

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110221\  
 Data File : VY006590.D  
 Acq On : 02 Nov 2021 20:34  
 Operator : SY/MD  
 Sample : M4427-07  
 Misc : 2.34G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 03 01:52:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

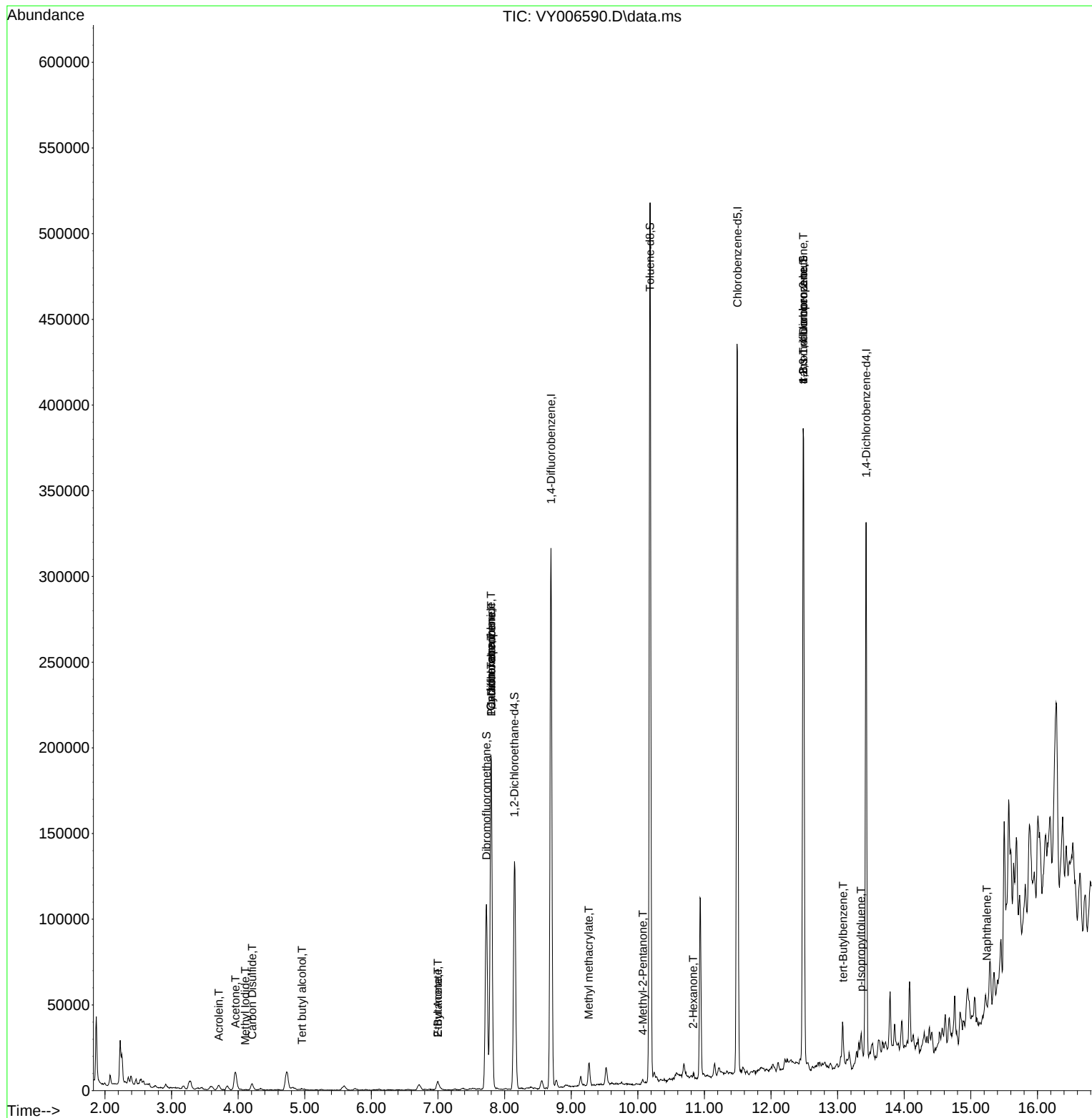
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.801  | 168   | 145110   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 245889   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 216157   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 72320    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 105928   | 59.321   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 118.640% |          |
| 35) Dibromofluoromethane      | 7.728  | 113   | 73815    | 53.859   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 107.720% |          |
| 50) Toluene-d8                | 10.185 | 98    | 311902   | 53.685   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | = 107.380% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 90833    | 46.412   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | = 92.820%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 10) Methyl Iodide             | 4.107  | 142   | 290      | 5.242    | ug/l #     | 36       |
| 11) Tert butyl alcohol        | 4.960  | 59    | 1376     | 8.482    | ug/l #     | 72       |
| 13) Acrolein                  | 3.710  | 56    | 115      | 1.025    | ug/l #     | 1        |
| 16) Acetone                   | 3.960  | 43    | 19295    | 37.526   | ug/l       | 94       |
| 17) Carbon Disulfide          | 4.210  | 76    | 6232     | 1.450    | ug/l       | 96       |
| 25) 2-Butanone                | 6.996  | 43    | 8182     | 12.146   | ug/l       | 93       |
| 31) Cyclohexane               | 7.795  | 56    | 3773     | 1.305    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.801  | 75    | 12070    | 4.968    | ug/l #     | 50       |
| 37) Ethyl Acetate             | 6.996  | 43    | 8182     | 5.321    | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 14379    | 5.365    | ug/l #     | 15       |
| 48) Methyl methacrylate       | 9.264  | 41    | 3873     | 2.802    | ug/l #     | 51       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43    | 1911     | 1.222    | ug/l       | 93       |
| 59) 2-Hexanone                | 10.831 | 43    | 1808     | 1.598    | ug/l       | 96       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 51944    | 69.701   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 51944    | 143.094  | ug/l #     | 7        |
| 83) tert-Butylbenzene         | 13.081 | 119   | 8865     | 2.435    | ug/l       | 95       |
| 86) p-Isopropyltoluene        | 13.349 | 119   | 10760    | 2.308    | ug/l #     | 68       |
| 95) Naphthalene               | 15.239 | 128   | 3432     | 1.266    | ug/l #     | 83       |
| -----                         |        |       |          |          |            |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

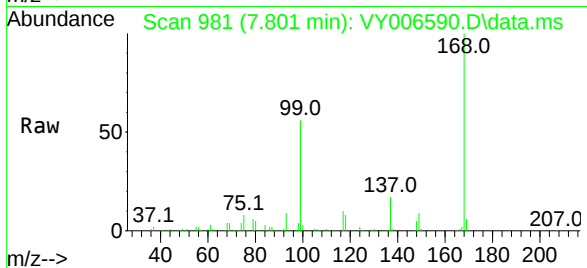
Quant Time: Nov 03 01:52:38 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 23 06:59:04 2021  
Response via : Initial Calibration



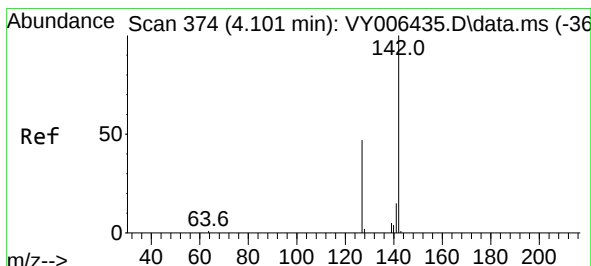
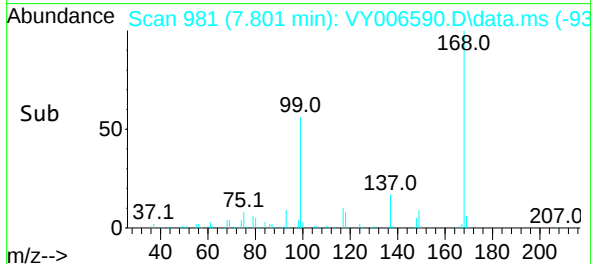
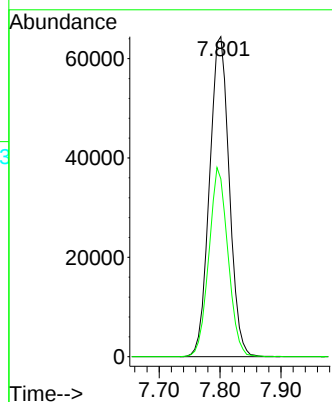


