

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080224\  
 Data File : VX042849.D  
 Acq On : 02 Aug 2024 18:07  
 Operator : JC/MD  
 Sample : P3446-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 002-35TH-AVE(JUNE)

Quant Time: Aug 02 21:35:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080224W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 02 21:32:14 2024  
 Response via : Initial Calibration

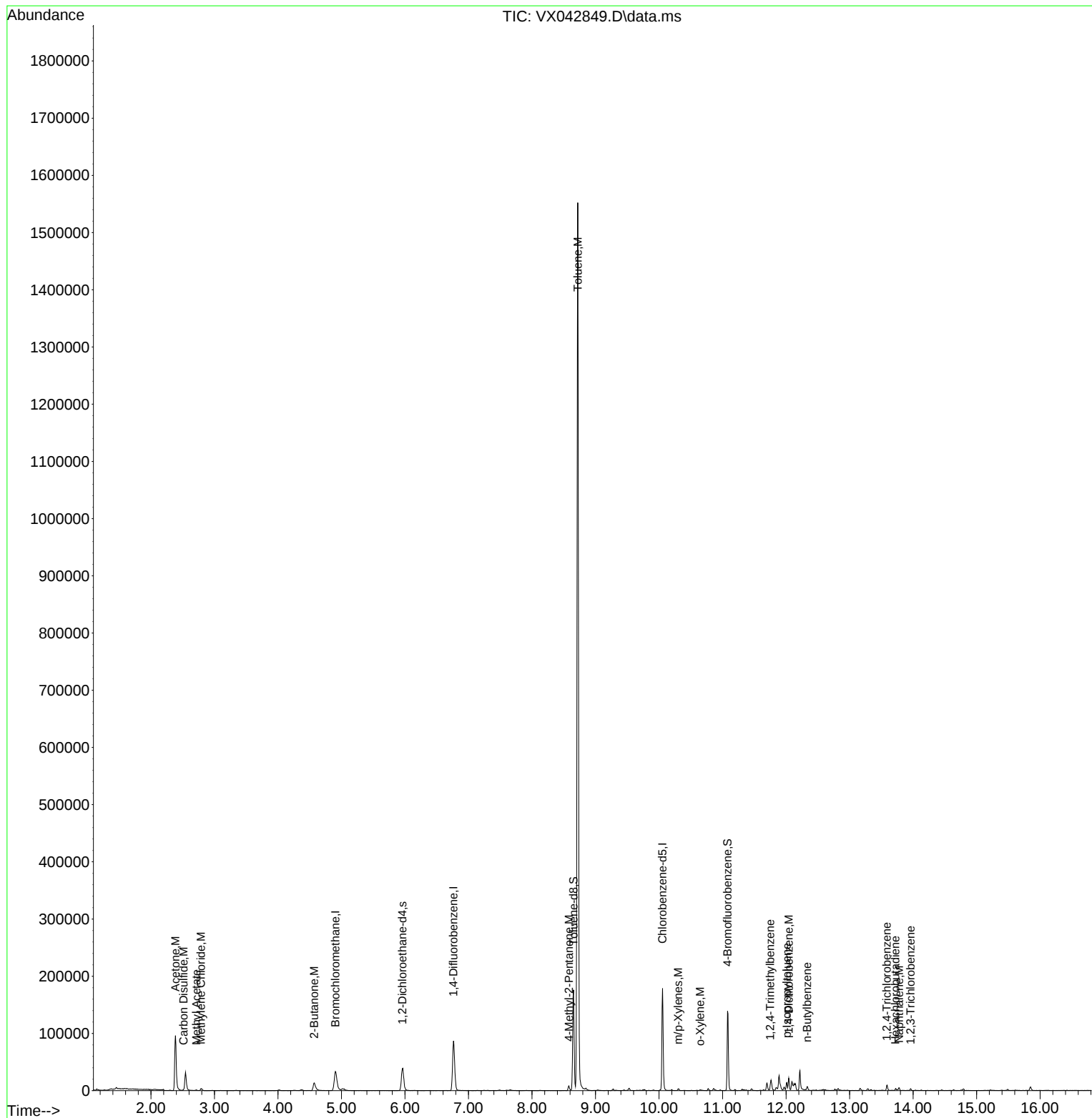
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-----------------------------|--------|-------|----------|----------|--------|-----------|
| -----                       |        |       |          |          |        |           |
| Internal Standards          |        |       |          |          |        |           |
| 1) Bromochloromethane       | 4.903  | 128   | 8652     | 30.000   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 86330    | 30.000   | ug/l   | 0.00      |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 81714    | 30.000   | ug/l   | 0.00      |
| System Monitoring Compounds |        |       |          |          |        |           |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 40292    | 47.462   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 158.200%# |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 39108    | 28.693   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 95.633%   |
| 63) Toluene-d8              | 8.653  | 98    | 106485   | 29.545   | ug/l   | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.467%   |
| Target Compounds            |        |       |          |          |        |           |
|                             |        |       |          |          | Qvalue |           |
| 12) Methyl Acetate          | 2.715  | 43    | 1182     | 1.170    | ug/l # | 73        |
| 15) Acetone                 | 2.385  | 58    | 33446    | 282.148  | ug/l   | 99        |
| 16) Carbon Disulfide        | 2.513  | 76    | 1327     | 1.203    | ug/l # | 85        |
| 18) Methylene Chloride      | 2.788  | 84    | 1759     | 2.610    | ug/l   | 89        |
| 30) 2-Butanone              | 4.568  | 43    | 21194    | 26.515   | ug/l # | 97        |
| 58) 4-Methyl-2-Pentanone    | 8.579  | 43    | 4653     | 3.231    | ug/l # | 93        |
| 62) Toluene                 | 8.720  | 91    | 1009261  | 244.390  | ug/l   | 100       |
| 67) m/p-Xylenes             | 10.299 | 106   | 926      | 0.519    | ug/l   | 84        |
| 68) o-Xylene                | 10.646 | 106   | 354      | 0.203    | ug/l   | 92        |
| 80) 1,2,4-Trimethylbenzene  | 11.750 | 105   | 3314     | 0.864    | ug/l   | 63        |
| 82) p-Isopropyltoluene      | 12.012 | 119   | 5799     | 1.447    | ug/l   | 94        |
| 84) 1,4-Dichlorobenzene     | 12.042 | 146   | 4016     | 1.931    | ug/l   | 95        |
| 85) n-Butylbenzene          | 12.329 | 91    | 1797     | 0.515    | ug/l   | 98        |
| 89) 1,2,4-Trichlorobenzene  | 13.585 | 180   | 1210     | 0.971    | ug/l   | 95        |
| 90) Hexachlorobutadiene     | 13.719 | 225   | 427      | 0.812    | ug/l   | 82        |
| 91) Naphthalene             | 13.780 | 128   | 3531     | 0.763    | ug/l   | 97        |
| 92) 1,2,3-Trichlorobenzene  | 13.963 | 180   | 992      | 0.773    | ug/l   | 88        |
| -----                       |        |       |          |          |        |           |

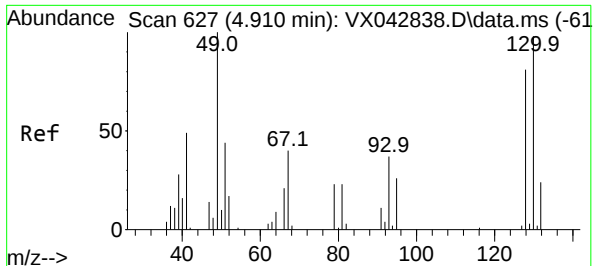
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080224\  
Data File : VX042849.D  
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Sample : P3446-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

