

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022224\  
 Data File : VW034340.D  
 Acq On : 22 Feb 2024 12:25  
 Operator : SY/MD  
 Sample : P1511-20  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Feb 23 01:16:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR012524WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Feb 23 01:14:23 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 5.539  | 114   | 33405    | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 31997    | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 15467    | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 9221     | 3.564    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 71.200%   |
| 7) Chloroethane-d5            | 1.526  | 69    | 8226     | 3.630    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 72.600%   |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 5032     | 4.033    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 80.600%   |
| 20) 2-Butanone-d5             | 3.812  | 46    | 34659    | 79.767   | ug/L   | -0.02     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 159.540%# |
| 24) Chloroform-d              | 4.253  | 84    | 23153    | 4.925    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.400%   |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 13836    | 6.298    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 126.000%  |
| 32) Benzene-d6                | 4.963  | 84    | 40995    | 4.270    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 85.400%   |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 12864    | 4.794    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.800%   |
| 41) Toluene-d8                | 7.246  | 98    | 37007    | 4.194    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.800%   |
| 43) trans-1,3-Dichloroprop... | 7.571  | 79    | 4633     | 4.572    | ug/L   | 0.01      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 91.400%   |
| 46) 2-Hexanone-d5             | 8.043  | 63    | 26557    | 73.419   | ug/L   | 0.02      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 146.840%# |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 11169    | 6.865    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 137.400%# |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 14462    | 5.141    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 102.800%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 1.214  | 50    | 5020     | 1.503    | ug/L   | 98        |
| 6) Bromomethane               | 1.487  | 94    | 896      | 0.533    | ug/L   | 97        |
| 8) Chloroethane               | 1.481  | 64    | 723      | 0.332    | ug/L # | 52        |
| 13) Acetone                   | 2.127  | 43    | 5696     | 17.280   | ug/L # | 42        |
| 14) Carbon disulfide          | 2.233  | 76    | 3936     | 0.521    | ug/L # | 93        |
| 15) Methyl Acetate            | 2.388  | 43    | 2216     | 2.841    | ug/L   | 93        |
| 16) Methylene chloride        | 2.446  | 84    | 5136     | 2.294    | ug/L   | 98        |
| 17) Methyl tert-butyl Ether   | 2.709  | 73    | 30445    | 6.350    | ug/L   | 98        |
| 18) trans-1,2-Dichloroethene  | 2.693  | 96    | 2727     | 1.147    | ug/L   | 93        |
| 22) cis-1,2-Dichloroethene    | 3.818  | 96    | 18525    | 6.869    | ug/L   | 98        |
| 34) Trichloroethene           | 5.831  | 95    | 58612    | 21.103   | ug/L   | 97        |
| 35) Methylcyclohexane         | 5.989  | 83    | 3378     | 0.775    | ug/L # | 25        |
| 37) 1,2-Dichloropropane       | 5.989  | 63    | 1663     | 0.715    | ug/L # | 87        |
| 42) Toluene                   | 7.330  | 91    | 5381     | 0.525    | ug/L   | 99        |
| 48) 2-Hexanone                | 8.043  | 43    | 3384     | 4.313    | ug/L # | 60        |
| 52) Ethylbenzene              | 8.963  | 91    | 999      | 0.085    | ug/L   | 95        |
| 53) m,p-Xylene                | 9.088  | 106   | 865      | 0.194    | ug/L   | 98        |
| 54) o-Xylene                  | 9.484  | 106   | 648      | 0.151    | ug/L # | 50        |
| 61) 1,2,3-Trichloropropane    | 11.188 | 75    | 1852     | 1.742    | ug/L # | 60        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV022224\  
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Sample : P1511-20  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Feb 23 01:16:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR012524WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Feb 23 01:14:23 2024  
Response via : Initial Calibration

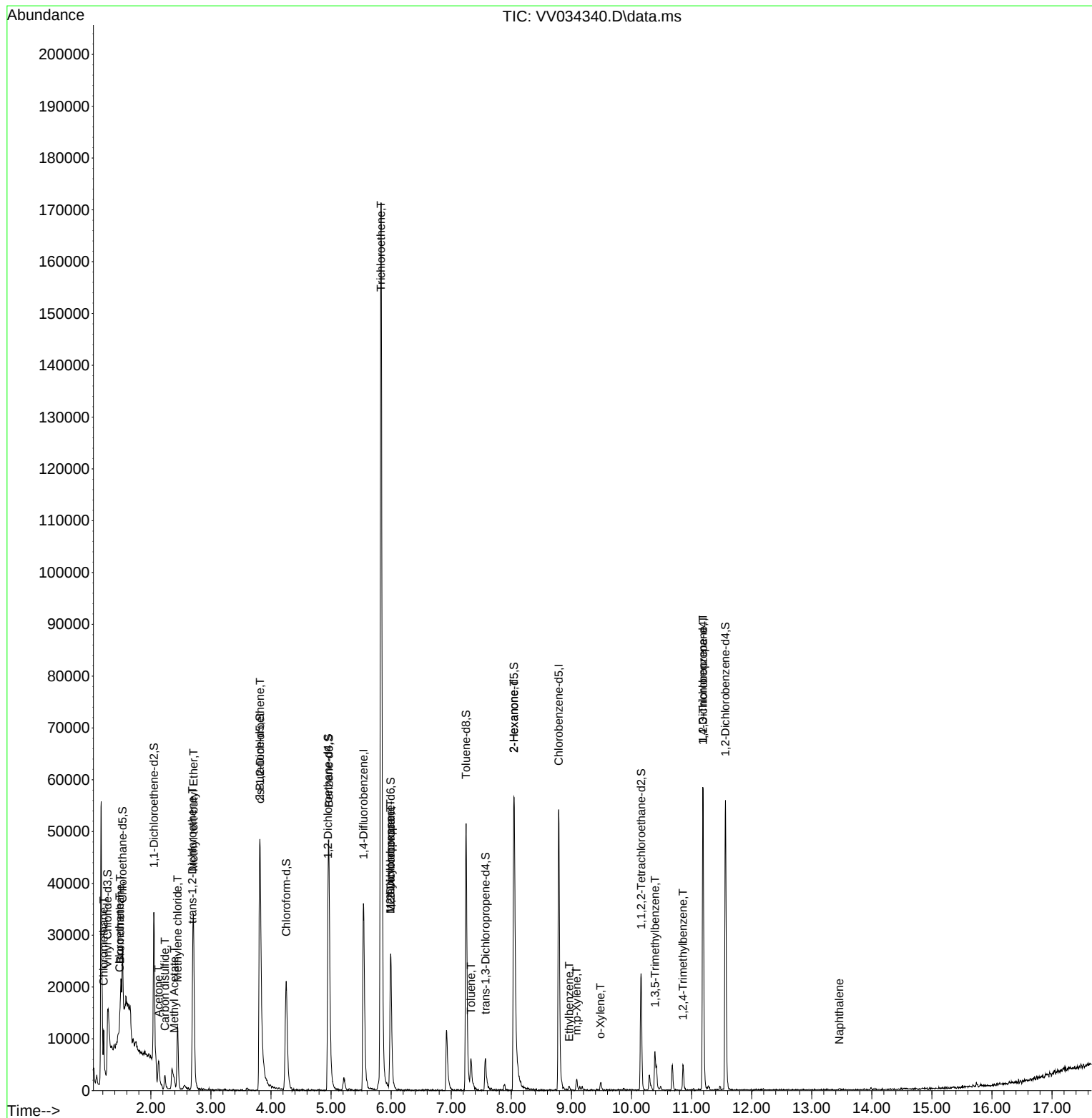
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 62) 1,3,5-Trimethylbenzene | 10.391 | 105  | 5111     | 0.528 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene | 10.857 | 105  | 3504     | 0.373 | ug/L   | 94       |
| 71) Naphthalene            | 13.458 | 128  | 397      | 0.101 | ug/L # | 69       |

