

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091024\  
 Data File : VN083761.D  
 Acq On : 10 Sep 2024 18:56  
 Operator : JC\MD  
 Sample : P3907-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PL-701-COMP-54

Quant Time: Sep 11 03:18:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 02:47:22 2024  
 Response via : Initial Calibration

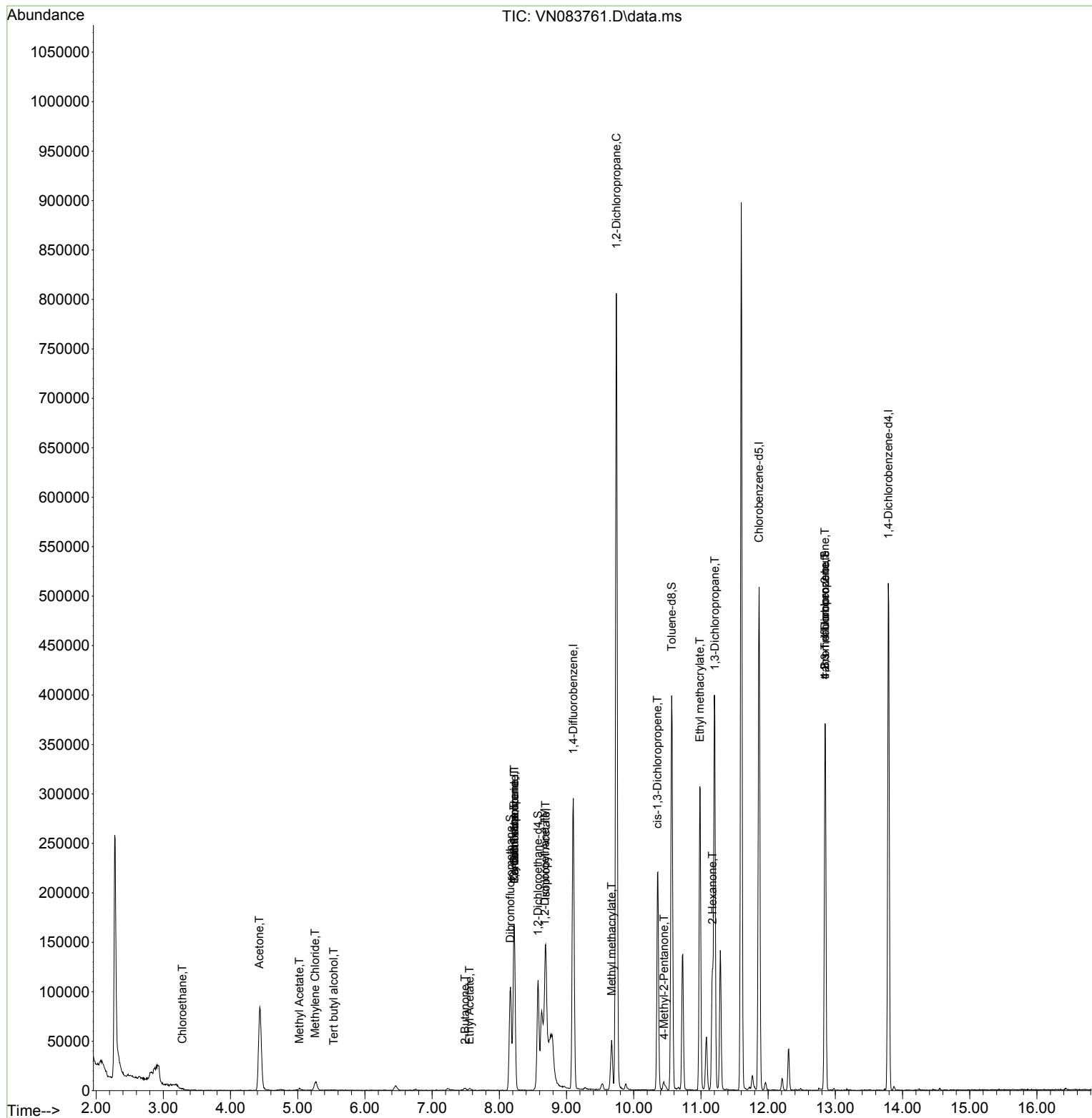
| Compound                      | R.T.           | QIon | Response            | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------------|-------|----------|
| -----                         |                |      |                     |               |       |          |
| Internal Standards            |                |      |                     |               |       |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 114204              | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 241358              | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 269513              | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 129958              | 50.000        | ug/l  | 0.00     |
|                               |                |      |                     |               |       |          |
| System Monitoring Compounds   |                |      |                     |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 92638               | 53.796        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 107.600% |               |       |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 72623               | 47.001        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 94.000%  |               |       |          |
| 50) Toluene-d8                | 10.565         | 98   | 269164              | 50.390        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.780% |               |       |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 126201              | 57.264        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 114.520% |               |       |          |
|                               |                |      |                     |               |       |          |
| Target Compounds              |                |      |                     |               |       | Qvalue   |
| 3) Chloromethane              | 2.360          | 50   | 1202                | Below Cal     |       | 94       |
| 6) Chloroethane               | 3.283          | 64   | 208                 | 0.204 ug/l #  |       | 45       |
| 11) Tert butyl alcohol        | 5.536          | 59   | 370                 | 1.605 ug/l #  |       | 71       |
| 16) Acetone                   | 4.430          | 43   | 41679               | 60.376 ug/l   |       | 100      |
| 18) Methyl Acetate            | 5.024          | 43   | 3438                | 0.555 ug/l #  |       | 84       |
| 20) Methylene Chloride        | 5.259          | 84   | 6258                | 4.430 ug/l #  |       | 90       |
| 25) 2-Butanone                | 7.489          | 43   | 4262                | 4.697 ug/l #  |       | 87       |
| 31) Cyclohexane               | 8.218          | 56   | 3322                | 1.335 ug/l #  |       | 27       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 10287               | 4.423 ug/l #  |       | 50       |
| 37) Ethyl Acetate             | 7.559          | 43   | 3084                | 1.461 ug/l #  |       | 87       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 13733               | 5.205 ug/l #  |       | 14       |
| 42) 1,2-Dichloroethane        | 8.677          | 62   | 553                 | 0.211 ug/l #  |       | 77       |
| 43) Isopropyl Acetate         | 8.689          | 43   | 127036              | 33.208 ug/l # |       | 90       |
| 45) 1,2-Dichloropropane       | 9.741          | 63   | 913                 | 0.540 ug/l #  |       | 42       |
| 48) Methyl methacrylate       | 9.671          | 41   | 3151                | 1.736 ug/l #  |       | 48       |
| 51) 4-Methyl-2-Pentanone      | 10.453         | 43   | 9054                | 4.348 ug/l #  |       | 72       |
| 54) cis-1,3-Dichloropropene   | 10.353         | 75   | 39696               | 14.537 ug/l # |       | 66       |
| 56) Ethyl methacrylate        | 10.982         | 69   | 1036                | 0.421 ug/l #  |       | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 4168                | 1.517 ug/l #  |       | 42       |
| 59) 2-Hexanone                | 11.171         | 43   | 100924              | 65.519 ug/l # |       | 24       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 72653               | 28.407 ug/l # |       | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 72653               | 72.564 ug/l # |       | 9        |
| -----                         |                |      |                     |               |       |          |

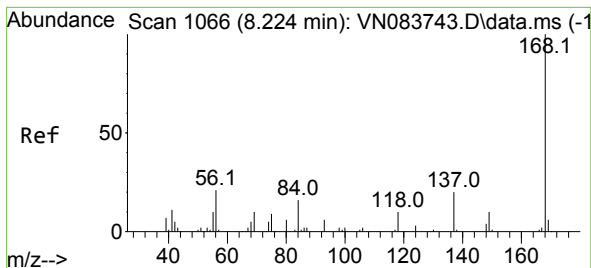
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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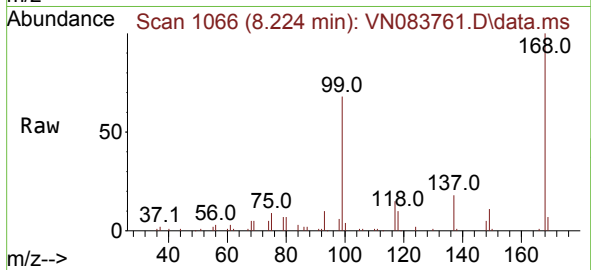
Quant Time: Sep 11 03:18:21 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 02:47:22 2024  
Response via : Initial Calibration



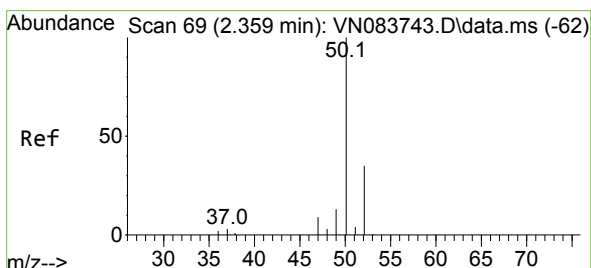
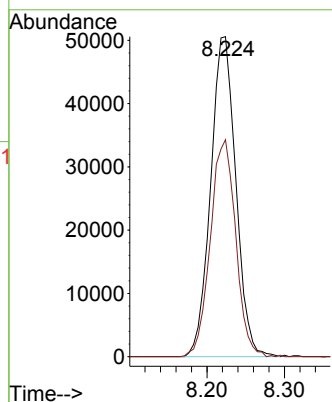
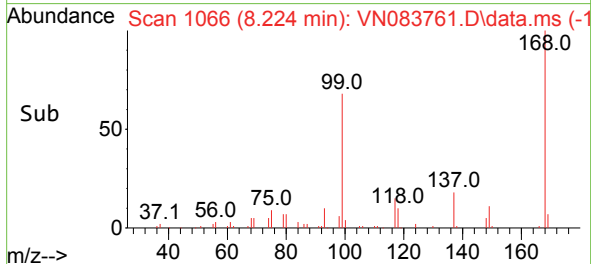


