

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102122\  
 Data File : VW028671.D  
 Acq On : 21 Oct 2022 19:08  
 Operator : SY/MD  
 Sample : N5216-17  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BHA79

Quant Time: Oct 21 23:05:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR102022WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 21 22:58:36 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |                | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|-----------|----------------|----------|--------|----------|----------|
| -----                         |           |                |          |        |          |          |
| Internal Standards            |           |                |          |        |          |          |
| 1) 1,4-Difluorobenzene        | 5.616     | 114            | 171066   | 5.000  | ug/L     | 0.02     |
| 28) Chlorobenzene-d5          | 8.847     | 117            | 161319   | 5.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.242    | 152            | 71197    | 5.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |           |                |          |        |          |          |
| 4) Vinyl Chloride-d3          | 1.304     | 65             | 86706    | 5.120  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 40 - 130 | Recovery | =      | 102.400% |          |
| 7) Chloroethane-d5            | 1.564     | 69             | 76131    | 5.719  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 65 - 130 | Recovery | =      | 114.400% |          |
| 11) 1,1-Dichloroethene-d2     | 2.104     | 63             | 124491   | 4.230  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 60 - 125 | Recovery | =      | 84.600%  |          |
| 20) 2-Butanone-d5             | 3.886     | 46             | 93718    | 29.400 | ug/L     | -0.06    |
| Spiked Amount                 | 50.000    | Range 40 - 130 | Recovery | =      | 58.800%  |          |
| 24) Chloroform-d              | 4.342     | 84             | 127382   | 5.071  | ug/L     | 0.01     |
| Spiked Amount                 | 5.000     | Range 70 - 125 | Recovery | =      | 101.400% |          |
| 26) 1,2-Dichloroethane-d4     | 5.030     | 65             | 59976    | 4.408  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 130 | Recovery | =      | 88.200%  |          |
| 32) Benzene-d6                | 5.046     | 84             | 258586   | 3.684  | ug/L     | 0.02     |
| Spiked Amount                 | 5.000     | Range 70 - 125 | Recovery | =      | 73.600%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.066     | 67             | 83202    | 3.780  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 60 - 140 | Recovery | =      | 75.600%  |          |
| 41) Toluene-d8                | 7.310     | 98             | 214557   | 4.227  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 70 - 130 | Recovery | =      | 84.600%  |          |
| 43) trans-1,3-Dichloroprop... | 7.622     | 79             | 19706    | 3.688  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 55 - 130 | Recovery | =      | 73.800%  |          |
| 46) 2-Hexanone-d5             | 8.088     | 63             | 112712   | 50.808 | ug/L     | -0.02    |
| Spiked Amount                 | 50.000    | Range 45 - 130 | Recovery | =      | 101.620% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.210    | 84             | 50576    | 4.865  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 65 - 120 | Recovery | =      | 97.400%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.615    | 152            | 64552    | 5.044  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000     | Range 80 - 120 | Recovery | =      | 100.800% |          |
| Target Compounds              |           |                |          |        |          |          |
|                               |           |                |          |        | Qvalue   |          |
| 3) Chloromethane              | 1.240     | 50             | 956      | 0.058  | ug/L #   | 69       |
| 5) Vinyl chloride             | 1.307     | 62             | 814      | 0.051  | ug/L #   | 1        |
| 6) Bromomethane               | 1.523     | 94             | 909      | 0.117  | ug/L     | 83       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.108     | 101            | 1192     | 0.102  | ug/L #   | 27       |
| 17) Methyl tert-butyl Ether   | 2.764     | 73             | 32778    | 1.086  | ug/L     | 96       |
| 25) Chloroform                | 4.371     | 83             | 67301    | 2.526  | ug/L     | 96       |
| 33) Benzene                   | 5.104     | 78             | 9881     | 0.131  | ug/L     | 100      |
| 35) Methylcyclohexane         | 6.066     | 83             | 18381    | 0.670  | ug/L #   | 15       |
| 37) 1,2-Dichloropropane       | 6.063     | 63             | 9754     | 0.482  | ug/L #   | 90       |
| 44) trans-1,3-Dichloropropene | 7.612     | 75             | 1358     | 0.092  | ug/L     | 83       |
| 47) Tetrachloroethene         | 7.976     | 164            | 534      | 0.057  | ug/L     | 96       |
| 51) Chlorobenzene             | 8.879     | 112            | 26740    | 0.730  | ug/L     | 95       |
| 60) Isopropylbenzene          | 9.927     | 105            | 2946     | 0.050  | ug/L #   | 83       |
| 61) 1,2,3-Trichloropropane    | 11.239    | 75             | 11512    | 1.492  | ug/L #   | 71       |
| 62) 1,3,5-Trimethylbenzene    | 10.535    | 105            | 528      | 0.031  | ug/L     | 87       |
| 71) Naphthalene               | 13.500    | 128            | 3330     | 0.149  | ug/L #   | 92       |
| -----                         |           |                |          |        |          |          |

