

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU053023\  
 Data File : VU054311.D  
 Acq On : 30 May 2023 14:10  
 Operator : JC/MD  
 Sample : 02912-07  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

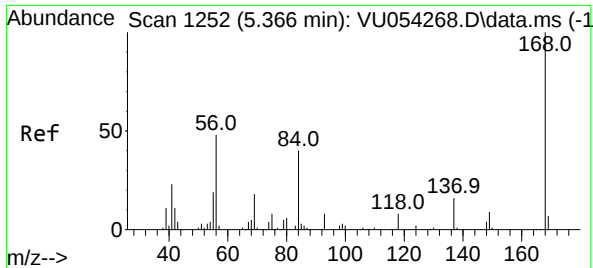
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE134D4-20230523

Quant Time: May 31 06:26:09 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 26 06:40:51 2023  
 Response via : Initial Calibration

| Compound                     | R.T. QIon |       | Response | Conc     | Units      | Dev(Min)     |
|------------------------------|-----------|-------|----------|----------|------------|--------------|
| -----                        |           |       |          |          |            |              |
| Internal Standards           |           |       |          |          |            |              |
| 1) Pentafluorobenzene        | 5.369     | 168   | 258554   | 50.000   | ug/l       | 0.00         |
| 34) 1,4-Difluorobenzene      | 6.244     | 114   | 424724   | 50.000   | ug/l       | 0.00         |
| 63) Chlorobenzene-d5         | 9.411     | 117   | 404148   | 50.000   | ug/l       | 0.00         |
| 72) 1,4-Dichlorobenzene-d4   | 11.806    | 152   | 190156   | 50.000   | ug/l       | 0.00         |
| System Monitoring Compounds  |           |       |          |          |            |              |
| 33) 1,2-Dichloroethane-d4    | 5.694     | 65    | 177794   | 52.456   | ug/l       | 0.00         |
| Spiked Amount                | 50.000    | Range | 78 - 117 | Recovery | = 104.920% |              |
| 35) Dibromofluoromethane     | 5.285     | 113   | 142407   | 52.066   | ug/l       | 0.00         |
| Spiked Amount                | 50.000    | Range | 75 - 124 | Recovery | = 104.140% |              |
| 50) Toluene-d8               | 7.893     | 98    | 526912   | 50.647   | ug/l       | 0.00         |
| Spiked Amount                | 50.000    | Range | 92 - 112 | Recovery | = 101.300% |              |
| 62) 4-Bromofluorobenzene     | 10.629    | 95    | 180542   | 44.756   | ug/l       | 0.00         |
| Spiked Amount                | 50.000    | Range | 83 - 123 | Recovery | = 89.520%  |              |
| Target Compounds             |           |       |          |          |            |              |
| 2) Dichlorodifluoromethane   | 1.382     | 85    | 592      | 0.205    | ug/l       | Qvalue<br>94 |
| 3) Chloromethane             | 1.517     | 50    | 1677     | 0.444    | ug/l       | 95           |
| 9) 1,1,2-Trichlorotrifluo... | 2.575     | 101   | 747028   | 278.120  | ug/l       | 96           |
| 12) 1,1-Dichloroethene       | 2.575     | 96    | 5027     | 1.808    | ug/l #     | 83           |
| 16) Acetone                  | 2.633     | 43    | 1004     | 0.517    | ug/l       | 94           |
| 20) Methylene Chloride       | 3.041     | 84    | 1007     | 0.287    | ug/l #     | 88           |
| 27) cis-1,2-Dichloroethene   | 4.668     | 96    | 3685     | 1.113    | ug/l       | 94           |
| 44) Trichloroethene          | 6.536     | 130   | 113793   | 33.220   | ug/l       | 93           |
| 45) 1,2-Dichloropropane      | 6.784     | 63    | 1508     | 0.472    | ug/l       | 92           |
| 64) Tetrachloroethene        | 8.546     | 164   | 66590    | 21.892   | ug/l       | 98           |
| -----                        |           |       |          |          |            |              |

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

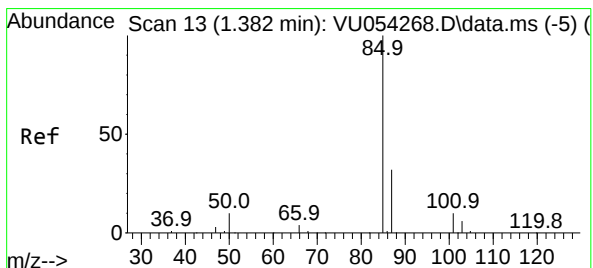
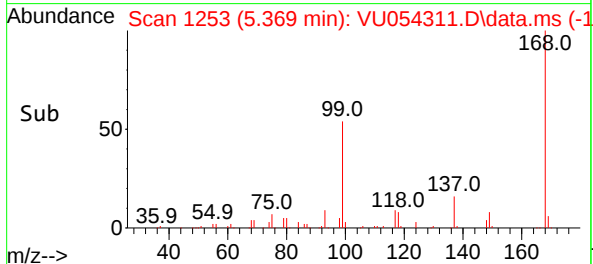
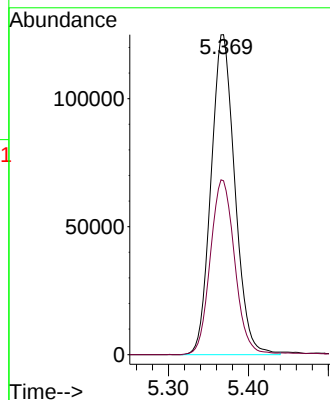
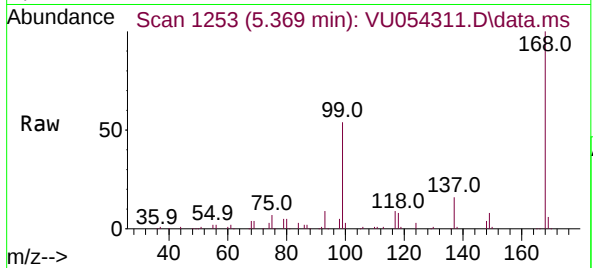




