

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051724\  
 Data File : VN082183.D  
 Acq On : 17 May 2024 16:58  
 Operator : JC\MD  
 Sample : PB160967ZHE#01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB160967ZHE#01

Quant Time: May 17 23:13:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

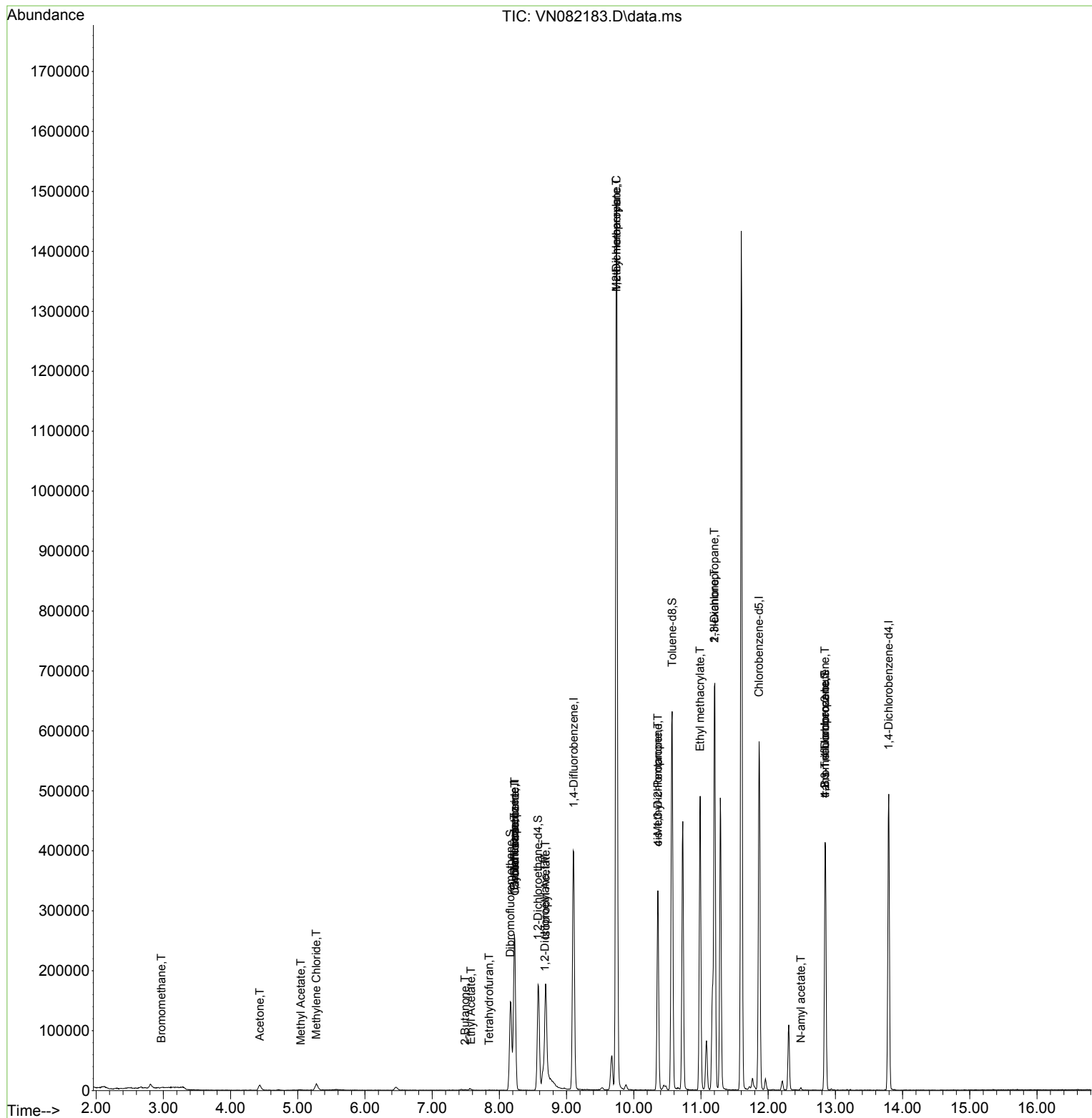
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 177785              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 317533              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 300169              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 118496              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 145604              | 51.867 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 103.740% |        |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 103657              | 53.067 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 106.140% |        |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 406203              | 54.241 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 108.480% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 133747              | 50.037 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = 100.080% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 2.971          | 94   | 642                 | 0.409  | ug/l # | 77       |
| 16) Acetone                   | 4.436          | 43   | 16667               | 14.473 | ug/l   | 94       |
| 18) Methyl Acetate            | 5.047          | 43   | 1948                | 0.679  | ug/l # | 53       |
| 20) Methylene Chloride        | 5.277          | 84   | 6931                | 2.983  | ug/l # | 86       |
| 25) 2-Butanone                | 7.488          | 43   | 1599                | 0.916  | ug/l # | 43       |
| 29) Tetrahydrofuran           | 7.847          | 42   | 231                 | 0.206  | ug/l # | 47       |
| 31) Cyclohexane               | 8.224          | 56   | 5665                | 1.263  | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 17267               | 5.271  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.577          | 43   | 4298                | 1.172  | ug/l # | 93       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 19293               | 5.810  | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.677          | 62   | 1223                | 0.326  | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.688          | 43   | 251049              | 38.644 | ug/l # | 72       |
| 45) 1,2-Dichloropropane       | 9.741          | 63   | 1598                | 0.634  | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.741          | 41   | 151887              | 49.067 | ug/l # | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.359         | 43   | 133093              | 36.058 | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 50002               | 13.074 | ug/l # | 75       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 1415                | 0.391  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200         | 76   | 6515                | 1.636  | ug/l # | 42       |
| 59) 2-Hexanone                | 11.200         | 43   | 104285              | 38.587 | ug/l # | 47       |
| 74) N-amyl acetate            | 12.488         | 43   | 2062                | 0.398  | ug/l # | 39       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 78174               | 31.344 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 78174               | 73.313 | ug/l # | 13       |

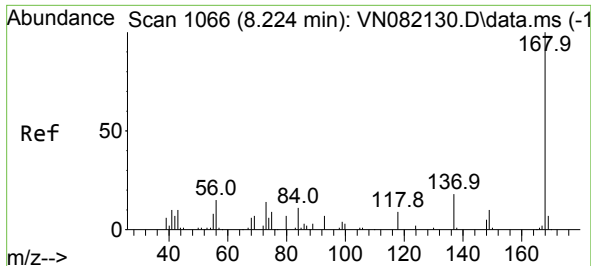
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051724\  
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Sample : PB160967ZHE#01  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

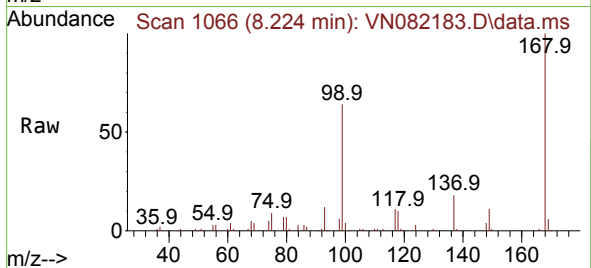
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration



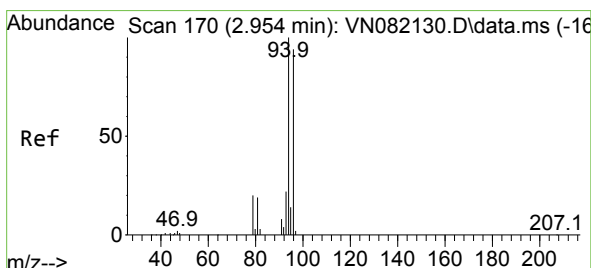
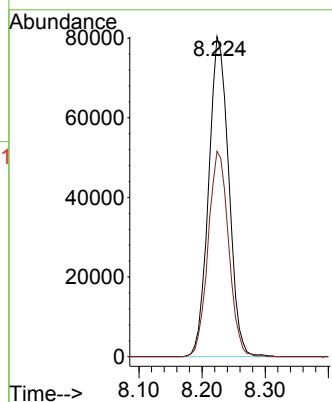
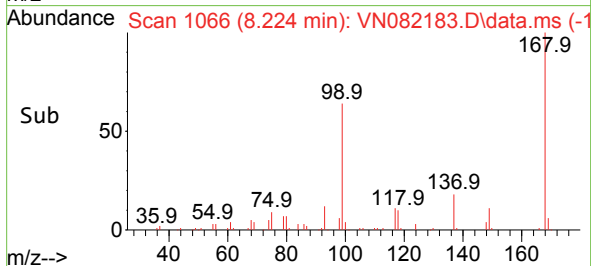


