

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052623\  
 Data File : VU054289.D  
 Acq On : 26 May 2023 16:37  
 Operator : JC/MD  
 Sample : 02936-11DL 5X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 8BR-20230524DL

Quant Time: May 30 00:03:28 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

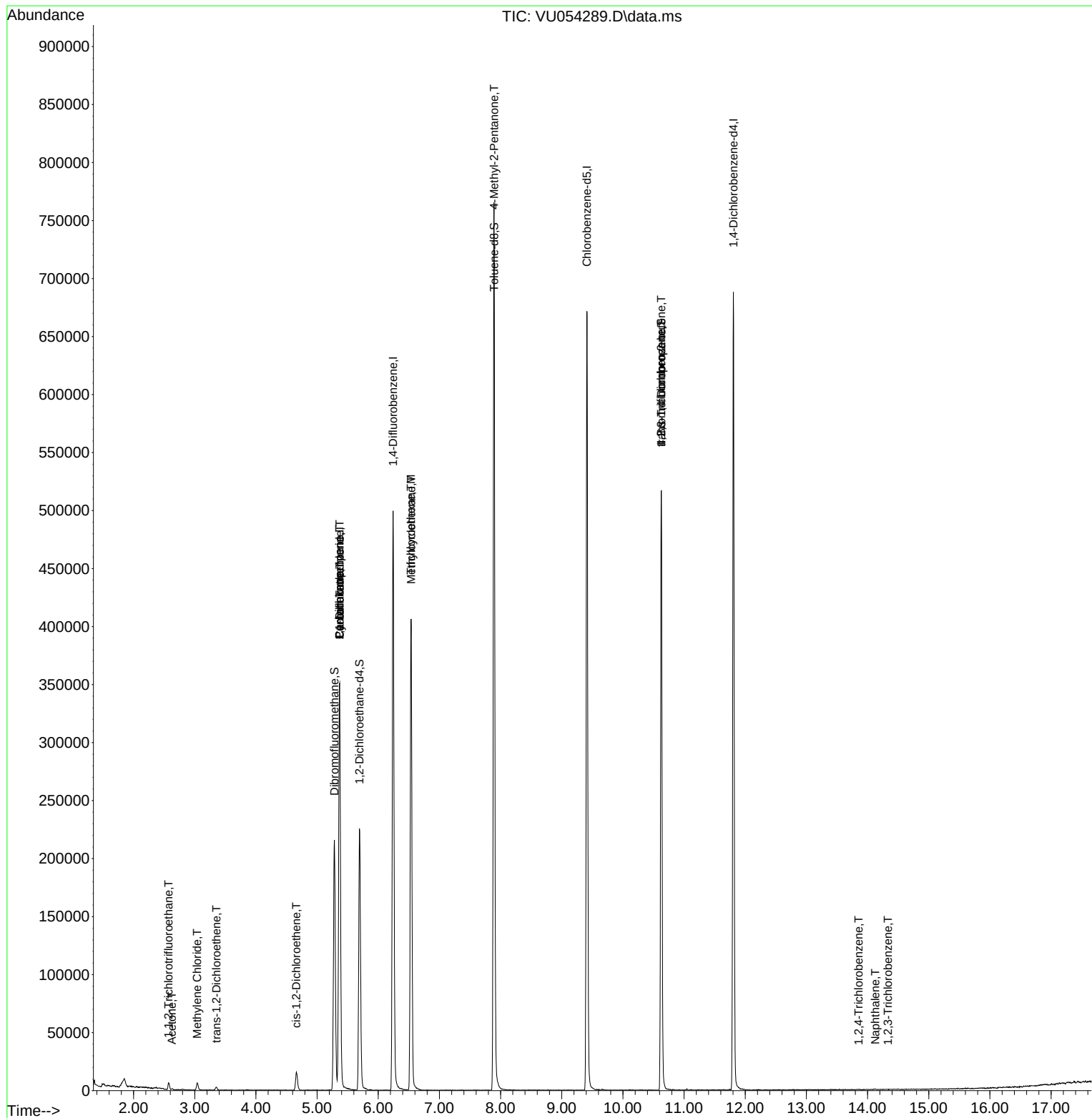
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.369  | 168            | 259231   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.243  | 114            | 418868   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.410  | 117            | 381942   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.806 | 152            | 187647   | 50.000     | ug/l   | 0.00     |
|                               |        |                |          |            |        |          |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.694  | 65             | 171299   | 50.408     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 100.820% |        |          |
| 35) Dibromofluoromethane      | 5.282  | 113            | 138593   | 51.380     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 102.760% |        |          |
| 50) Toluene-d8                | 7.893  | 98             | 513139   | 50.013     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 100.020% |        |          |
| 62) 4-Bromofluorobenzene      | 10.629 | 95             | 174402   | 43.838     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 87.680%  |        |          |
|                               |        |                |          |            |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.571  | 101            | 2486     | 0.923      | ug/l   | 96       |
| 16) Acetone                   | 2.626  | 43             | 503      | 0.258      | ug/l   | 93       |
| 20) Methylene Chloride        | 3.038  | 84             | 3219     | 0.916      | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene  | 3.353  | 96             | 1258     | 0.421      | ug/l   | 83       |
| 27) cis-1,2-Dichloroethene    | 4.661  | 96             | 8931     | 2.689      | ug/l   | 94       |
| 31) Cyclohexane               | 5.369  | 56             | 4627     | 0.964      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.366  | 75             | 19510    | 4.605      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.369  | 117            | 25213    | 5.814      | ug/l # | 16       |
| 39) Methylcyclohexane         | 6.539  | 83             | 1860     | 0.388      | ug/l # | 1        |
| 44) Trichloroethene           | 6.536  | 130            | 143921   | 42.603     | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 7.896  | 43             | 2099     | 0.442      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 10.626 | 75             | 88859    | 16.225     | ug/l # | 45       |
| 81) trans-1,4-Dichloro-2-b... | 10.626 | 75             | 88859    | 61.784     | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 13.854 | 180            | 95       | 1.665      | ug/l # | 21       |
| 95) Naphthalene               | 14.124 | 128            | 564      | 2.030      | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 14.333 | 180            | 47       | 1.265      | ug/l # | 58       |
| -----                         |        |                |          |            |        |          |

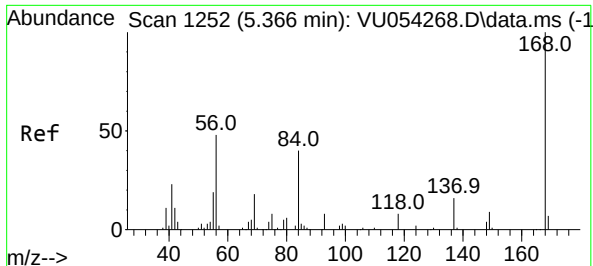
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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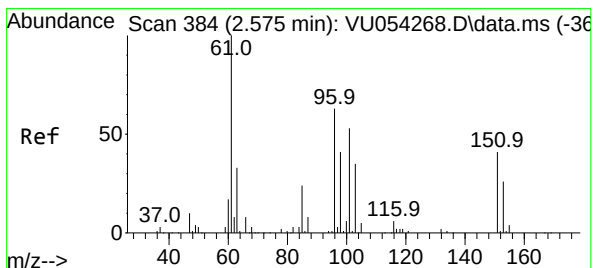
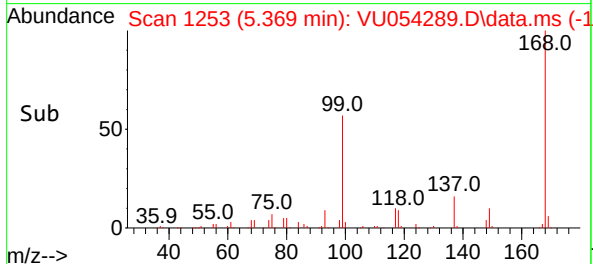
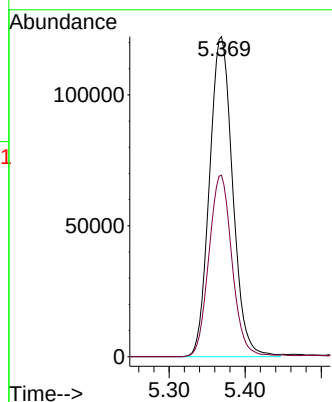
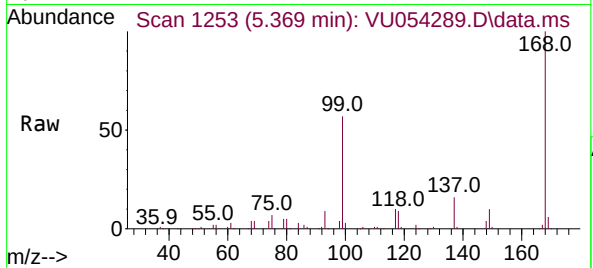




