

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120325\  
 Data File : VN088433.D  
 Acq On : 03 Dec 2025 16:37  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Dec 04 00:23:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112425W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 25 01:34:52 2025  
 Response via : Initial Calibration

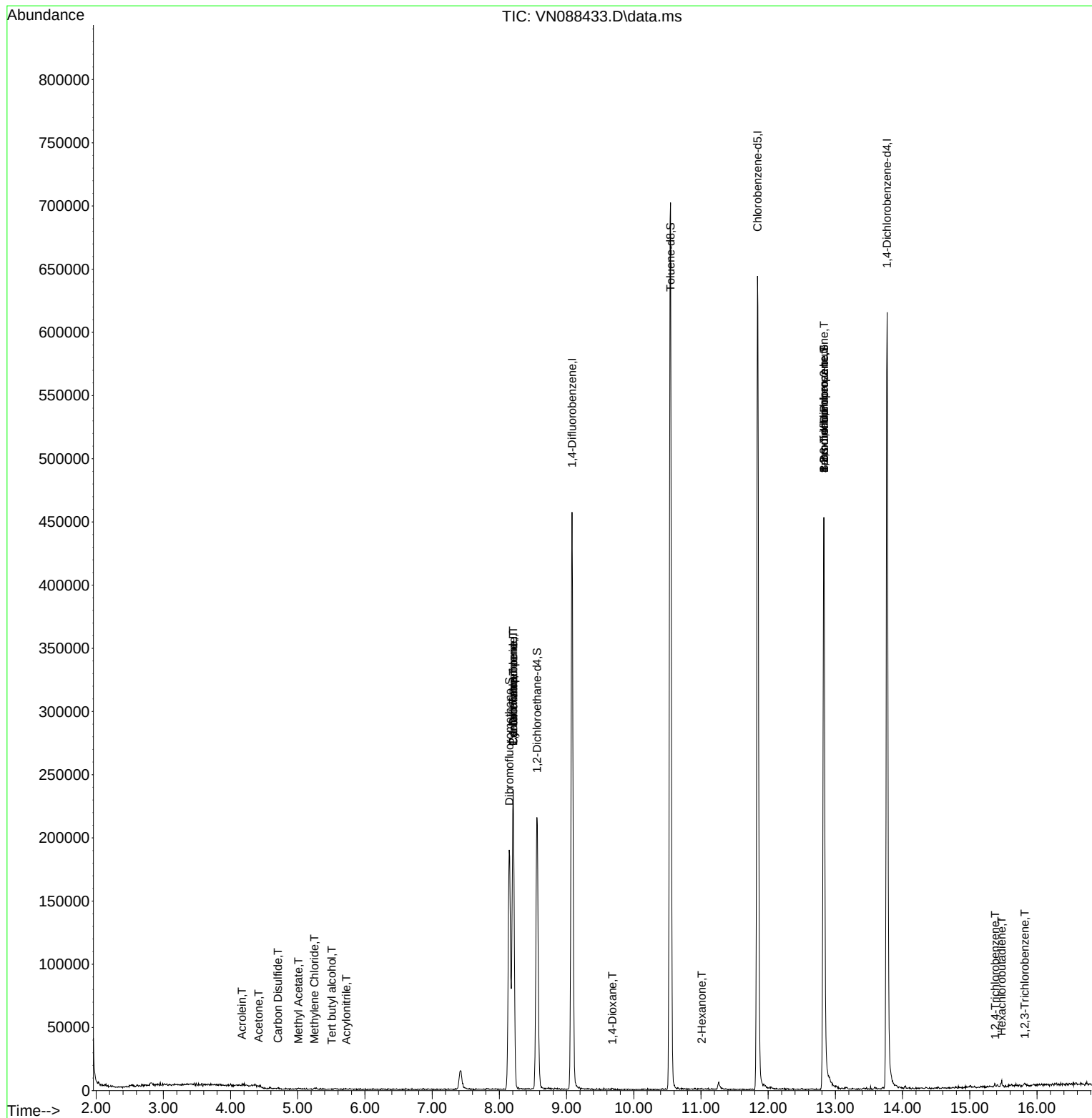
| Compound                      | R.T.           | QIon | Response             | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|--------|--------|----------|
| -----                         |                |      |                      |        |        |          |
| Internal Standards            |                |      |                      |        |        |          |
| 1) Pentafluorobenzene         | 8.206          | 168  | 150677               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.082          | 114  | 352223               | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.841         | 117  | 350311               | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.770         | 152  | 158132               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                      |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.559          | 65   | 187716               | 66.133 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 132.260%# |        |        |          |
| 35) Dibromofluoromethane      | 8.147          | 113  | 137531               | 56.345 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 112.680%  |        |        |          |
| 50) Toluene-d8                | 10.547         | 98   | 472583               | 52.035 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 104.080%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.829         | 95   | 167019               | 53.597 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 107.200%  |        |        |          |
| Target Compounds              |                |      |                      |        |        |          |
|                               |                |      |                      |        | Qvalue |          |
| 11) Tert butyl alcohol        | 5.506          | 59   | 125                  | 0.276  | ug/l # | 72       |
| 13) Acrolein                  | 4.171          | 56   | 580                  | 1.337  | ug/l   | 91       |
| 15) Acrylonitrile             | 5.724          | 53   | 594                  | 0.454  | ug/l # | 64       |
| 16) Acetone                   | 4.418          | 43   | 1378                 | 1.342  | ug/l # | 48       |
| 17) Carbon Disulfide          | 4.706          | 76   | 1574                 | 0.262  | ug/l # | 76       |
| 18) Methyl Acetate            | 5.012          | 43   | 1043                 | 0.341  | ug/l # | 65       |
| 20) Methylene Chloride        | 5.247          | 84   | 455                  | 0.207  | ug/l # | 25       |
| 31) Cyclohexane               | 8.206          | 56   | 5207                 | 1.395  | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 8.206          | 75   | 15831                | 4.202  | ug/l # | 53       |
| 38) Carbon Tetrachloride      | 8.206          | 117  | 17864                | 4.764  | ug/l # | 17       |
| 49) 1,4-Dioxane               | 9.682          | 88   | 510                  | 11.614 | ug/l # | 94       |
| 59) 2-Hexanone                | 11.012         | 43   | 726                  | 0.258  | ug/l   | 78       |
| 71) Bromoform                 | 12.829         | 173  | 1317                 | 0.678  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.829         | 75   | 98660                | 26.638 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.829         | 75   | 98660                | 75.570 | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.376         | 180  | 610                  | 0.209  | ug/l # | 61       |
| 94) Hexachlorobutadiene       | 15.476         | 225  | 1028                 | 0.982  | ug/l   | 82       |
| 96) 1,2,3-Trichlorobenzene    | 15.817         | 180  | 938                  | 0.331  | ug/l # | 29       |
| -----                         |                |      |                      |        |        |          |

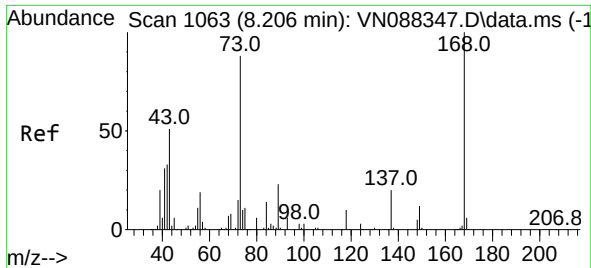
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Nov 25 01:34:52 2025  
Response via : Initial Calibration