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Instrument :  
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ClientSampleId :  
PL-701-COMP-54

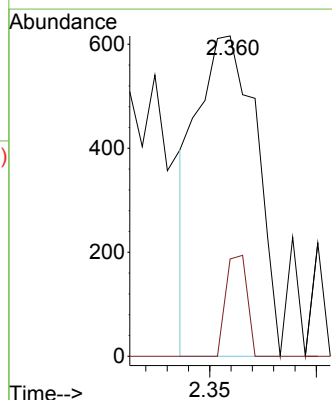
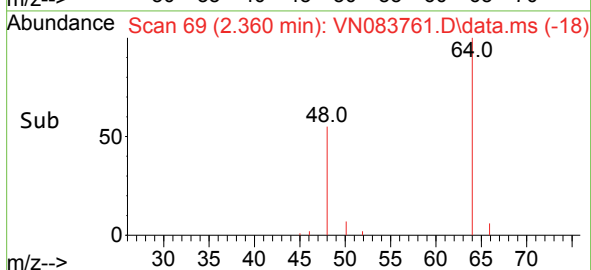
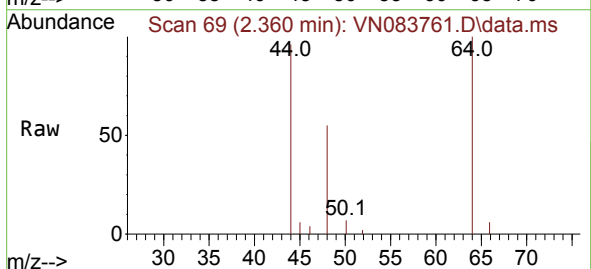


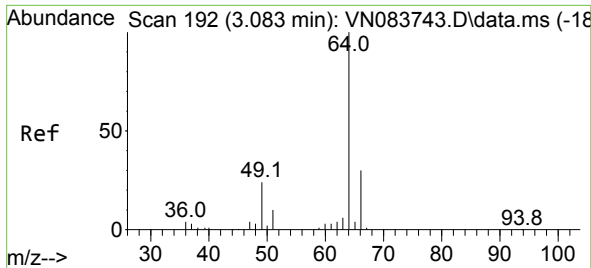
Tgt Ion:168 Resp: 114204  
Ion Ratio Lower Upper  
168 100  
99 67.8 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.360 min Scan# 69  
Delta R.T. 0.001 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 50 Resp: 1202  
Ion Ratio Lower Upper  
50 100  
52 30.4 27.2 40.8

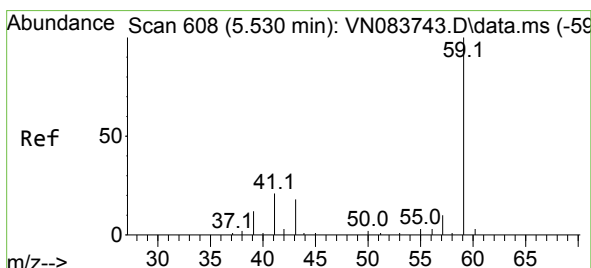
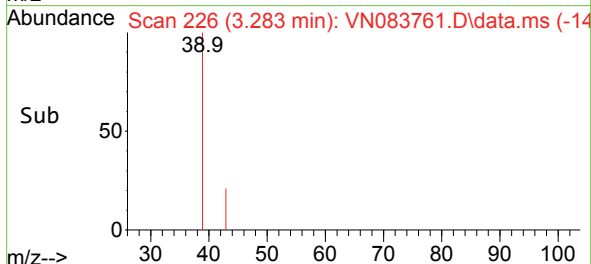
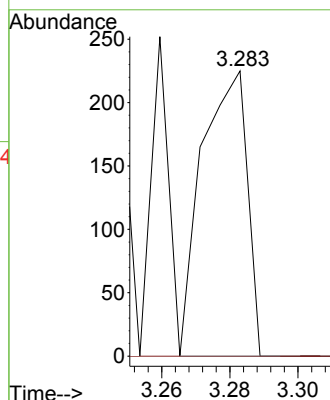
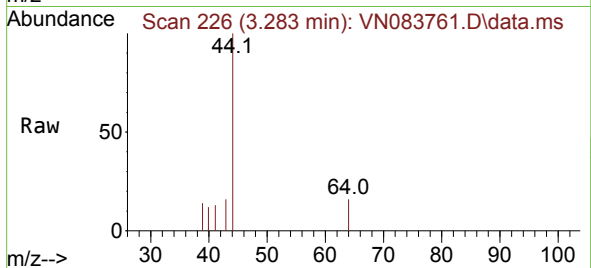




#6  
Chloroethane  
Concen: 0.204 ug/l  
RT: 3.283 min Scan# 21  
Delta R.T. 0.200 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

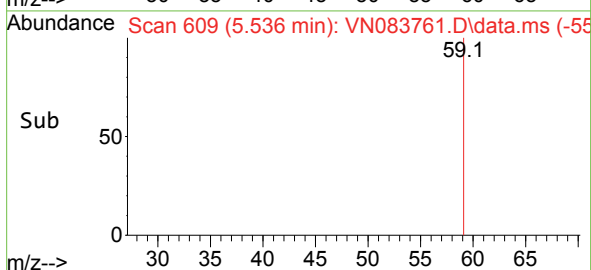
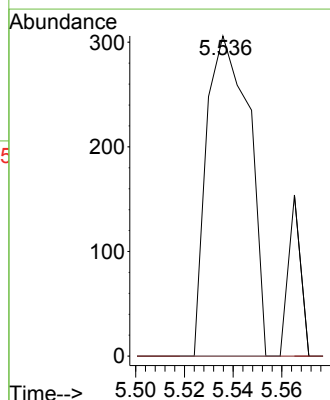
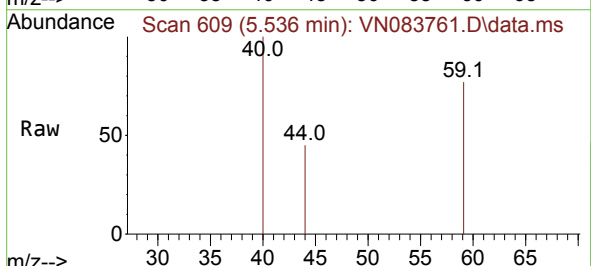
Instrument :  
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ClientSampleId :  
PL-701-COMP-54

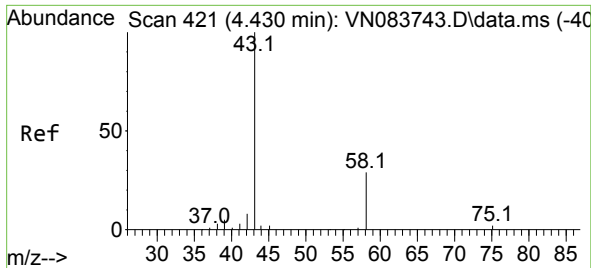
Tgt Ion: 64 Resp: 208  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#



#11  
Tert butyl alcohol  
Concen: 1.605 ug/l  
RT: 5.536 min Scan# 609  
Delta R.T. 0.006 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 59 Resp: 370  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

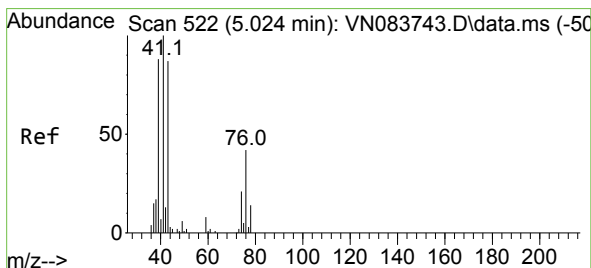
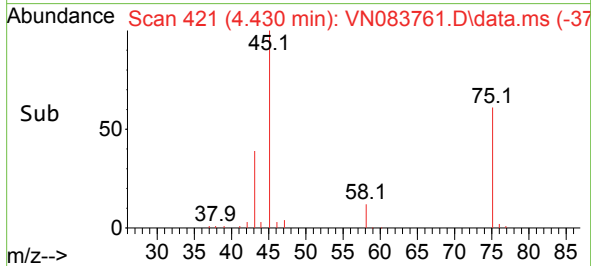
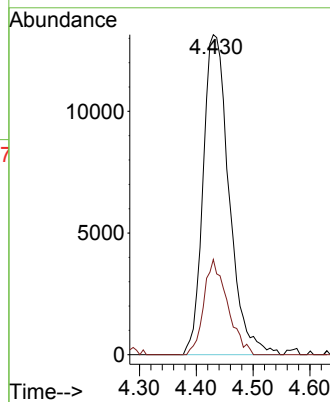
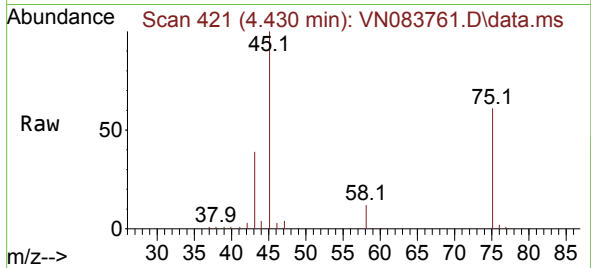




