

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082622\  
 Data File : VX030845.D  
 Acq On : 27 Aug 2022 04:19  
 Operator : JC/MD  
 Sample : N4281-03 40X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D2-20220818

Quant Time: Aug 27 06:29:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X082522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 02:03:28 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 228696   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 386726   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 343595   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 148662   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 144950   | 53.883   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 107.760% |      |
| 35) Dibromofluoromethane    | 5.391  | 113   | 121934   | 51.303   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 102.600% |      |
| 50) Toluene-d8              | 8.653  | 98    | 456370   | 55.103   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 110.200% |      |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 153104   | 49.653   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 99.300%  |      |

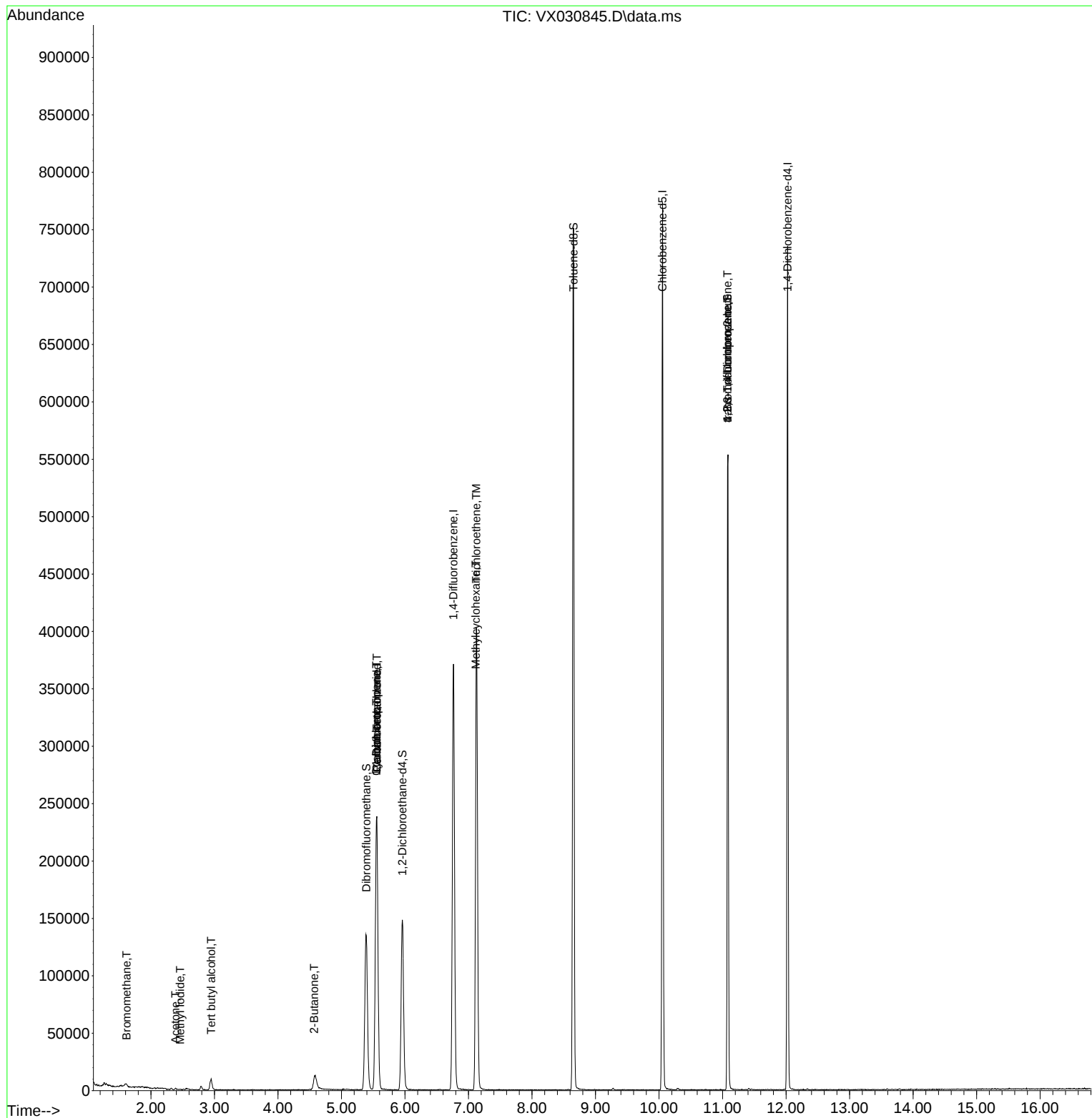
|                               |        |     |        |           |        |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| Target Compounds              |        |     | Qvalue |           |        |    |
| 3) Chloromethane              | 1.295  | 50  | 379    | Below Cal | #      | 69 |
| 4) Vinyl Chloride             | 1.374  | 62  | 45     | Below Cal | #      | 43 |
| 5) Bromomethane               | 1.618  | 94  | 444    | 0.417     | ug/l # | 75 |
| 6) Chloroethane               | 1.697  | 64  | 106    | Below Cal | #      | 41 |
| 10) Methyl Iodide             | 2.459  | 142 | 399    | 4.227     | ug/l # | 78 |
| 11) Tert butyl alcohol        | 2.947  | 59  | 6388   | 10.939    | ug/l # | 74 |
| 16) Acetone                   | 2.386  | 43  | 1486   | 1.195     | ug/l # | 88 |
| 17) Carbon Disulfide          | 2.514  | 76  | 611    | Below Cal | #      | 74 |
| 20) Methylene Chloride        | 2.794  | 84  | 1542   | Below Cal | #      | 75 |
| 25) 2-Butanone                | 4.568  | 43  | 408    | 0.204     | ug/l # | 48 |
| 31) Cyclohexane               | 5.550  | 56  | 4943   | 1.437     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 5.550  | 75  | 19268  | 5.953     | ug/l # | 48 |
| 38) Carbon Tetrachloride      | 5.556  | 117 | 23147  | 6.780     | ug/l # | 18 |
| 39) Methylcyclohexane         | 7.117  | 83  | 2040   | 0.527     | ug/l # | 1  |
| 44) Trichloroethene           | 7.123  | 130 | 159580 | 57.044    | ug/l   | 93 |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 75917  | 23.309    | ug/l # | 38 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 75917  | 75.205    | ug/l # | 13 |

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

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QLast Update : Fri Aug 26 02:03:28 2022  
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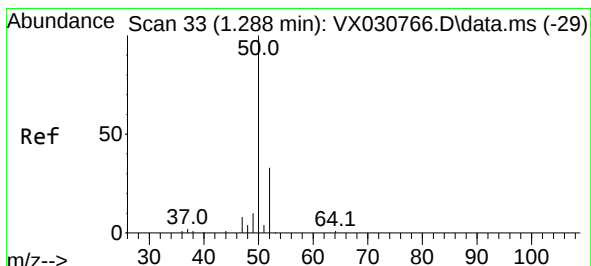
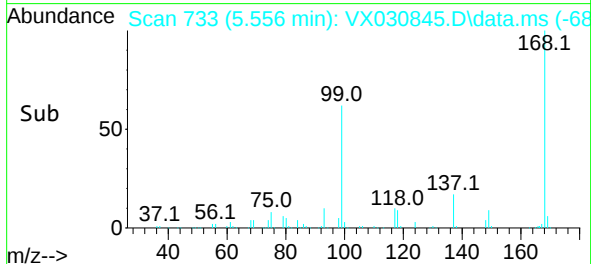
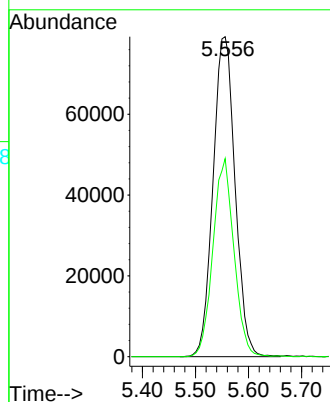
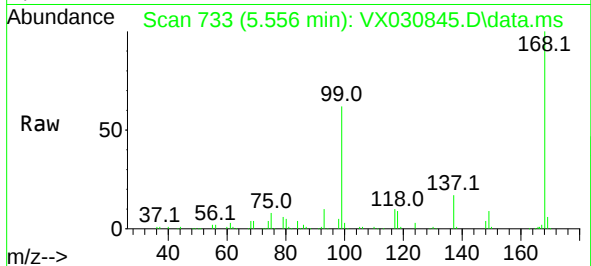