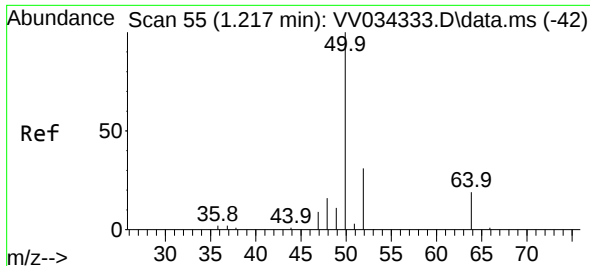
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Feb 23 01:14:23 2024  
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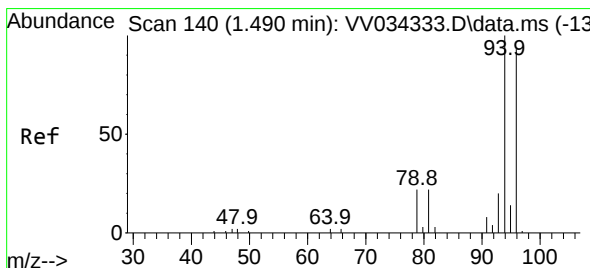
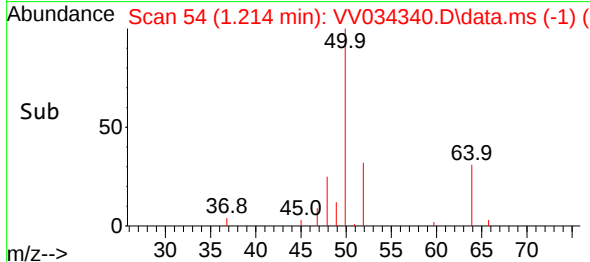
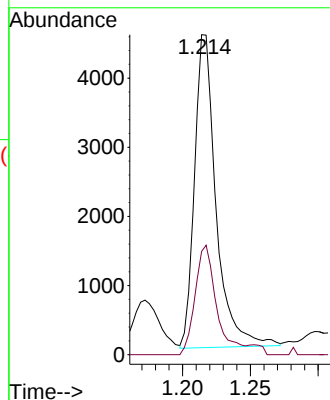
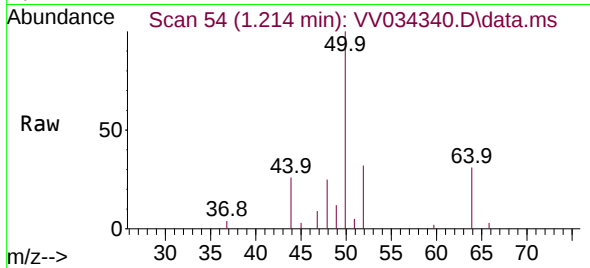




#3  
Chloromethane  
Concen: 1.503 ug/L  
RT: 1.214 min Scan# 54  
Delta R.T. -0.003 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

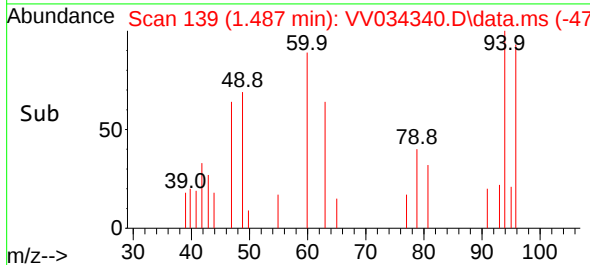
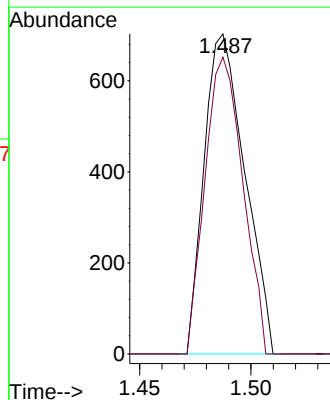
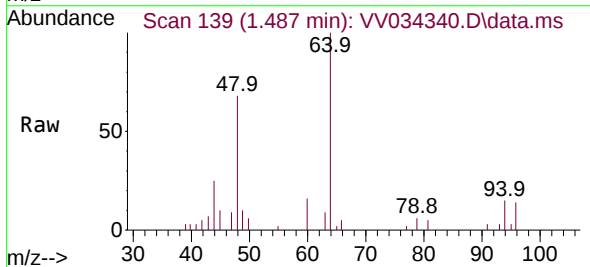
Instrument :  
MSVOA\_V  
ClientSampleId :

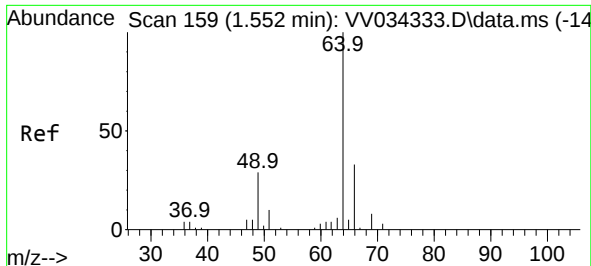
Tgt Ion: 50 Resp: 5020  
Ion Ratio Lower Upper  
50 100  
52 32.3 23.4 43.4



#6  
Bromomethane  
Concen: 0.533 ug/L  
RT: 1.487 min Scan# 139  
Delta R.T. -0.003 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Tgt Ion: 94 Resp: 896  
Ion Ratio Lower Upper  
94 100  
96 92.7 66.6 123.8





#8

Chloroethane

Concen: 0.332 ug/L

RT: 1.481 min Scan# 11

Delta R.T. -0.071 min

Lab File: VV034340.D

Acq: 22 Feb 2024 12:25

Instrument :

MSVOA\_V

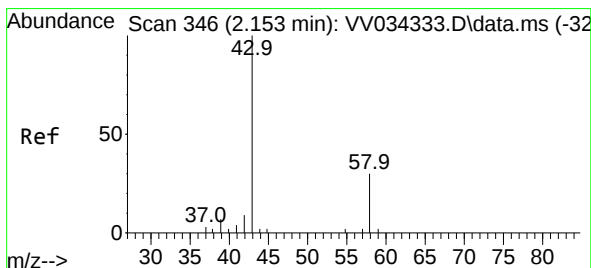
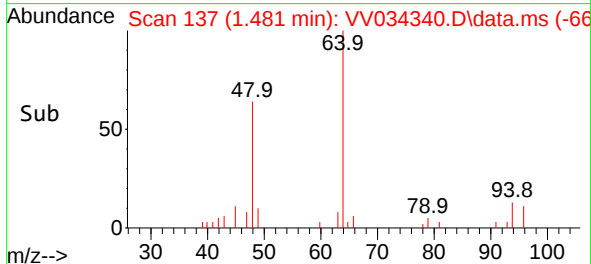
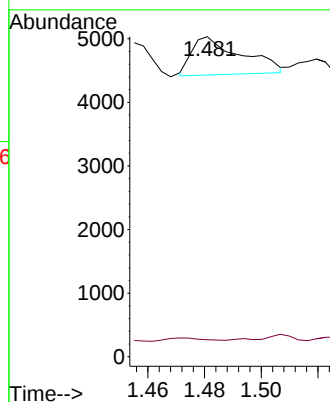
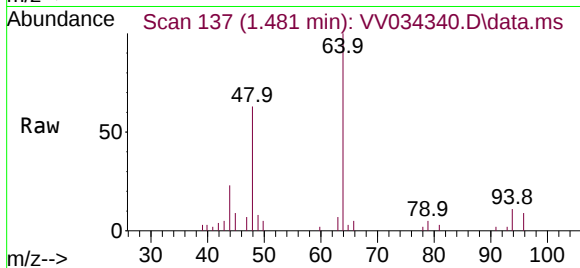
ClientSampleId :

