

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070722\  
 Data File : VX029959.D  
 Acq On : 07 Jul 2022 16:51  
 Operator : JC/MD  
 Sample : N3617-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-04

Quant Time: Jul 08 05:35:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 05:54:51 2022  
 Response via : Initial Calibration

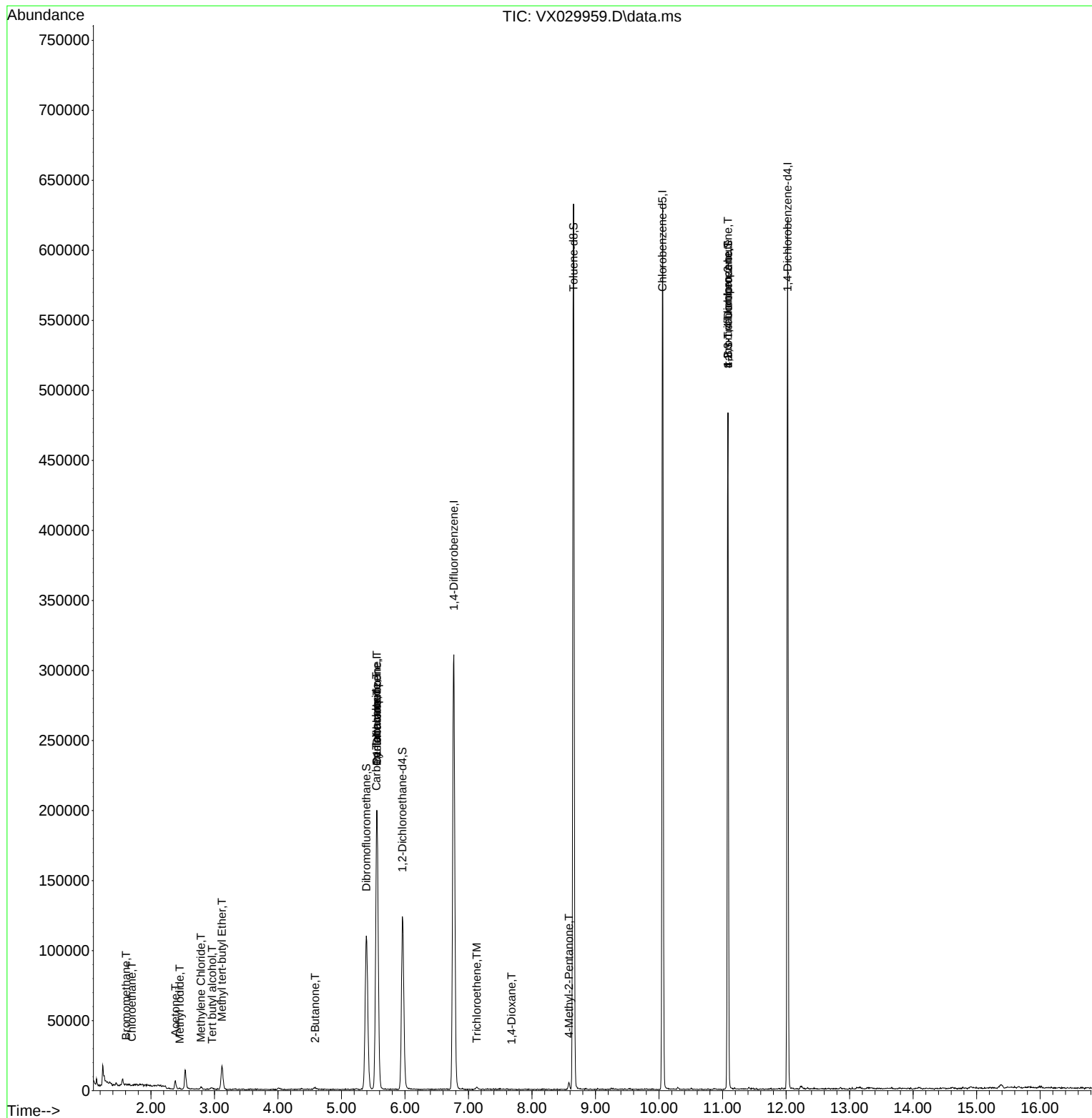
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 198766     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 339628     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 294012     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 126290     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 108363     | 43.069    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 86.140%   |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 98532      | 46.423    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.840%   |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 387365     | 48.649    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 97.300%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 128749     | 45.743    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 91.480%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 5) Bromomethane               | 1.605          | 94   | 297        | 0.243     | ug/l # | 66       |
| 6) Chloroethane               | 1.697          | 64   | 527        | 1.352     | ug/l # | 41       |
| 10) Methyl Iodide             | 2.453          | 142  | 420        | 2.021     | ug/l # | 88       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 1177       | 1.789     | ug/l # | 74       |
| 13) Acrolein                  | 2.178          | 56   | 52         | Below Cal | #      | 9        |
| 16) Acetone                   | 2.385          | 43   | 6179       | 5.020     | ug/l   | 98       |
| 19) Methyl tert-butyl Ether   | 3.117          | 73   | 17926      | 2.594     | ug/l   | 94       |
| 20) Methylene Chloride        | 2.788          | 84   | 778        | 0.299     | ug/l # | 77       |
| 25) 2-Butanone                | 4.586          | 43   | 1027       | 0.481     | ug/l # | 84       |
| 31) Cyclohexane               | 5.556          | 56   | 3830       | 1.092     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 14059      | 4.980     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 18394      | 7.520     | ug/l # | 19       |
| 44) Trichloroethene           | 7.129          | 130  | 785        | 0.319     | ug/l   | 71       |
| 49) 1,4-Dioxane               | 7.677          | 88   | 27         | 0.414     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.579          | 43   | 3315       | 0.865     | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 61340      | 20.290    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 61340      | 64.435    | ug/l # | 13       |
| -----                         |                |      |            |           |        |          |

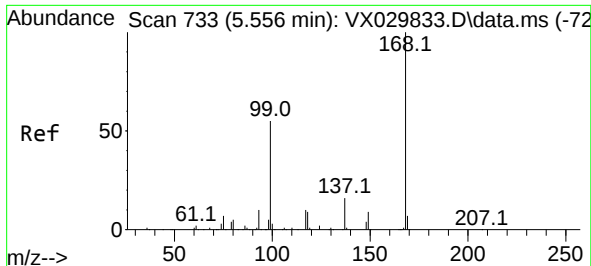
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :  
MW-04

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062822W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 29 05:54:51 2022  
Response via : Initial Calibration

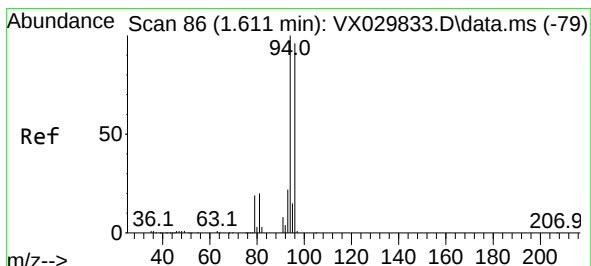
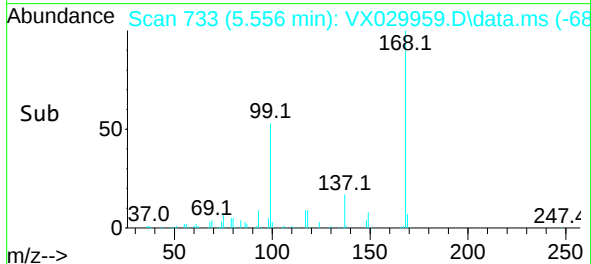
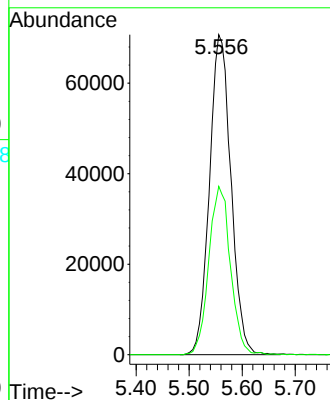
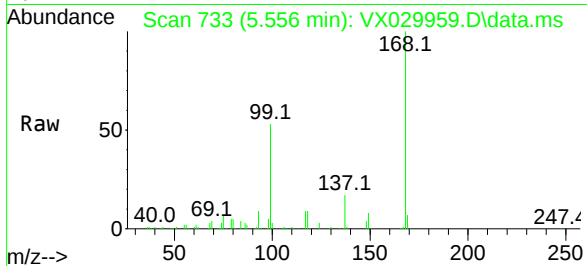