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

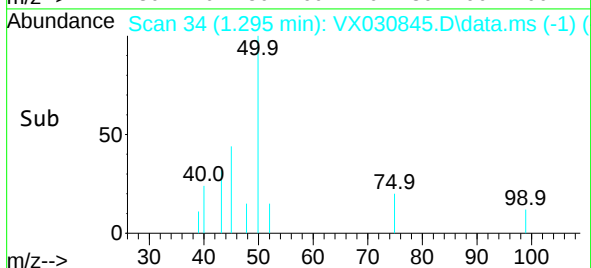
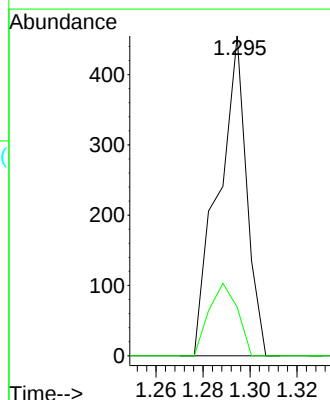
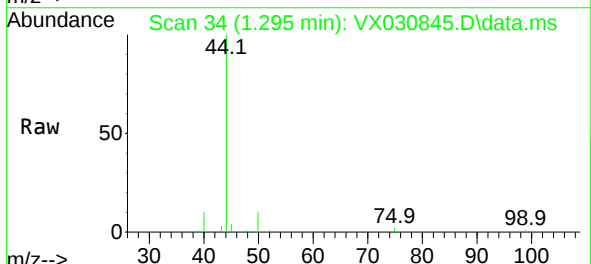
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20220818

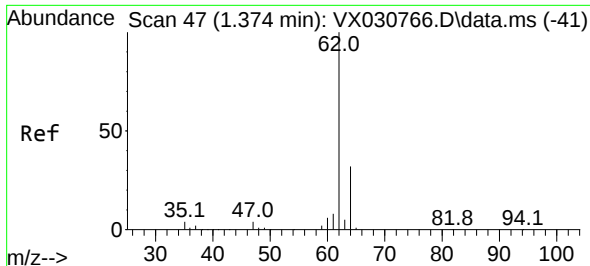
Tgt Ion:168 Resp: 228696  
Ion Ratio Lower Upper  
168 100  
99 61.9 44.0 66.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.295 min Scan# 34  
Delta R.T. 0.007 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 50 Resp: 379  
Ion Ratio Lower Upper  
50 100  
52 15.2 26.3 39.5

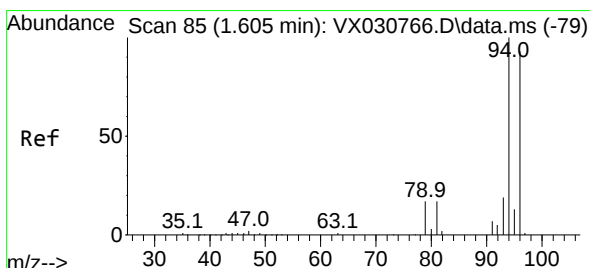
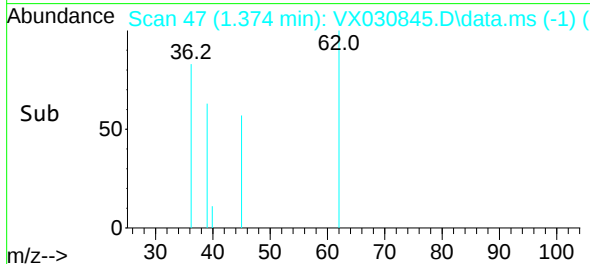
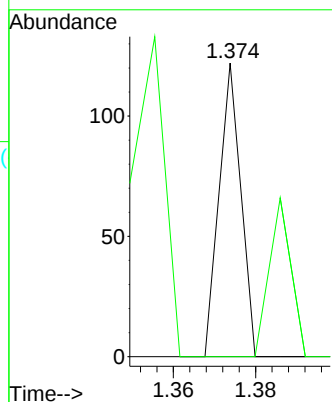
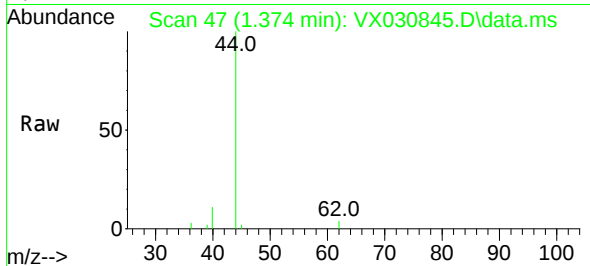




#4  
 Vinyl Chloride  
 Concen: Below Cal  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX030845.D  
 Acq: 27 Aug 2022 04:19

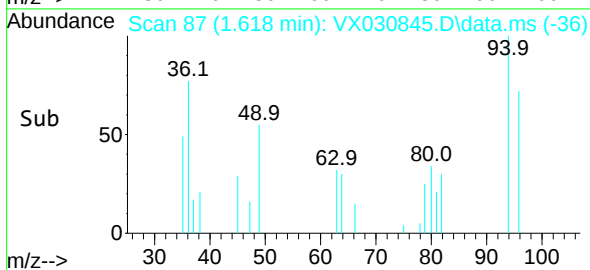
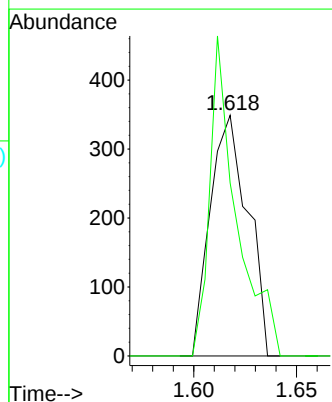
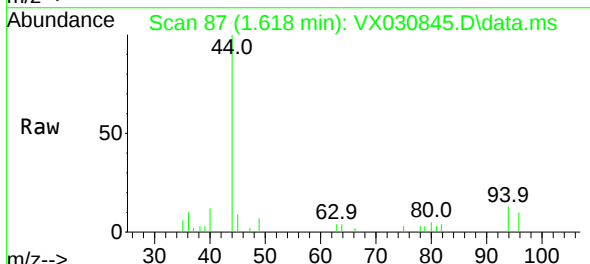
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 RE108D2-20220818