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

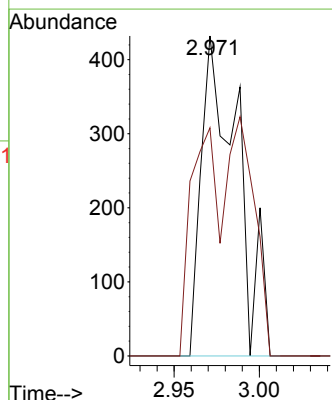
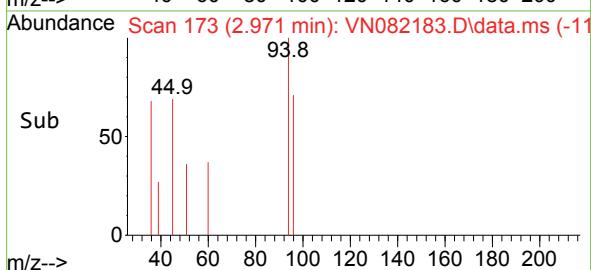
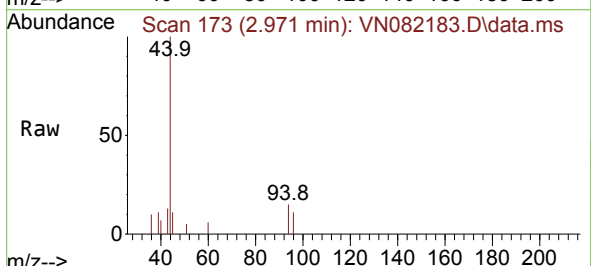


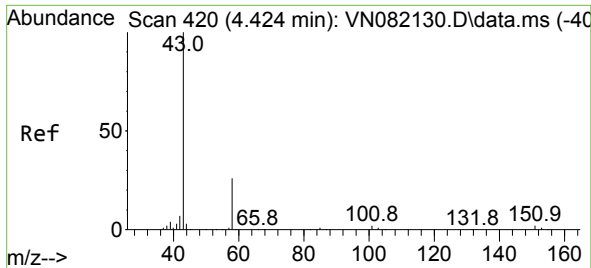
Tgt Ion:168 Resp: 177785  
Ion Ratio Lower Upper  
168 100  
99 64.1 48.2 72.4



#5  
Bromomethane  
Concen: 0.409 ug/l  
RT: 2.971 min Scan# 173  
Delta R.T. 0.018 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 94 Resp: 642  
Ion Ratio Lower Upper  
94 100  
96 71.3 74.8 112.2#

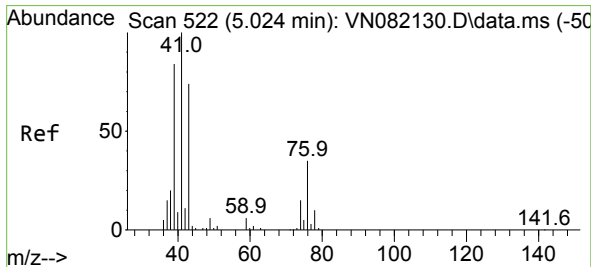
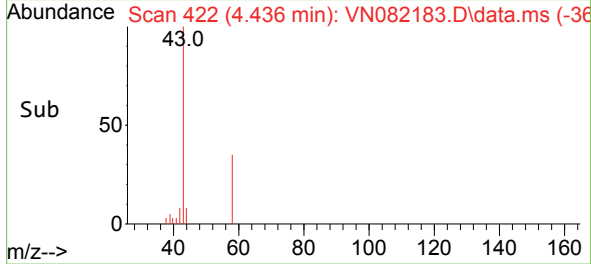
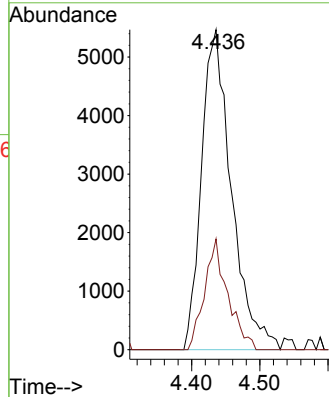
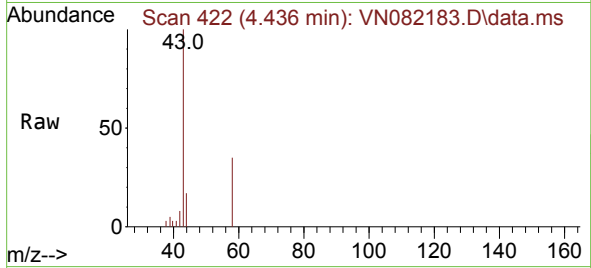




#16  
Acetone  
Concen: 14.473 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

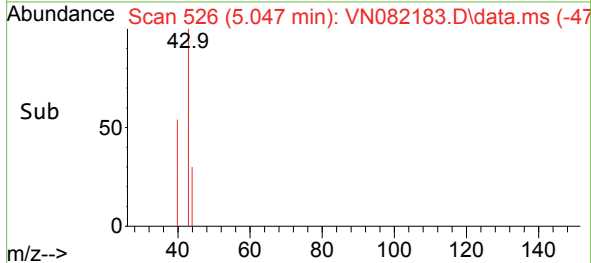
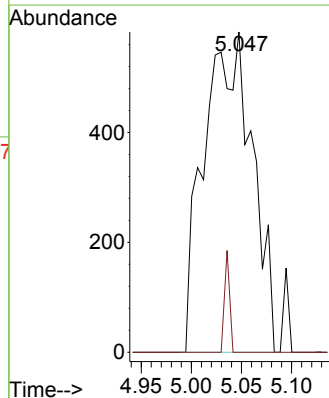
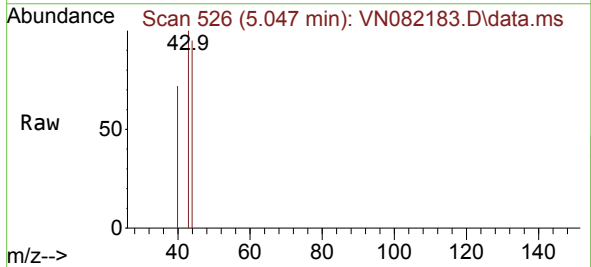
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

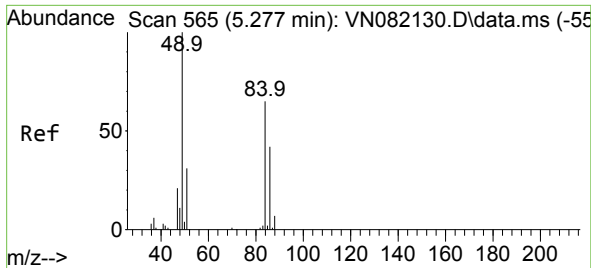
Tgt Ion: 43 Resp: 16667  
Ion Ratio Lower Upper  
43 100  
58 34.6 25.2 37.8



#18  
Methyl Acetate  
Concen: 0.679 ug/l  
RT: 5.047 min Scan# 526  
Delta R.T. 0.023 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

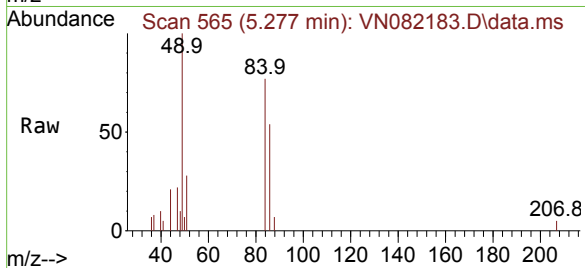
Tgt Ion: 43 Resp: 1948  
Ion Ratio Lower Upper  
43 100  
74 3.3 22.2 33.2#



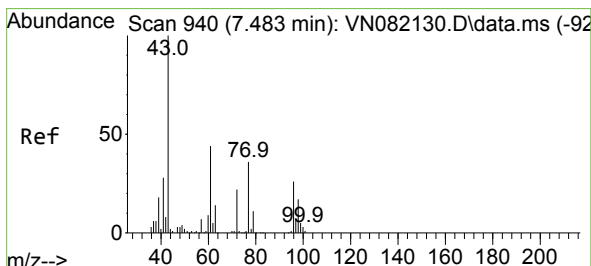
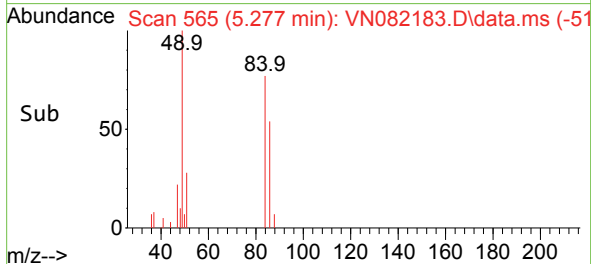
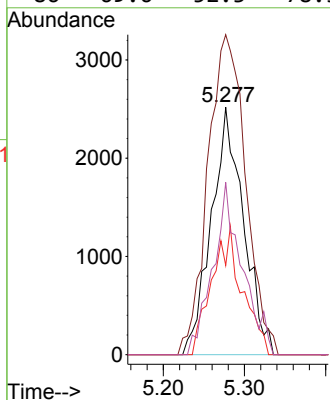


#20  
Methylene Chloride  
Concen: 2.983 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