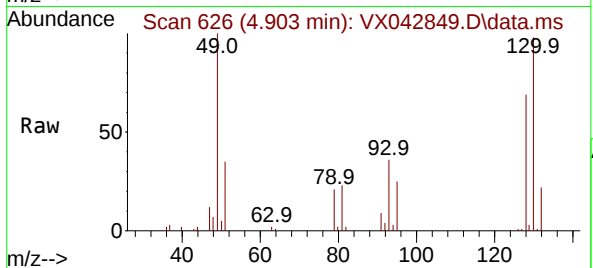
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080224W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 02 21:32:14 2024  
Response via : Initial Calibration



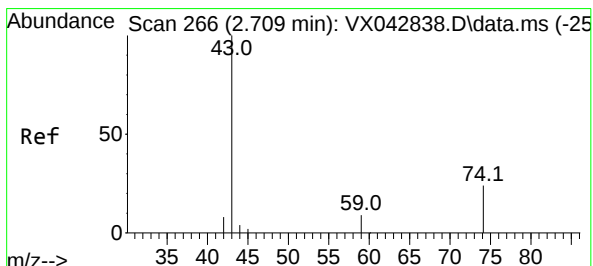
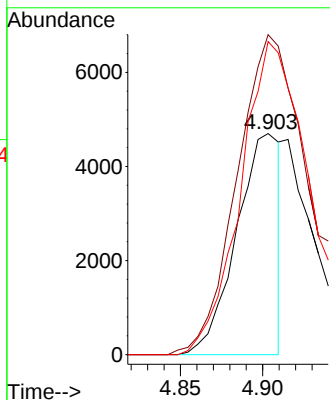
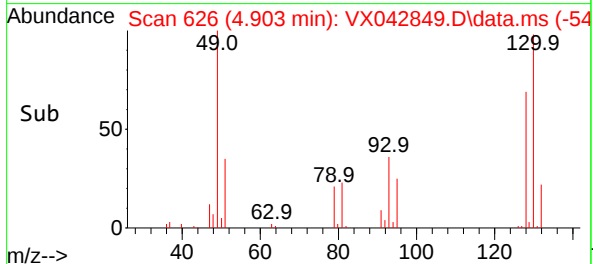


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.903 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

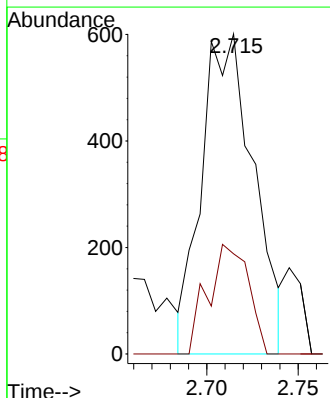
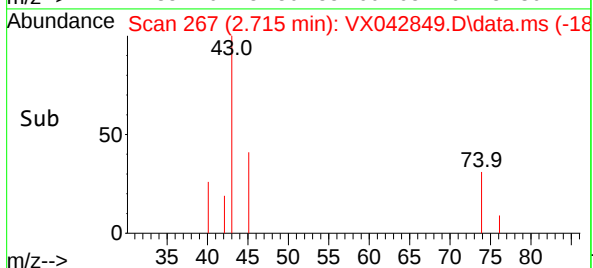
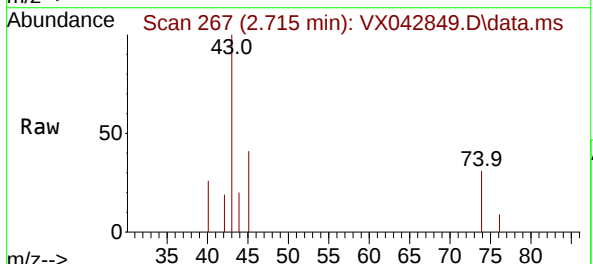


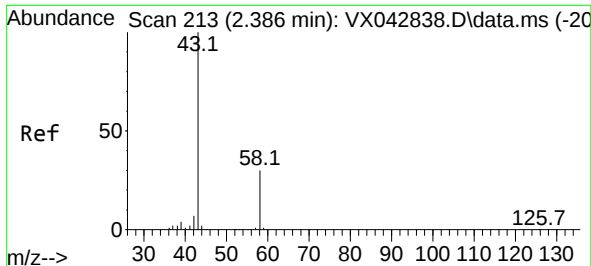
Tgt Ion:128 Resp: 8652  
Ion Ratio Lower Upper  
128 100  
49 248.4 0.0 338.5  
130 230.2 0.0 324.5



#12  
Methyl Acetate  
Concen: 1.170 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Tgt Ion: 43 Resp: 1182  
Ion Ratio Lower Upper  
43 100  
74 37.6 19.4 29.2#

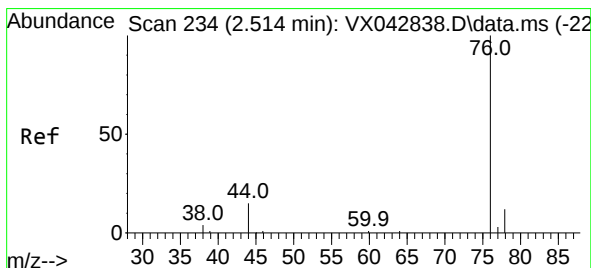
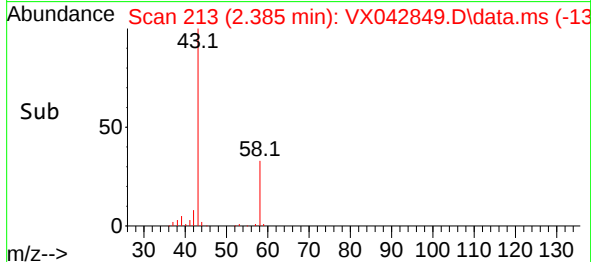
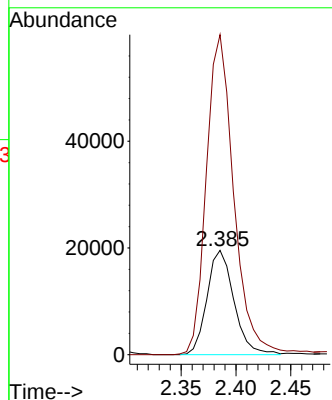
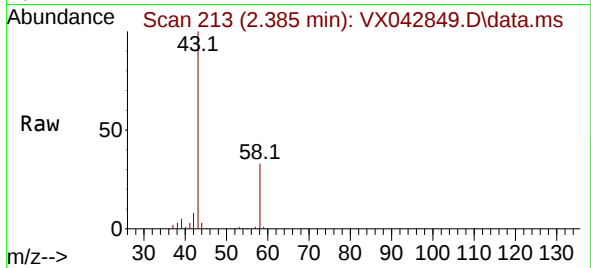




#15  
Acetone  
Concen: 282.148 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