Tgt Ion: 64 Resp: 723

Ion Ratio Lower Upper

64 100

66 5.1 22.0 41.0#



#13

Acetone

Concen: 17.280 ug/L

RT: 2.127 min Scan# 338

Delta R.T. -0.026 min

Lab File: VV034340.D

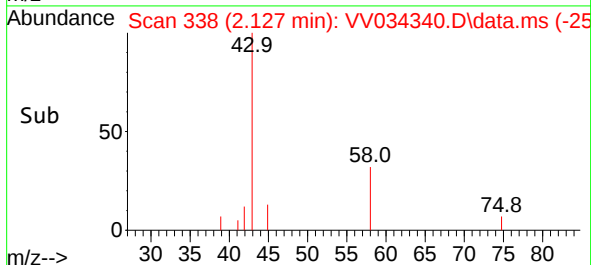
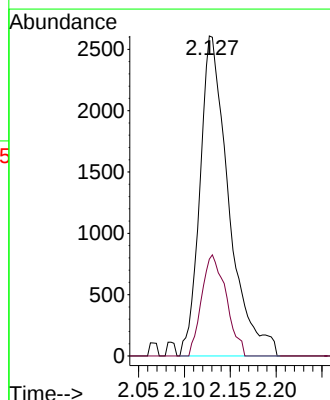
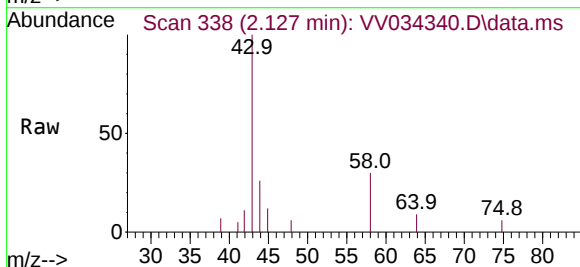
Acq: 22 Feb 2024 12:25

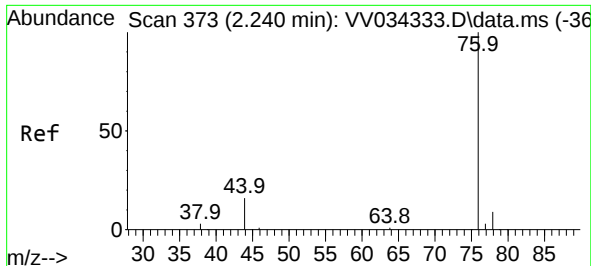
Tgt Ion: 43 Resp: 5696

Ion Ratio Lower Upper

43 100

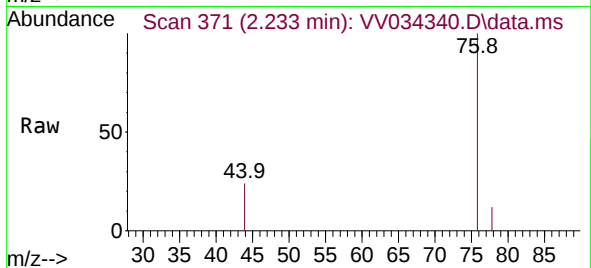
58 27.0 0.0 13.8#



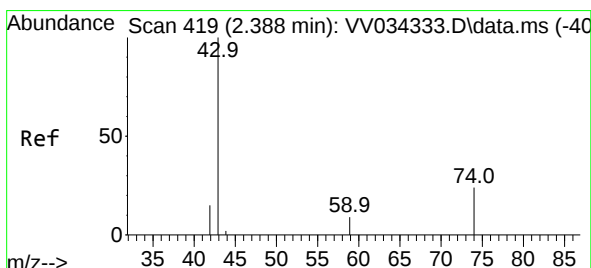
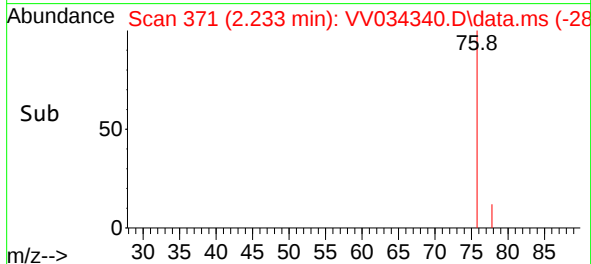
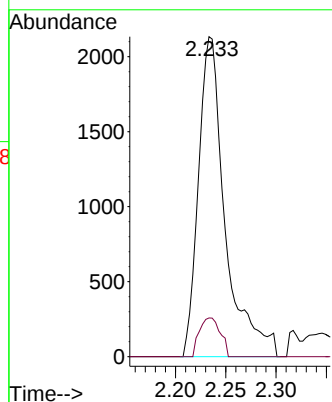


#14  
Carbon disulfide  
Concen: 0.521 ug/L  
RT: 2.233 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Instrument :  
MSVOA\_V  
ClientSampleId :

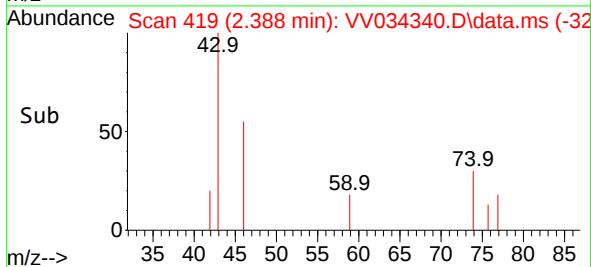
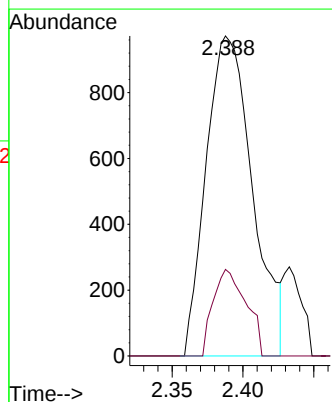
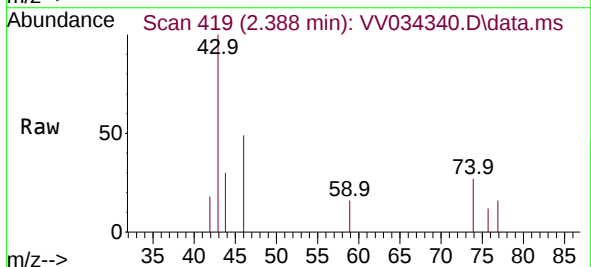


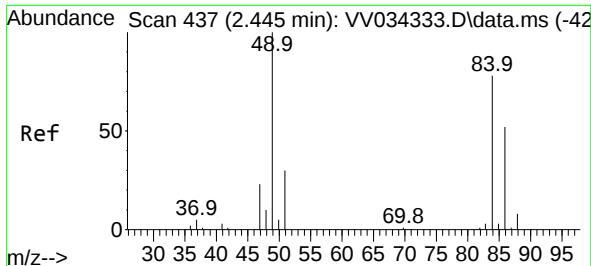
Tgt Ion: 76 Resp: 3936  
Ion Ratio Lower Upper  
76 100  
78 12.1 7.5 11.3#