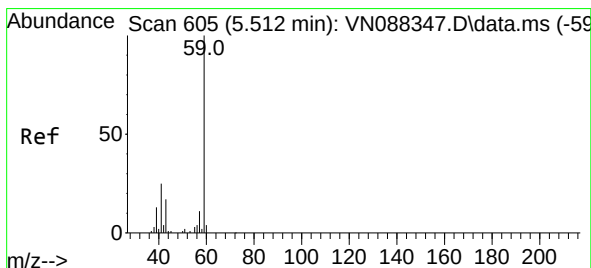
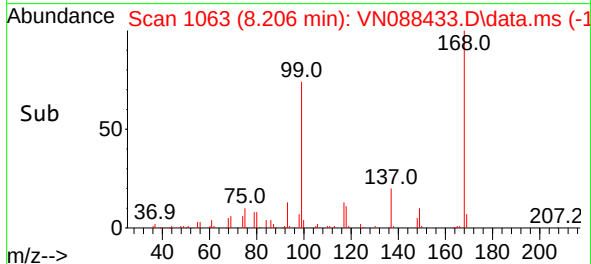
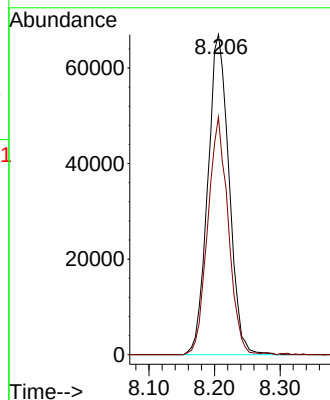
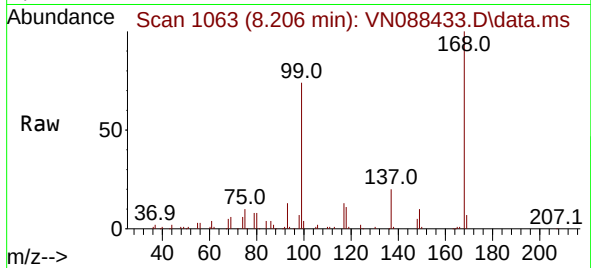




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.000 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

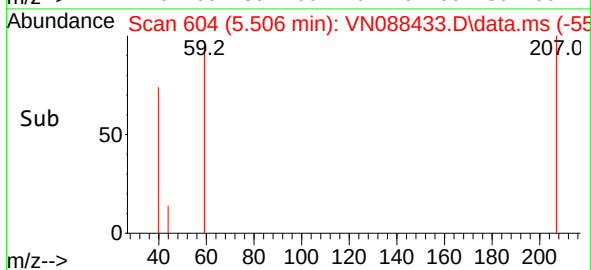
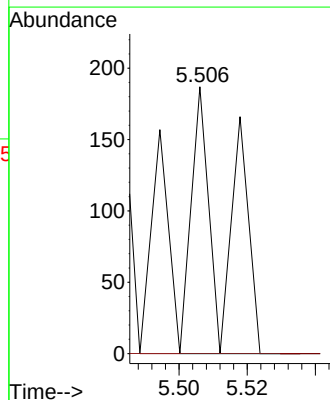
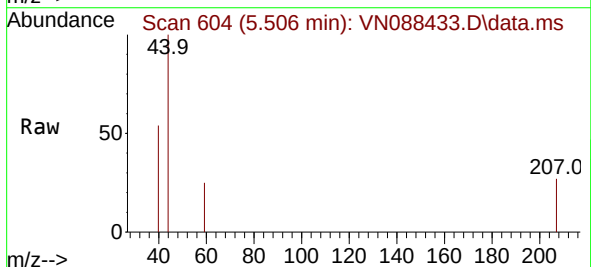
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

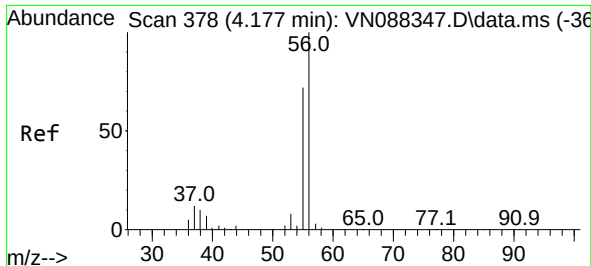
Tgt Ion:168 Resp: 150677  
Ion Ratio Lower Upper  
168 100  
99 74.3 57.1 85.7



#11  
Tert butyl alcohol  
Concen: 0.276 ug/l  
RT: 5.506 min Scan# 604  
Delta R.T. -0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 59 Resp: 125  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

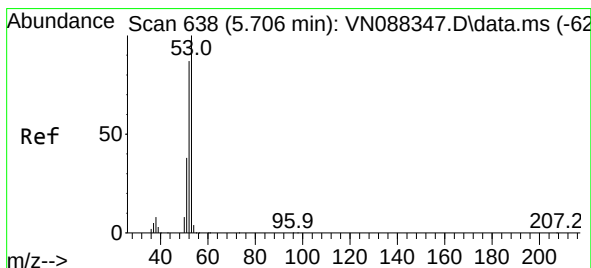
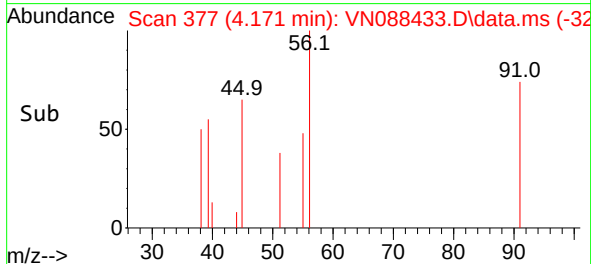
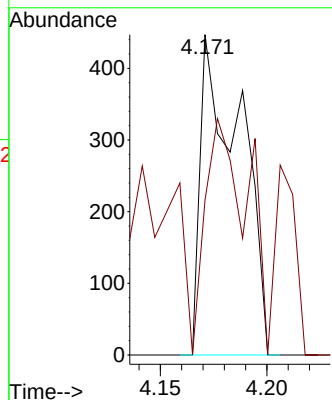
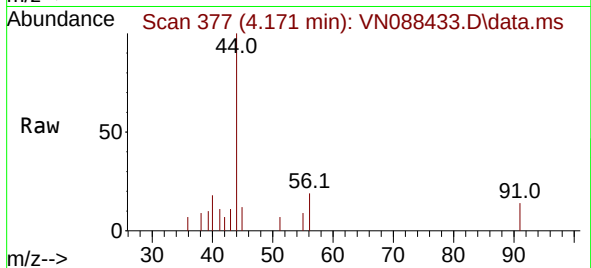




#13  
Acrolein  
Concen: 1.337 ug/l  
RT: 4.171 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

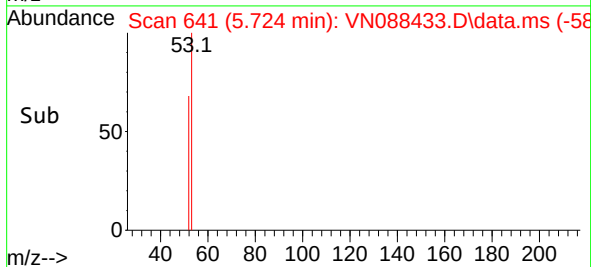
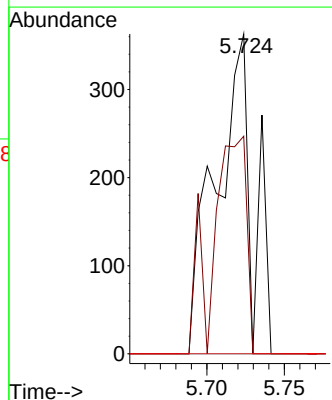
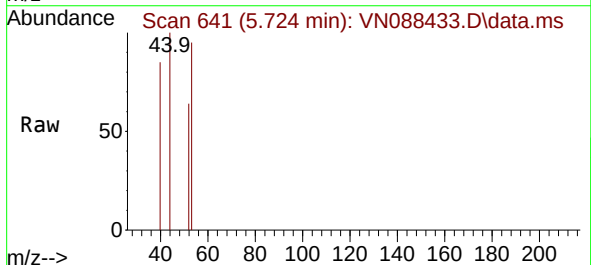
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

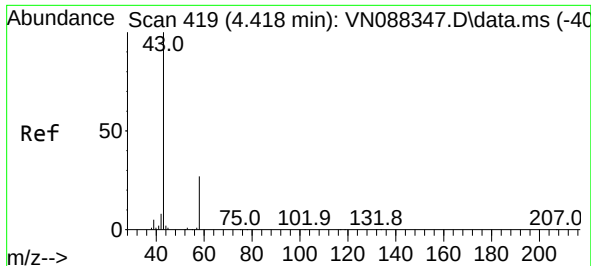
Tgt Ion: 56 Resp: 580  
Ion Ratio Lower Upper  
56 100  
55 78.1 56.3 84.5