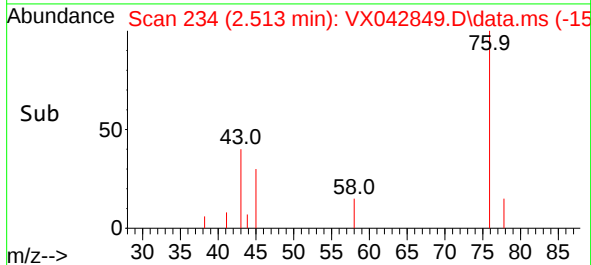
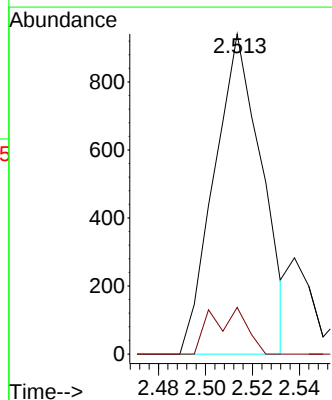
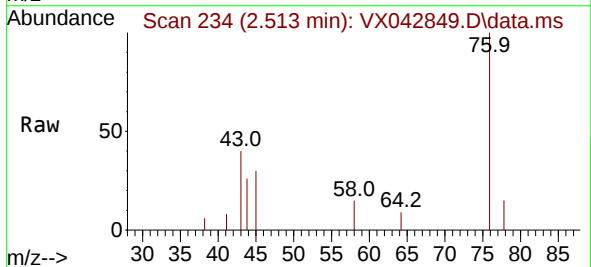
Instrument :  
MSVOA\_X  
ClientSampleId :  
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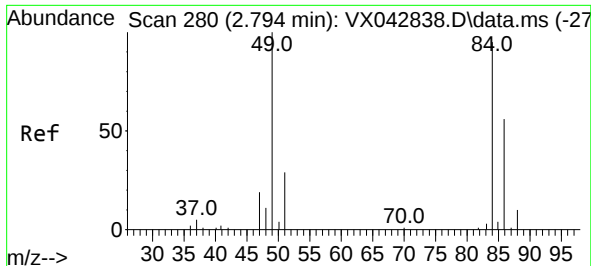
Tgt Ion: 58 Resp: 33446  
Ion Ratio Lower Upper  
58 100  
43 305.9 243.4 365.2



#16  
Carbon Disulfide  
Concen: 1.203 ug/l  
RT: 2.513 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

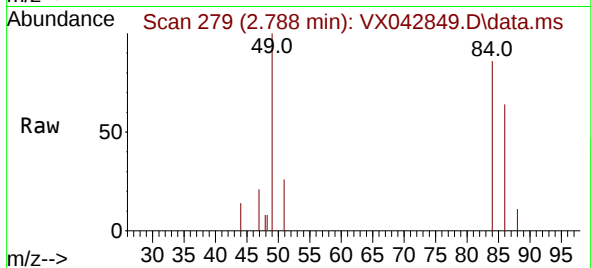
Tgt Ion: 76 Resp: 1327  
Ion Ratio Lower Upper  
76 100  
78 14.6 7.3 10.9#



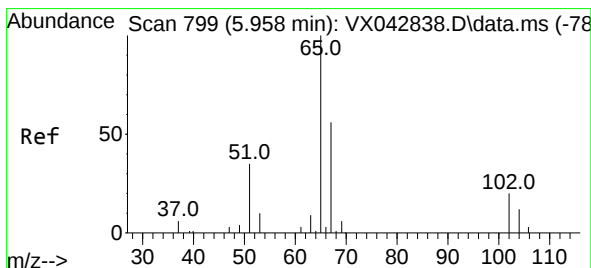
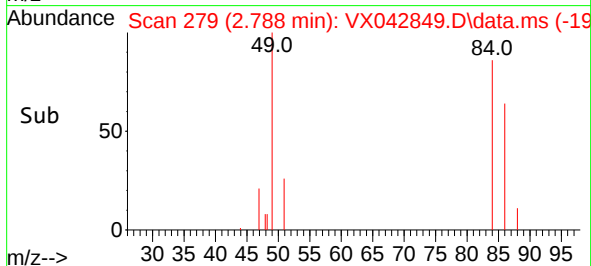
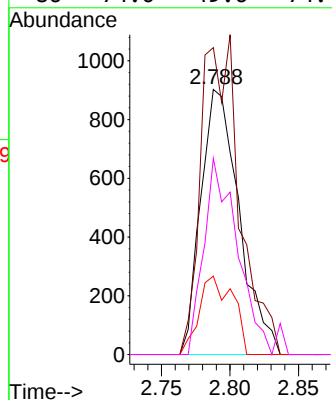


#18  
Methylene Chloride  
Concen: 2.610 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
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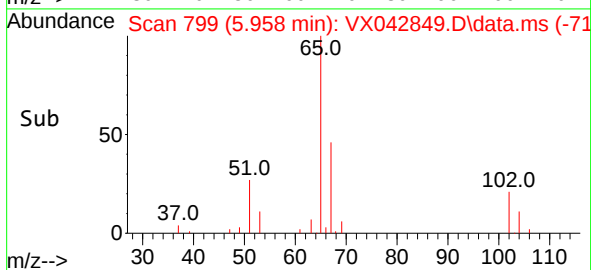
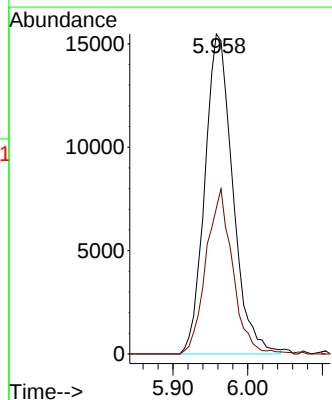
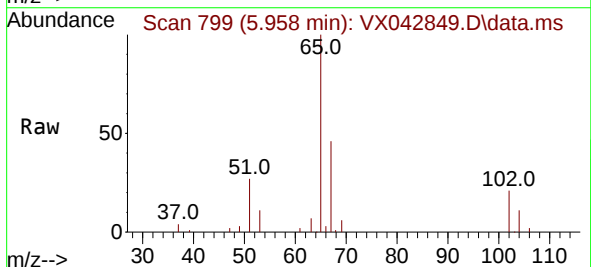


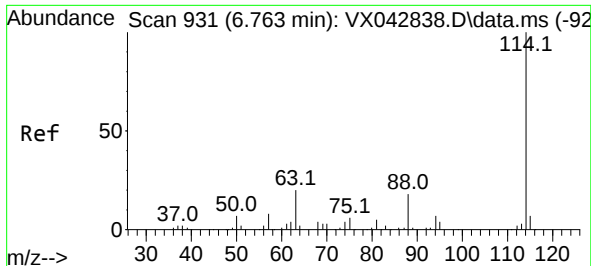
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 1759  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 115.7    | 85.3 127.9  |
| 51 29.6     | 28.5 42.7   |
| 86 74.0     | 49.6 74.4   |



#27  
1,2-Dichloroethane-d4  
Concen: 47.462 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

|             |             |
|-------------|-------------|
| Tgt Ion: 65 | Resp: 40292 |
| Ion Ratio   | Lower Upper |
| 65 100      |             |
| 67 48.5     | 43.4 65.0   |

