

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090722\  
 Data File : VX031169.D  
 Acq On : 07 Sep 2022 19:12  
 Operator : JC/MD  
 Sample : N4357-02DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-20220822DL

Quant Time: Sep 07 23:26:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 07 23:22:41 2022  
 Response via : Initial Calibration

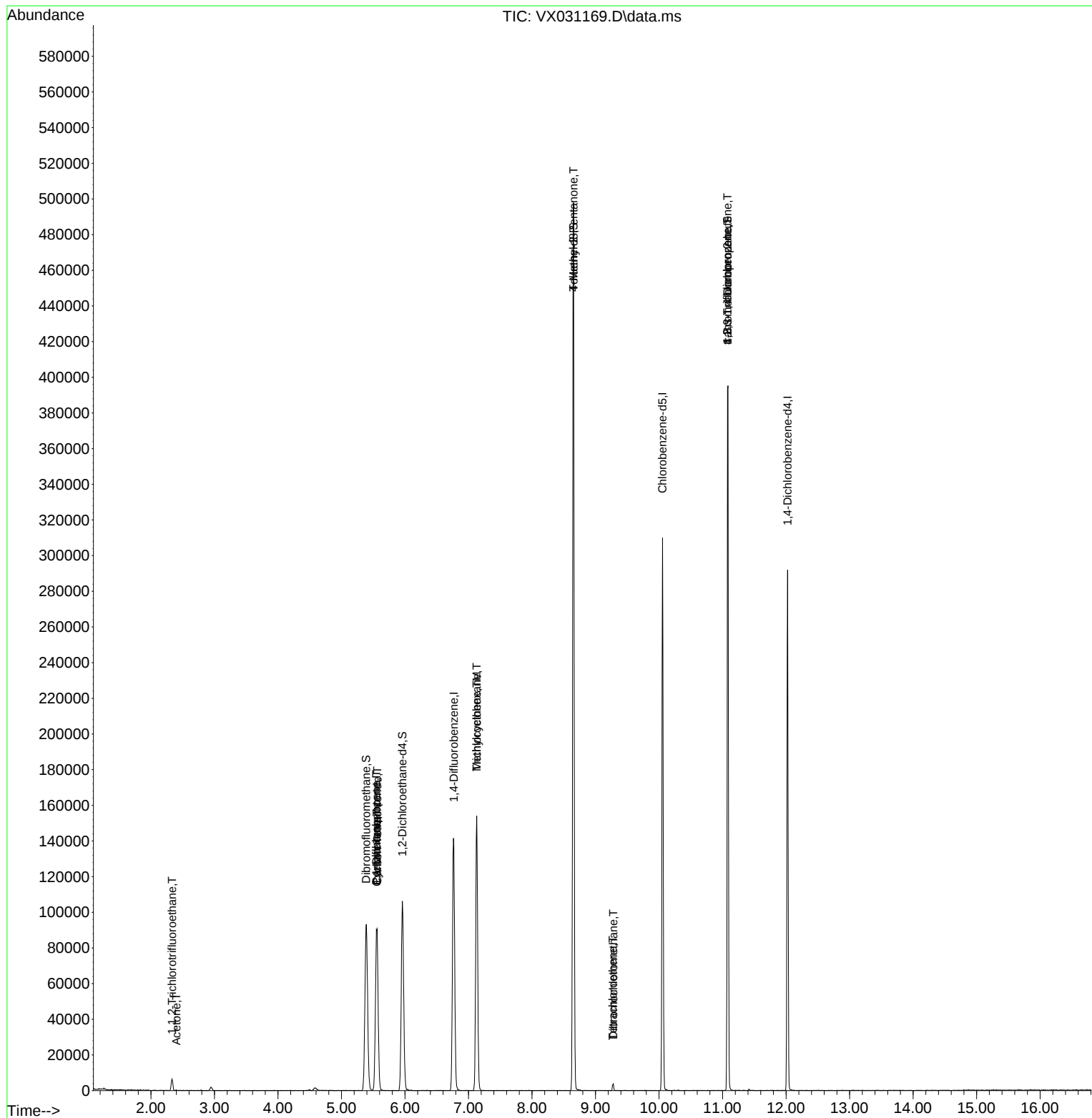
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 82162    | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 146624   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 135125   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 57958    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 110472   | 56.791    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 113.580% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 84397    | 52.821    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 105.640% |          |
| 50) Toluene-d8                | 8.653  | 98    | 294898   | 50.799    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 101.600% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 111239   | 52.288    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 104.580% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 2546     | 1.725     | ug/l       | 94       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 1210     | Below Cal | #          | 74       |
| 16) Acetone                   | 2.398  | 43    | 228      | 0.339     | ug/l       | # 40     |
| 31) Cyclohexane               | 5.556  | 56    | 1741     | 0.801     | ug/l       | # 25     |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 7332     | 3.064     | ug/l       | # 48     |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 9812     | 3.897     | ug/l       | # 17     |
| 39) Methylcyclohexane         | 7.128  | 83    | 712      | 0.261     | ug/l       | # 1      |
| 44) Trichloroethene           | 7.128  | 130   | 58142    | 31.821    | ug/l       | 91       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1027     | 0.501     | ug/l       | # 1      |
| 60) Dibromochloromethane      | 9.281  | 129   | 890      | 0.490     | ug/l       | # 11     |
| 64) Tetrachloroethene         | 9.274  | 164   | 553      | 0.393     | ug/l       | # 62     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 59787    | 37.798    | ug/l       | # 37     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 59787    | 121.893   | ug/l       | # 13     |
| -----                         |        |       |          |           |            |          |

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

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MSVOA\_X  
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RE120D2-20220822DL

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090722W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 07 23:22:41 2022  
Response via : Initial Calibration