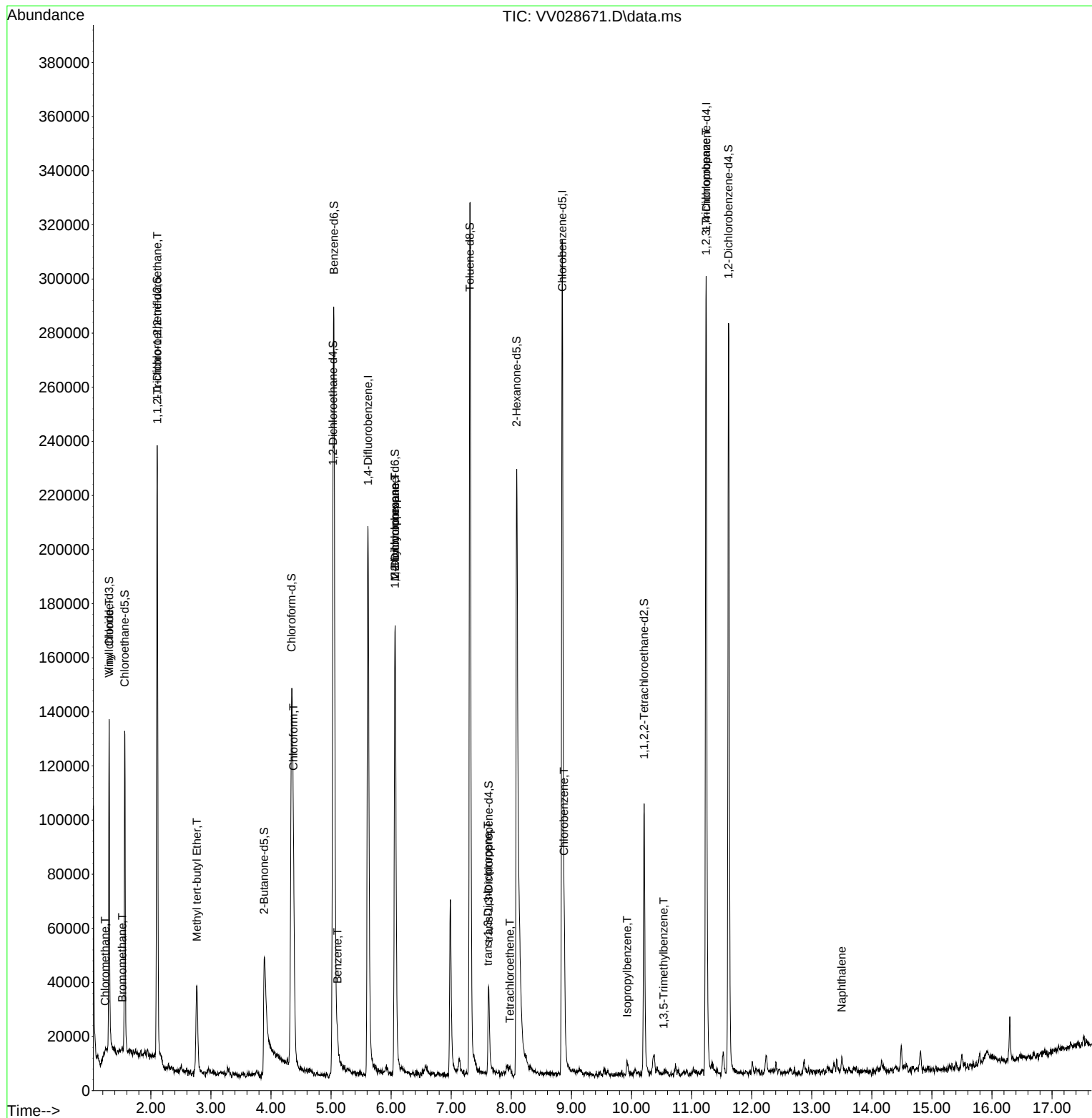
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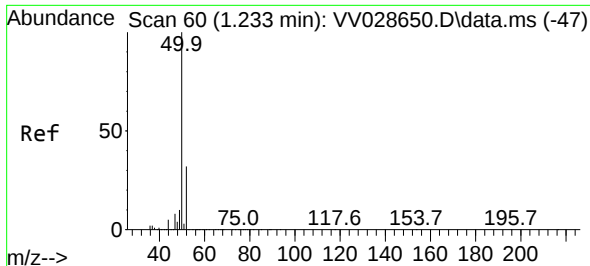
**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
BHA79

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102122\  
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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Oct 21 22:58:36 2022  
Response via : Initial Calibration

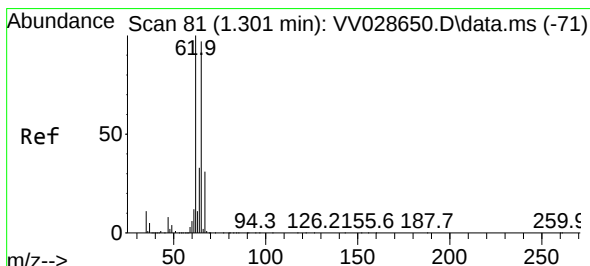
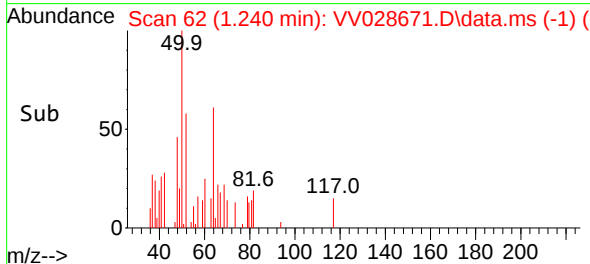
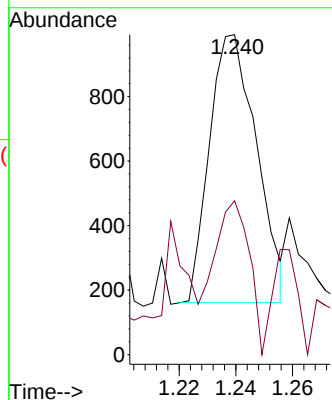
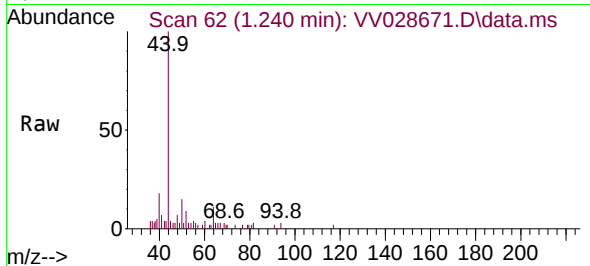