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

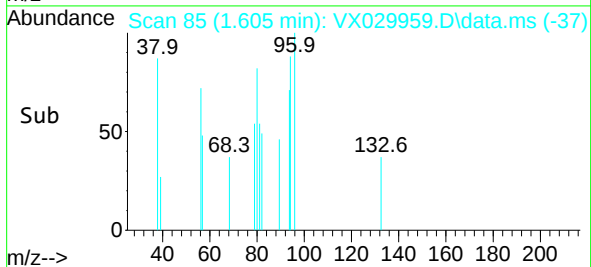
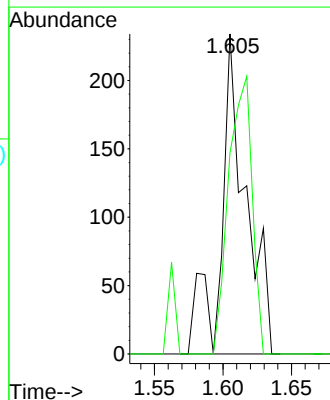
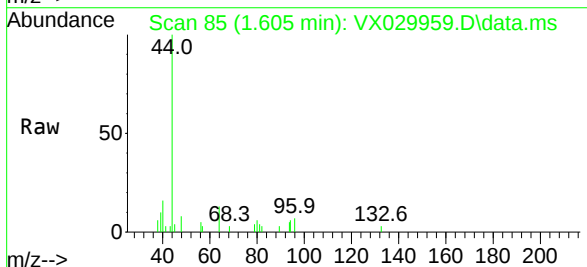
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

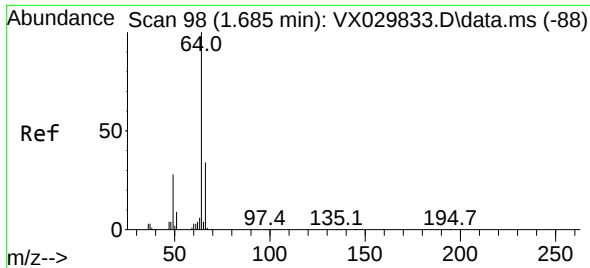
Tgt Ion:168 Resp: 198766  
Ion Ratio Lower Upper  
168 100  
99 52.6 44.0 66.0



#5  
Bromomethane  
Concen: 0.243 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. -0.006 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 94 Resp: 297  
Ion Ratio Lower Upper  
94 100  
96 62.8 76.9 115.3#

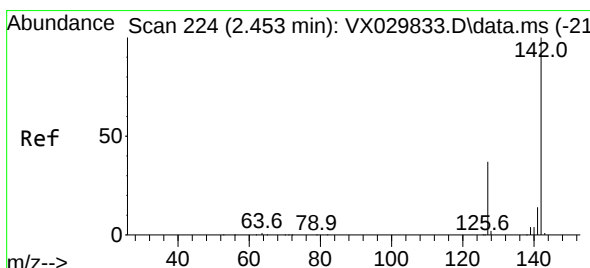
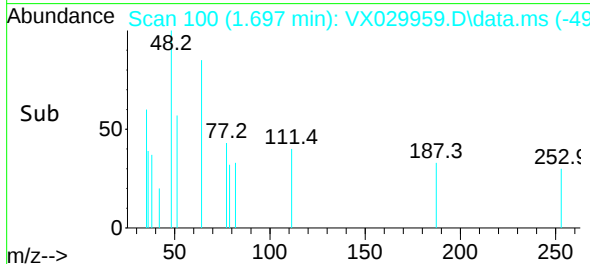
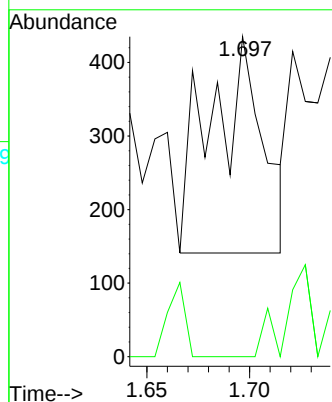
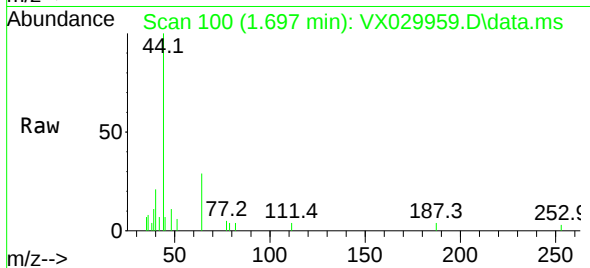




#6  
Chloroethane  
Concen: 1.352 ug/l  
RT: 1.697 min Scan# 100  
Delta R.T. 0.012 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

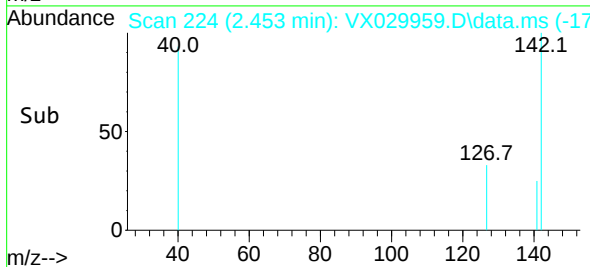
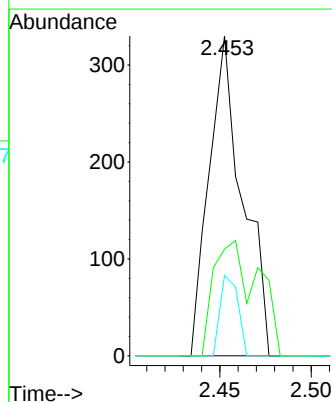
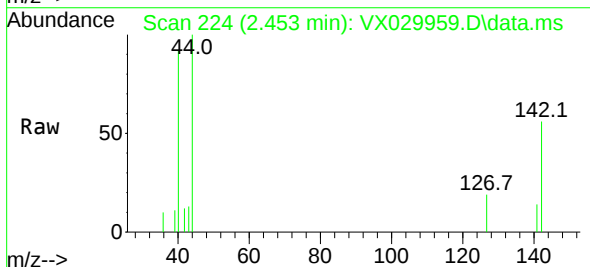
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

Tgt Ion: 64 Resp: 527  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#



#10  
Methyl Iodide  
Concen: 2.021 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 142 Resp: 420  
Ion Ratio Lower Upper  
142 100  
127 47.4 30.2 45.2#  
141 13.3 11.3 16.9