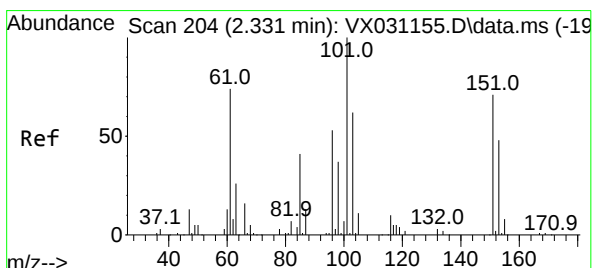
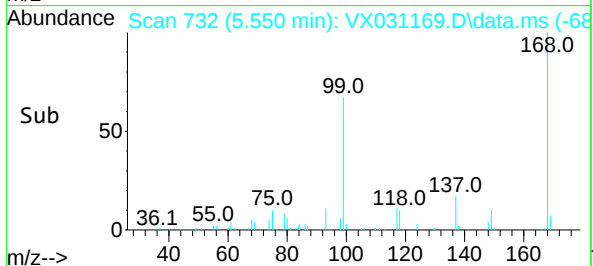
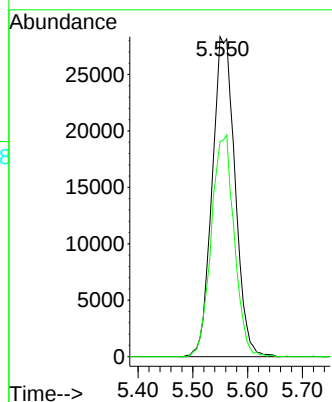
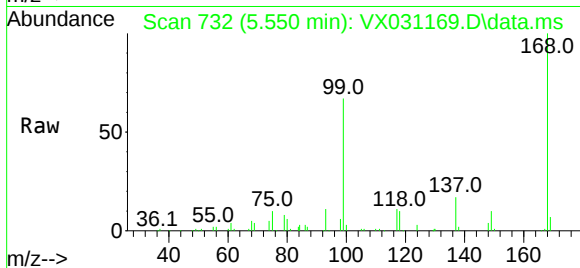




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

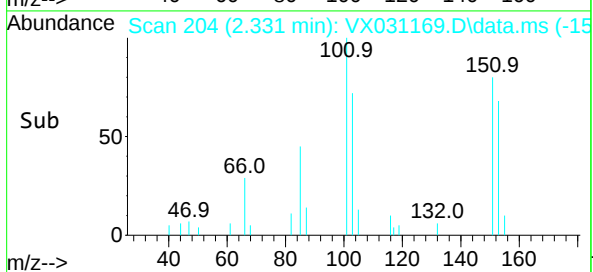
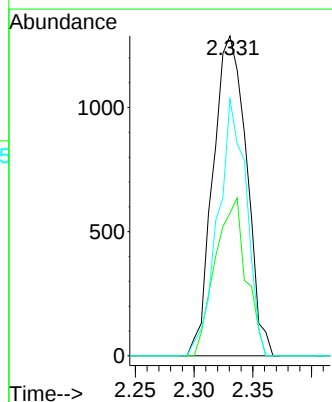
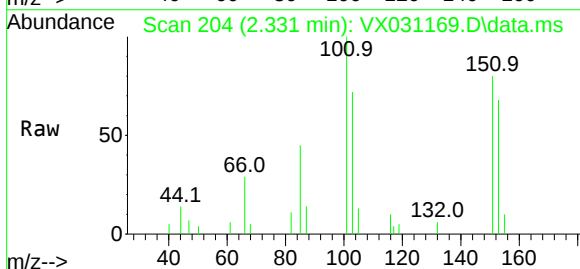
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20220822DL

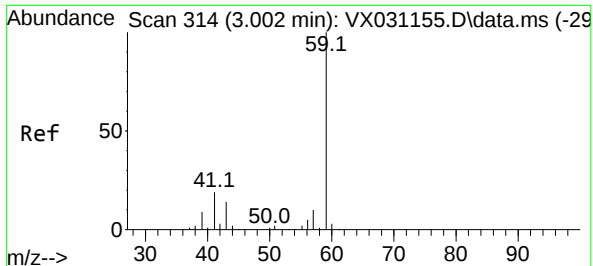
Tgt Ion:168 Resp: 82162  
Ion Ratio Lower Upper  
168 100  
99 67.2 44.0 66.0#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.725 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion:101 Resp: 2546  
Ion Ratio Lower Upper  
101 100  
85 45.5 34.0 51.0  
151 68.3 59.4 89.0





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.940 min Scan# 304

Delta R.T. -0.062 min

Lab File: VX031169.D

Acq: 07 Sep 2022 19:12

Instrument :

MSVOA\_X

ClientSampleId :

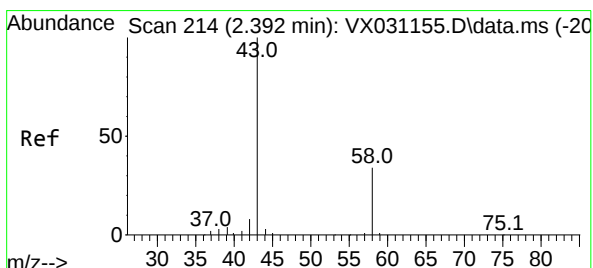
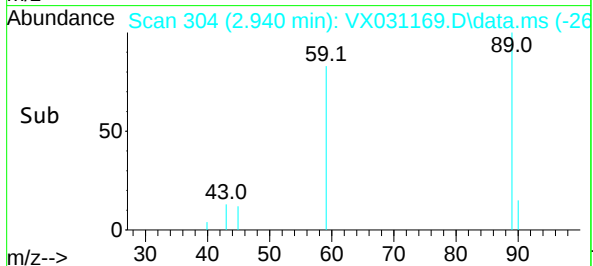
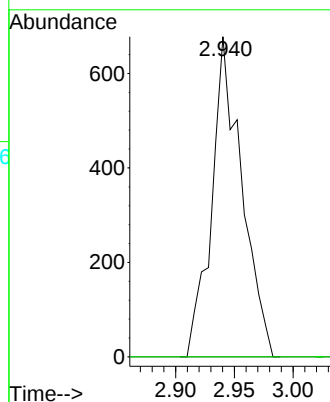
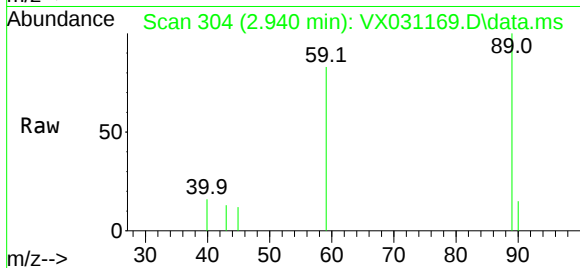
RE120D2-20220822DL