#15  
Methyl Acetate  
Concen: 2.841 ug/L  
RT: 2.388 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

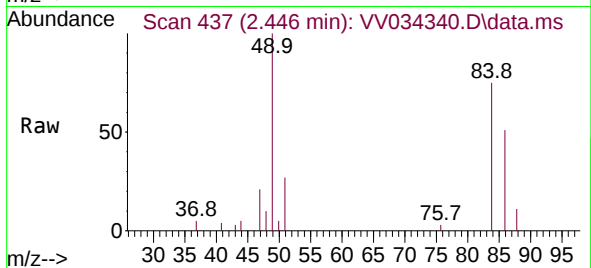
Tgt Ion: 43 Resp: 2216  
Ion Ratio Lower Upper  
43 100  
74 19.2 18.2 27.4





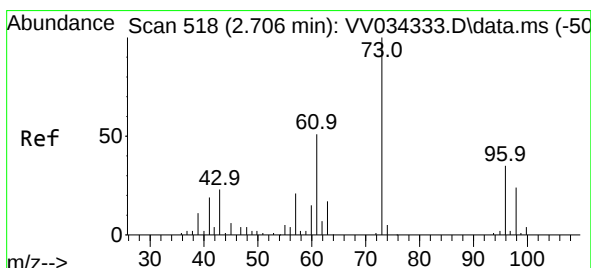
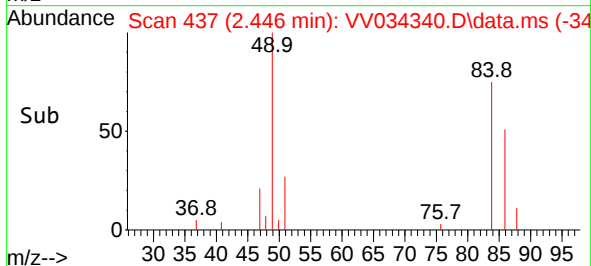
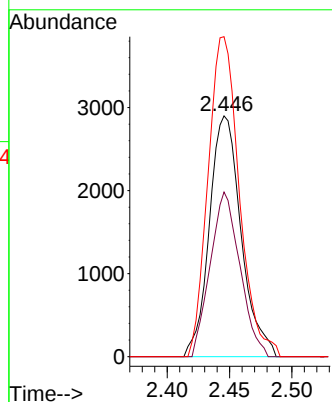
#16  
Methylene chloride  
Concen: 2.294 ug/L  
RT: 2.446 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 84 Resp: 5136

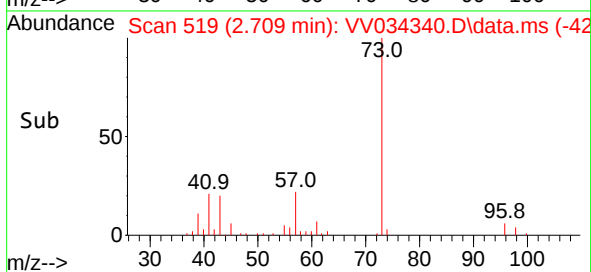
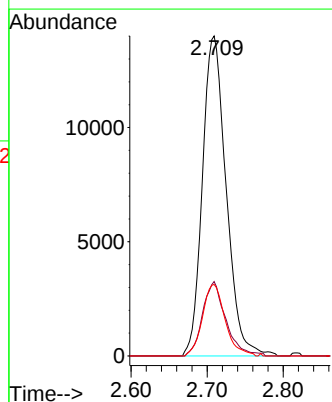
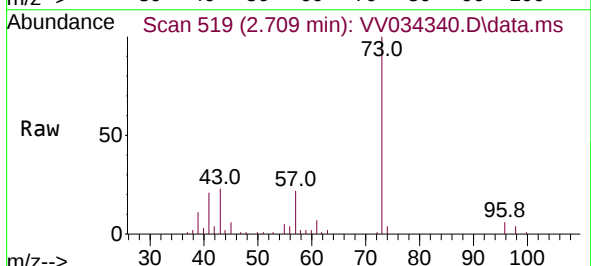
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 86  | 68.4  | 44.7  | 83.1  |
| 49  | 132.9 | 93.7  | 173.9 |

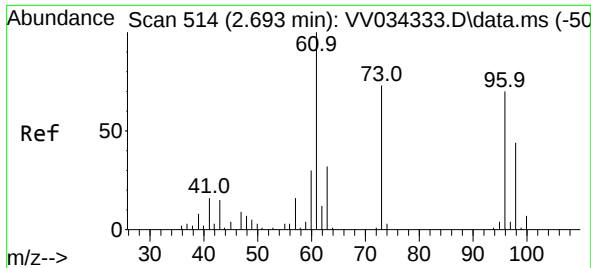


#17  
Methyl tert-butyl Ether  
Concen: 6.350 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. 0.003 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Tgt Ion: 73 Resp: 30445

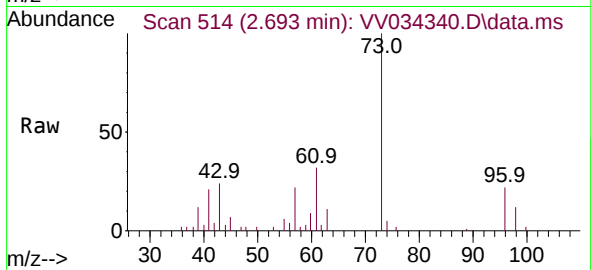
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 22.7  | 17.7  | 26.5  |
| 57  | 21.3  | 17.9  | 26.9  |



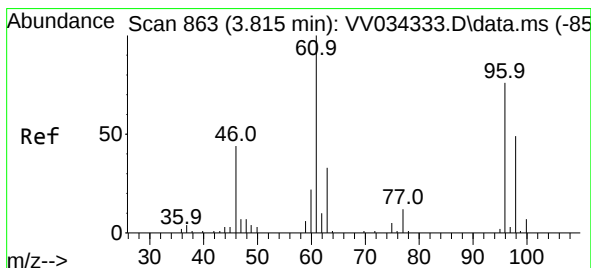
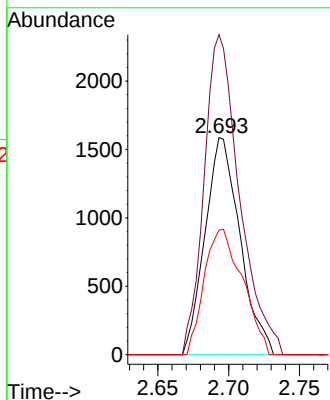
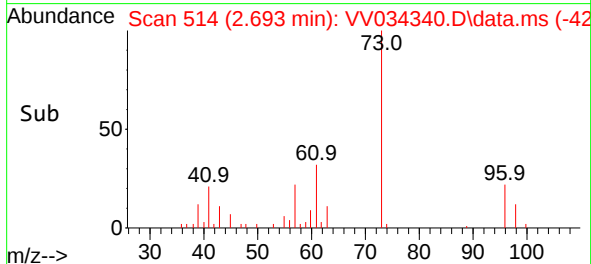