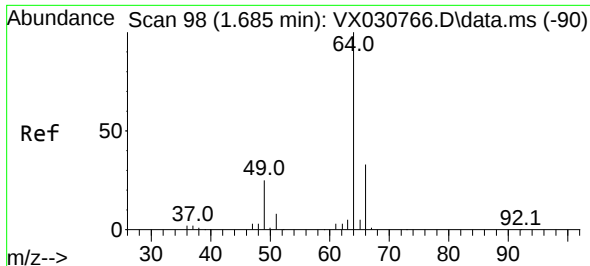
Tgt Ion: 62 Resp: 45  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 25.2 37.8#



#5  
 Bromomethane  
 Concen: 0.417 ug/l  
 RT: 1.618 min Scan# 87  
 Delta R.T. 0.012 min  
 Lab File: VX030845.D  
 Acq: 27 Aug 2022 04:19

Tgt Ion: 94 Resp: 444  
 Ion Ratio Lower Upper  
 94 100  
 96 71.9 76.9 115.3#

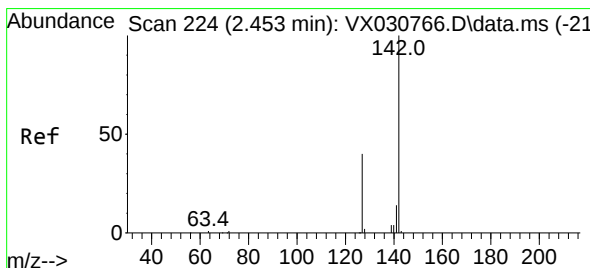
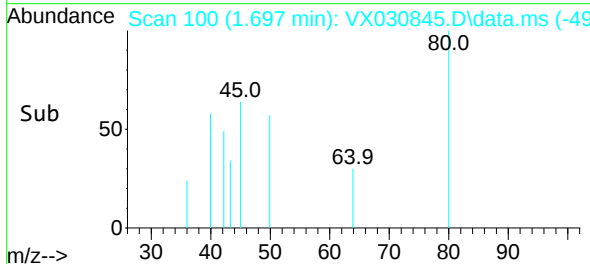
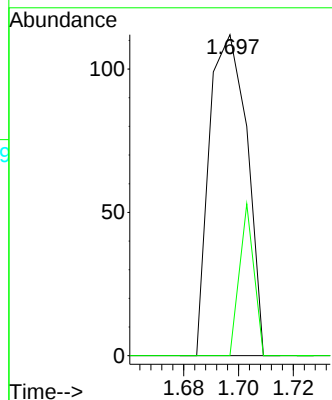
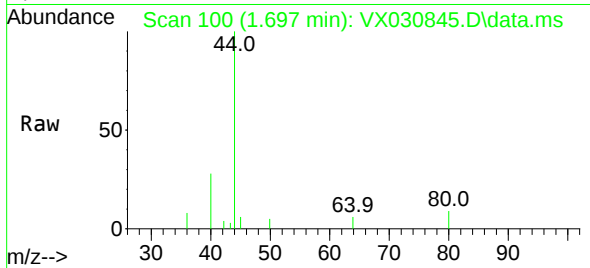




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.697 min Scan# 106  
Delta R.T. 0.012 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

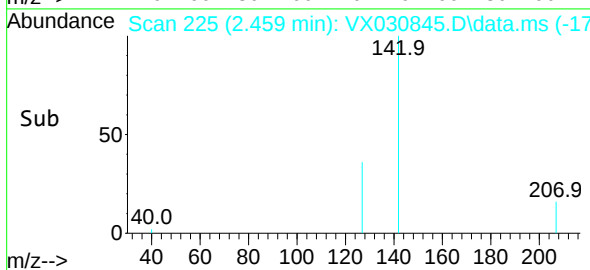
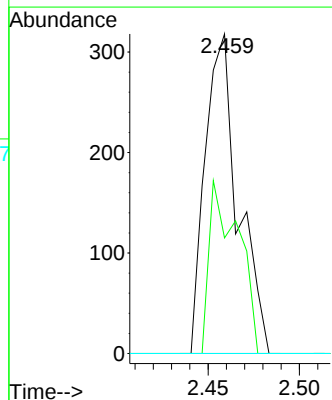
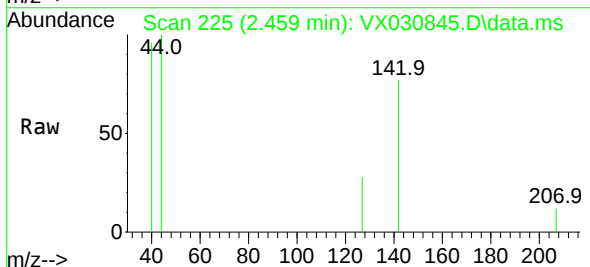
Instrument :  
MSVOA\_X  
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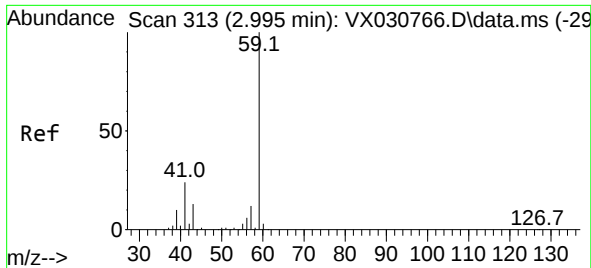
Tgt Ion: 64 Resp: 106  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#



#10  
Methyl Iodide  
Concen: 4.227 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 142 Resp: 399  
Ion Ratio Lower Upper  
142 100  
127 47.9 30.2 45.2#  
141 0.0 11.3 16.9#

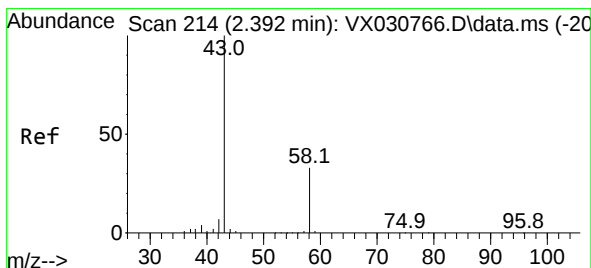
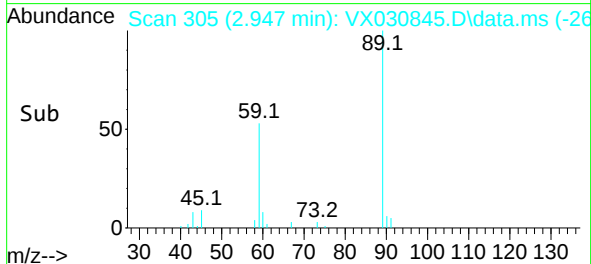
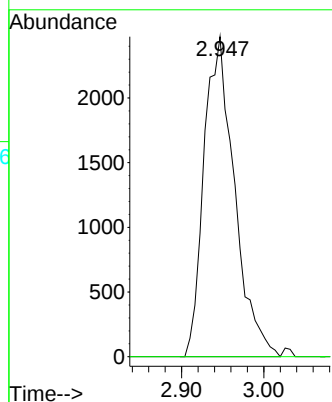
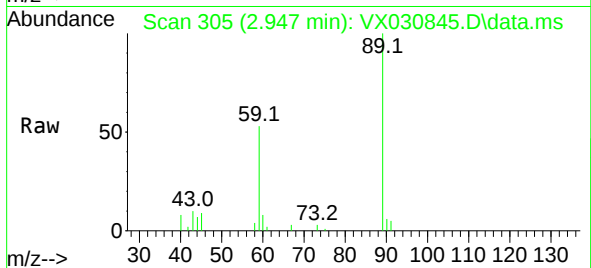