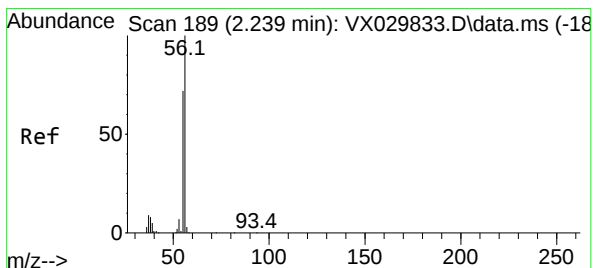
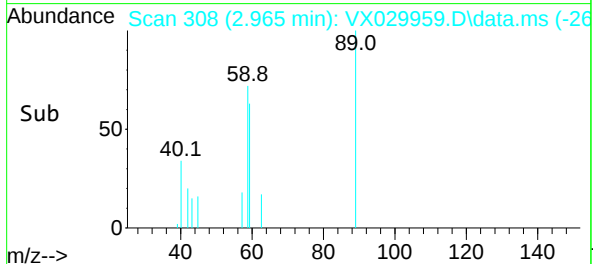
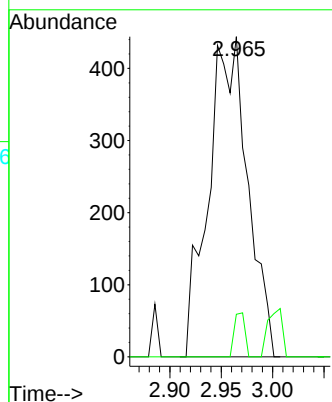
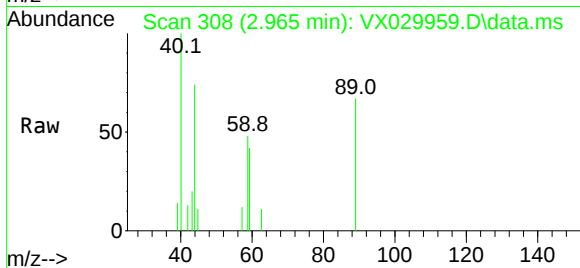




#11  
Tert butyl alcohol  
Concen: 1.789 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.031 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

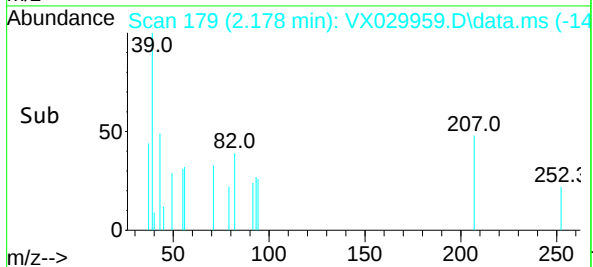
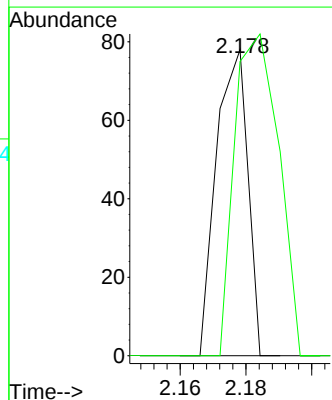
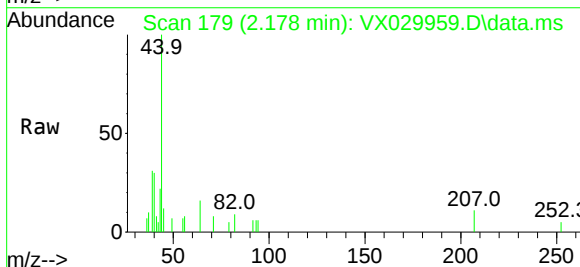
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

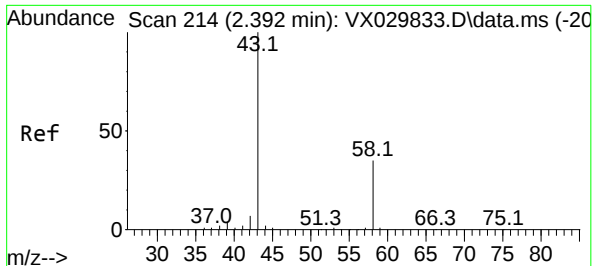
Tgt Ion: 59 Resp: 1177  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.178 min Scan# 179  
Delta R.T. -0.061 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 56 Resp: 52  
Ion Ratio Lower Upper  
56 100  
55 146.2 56.6 84.8#

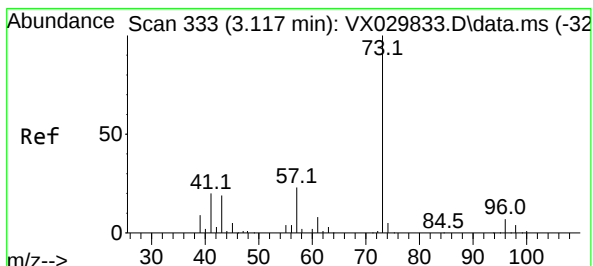
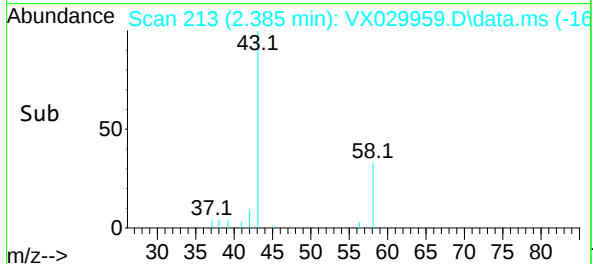
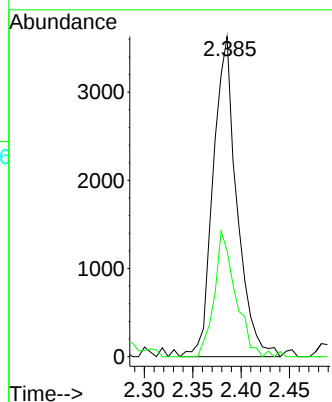
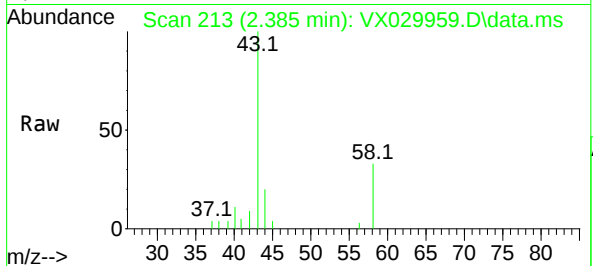




#16  
Acetone  
Concen: 5.020 ug/l  
RT: 2.385 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

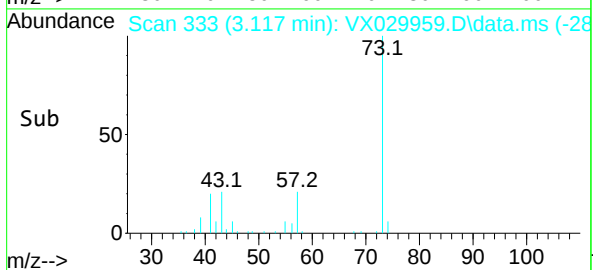
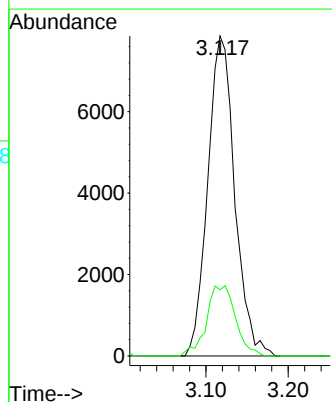
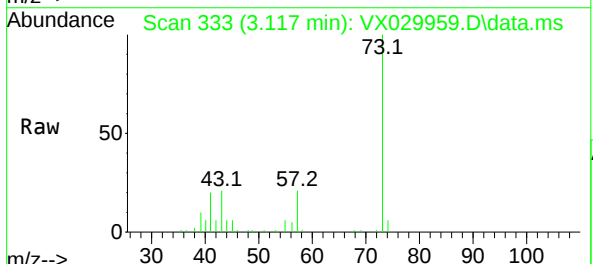
Instrument :  
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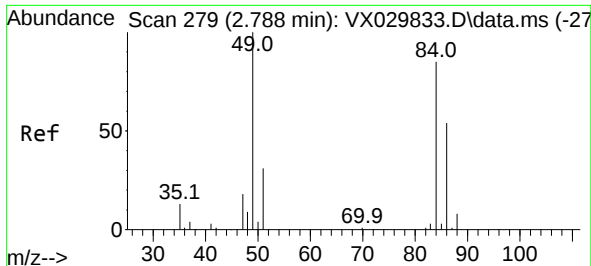
Tgt Ion: 43 Resp: 6179  
Ion Ratio Lower Upper  
43 100  
58 33.2 27.7 41.5