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Instrument :  
MSVOA\_N  
ClientSampleId :

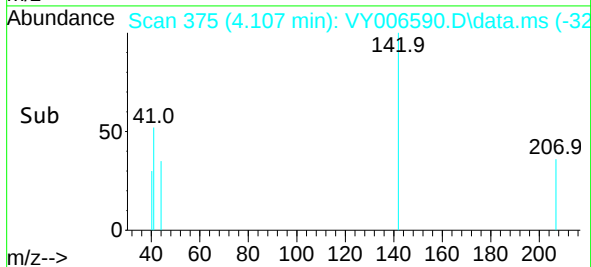
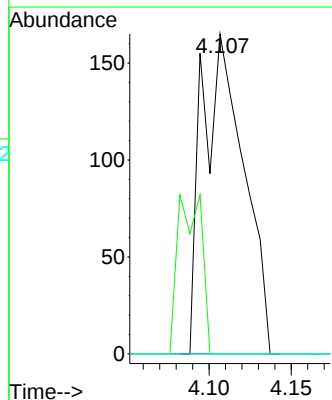
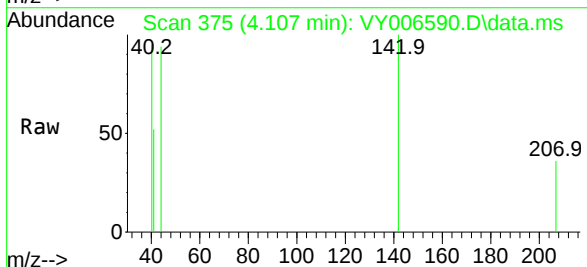


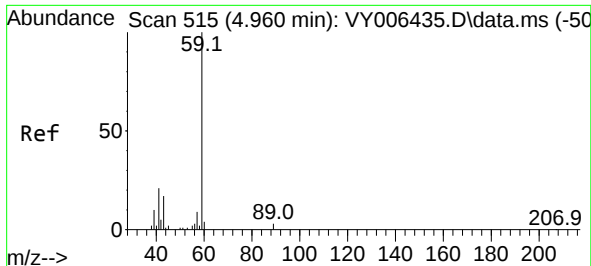
Tgt Ion:168 Resp: 145110  
Ion Ratio Lower Upper  
168 100  
99 55.5 44.8 67.2



#10  
Methyl Iodide  
Concen: 5.242 ug/l  
RT: 4.107 min Scan# 375  
Delta R.T. 0.006 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

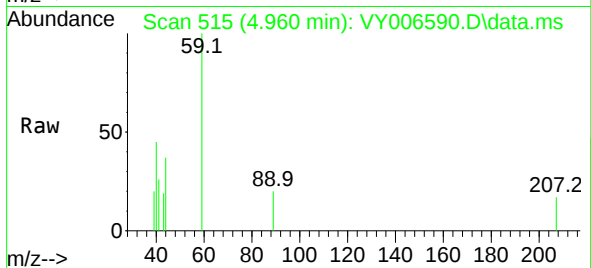
Tgt Ion:142 Resp: 290  
Ion Ratio Lower Upper  
142 100  
127 0.0 40.1 60.1#  
141 0.0 12.5 18.7#



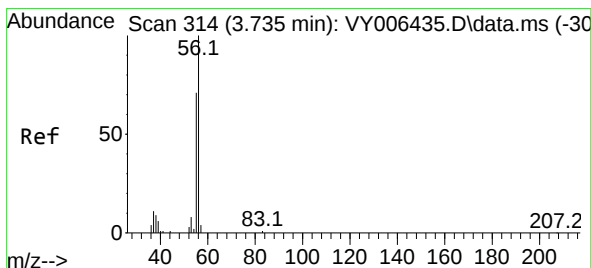
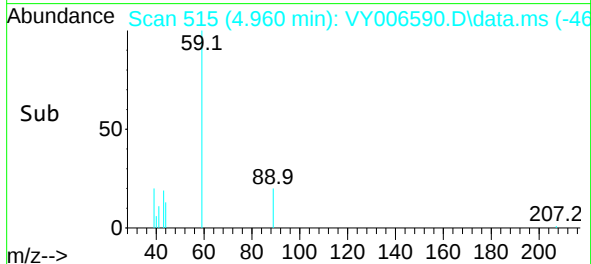
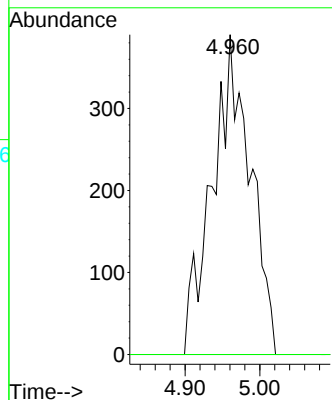


#11  
Tert butyl alcohol  
Concen: 8.482 ug/l  
RT: 4.960 min Scan# 515  
Delta R.T. 0.000 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Instrument :  
MSVOA\_N  
ClientSampleId :

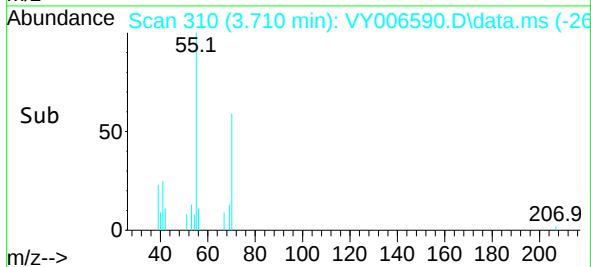
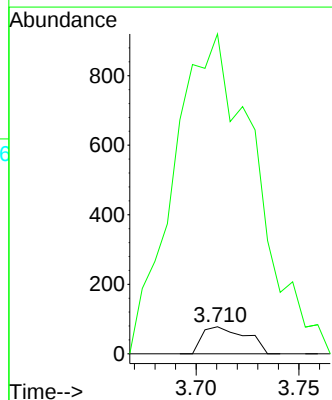
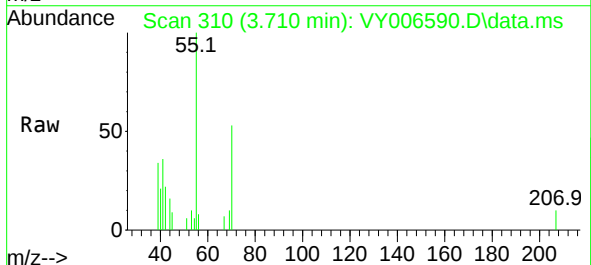


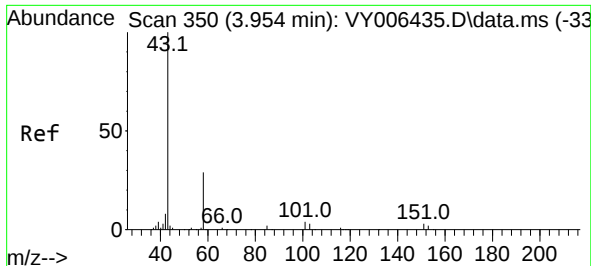
Tgt Ion: 59 Resp: 1376  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: 1.025 ug/l  
RT: 3.710 min Scan# 310  
Delta R.T. -0.024 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Tgt Ion: 56 Resp: 115  
Ion Ratio Lower Upper  
56 100  
55 2216.5 57.1 85.7#





#16

Acetone

Concen: 37.526 ug/l

RT: 3.960 min Scan# 351

Delta R.T. 0.006 min

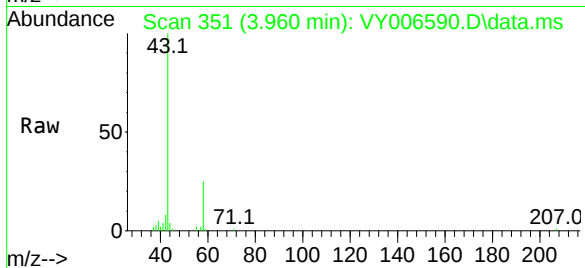
Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

Instrument :