#3  
Chloromethane  
Concen: 0.058 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

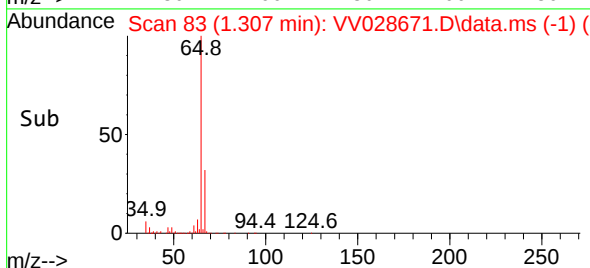
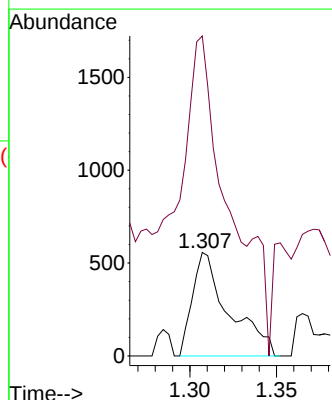
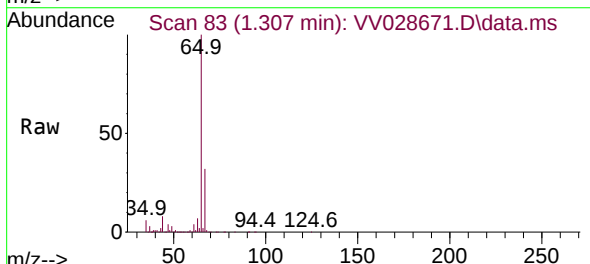
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHA79

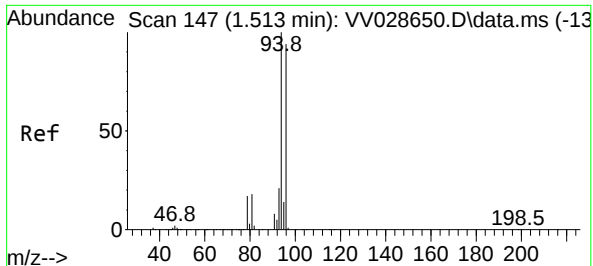
Tgt Ion: 50 Resp: 956  
Ion Ratio Lower Upper  
50 100  
52 48.1 21.8 40.6#



#5  
Vinyl chloride  
Concen: 0.051 ug/L  
RT: 1.307 min Scan# 83  
Delta R.T. 0.006 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

Tgt Ion: 62 Resp: 814  
Ion Ratio Lower Upper  
62 100  
64 309.3 22.0 41.0#

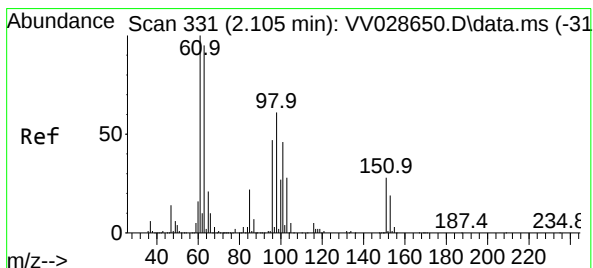
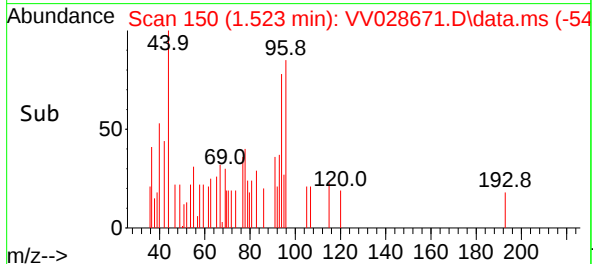
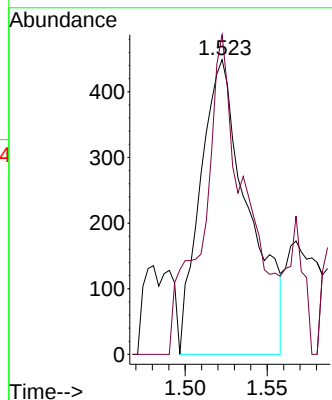
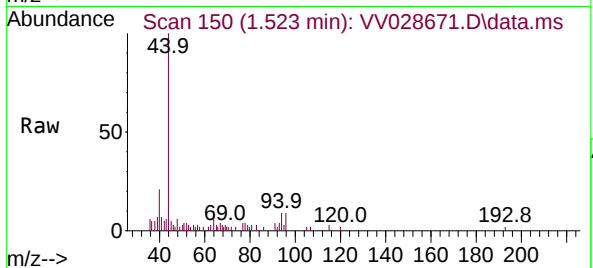




#6  
Bromomethane  
Concen: 0.117 ug/L  
RT: 1.523 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