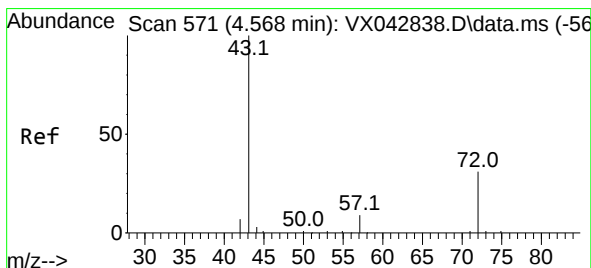
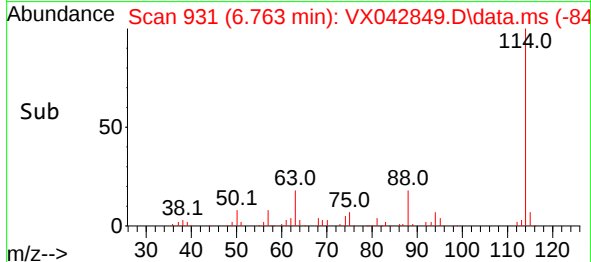
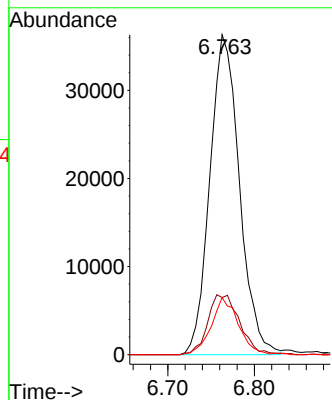
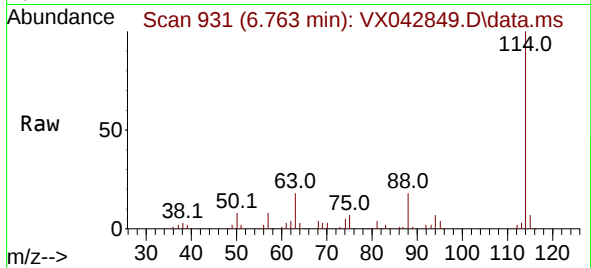




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

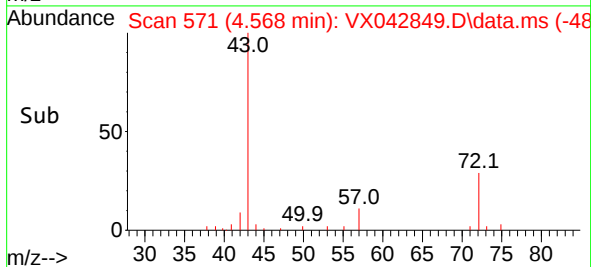
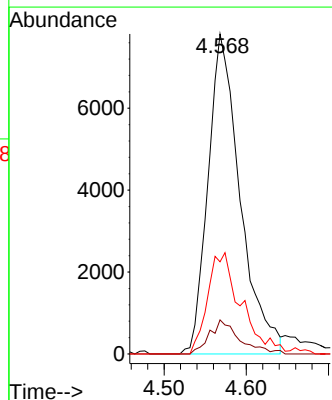
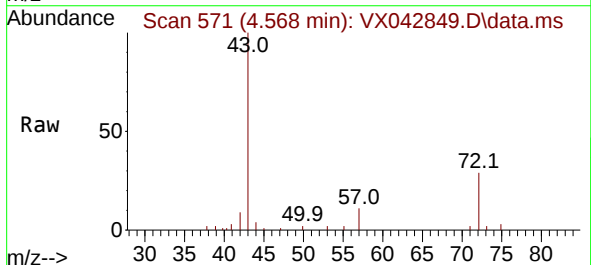
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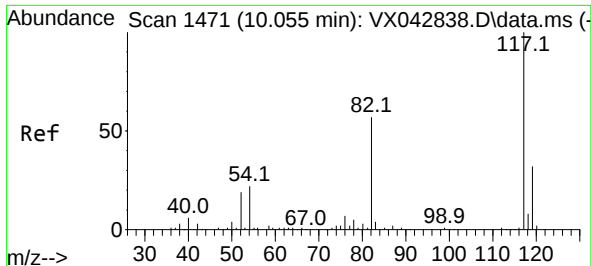
Tgt Ion:114 Resp: 86330  
Ion Ratio Lower Upper  
114 100  
63 20.1 14.6 21.8  
88 16.3 11.8 17.8



#30  
2-Butanone  
Concen: 26.515 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Tgt Ion: 43 Resp: 21194  
Ion Ratio Lower Upper  
43 100  
57 9.7 6.5 9.7#  
72 25.9 22.0 33.0

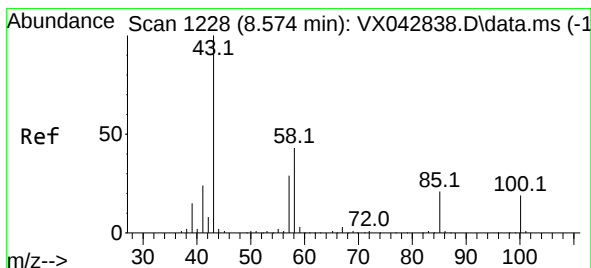
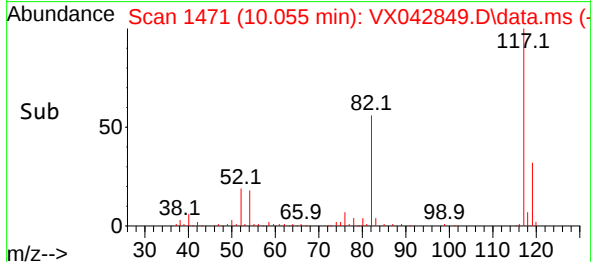
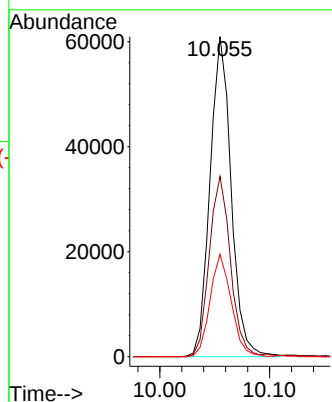
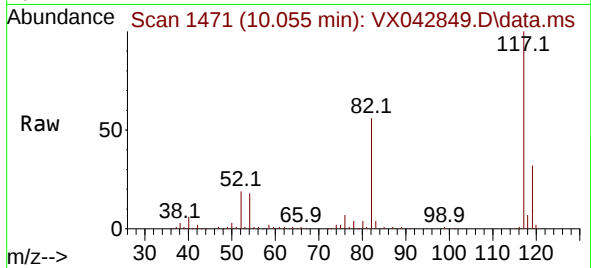




#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 10.055 min Scan# 1471  
 Delta R.T. -0.000 min  
 Lab File: VX042849.D  
 Acq: 02 Aug 2024 18:07

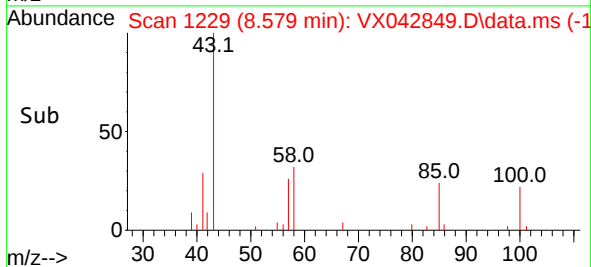
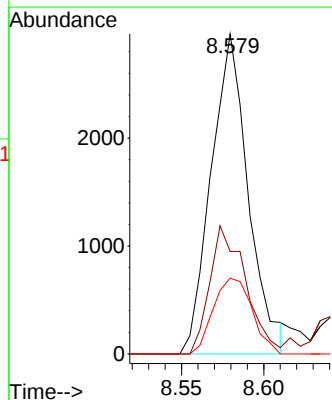
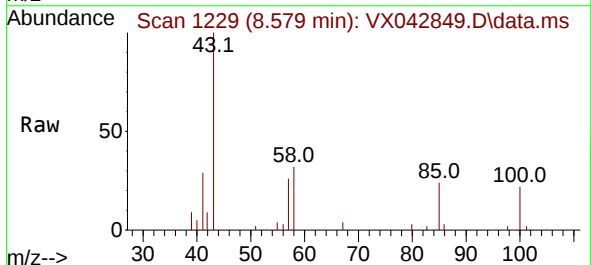
Instrument :  
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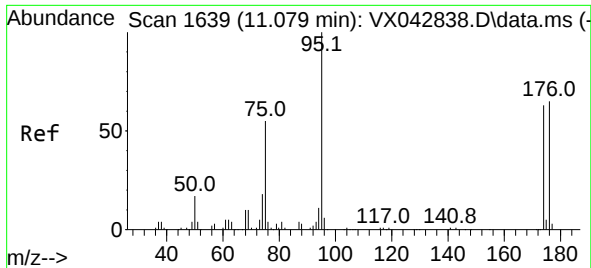
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|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 81714       |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 82          | 56.8  | 41.1 61.7   |
| 119         | 32.0  | 26.1 39.1   |