#19  
Methyl tert-butyl Ether  
Concen: 2.594 ug/l  
RT: 3.117 min Scan# 333  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 73 Resp: 17926  
Ion Ratio Lower Upper  
73 100  
57 20.7 19.0 28.6

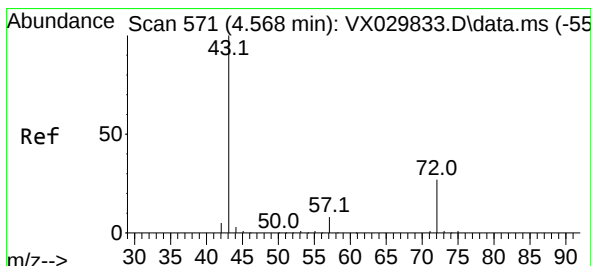
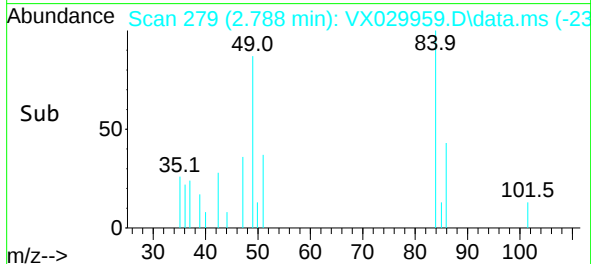
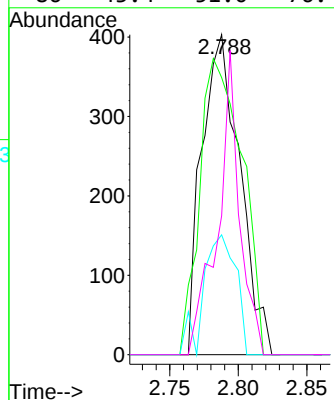
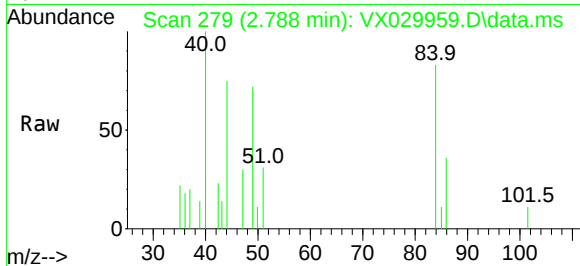




#20  
Methylene Chloride  
Concen: 0.299 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

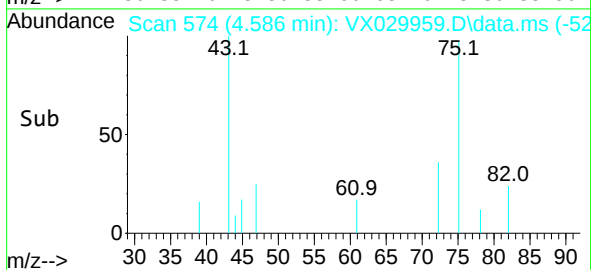
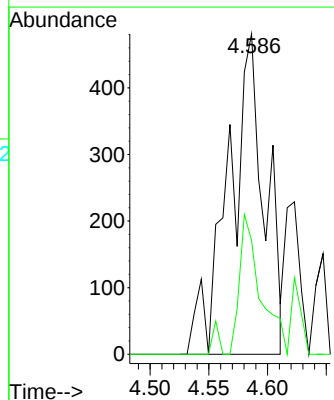
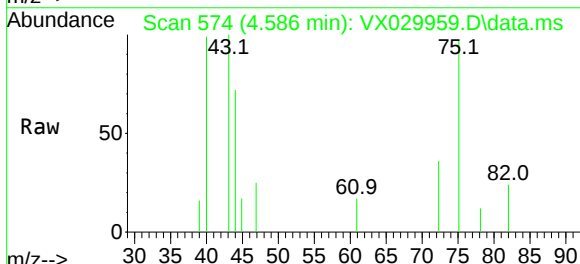
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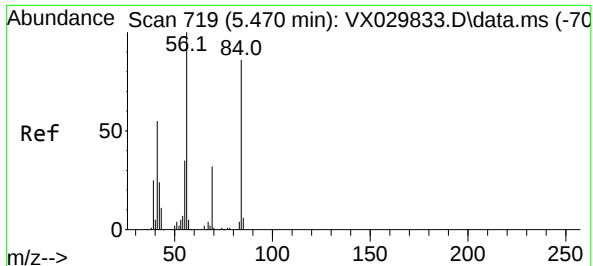
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 778    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 86.6  | 93.8  | 140.6# |
| 51       | 37.5  | 29.4  | 44.0   |
| 86       | 43.4  | 51.0  | 76.4#  |



#25  
2-Butanone  
Concen: 0.481 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.018 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1027  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 35.6  | 21.7  | 32.5# |

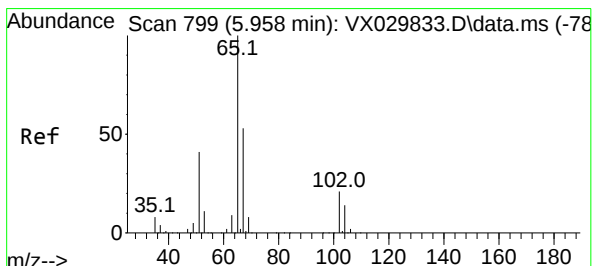
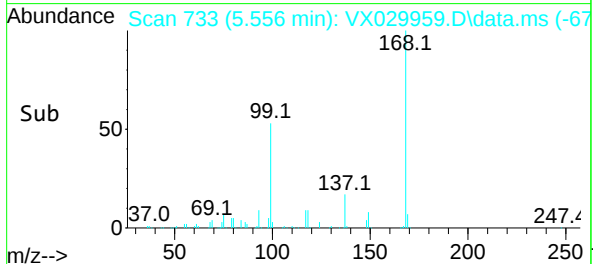
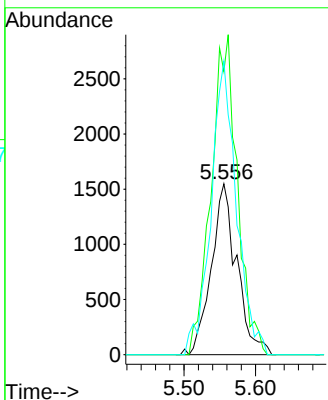
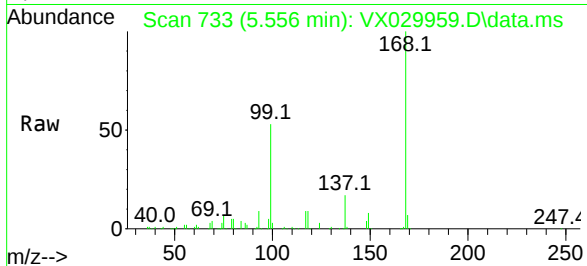