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

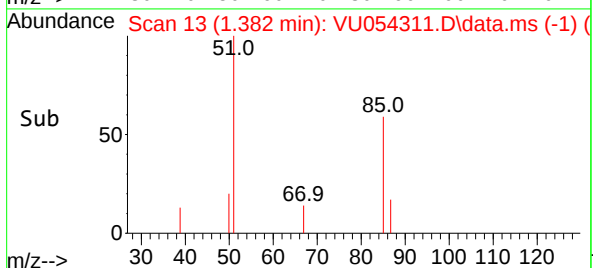
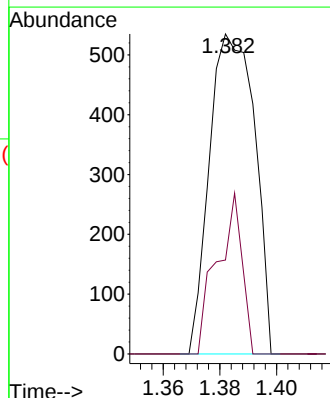
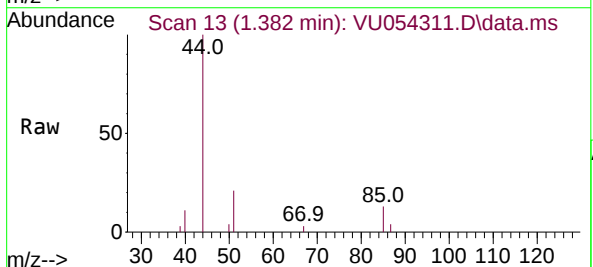
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MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

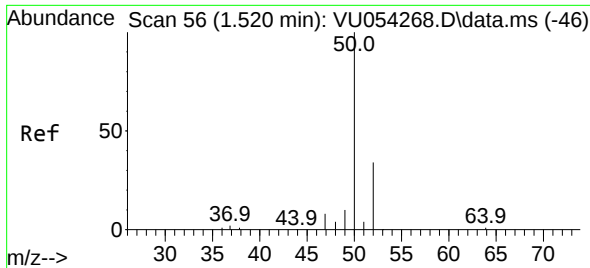
Tgt Ion:168 Resp: 258554  
Ion Ratio Lower Upper  
168 100  
99 54.3 39.3 58.9



#2  
Dichlorodifluoromethane  
Concen: 0.205 ug/l  
RT: 1.382 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Tgt Ion: 85 Resp: 592  
Ion Ratio Lower Upper  
85 100  
87 29.3 16.4 49.2

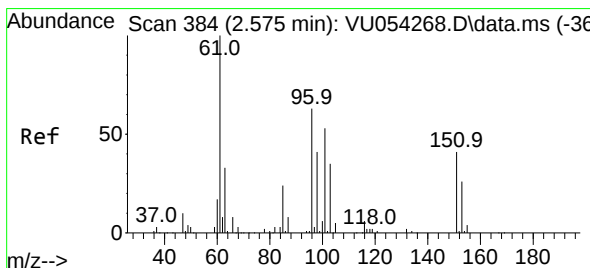
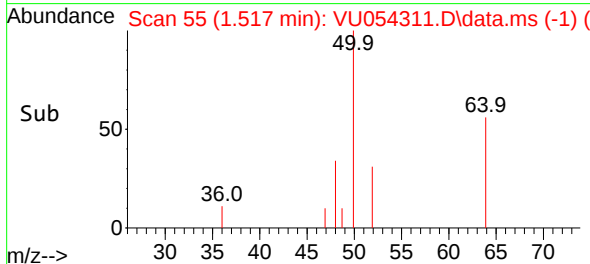
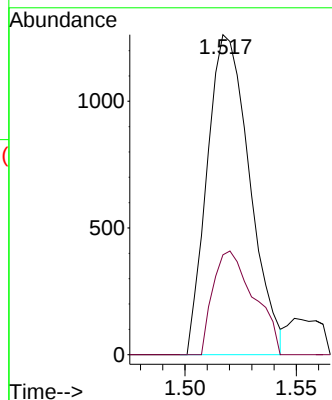
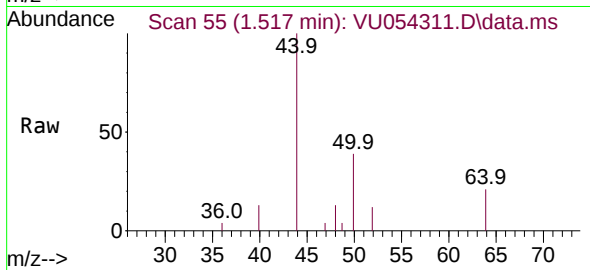




#3  
Chloromethane  
Concen: 0.444 ug/l  
RT: 1.517 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