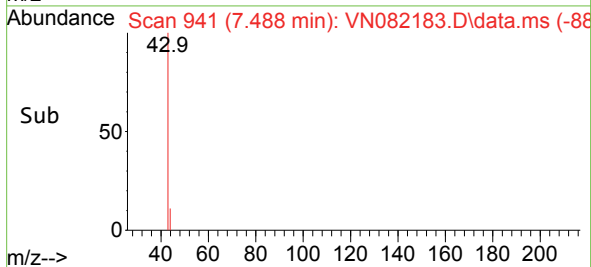
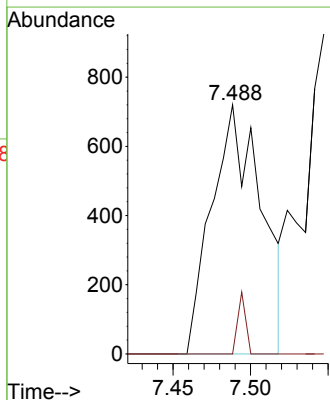
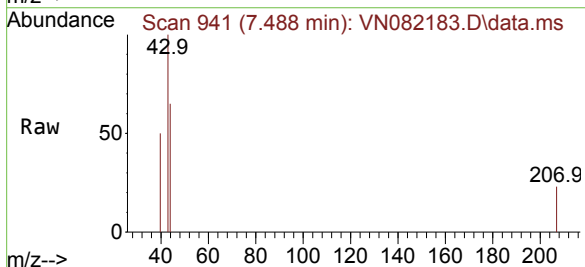


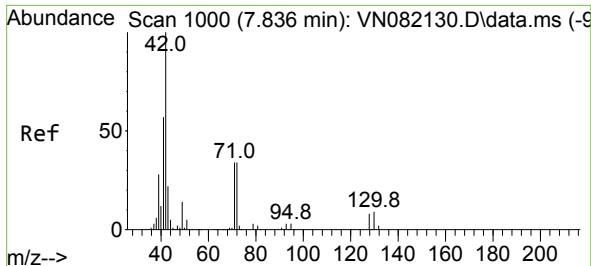
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 6931   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 129.3 | 84.9  | 127.3# |
| 51       | 36.1  | 27.0  | 40.6   |
| 86       | 69.6  | 52.3  | 78.5   |



#25  
2-Butanone  
Concen: 0.916 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1599  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 25.3  | 37.9# |





#29

Tetrahydrofuran

Concen: 0.206 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.011 min

Lab File: VN082183.D

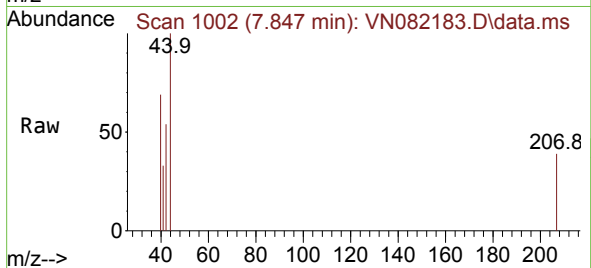
Acq: 17 May 2024 16:58

Instrument :

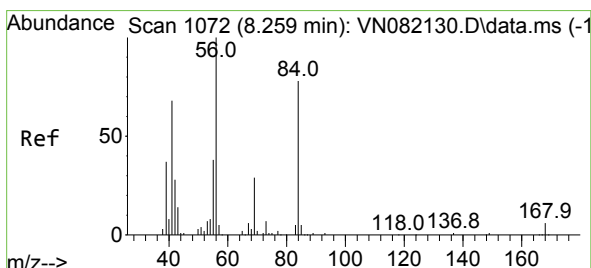
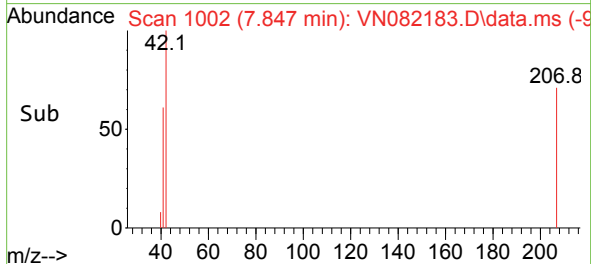
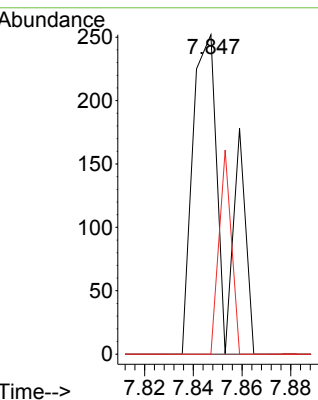
MSVOA\_N

ClientSampleId :

PB160967ZHE#01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 231   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 39.3  | 58.9# |
| 71       | 24.7  | 37.4  | 56.0# |



#31

Cyclohexane

Concen: 1.263 ug/l

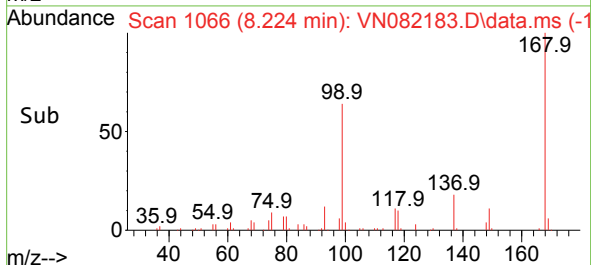
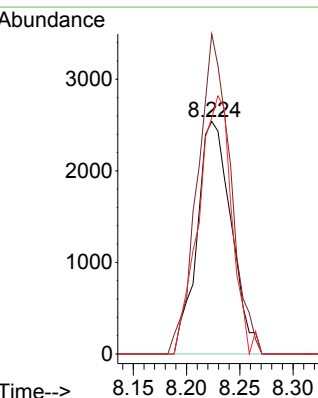
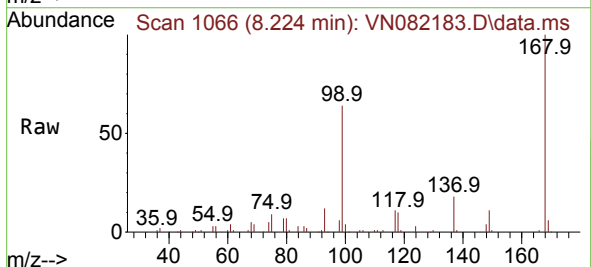
RT: 8.224 min Scan# 1066

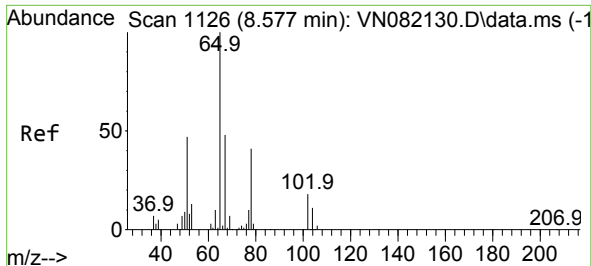
Delta R.T. -0.035 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5665  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 137.6 | 24.4  | 36.6# |
| 84       | 101.5 | 77.0  | 115.4 |





#33

1,2-Dichloroethane-d4

Concen: 51.867 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

Instrument :

MSVOA\_N

ClientSampleId :

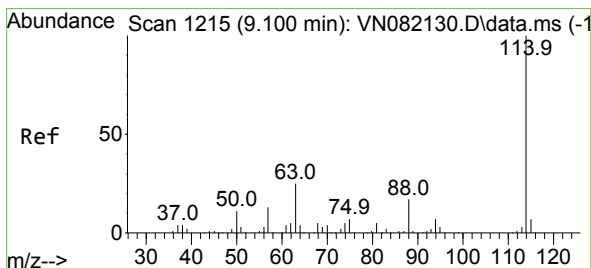
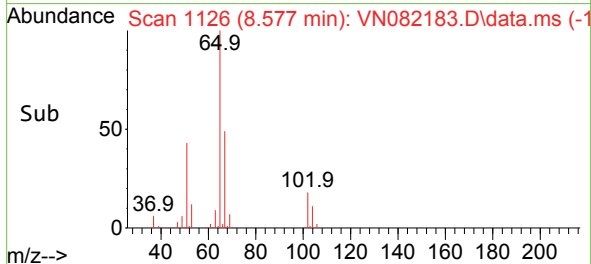
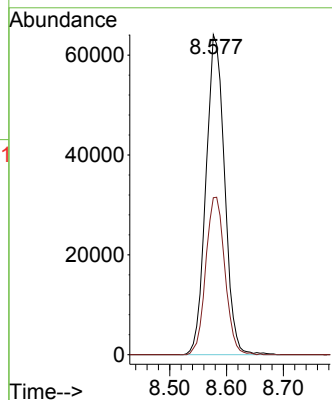
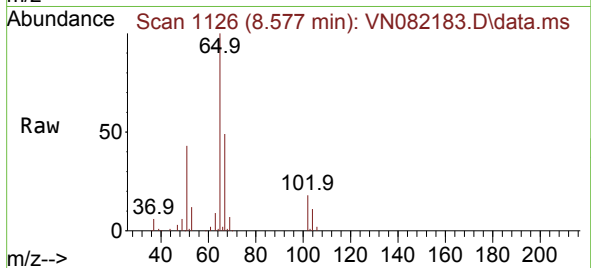
PB160967ZHE#01