#15  
Acrylonitrile  
Concen: 0.454 ug/l  
RT: 5.724 min Scan# 641  
Delta R.T. 0.018 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 53 Resp: 594  
Ion Ratio Lower Upper  
53 100  
52 63.1 67.8 101.6#  
51 0.0 29.8 44.8#

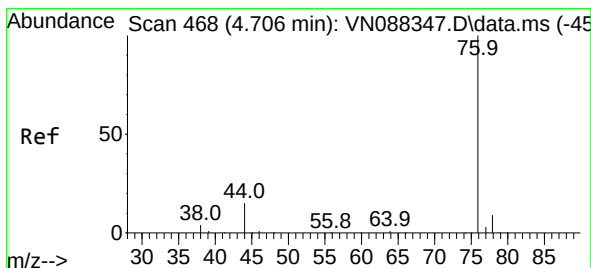
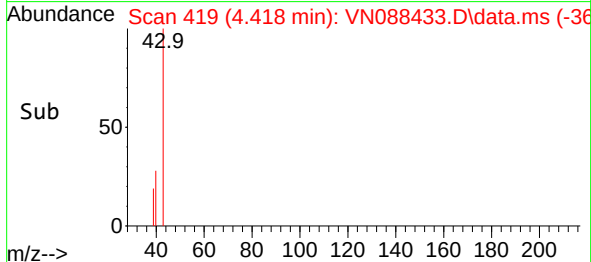
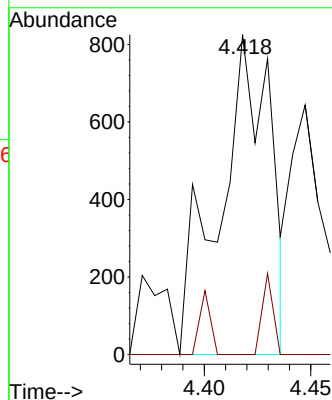
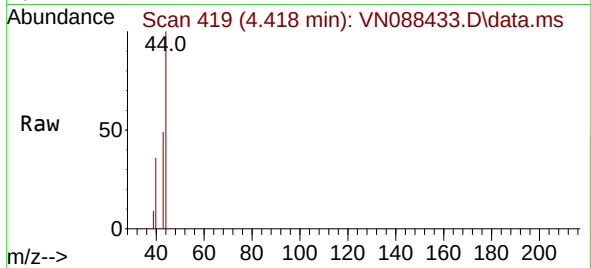




#16  
Acetone  
Concen: 1.342 ug/l  
RT: 4.418 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

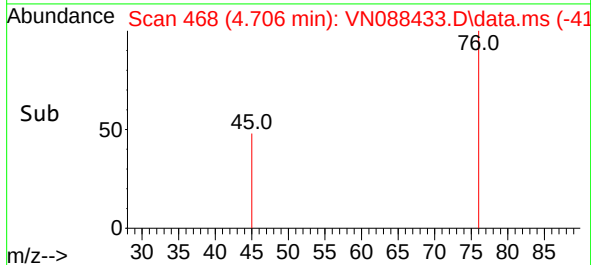
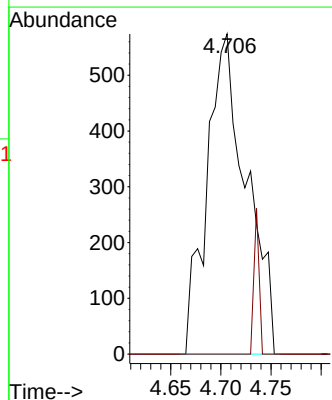
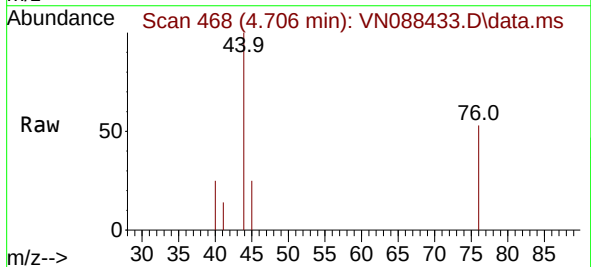
Instrument :  
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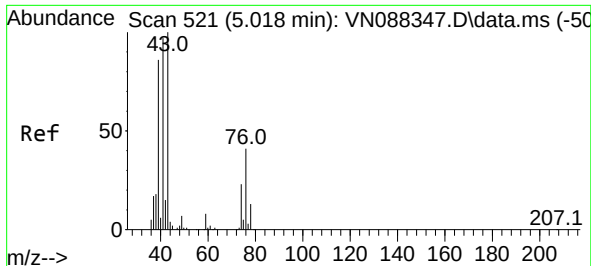
Tgt Ion: 43 Resp: 1378  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.7 32.5#



#17  
Carbon Disulfide  
Concen: 0.262 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.000 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 76 Resp: 1574  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.4#

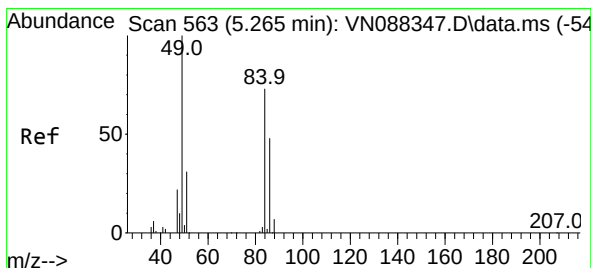
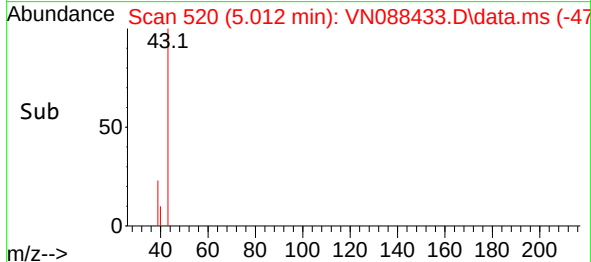
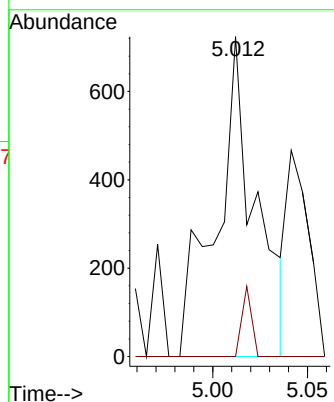
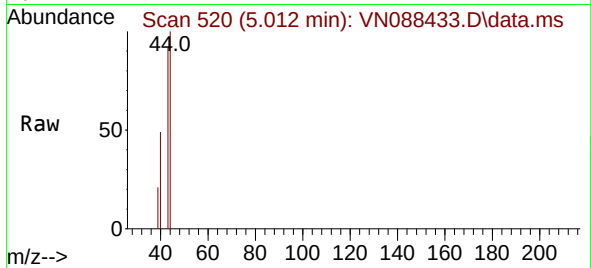




#18  
Methyl Acetate  
Concen: 0.341 ug/l  
RT: 5.012 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

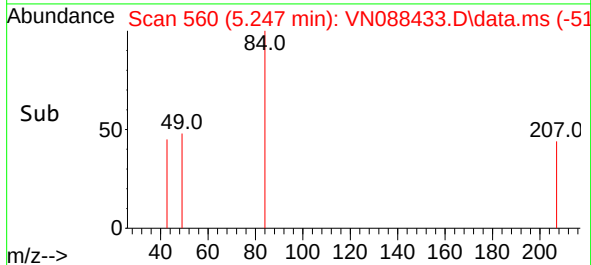
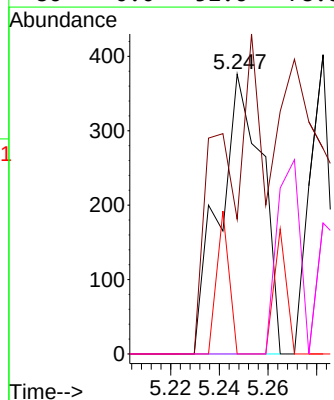
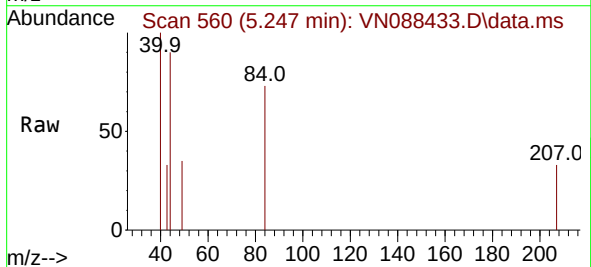
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