#16  
Acetone  
Concen: 60.376 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

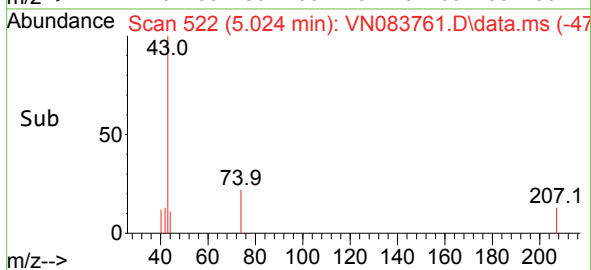
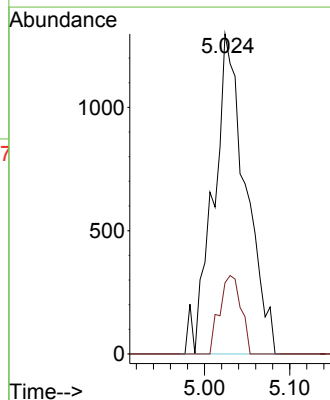
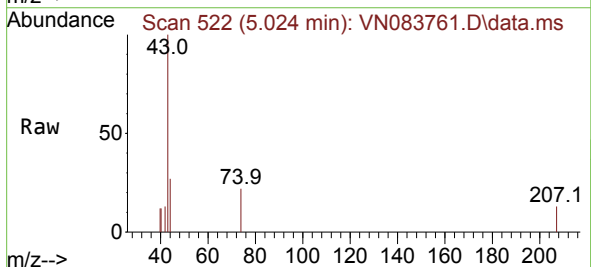
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

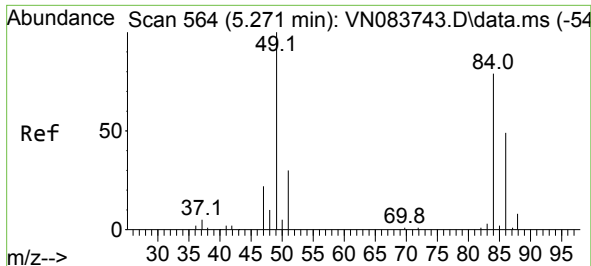
Tgt Ion: 43 Resp: 41679  
Ion Ratio Lower Upper  
43 100  
58 29.7 23.7 35.5



#18  
Methyl Acetate  
Concen: 0.555 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

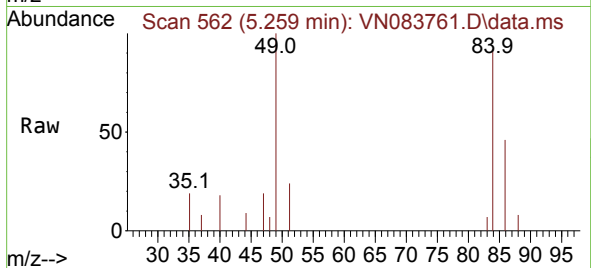
Tgt Ion: 43 Resp: 3438  
Ion Ratio Lower Upper  
43 100  
74 16.1 19.0 28.4#



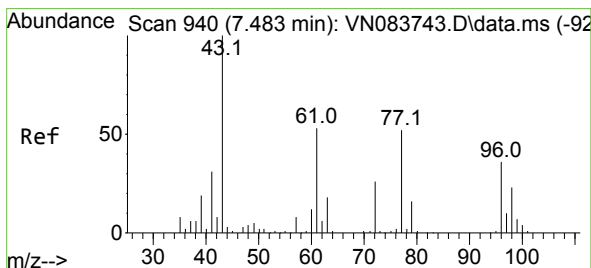
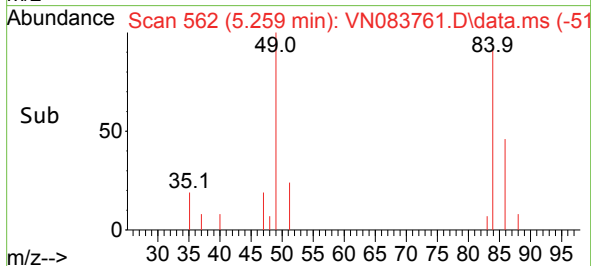
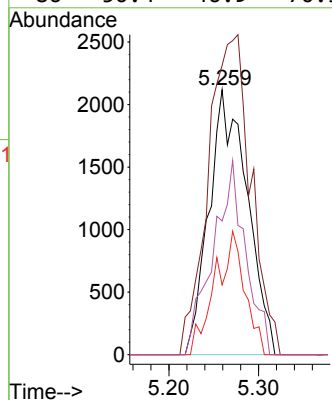


#20  
Methylene Chloride  
Concen: 4.430 ug/l  
RT: 5.259 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

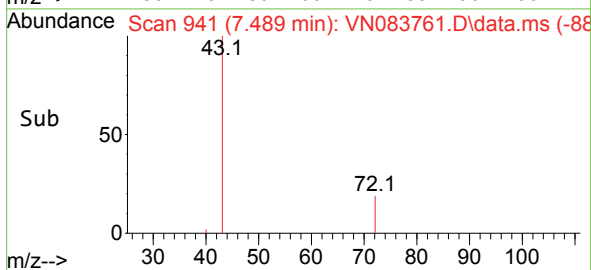
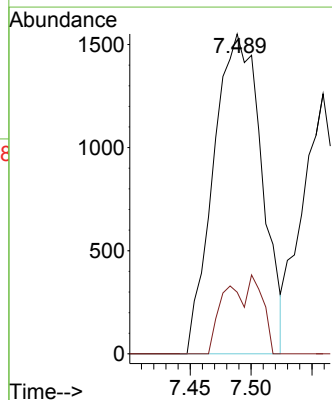
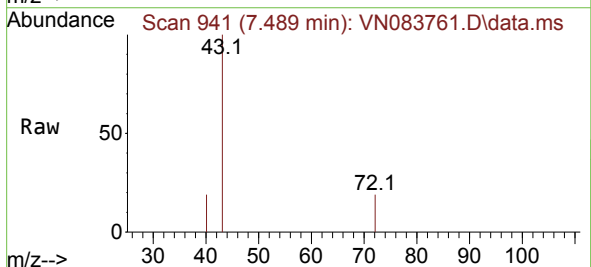


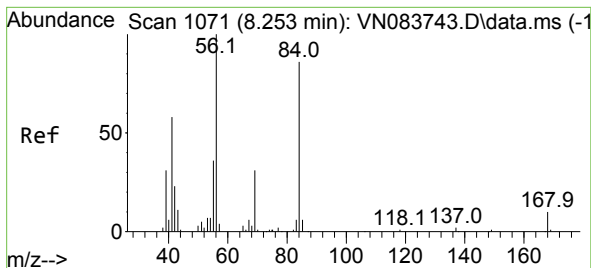
| Tgt Ion: | 84    | Resp: | 6258  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.2 | 93.4  | 140.0 |
| 51       | 26.3  | 29.2  | 43.8# |
| 86       | 50.4  | 46.9  | 70.3  |



#25  
2-Butanone  
Concen: 4.697 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

| Tgt Ion: | 43    | Resp: | 4262  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 19.3  | 20.8  | 31.2# |





#31

Cyclohexane

Concen: 1.335 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN083761.D

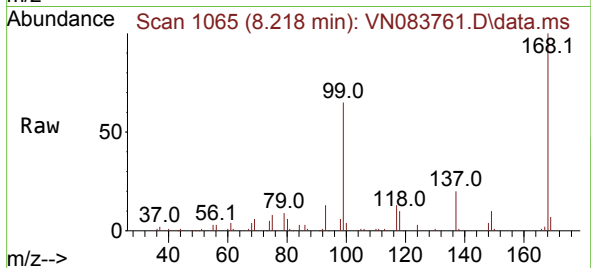
Acq: 10 Sep 2024 18:56

Instrument :

MSVOA\_N

ClientSampleId :

PL-701-COMP-54



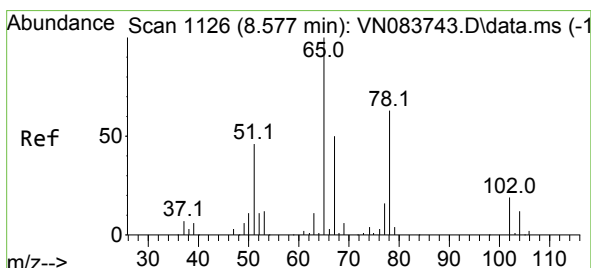
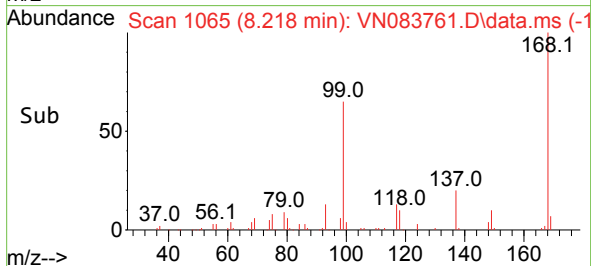
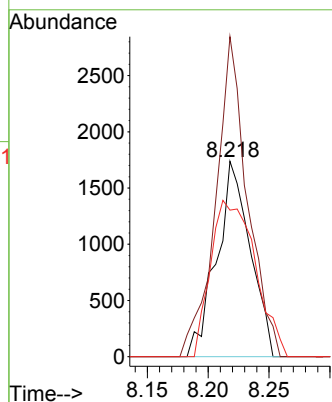
Tgt Ion: 56 Resp: 3322