Tgt Ion: 65 Resp: 145604

Ion Ratio Lower Upper

65 100

67 50.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

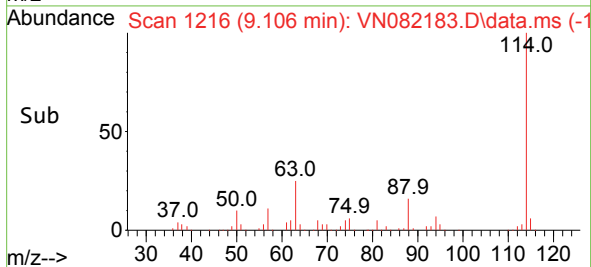
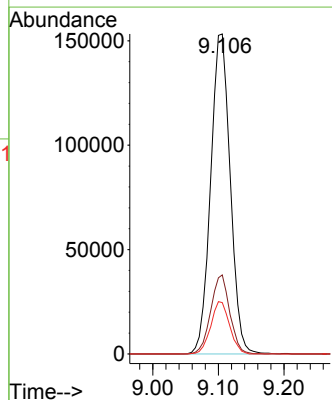
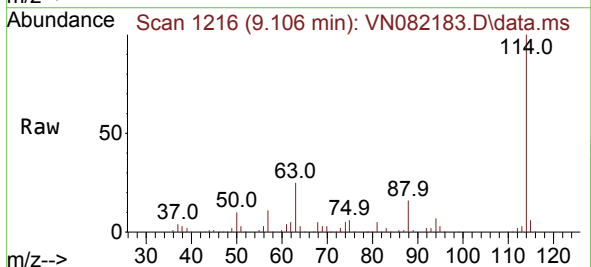
Tgt Ion: 114 Resp: 317533

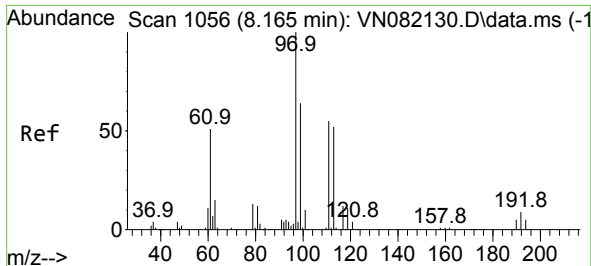
Ion Ratio Lower Upper

114 100

63 24.7 0.0 41.0

88 16.0 0.0 31.4

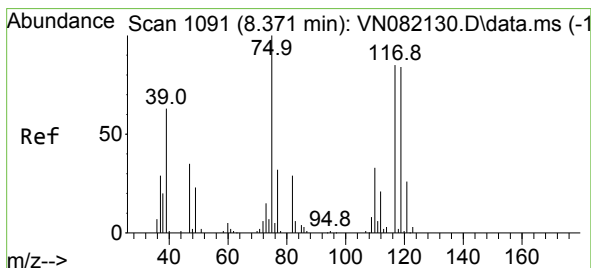
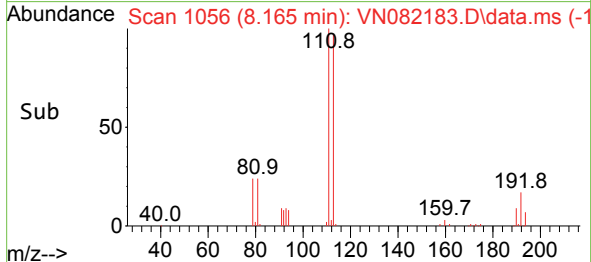
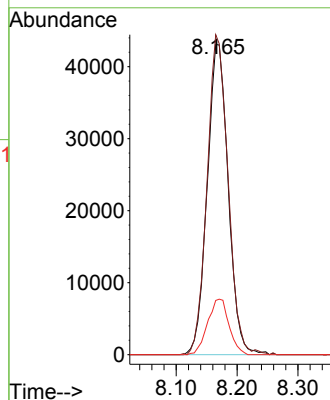
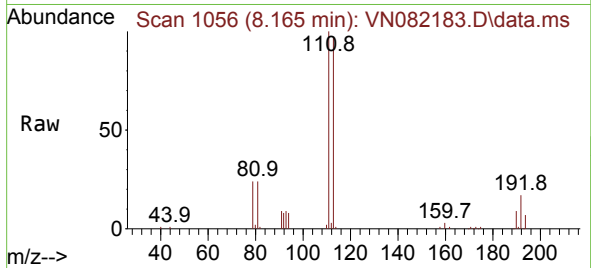




#35  
Dibromofluoromethane  
Concen: 53.067 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

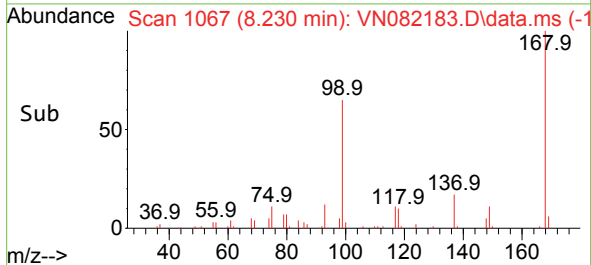
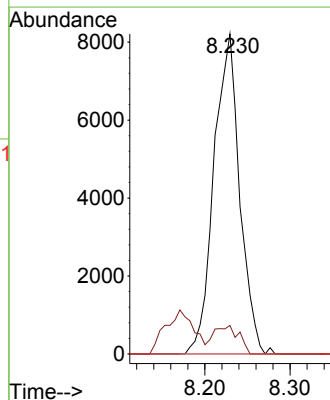
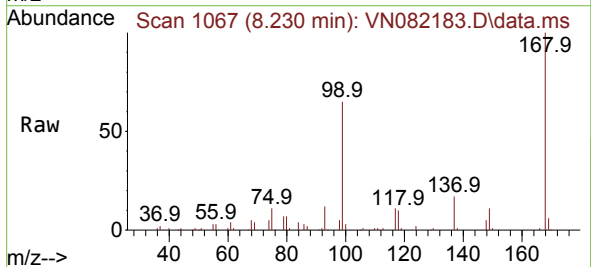
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

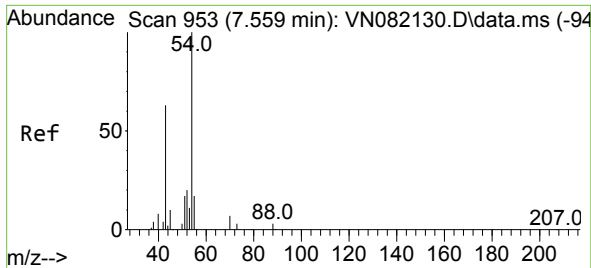
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Ion Ratio Lower Upper  
113 100  
111 102.5 83.4 125.2  
192 18.1 14.0 21.0



#36  
1,1-Dichloropropene  
Concen: 5.271 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 75 Resp: 17267  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.8 53.5#  
77 0.0 25.0 37.4#

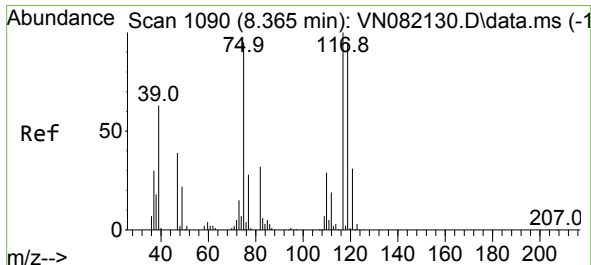
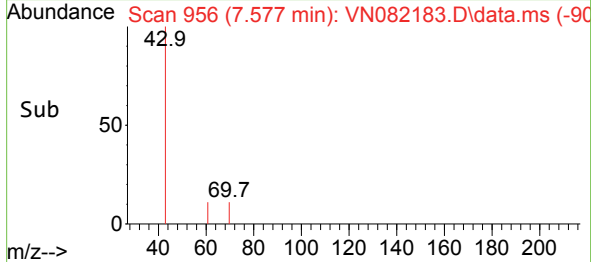
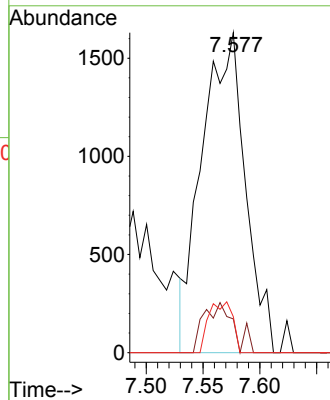
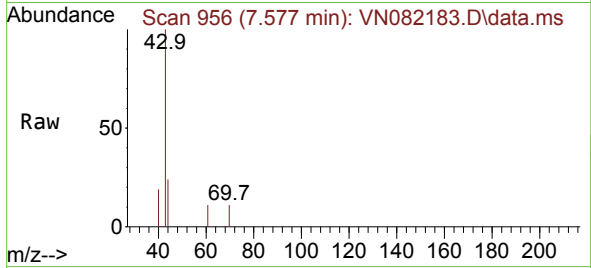




#37  
Ethyl Acetate  
Concen: 1.172 ug/l  
RT: 7.577 min Scan# 91  
Delta R.T. 0.018 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