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

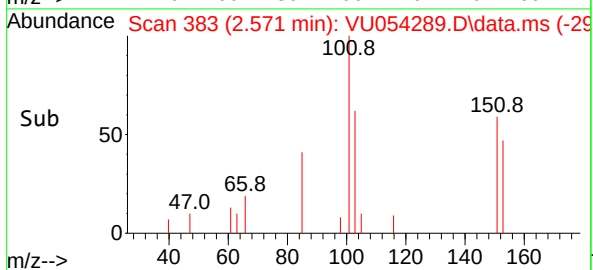
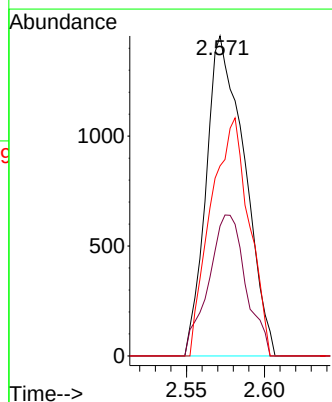
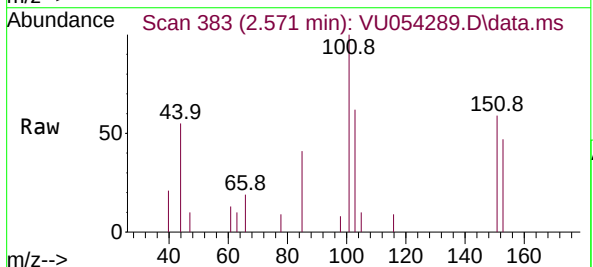
Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

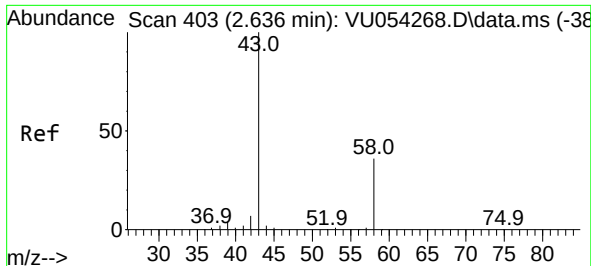
Tgt Ion:168 Resp: 259231  
Ion Ratio Lower Upper  
168 100  
99 56.7 39.3 58.9



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.923 ug/l  
RT: 2.571 min Scan# 383  
Delta R.T. -0.004 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion:101 Resp: 2486  
Ion Ratio Lower Upper  
101 100  
85 42.9 33.9 50.9  
151 74.5 64.0 96.0





#16

Acetone

Concen: 0.258 ug/l

RT: 2.626 min Scan# 403

Delta R.T. -0.010 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

Instrument :

MSVOA\_U

ClientSampleId :

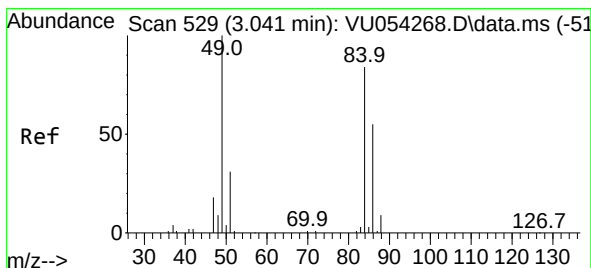
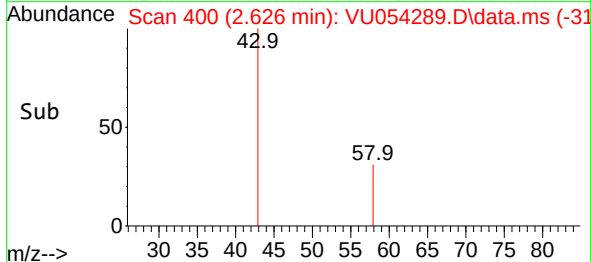
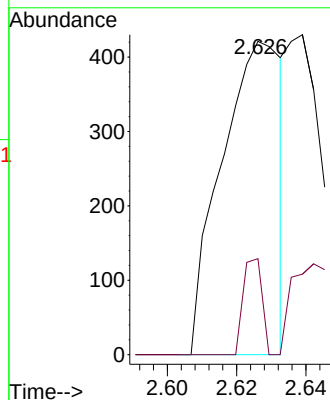
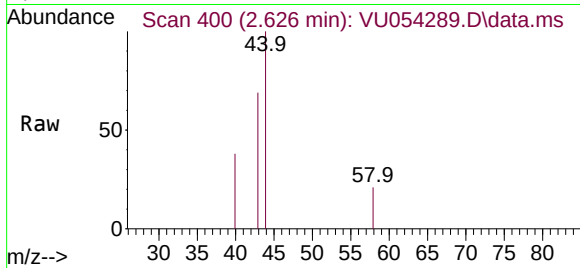
8BR-20230524DL

Tgt Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

58 30.6 27.5 41.3



#20

Methylene Chloride

Concen: 0.916 ug/l

RT: 3.038 min Scan# 528

Delta R.T. -0.003 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

Tgt Ion: 84 Resp: 3219

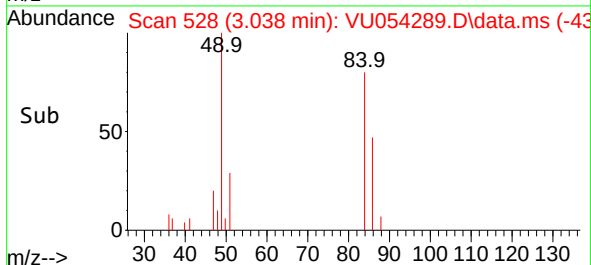
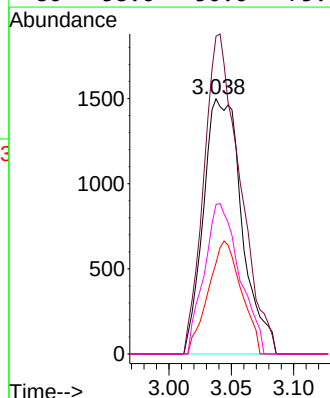
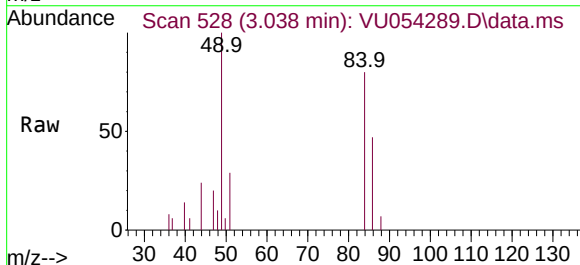
Ion Ratio Lower Upper