Ion Ratio Lower Upper

56 100

69 163.8 26.9 40.3#

84 75.1 69.2 103.8



#33

1,2-Dichloroethane-d4

Concen: 53.796 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083761.D

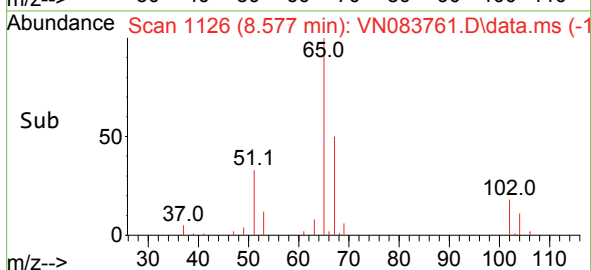
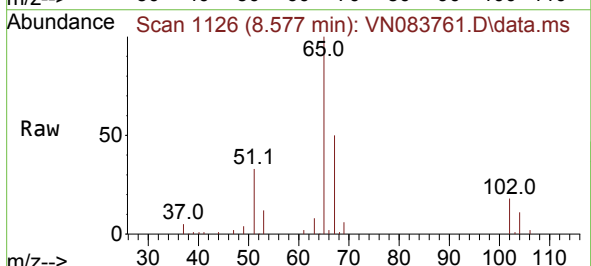
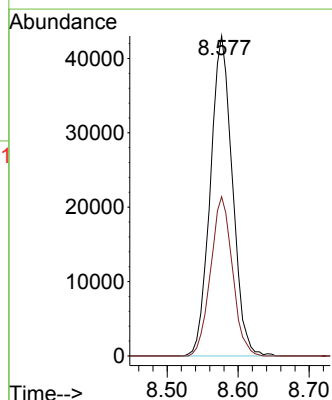
Acq: 10 Sep 2024 18:56

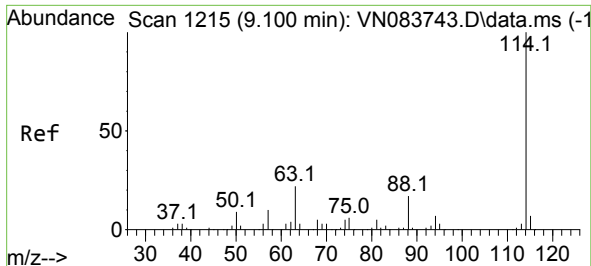
Tgt Ion: 65 Resp: 92638

Ion Ratio Lower Upper

65 100

67 49.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

Instrument :

MSVOA\_N

ClientSampleId :

PL-701-COMP-54

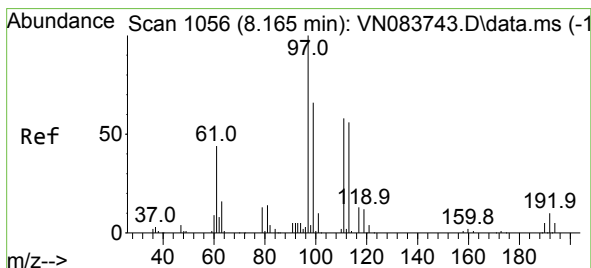
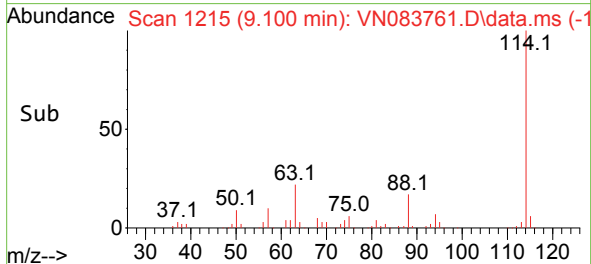
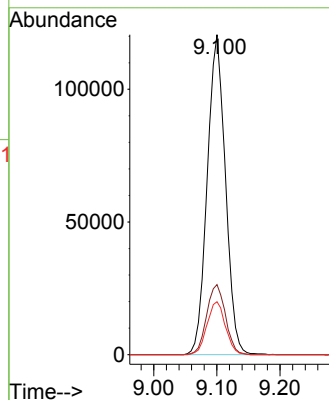
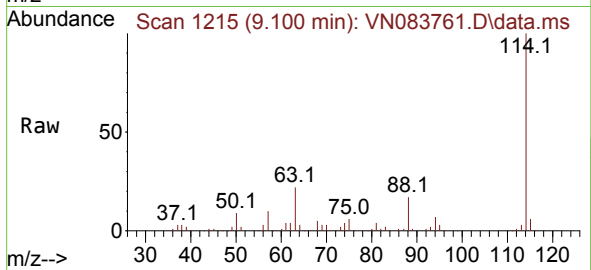
Tgt Ion:114 Resp: 241358

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.4

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.001 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

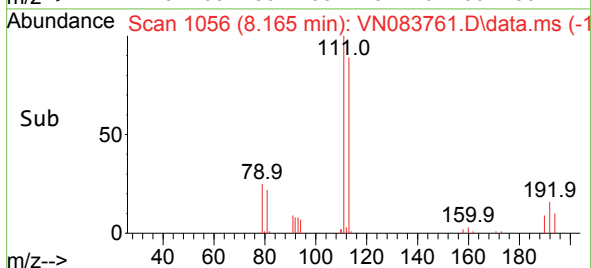
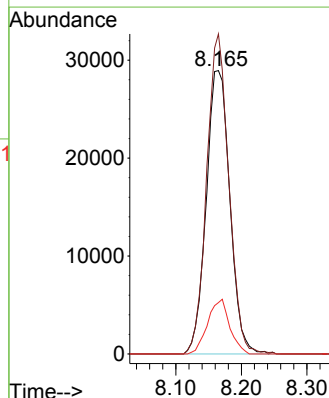
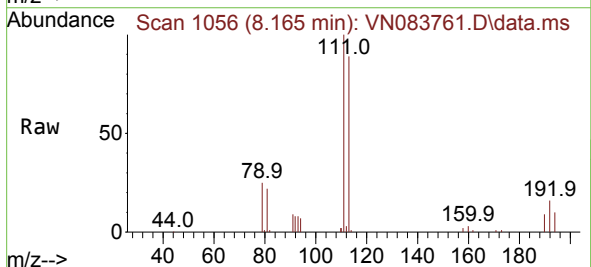
Tgt Ion:113 Resp: 72623

Ion Ratio Lower Upper

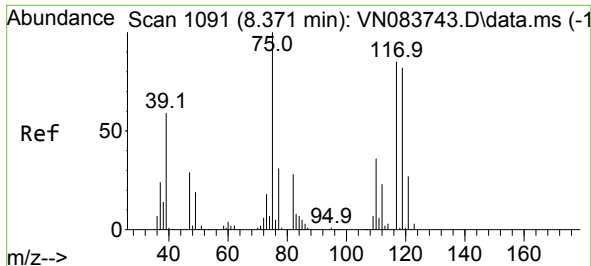
113 100

111 105.5 82.6 124.0

192 17.9 14.3 21.5







#36

1,1-Dichloropropene

Concen: 4.423 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083761.D

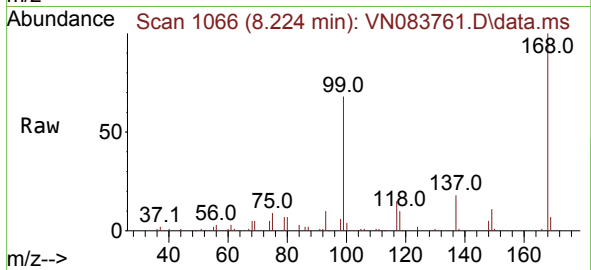
Acq: 10 Sep 2024 18:56

Instrument :

MSVOA\_N

ClientSampleId :

PL-701-COMP-54



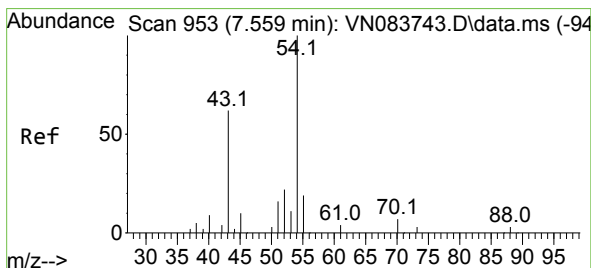
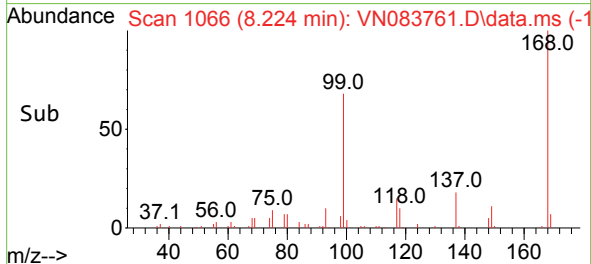
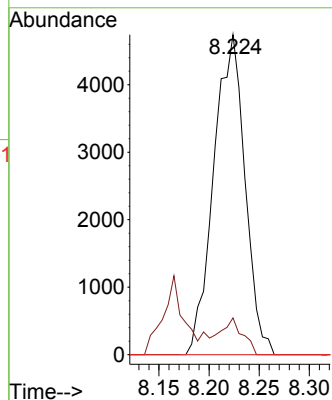
Tgt Ion: 75 Resp: 10287