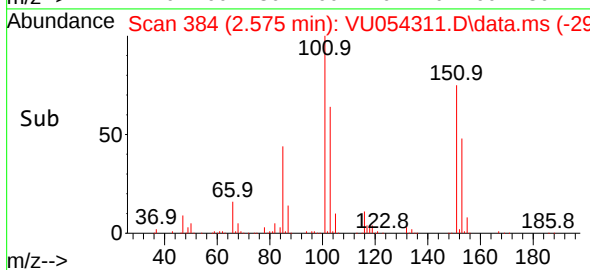
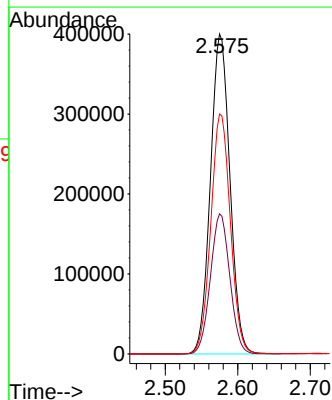
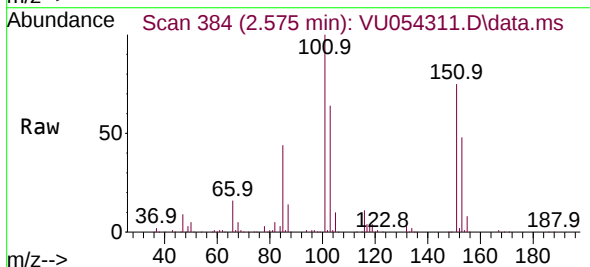
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

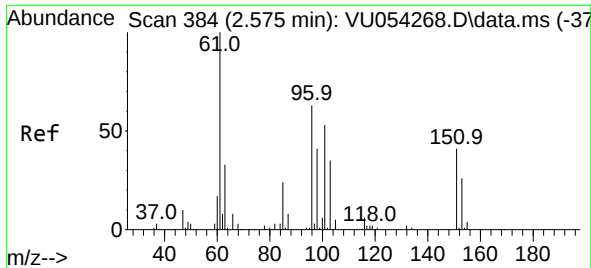
Tgt Ion: 50 Resp: 1677  
Ion Ratio Lower Upper  
50 100  
52 31.2 27.4 41.2



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 278.120 ug/l  
RT: 2.575 min Scan# 384  
Delta R.T. -0.000 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Tgt Ion: 101 Resp: 747028  
Ion Ratio Lower Upper  
101 100  
85 43.7 33.9 50.9  
151 75.5 64.0 96.0

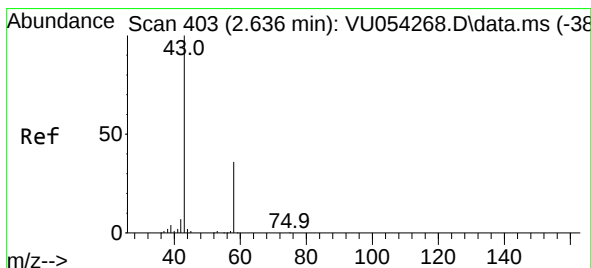
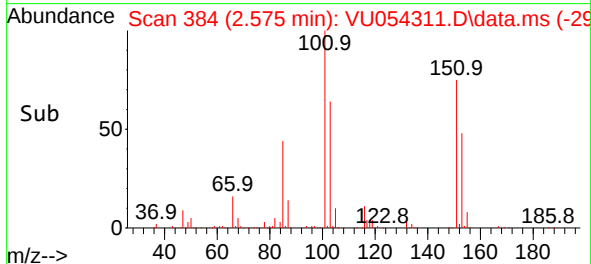
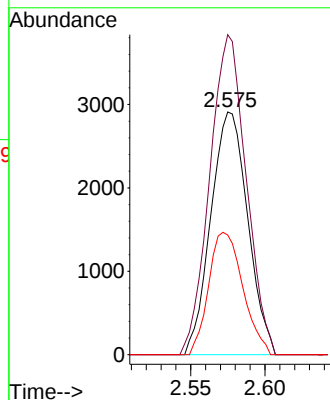
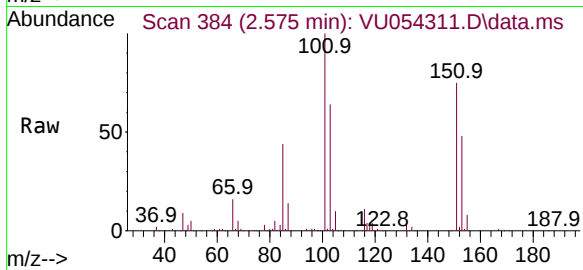




#12  
1,1-Dichloroethene  
Concen: 1.808 ug/l  
RT: 2.575 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

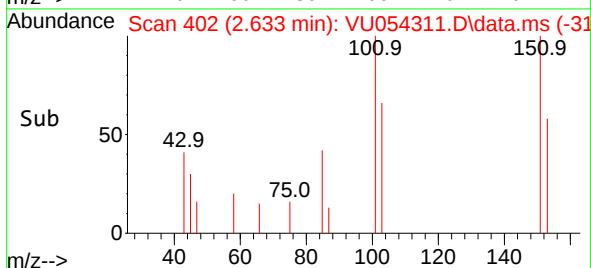
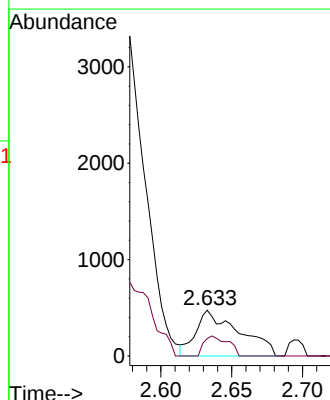
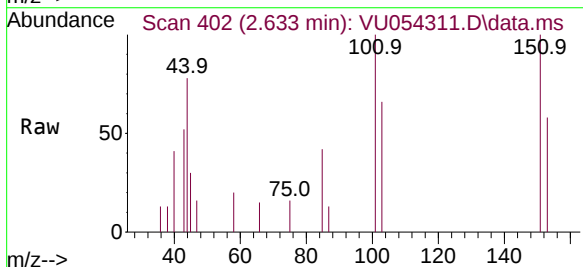
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