#58  
 4-Methyl-2-Pentanone  
 Concen: 3.231 ug/l  
 RT: 8.579 min Scan# 1229  
 Delta R.T. 0.006 min  
 Lab File: VX042849.D  
 Acq: 02 Aug 2024 18:07

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 4653        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 38.7  | 33.2 49.8   |
| 85          | 24.7  | 15.5 23.3   |

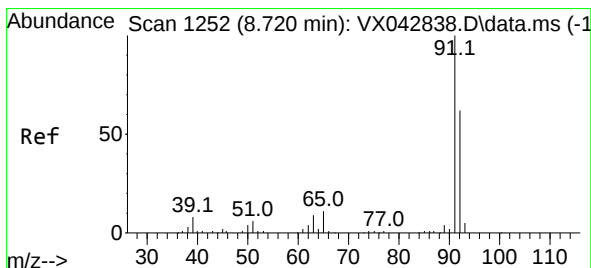
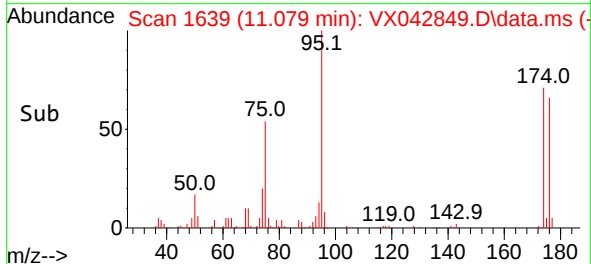
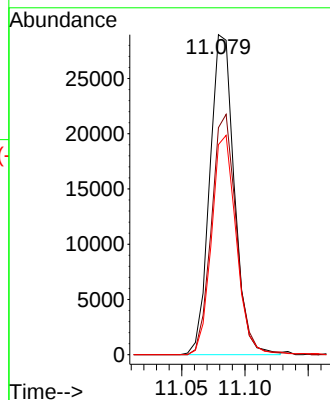
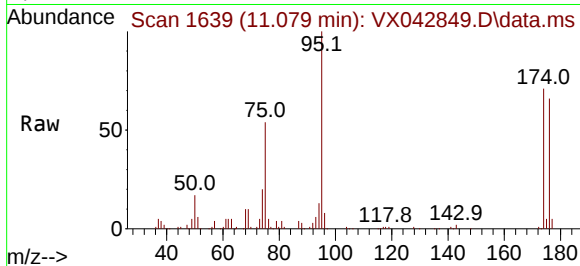




#60  
4-Bromofluorobenzene  
Concen: 28.693 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

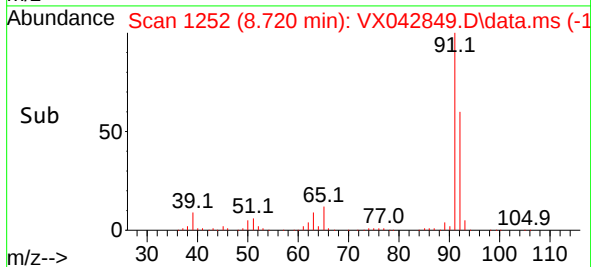
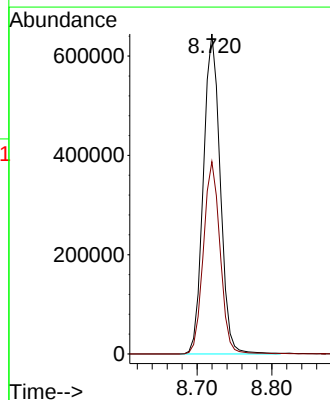
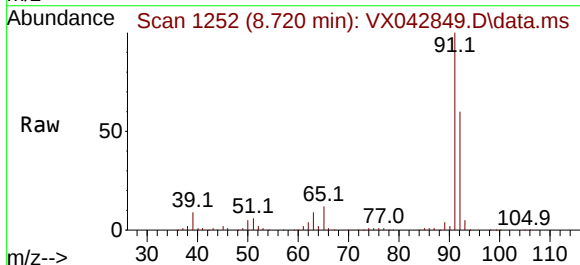
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

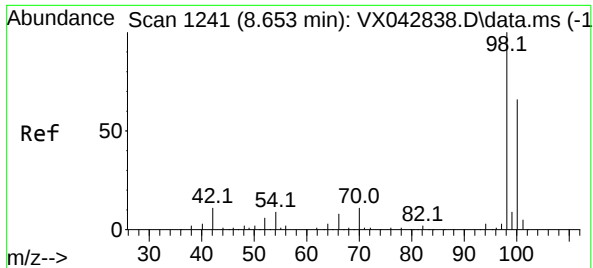
Tgt Ion: 95 Resp: 39108  
Ion Ratio Lower Upper  
95 100  
174 76.1 78.9 118.3#  
176 68.4 77.1 115.7#



#62  
Toluene  
Concen: 244.390 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Tgt Ion: 91 Resp: 1009261  
Ion Ratio Lower Upper  
91 100  
92 59.3 47.4 71.2

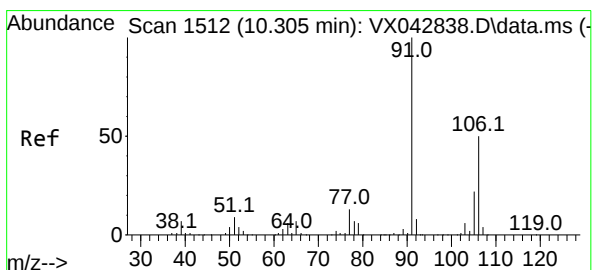
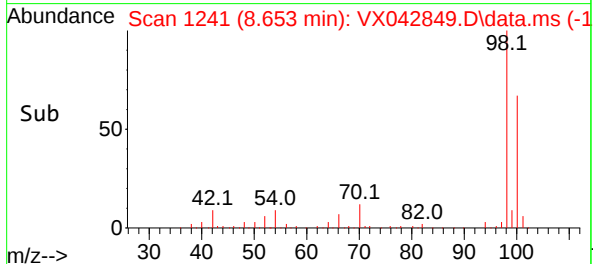
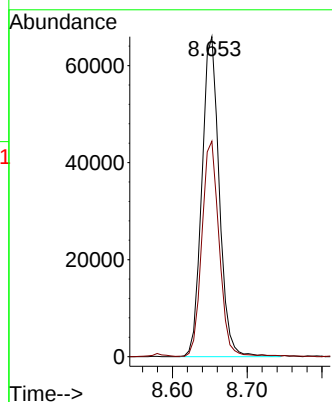
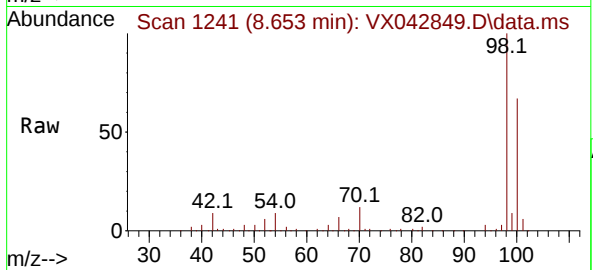