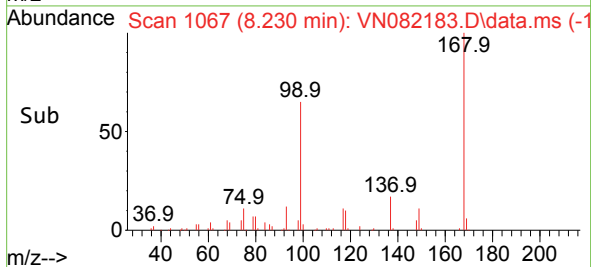
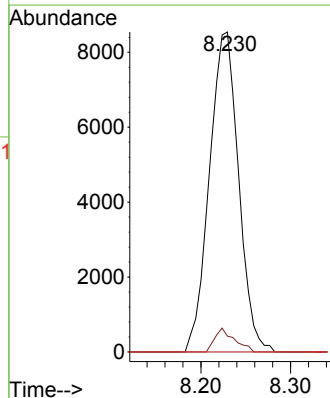
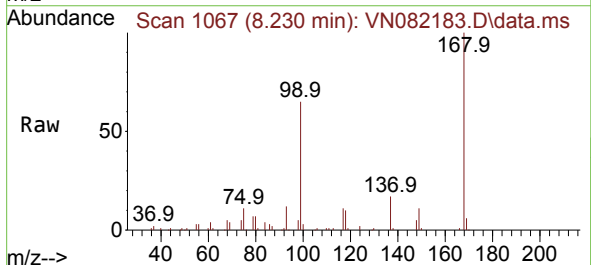
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

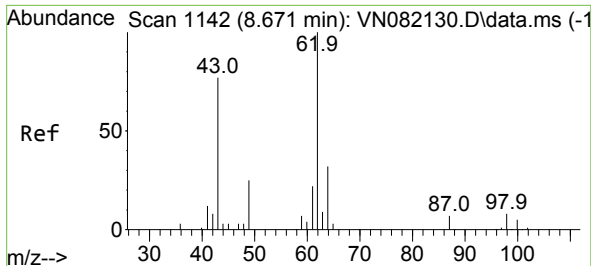
Tgt Ion: 43 Resp: 4298  
Ion Ratio Lower Upper  
43 100  
61 10.9 11.3 16.9#  
70 8.8 8.7 13.1



#38  
Carbon Tetrachloride  
Concen: 5.810 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 117 Resp: 19293  
Ion Ratio Lower Upper  
117 100  
119 5.0 76.5 114.7#  
121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.326 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

Instrument :

MSVOA\_N

ClientSampleId :

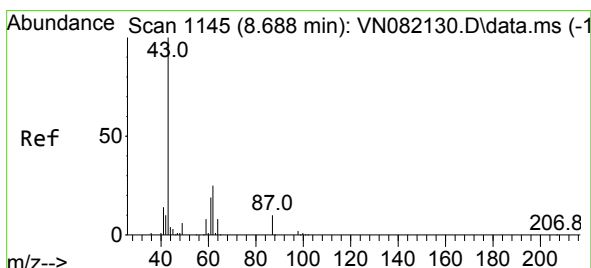
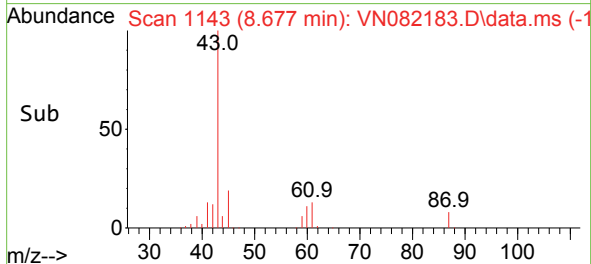
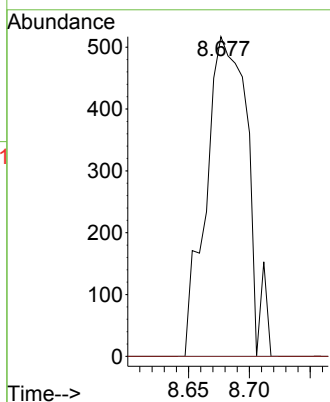
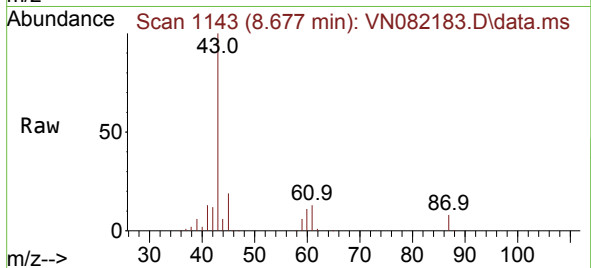
PB160967ZHE#01

Tgt Ion: 62 Resp: 1223

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 38.644 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

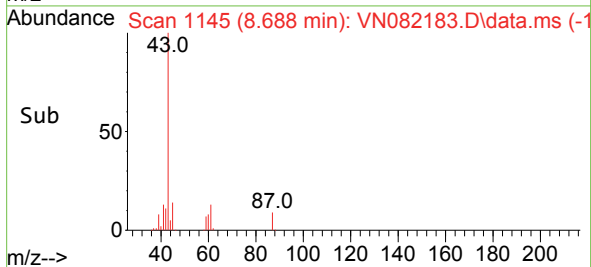
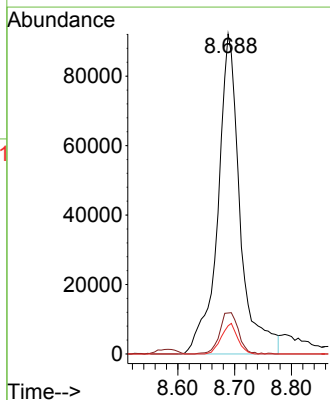
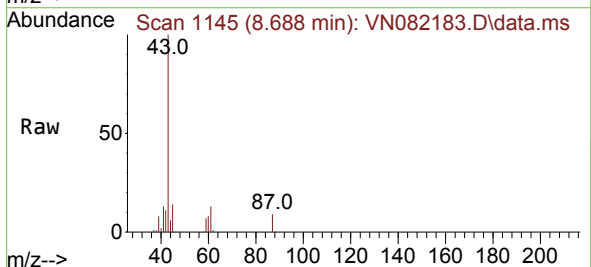
Tgt Ion: 43 Resp: 251049

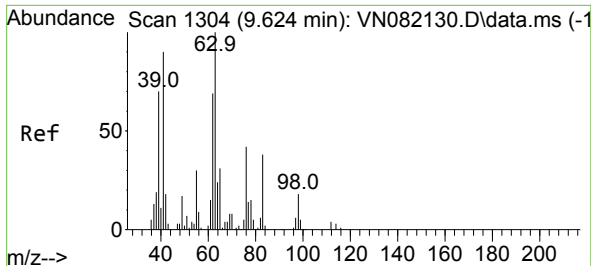
Ion Ratio Lower Upper

43 100

61 11.0 22.8 34.2#

87 7.0 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.634 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

Instrument :

MSVOA\_N

ClientSampleId :

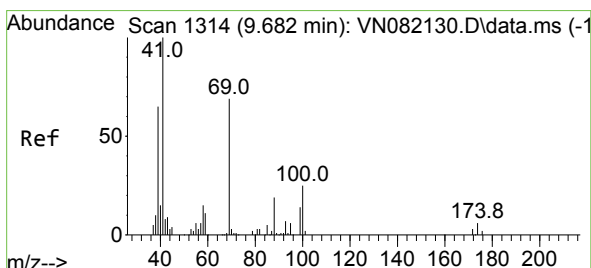
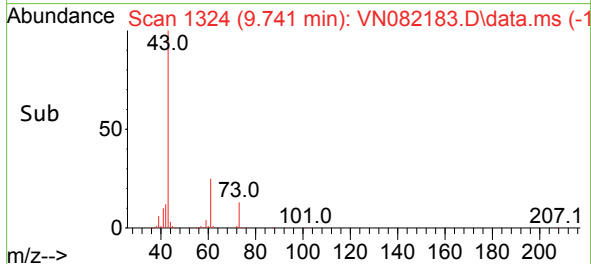
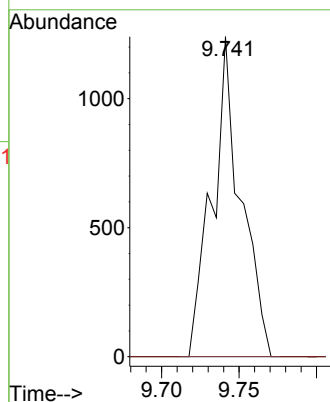
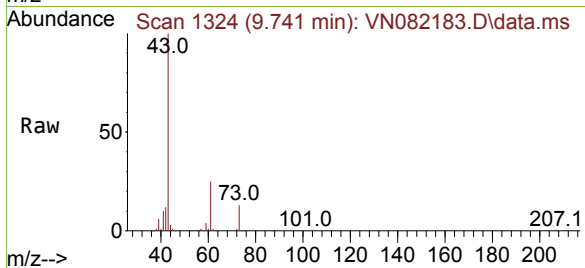
PB160967ZHE#01

Tgt Ion: 63 Resp: 1598

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 49.067 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

