

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072021\  
 Data File : VD069768.D  
 Acq On : 20 Jul 2021 14:25  
 Operator : VA/SY  
 Sample : M3046-02  
 Misc : 6.12G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 21 03:25:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 14 06:00:31 2021  
 Response via : Initial Calibration

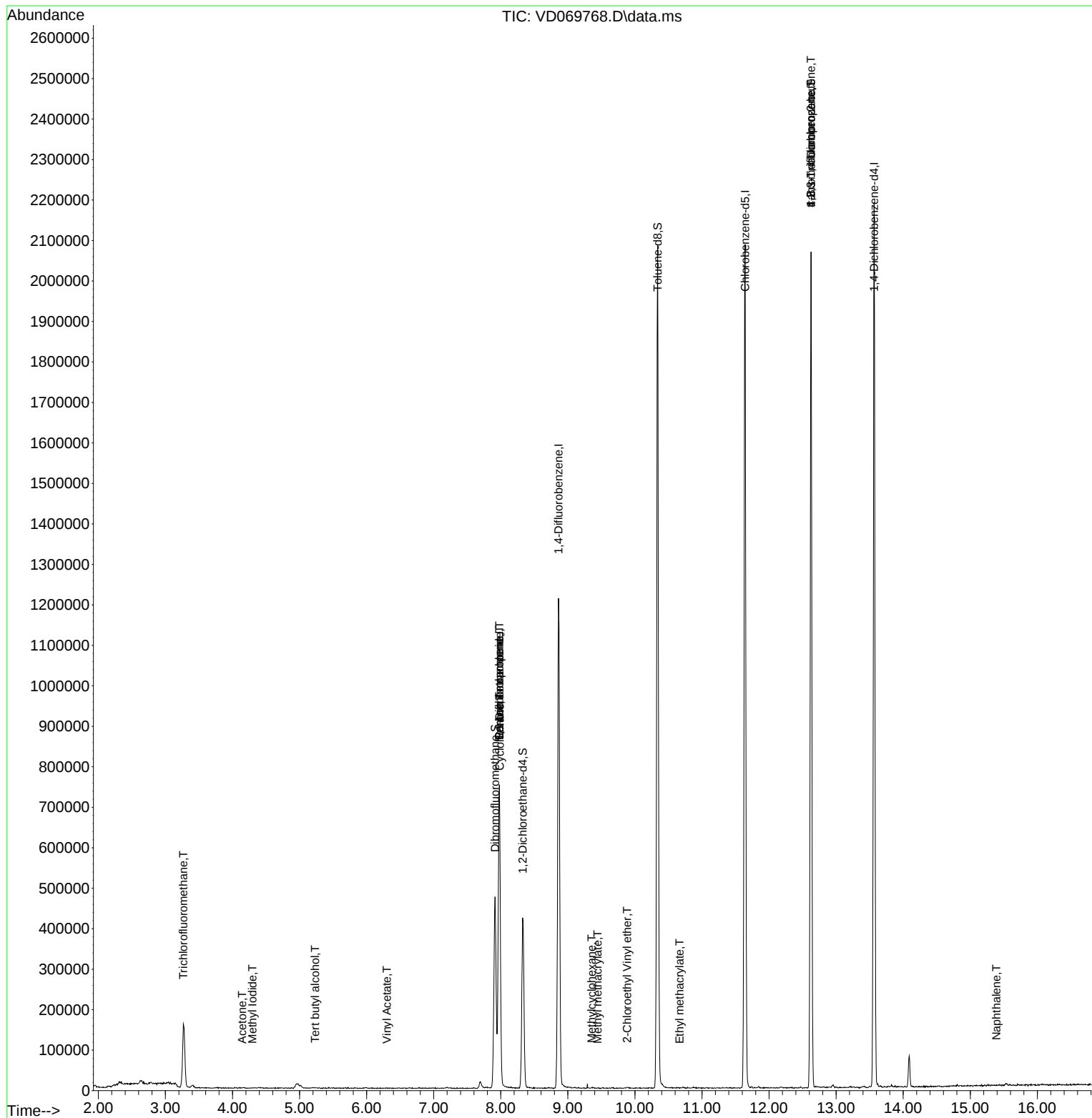
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 516286              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 1029924             | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643         | 117  | 1226044             | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 561603              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 332227              | 51.536    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 103.080% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 347781              | 50.333    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 100.660% |           |        |          |
| 50) Toluene-d8                | 10.337         | 98   | 1396683             | 52.030    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.060% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 597826              | 66.777    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 133.560% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.208          | 50   | 1360                | Below Cal | #      | 78       |
| 5) Bromomethane               | 2.779          | 94   | 2651                | Below Cal | #      | 72       |
| 7) Trichlorofluoromethane     | 3.267          | 101  | 169800              | 17.145    | ug/l   | 97       |
| 10) Methyl Iodide             | 4.297          | 142  | 697                 | 2.572     | ug/l   | # 67     |
| 11) Tert butyl alcohol        | 5.232          | 59   | 1944                | 2.257     | ug/l   | # 88     |
| 16) Acetone                   | 4.144          | 43   | 1057                | 13.850    | ug/l   | # 79     |
| 18) Methyl Acetate            | 4.702          | 43   | 66                  | Below Cal | #      | 49       |
| 20) Methylene Chloride        | 4.955          | 84   | 7746                | Below Cal | #      | 95       |
| 23) Vinyl Acetate             | 6.302          | 43   | 101                 | 15.434    | ug/l   | # 72     |
| 31) Cyclohexane               | 7.985          | 56   | 12271               | 1.514     | ug/l   | # 1      |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 47165               | 4.439     | ug/l   | # 50     |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 55829               | 5.738     | ug/l   | # 17     |
| 39) Methylcyclohexane         | 9.355          | 83   | 390                 | 1.988     | ug/l   | # 69     |
| 48) Methyl methacrylate       | 9.443          | 41   | 57                  | 1.117     | ug/l   | # 13     |
| 56) Ethyl methacrylate        | 10.667         | 69   | 59                  | 1.673     | ug/l   | # 7      |
| 58) 2-Chloroethyl Vinyl ether | 9.885          | 63   | 74                  | 9.383     | ug/l   | # 49     |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 295907              | 54.237    | ug/l   | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 295907              | 145.759   | ug/l   | # 15     |
| 95) Naphthalene               | 15.390         | 128  | 517                 | 2.233     | ug/l   | # 69     |
| -----                         |                |      |                     |           |        |          |