MSVOA\_N

ClientSampleId :

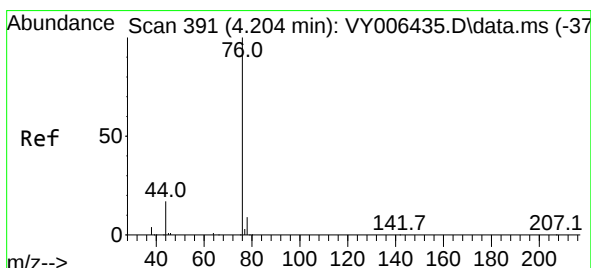
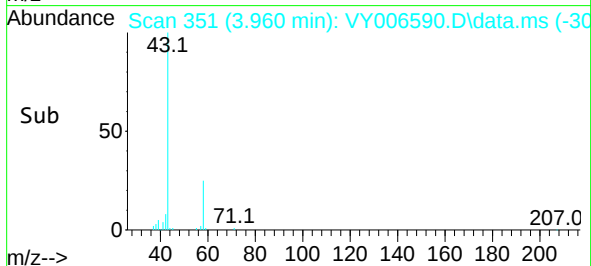
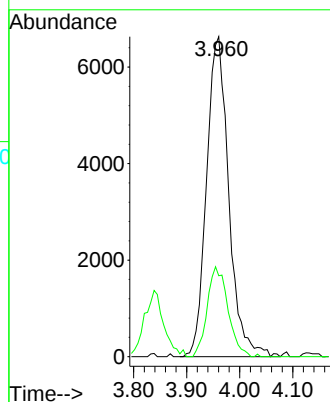


Tgt Ion: 43 Resp: 19295

Ion Ratio Lower Upper

43 100

58 25.3 22.9 34.3



#17

Carbon Disulfide

Concen: 1.450 ug/l

RT: 4.210 min Scan# 392

Delta R.T. 0.006 min

Lab File: VY006590.D

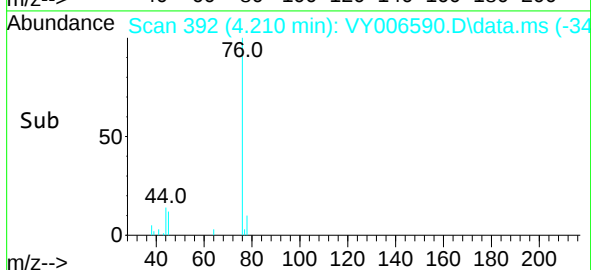
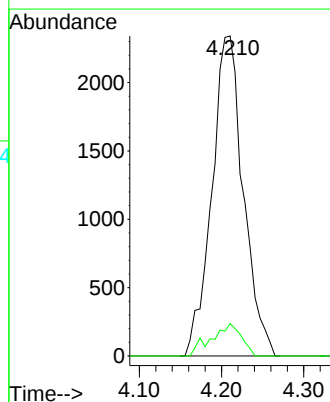
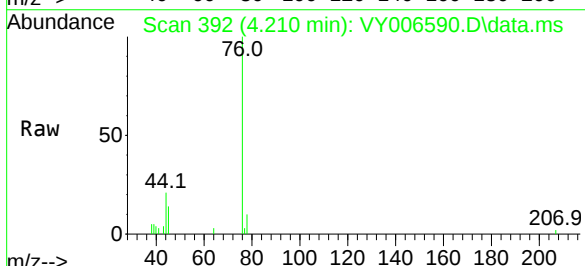
Acq: 02 Nov 2021 20:34

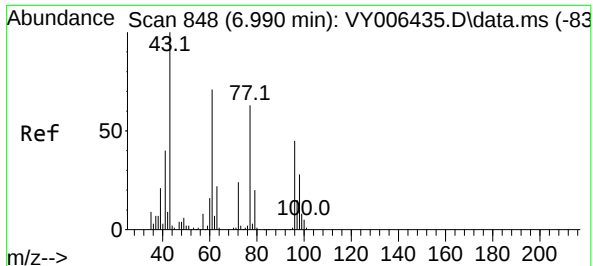
Tgt Ion: 76 Resp: 6232

Ion Ratio Lower Upper

76 100

78 10.2 7.1 10.7





#25

2-Butanone

Concen: 12.146 ug/l

RT: 6.996 min Scan# 84

Delta R.T. 0.006 min

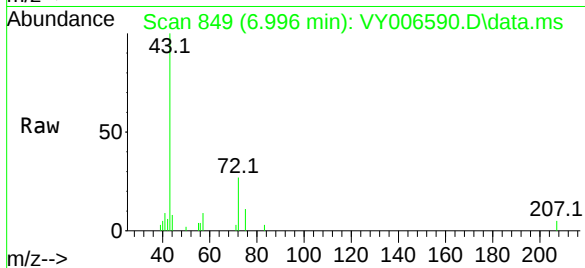
Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

Instrument :

MSVOA\_N

ClientSampleId :

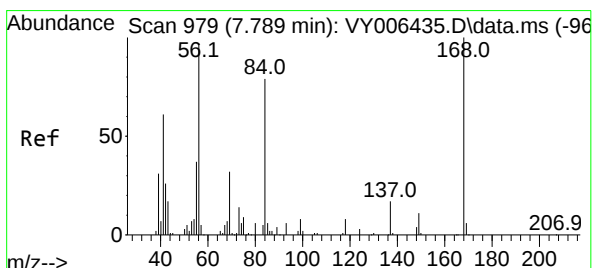
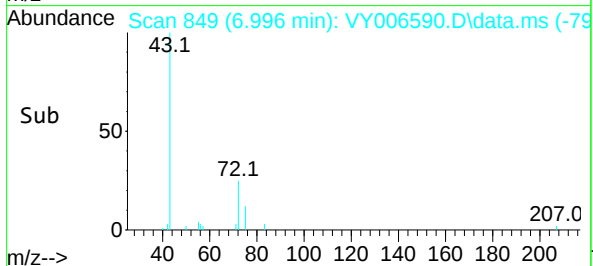
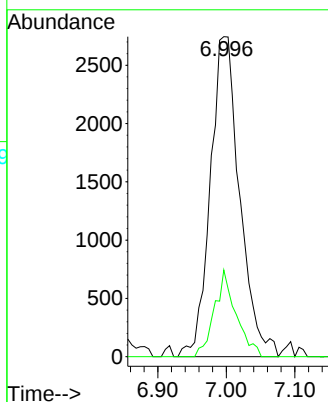


Tgt Ion: 43 Resp: 8182

Ion Ratio Lower Upper

43 100

72 27.1 18.9 28.3



#31

Cyclohexane

Concen: 1.305 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

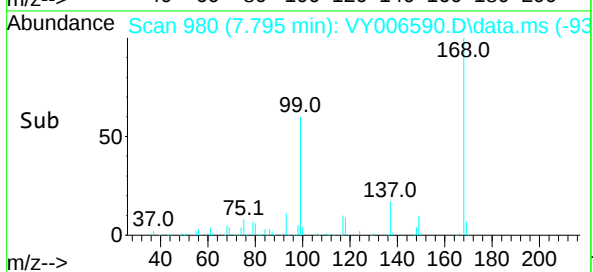
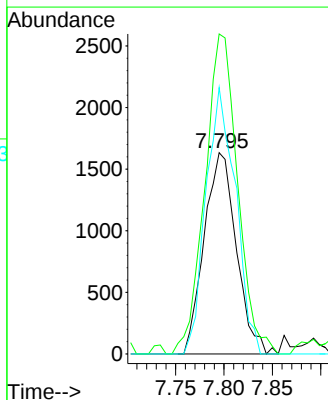
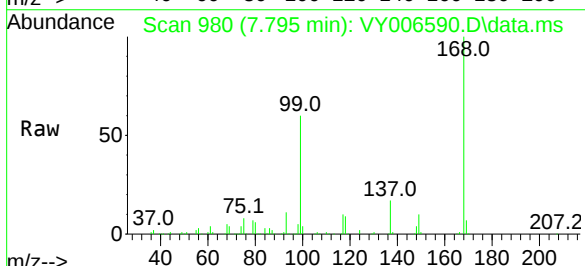
Tgt Ion: 56 Resp: 3773