#63  
Toluene-d8  
Concen: 29.545 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

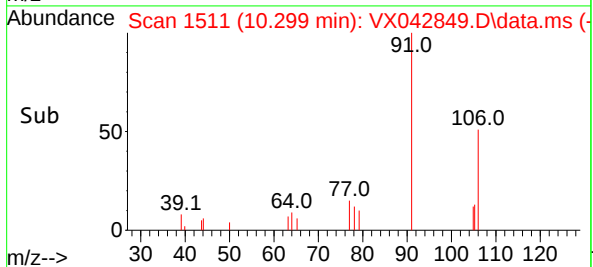
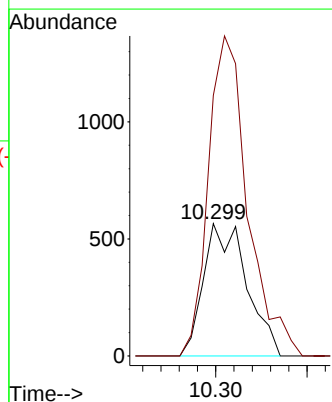
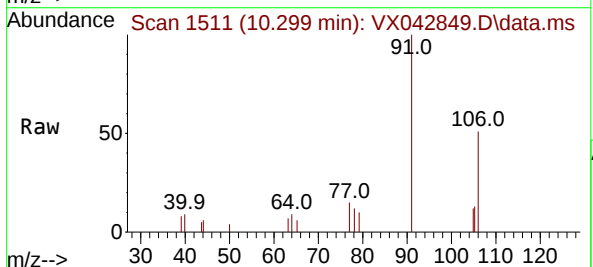
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

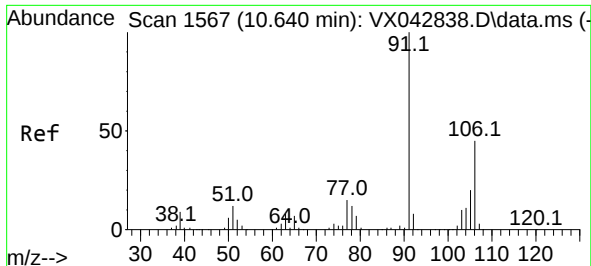
Tgt Ion: 98 Resp: 106485  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.7 79.1



#67  
m/p-Xylenes  
Concen: 0.519 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Tgt Ion:106 Resp: 926  
Ion Ratio Lower Upper  
106 100  
91 220.8 157.0 235.6

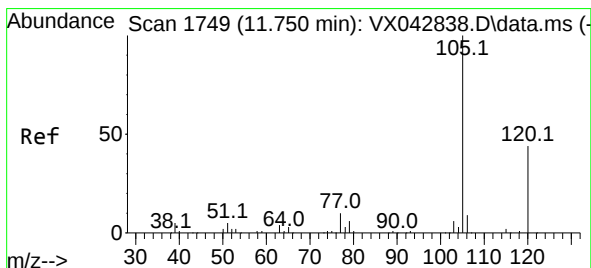
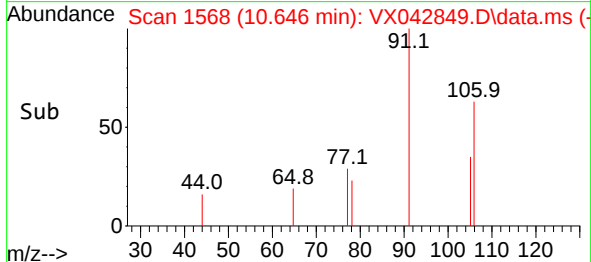
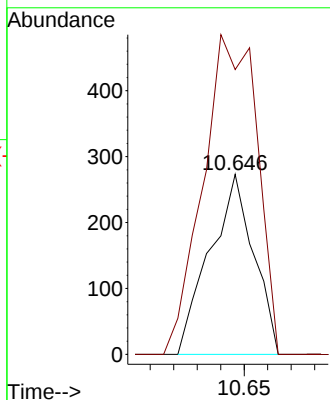
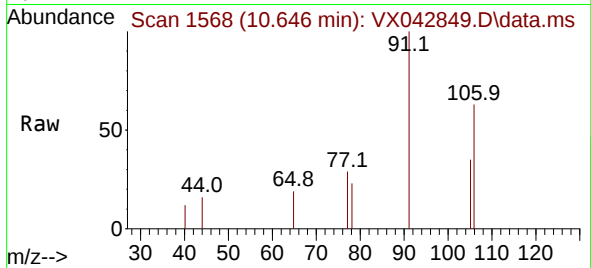




#68  
o-Xylene  
Concen: 0.203 ug/l  
RT: 10.646 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

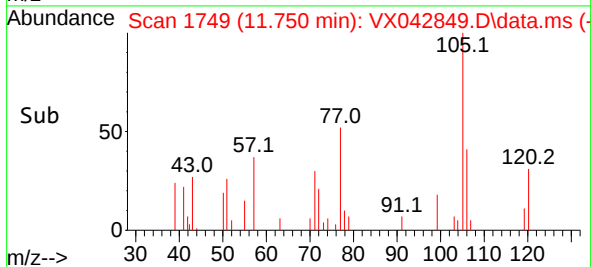
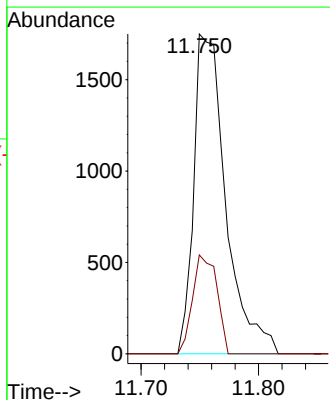
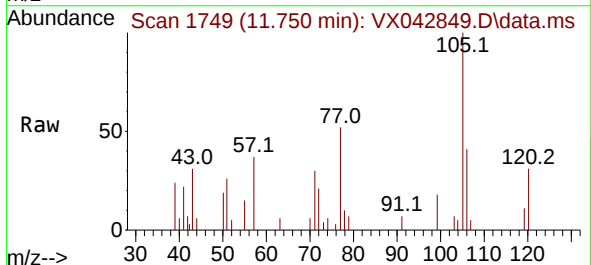
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

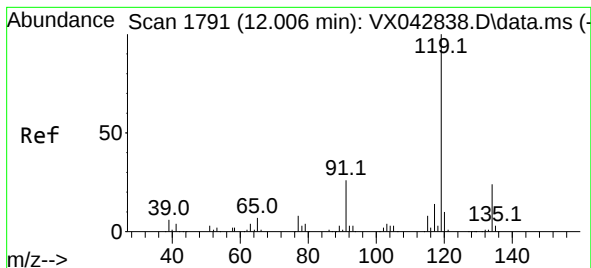
Tgt Ion:106 Resp: 354  
Ion Ratio Lower Upper  
106 100  
91 218.9 103.2 309.6



#80  
1,2,4-Trimethylbenzene  
Concen: 0.864 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

Tgt Ion:105 Resp: 3314  
Ion Ratio Lower Upper  
105 100  
120 23.4 0.0 96.2





#82

p-Isopropyltoluene

Concen: 1.447 ug/l

RT: 12.012 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VX042849.D

Acq: 02 Aug 2024 18:07

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(JUNE)