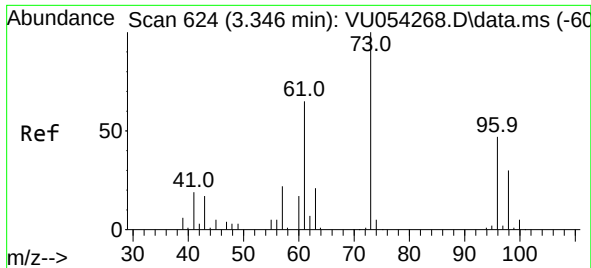
84 100

49 124.6 86.6 129.8

51 35.7 26.6 40.0

86 58.6 50.6 75.8

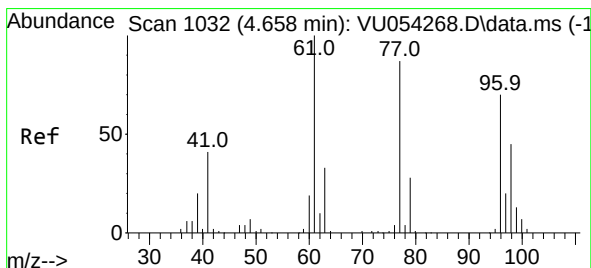
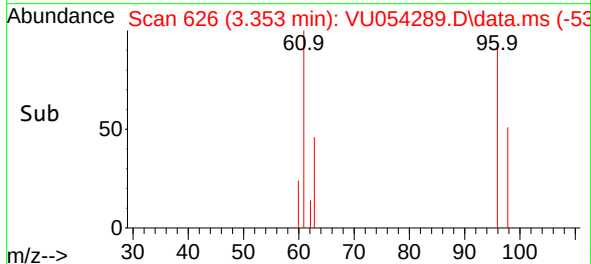
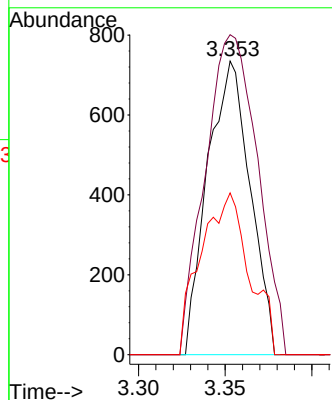
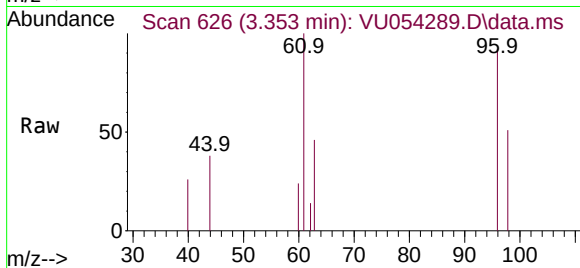




#21  
trans-1,2-Dichloroethene  
Concen: 0.421 ug/l  
RT: 3.353 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

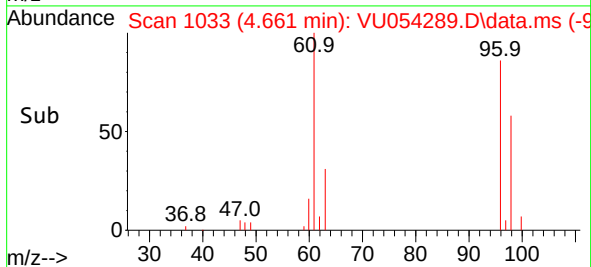
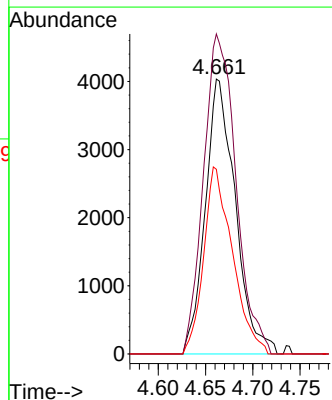
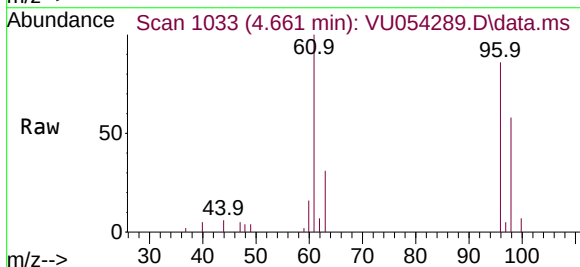
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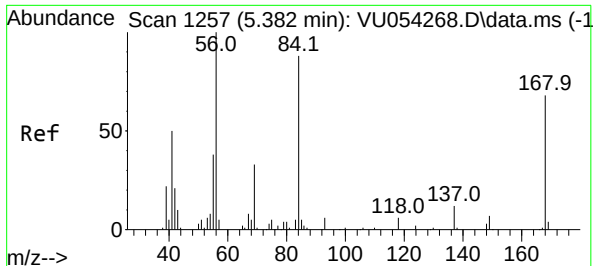
Tgt Ion: 96 Resp: 1258  
Ion Ratio Lower Upper  
96 100  
61 109.0 106.1 159.1  
98 55.1 50.8 76.2



#27  
cis-1,2-Dichloroethene  
Concen: 2.689 ug/l  
RT: 4.661 min Scan# 1033  
Delta R.T. 0.003 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion: 96 Resp: 8931  
Ion Ratio Lower Upper  
96 100  
61 125.4 0.0 271.6  
98 65.1 0.0 128.2

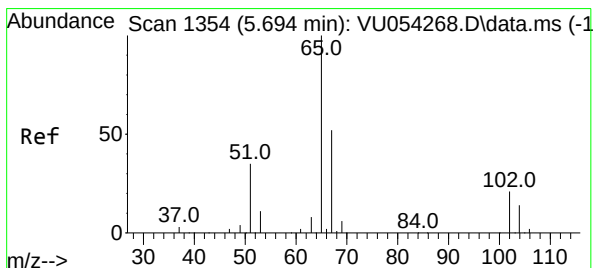
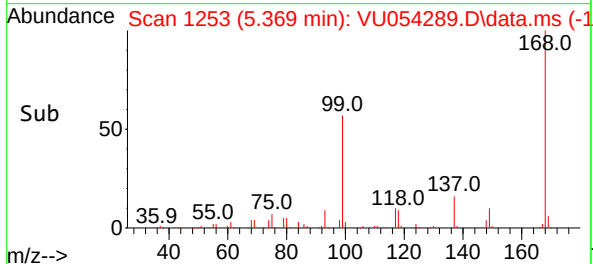
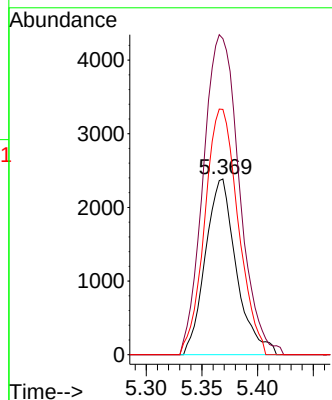
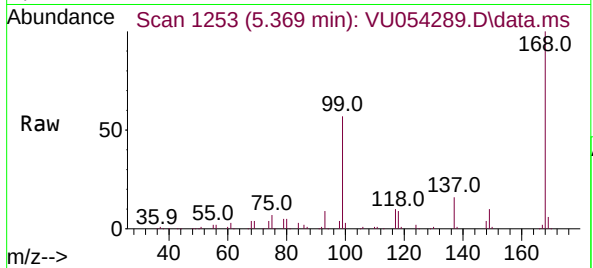