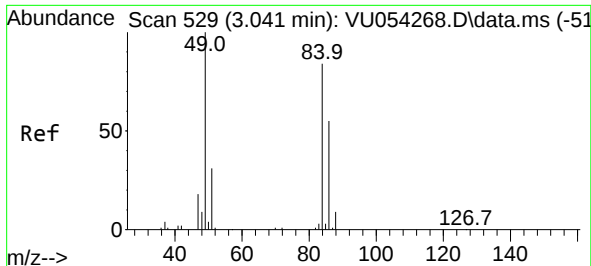
Tgt Ion: 96 Resp: 5027  
Ion Ratio Lower Upper  
96 100  
61 131.8 122.2 183.2  
98 49.3 50.7 76.1#



#16  
Acetone  
Concen: 0.517 ug/l  
RT: 2.633 min Scan# 402  
Delta R.T. -0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Tgt Ion: 43 Resp: 1004  
Ion Ratio Lower Upper  
43 100  
58 38.1 27.5 41.3



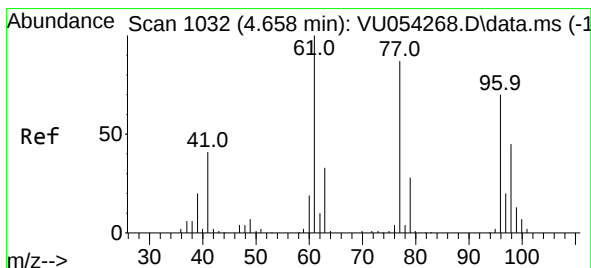
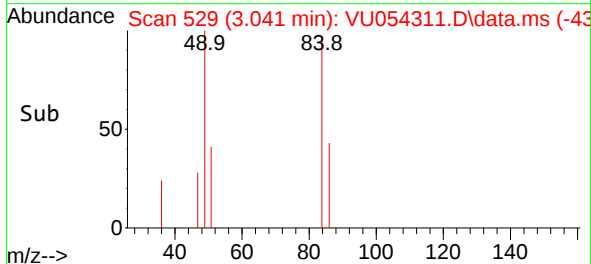
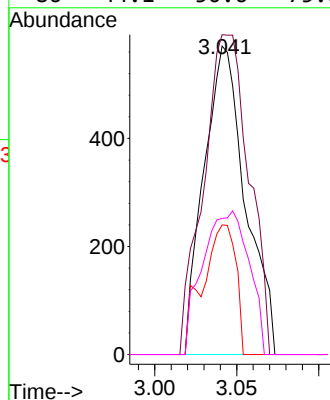
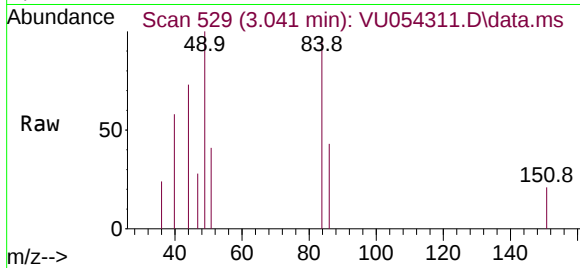


#20  
Methylene Chloride  
Concen: 0.287 ug/l  
RT: 3.041 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

Tgt Ion: 84 Resp: 1007

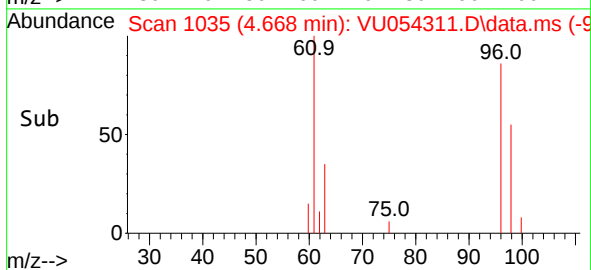
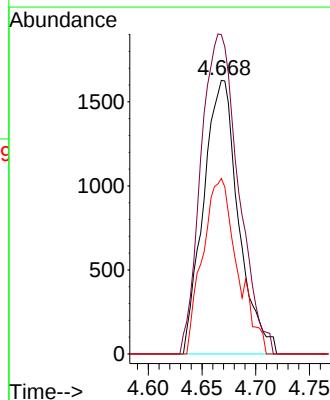
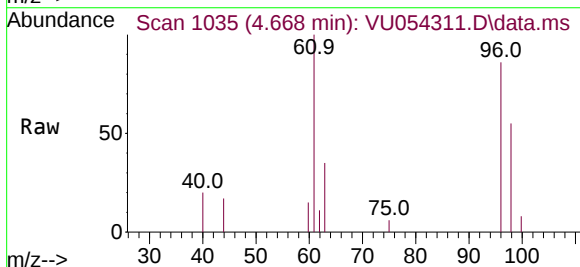
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 103.7 | 86.6  | 129.8 |
| 51  | 42.0  | 26.6  | 40.0# |
| 86  | 44.1  | 50.6  | 75.8# |

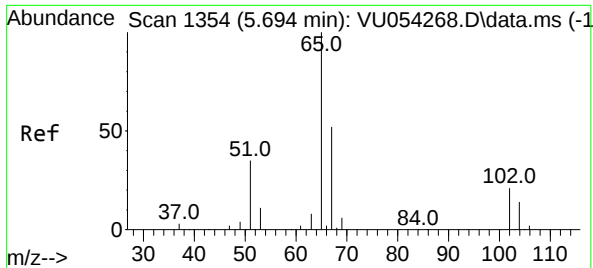


#27  
cis-1,2-Dichloroethene  
Concen: 1.113 ug/l  
RT: 4.668 min Scan# 1035  
Delta R.T. 0.010 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Tgt Ion: 96 Resp: 3685