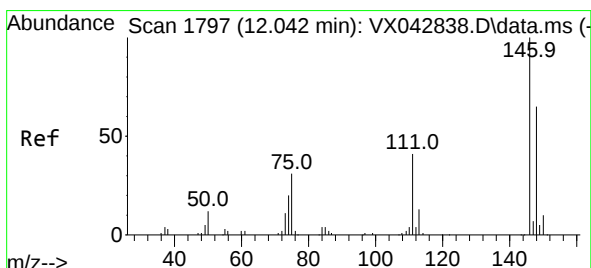
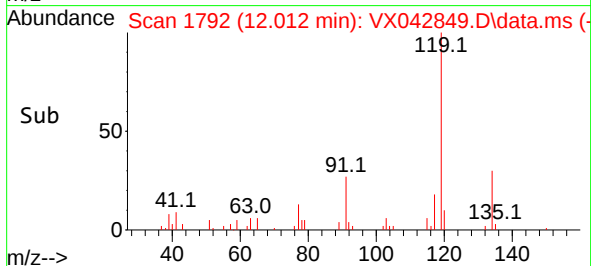
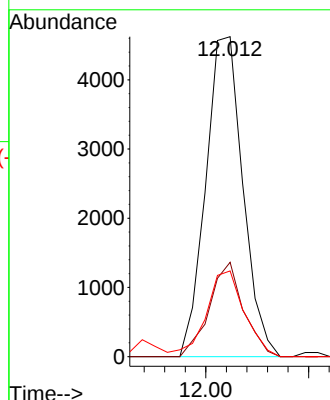
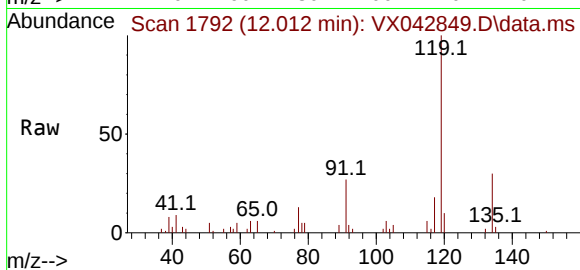
Tgt Ion:119 Resp: 5799

Ion Ratio Lower Upper

119 100

134 27.2 0.0 54.0

91 27.6 0.0 42.2



#84

1,4-Dichlorobenzene

Concen: 1.931 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX042849.D

Acq: 02 Aug 2024 18:07

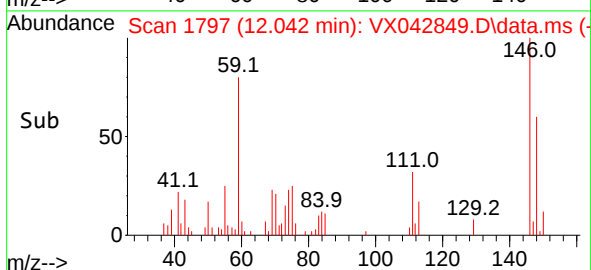
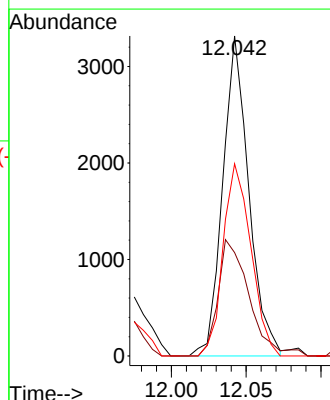
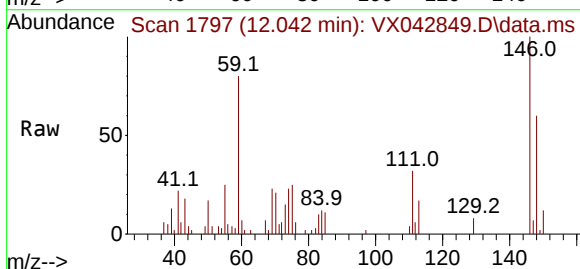
Tgt Ion:146 Resp: 4016

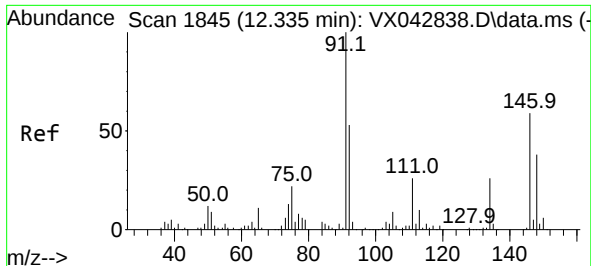
Ion Ratio Lower Upper

146 100

111 42.0 17.4 52.3

148 64.2 32.3 96.9

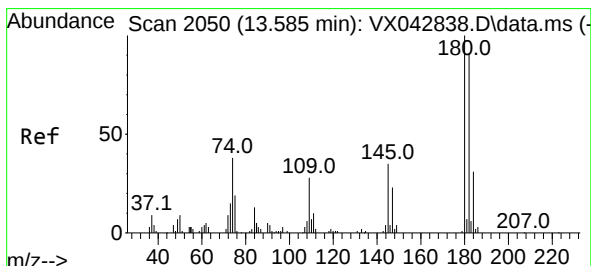
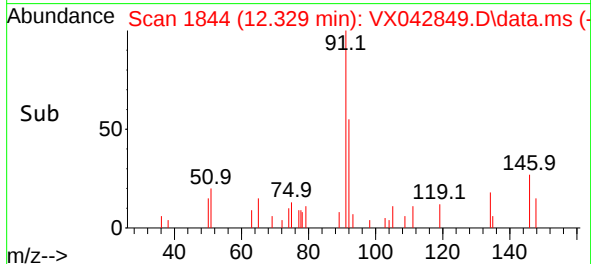
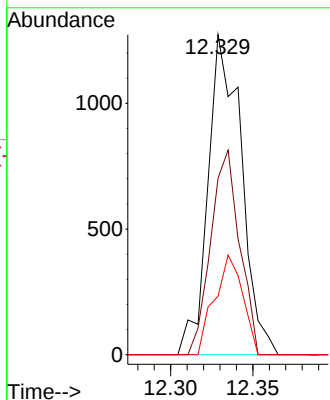
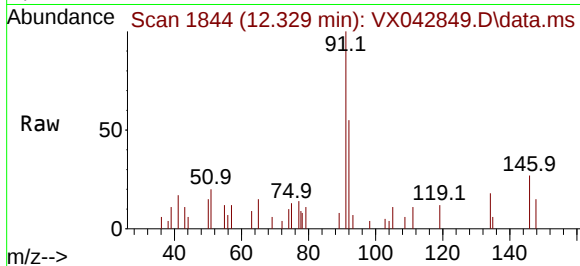




#85  
n-Butylbenzene  
Concen: 0.515 ug/l  
RT: 12.329 min Scan# 1844  
Delta R.T. -0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