Ion Ratio Lower Upper

75 100

110 8.2 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.461 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

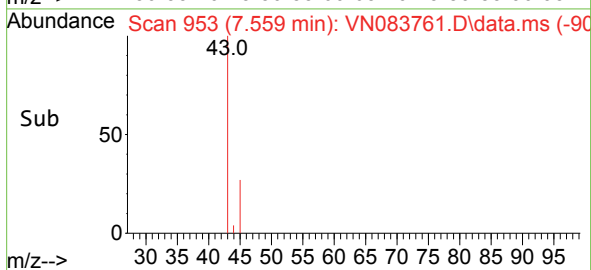
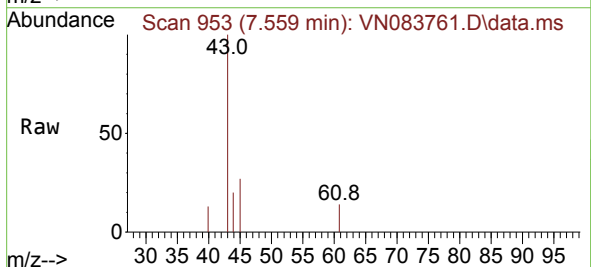
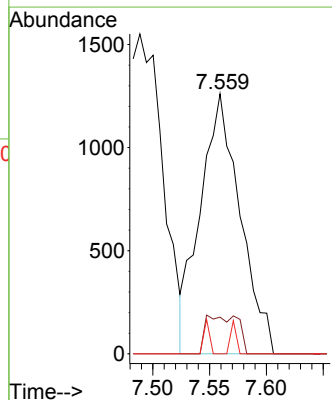
Tgt Ion: 43 Resp: 3084

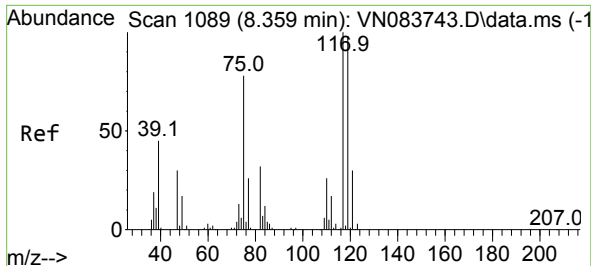
Ion Ratio Lower Upper

43 100

61 11.9 11.1 16.7

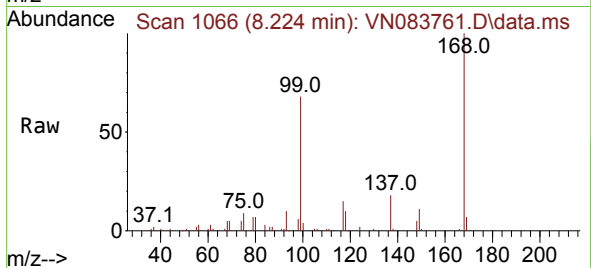
70 1.9 8.8 13.2#



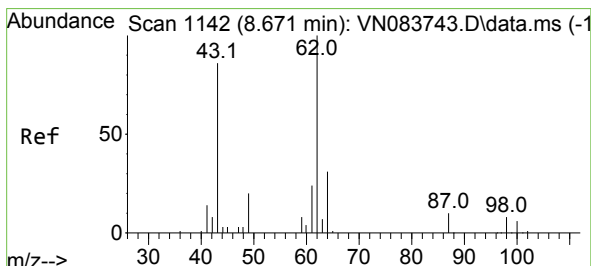
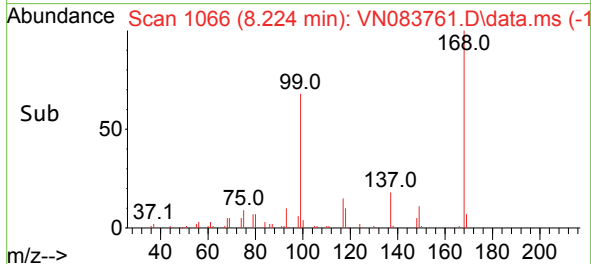
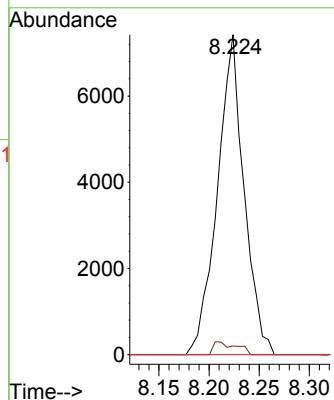


#38  
Carbon Tetrachloride  
Concen: 5.205 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

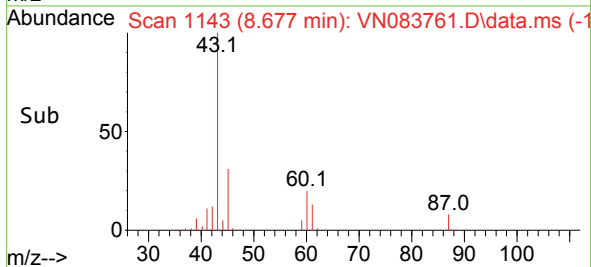
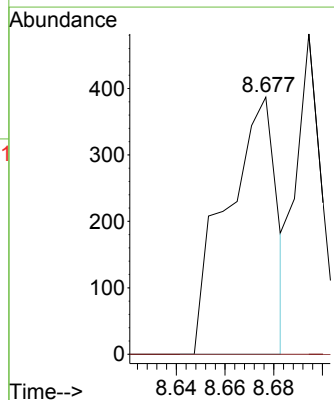
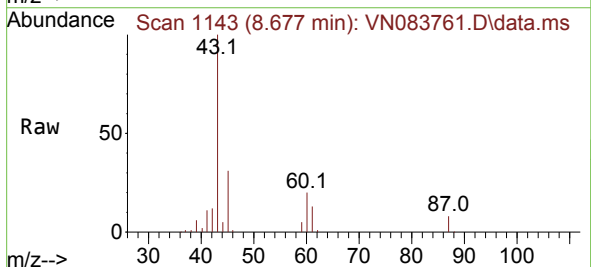


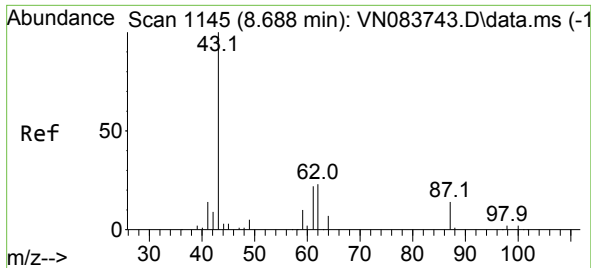
Tgt Ion: 117 Resp: 13733  
Ion Ratio Lower Upper  
117 100  
119 2.7 76.1 114.1#  
121 0.0 24.1 36.1#



#42  
1,2-Dichloroethane  
Concen: 0.211 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.006 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 62 Resp: 553  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.6

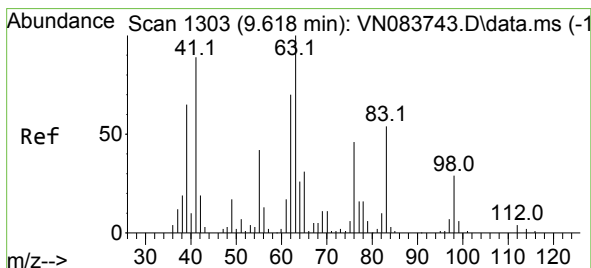
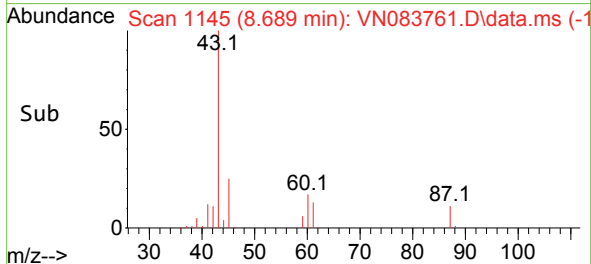
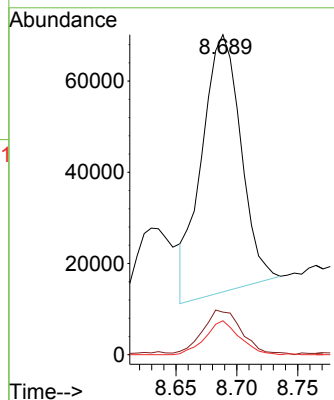
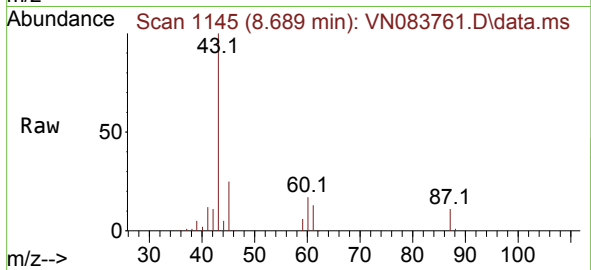




#43  
Isopropyl Acetate  
Concen: 33.208 ug/l  
RT: 8.689 min Scan# 1145  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