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 125.7 | 0.0   | 271.6 |
| 98  | 63.5  | 0.0   | 128.2 |





#33

1,2-Dichloroethane-d4

Concen: 52.456 ug/l

RT: 5.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054311.D

Acq: 30 May 2023 14:10

Instrument :

MSVOA\_U

ClientSampleId :

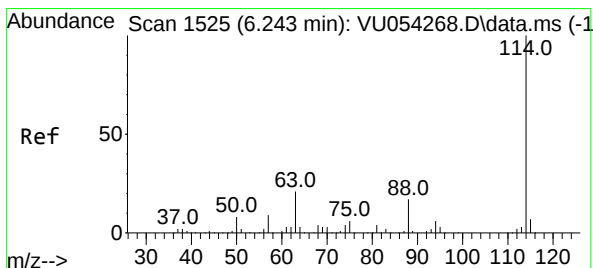
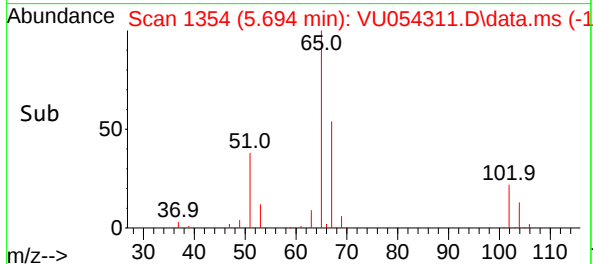
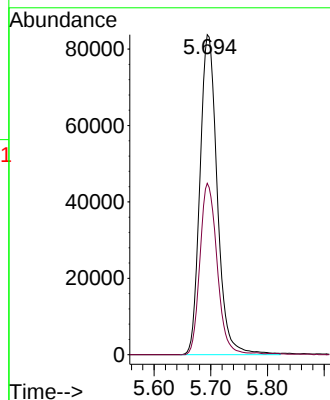
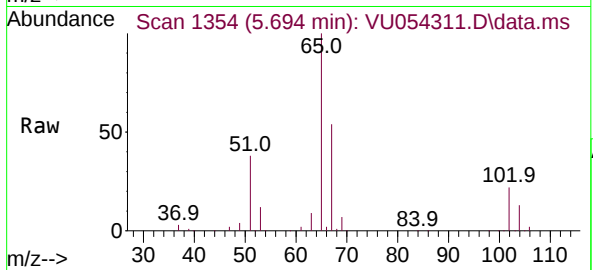
RE134D4-20230523

Tgt Ion: 65 Resp: 177794

Ion Ratio Lower Upper

65 100

67 53.1 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054311.D

Acq: 30 May 2023 14:10

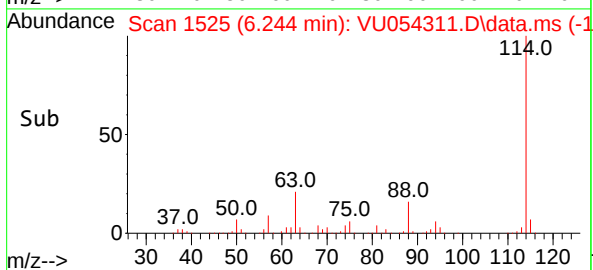
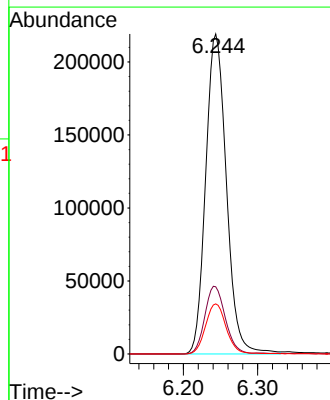
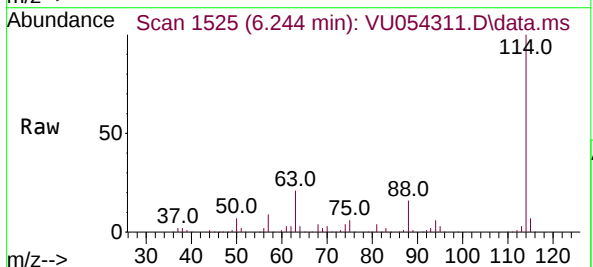
Tgt Ion: 114 Resp: 424724

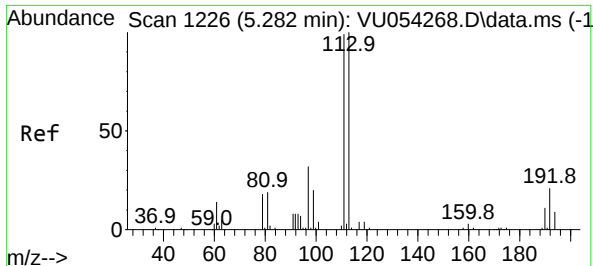
Ion Ratio Lower Upper

114 100

63 21.0 0.0 37.8

88 15.7 0.0 29.2





#35

Dibromofluoromethane

Concen: 52.066 ug/l

RT: 5.285 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054311.D

Acq: 30 May 2023 14:10

Instrument :

MSVOA\_U

ClientSampleId :