#31  
Cyclohexane  
Concen: 0.964 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.013 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

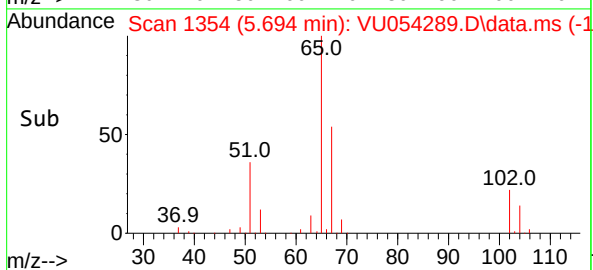
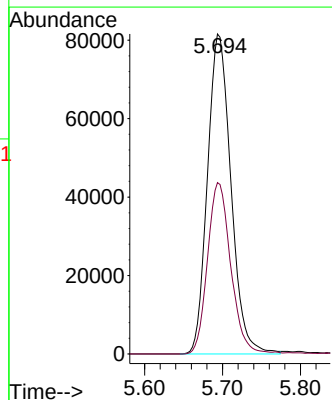
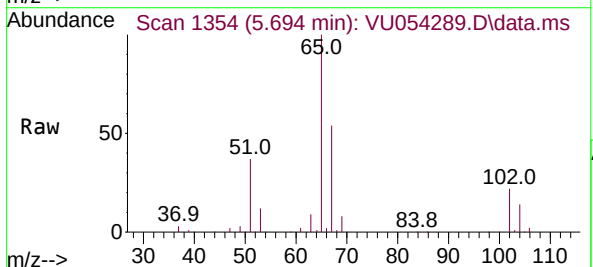
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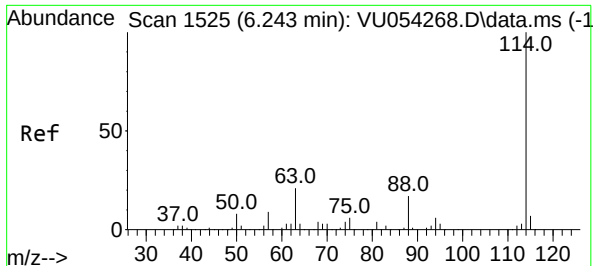
Tgt Ion: 56 Resp: 4627  
Ion Ratio Lower Upper  
56 100  
69 179.9 27.8 41.8#  
84 139.7 74.2 111.4#



#33  
1,2-Dichloroethane-d4  
Concen: 50.408 ug/l  
RT: 5.694 min Scan# 1354  
Delta R.T. -0.000 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion: 65 Resp: 171299  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

Instrument :

MSVOA\_U

ClientSampleId :

8BR-20230524DL

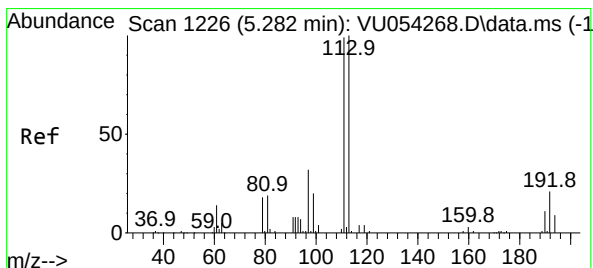
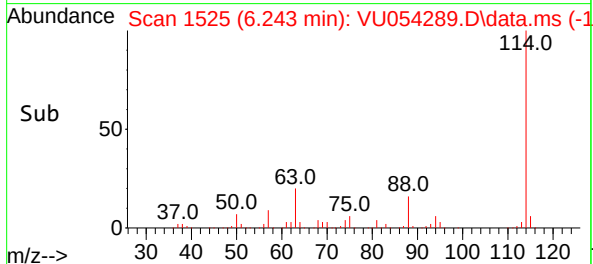
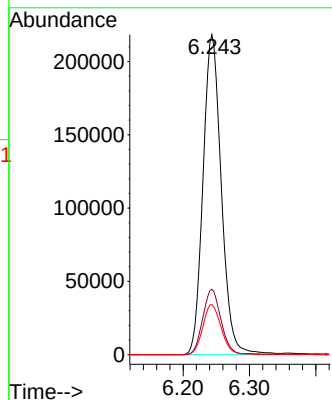
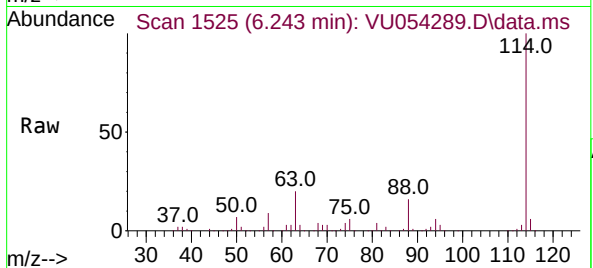
Tgt Ion:114 Resp: 418868

Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.8

88 15.7 0.0 29.2



#35

Dibromofluoromethane

Concen: 51.380 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

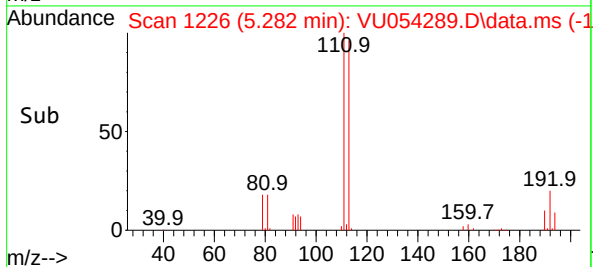
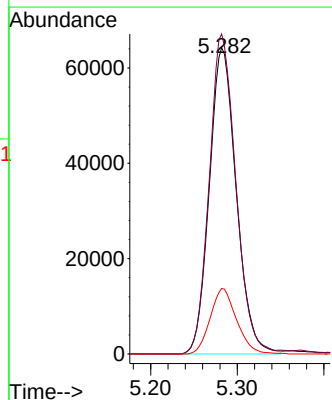
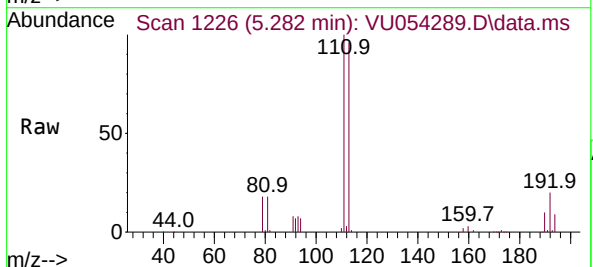
Tgt Ion:113 Resp: 138593

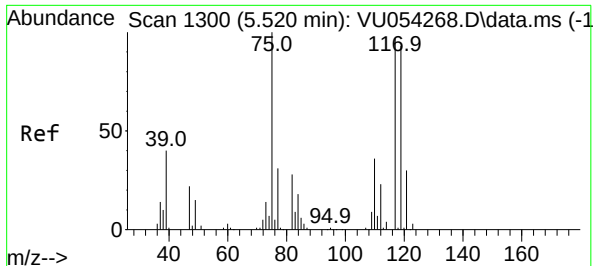
Ion Ratio Lower Upper

113 100

111 103.4 82.1 123.1

192 21.0 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.605 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