#18  
trans-1,2-Dichloroethene  
Concen: 1.147 ug/L  
RT: 2.693 min Scan# 514  
Delta R.T. 0.000 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Instrument :  
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ClientSampleId :

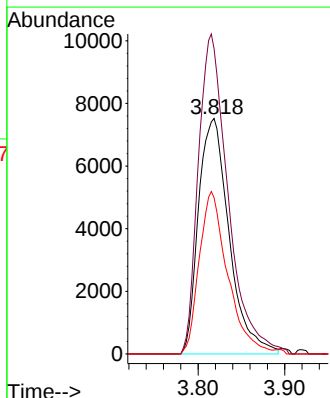
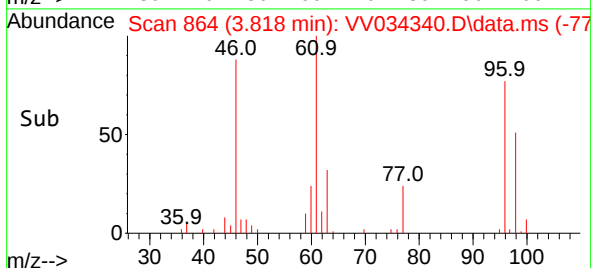
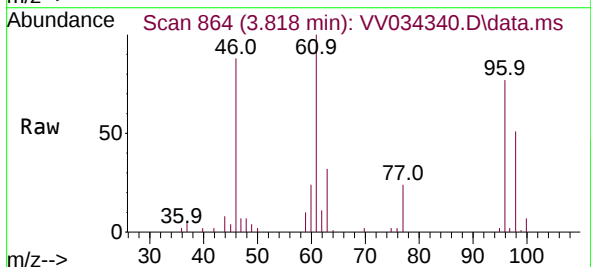


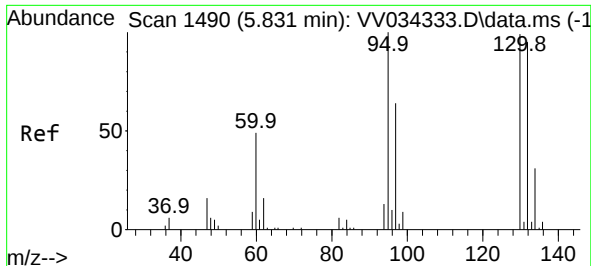
Tgt Ion: 96 Resp: 2727  
Ion Ratio Lower Upper  
96 100  
61 147.4 97.6 181.4  
98 57.3 44.4 82.5



#22  
cis-1,2-Dichloroethene  
Concen: 6.869 ug/L  
RT: 3.818 min Scan# 864  
Delta R.T. 0.003 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

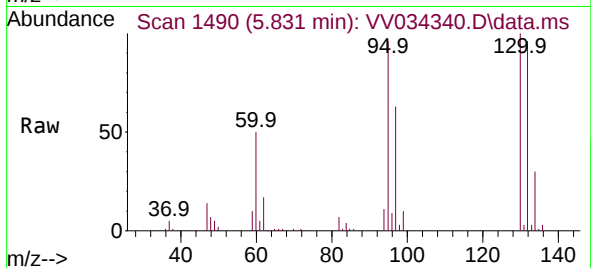
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Ion Ratio Lower Upper  
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61 129.7 90.3 167.7  
98 66.3 43.2 80.2



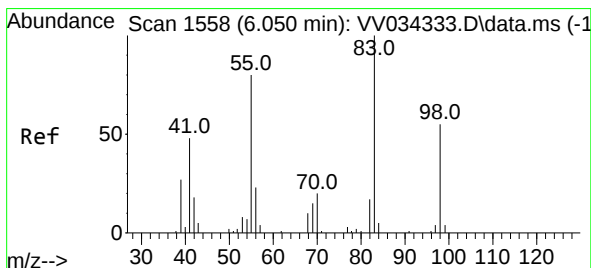
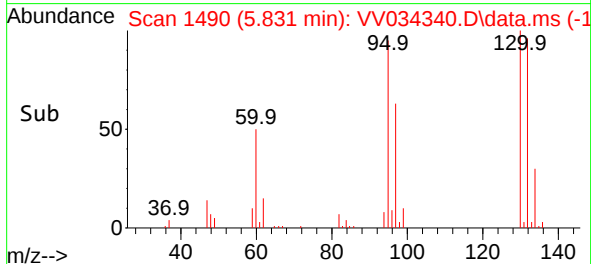
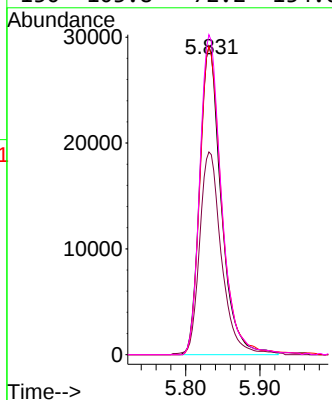


#34  
Trichloroethene  
Concen: 21.103 ug/L  
RT: 5.831 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Instrument :  
MSVOA\_V  
ClientSampleId :

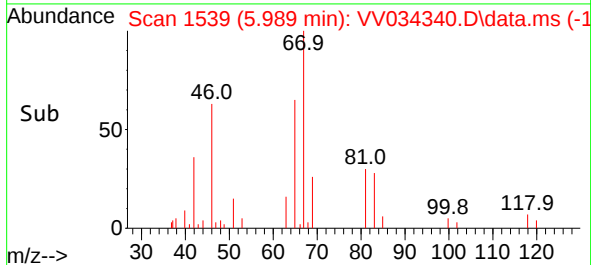
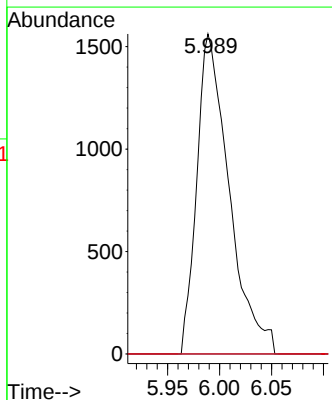
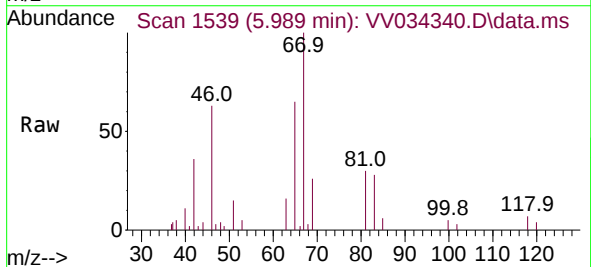


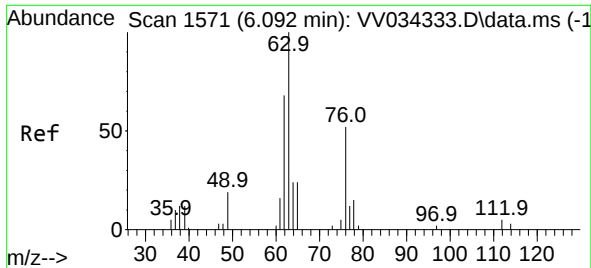
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 58612 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 65.7  | 45.1  | 83.7  |
| 132      | 99.9  | 66.0  | 122.6 |
| 130      | 103.8 | 72.2  | 134.0 |



#35  
Methylcyclohexane  
Concen: 0.775 ug/L  
RT: 5.989 min Scan# 1539  
Delta R.T. -0.061 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3378  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 3.1   | 63.5  | 95.3# |
| 98       | 11.4  | 39.0  | 58.4# |