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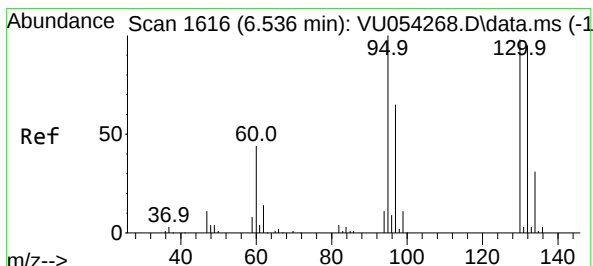
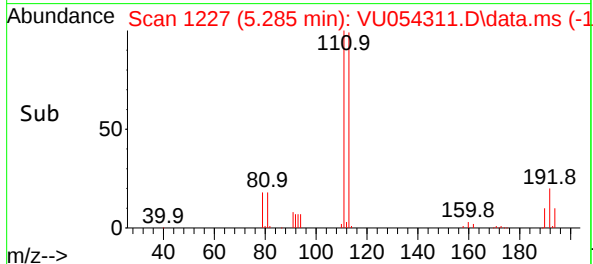
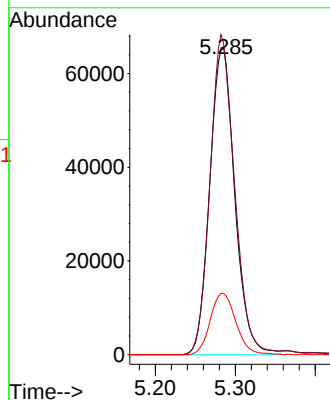
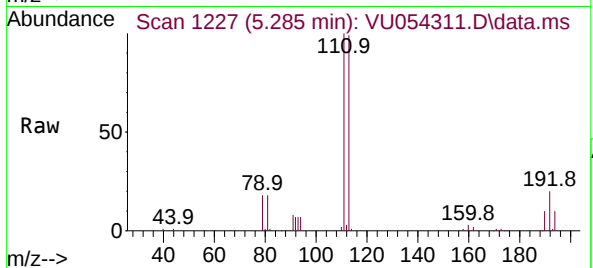
Tgt Ion:113 Resp: 142407

Ion Ratio Lower Upper

113 100

111 101.9 82.1 123.1

192 20.5 18.0 27.0



#44

Trichloroethene

Concen: 33.220 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. 0.000 min

Lab File: VU054311.D

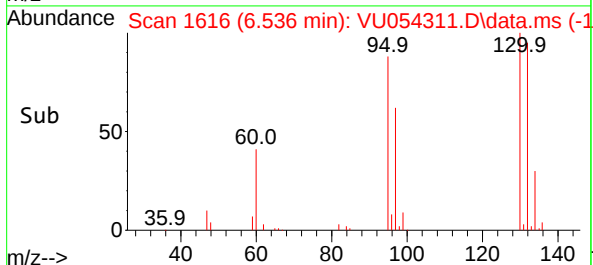
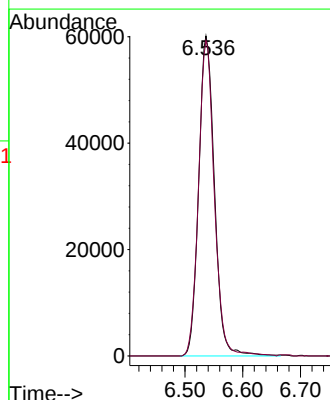
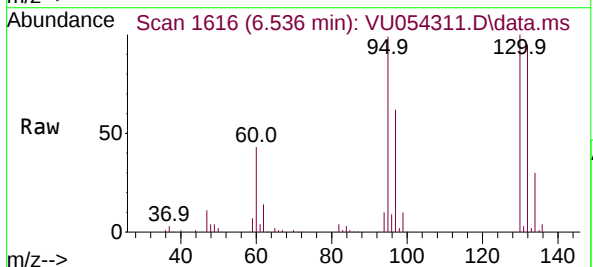
Acq: 30 May 2023 14:10

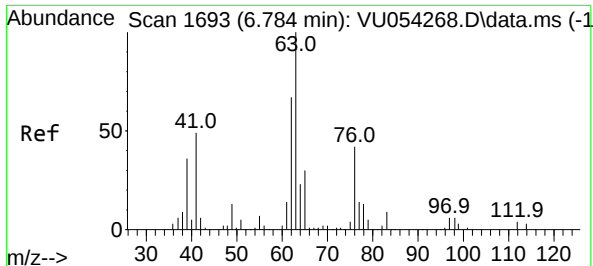
Tgt Ion:130 Resp: 113793

Ion Ratio Lower Upper

130 100

95 98.6 0.0 184.6





#45

1,2-Dichloropropane

Concen: 0.472 ug/l

RT: 6.784 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054311.D

Acq: 30 May 2023 14:10

Instrument :

MSVOA\_U

ClientSampleId :