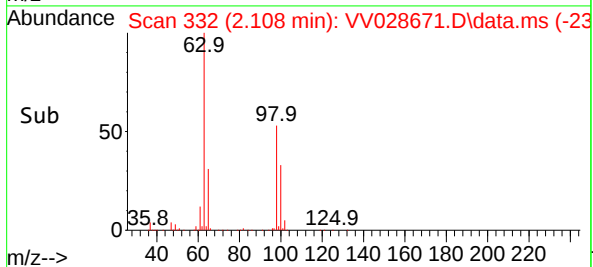
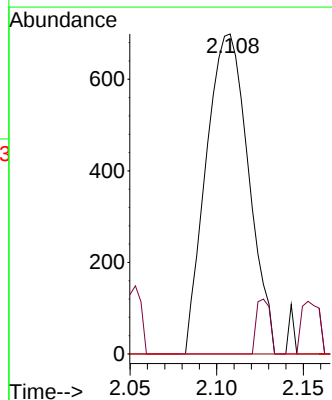
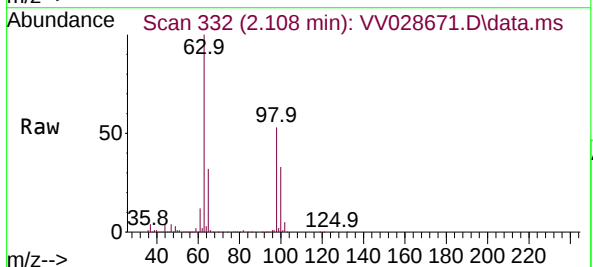
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHA79

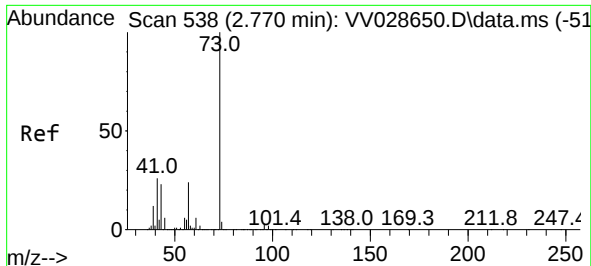
Tgt Ion: 94 Resp: 909  
Ion Ratio Lower Upper  
94 100  
96 108.5 64.3 119.3



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.102 ug/L  
RT: 2.108 min Scan# 332  
Delta R.T. 0.003 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

Tgt Ion:101 Resp: 1192  
Ion Ratio Lower Upper  
101 100  
85 5.5 37.0 55.6#  
151 0.0 50.2 75.2#





#17

Methyl tert-butyl Ether

Concen: 1.086 ug/L

RT: 2.764 min Scan# 51

Delta R.T. -0.007 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

Instrument :

MSVOA\_V

ClientSampleId :

BHA79

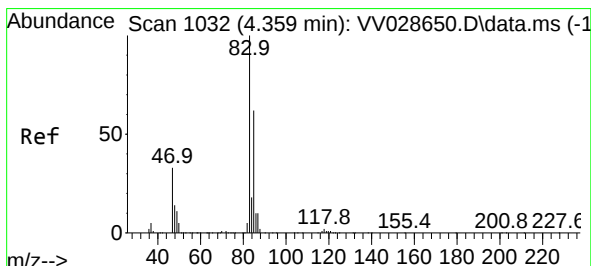
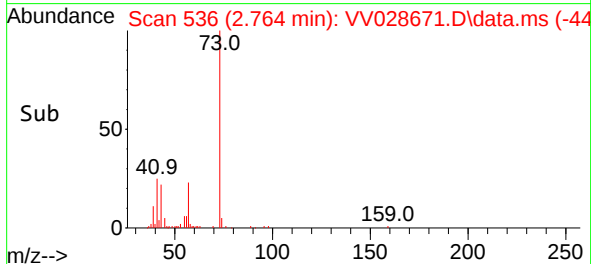
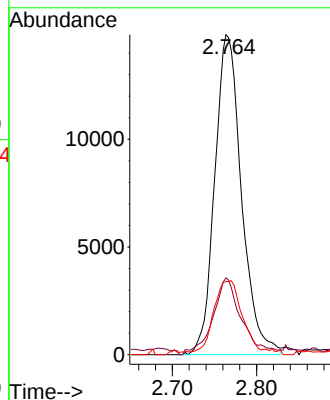
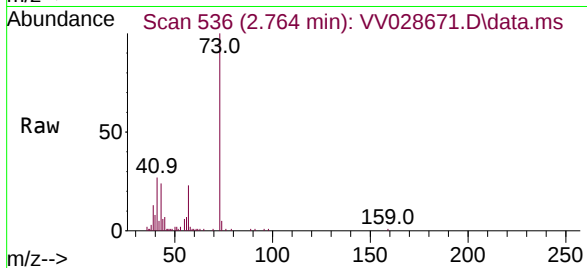
Tgt Ion: 73 Resp: 32778

Ion Ratio Lower Upper

73 100

43 25.6 18.0 27.0

57 25.6 20.0 30.0



#25

Chloroform

Concen: 2.526 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. 0.013 min

Lab File: VV028671.D

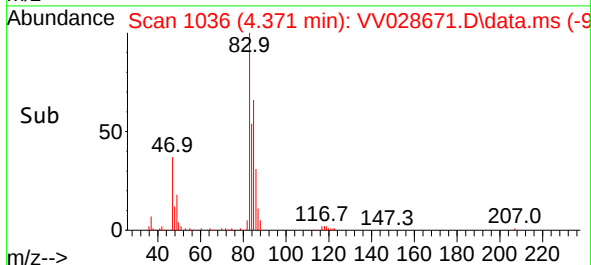
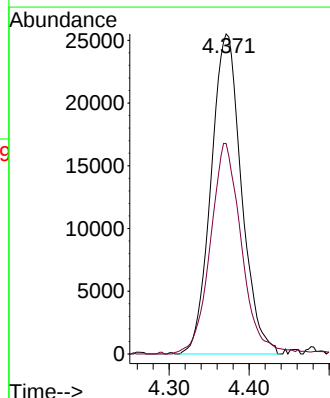
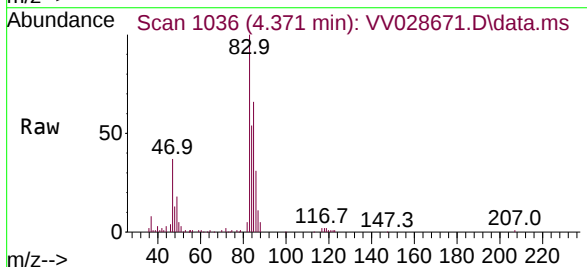
Acq: 21 Oct 2022 19:08