#37

1,2-Dichloropropane

Concen: 0.715 ug/L

RT: 5.989 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV034340.D

Acq: 22 Feb 2024 12:25

Instrument :

MSVOA\_V

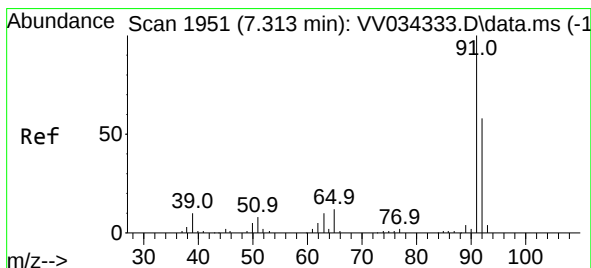
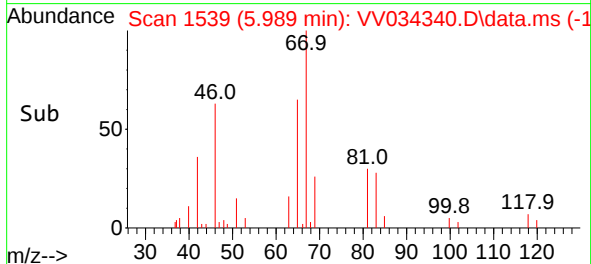
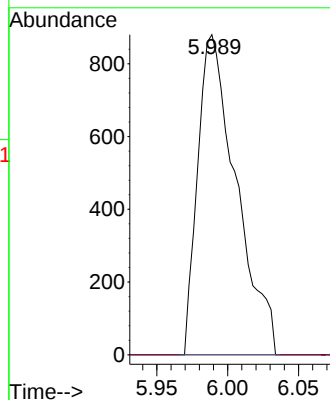
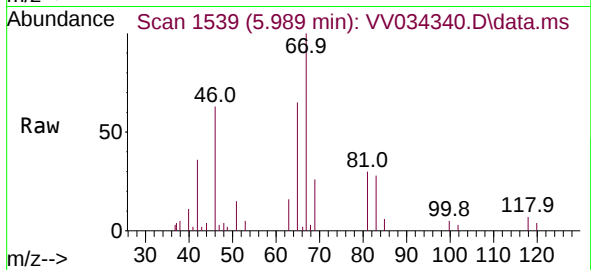
ClientSampleId :

Tgt Ion: 63 Resp: 1663

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



#42

Toluene

Concen: 0.525 ug/L

RT: 7.330 min Scan# 1956

Delta R.T. 0.016 min

Lab File: VV034340.D

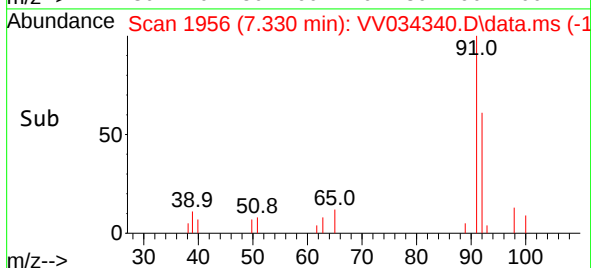
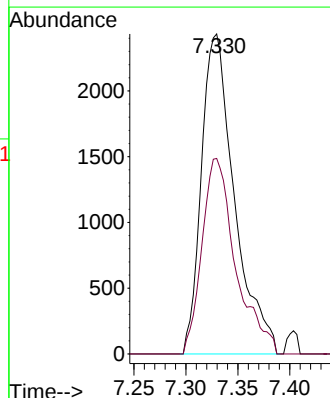
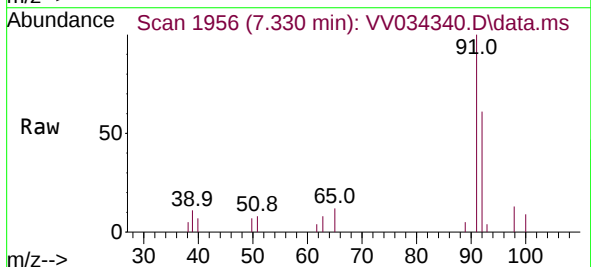
Acq: 22 Feb 2024 12:25

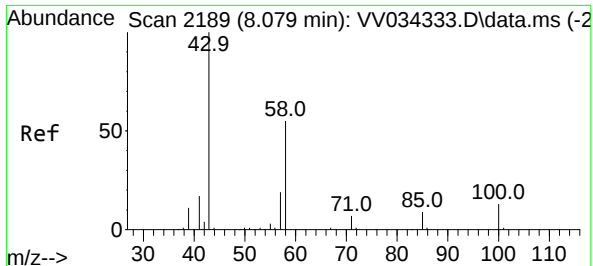
Tgt Ion: 91 Resp: 5381

Ion Ratio Lower Upper

91 100

92 61.1 42.1 78.3





#48

2-Hexanone

Concen: 4.313 ug/L

RT: 8.043 min Scan# 2189

Delta R.T. -0.035 min

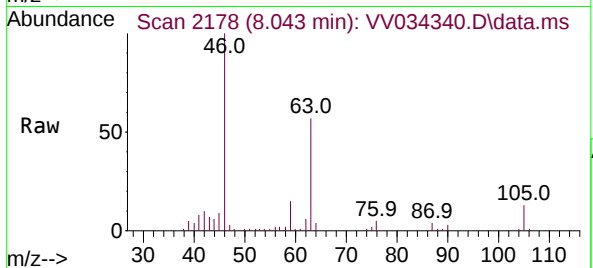
Lab File: VV034340.D

Acq: 22 Feb 2024 12:25

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion: 43 Resp: 3384

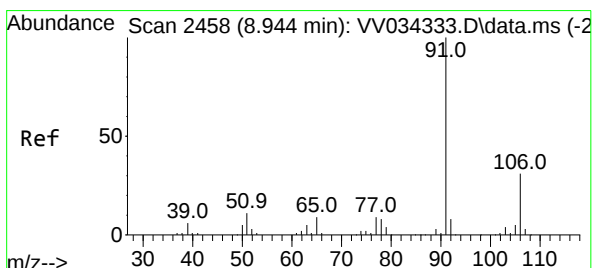
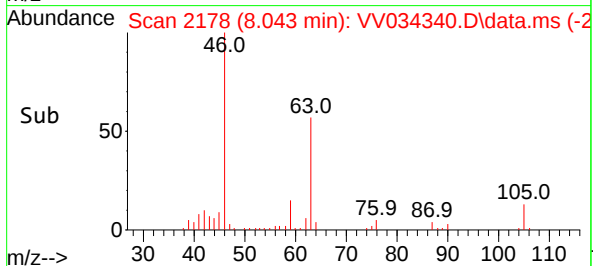
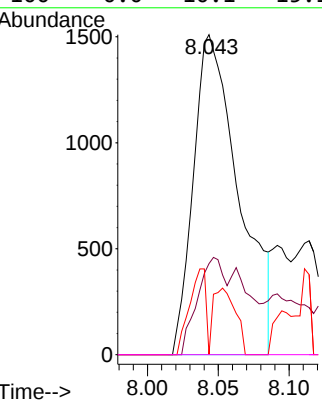
Ion Ratio Lower Upper