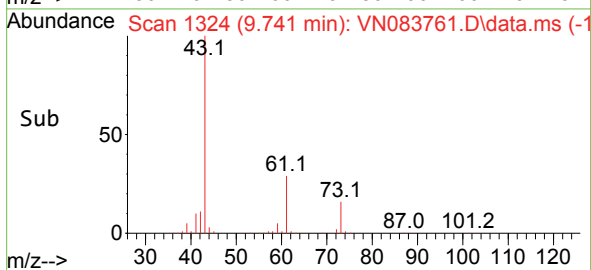
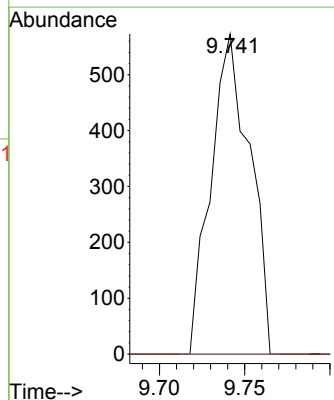
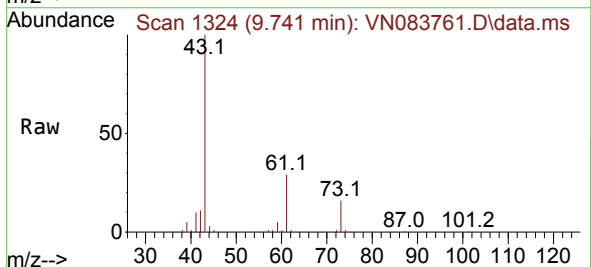
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

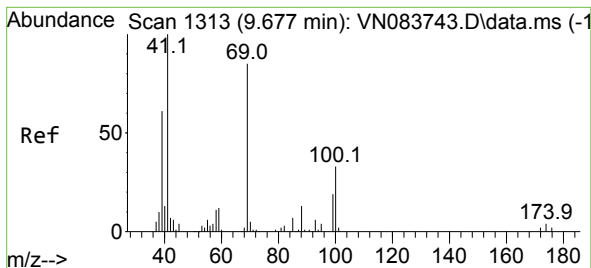
Tgt Ion: 43 Resp: 127036  
Ion Ratio Lower Upper  
43 100  
61 17.4 19.4 29.0#  
87 11.4 9.8 14.6



#45  
1,2-Dichloropropane  
Concen: 0.540 ug/l  
RT: 9.741 min Scan# 1324  
Delta R.T. 0.124 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 63 Resp: 913  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.9 38.9#





#48

Methyl methacrylate

Concen: 1.736 ug/l

RT: 9.671 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

Instrument :

MSVOA\_N

ClientSampleId :

PL-701-COMP-54

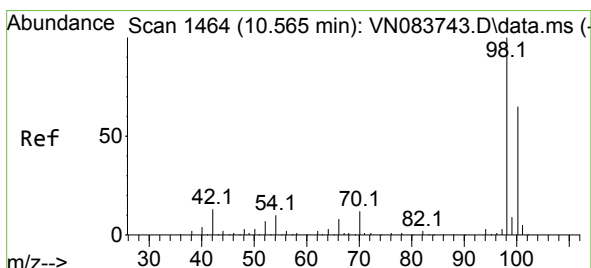
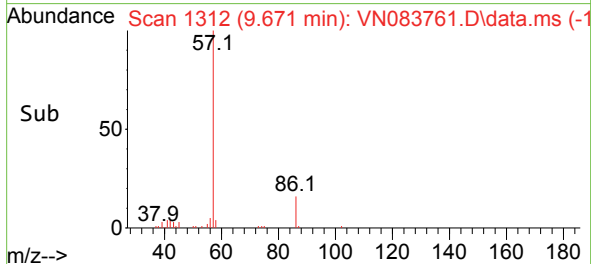
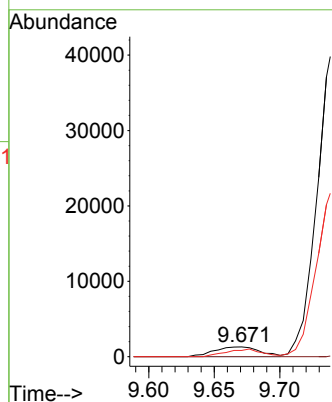
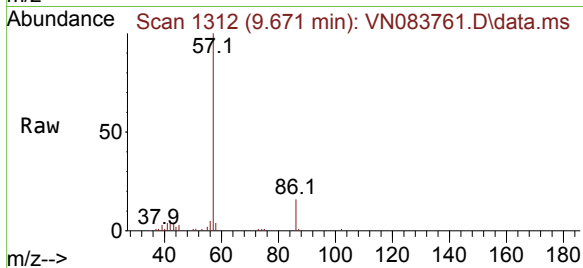
Tgt Ion: 41 Resp: 3151

Ion Ratio Lower Upper

41 100

69 0.0 64.3 96.5#

39 61.1 48.9 73.3



#50

Toluene-d8

Concen: 50.390 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083761.D

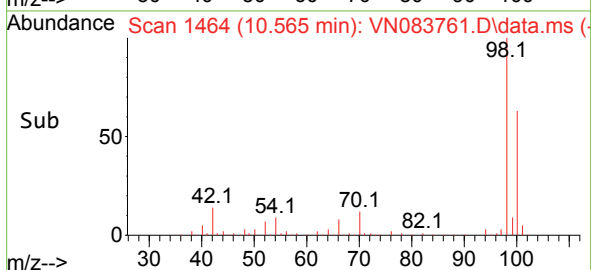
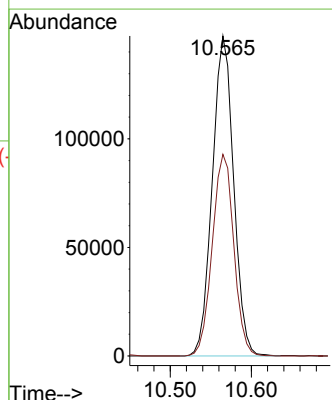
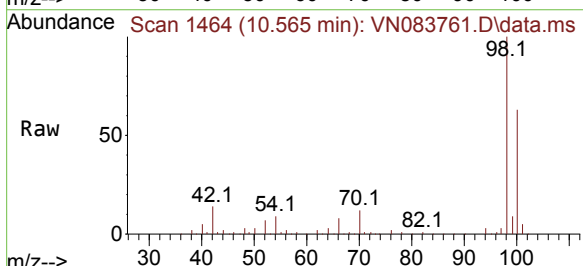
Acq: 10 Sep 2024 18:56

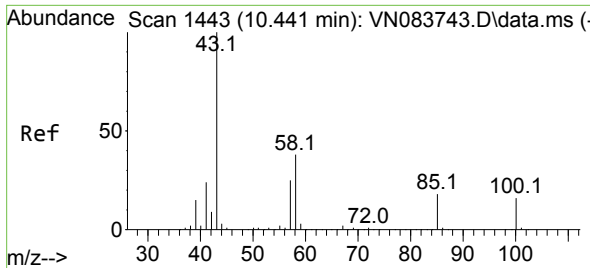
Tgt Ion: 98 Resp: 269164

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0

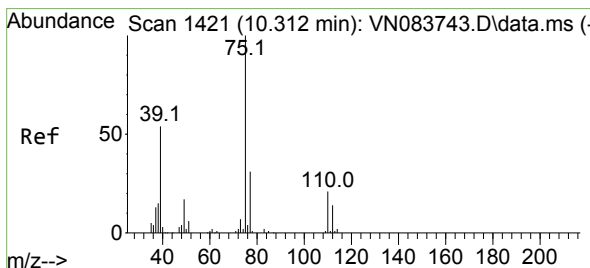
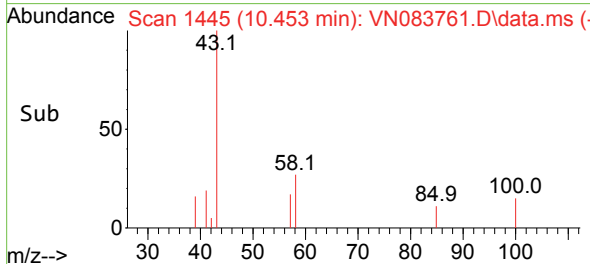
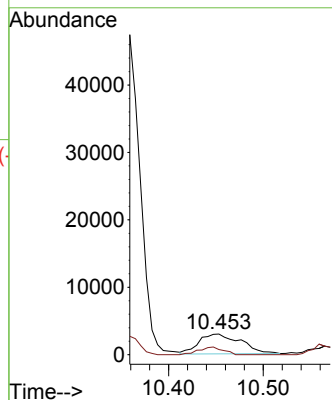
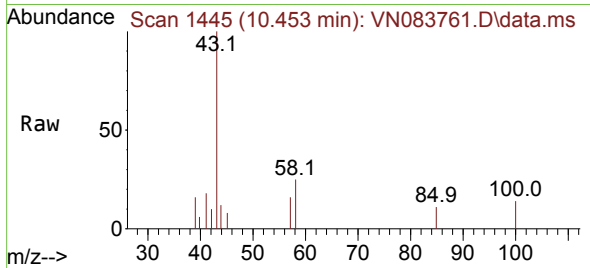




#51  
4-Methyl-2-Pentanone  
Concen: 4.348 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. 0.012 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