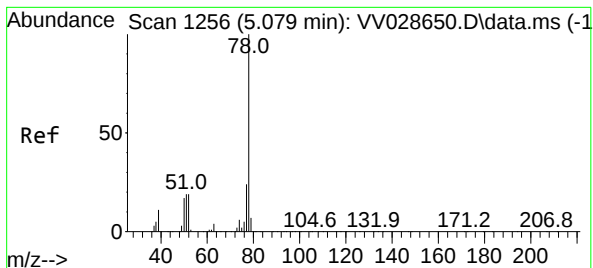
Tgt Ion: 83 Resp: 67301

Ion Ratio Lower Upper

83 100

85 65.7 44.1 81.9





#33

Benzene

Concen: 0.131 ug/L

RT: 5.104 min Scan# 1

Delta R.T. 0.026 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

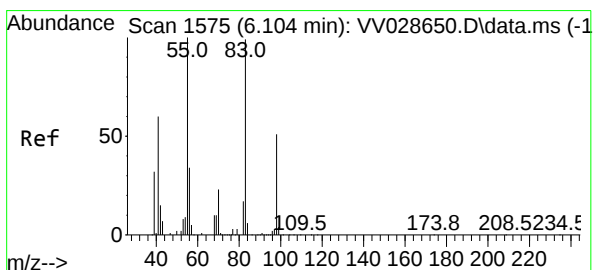
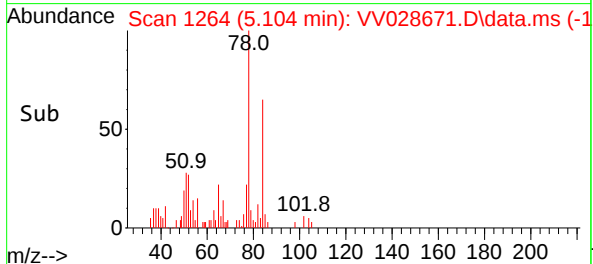
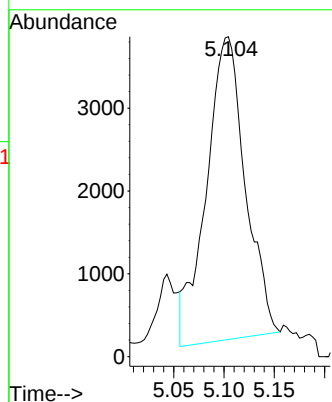
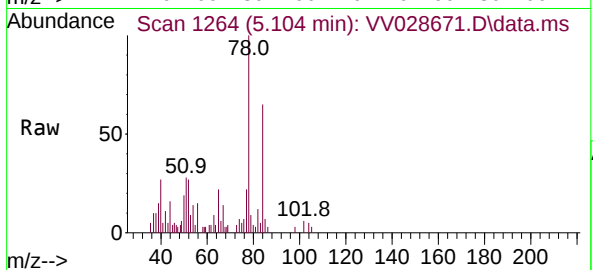
Instrument :

MSVOA\_V

ClientSampleId :

BHA79

Tgt Ion: 78 Resp: 9881



#35

Methylcyclohexane

Concen: 0.670 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.039 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

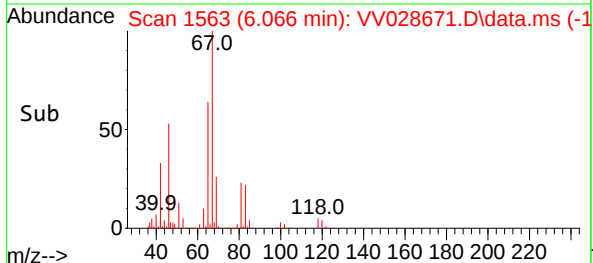
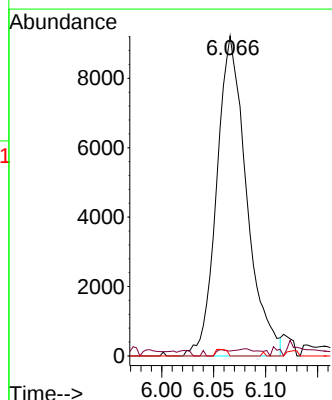
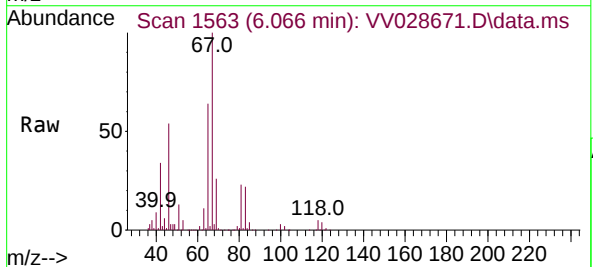
Tgt Ion: 83 Resp: 18381

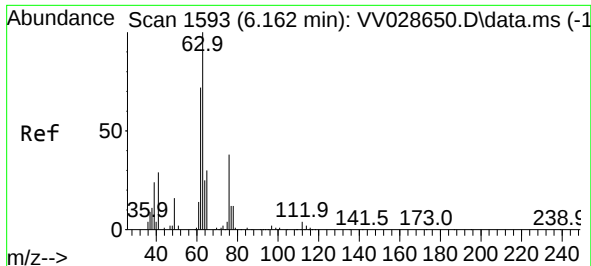
Ion Ratio Lower Upper

83 100

55 0.8 70.0 105.0#

98 0.8 35.6 53.4#





#37

1,2-Dichloropropane

Concen: 0.482 ug/L

RT: 6.063 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

Instrument :