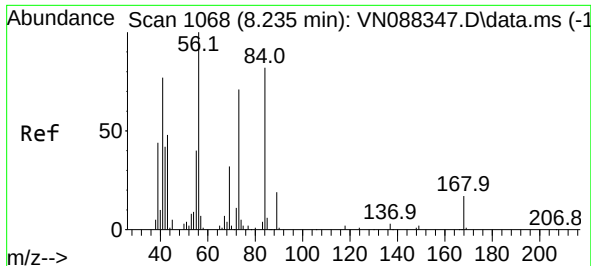
Tgt Ion: 43 Resp: 1043  
Ion Ratio Lower Upper  
43 100  
74 5.4 17.9 26.9#



#20  
Methylene Chloride  
Concen: 0.207 ug/l  
RT: 5.247 min Scan# 560  
Delta R.T. -0.018 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 84 Resp: 455  
Ion Ratio Lower Upper  
84 100  
49 48.1 110.2 165.2#  
51 0.0 34.1 51.1#  
86 0.0 52.6 78.8#

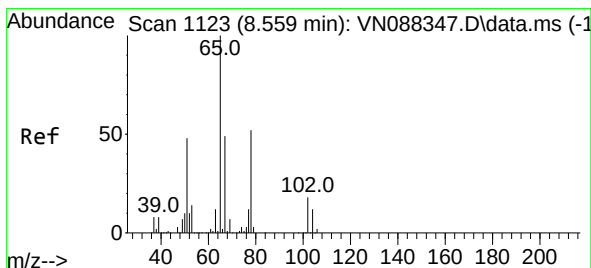
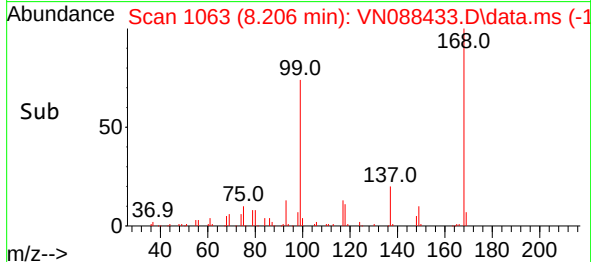
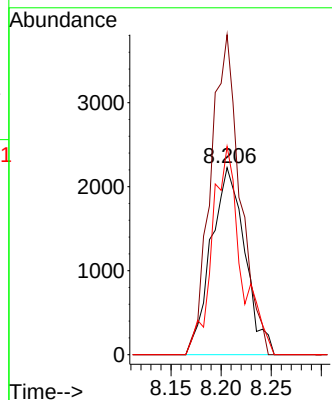
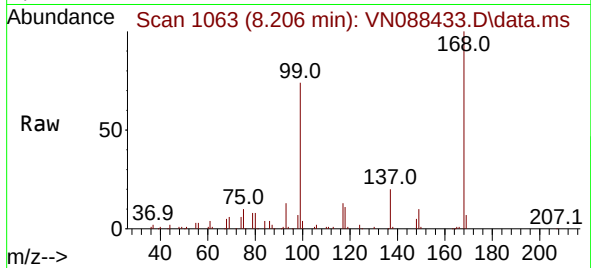




#31  
Cyclohexane  
Concen: 1.395 ug/l  
RT: 8.206 min Scan# 1063  
Delta R.T. -0.029 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

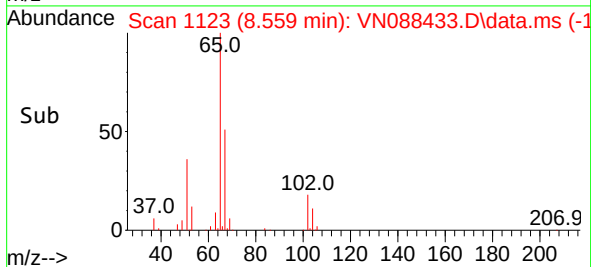
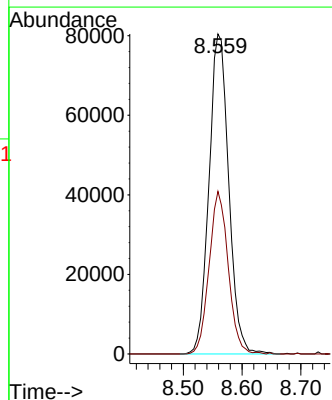
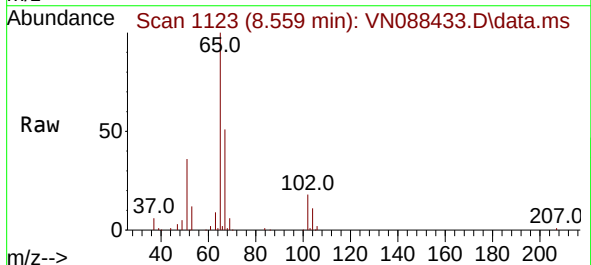
Instrument :  
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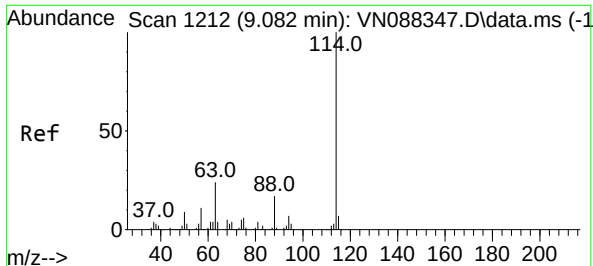
Tgt Ion: 56 Resp: 5207  
Ion Ratio Lower Upper  
56 100  
69 171.0 25.3 37.9#  
84 111.2 65.4 98.2#



#33  
1,2-Dichloroethane-d4  
Concen: 66.133 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 65 Resp: 187716  
Ion Ratio Lower Upper  
65 100  
67 49.1 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088433.D

Acq: 03 Dec 2025 16:37

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

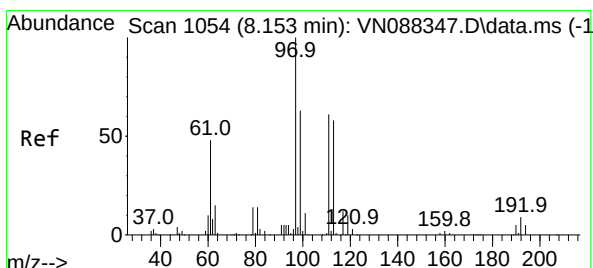
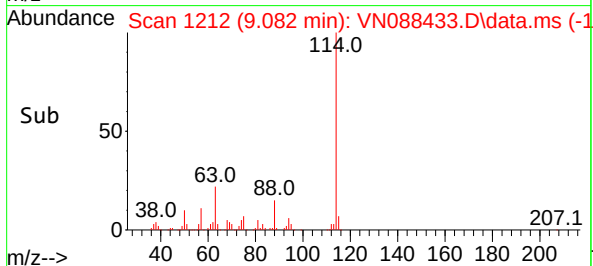
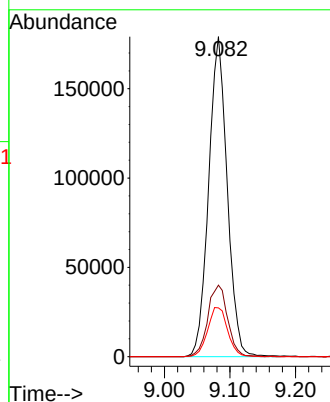
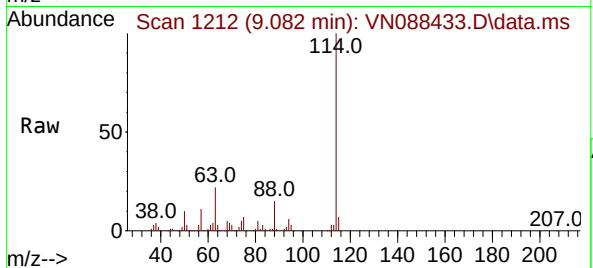
Tgt Ion:114 Resp: 352223