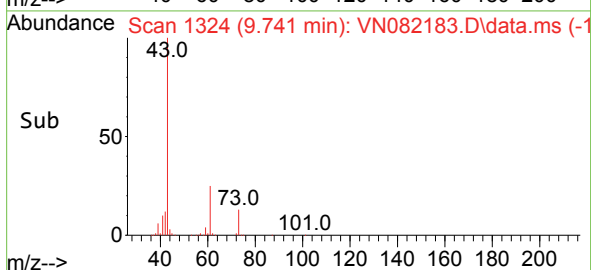
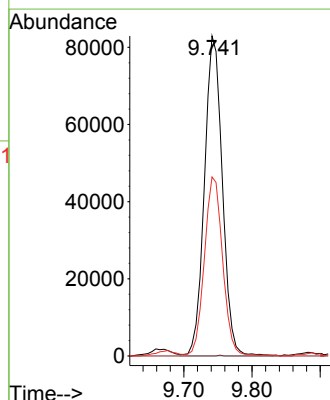
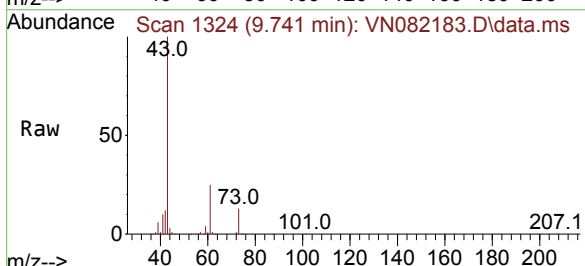
Tgt Ion: 41 Resp: 151887

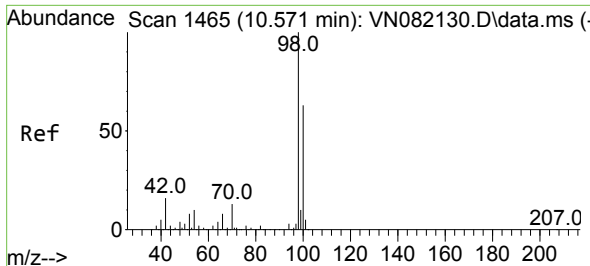
Ion Ratio Lower Upper

41 100

69 0.1 77.9 116.9#

39 57.1 50.9 76.3

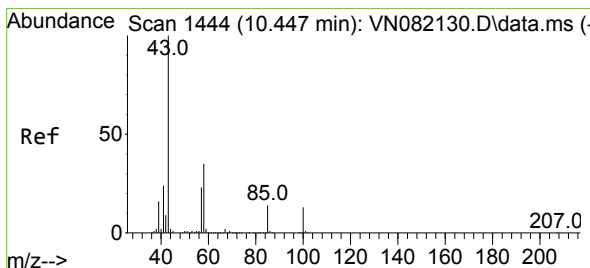
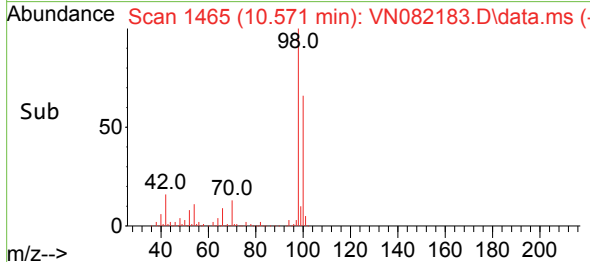
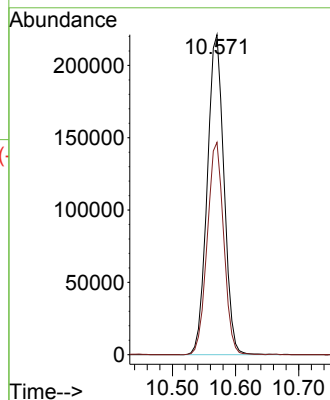
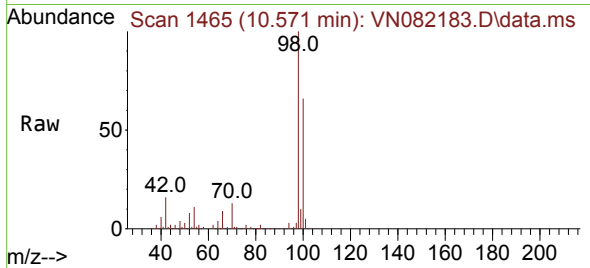




#50  
Toluene-d8  
Concen: 54.241 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

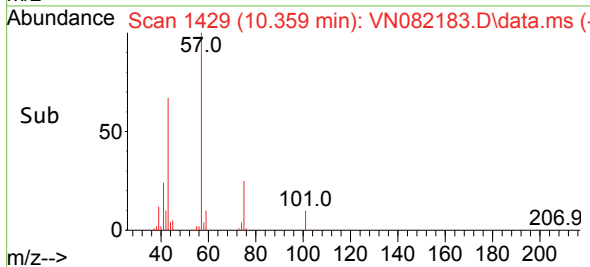
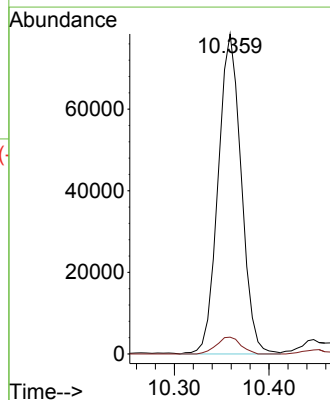
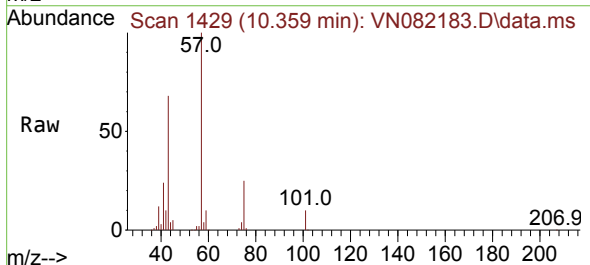
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

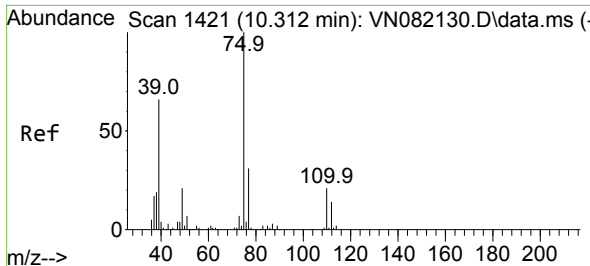
Tgt Ion: 98 Resp: 406203  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 36.058 ug/l  
RT: 10.359 min Scan# 1429  
Delta R.T. -0.088 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 43 Resp: 133093  
Ion Ratio Lower Upper  
43 100  
58 5.5 33.2 49.8#

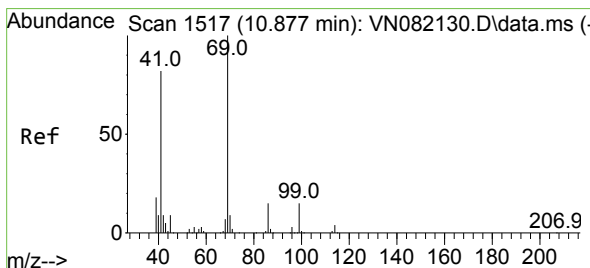
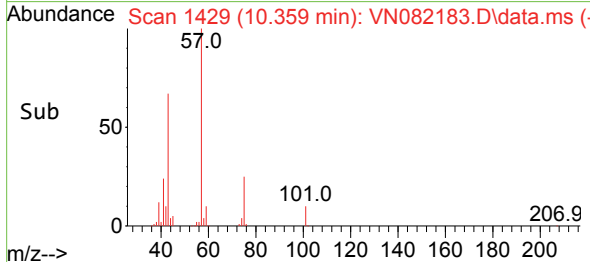
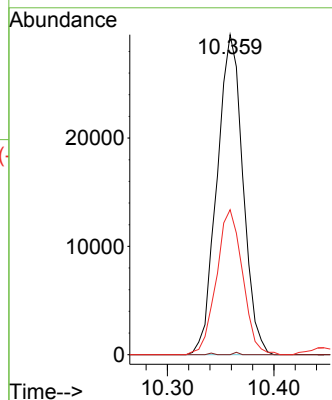
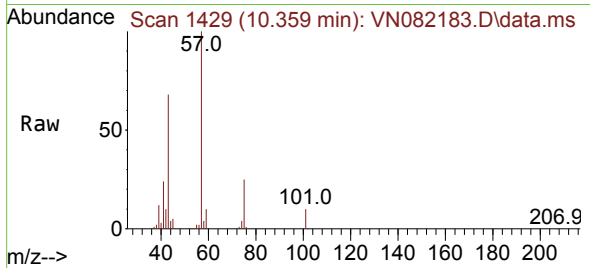




#54  
 cis-1,3-Dichloropropene  
 Concen: 13.074 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN082183.D  
 Acq: 17 May 2024 16:58