#31  
Cyclohexane  
Concen: 1.092 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

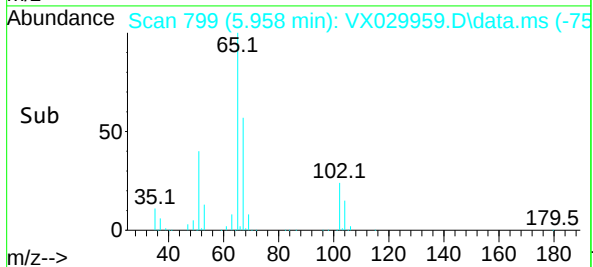
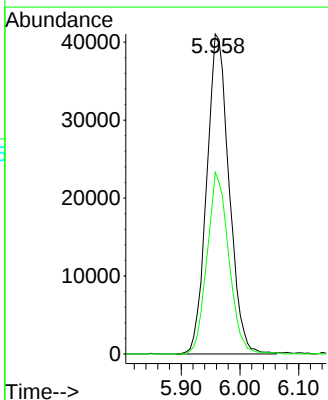
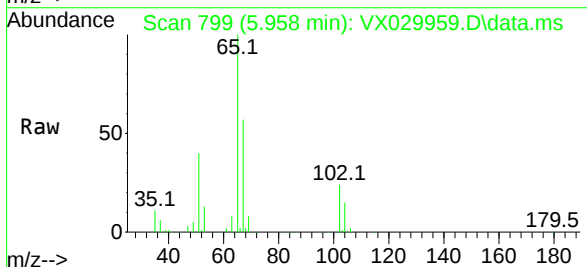
Instrument :  
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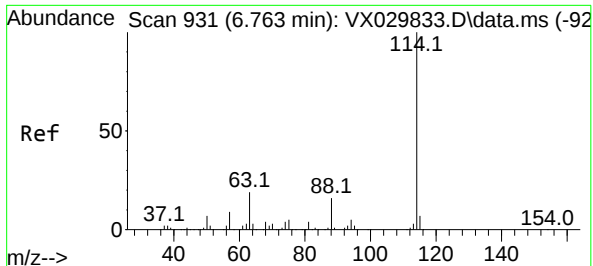
Tgt Ion: 56 Resp: 3830  
Ion Ratio Lower Upper  
56 100  
69 165.7 25.4 38.0#  
84 171.7 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 43.069 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 65 Resp: 108363  
Ion Ratio Lower Upper  
65 100  
67 55.0 0.0 109.6

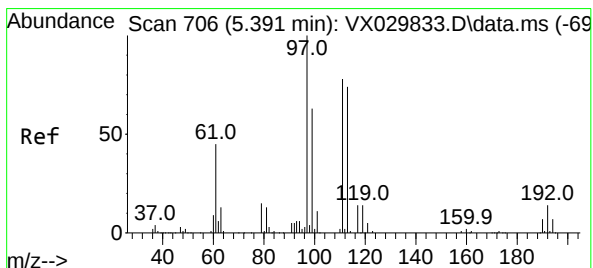
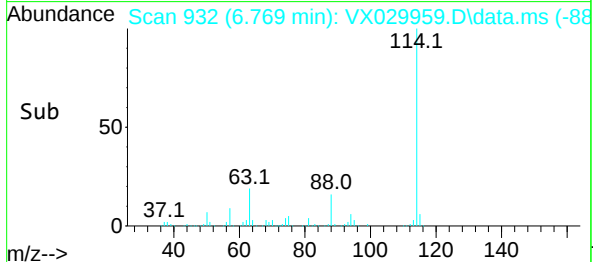
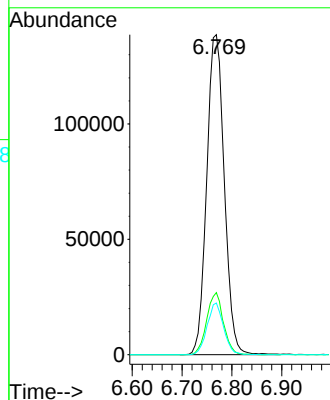
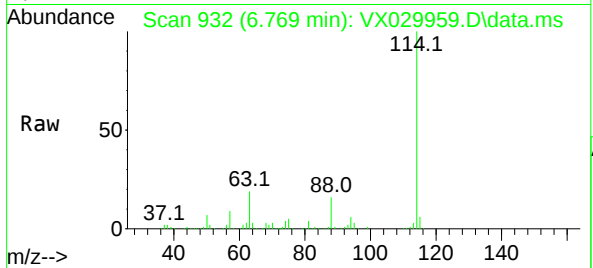




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

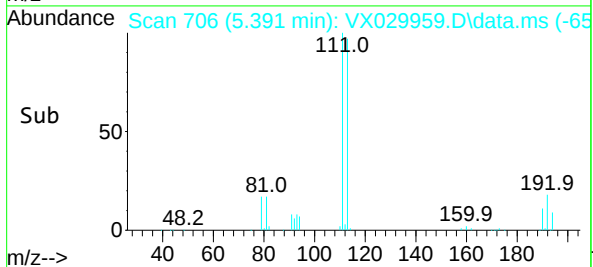
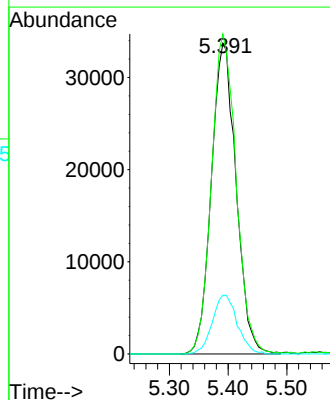
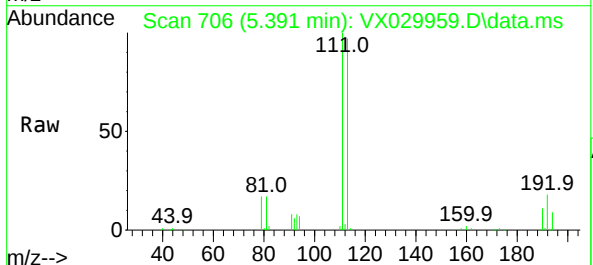
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

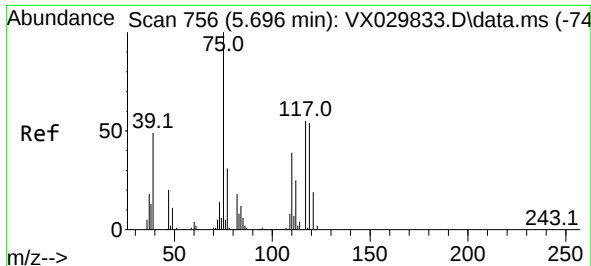
Tgt Ion:114 Resp: 339628  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 38.4  
88 16.2 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 46.423 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion:113 Resp: 98532  
Ion Ratio Lower Upper  
113 100  
111 102.9 83.2 124.8  
192 19.1 14.8 22.2