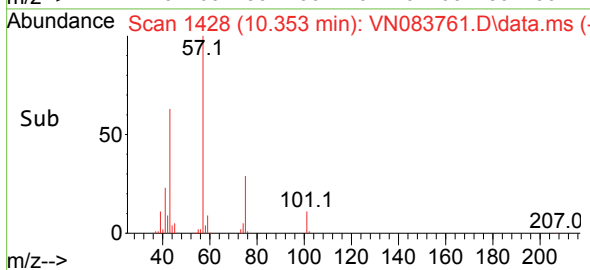
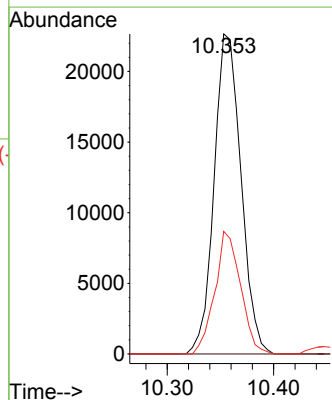
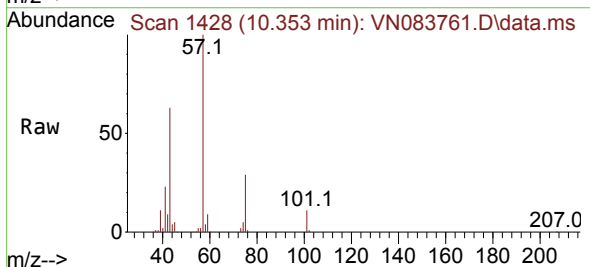
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

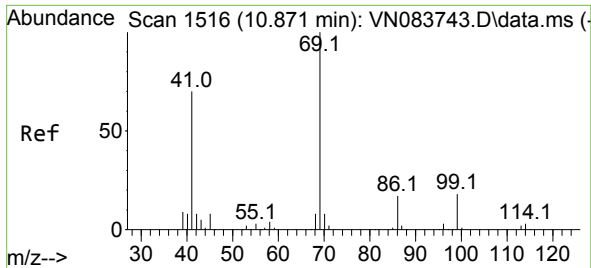
Tgt Ion: 43 Resp: 9054  
Ion Ratio Lower Upper  
43 100  
58 22.5 31.6 47.4#



#54  
cis-1,3-Dichloropropene  
Concen: 14.537 ug/l  
RT: 10.353 min Scan# 1428  
Delta R.T. 0.041 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 75 Resp: 39696  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.0 37.6#  
39 38.3 42.6 64.0#

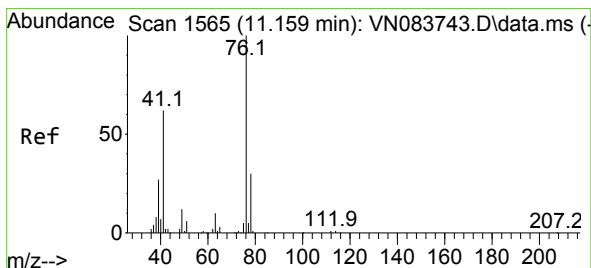
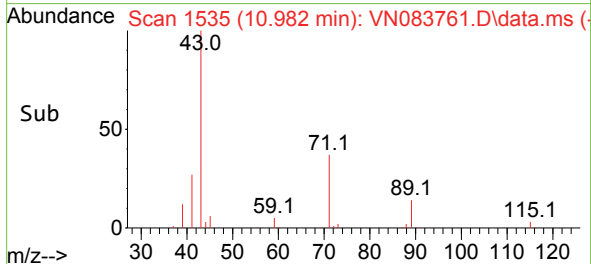
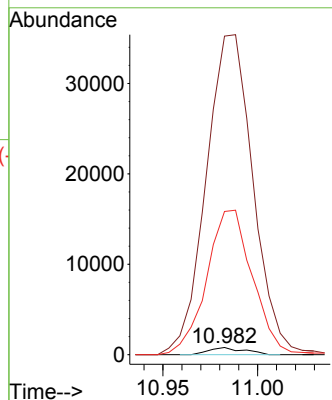
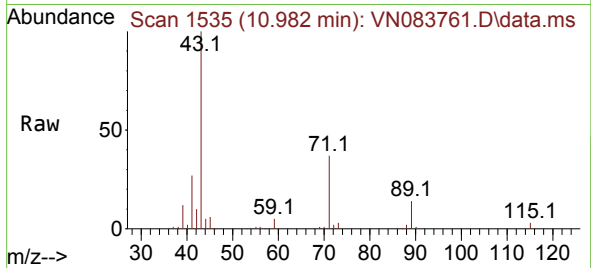




#56  
Ethyl methacrylate  
Concen: 0.421 ug/l  
RT: 10.982 min Scan# 1535  
Delta R.T. 0.112 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

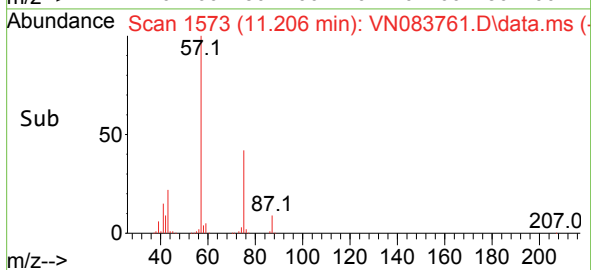
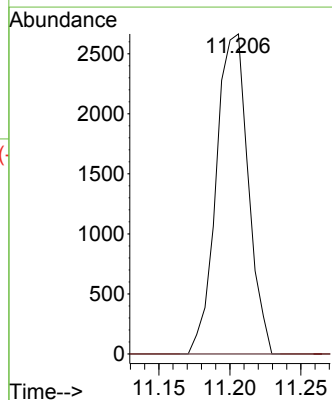
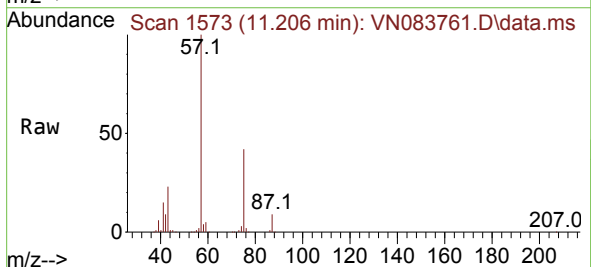
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

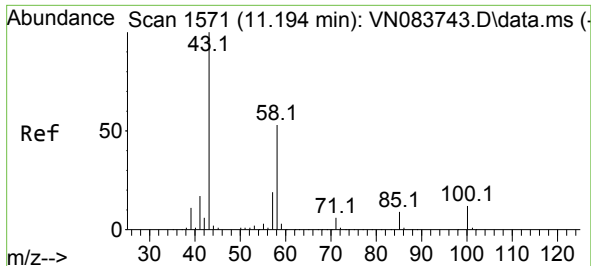
Tgt Ion: 69 Resp: 1036  
Ion Ratio Lower Upper  
69 100  
41 5906.2 53.9 80.9#  
39 2613.9 32.6 48.8#



#57  
1,3-Dichloropropane  
Concen: 1.517 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.047 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 76 Resp: 4168  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

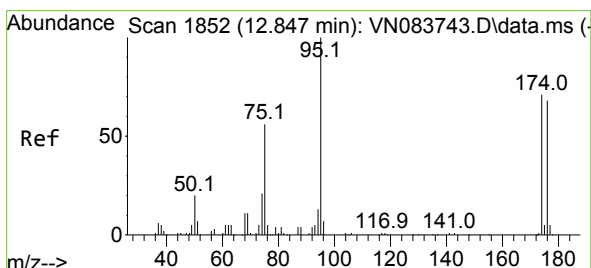
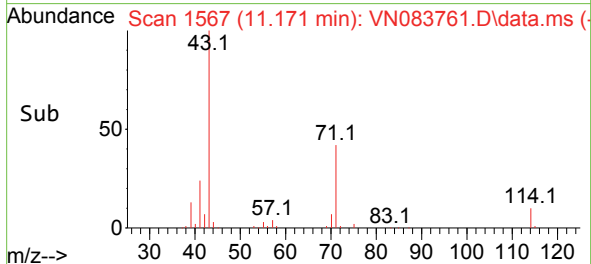
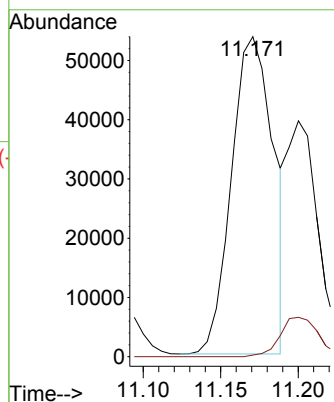
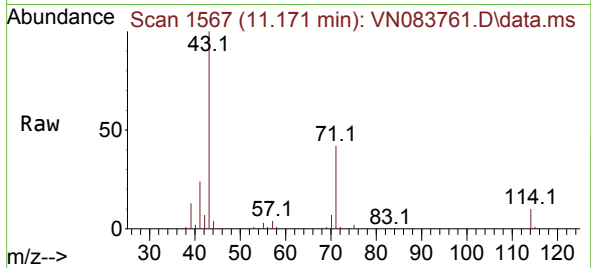




#59  
2-Hexanone  
Concen: 65.519 ug/l  
RT: 11.171 min Scan# 11  
Delta R.T. -0.023 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