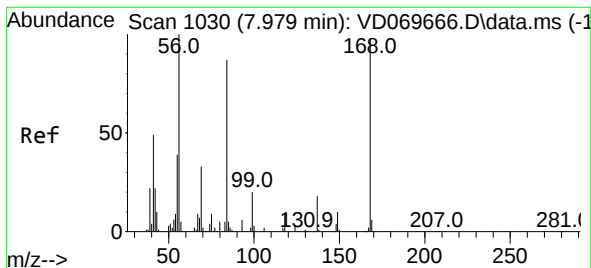
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 21 03:25:19 2021  
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Quant Title : SW846 8260  
QLast Update : Wed Jul 14 06:00:31 2021  
Response via : Initial Calibration

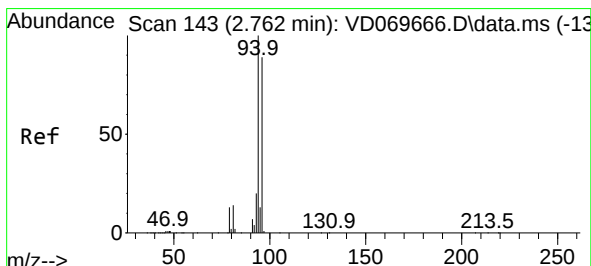
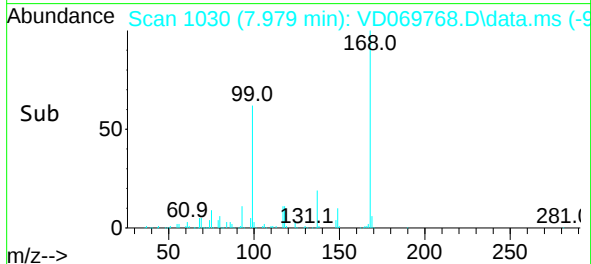
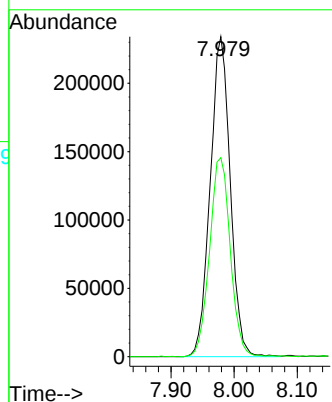
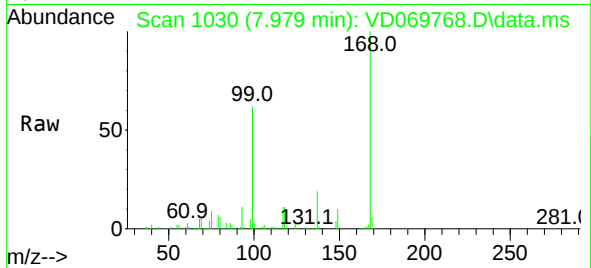