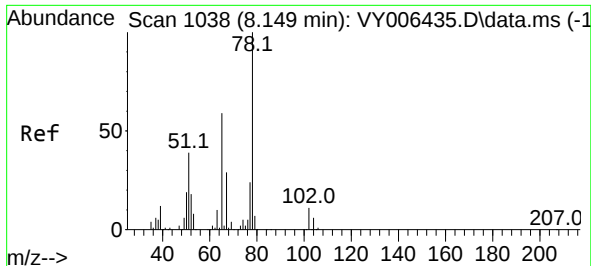
Ion Ratio Lower Upper

56 100

69 159.0 26.6 40.0#

84 132.4 65.0 97.4#





#33

1,2-Dichloroethane-d4

Concen: 59.321 ug/l

RT: 8.149 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

Instrument :

MSVOA\_N

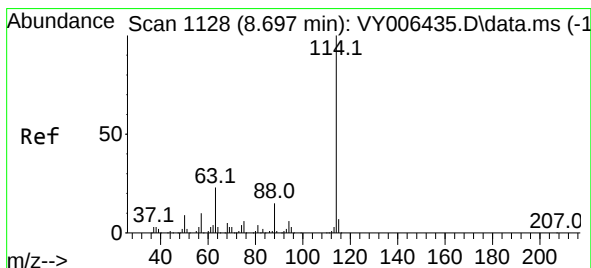
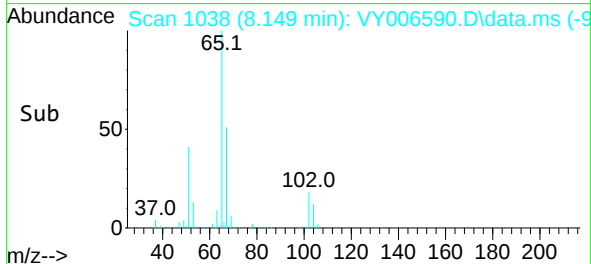
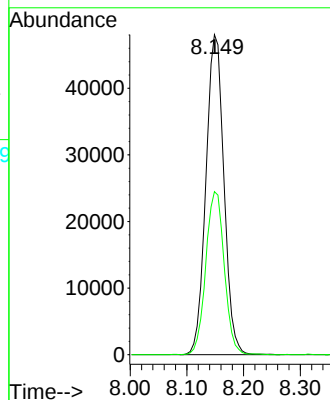
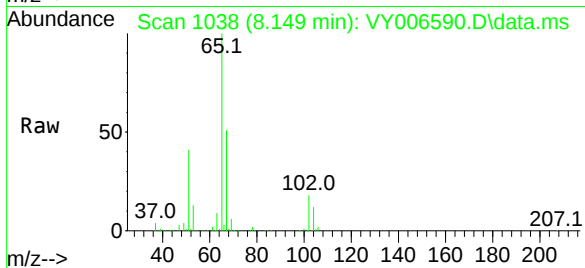
ClientSampleId :

Tgt Ion: 65 Resp: 105928

Ion Ratio Lower Upper

65 100

67 52.4 0.0 98.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

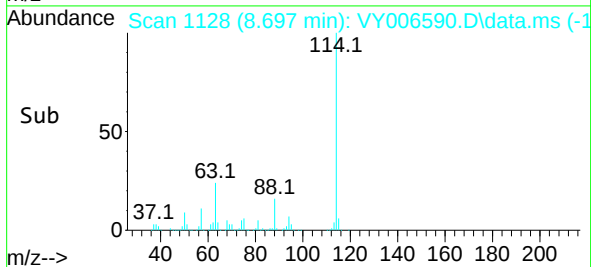
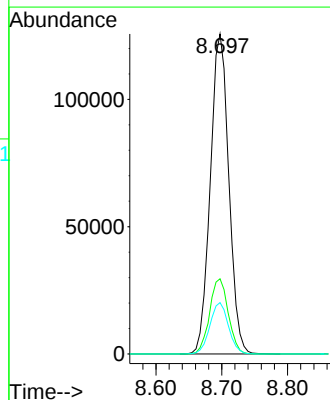
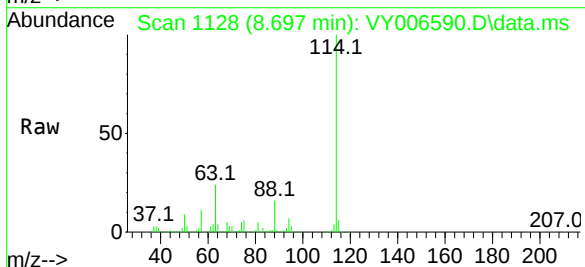
Tgt Ion: 114 Resp: 245889

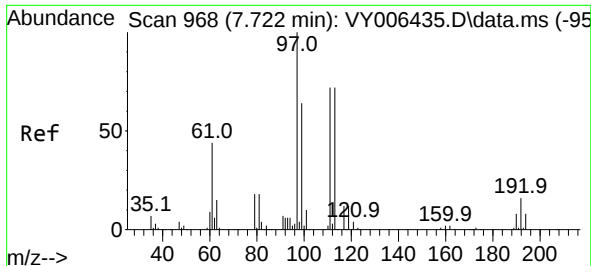
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.0

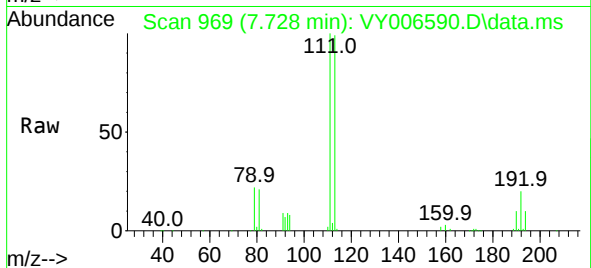
88 16.1 0.0 30.6



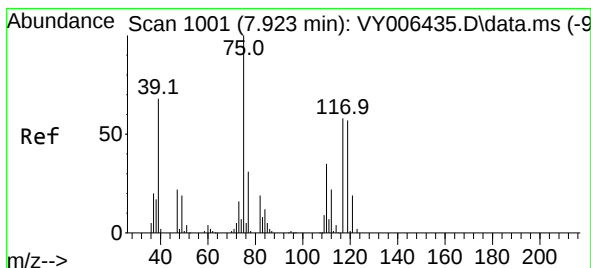
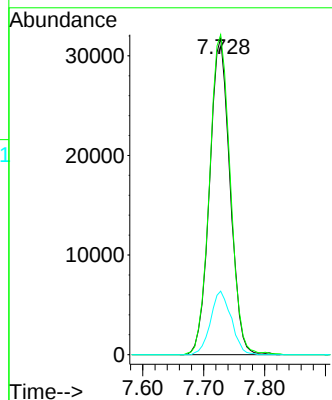
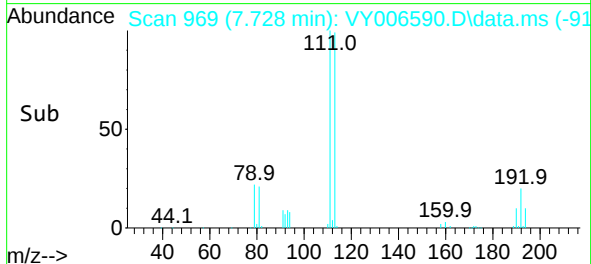


#35  
Dibromofluoromethane  
Concen: 53.859 ug/l  
RT: 7.728 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Instrument :  
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ClientSampleId :

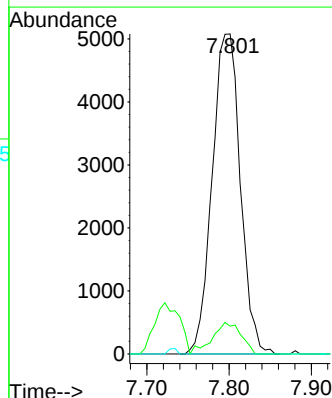
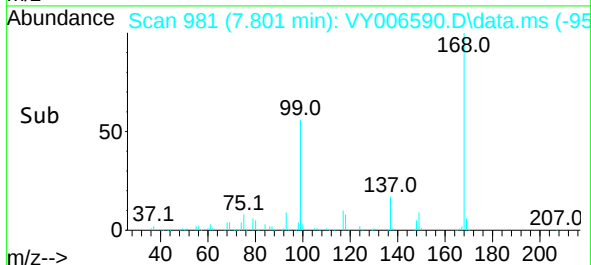
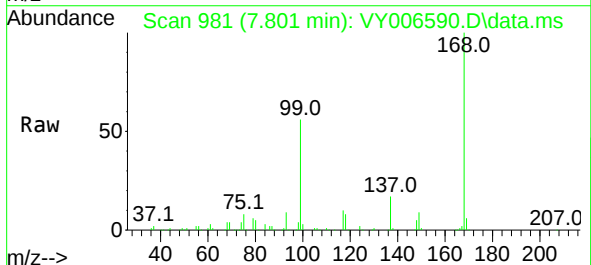