MSVOA\_V

ClientSampleId :

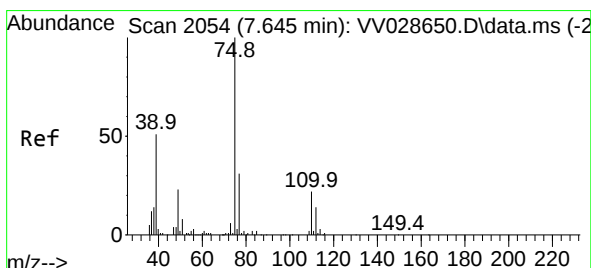
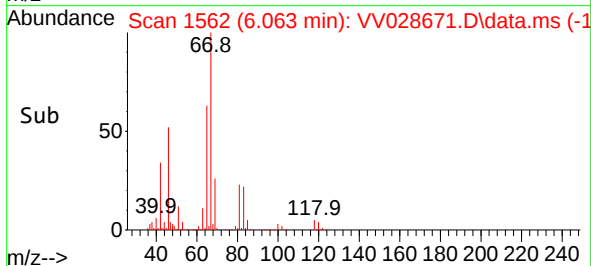
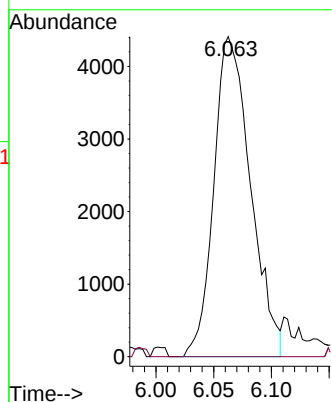
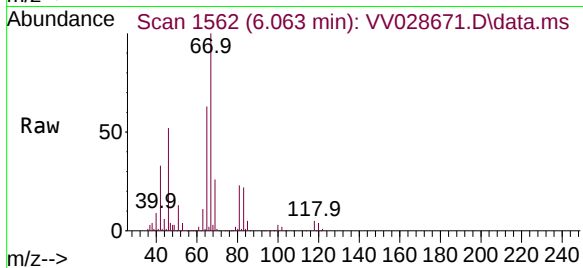
BHA79

Tgt Ion: 63 Resp: 9754

Ion Ratio Lower Upper

63 100

112 0.9 3.4 5.2#



#44

trans-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.612 min Scan# 2044

Delta R.T. -0.032 min

Lab File: VV028671.D

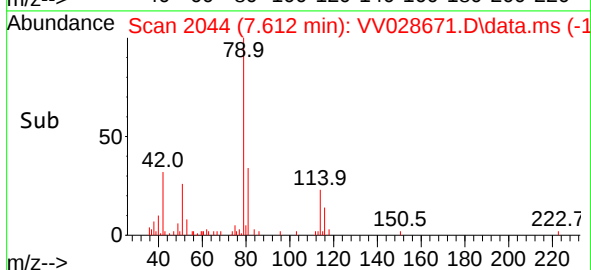
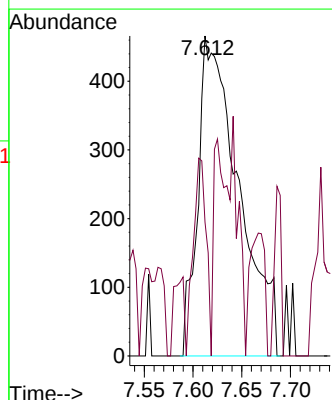
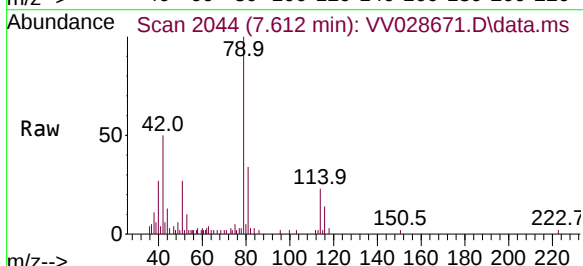
Acq: 21 Oct 2022 19:08

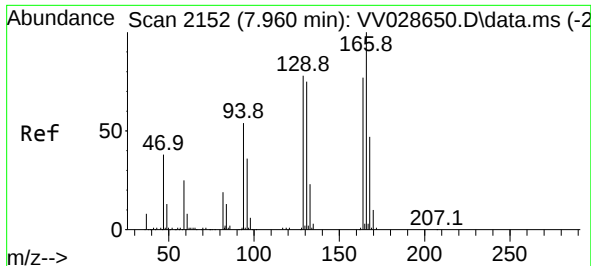
Tgt Ion: 75 Resp: 1358

Ion Ratio Lower Upper

75 100

77 41.8 22.6 42.0





#47

Tetrachloroethene

Concen: 0.057 ug/L

RT: 7.976 min Scan# 2152

Delta R.T. 0.016 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

Instrument :

MSVOA\_V

ClientSampleId :