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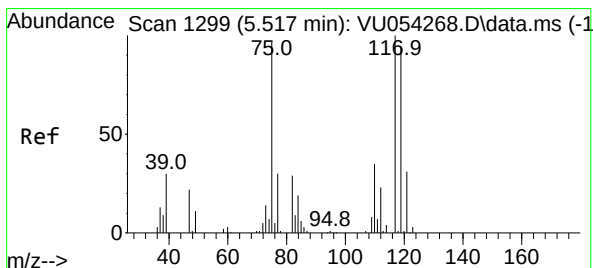
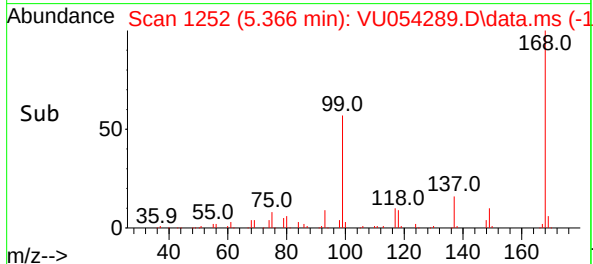
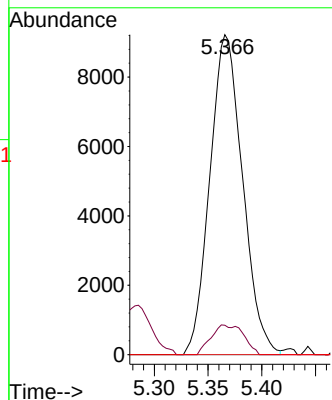
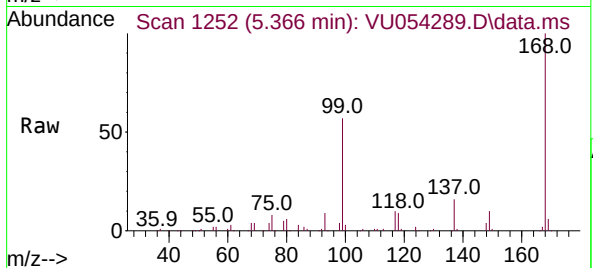
Tgt Ion: 75 Resp: 19510

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.814 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

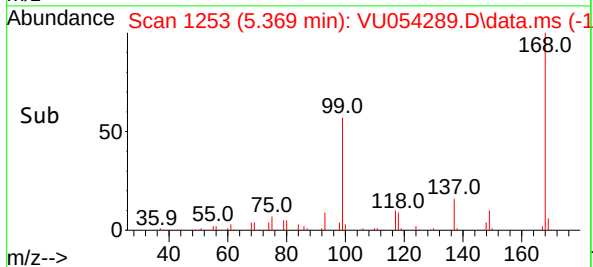
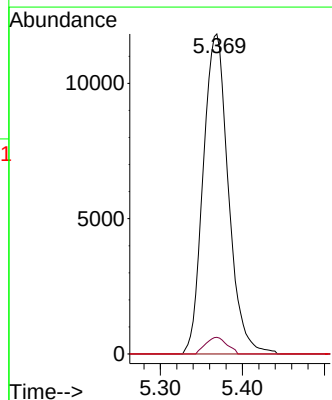
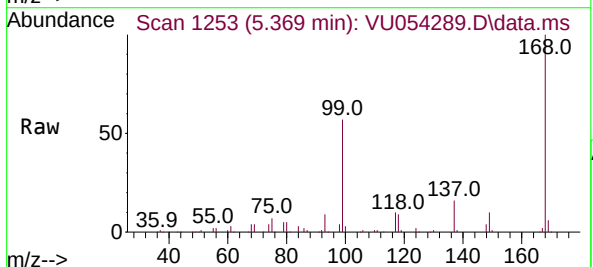
Tgt Ion: 117 Resp: 25213

Ion Ratio Lower Upper

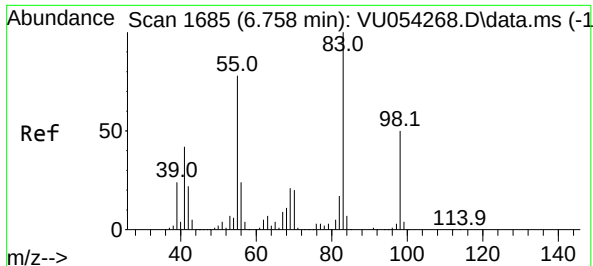
117 100

119 5.2 76.8 115.2#

121 0.0 24.7 37.1#







#39

Methylcyclohexane

Concen: 0.388 ug/l

RT: 6.539 min Scan# 1

Delta R.T. -0.219 min

Lab File: VU054289.D

Acq: 26 May 2023 16:37

Instrument :

MSVOA\_U

ClientSampleId :

8BR-20230524DL

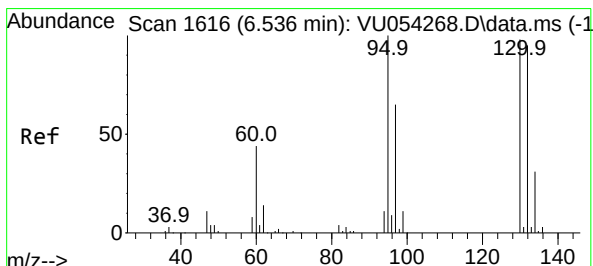
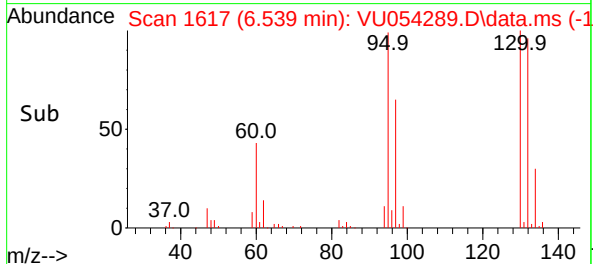
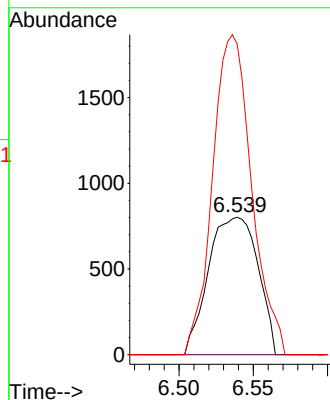
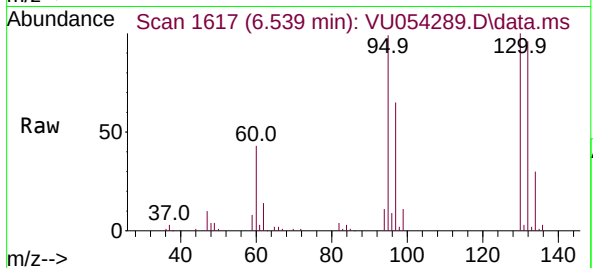
Tgt Ion: 83 Resp: 1860

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 226.1 37.3 55.9#



#44

Trichloroethene

Concen: 42.603 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. -0.000 min

Lab File: VU054289.D

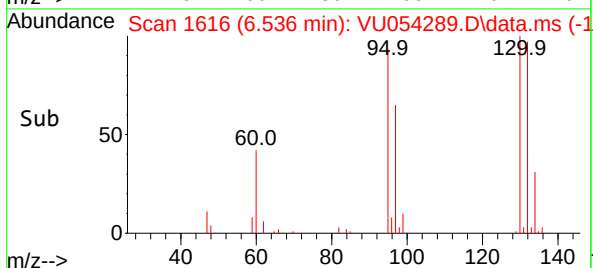
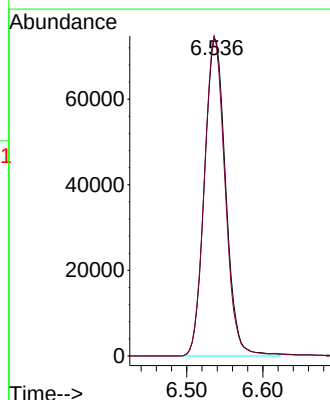
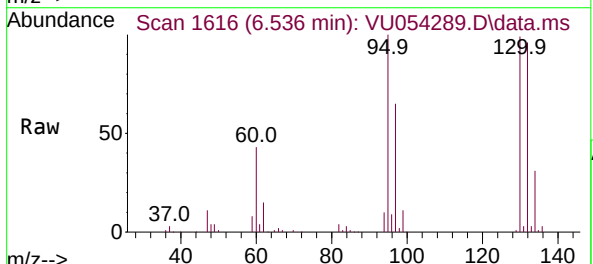
Acq: 26 May 2023 16:37