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

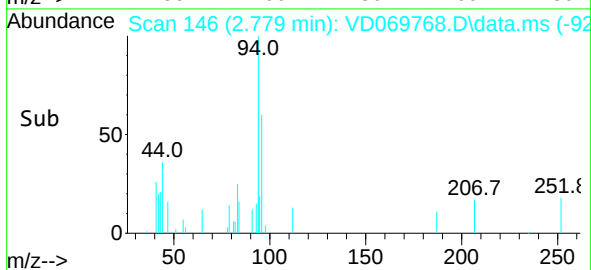
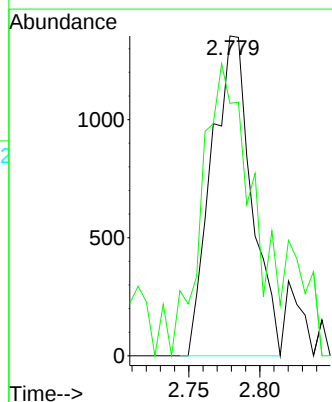
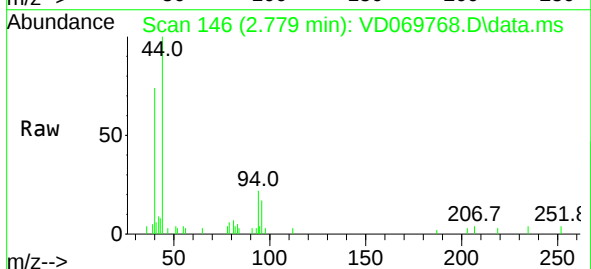
Instrument :  
MSVOA\_D  
ClientSampleId :

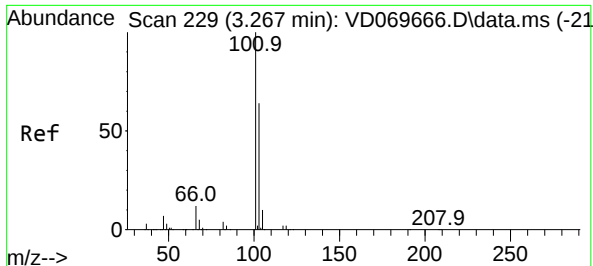
Tgt Ion:168 Resp: 516286  
Ion Ratio Lower Upper  
168 100  
99 62.2 51.8 77.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion: 94 Resp: 2651  
Ion Ratio Lower Upper  
94 100  
96 63.1 71.2 106.8#

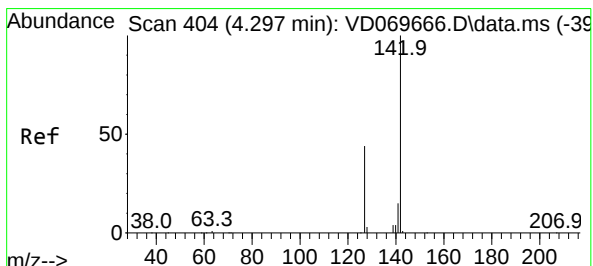
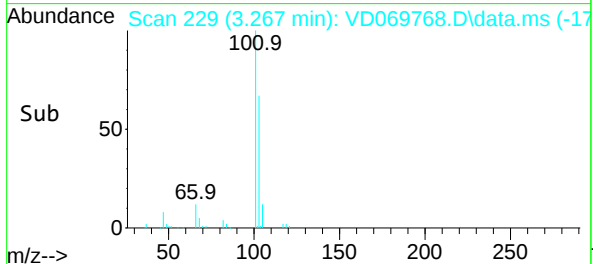
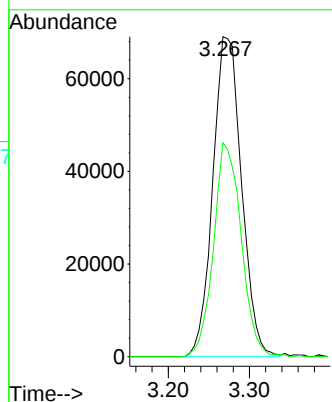
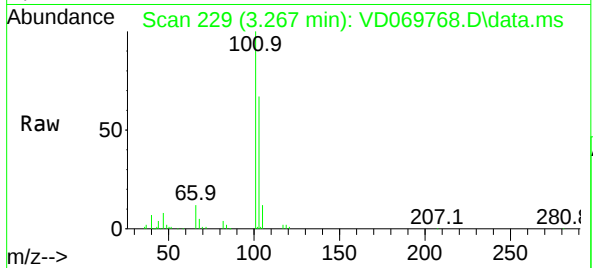