Tgt Ion: 59 Resp: 1210

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



#16

Acetone

Concen: 0.339 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX031169.D

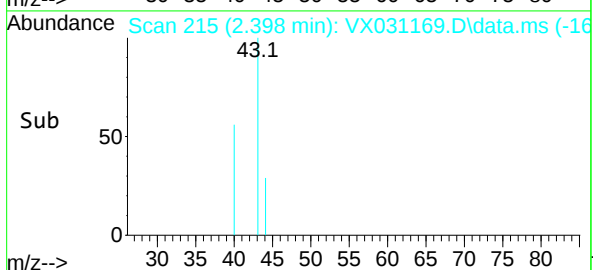
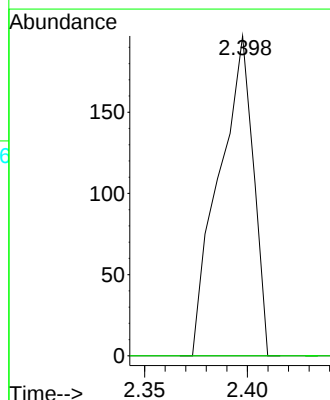
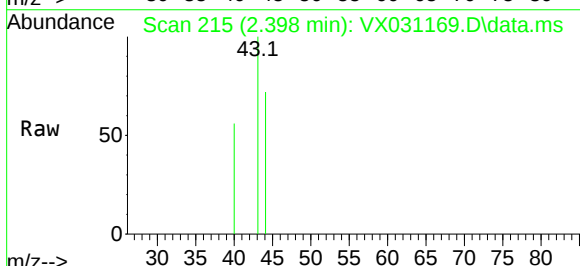
Acq: 07 Sep 2022 19:12

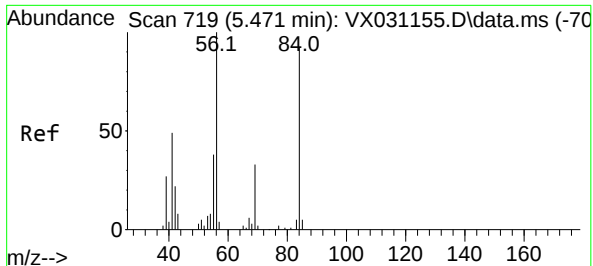
Tgt Ion: 43 Resp: 228

Ion Ratio Lower Upper

43 100

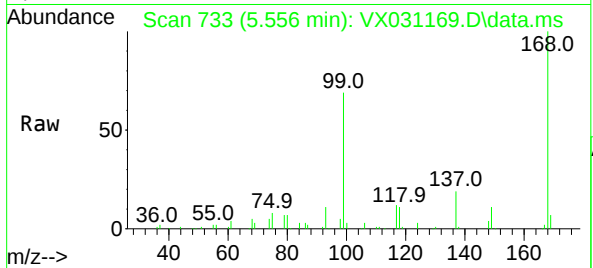
58 0.0 27.7 41.5#





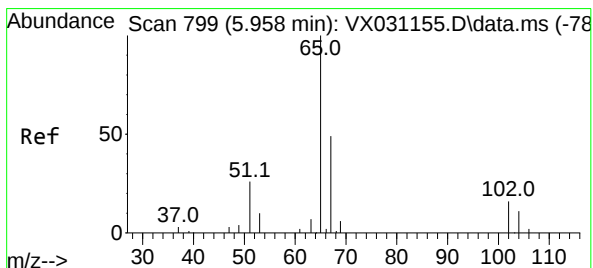
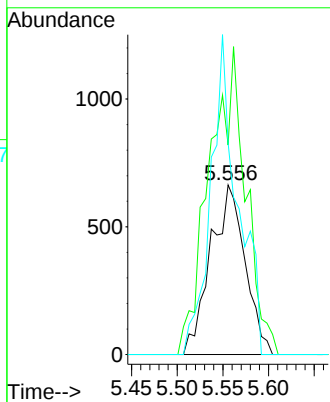
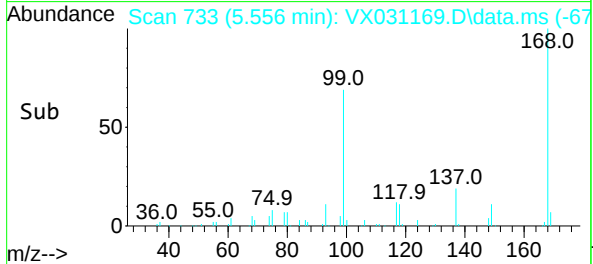
#31  
Cyclohexane  
Concen: 0.801 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20220822DL

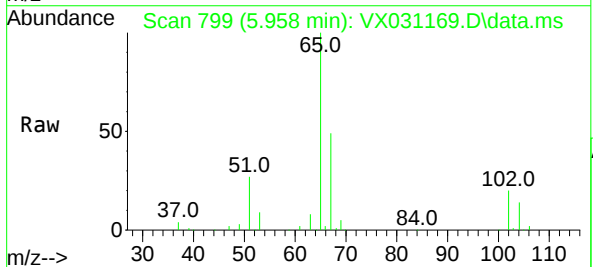


Tgt Ion: 56 Resp: 1741

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 123.5 | 25.4  | 38.0#  |
| 84  | 124.7 | 68.9  | 103.3# |

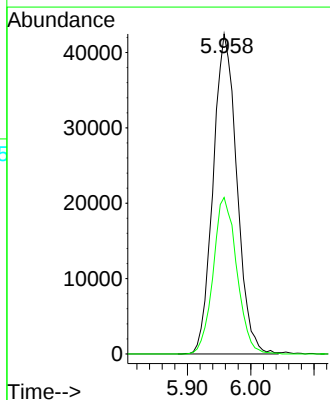
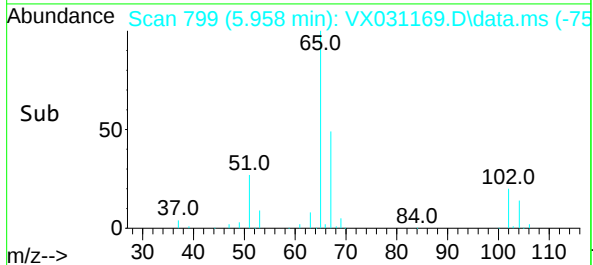


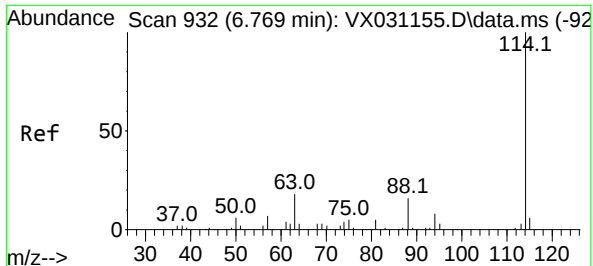
#33  
1,2-Dichloroethane-d4  
Concen: 56.791 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12