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.0

88 15.3 0.0 34.0



#35

Dibromofluoromethane

Concen: 56.345 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088433.D

Acq: 03 Dec 2025 16:37

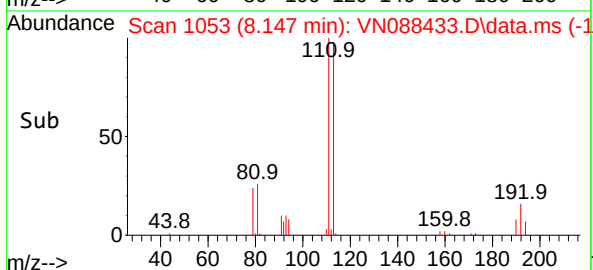
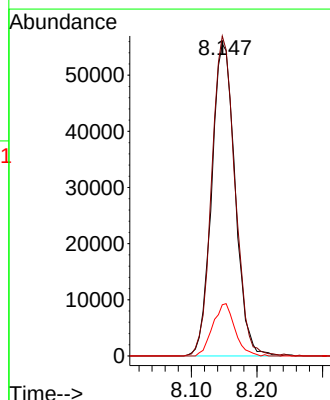
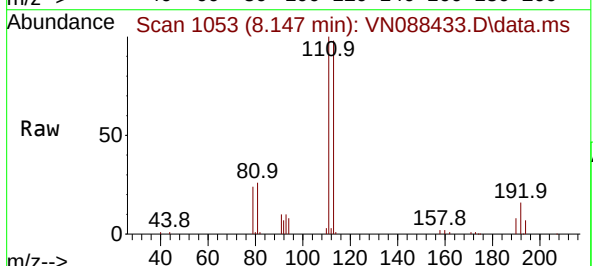
Tgt Ion:113 Resp: 137531

Ion Ratio Lower Upper

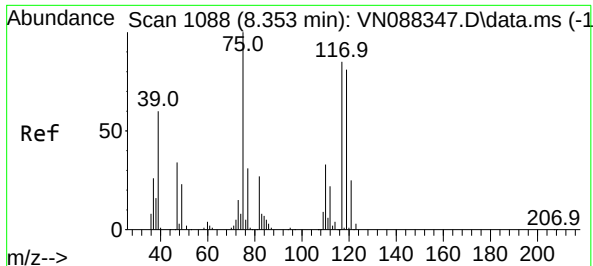
113 100

111 101.8 82.5 123.7

192 15.9 12.8 19.2







#36

1,1-Dichloropropene

Concen: 4.202 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088433.D

Acq: 03 Dec 2025 16:37

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

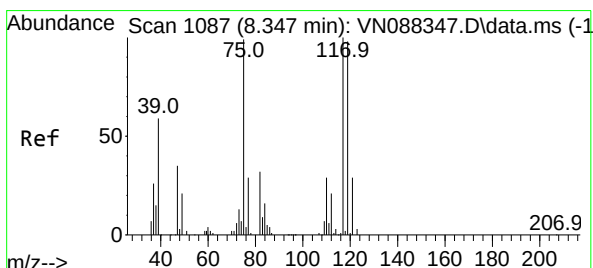
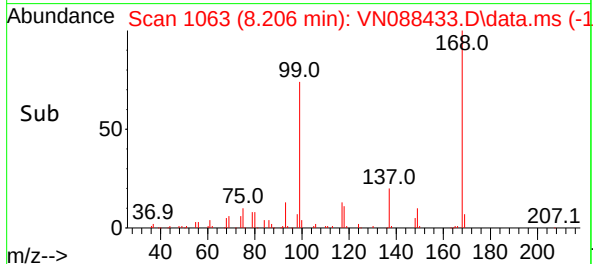
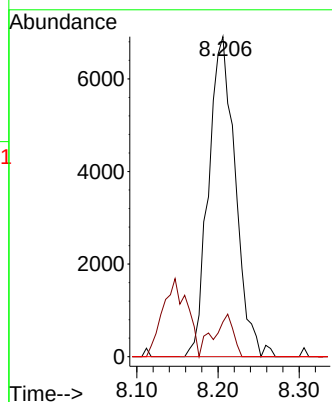
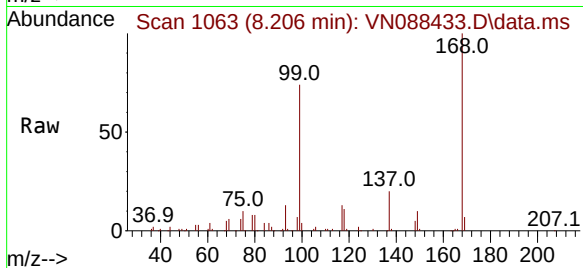
Tgt Ion: 75 Resp: 15831

Ion Ratio Lower Upper

75 100

110 9.8 15.8 47.4#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 4.764 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088433.D

Acq: 03 Dec 2025 16:37

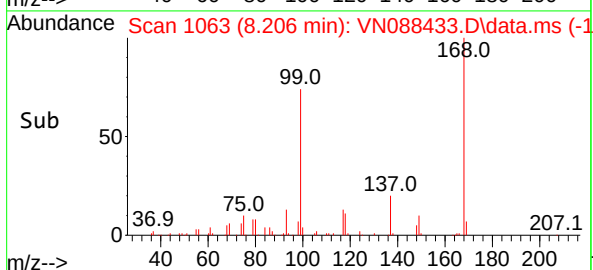
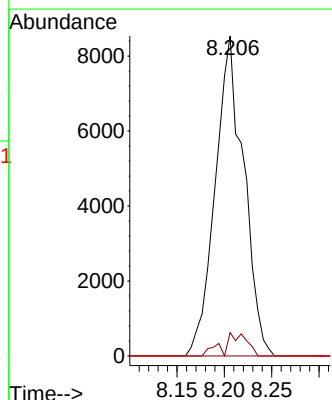
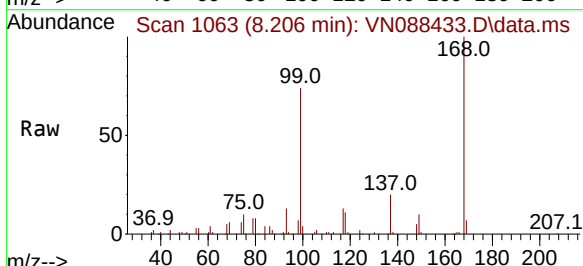
Tgt Ion: 117 Resp: 17864

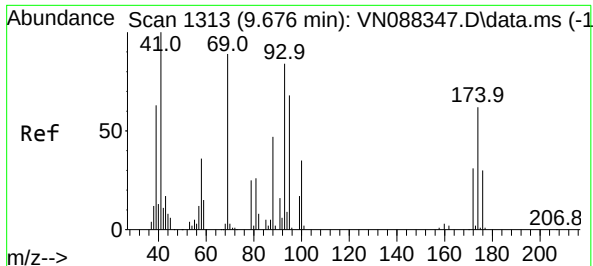
Ion Ratio Lower Upper

117 100

119 7.3 78.2 117.4#

121 0.0 23.4 35.2#

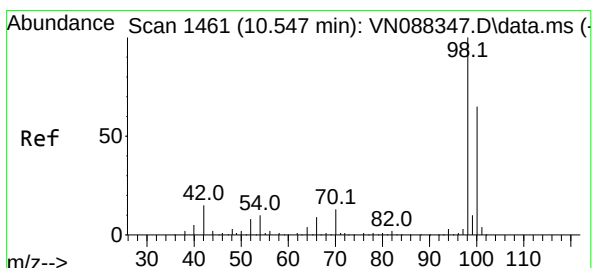
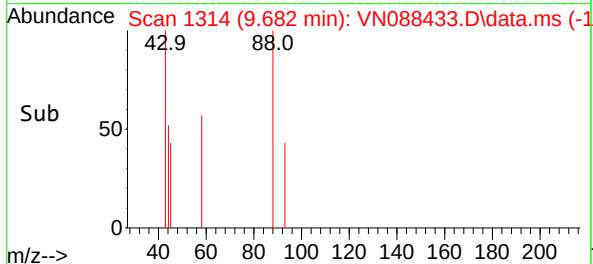
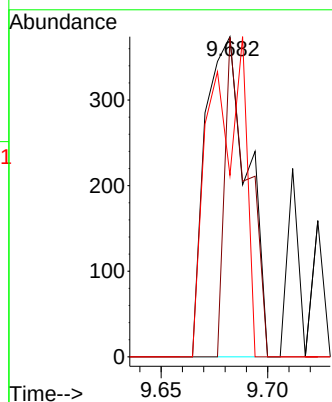
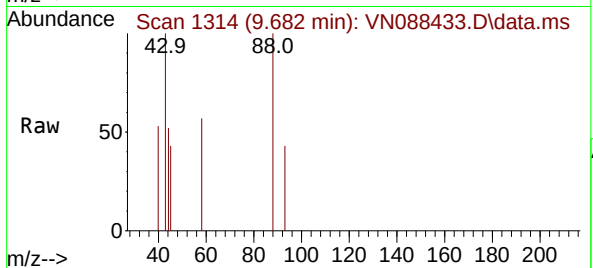