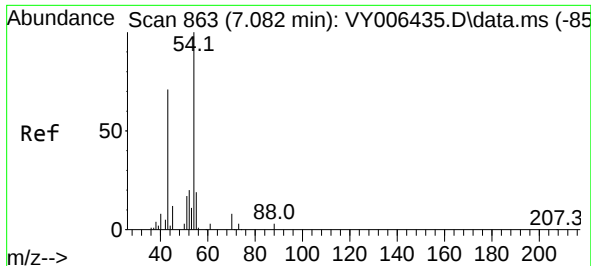
Tgt Ion:113 Resp: 73815  
Ion Ratio Lower Upper  
113 100  
111 103.2 82.3 123.5  
192 20.4 17.4 26.2



#36  
1,1-Dichloropropene  
Concen: 4.968 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.122 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Tgt Ion: 75 Resp: 12070  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.1 51.3#  
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 5.321 ug/l

RT: 6.996 min Scan# 84

Delta R.T. -0.085 min

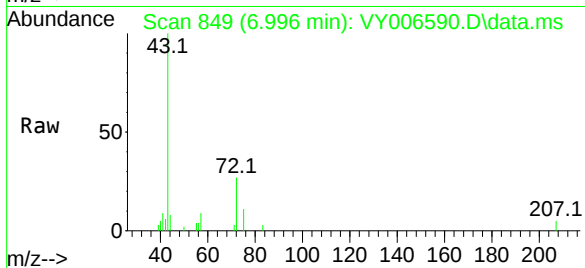
Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

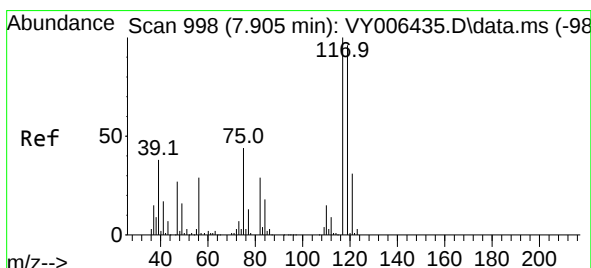
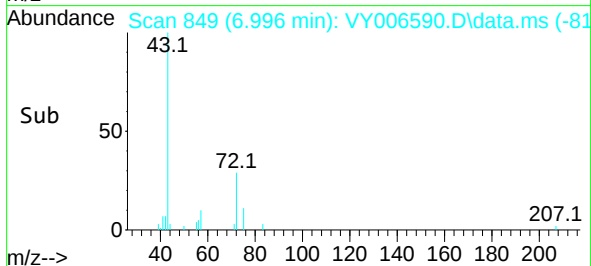
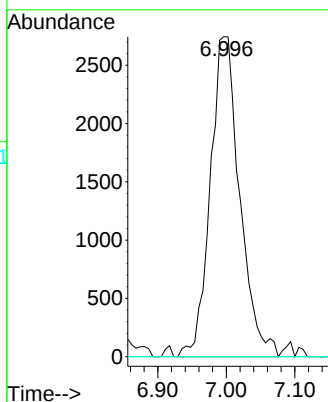
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8182  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 9.4   | 14.2# |
| 70       | 0.0   | 6.9   | 10.3# |



#38

Carbon Tetrachloride

Concen: 5.365 ug/l

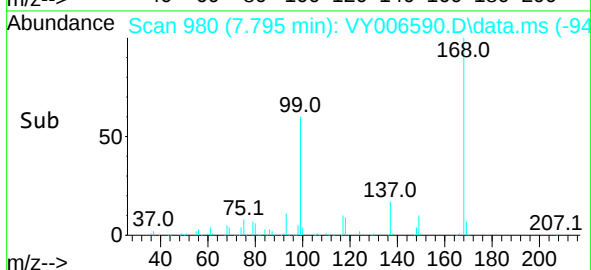
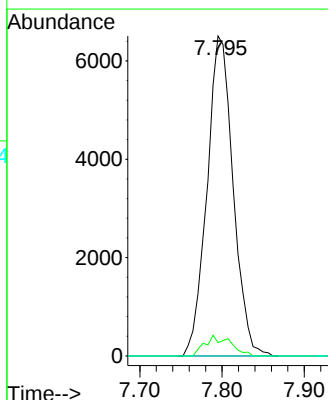
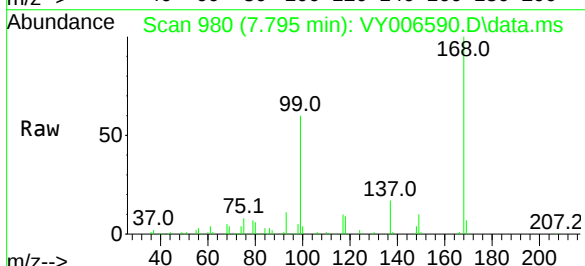
RT: 7.795 min Scan# 980

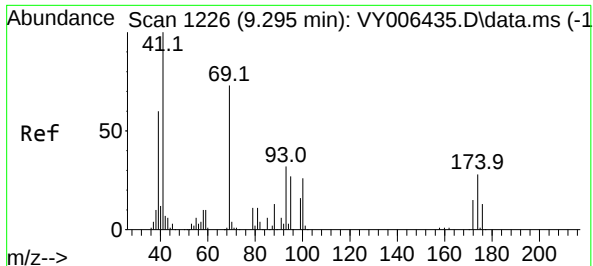
Delta R.T. -0.110 min

Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 14379  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.2   | 76.6  | 115.0# |
| 121      | 0.0   | 24.7  | 37.1#  |





#48

Methyl methacrylate

Concen: 2.802 ug/l

RT: 9.264 min Scan# 11

Delta R.T. -0.030 min

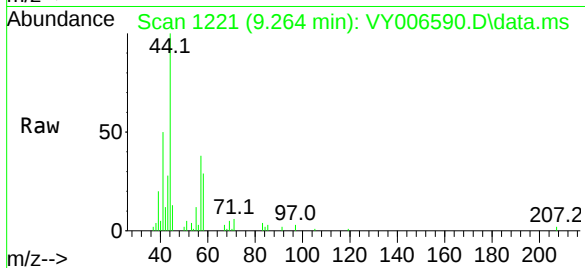
Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

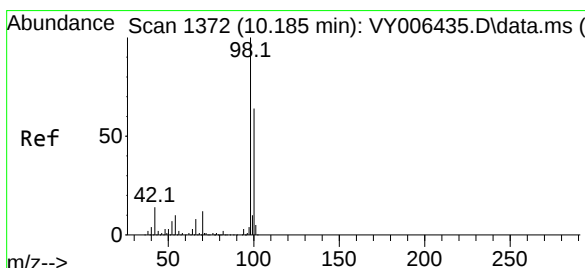
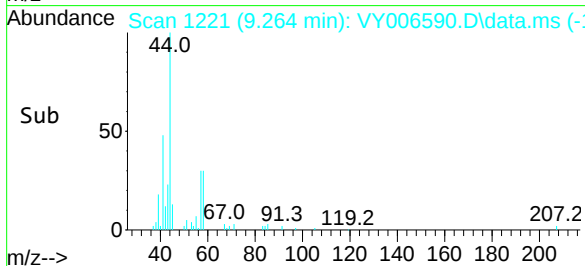
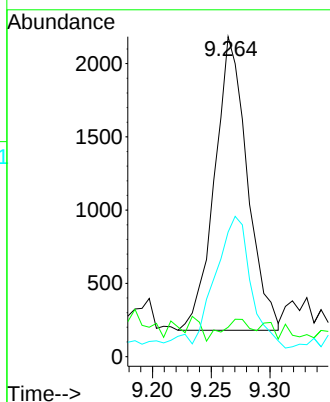
Instrument :