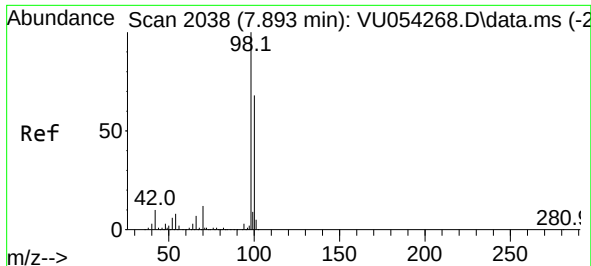
Tgt Ion:130 Resp: 143921

Ion Ratio Lower Upper

130 100

95 100.6 0.0 184.6

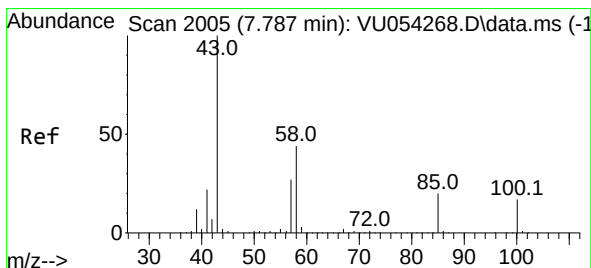
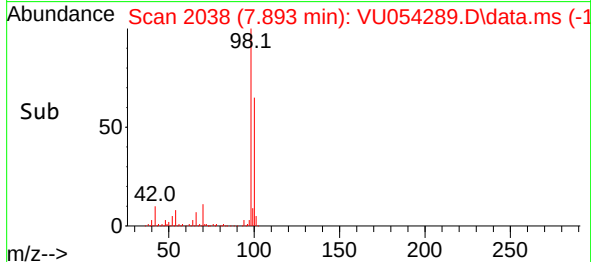
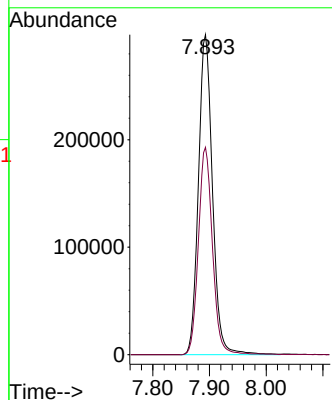
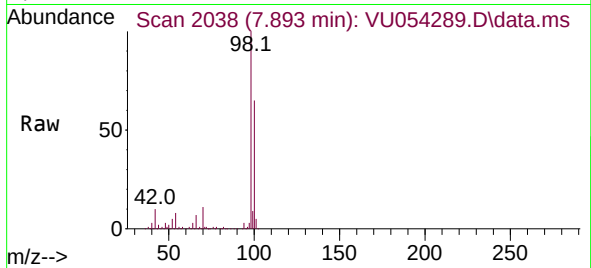




#50  
Toluene-d8  
Concen: 50.013 ug/l  
RT: 7.893 min Scan# 2038  
Delta R.T. -0.000 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

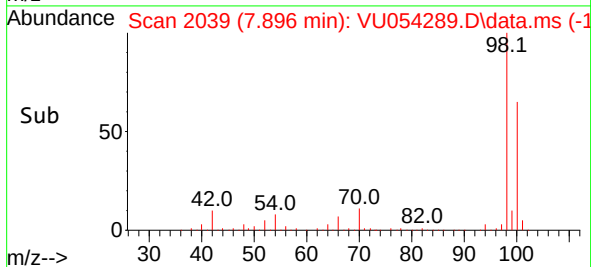
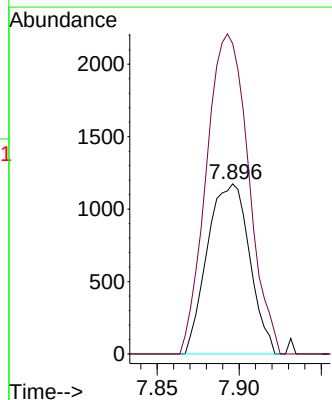
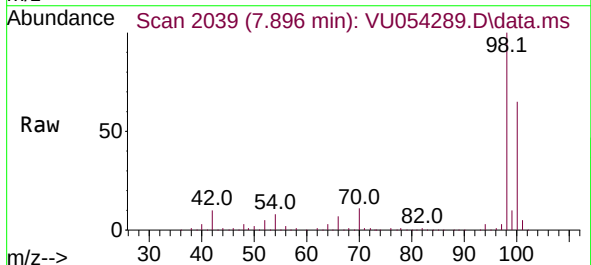
Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

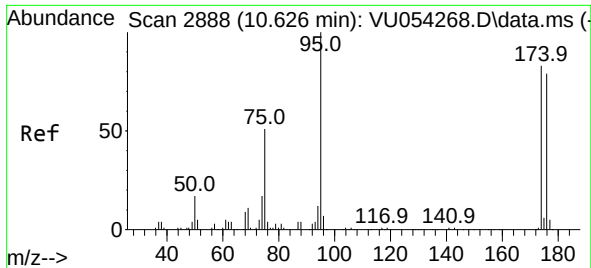
Tgt Ion: 98 Resp: 513139  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.442 ug/l  
RT: 7.896 min Scan# 2039  
Delta R.T. 0.109 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion: 43 Resp: 2099  
Ion Ratio Lower Upper  
43 100  
58 187.9 34.7 52.1#

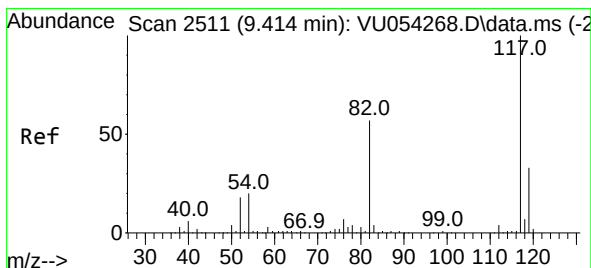
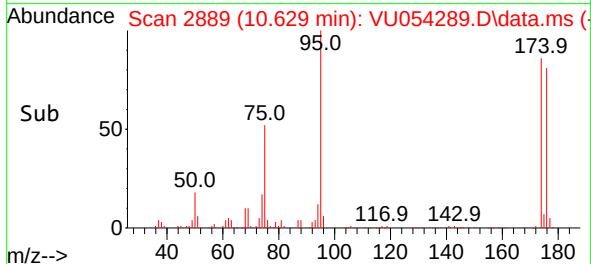
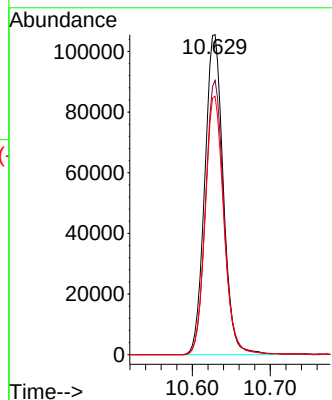
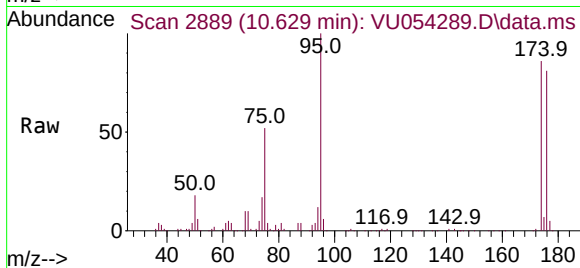