#7  
Trichlorofluoromethane  
Concen: 17.145 ug/l  
RT: 3.267 min Scan# 229  
Delta R.T. 0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

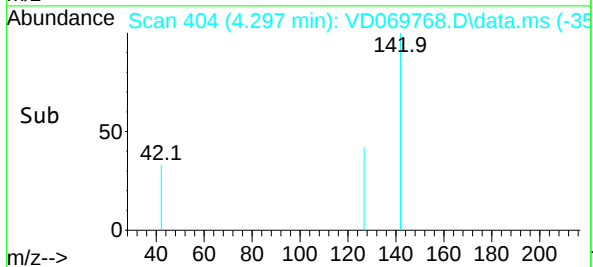
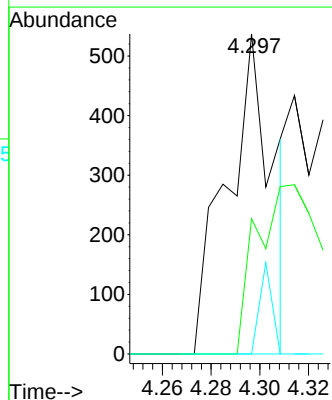
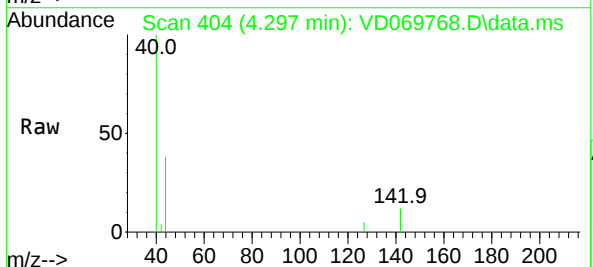
Instrument :  
MSVOA\_D  
ClientSampled :

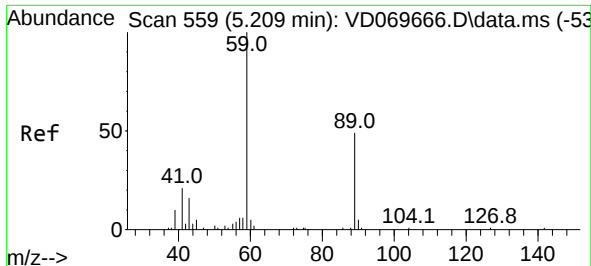
Tgt Ion:101 Resp: 169800  
Ion Ratio Lower Upper  
101 100  
103 66.9 51.4 77.0



#10  
Methyl Iodide  
Concen: 2.572 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion:142 Resp: 697  
Ion Ratio Lower Upper  
142 100  
127 69.9 36.1 54.1#  
141 7.7 11.6 17.4#