MSVOA\_N

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 41 | Resp: 3873     |
| Ion Ratio   | Lower Upper    |
| 41          | 100            |
| 69          | 6.5 60.4 90.6# |
| 39          | 53.2 48.2 72.2 |



#50

Toluene-d8

Concen: 53.685 ug/l

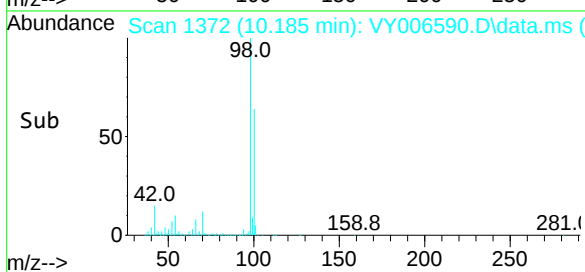
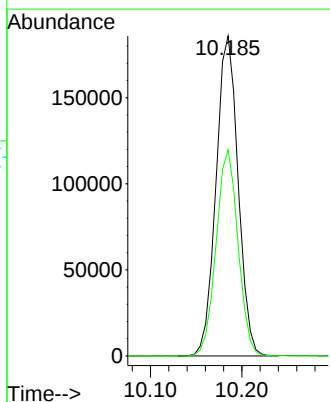
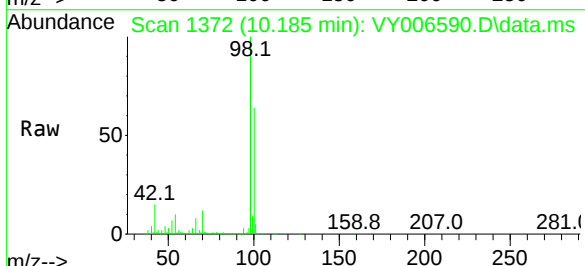
RT: 10.185 min Scan# 1372

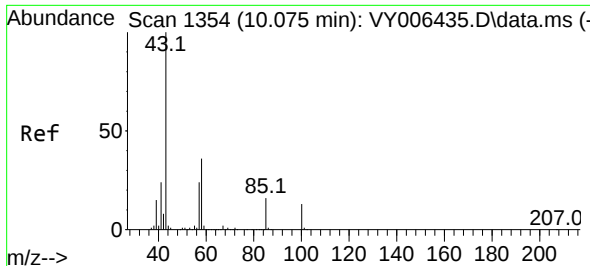
Delta R.T. 0.000 min

Lab File: VY006590.D

Acq: 02 Nov 2021 20:34

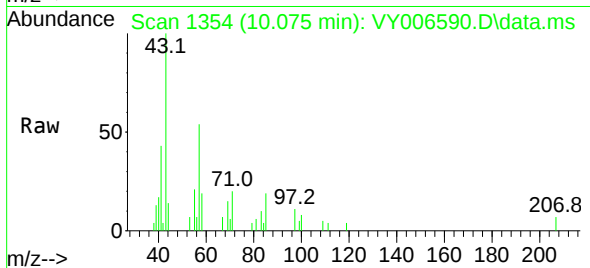
|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 311902   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 63.9 50.9 76.3 |



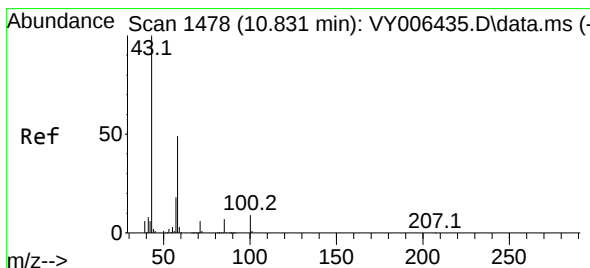
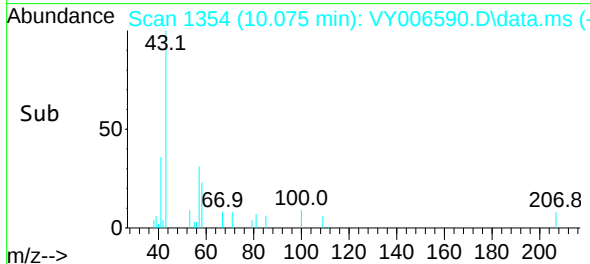
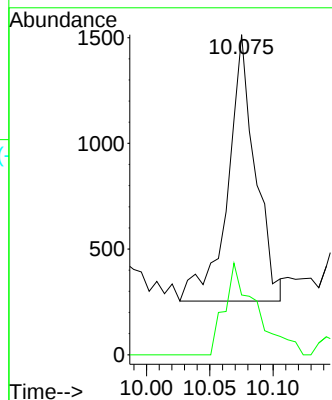


#51  
4-Methyl-2-Pentanone  
Concen: 1.222 ug/l  
RT: 10.075 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Instrument :  
MSVOA\_N  
ClientSampleId :

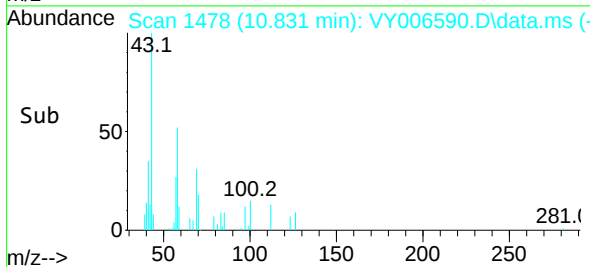
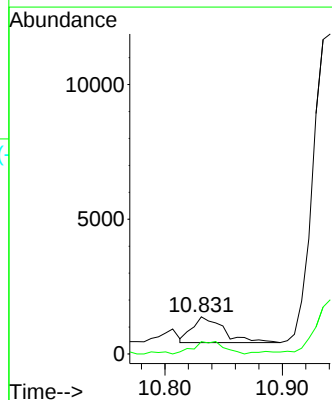
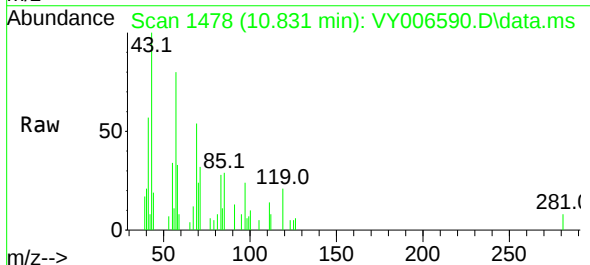


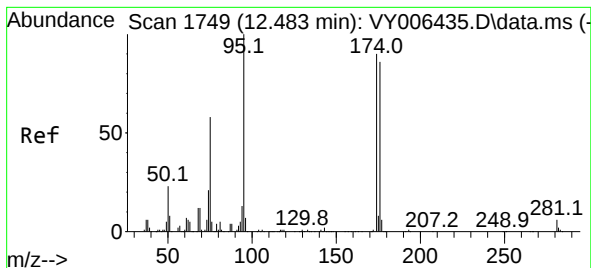
Tgt Ion: 43 Resp: 1911  
Ion Ratio Lower Upper  
43 100  
58 39.9 28.7 43.1



#59  
2-Hexanone  
Concen: 1.598 ug/l  
RT: 10.831 min Scan# 1478  
Delta R.T. -0.000 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Tgt Ion: 43 Resp: 1808  
Ion Ratio Lower Upper  
43 100  
58 46.2 24.6 73.6