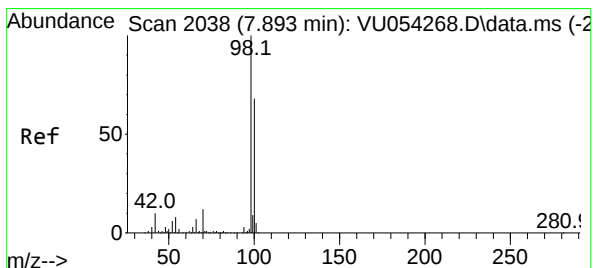
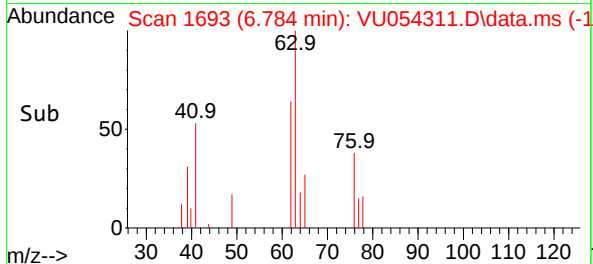
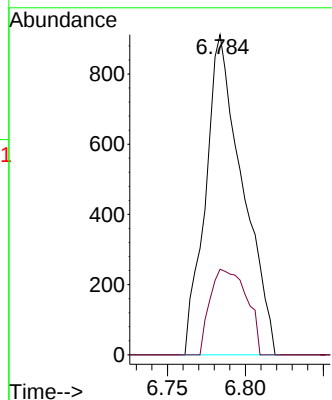
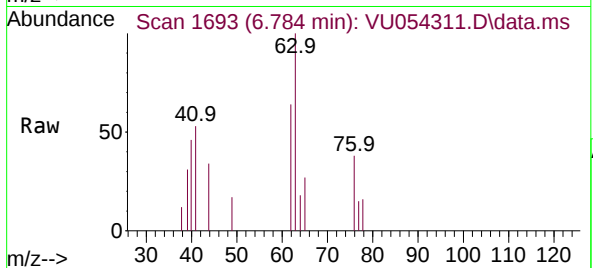
RE134D4-20230523

Tgt Ion: 63 Resp: 1508

Ion Ratio Lower Upper

63 100

65 26.8 25.0 37.4



#50

Toluene-d8

Concen: 50.647 ug/l

RT: 7.893 min Scan# 2038

Delta R.T. -0.000 min

Lab File: VU054311.D

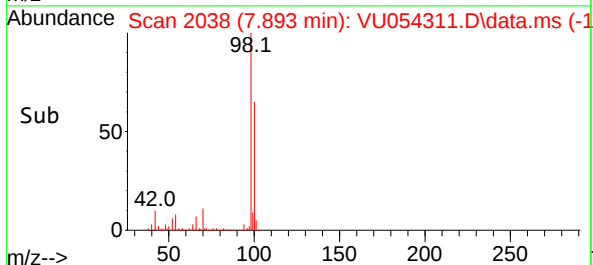
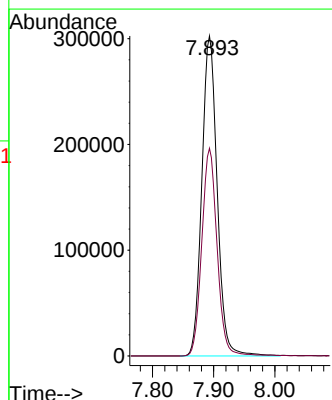
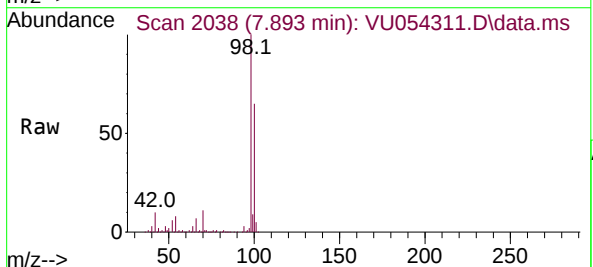
Acq: 30 May 2023 14:10

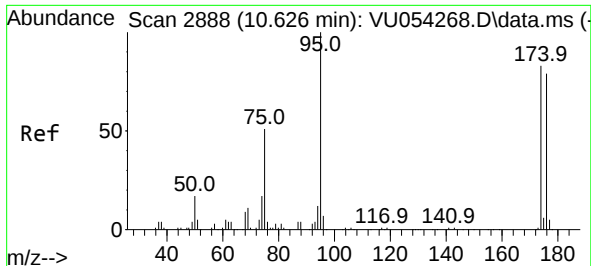
Tgt Ion: 98 Resp: 526912

Ion Ratio Lower Upper

98 100

100 64.7 51.7 77.5

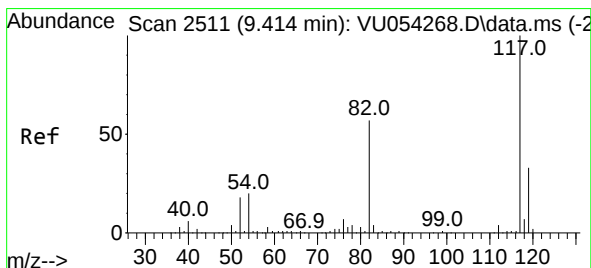
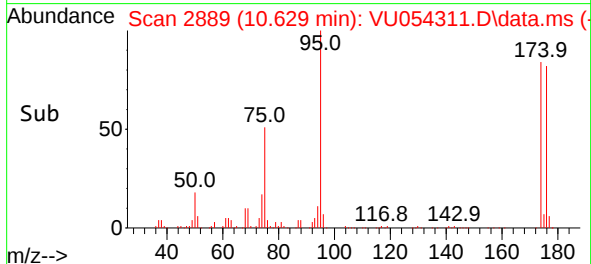
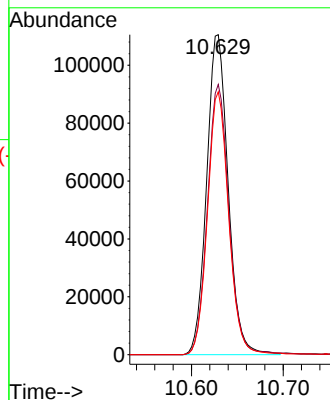
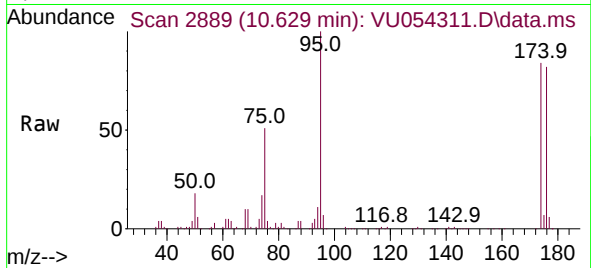