BHA79

Tgt Ion:164 Resp: 534

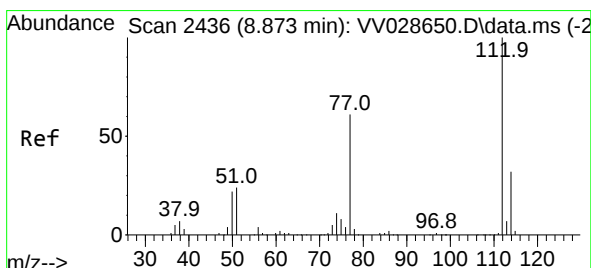
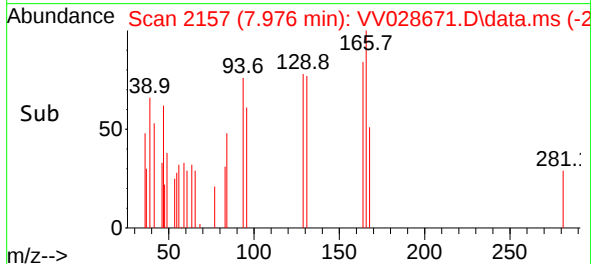
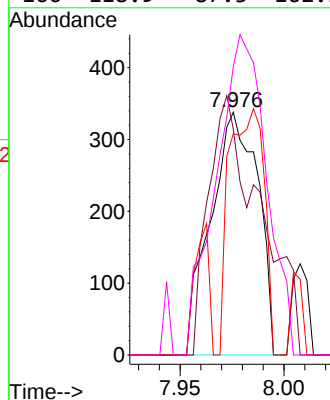
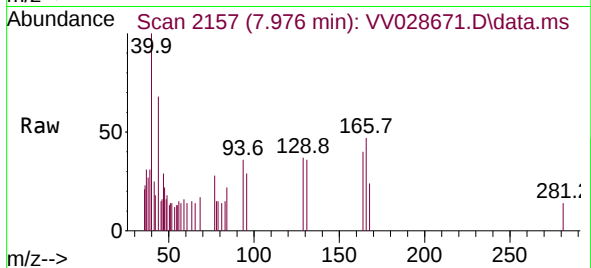
Ion Ratio Lower Upper

164 100

129 92.9 69.2 128.6

131 91.1 64.2 119.2

166 118.9 87.3 162.1



#51

Chlorobenzene

Concen: 0.730 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.006 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

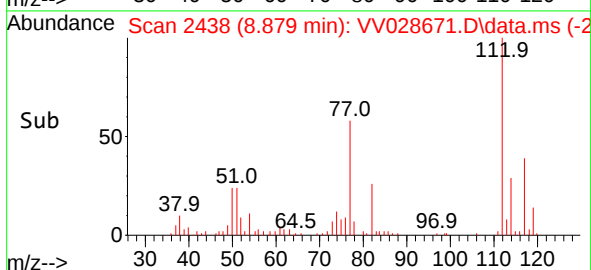
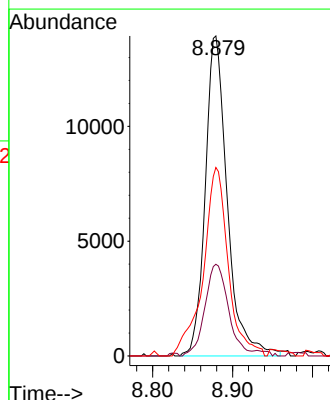
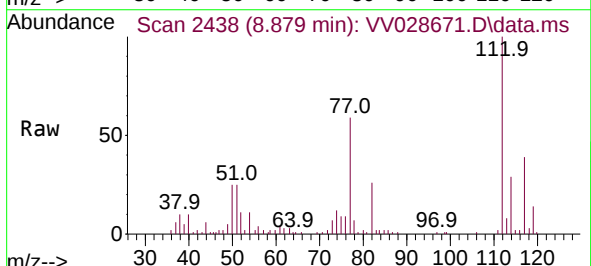
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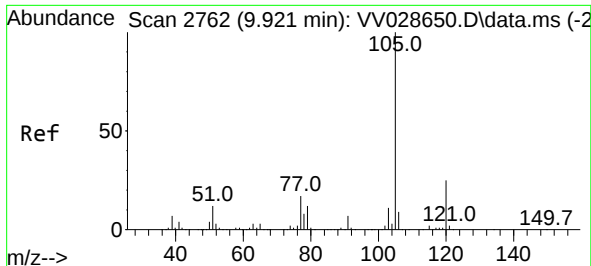
Ion Ratio Lower Upper

112 100

114 28.7 22.0 41.0

77 58.9 50.0 75.0

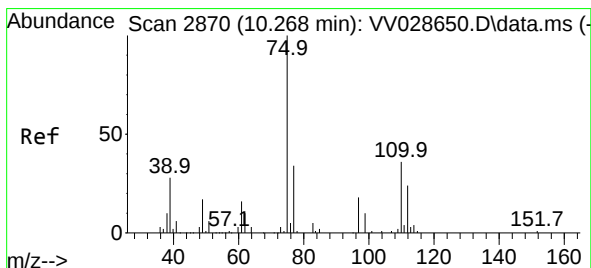
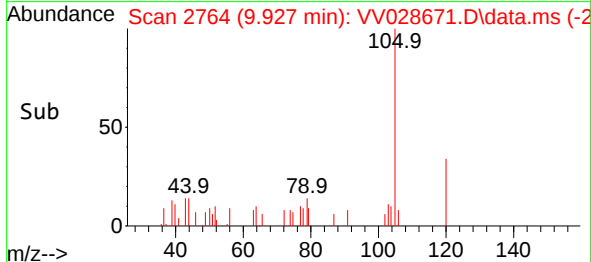
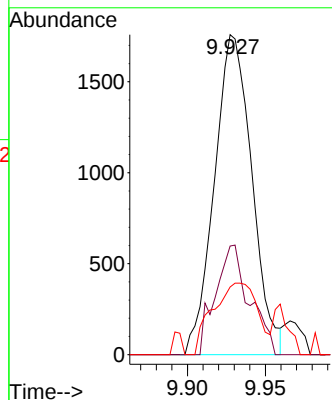
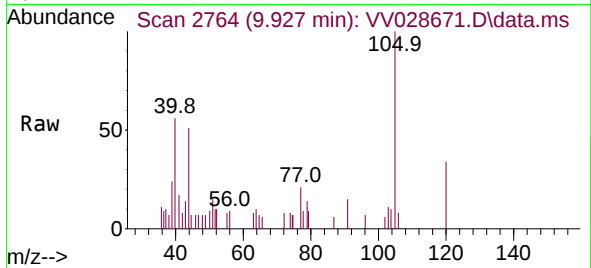