#62  
4-Bromofluorobenzene  
Concen: 43.838 ug/l  
RT: 10.629 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

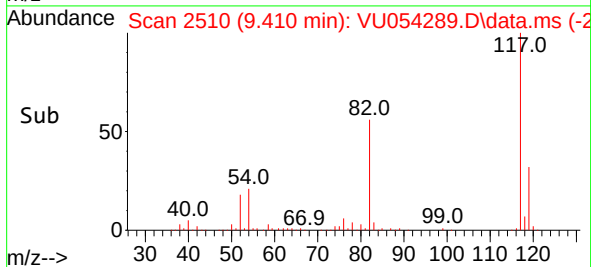
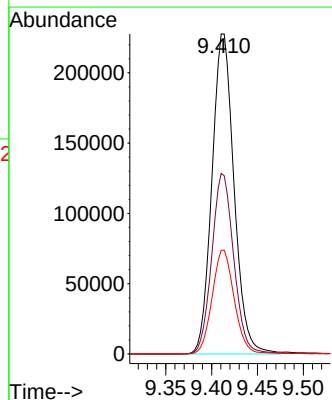
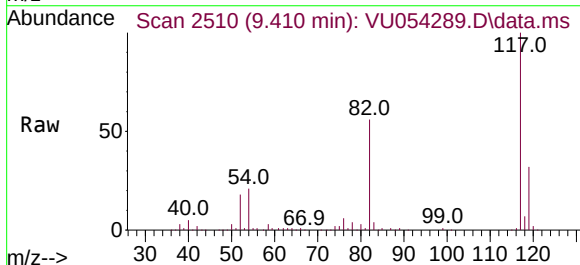
Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

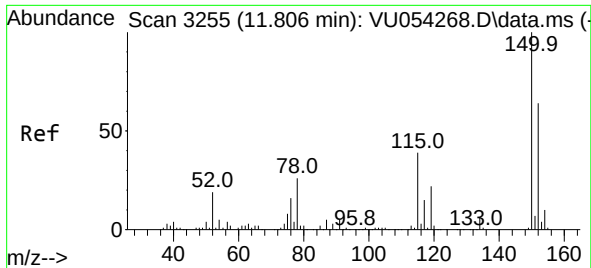
Tgt Ion: 95 Resp: 174402  
Ion Ratio Lower Upper  
95 100  
174 84.4 0.0 182.0  
176 81.3 0.0 177.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.410 min Scan# 2510  
Delta R.T. -0.004 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion: 117 Resp: 381942  
Ion Ratio Lower Upper  
117 100  
82 56.4 41.7 62.5  
119 32.4 25.7 38.5

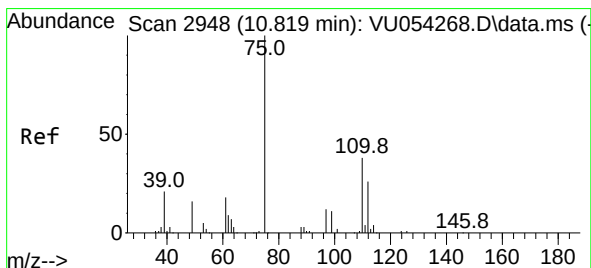
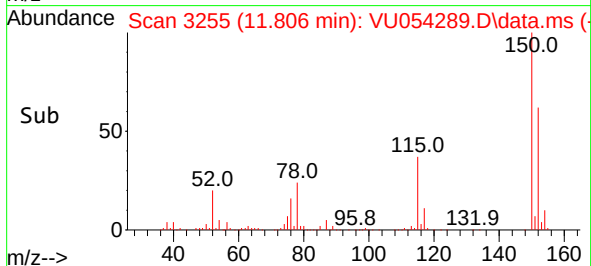
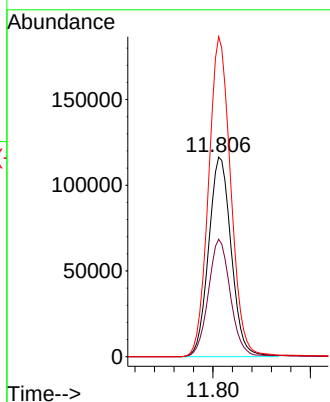
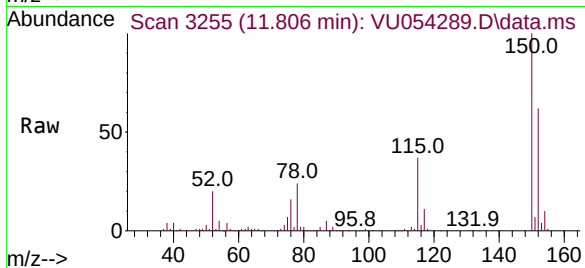




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.806 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

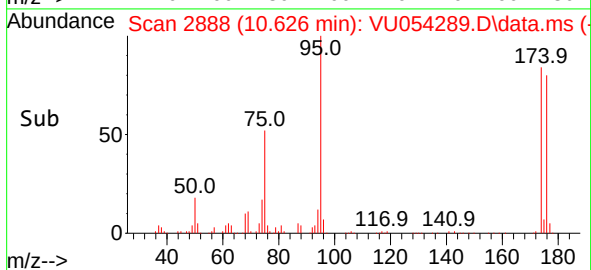
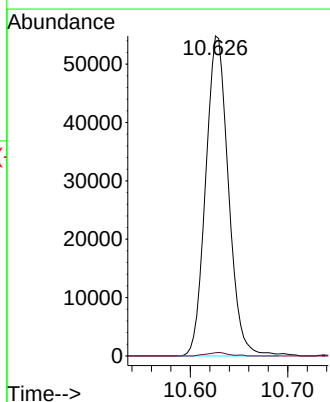
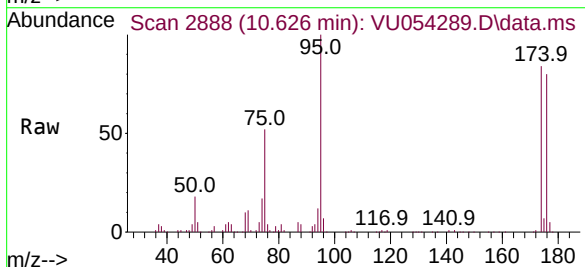
Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

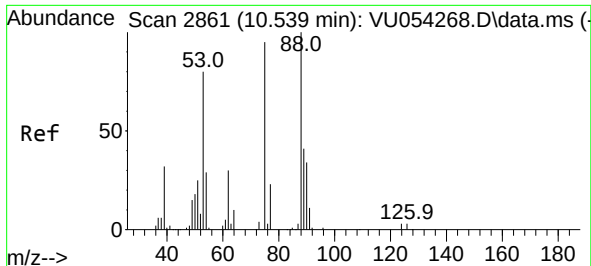
Tgt Ion:152 Resp: 187647  
Ion Ratio Lower Upper  
152 100  
115 57.6 37.0 110.9  
150 158.5 0.0 342.2