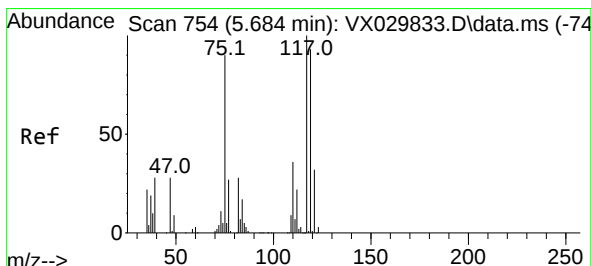
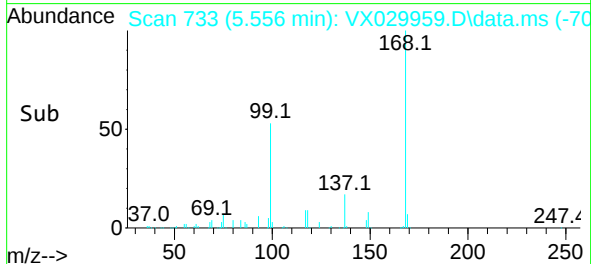
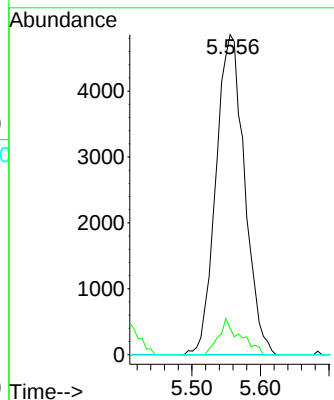
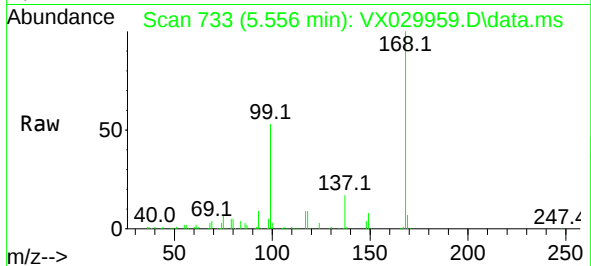




#36  
 1,1-Dichloropropene  
 Concen: 4.980 ug/l  
 RT: 5.556 min Scan# 71  
 Delta R.T. -0.140 min  
 Lab File: VX029959.D  
 Acq: 07 Jul 2022 16:51

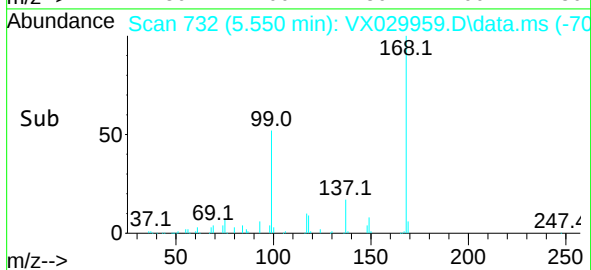
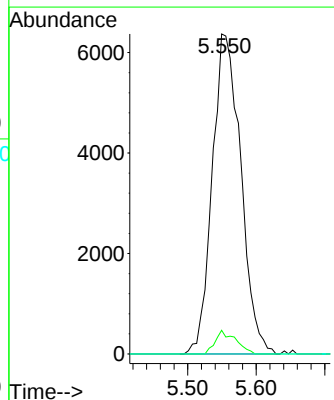
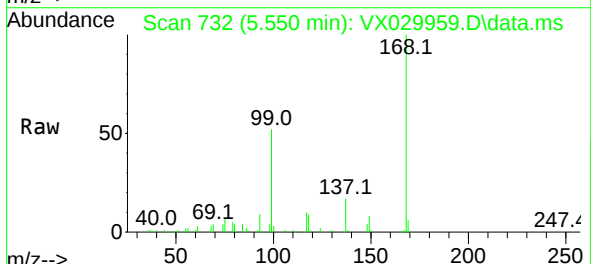
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-04

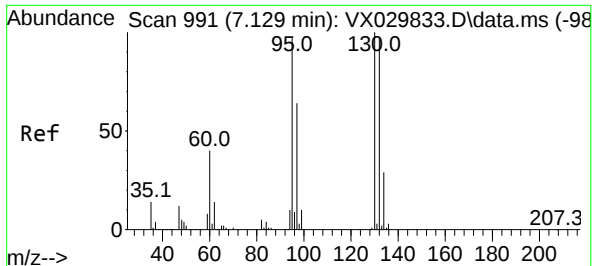
Tgt Ion: 75 Resp: 14059  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 19.3 57.9#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 7.520 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.134 min  
 Lab File: VX029959.D  
 Acq: 07 Jul 2022 16:51

Tgt Ion: 117 Resp: 18394  
 Ion Ratio Lower Upper  
 117 100  
 119 7.4 74.1 111.1#  
 121 0.0 25.8 38.8#

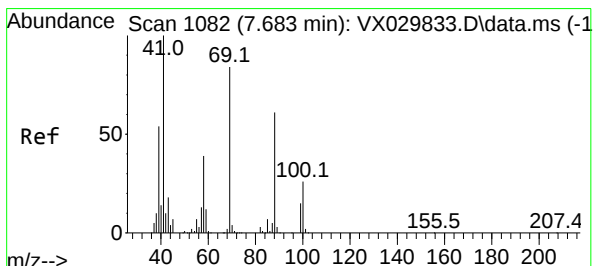
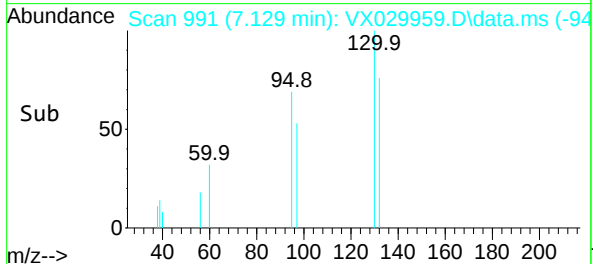
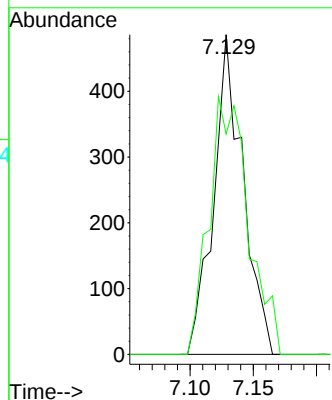
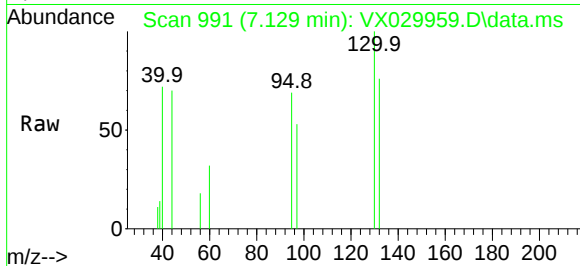




#44  
Trichloroethene  
Concen: 0.319 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

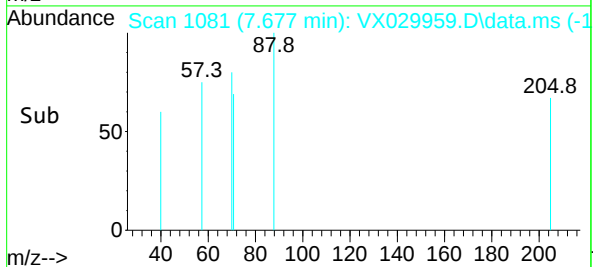
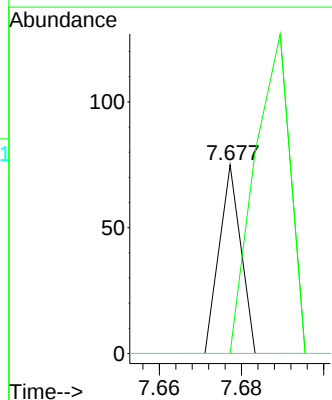
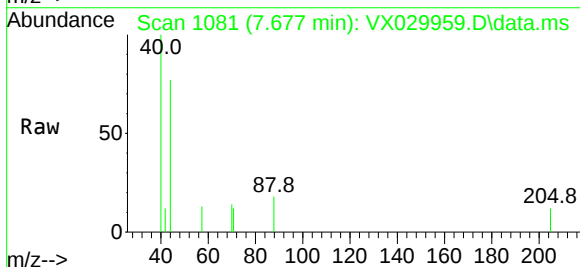
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