Tgt Ion: 65 Resp: 110472

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 48.7  | 0.0   | 109.6 |

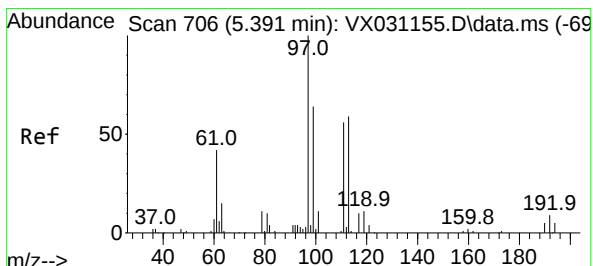
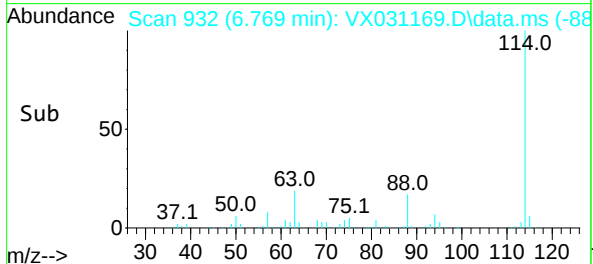
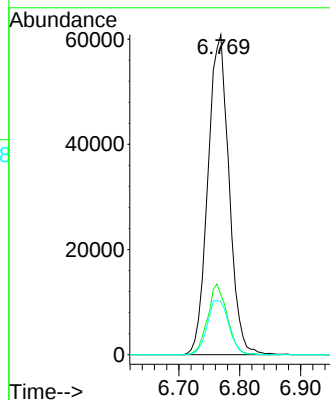
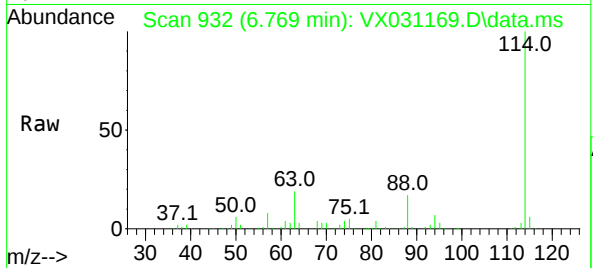




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

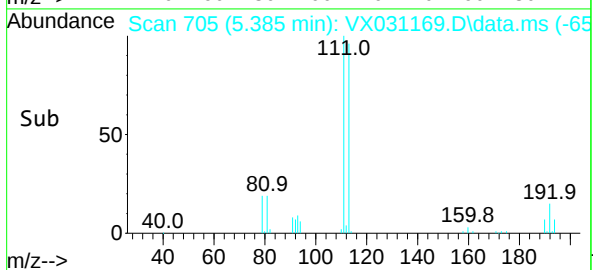
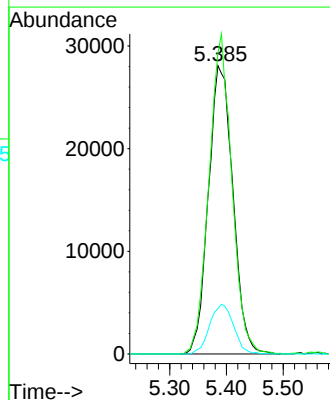
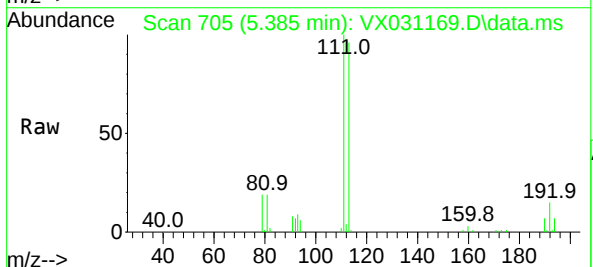
Instrument :  
MSVOA\_X  
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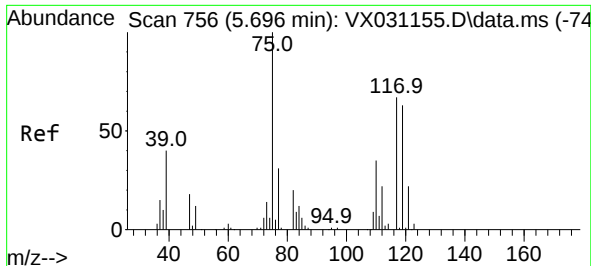
Tgt Ion:114 Resp: 146624  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 38.4  
88 16.7 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 52.821 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion:113 Resp: 84397  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.2 124.8  
192 16.8 14.8 22.2

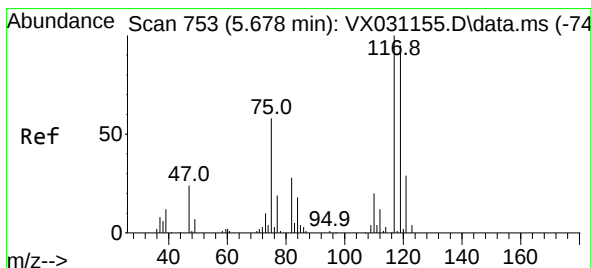
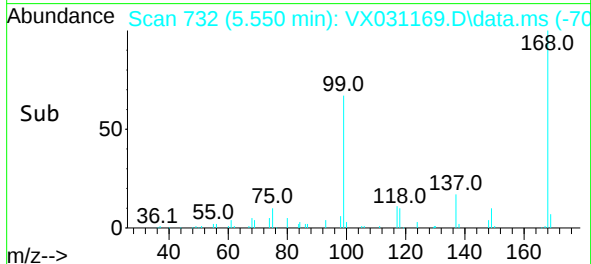
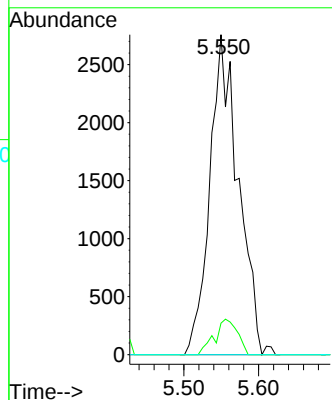
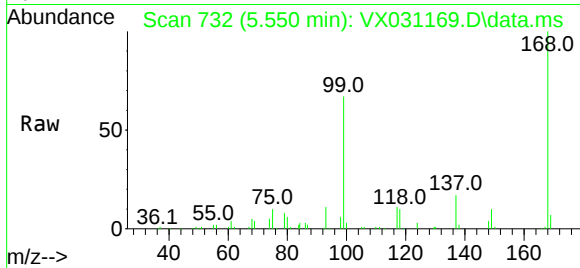




#36  
1,1-Dichloropropene  
Concen: 3.064 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.147 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