#11  
Tert butyl alcohol  
Concen: 10.939 ug/l  
RT: 2.947 min Scan# 30  
Delta R.T. -0.049 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

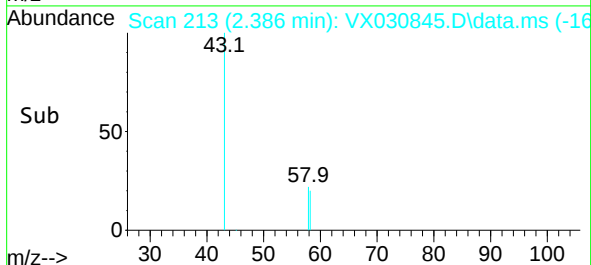
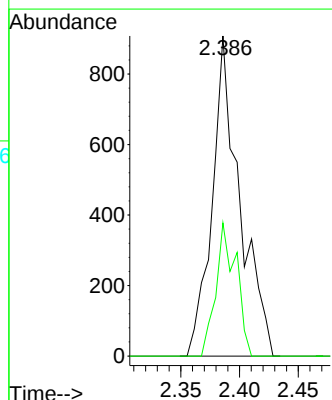
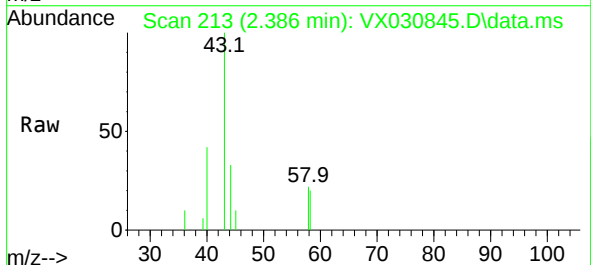
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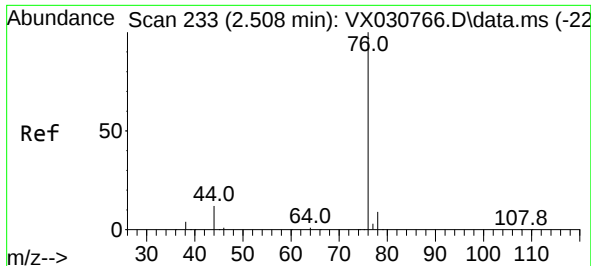
Tgt Ion: 59 Resp: 6388  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



#16  
Acetone  
Concen: 1.195 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 43 Resp: 1486  
Ion Ratio Lower Upper  
43 100  
58 41.6 27.7 41.5#





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.514 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

Instrument :

MSVOA\_X

ClientSampleId :

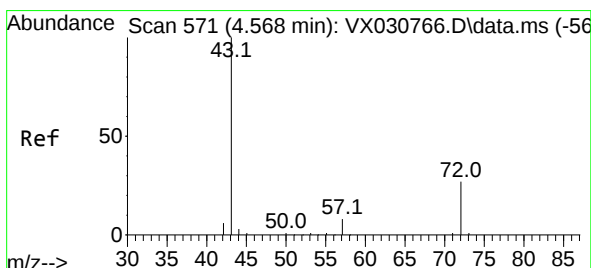
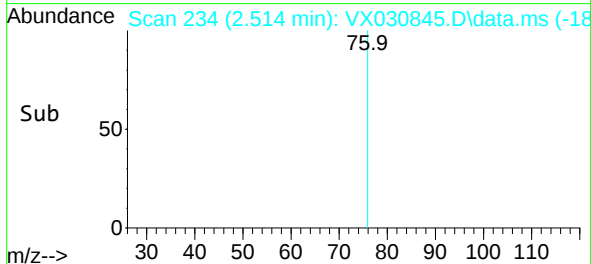
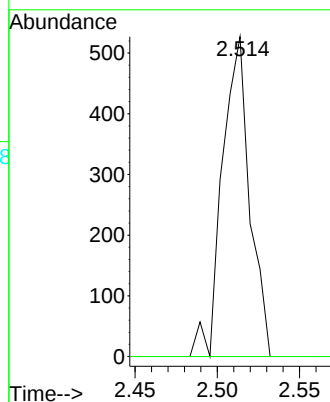
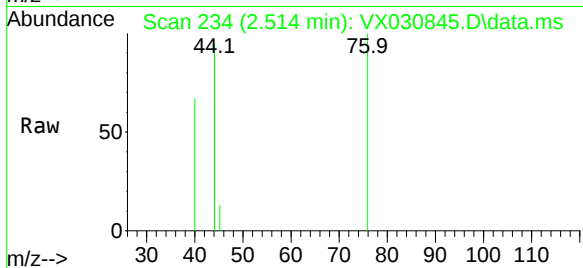
RE108D2-20220818

Tgt Ion: 76 Resp: 611

Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.6#



#25

2-Butanone

Concen: 0.204 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.000 min

Lab File: VX030845.D

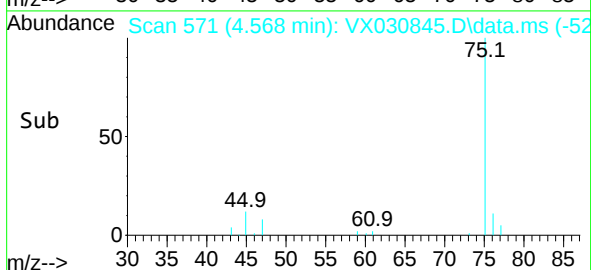
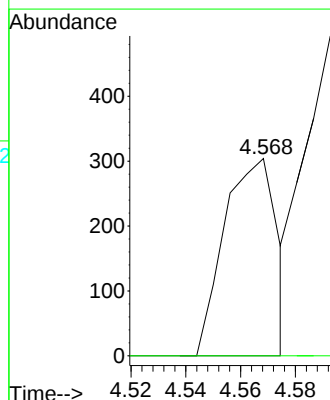
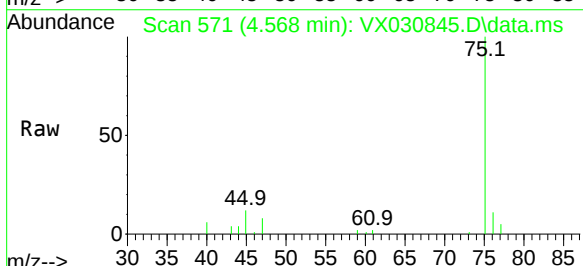
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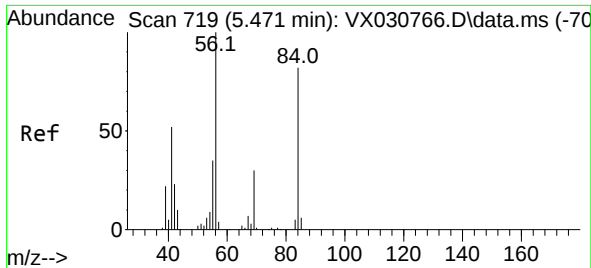
Tgt Ion: 43 Resp: 408