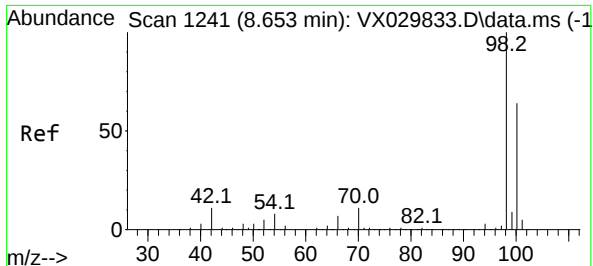
Tgt Ion:130 Resp: 785  
Ion Ratio Lower Upper  
130 100  
95 68.9 0.0 194.8



#49  
1,4-Dioxane  
Concen: 0.414 ug/l  
RT: 7.677 min Scan# 1081  
Delta R.T. -0.006 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 88 Resp: 27  
Ion Ratio Lower Upper  
88 100  
43 281.5 23.8 35.8#  
58 0.0 53.8 80.6#

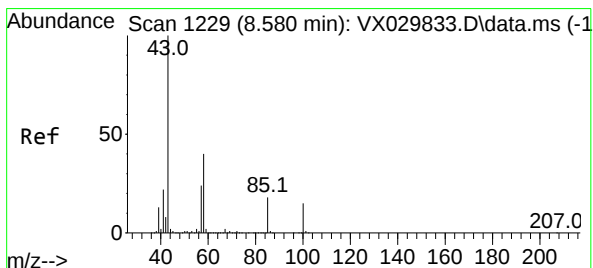
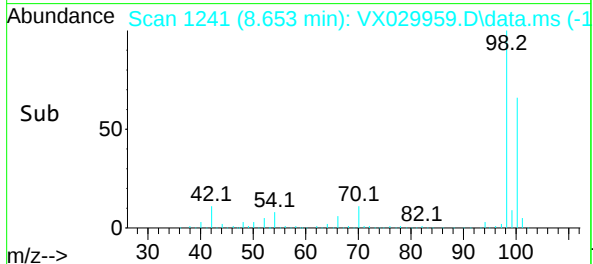
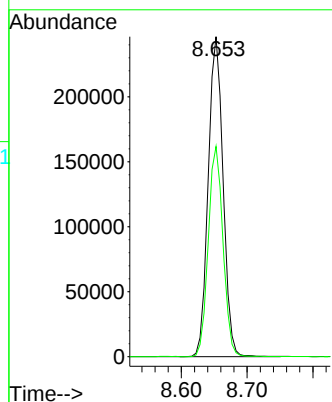
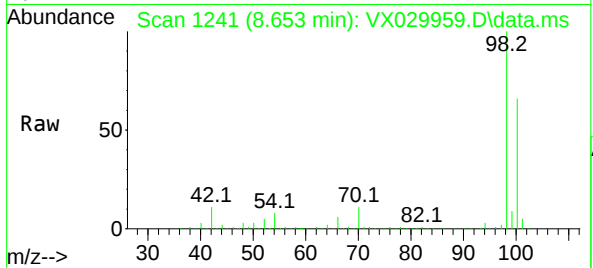




#50  
Toluene-d8  
Concen: 48.649 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

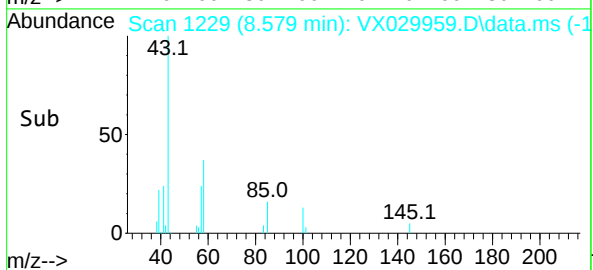
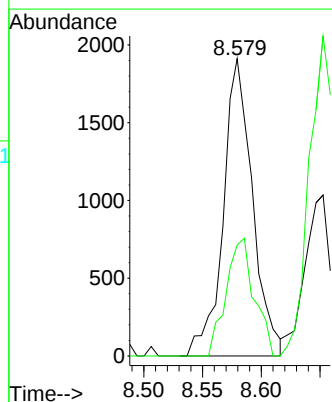
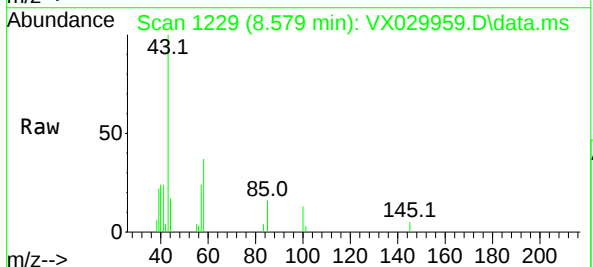
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

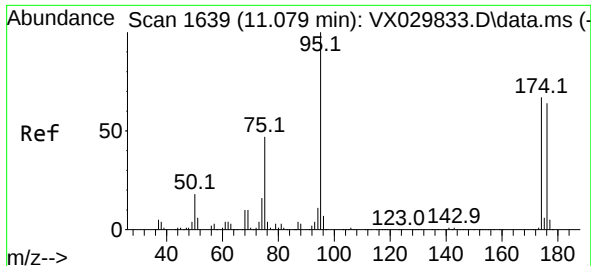
Tgt Ion: 98 Resp: 387365  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.3 78.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.865 ug/l  
RT: 8.579 min Scan# 1229  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 43 Resp: 3315  
Ion Ratio Lower Upper  
43 100  
58 38.1 31.4 47.2

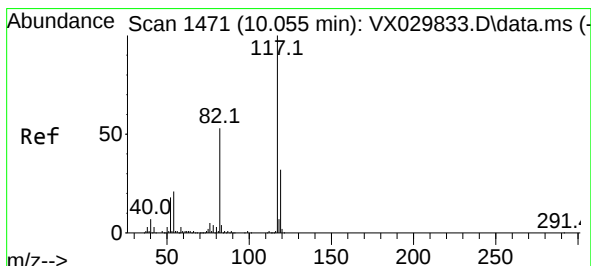
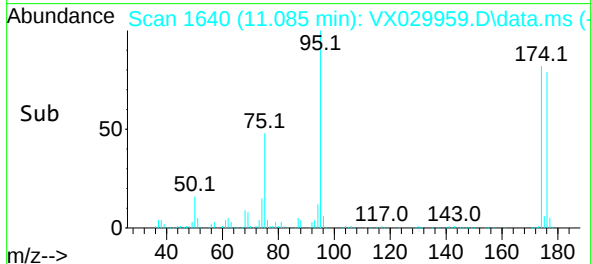
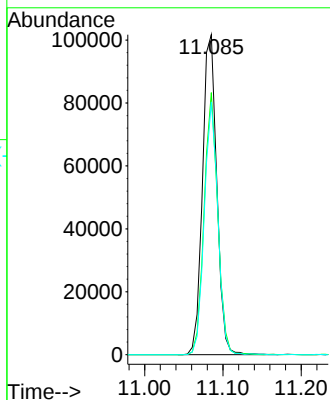
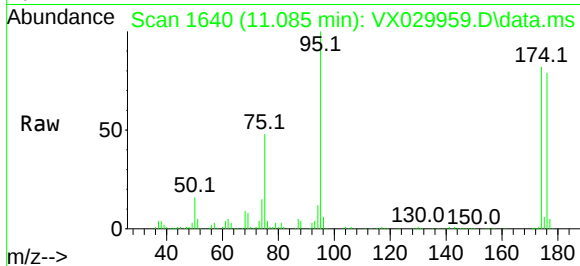