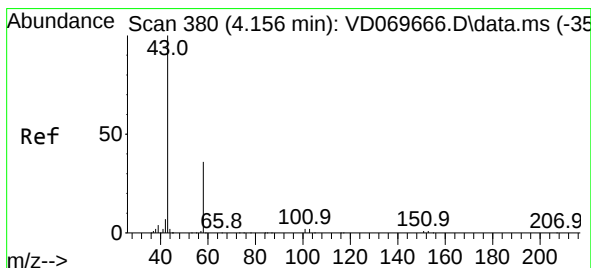
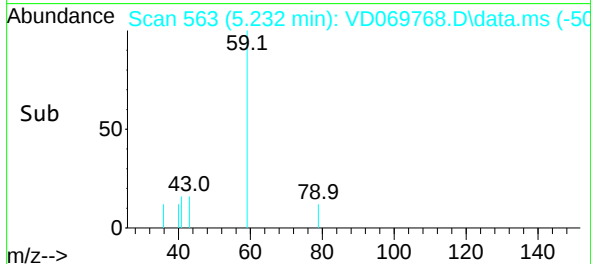
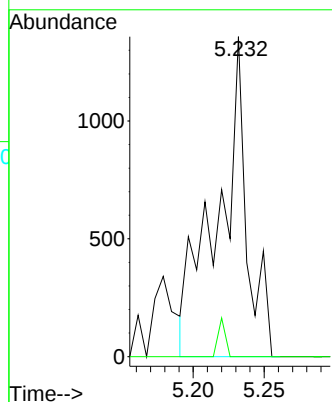
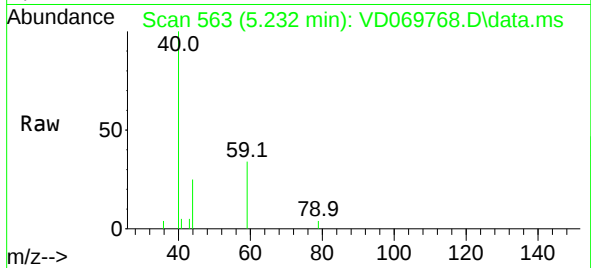




#11  
Tert butyl alcohol  
Concen: 2.257 ug/l  
RT: 5.232 min Scan# 563  
Delta R.T. 0.023 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

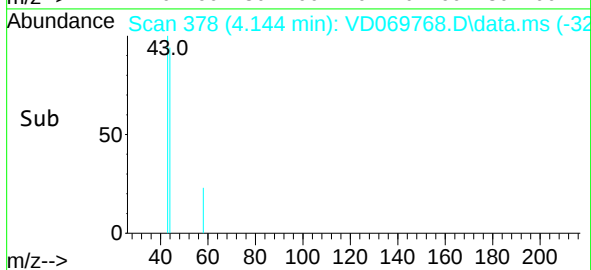
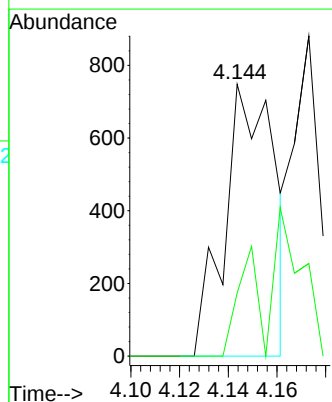
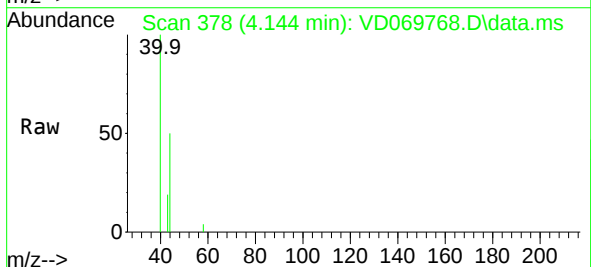
Instrument :  
MSVOA\_D  
ClientSampled :

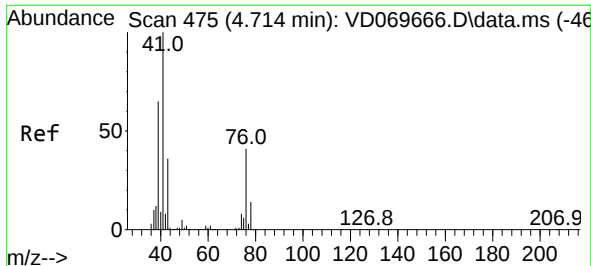
Tgt Ion: 59 Resp: 1944  
Ion Ratio Lower Upper  
59 100  
57 3.0 5.7 8.5#



#16  
Acetone  
Concen: 13.850 ug/l  
RT: 4.144 min Scan# 378  
Delta R.T. -0.012 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion: 43 Resp: 1057  
Ion Ratio Lower Upper  
43 100  
58 23.3 28.6 42.8#