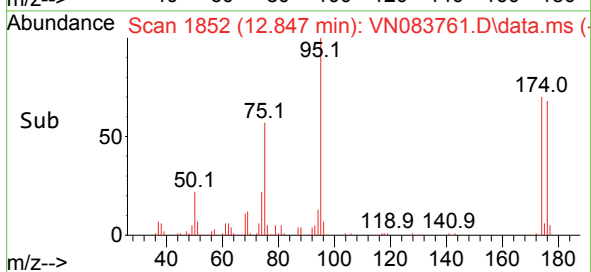
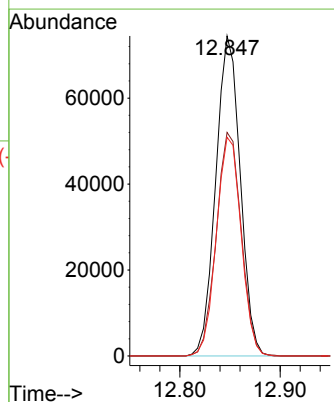
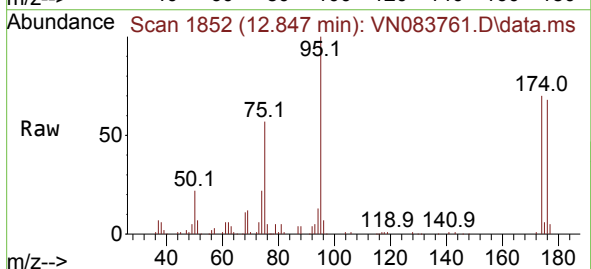
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

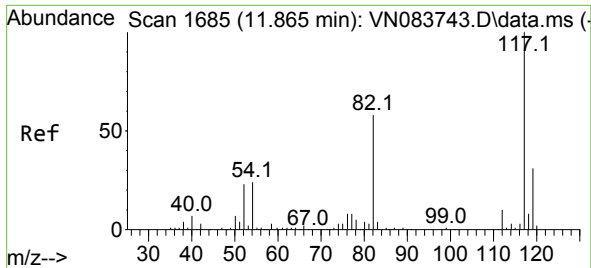
Tgt Ion: 43 Resp: 100924  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.2 81.5#



#62  
4-Bromofluorobenzene  
Concen: 57.264 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion: 95 Resp: 126201  
Ion Ratio Lower Upper  
95 100  
174 71.2 0.0 139.8  
176 69.0 0.0 131.4

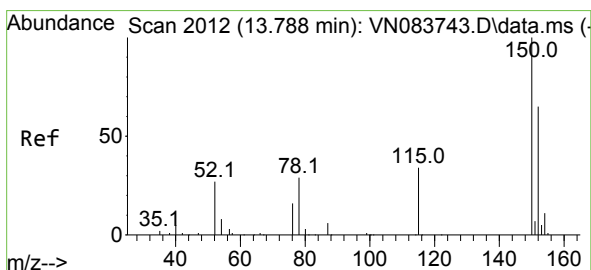
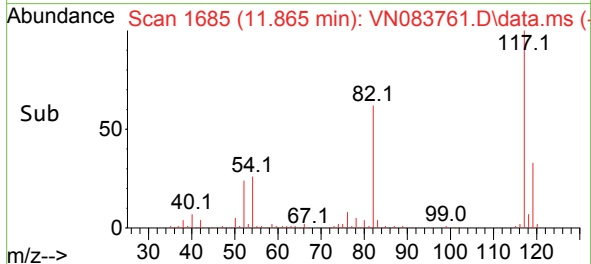
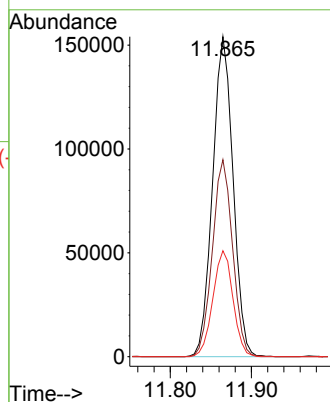
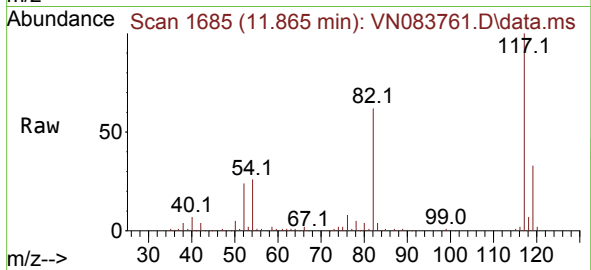




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

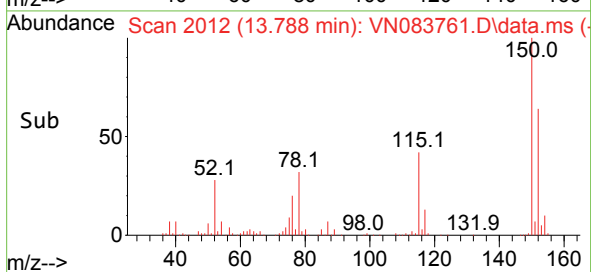
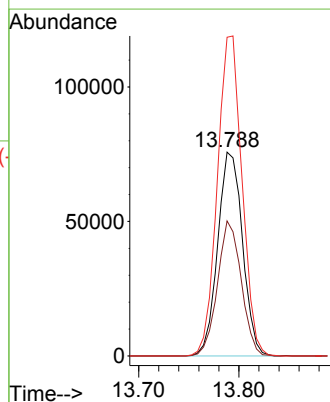
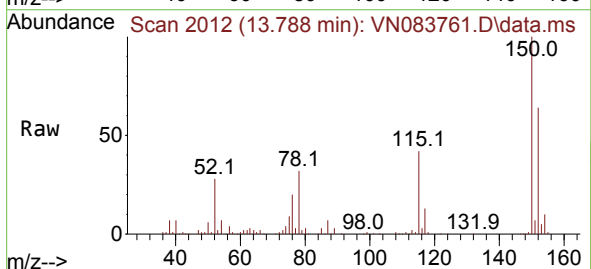
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-701-COMP-54

Tgt Ion:117 Resp: 269513  
Ion Ratio Lower Upper  
117 100  
82 61.5 47.4 71.0  
119 33.1 26.3 39.5

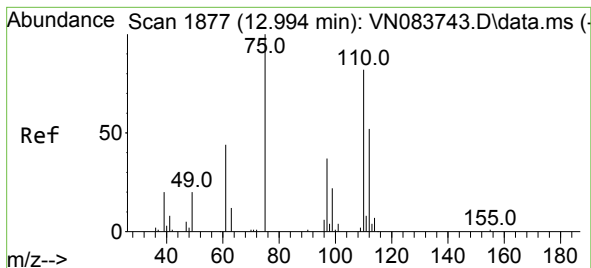


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN083761.D  
Acq: 10 Sep 2024 18:56

Tgt Ion:152 Resp: 129958  
Ion Ratio Lower Upper  
152 100  
115 63.3 32.2 96.6  
150 156.2 0.0 348.6







#76

1,2,3-Trichloropropane

Concen: 28.407 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

Instrument :

MSVOA\_N

ClientSampleId :

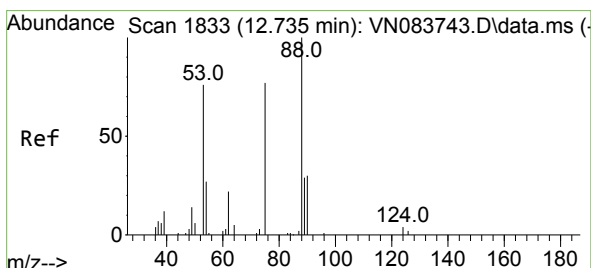
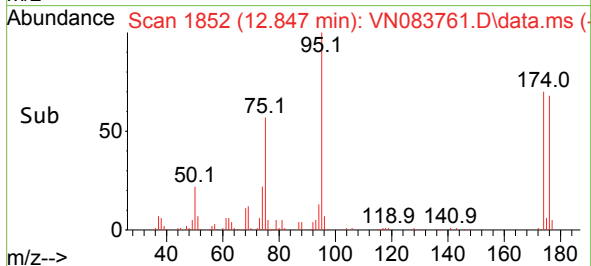
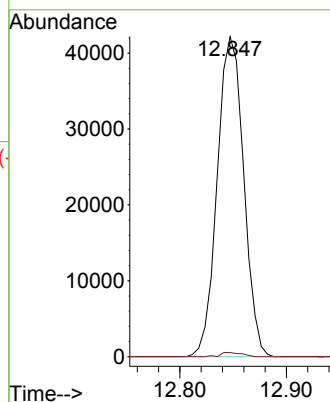
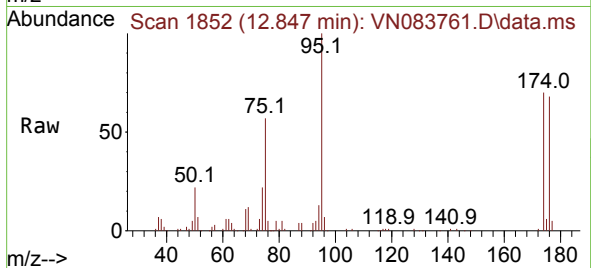
PL-701-COMP-54

Tgt Ion: 75 Resp: 72653

Ion Ratio Lower Upper

75 100

77 1.1 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.564 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083761.D

Acq: 10 Sep 2024 18:56

Tgt Ion: 75 Resp: 72653

Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#