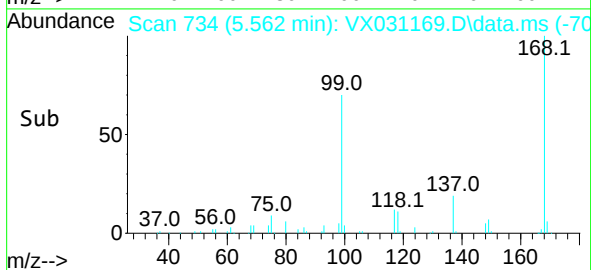
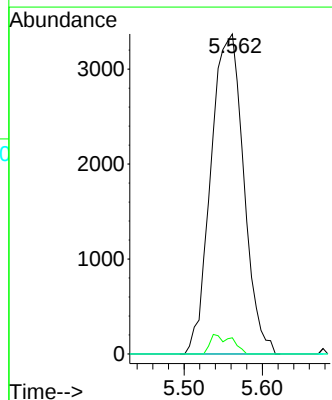
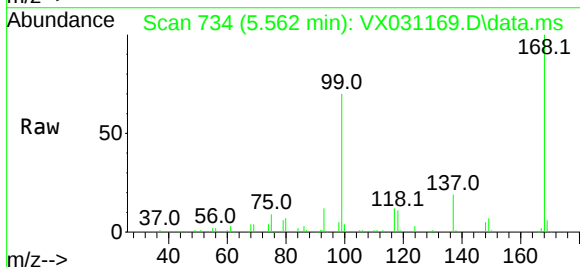
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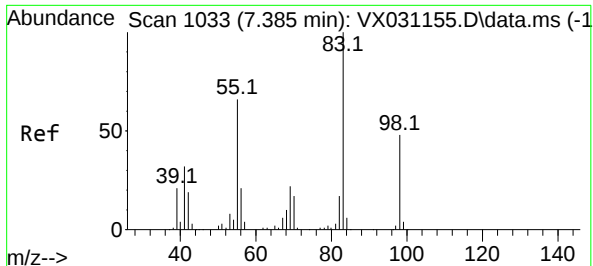
Tgt Ion: 75 Resp: 7332  
Ion Ratio Lower Upper  
75 100  
110 8.9 19.3 57.9#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 3.897 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.116 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion: 117 Resp: 9812  
Ion Ratio Lower Upper  
117 100  
119 5.0 74.1 111.1#  
121 0.0 25.8 38.8#





#39

Methylcyclohexane

Concen: 0.261 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX031169.D

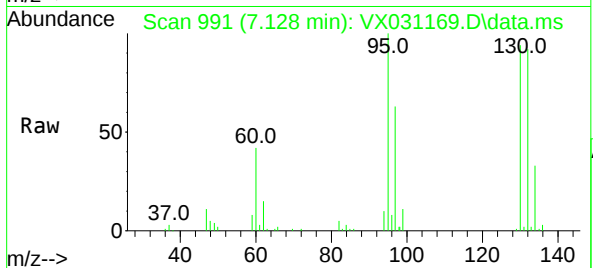
Acq: 07 Sep 2022 19:12

Instrument :

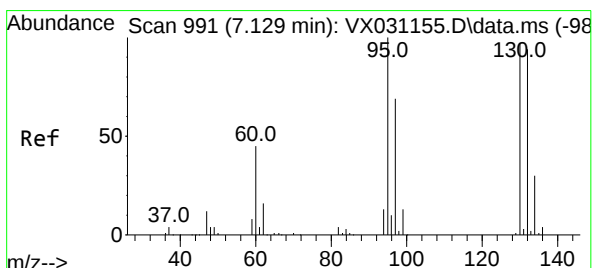
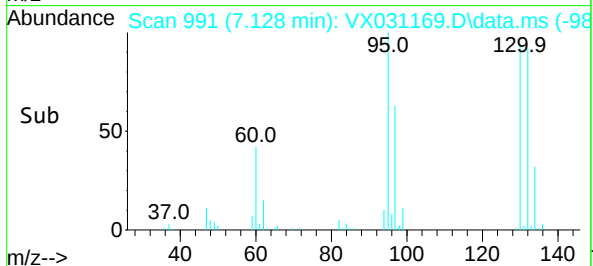
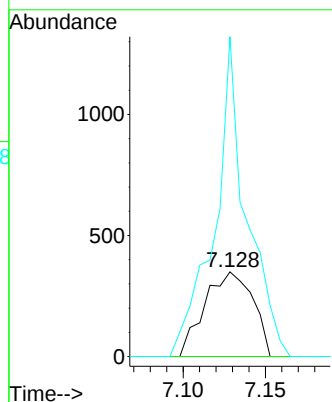
MSVOA\_X

ClientSampleId :

RE120D2-20220822DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 712   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.0   | 57.7  | 86.5# |
| 98       | 358.9 | 36.5  | 54.7# |



#44

Trichloroethene

Concen: 31.821 ug/l

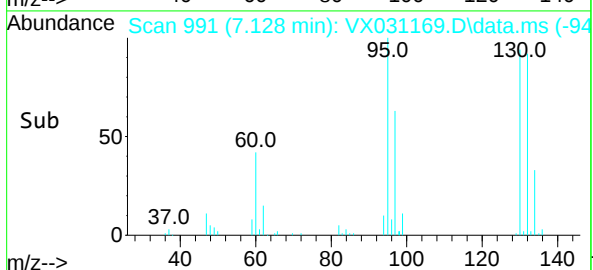
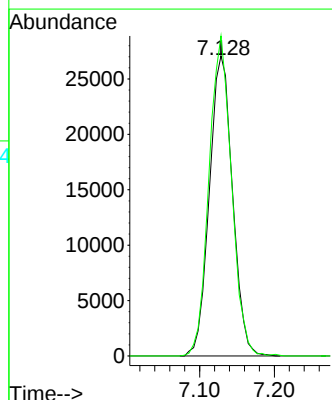
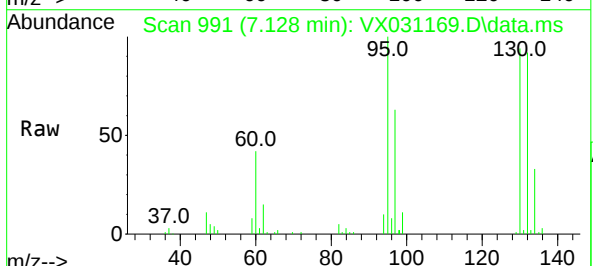
RT: 7.128 min Scan# 991