#49  
1,4-Dioxane  
Concen: 11.614 ug/l  
RT: 9.682 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

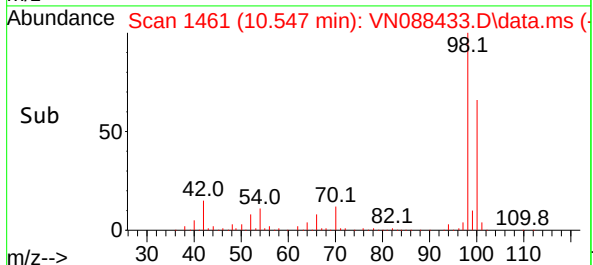
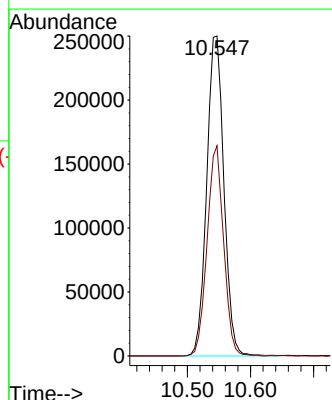
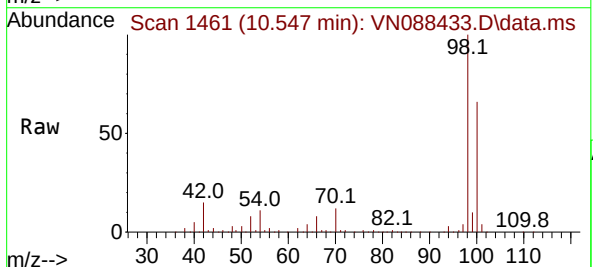
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

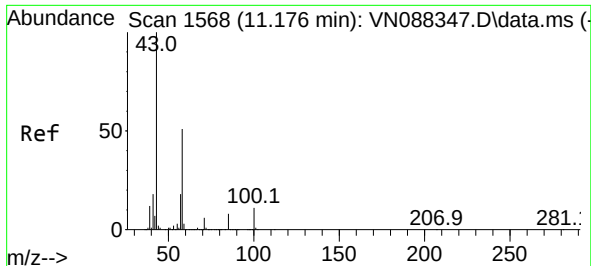
Tgt Ion: 88 Resp: 510  
Ion Ratio Lower Upper  
88 100  
43 54.5 0.0 0.0#  
58 82.4 62.0 93.0



#50  
Toluene-d8  
Concen: 52.035 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 98 Resp: 472583  
Ion Ratio Lower Upper  
98 100  
100 63.2 52.2 78.2

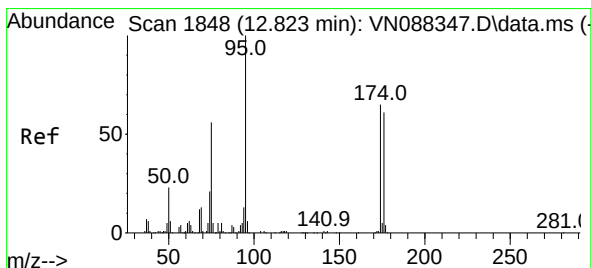
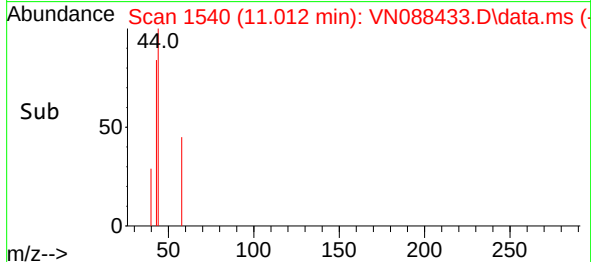
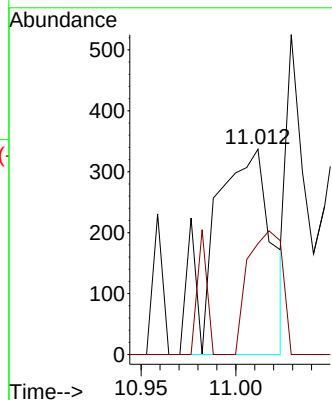
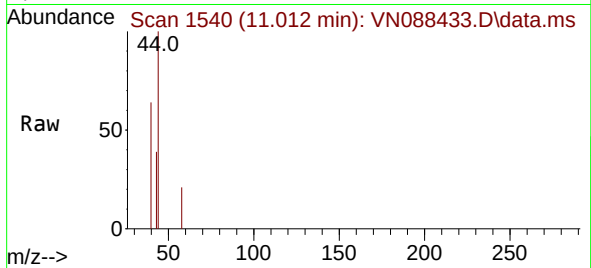




#59  
2-Hexanone  
Concen: 0.258 ug/l  
RT: 11.012 min Scan# 11  
Delta R.T. -0.165 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

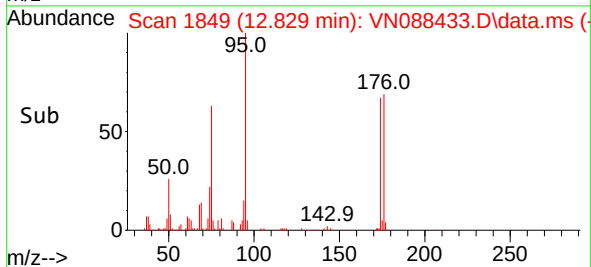
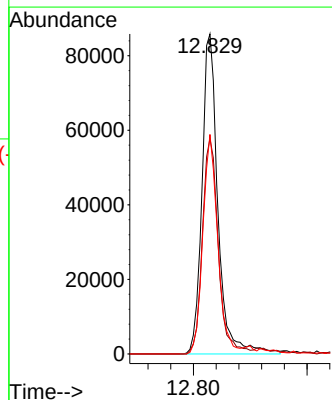
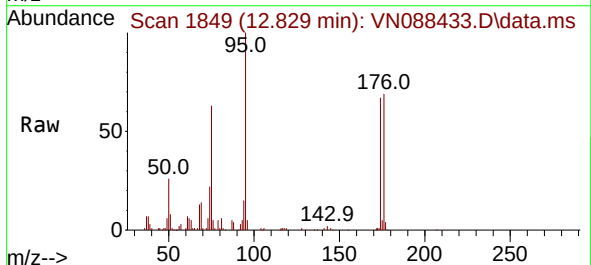
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

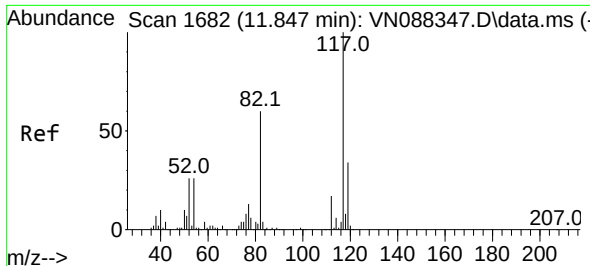
Tgt Ion: 43 Resp: 726  
Ion Ratio Lower Upper  
43 100  
58 35.4 25.3 75.9



#62  
4-Bromofluorobenzene  
Concen: 53.597 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 95 Resp: 167019  
Ion Ratio Lower Upper  
95 100  
174 67.0 0.0 139.0  
176 64.1 0.0 132.4