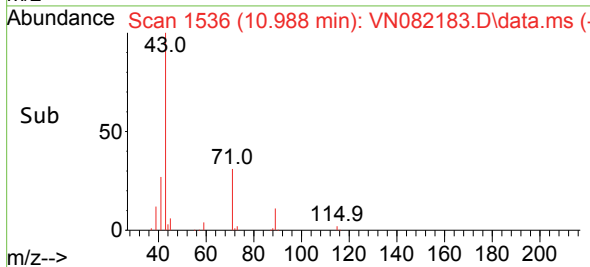
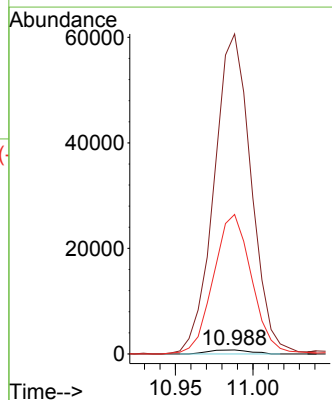
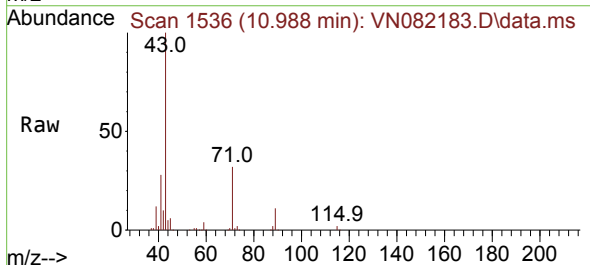
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB160967ZHE#01

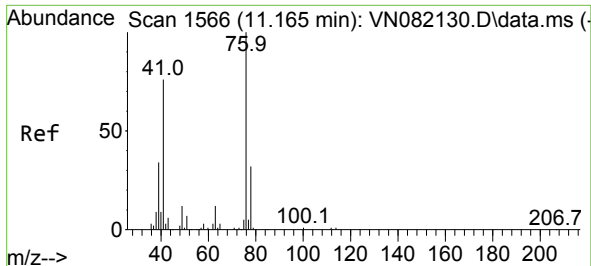
Tgt Ion: 75 Resp: 50002  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.4#  
 39 45.3 34.8 52.2



#56  
 Ethyl methacrylate  
 Concen: 0.391 ug/l  
 RT: 10.988 min Scan# 1536  
 Delta R.T. 0.112 min  
 Lab File: VN082183.D  
 Acq: 17 May 2024 16:58

Tgt Ion: 69 Resp: 1415  
 Ion Ratio Lower Upper  
 69 100  
 41 7154.1 46.6 70.0#  
 39 3215.6 26.5 39.7#





#57

1,3-Dichloropropane

Concen: 1.636 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN082183.D

Acq: 17 May 2024 16:58

Instrument :

MSVOA\_N

ClientSampleId :

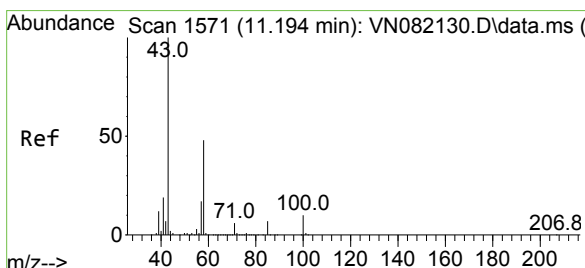
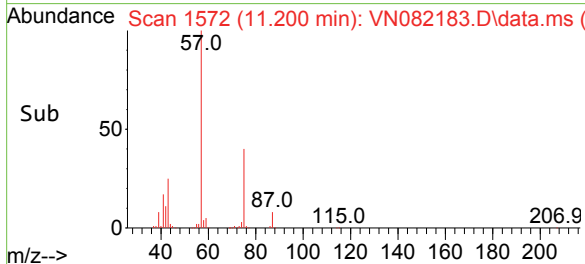
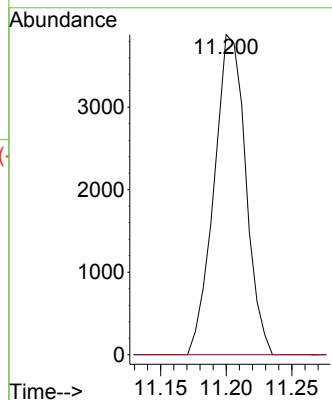
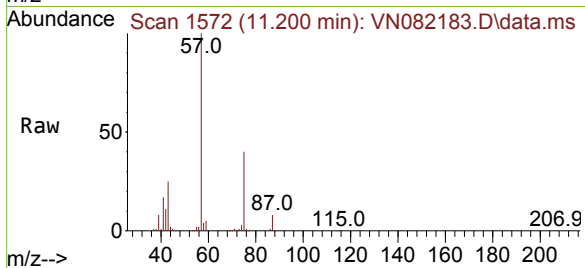
PB160967ZHE#01

Tgt Ion: 76 Resp: 6515

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 38.587 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN082183.D

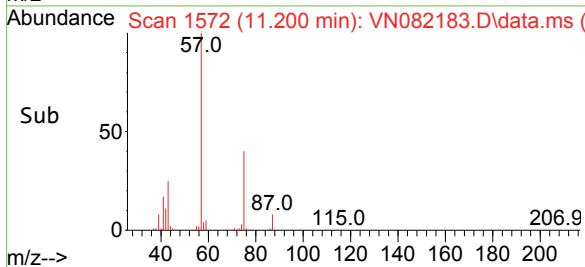
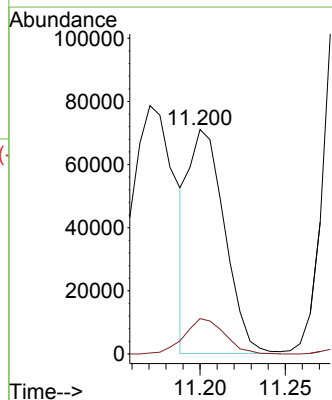
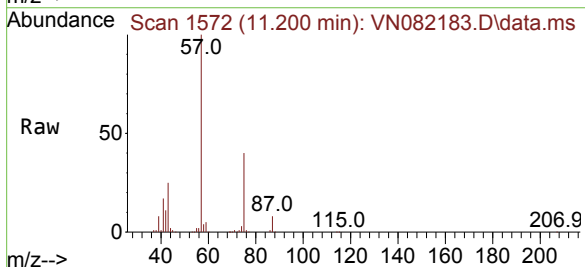
Acq: 17 May 2024 16:58

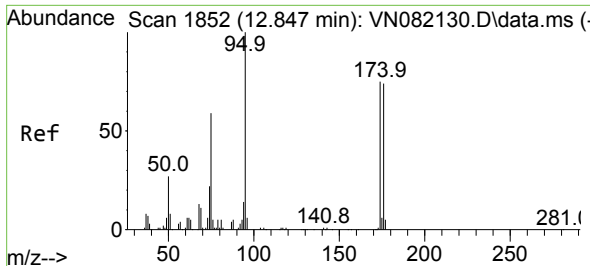
Tgt Ion: 43 Resp: 104285

Ion Ratio Lower Upper

43 100

58 17.7 28.3 84.9#

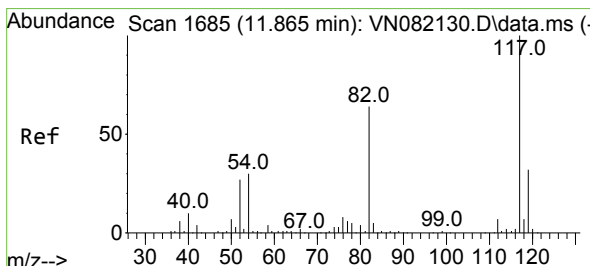
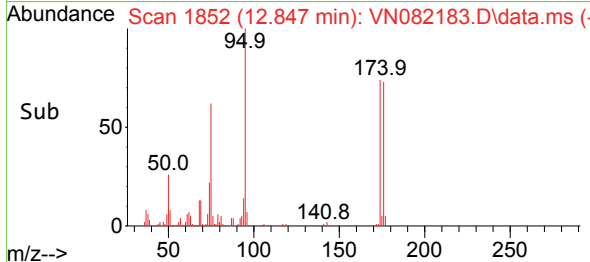
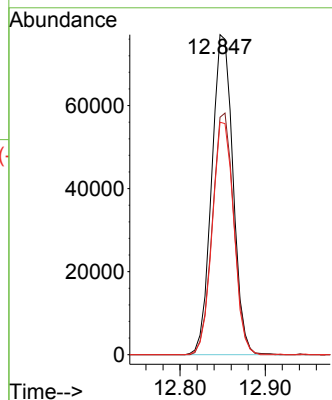
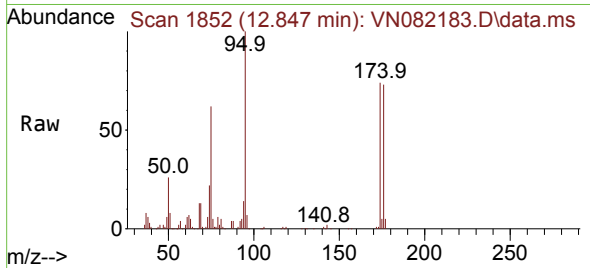




#62  
4-Bromofluorobenzene  
Concen: 50.037 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