Ion Ratio Lower Upper

43 100

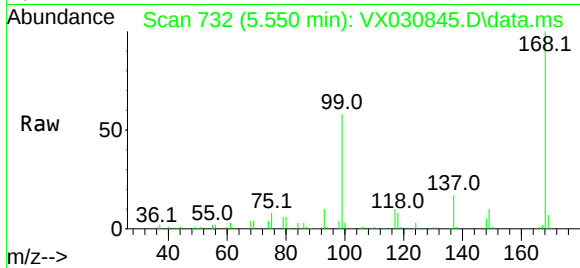
72 0.0 21.7 32.5#



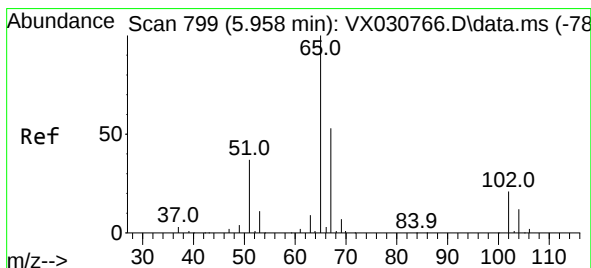
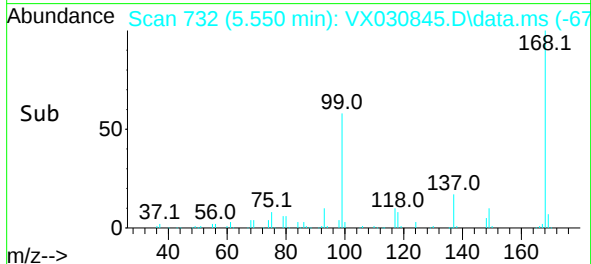
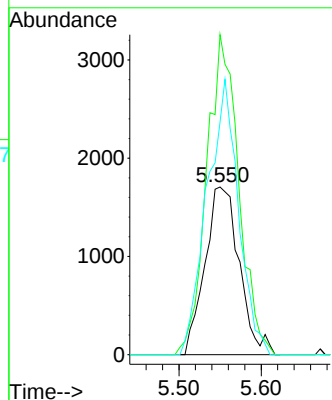


#31  
Cyclohexane  
Concen: 1.437 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

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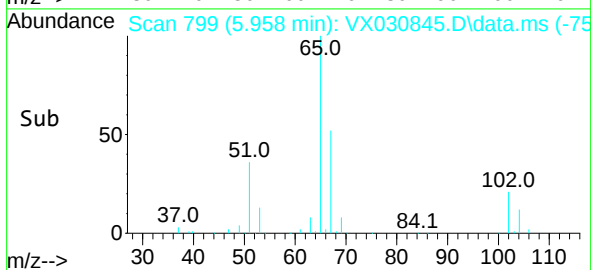
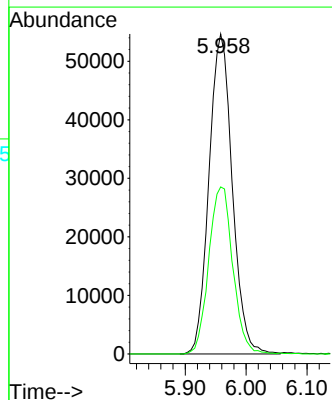
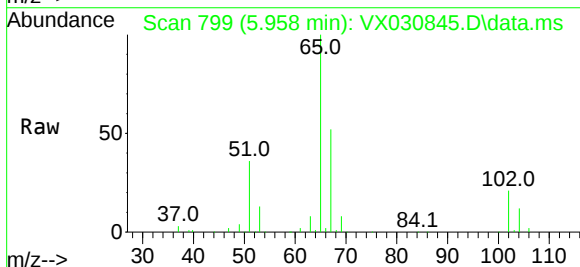


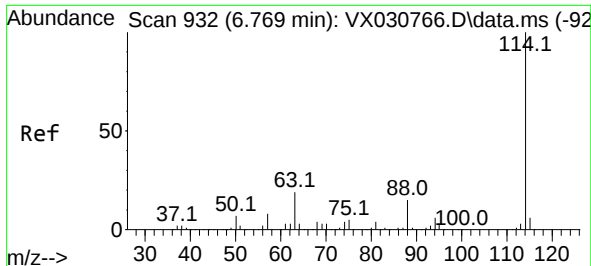
Tgt Ion: 56 Resp: 4943  
Ion Ratio Lower Upper  
56 100  
69 190.9 25.4 38.0#  
84 138.8 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 53.883 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 65 Resp: 144950  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

Instrument :

MSVOA\_X

ClientSampleId :

RE108D2-20220818

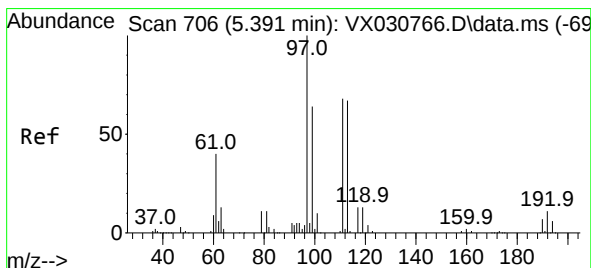
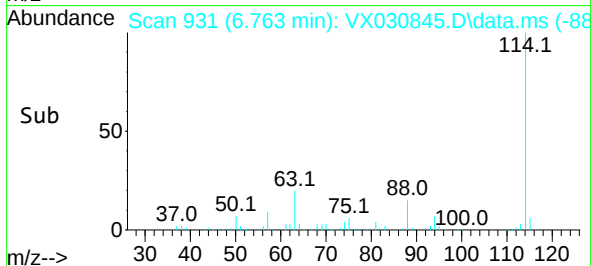
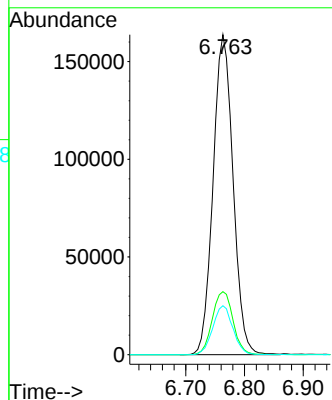
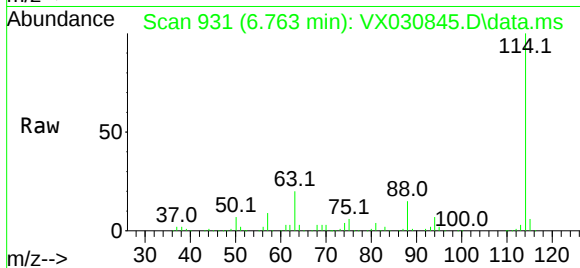
Tgt Ion:114 Resp: 386726

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

88 15.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 51.303 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

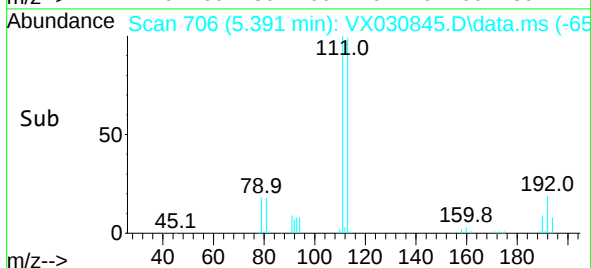
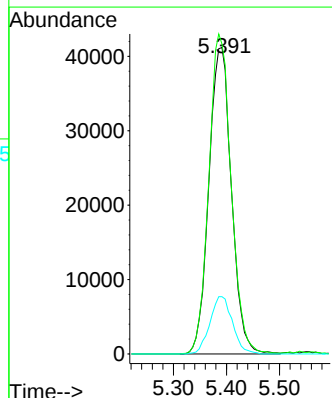
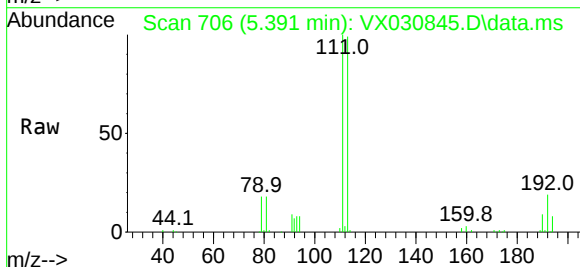
Tgt Ion:113 Resp: 121934