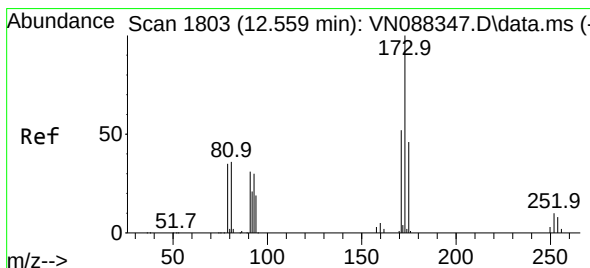
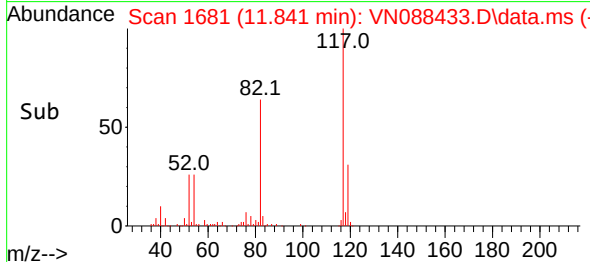
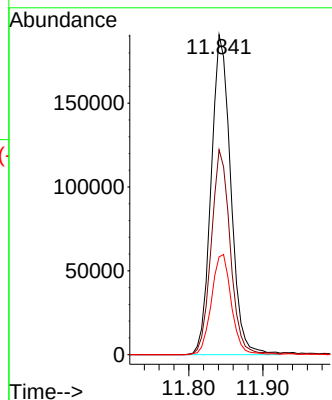
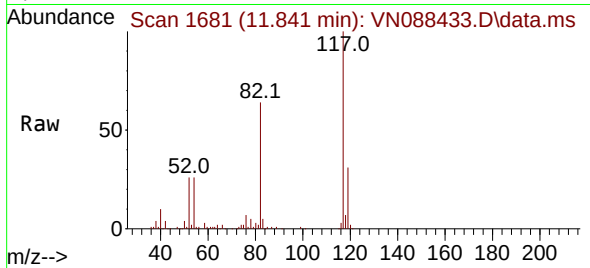




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

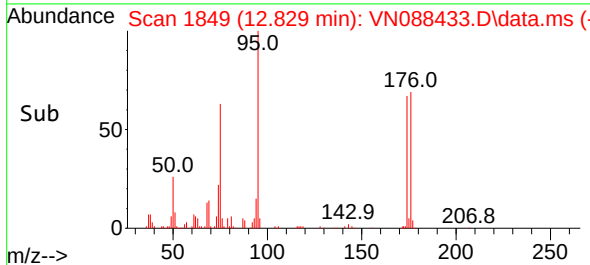
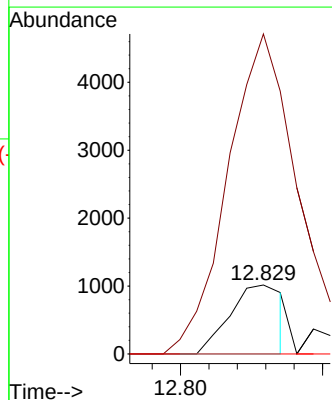
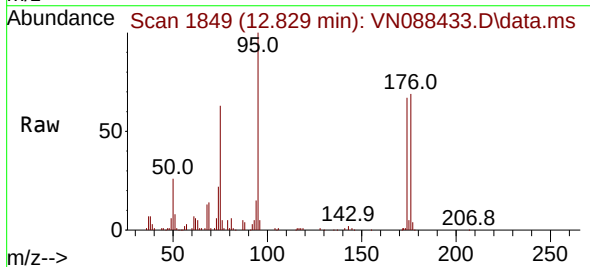
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

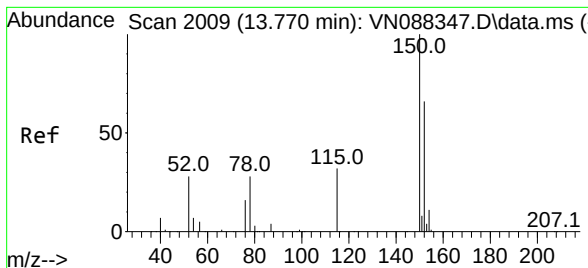
Tgt Ion:117 Resp: 350311  
Ion Ratio Lower Upper  
117 100  
82 64.0 47.8 71.8  
119 30.6 26.9 40.3



#71  
Bromoform  
Concen: 0.678 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.271 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion:173 Resp: 1317  
Ion Ratio Lower Upper  
173 100  
175 474.1 23.9 71.8#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. -0.000 min

Lab File: VN088433.D

Acq: 03 Dec 2025 16:37

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

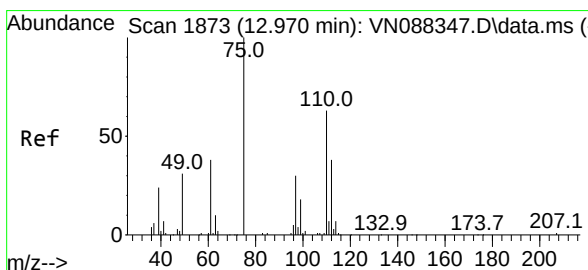
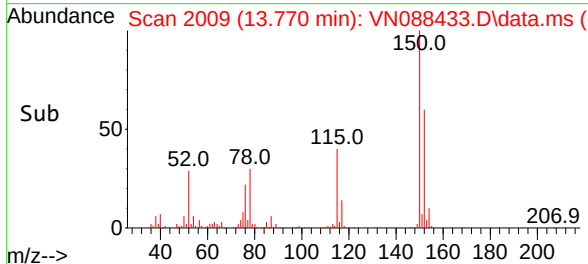
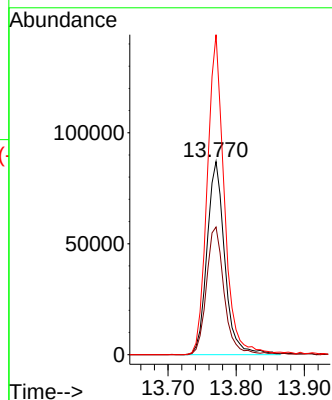
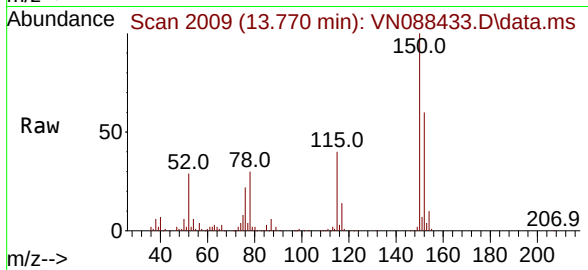
Tgt Ion:152 Resp: 158132

Ion Ratio Lower Upper

152 100

115 66.6 33.0 98.9

150 159.0 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 26.638 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088433.D

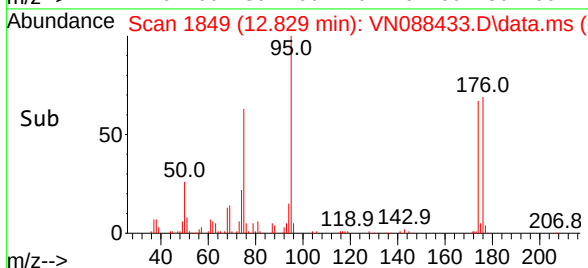
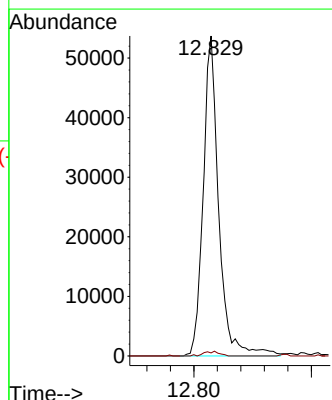
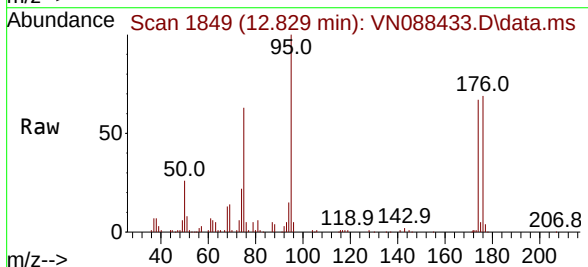
Acq: 03 Dec 2025 16:37