#62  
4-Bromofluorobenzene  
Concen: 44.756 ug/l  
RT: 10.629 min Scan# 2110  
Delta R.T. 0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

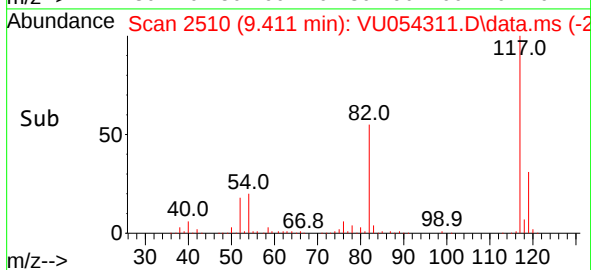
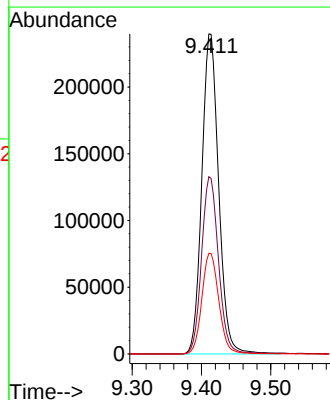
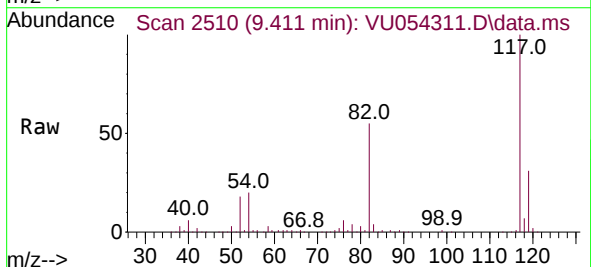
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

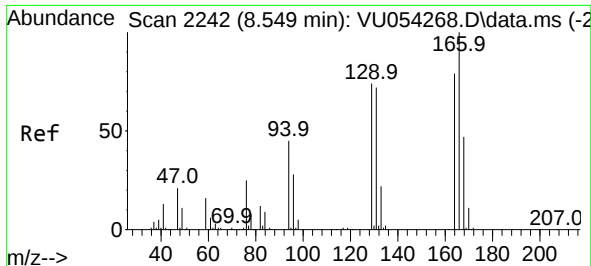
Tgt Ion: 95 Resp: 180542  
Ion Ratio Lower Upper  
95 100  
174 84.7 0.0 182.0  
176 81.1 0.0 177.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.411 min Scan# 2510  
Delta R.T. -0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Tgt Ion: 117 Resp: 404148  
Ion Ratio Lower Upper  
117 100  
82 55.4 41.7 62.5  
119 31.5 25.7 38.5

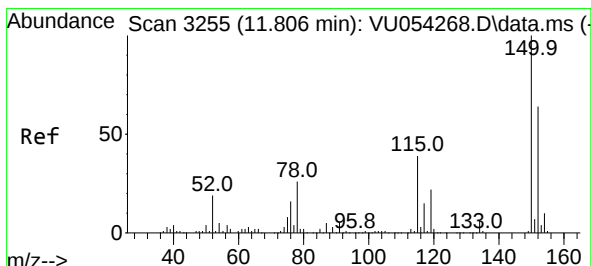
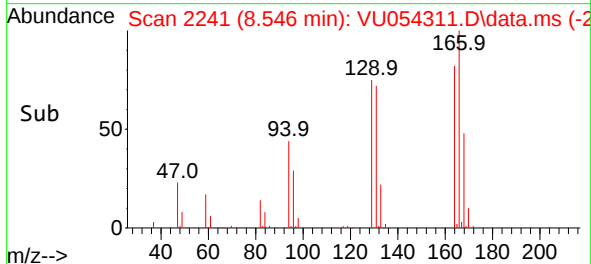
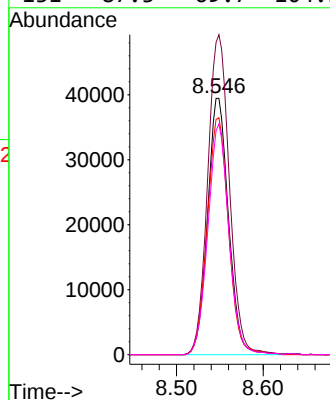
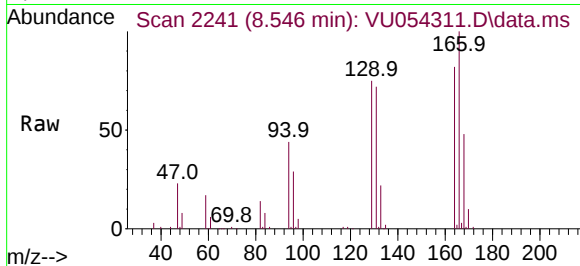




#64  
Tetrachloroethene  
Concen: 21.892 ug/l  
RT: 8.546 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE134D4-20230523

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 66590       |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 166         | 121.8 | 100.0 150.0 |
| 129         | 91.7  | 72.0 108.0  |
| 131         | 87.3  | 69.7 104.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.806 min Scan# 3255  
Delta R.T. -0.000 min  
Lab File: VU054311.D  
Acq: 30 May 2023 14:10

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 190156      |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 115         | 58.6  | 37.0 110.9  |
| 150         | 155.9 | 0.0 342.2   |