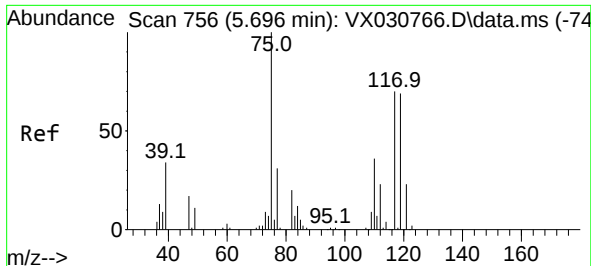
Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

192 18.7 14.8 22.2

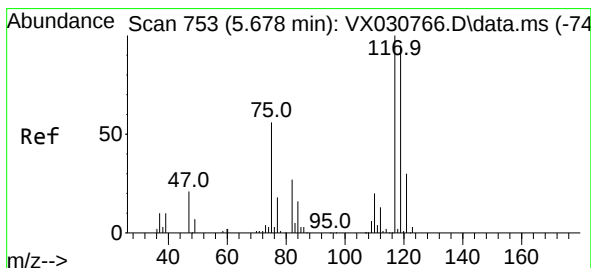
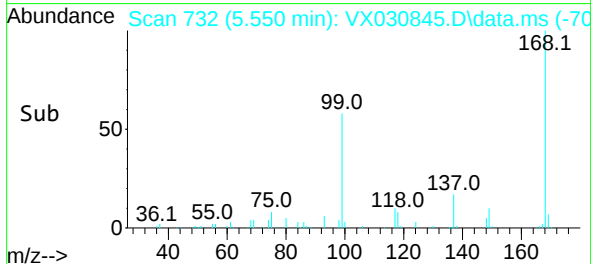
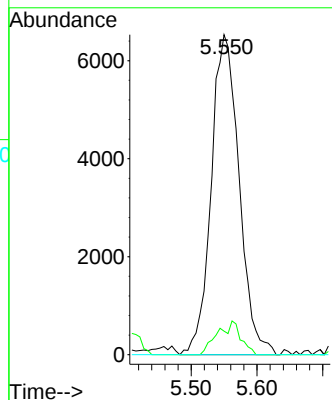
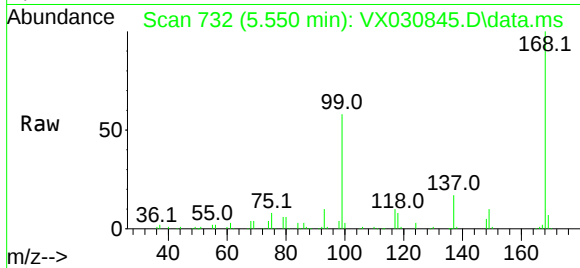




#36  
1,1-Dichloropropene  
Concen: 5.953 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

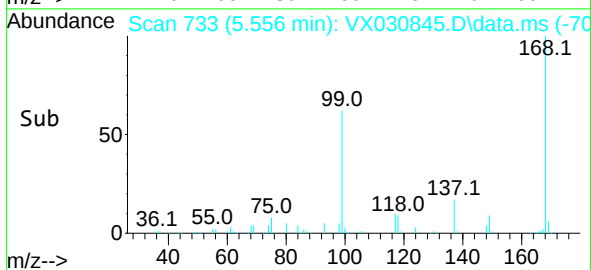
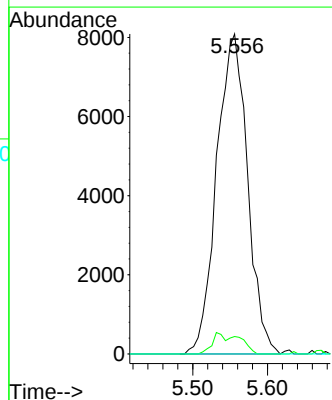
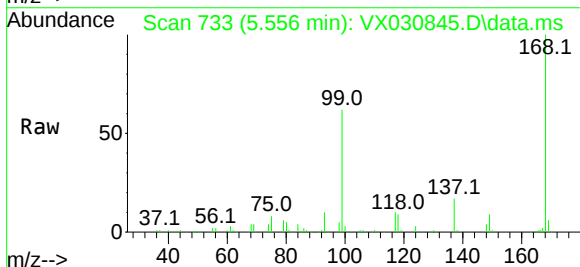
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20220818

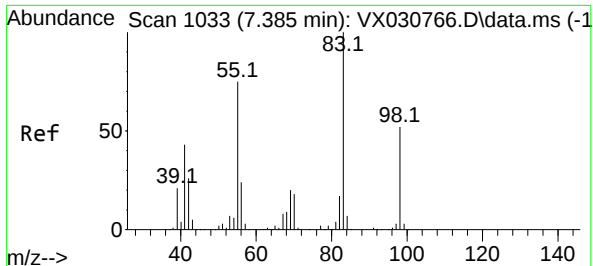
Tgt Ion: 75 Resp: 19268  
Ion Ratio Lower Upper  
75 100  
110 8.8 19.3 57.9#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 6.780 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 117 Resp: 23147  
Ion Ratio Lower Upper  
117 100  
119 5.5 74.1 111.1#  
121 0.0 25.8 38.8#





#39

Methylcyclohexane

Concen: 0.527 ug/l

RT: 7.117 min Scan# 91

Delta R.T. -0.268 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

Instrument :

MSVOA\_X

ClientSampleId :

RE108D2-20220818

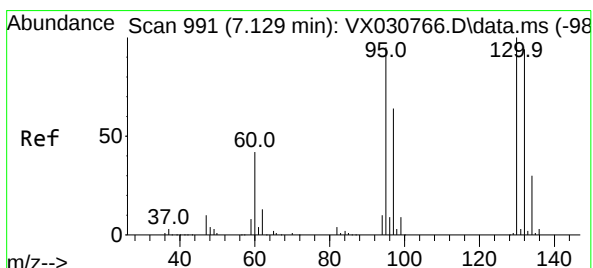
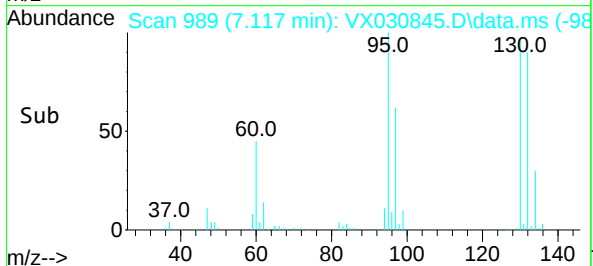
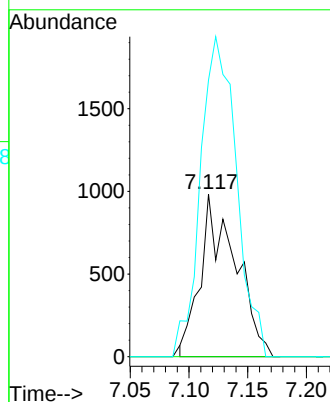
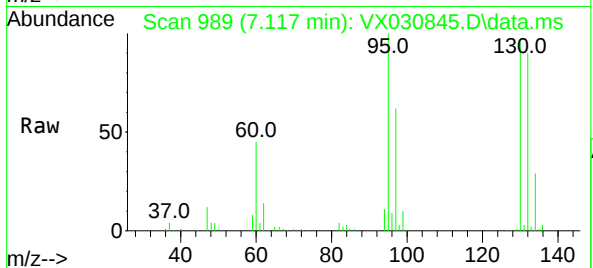
Tgt Ion: 83 Resp: 2040