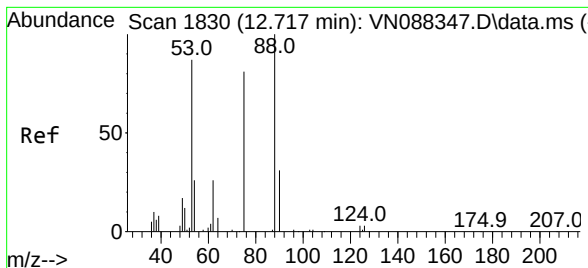
Tgt Ion: 75 Resp: 98660

Ion Ratio Lower Upper

75 100

77 1.4 87.2 261.6#

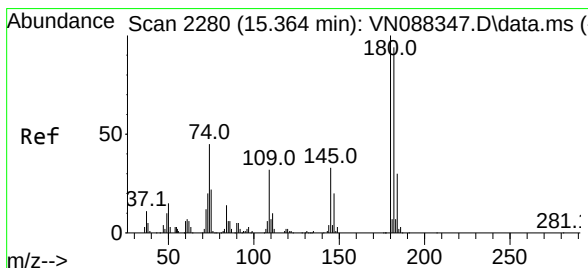
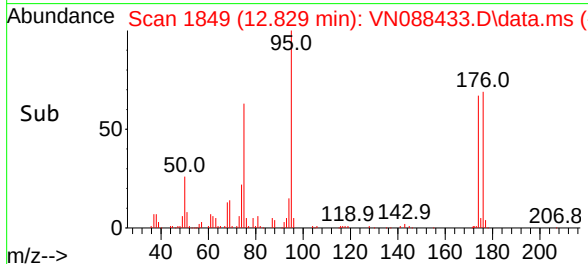
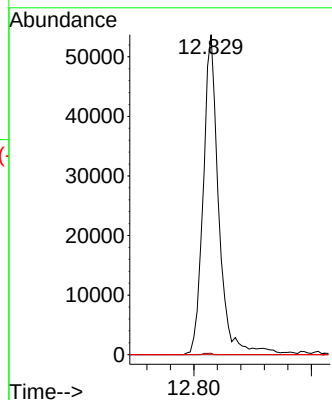
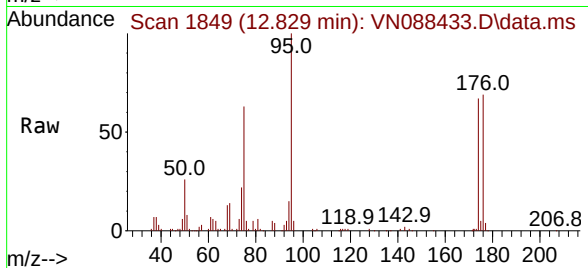




#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.570 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.112 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

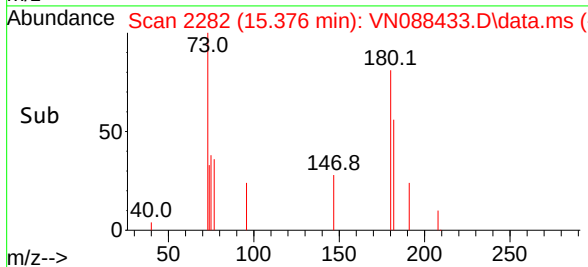
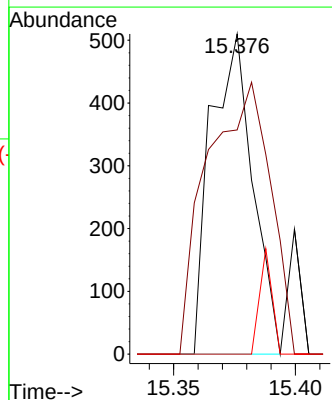
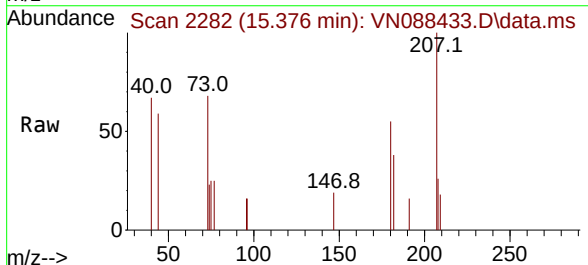
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

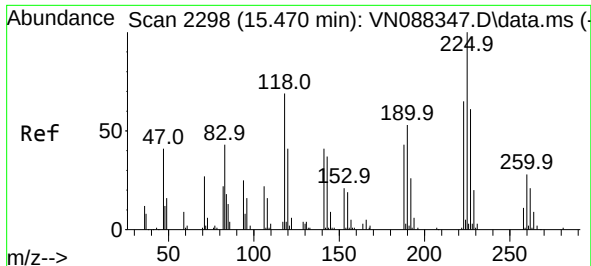
Tgt Ion: 75 Resp: 98660  
Ion Ratio Lower Upper  
75 100  
53 0.2 92.2 138.4#  
89 0.0 0.0 0.0



#93  
1,2,4-Trichlorobenzene  
Concen: 0.209 ug/l  
RT: 15.376 min Scan# 2282  
Delta R.T. 0.012 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Tgt Ion: 180 Resp: 610  
Ion Ratio Lower Upper  
180 100  
182 127.9 46.1 138.2  
145 9.7 16.7 50.1#

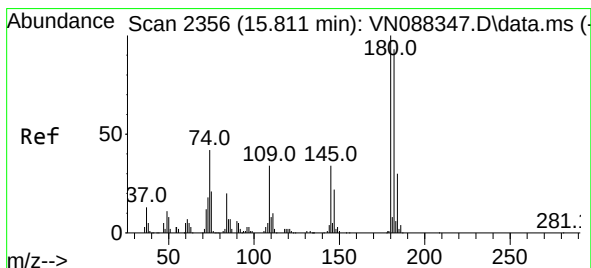
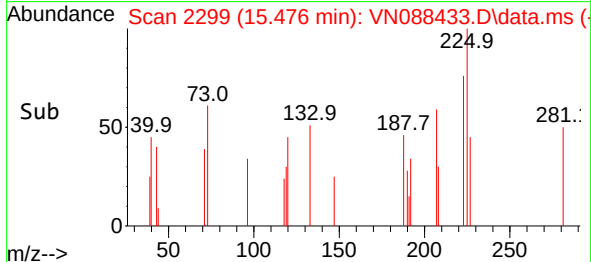
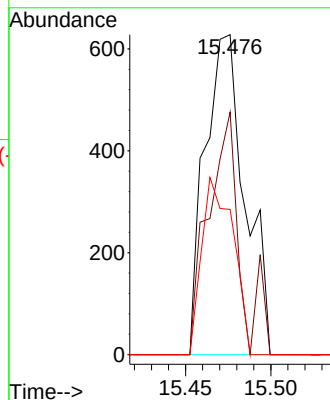
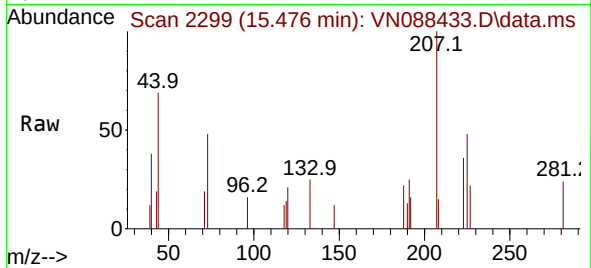




#94  
Hexachlorobutadiene  
Concen: 0.982 ug/l  
RT: 15.476 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 1028      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 52.9  | 32.3 96.8 |
| 227         | 43.3  | 29.9 89.8 |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.331 ug/l  
RT: 15.817 min Scan# 2357  
Delta R.T. 0.006 min  
Lab File: VN088433.D  
Acq: 03 Dec 2025 16:37

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 938         |
| Ion Ratio   | Lower | Upper       |
| 180         | 100   |             |
| 182         | 15.4  | 45.9 137.7# |
| 145         | 9.0   | 17.8 53.4#  |