43 100

58 18.5 42.6 64.0#

57 10.1 15.5 23.3#

100 0.0 10.1 15.1#



#52

Ethylbenzene

Concen: 0.085 ug/L

RT: 8.963 min Scan# 2464

Delta R.T. 0.019 min

Lab File: VV034340.D

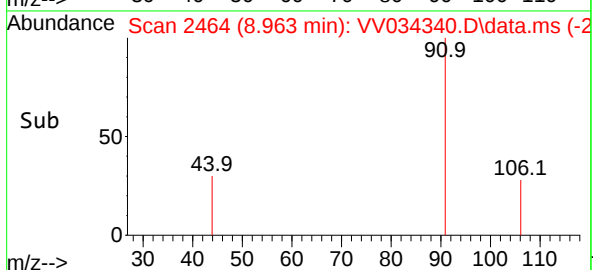
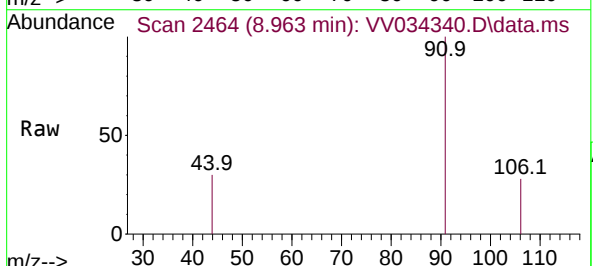
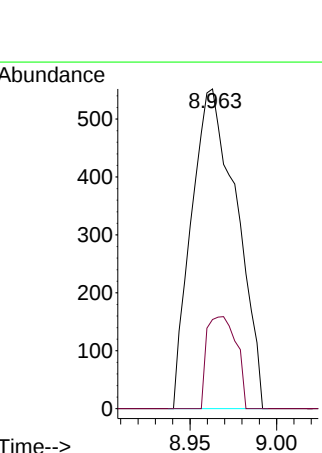
Acq: 22 Feb 2024 12:25

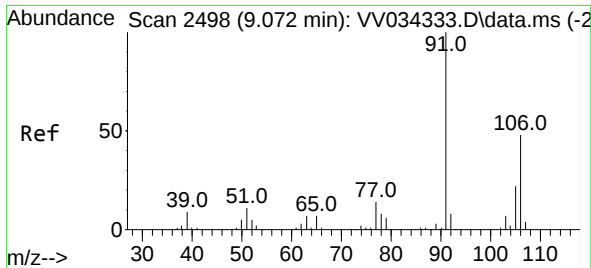
Tgt Ion: 91 Resp: 999

Ion Ratio Lower Upper

91 100

106 27.9 21.4 39.8

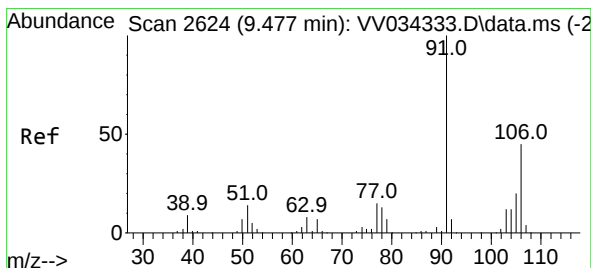
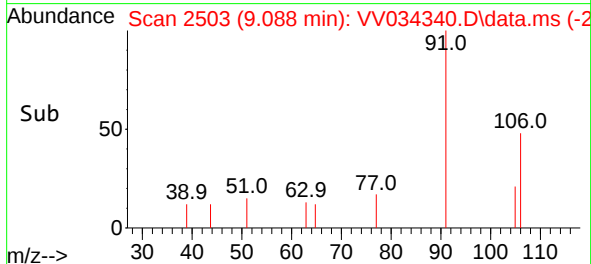
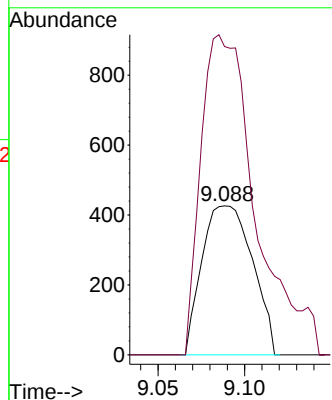
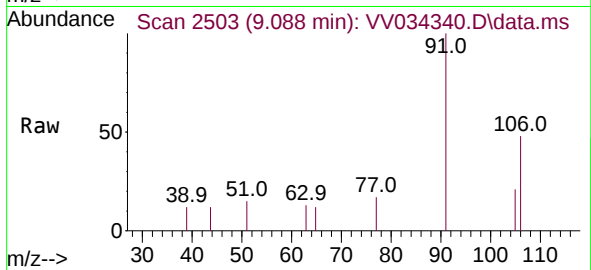




#53  
m,p-Xylene  
Concen: 0.194 ug/L  
RT: 9.088 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

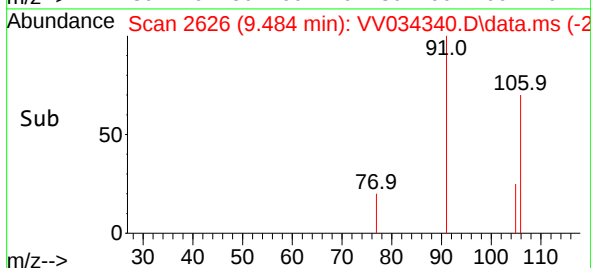
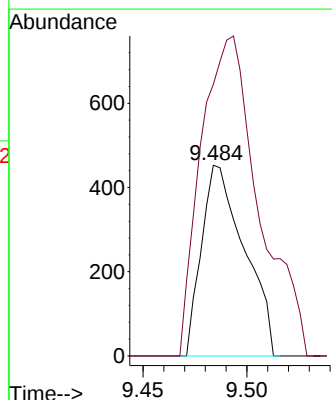
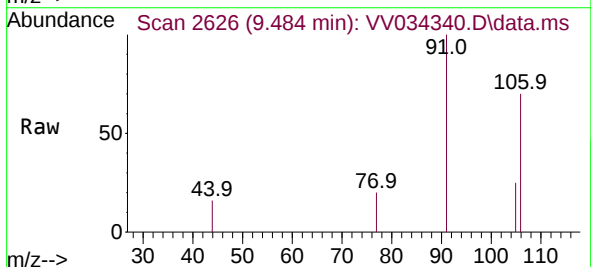
Instrument :  
MSVOA\_V  
ClientSampleId :

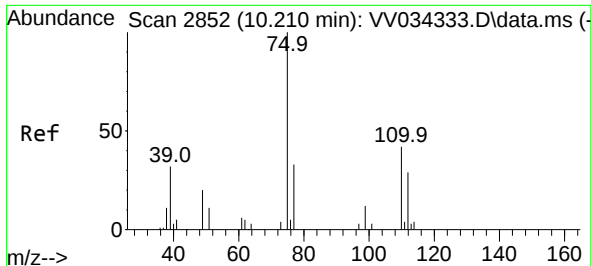
Tgt Ion:106 Resp: 865  
Ion Ratio Lower Upper  
106 100  
91 207.0 147.5 273.9



#54  
o-Xylene  
Concen: 0.151 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. 0.007 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

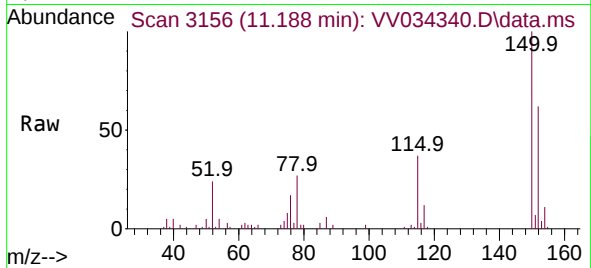
Tgt Ion:106 Resp: 648  
Ion Ratio Lower Upper  
106 100  
91 142.4 156.2 290.0#