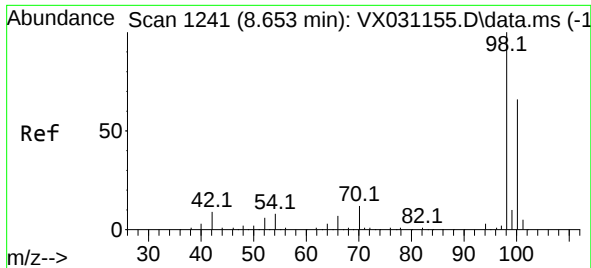
Delta R.T. -0.000 min

Lab File: VX031169.D

Acq: 07 Sep 2022 19:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 58142 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 106.6 | 0.0   | 194.8 |

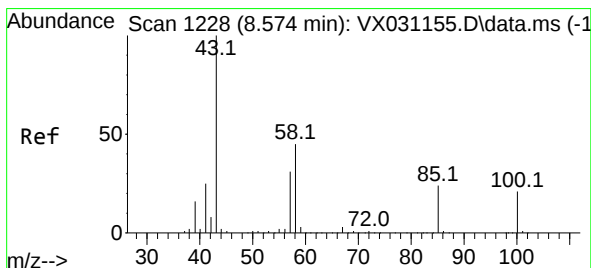
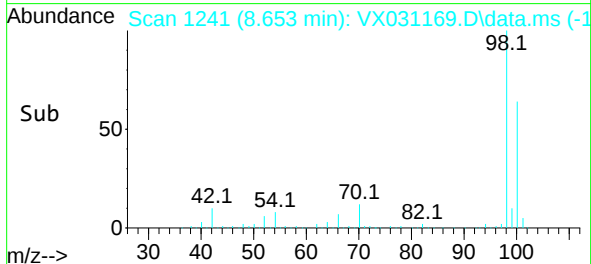
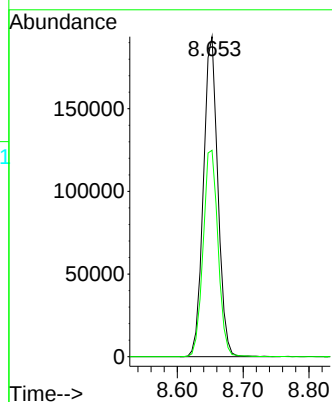
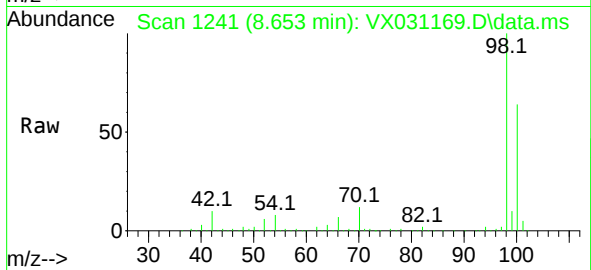




#50  
Toluene-d8  
Concen: 50.799 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

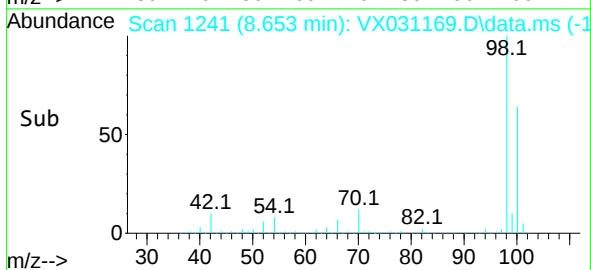
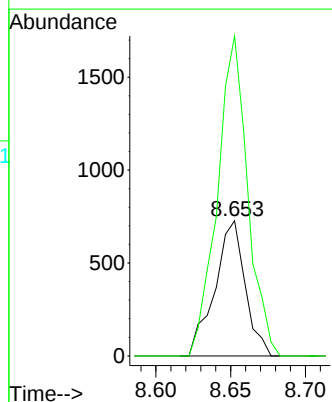
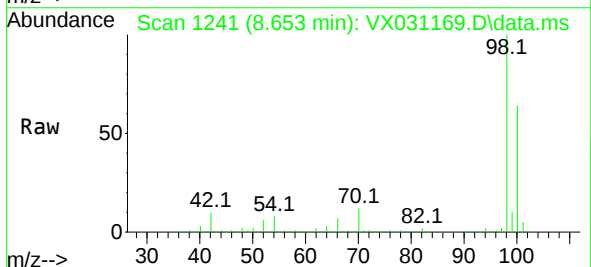
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20220822DL

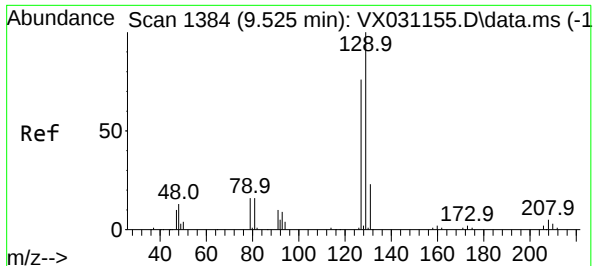
Tgt Ion: 98 Resp: 294898  
Ion Ratio Lower Upper  
98 100  
100 66.7 52.3 78.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.501 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.079 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion: 43 Resp: 1027  
Ion Ratio Lower Upper  
43 100  
58 236.3 31.4 47.2#

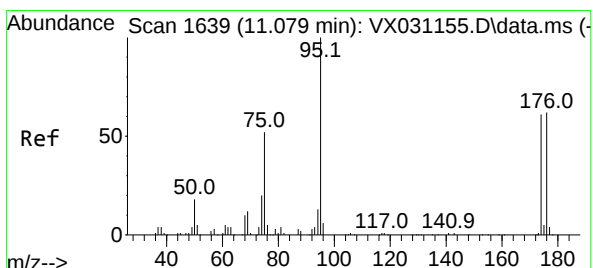
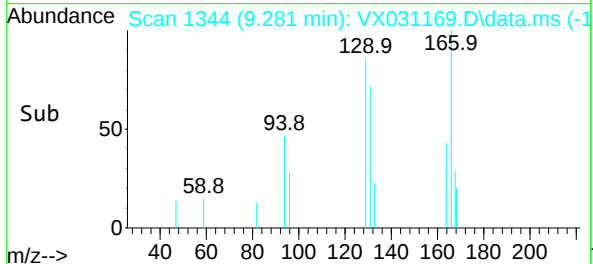
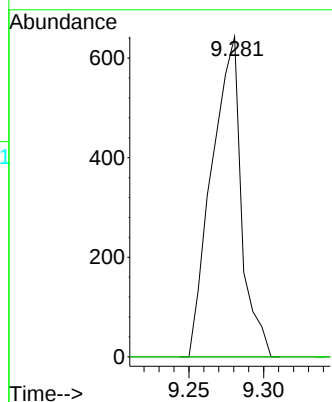
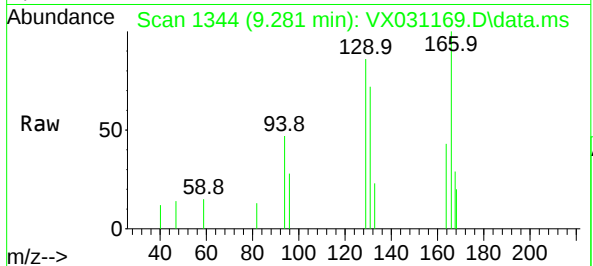