Ion Ratio Lower Upper

83 100

55 0.0 57.7 86.5#

98 170.1 36.5 54.7#



#44

Trichloroethene

Concen: 57.044 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.006 min

Lab File: VX030845.D

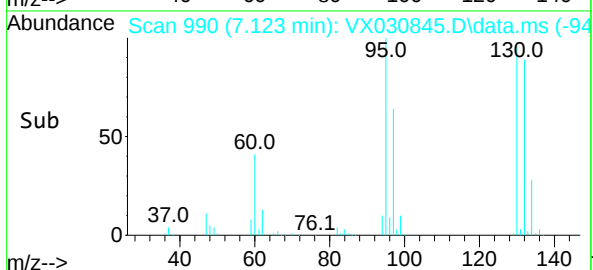
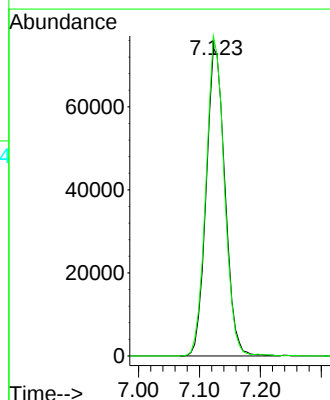
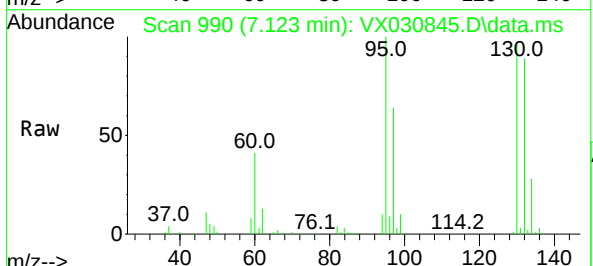
Acq: 27 Aug 2022 04:19

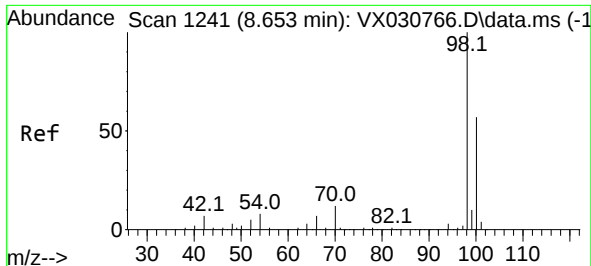
Tgt Ion:130 Resp: 159580

Ion Ratio Lower Upper

130 100

95 104.1 0.0 194.8





#50

Toluene-d8

Concen: 55.103 ug/l

RT: 8.653 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

Instrument :

MSVOA\_X

ClientSampleId :

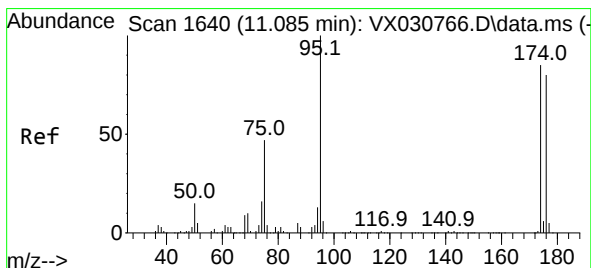
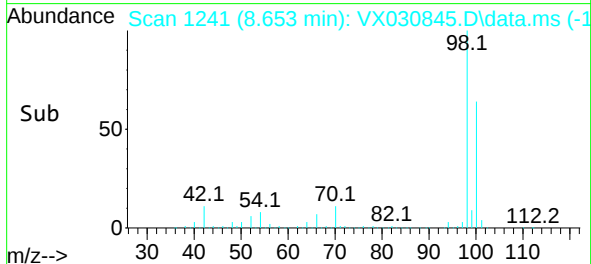
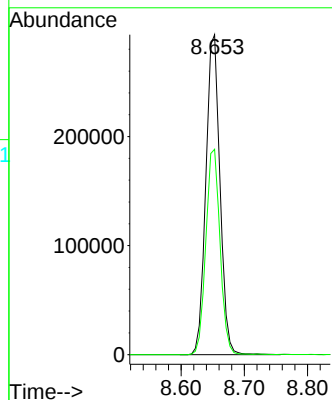
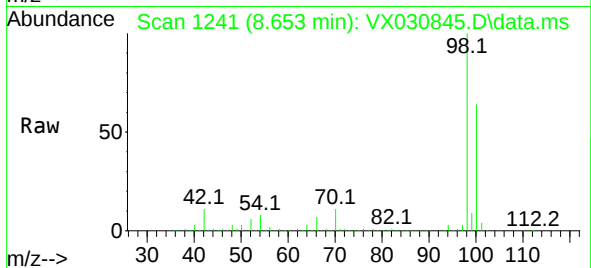
RE108D2-20220818

Tgt Ion: 98 Resp: 456370

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 49.653 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.006 min

Lab File: VX030845.D

Acq: 27 Aug 2022 04:19

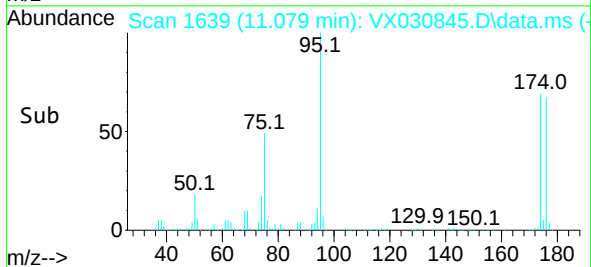
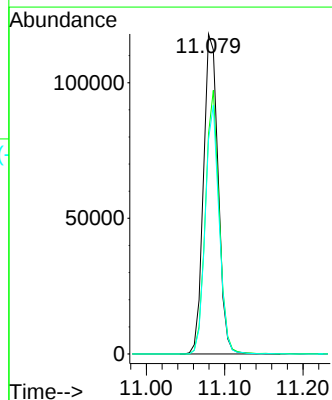
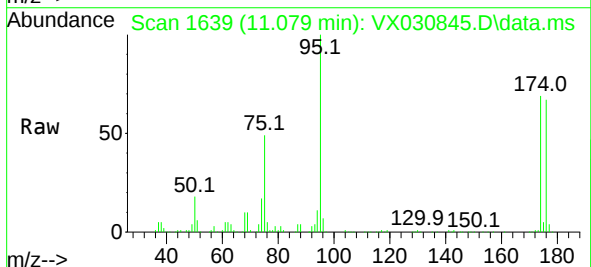
Tgt Ion: 95 Resp: 153104