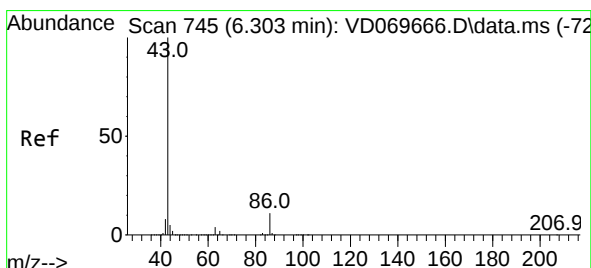
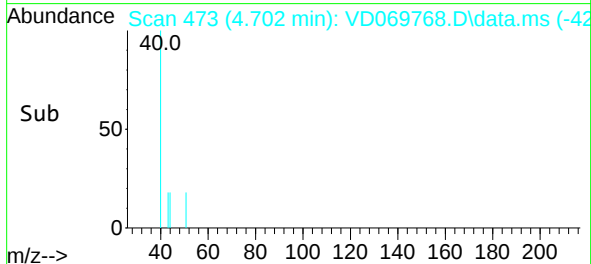
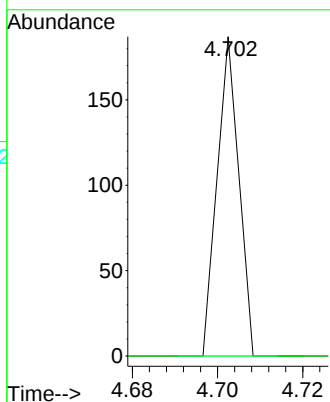
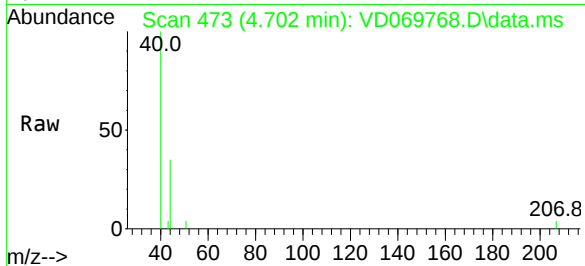




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.702 min Scan# 473  
Delta R.T. -0.012 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

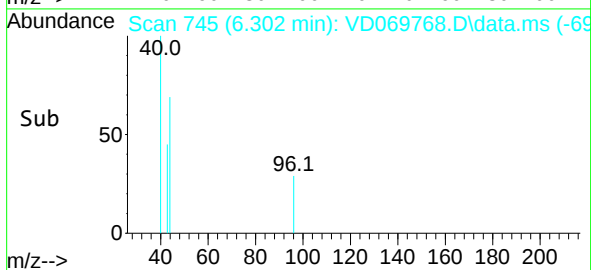
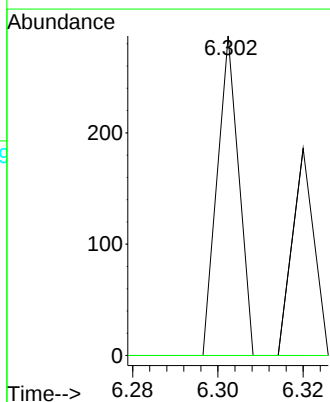
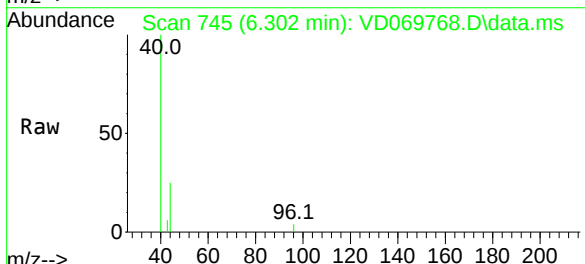
Instrument :  
MSVOA\_D  
ClientSampled :

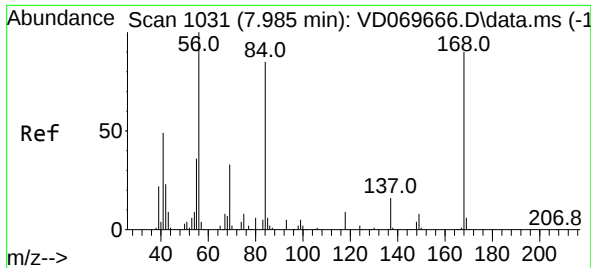
Tgt Ion: 43 Resp: 66  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.6 30.8#