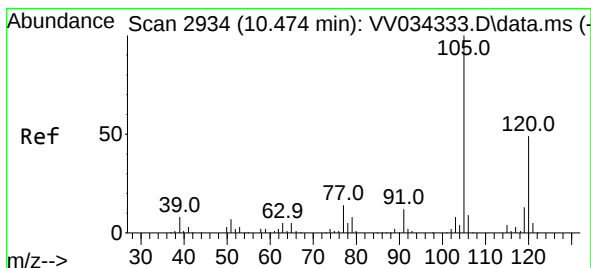
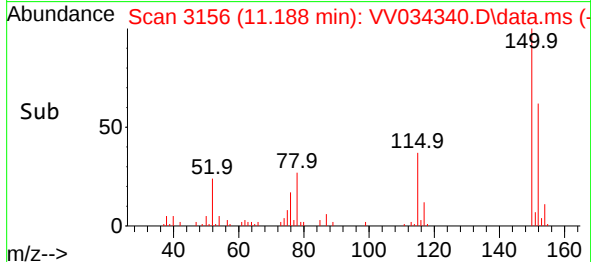
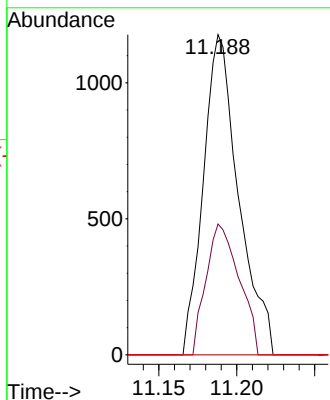


#61  
 1,2,3-Trichloropropane  
 Concen: 1.742 ug/L  
 RT: 11.188 min Scan# 3156  
 Delta R.T. 0.978 min  
 Lab File: VV034340.D  
 Acq: 22 Feb 2024 12:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :

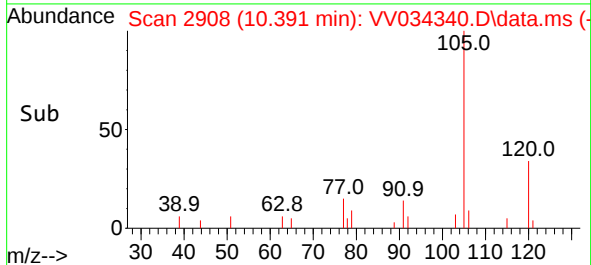
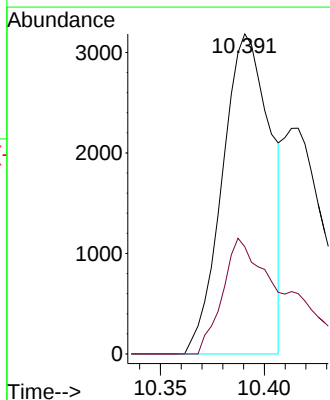
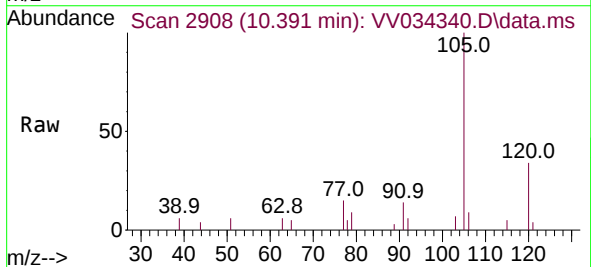


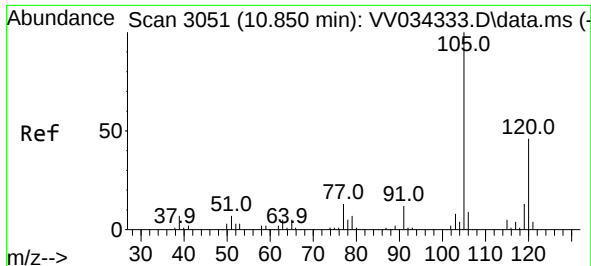
Tgt Ion: 75 Resp: 1852  
 Ion Ratio Lower Upper  
 75 100  
 77 38.3 26.9 40.3  
 110 0.0 33.3 49.9#



#62  
 1,3,5-Trimethylbenzene  
 Concen: 0.528 ug/L  
 RT: 10.391 min Scan# 2908  
 Delta R.T. -0.083 min  
 Lab File: VV034340.D  
 Acq: 22 Feb 2024 12:25

Tgt Ion: 105 Resp: 5111  
 Ion Ratio Lower Upper  
 105 100  
 120 48.8 38.2 57.4

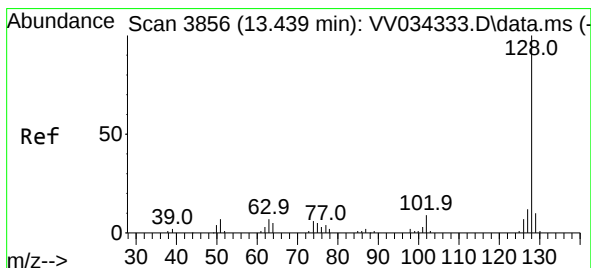
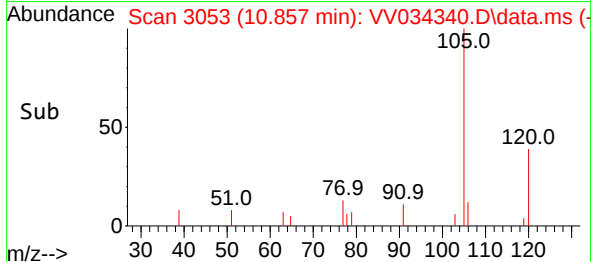
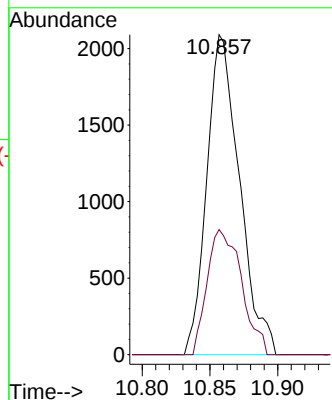
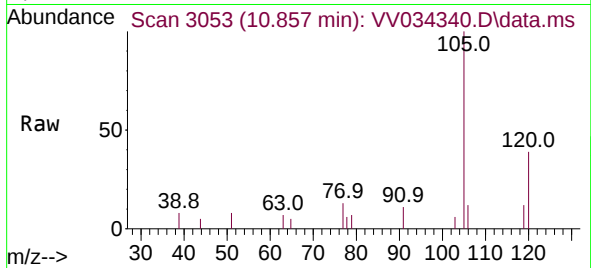




#63  
1,2,4-Trimethylbenzene  
Concen: 0.373 ug/L  
RT: 10.857 min Scan# 3053  
Delta R.T. 0.007 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:105 Resp: 3504  
Ion Ratio Lower Upper  
105 100  
120 41.0 36.2 54.2



#71  
Naphthalene  
Concen: 0.101 ug/L  
RT: 13.458 min Scan# 3862  
Delta R.T. 0.019 min  
Lab File: VV034340.D  
Acq: 22 Feb 2024 12:25

Tgt Ion:128 Resp: 397  
Ion Ratio Lower Upper  
128 100  
129 0.0 8.5 12.7#  
127 0.0 10.4 15.6#