#60  
Dibromochloromethane  
Concen: 0.490 ug/l  
RT: 9.281 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

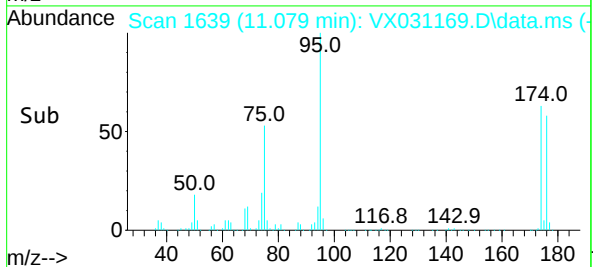
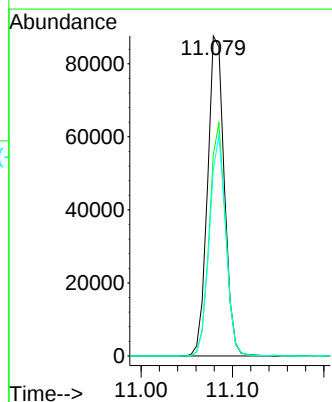
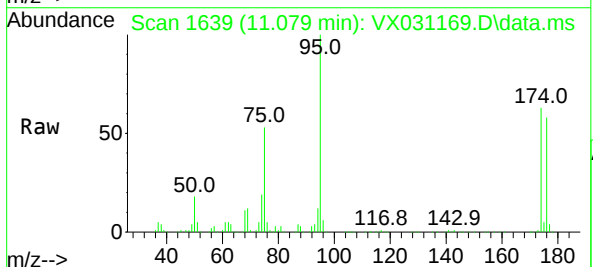
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20220822DL

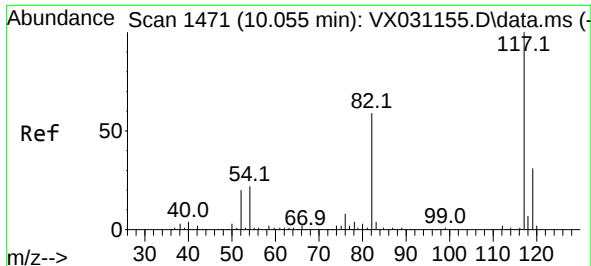
Tgt Ion:129 Resp: 890  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#



#62  
4-Bromofluorobenzene  
Concen: 52.288 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion: 95 Resp: 111239  
Ion Ratio Lower Upper  
95 100  
174 70.4 0.0 149.0  
176 67.5 0.0 146.0

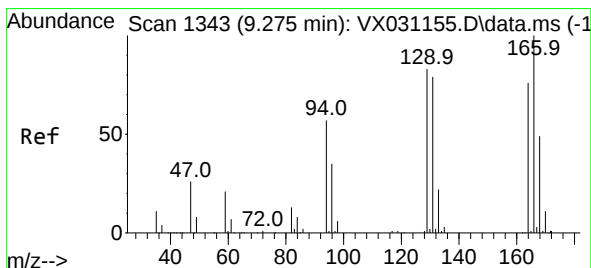
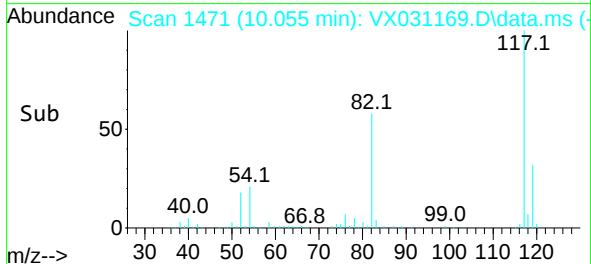
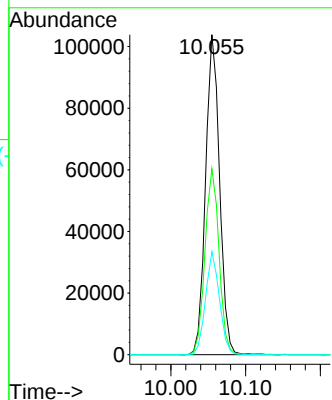
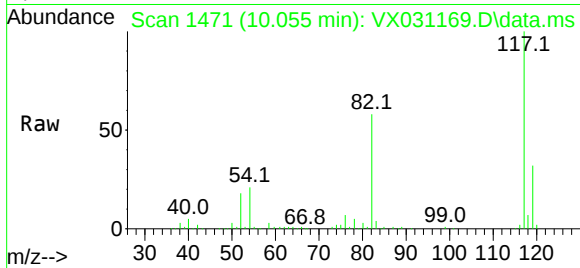




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

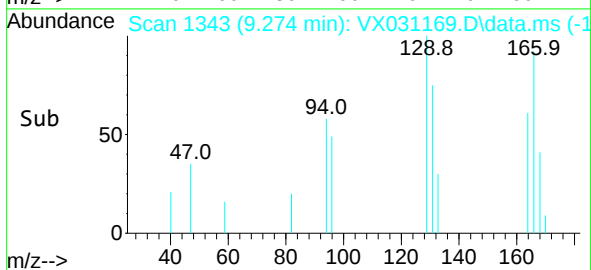
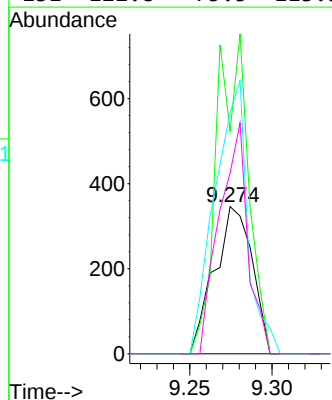
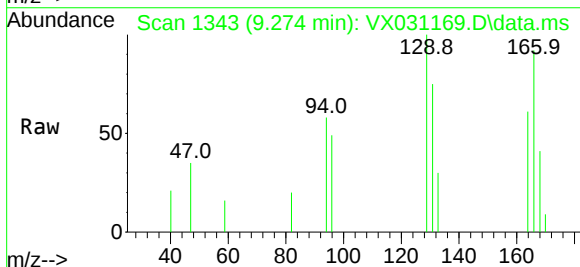
Instrument : MSVOA\_X  
ClientSampleId : RE120D2-20220822DL