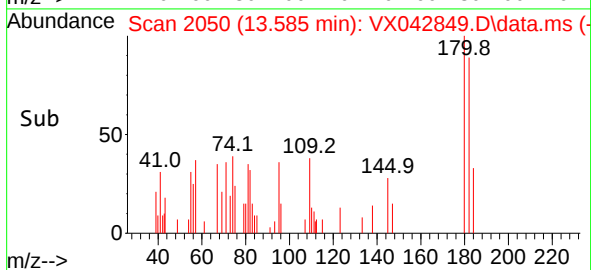
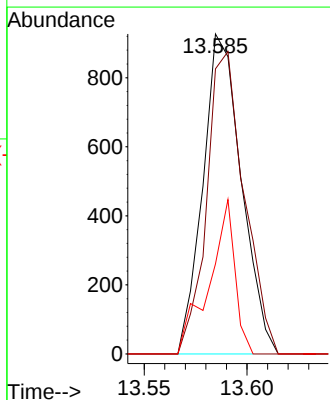
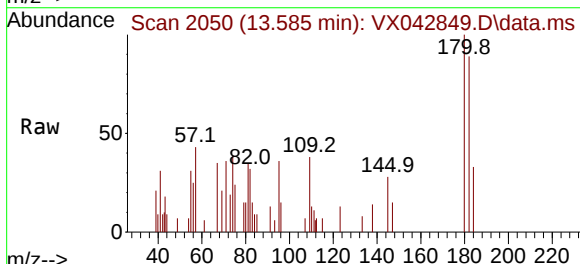
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

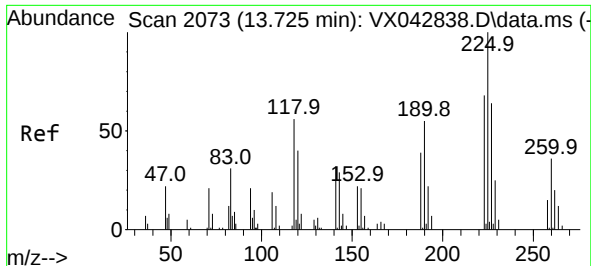
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 91 | Resp: | 1797        |
| Ion         | Ratio | Lower Upper |
| 91          | 100   |             |
| 92          | 55.3  | 0.0 109.8   |
| 134         | 26.2  | 0.0 58.4    |



#89  
1,2,4-Trichlorobenzene  
Concen: 0.971 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 180 | Resp: | 1210        |
| Ion          | Ratio | Lower Upper |
| 180          | 100   |             |
| 182          | 92.0  | 76.9 115.3  |
| 145          | 32.1  | 22.8 34.2   |

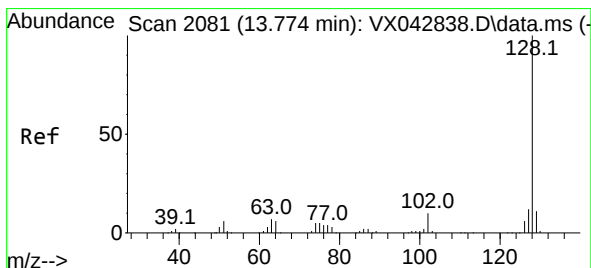
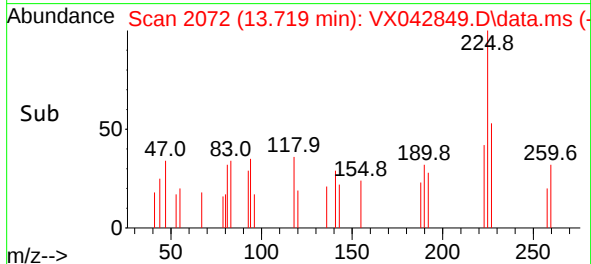
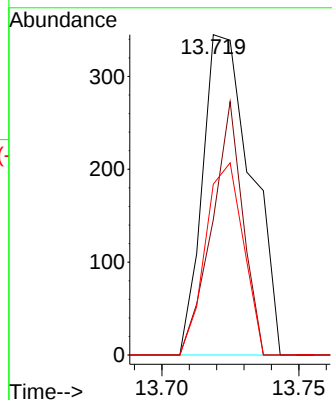
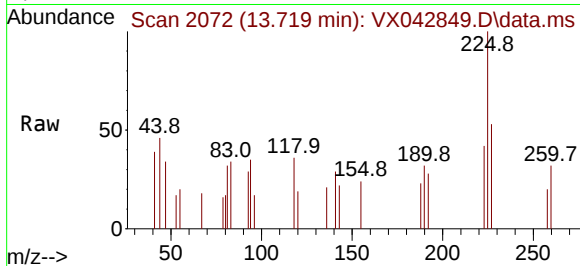




#90  
Hexachlorobutadiene  
Concen: 0.812 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

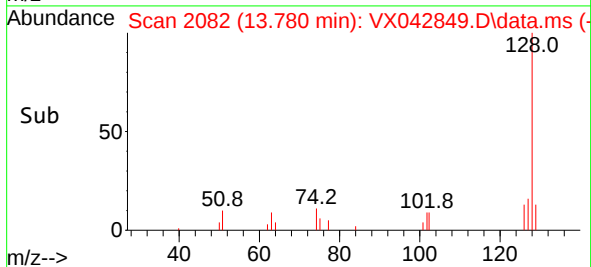
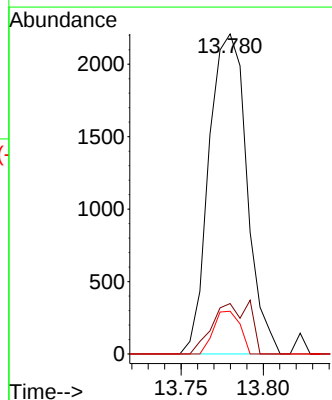
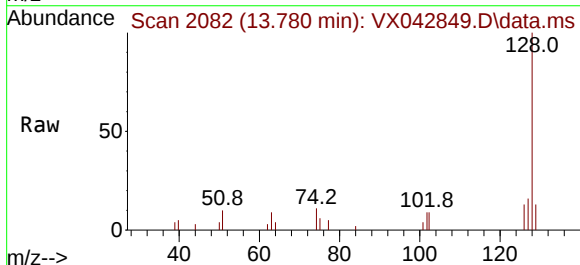
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JUNE)

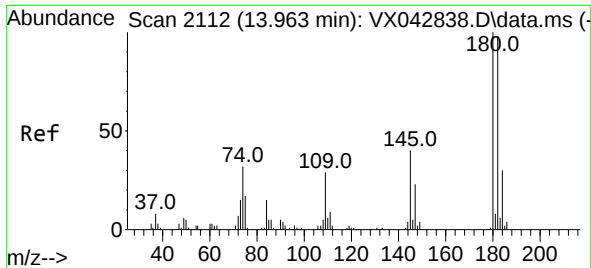
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:225 | Resp: | 427         |
| Ion         | Ratio | Lower Upper |
| 225         | 100   |             |
| 223         | 50.1  | 0.0 120.8   |
| 227         | 46.6  | 0.0 126.6   |



#91  
Naphthalene  
Concen: 0.763 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX042849.D  
Acq: 02 Aug 2024 18:07

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 3531        |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 12.0  | 10.4 15.6   |
| 129         | 9.3   | 8.7 13.1    |





#92

1,2,3-Trichlorobenzene

Concen: 0.773 ug/l

RT: 13.963 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX042849.D

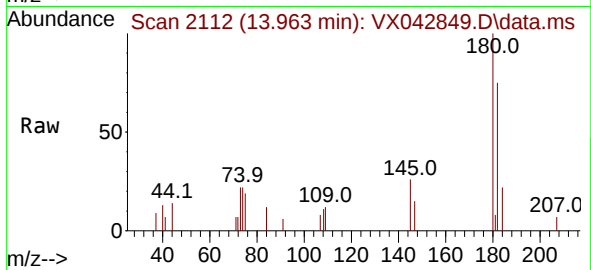
Acq: 02 Aug 2024 18:07

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(JUNE)



Tgt Ion:180 Resp: 992

Ion Ratio Lower Upper

180 100

182 79.8 0.0 187.8

145 31.5 0.0 58.4