#76  
1,2,3-Trichloropropane  
Concen: 16.225 ug/l  
RT: 10.626 min Scan# 2888  
Delta R.T. -0.193 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion: 75 Resp: 88859  
Ion Ratio Lower Upper  
75 100  
77 1.0 15.8 47.3#

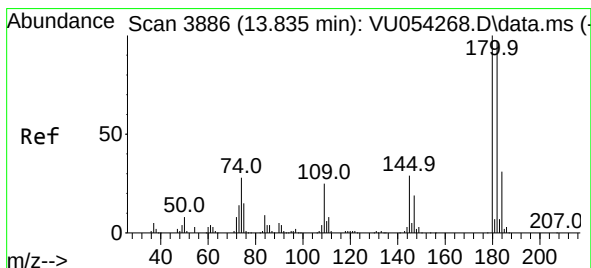
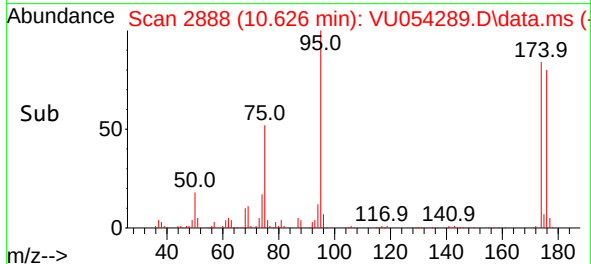
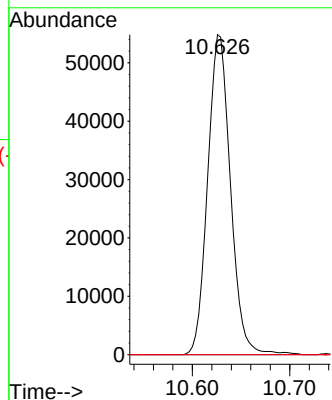
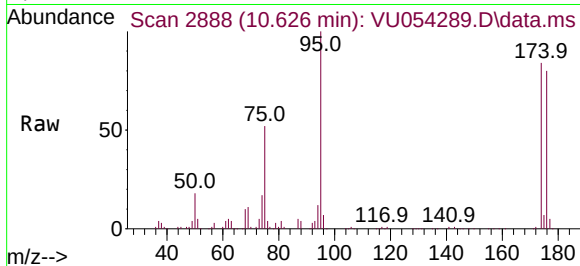




#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.784 ug/l  
RT: 10.626 min Scan# 21  
Delta R.T. 0.087 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

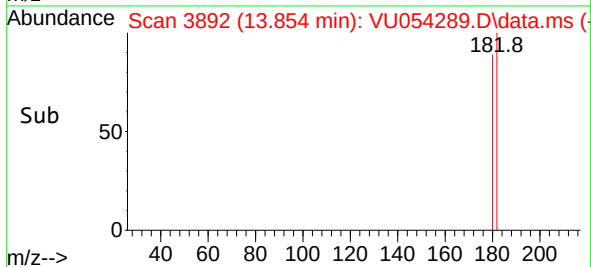
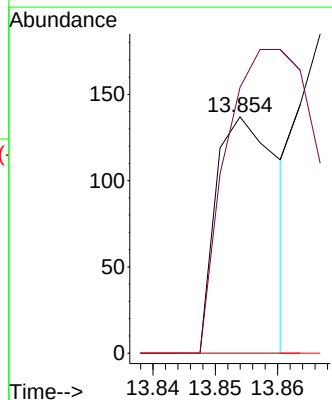
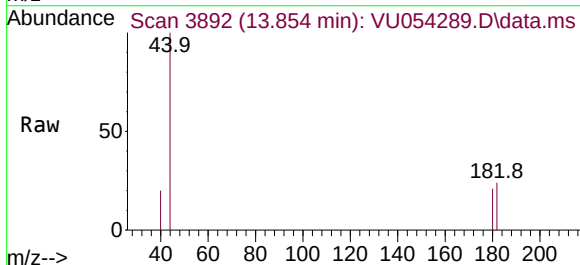
Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

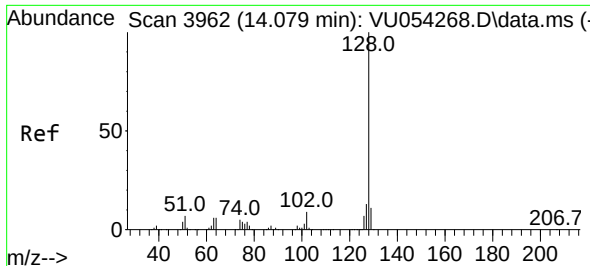
Tgt Ion: 75 Resp: 88859  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.2 103.8#  
89 0.0 37.0 55.6#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.665 ug/l  
RT: 13.854 min Scan# 3892  
Delta R.T. 0.019 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion:180 Resp: 95  
Ion Ratio Lower Upper  
180 100  
182 180.0 47.9 143.6#  
145 0.0 14.0 41.9#

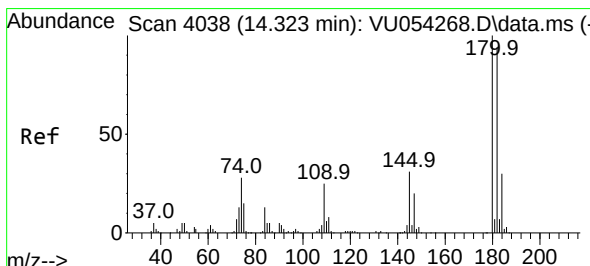
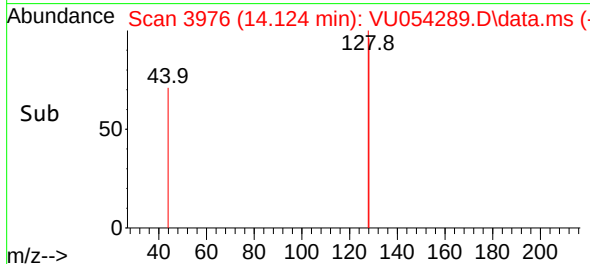
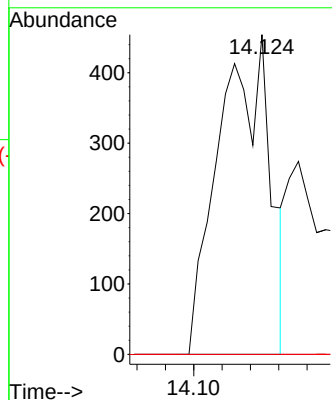
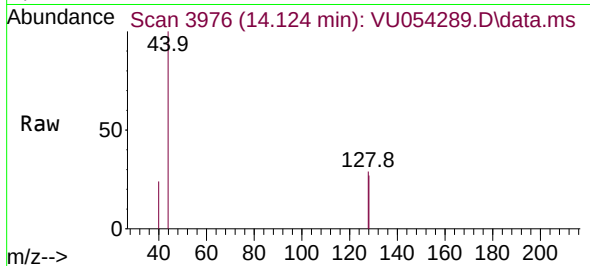




#95  
Naphthalene  
Concen: 2.030 ug/l  
RT: 14.124 min Scan# 3962  
Delta R.T. 0.045 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
8BR-20230524DL

Tgt Ion:128 Resp: 564  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 1.265 ug/l  
RT: 14.333 min Scan# 4041  
Delta R.T. 0.010 min  
Lab File: VU054289.D  
Acq: 26 May 2023 16:37

Tgt Ion:180 Resp: 47  
Ion Ratio Lower Upper  
180 100  
182 134.0 48.4 145.0  
145 0.0 14.8 44.4#