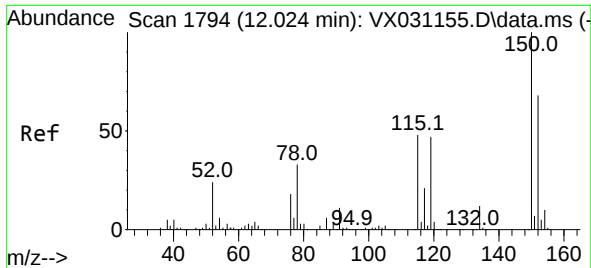
Tgt Ion:117 Resp: 135125  
Ion Ratio Lower Upper  
117 100  
82 58.2 42.7 64.1  
119 32.2 25.4 38.2



#64  
Tetrachloroethene  
Concen: 0.393 ug/l  
RT: 9.274 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX031169.D  
Acq: 07 Sep 2022 19:12

Tgt Ion:164 Resp: 553  
Ion Ratio Lower Upper  
164 100  
166 151.4 98.2 147.4#  
129 163.9 80.8 121.2#  
131 122.8 75.5 113.3#

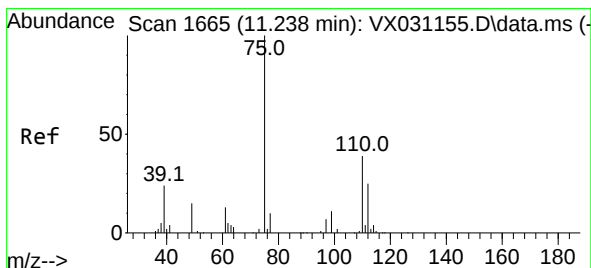
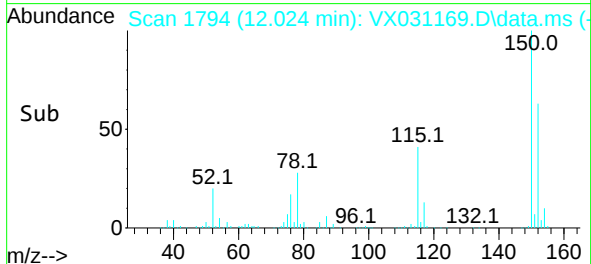
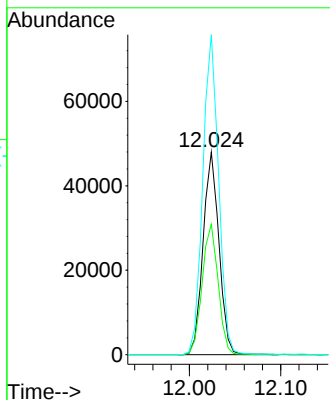
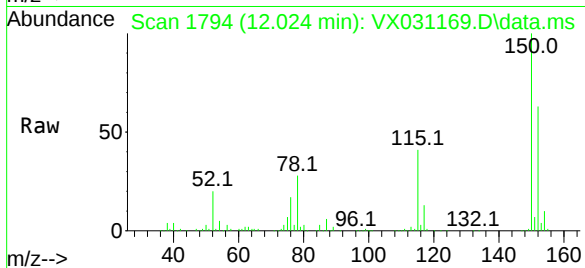




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX031169.D  
 Acq: 07 Sep 2022 19:12

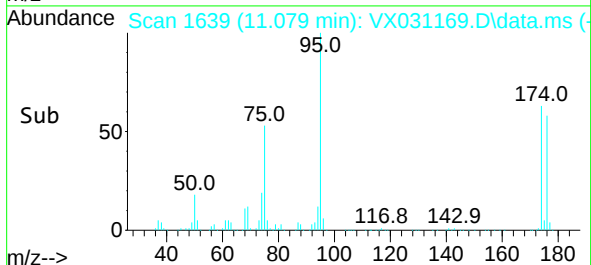
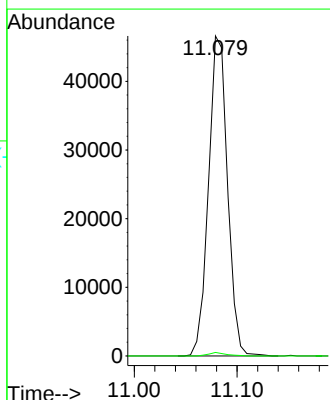
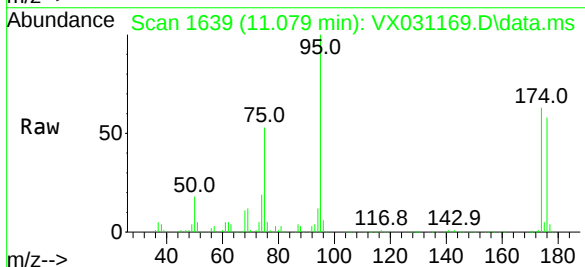
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-20220822DL

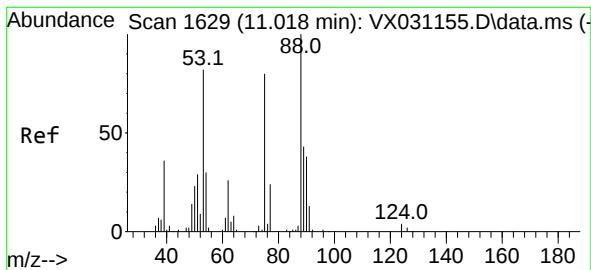
Tgt Ion:152 Resp: 57958  
 Ion Ratio Lower Upper  
 152 100  
 115 64.9 40.5 121.5  
 150 157.6 0.0 347.0



#76  
 1,2,3-Trichloropropane  
 Concen: 37.798 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX031169.D  
 Acq: 07 Sep 2022 19:12

Tgt Ion: 75 Resp: 59787  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 19.8 59.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 121.893 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX031169.D  
 Acq: 07 Sep 2022 19:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-20220822DL

Tgt Ion: 75 Resp: 59787  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.2 111.4#  
 89 0.1 34.8 52.2#