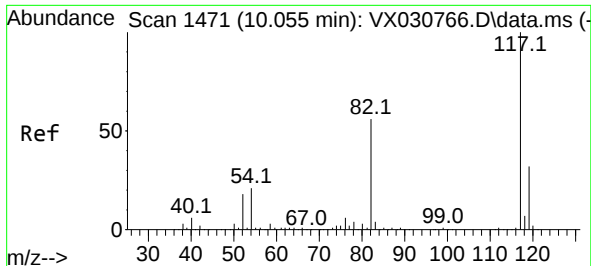
Ion Ratio Lower Upper

95 100

174 77.4 0.0 149.0

176 73.4 0.0 146.0

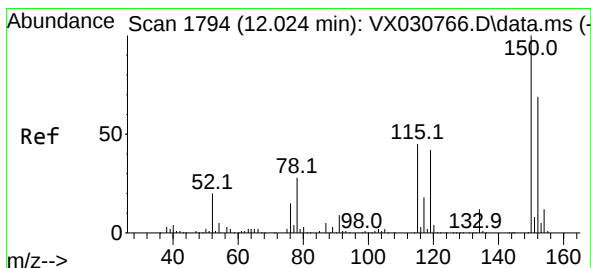
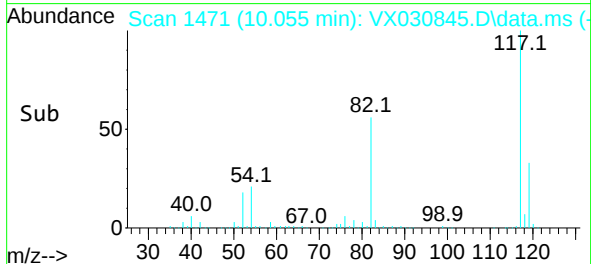
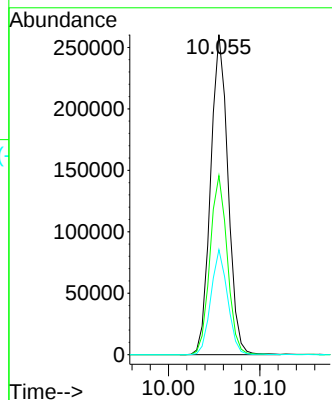
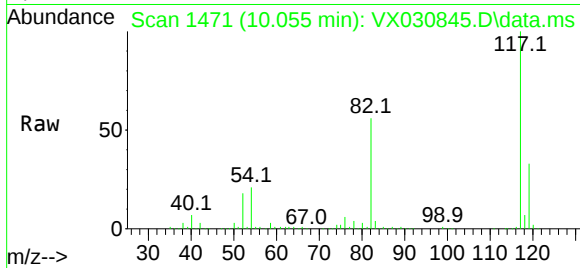




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

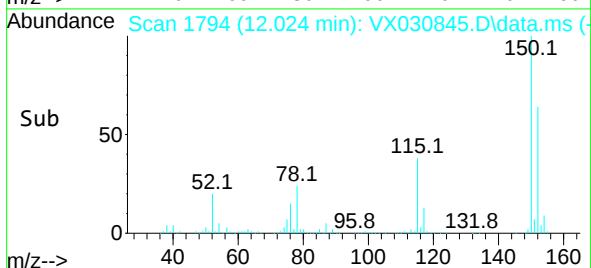
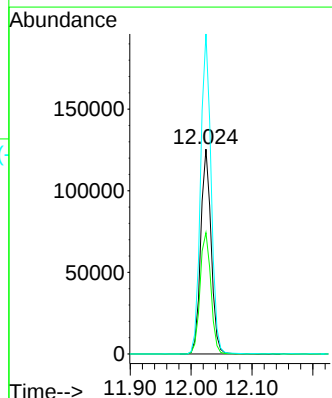
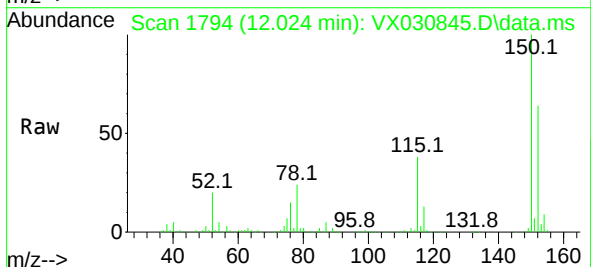
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20220818

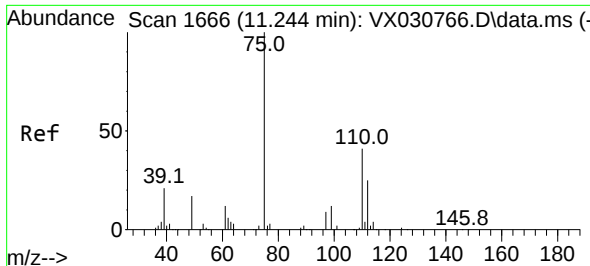
Tgt Ion:117 Resp: 343595  
Ion Ratio Lower Upper  
117 100  
82 55.9 42.7 64.1  
119 32.8 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion:152 Resp: 148662  
Ion Ratio Lower Upper  
152 100  
115 61.4 40.5 121.5  
150 157.3 0.0 347.0

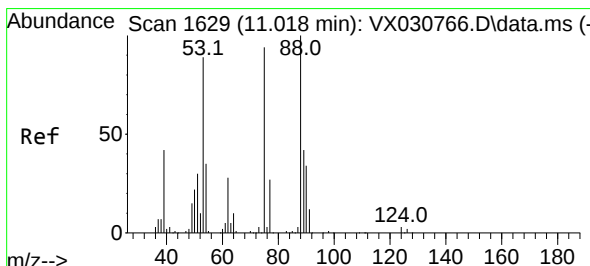
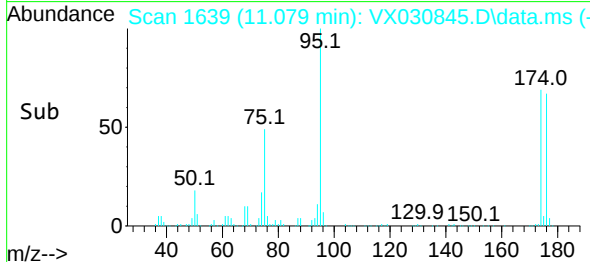
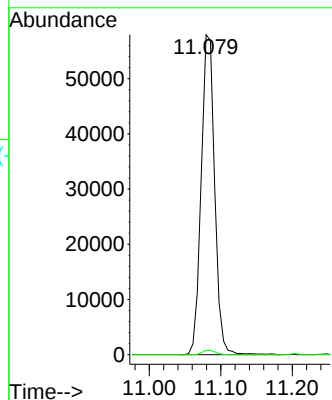
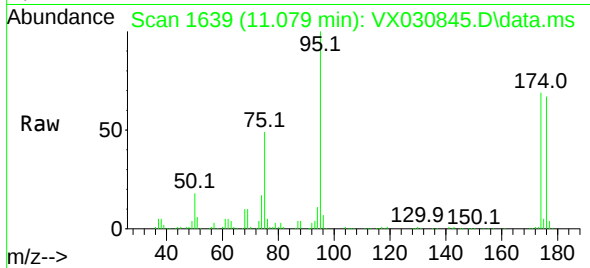




#76  
1,2,3-Trichloropropane  
Concen: 23.309 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20220818

Tgt Ion: 75 Resp: 75917  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.8 59.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.205 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX030845.D  
Acq: 27 Aug 2022 04:19

Tgt Ion: 75 Resp: 75917  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.1 34.8 52.2#