#62  
4-Bromofluorobenzene  
Concen: 45.743 ug/l  
RT: 11.085 min Scan# 1639  
Delta R.T. 0.006 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

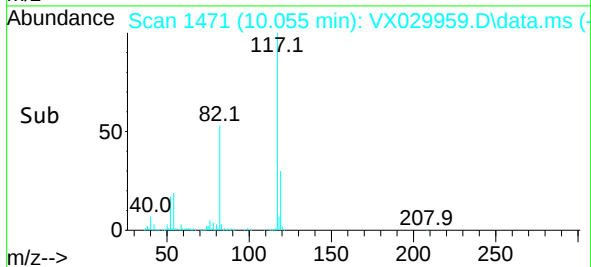
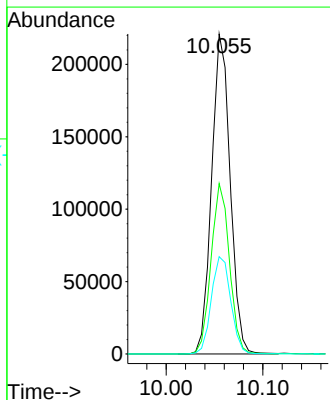
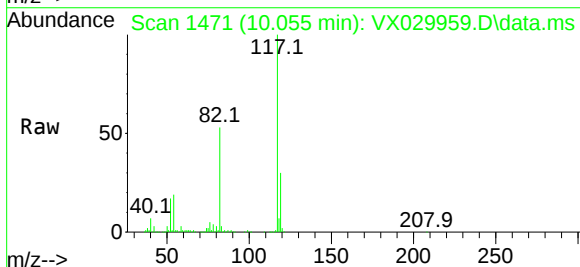
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

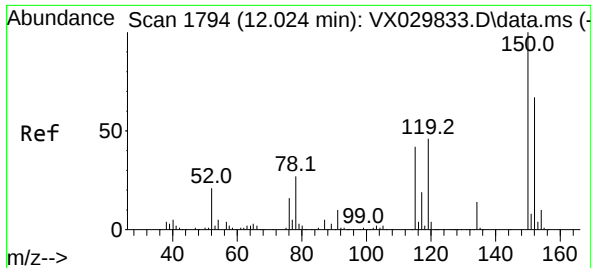
Tgt Ion: 95 Resp: 128749  
Ion Ratio Lower Upper  
95 100  
174 77.8 0.0 149.0  
176 75.2 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 117 Resp: 294012  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.7 64.1  
119 30.4 25.4 38.2

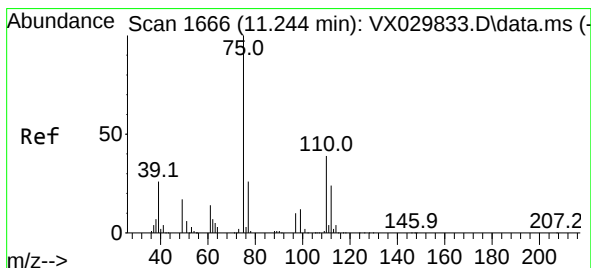
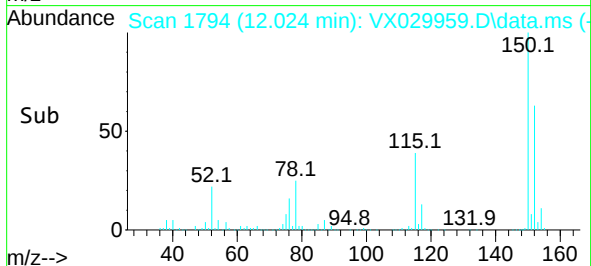
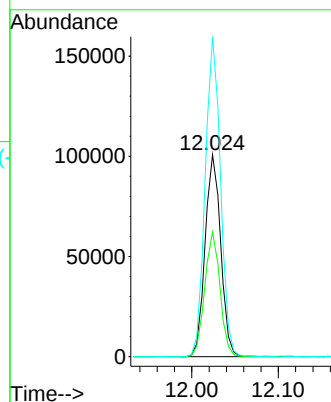
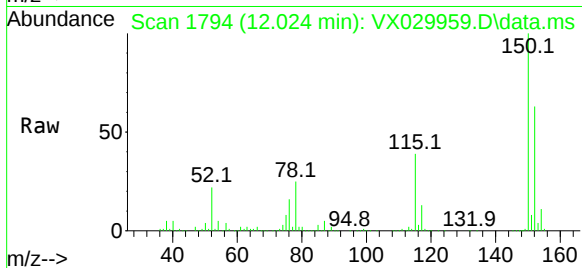




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

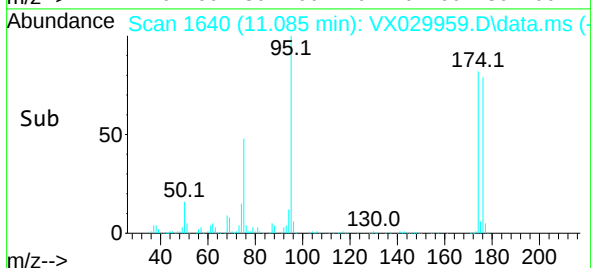
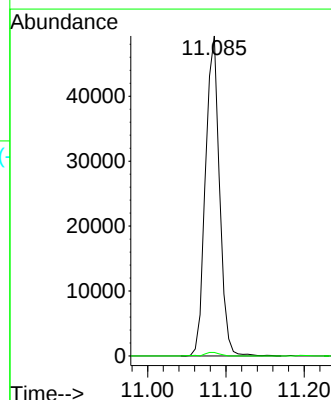
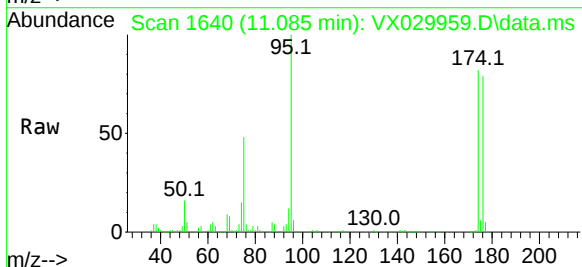
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-04

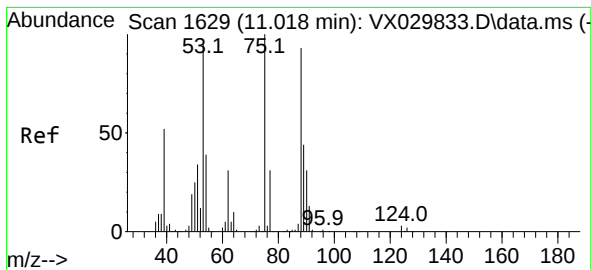
Tgt Ion:152 Resp: 126290  
Ion Ratio Lower Upper  
152 100  
115 60.4 40.5 121.5  
150 155.2 0.0 347.0



#76  
1,2,3-Trichloropropane  
Concen: 20.290 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX029959.D  
Acq: 07 Jul 2022 16:51

Tgt Ion: 75 Resp: 61340  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.8 59.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.435 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.067 min  
 Lab File: VX029959.D  
 Acq: 07 Jul 2022 16:51

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-04

Tgt Ion: 75 Resp: 61340  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 74.2 111.4#  
 89 0.0 34.8 52.2#