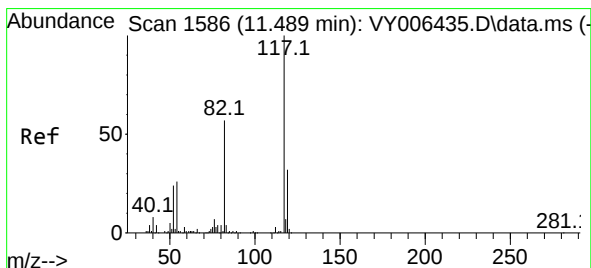
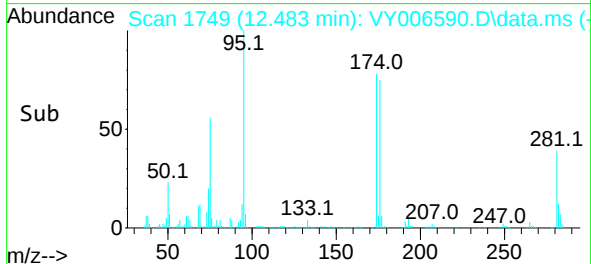
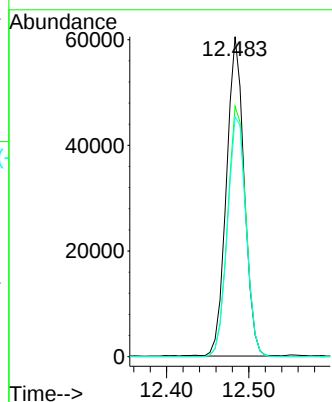
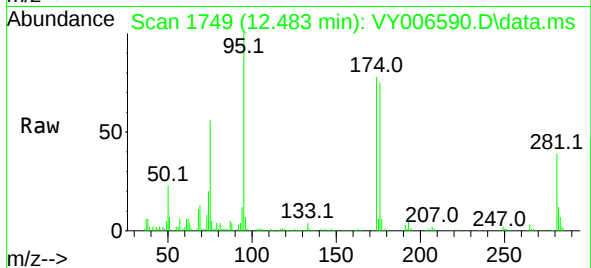




#62  
4-Bromofluorobenzene  
Concen: 46.412 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

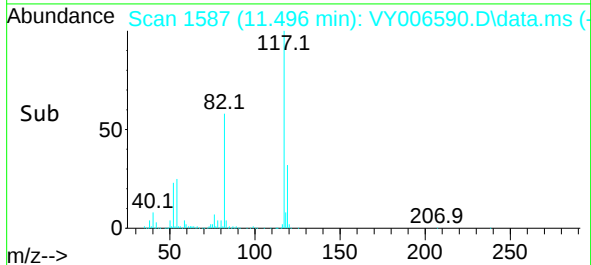
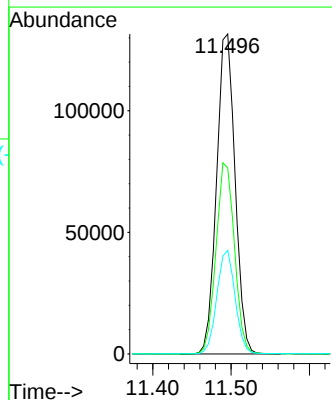
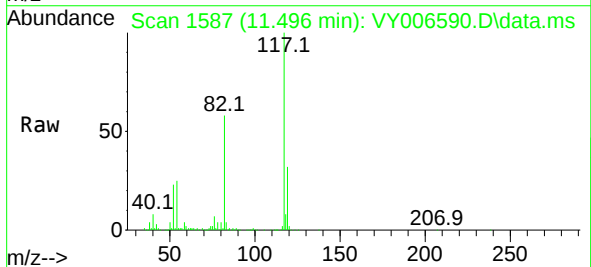
Instrument :  
MSVOA\_N  
ClientSampleId :

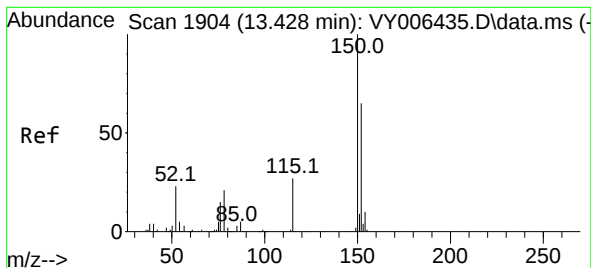
Tgt Ion: 95 Resp: 90833  
Ion Ratio Lower Upper  
95 100  
174 81.0 0.0 177.0  
176 78.2 0.0 169.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Tgt Ion: 117 Resp: 216157  
Ion Ratio Lower Upper  
117 100  
82 58.2 45.7 68.5  
119 32.2 25.5 38.3

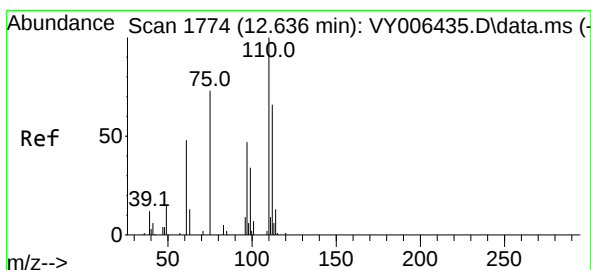
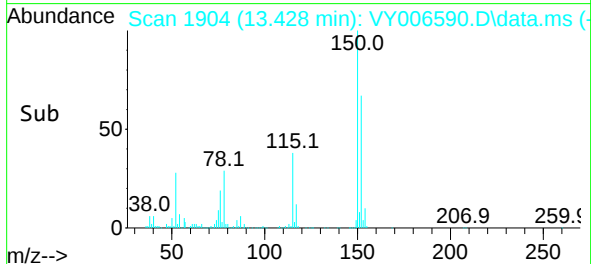
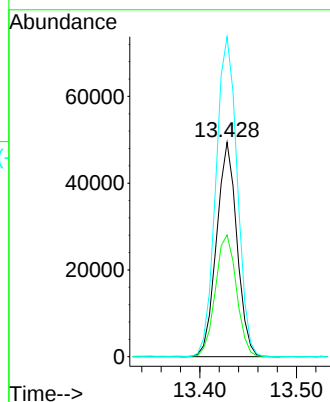
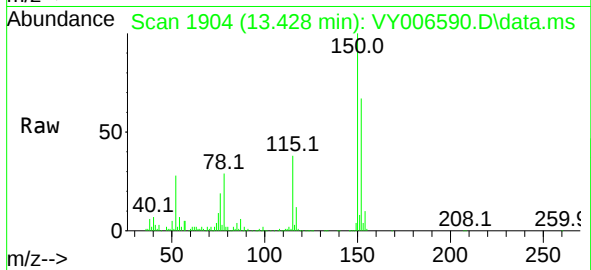




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1904  
 Delta R.T. 0.000 min  
 Lab File: VY006590.D  
 Acq: 02 Nov 2021 20:34

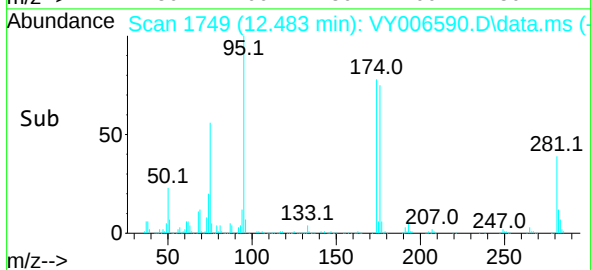
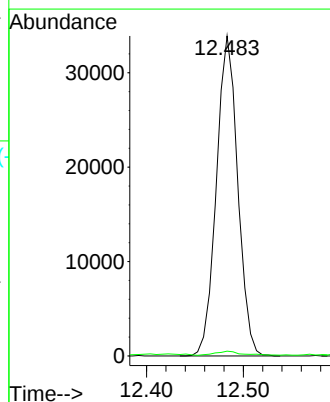
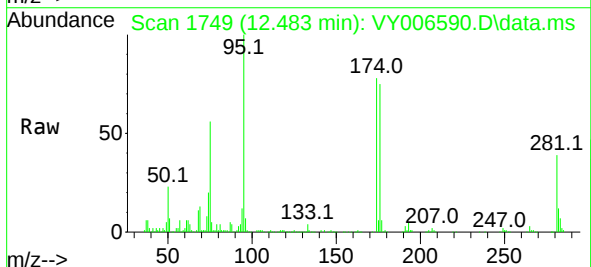
Instrument :  
 MSVOA\_N  
 ClientSampleId :