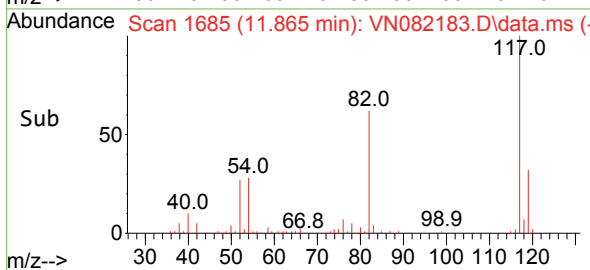
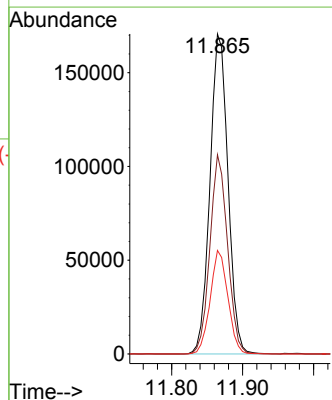
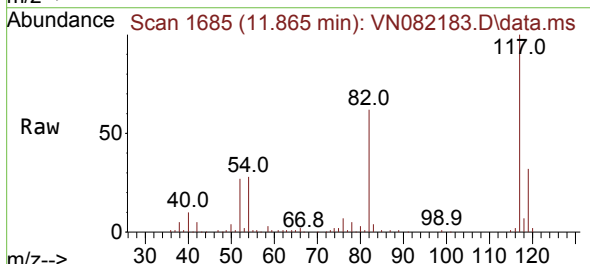
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

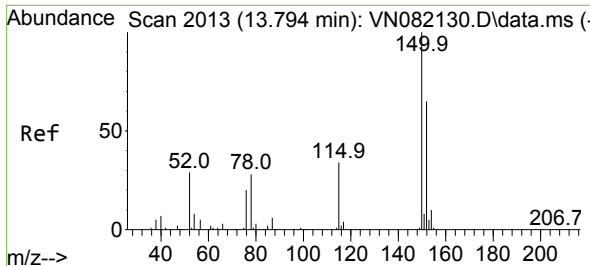
Tgt Ion: 95 Resp: 133747  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 160.6  
176 73.3 0.0 152.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

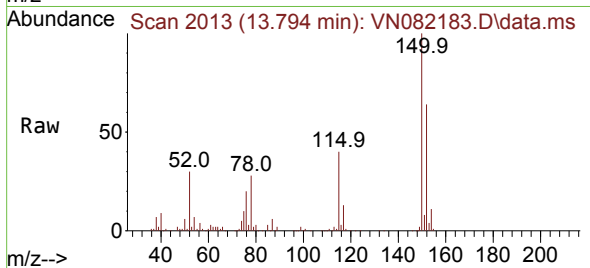
Tgt Ion: 117 Resp: 300169  
Ion Ratio Lower Upper  
117 100  
82 62.2 44.6 66.8  
119 32.4 25.9 38.9



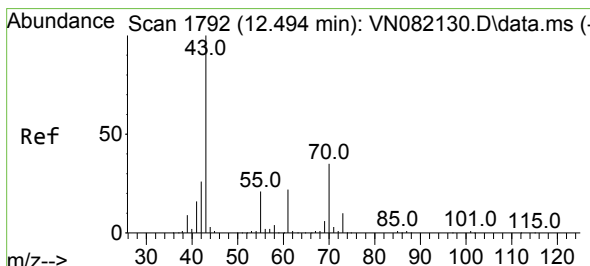
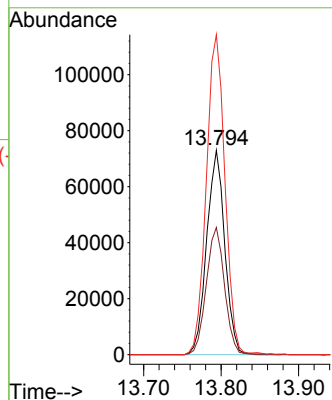
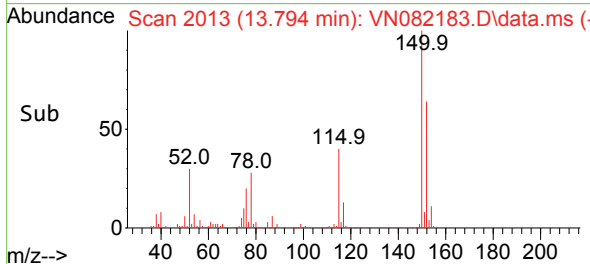


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

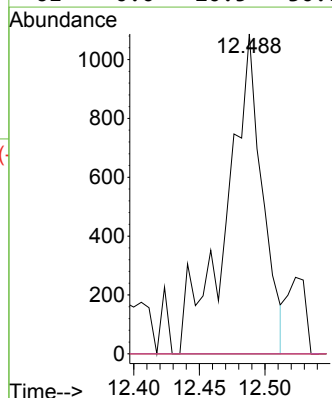
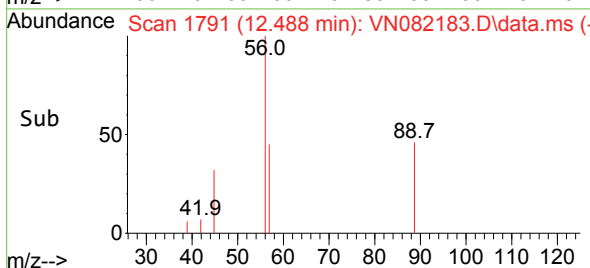
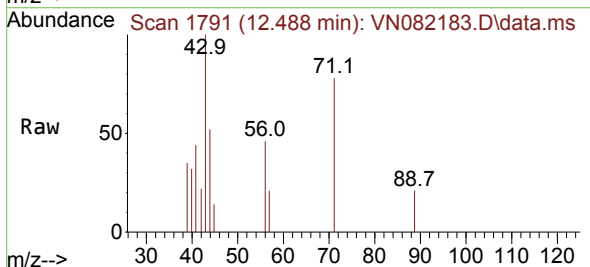


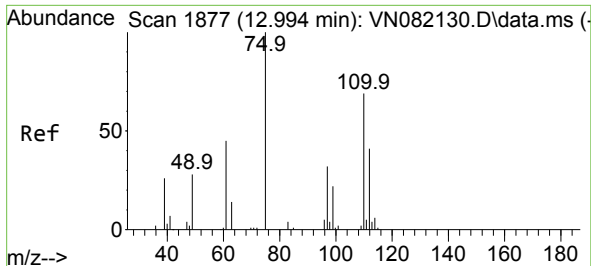
Tgt Ion:152 Resp: 118496  
Ion Ratio Lower Upper  
152 100  
115 62.5 30.4 91.3  
150 160.9 0.0 353.2



#74  
N-ethyl acetate  
Concen: 0.398 ug/l  
RT: 12.488 min Scan# 1791  
Delta R.T. -0.006 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 43 Resp: 2062  
Ion Ratio Lower Upper  
43 100  
70 0.0 39.0 58.4#  
55 0.0 21.3 31.9#  
61 0.0 20.5 30.7#

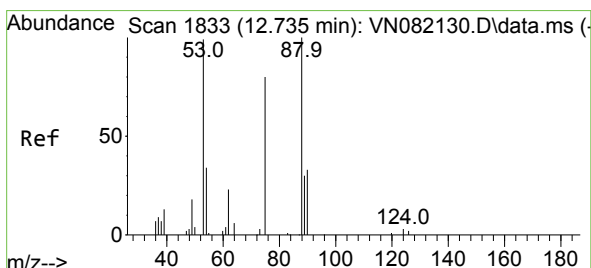
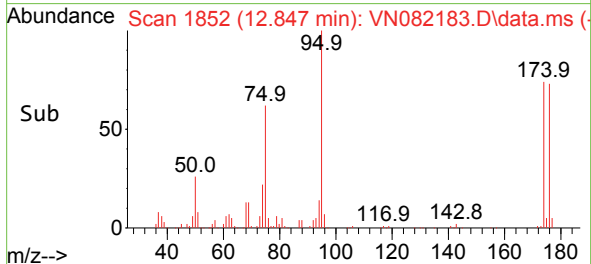
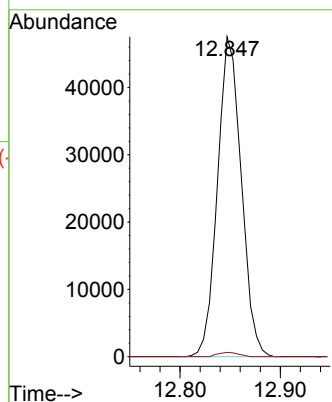
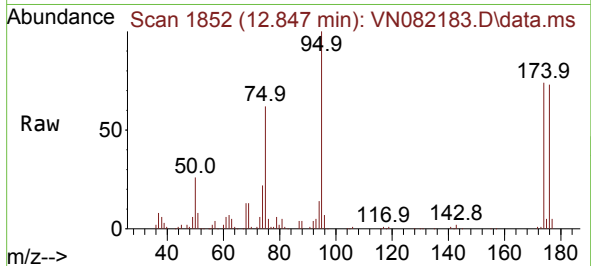




#76  
1,2,3-Trichloropropane  
Concen: 31.344 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB160967ZHE#01

Tgt Ion: 75 Resp: 78174  
Ion Ratio Lower Upper  
75 100  
77 1.2 90.5 271.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.313 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN082183.D  
Acq: 17 May 2024 16:58

Tgt Ion: 75 Resp: 78174  
Ion Ratio Lower Upper  
75 100  
53 0.1 72.9 109.3#  
89 0.0 39.1 58.7#