#60  
Isopropylbenzene  
Concen: 0.050 ug/L  
RT: 9.927 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

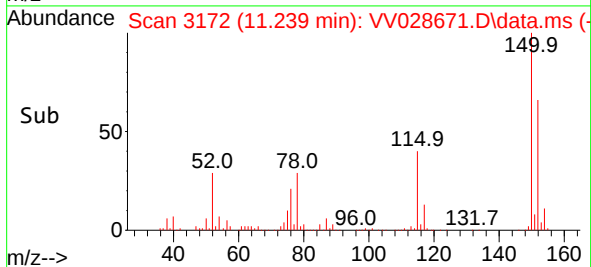
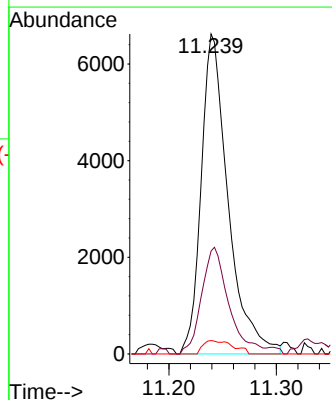
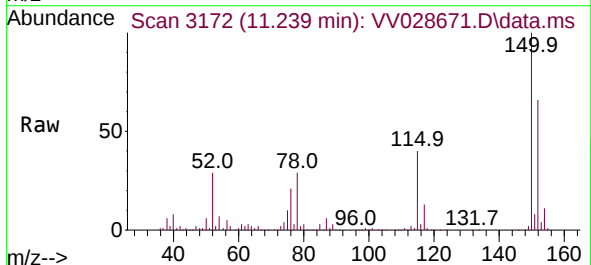
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHA79

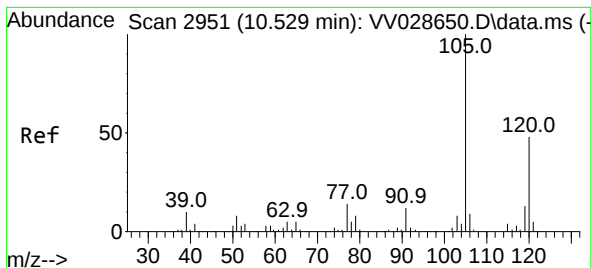
Tgt Ion:105 Resp: 2946  
Ion Ratio Lower Upper  
105 100  
120 31.1 20.1 30.1#  
77 26.9 13.4 20.0#



#61  
1,2,3-Trichloropropane  
Concen: 1.492 ug/L  
RT: 11.239 min Scan# 3172  
Delta R.T. 0.971 min  
Lab File: VV028671.D  
Acq: 21 Oct 2022 19:08

Tgt Ion: 75 Resp: 11512  
Ion Ratio Lower Upper  
75 100  
77 33.7 25.2 37.8  
110 4.6 27.9 41.9#





#62

1,3,5-Trimethylbenzene

Concen: 0.031 ug/L

RT: 10.535 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

Instrument :

MSVOA\_V

ClientSampleId :

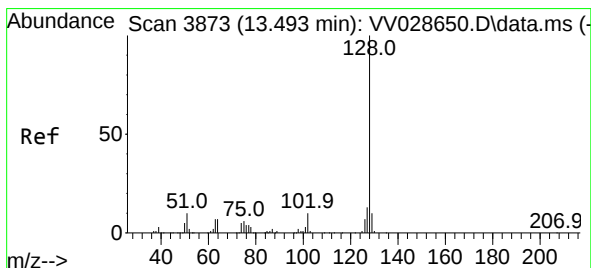
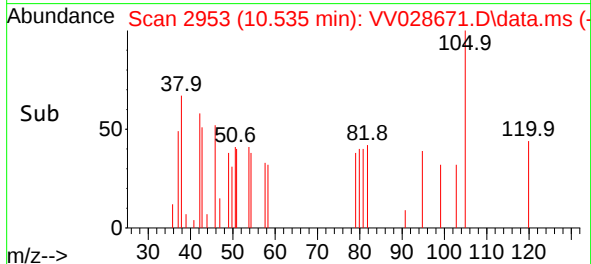
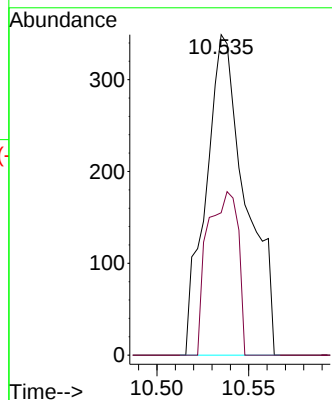
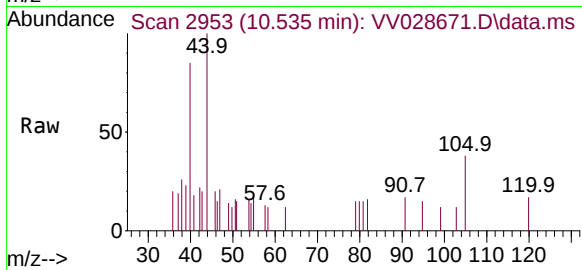
BHA79

Tgt Ion:105 Resp: 528

Ion Ratio Lower Upper

105 100

120 39.0 38.3 57.5



#71

Naphthalene

Concen: 0.149 ug/L

RT: 13.500 min Scan# 3875

Delta R.T. 0.006 min

Lab File: VV028671.D

Acq: 21 Oct 2022 19:08

Tgt Ion:128 Resp: 3330

Ion Ratio Lower Upper

128 100

129 14.8 8.9 13.3#

127 15.0 10.2 15.4