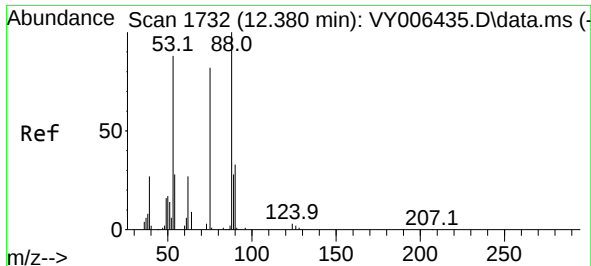
Tgt Ion:152 Resp: 72320  
 Ion Ratio Lower Upper  
 152 100  
 115 58.8 28.5 85.5  
 150 155.8 0.0 348.2



#76  
 1,2,3-Trichloropropane  
 Concen: 69.701 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.152 min  
 Lab File: VY006590.D  
 Acq: 02 Nov 2021 20:34

Tgt Ion: 75 Resp: 51944  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#

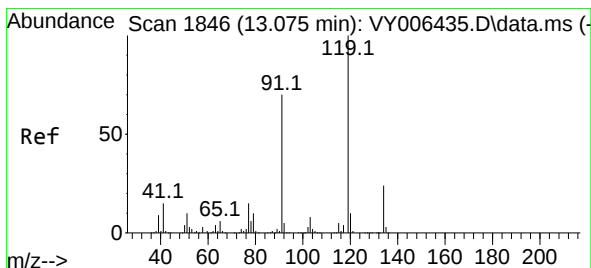
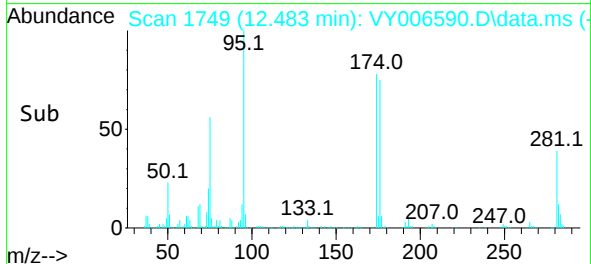
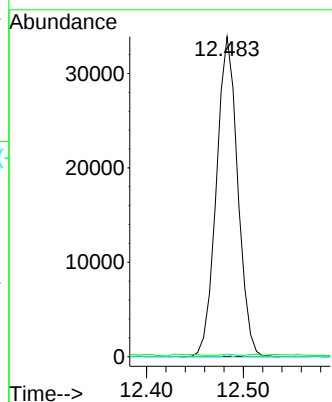
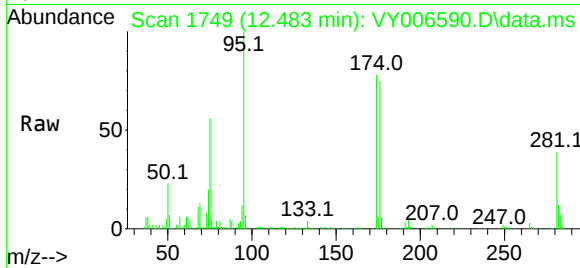




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 143.094 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. 0.104 min  
 Lab File: VY006590.D  
 Acq: 02 Nov 2021 20:34

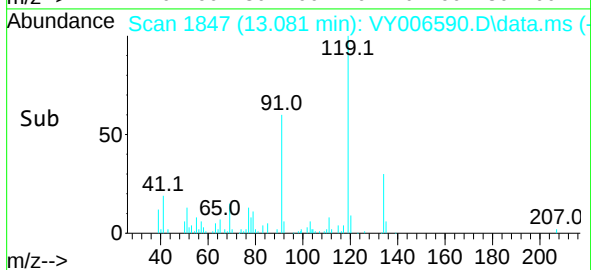
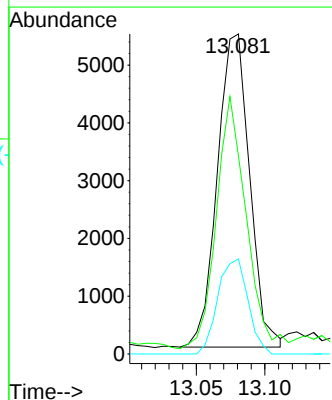
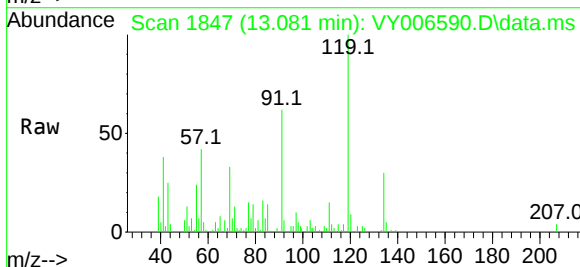
Instrument :  
 MSVOA\_N  
 ClientSampleId :

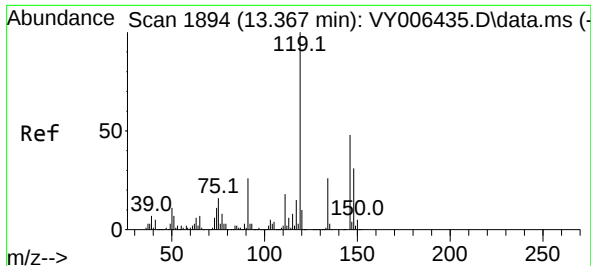
Tgt Ion: 75 Resp: 51944  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 85.8 128.6#  
 89 0.3 39.3 58.9#



#83  
 tert-Butylbenzene  
 Concen: 2.435 ug/l  
 RT: 13.081 min Scan# 1847  
 Delta R.T. 0.006 min  
 Lab File: VY006590.D  
 Acq: 02 Nov 2021 20:34

Tgt Ion: 119 Resp: 8865  
 Ion Ratio Lower Upper  
 119 100  
 91 74.3 34.8 104.5  
 134 28.3 13.0 38.9

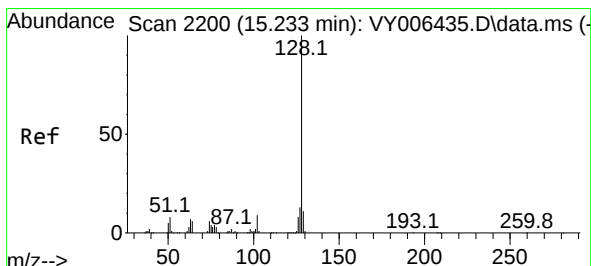
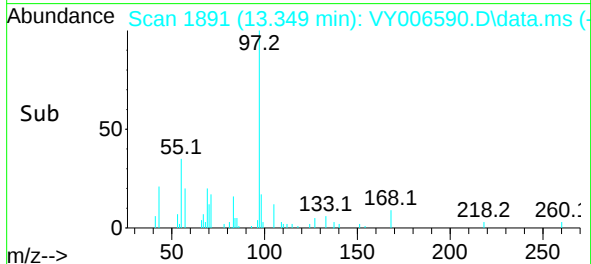
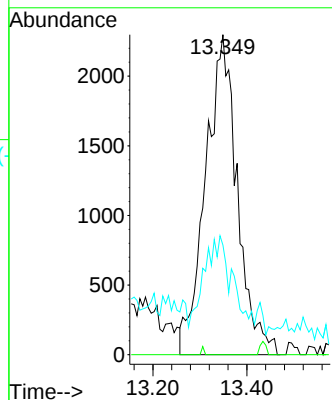
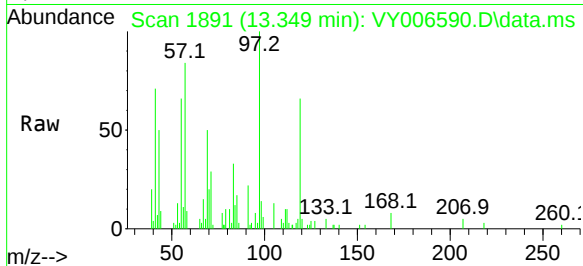




#86  
p-Isopropyltoluene  
Concen: 2.308 ug/l  
RT: 13.349 min Scan# 1891  
Delta R.T. -0.018 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:119 Resp: 10760  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.1 39.1#  
91 18.9 12.4 37.4



#95  
Naphthalene  
Concen: 1.266 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. 0.006 min  
Lab File: VY006590.D  
Acq: 02 Nov 2021 20:34

Tgt Ion:128 Resp: 3432  
Ion Ratio Lower Upper  
128 100  
127 22.4 11.0 16.4#  
129 15.3 8.9 13.3#