#23  
Vinyl Acetate  
Concen: 15.434 ug/l  
RT: 6.302 min Scan# 745  
Delta R.T. -0.001 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

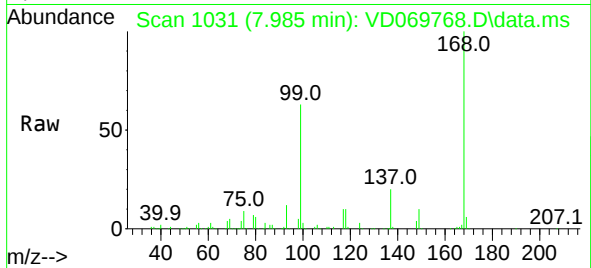
Tgt Ion: 43 Resp: 101  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.6 12.8#



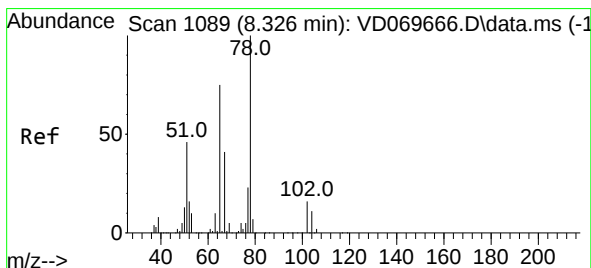
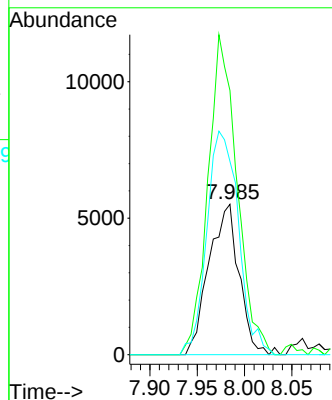
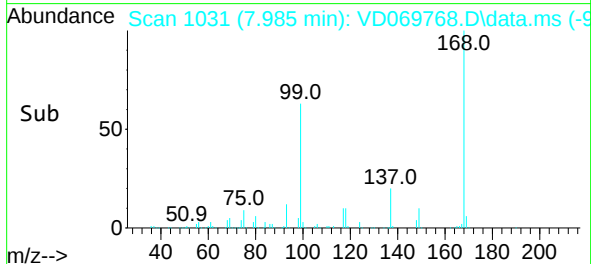


#31  
Cyclohexane  
Concen: 1.514 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

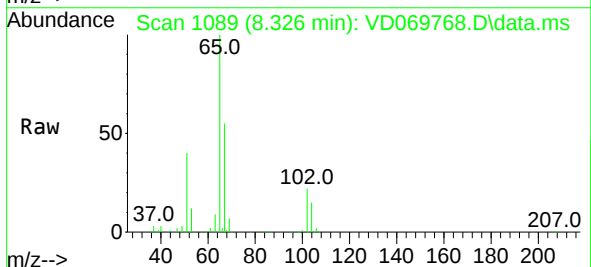
Instrument :  
MSVOA\_D  
ClientSampleId :



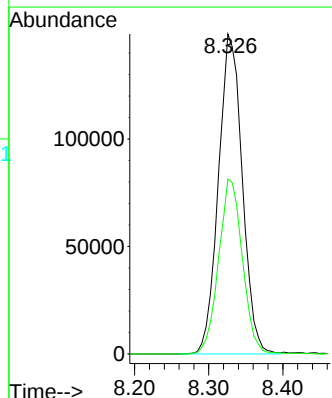
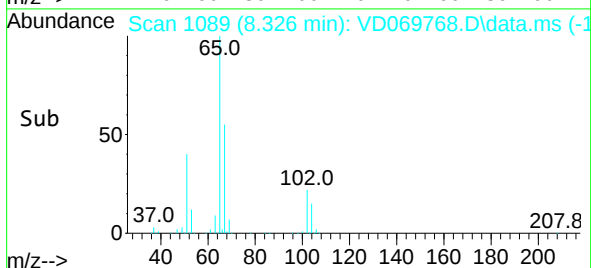
Tgt Ion: 56 Resp: 12271  
Ion Ratio Lower Upper  
56 100  
69 175.7 26.6 39.8#  
84 128.5 68.2 102.2#

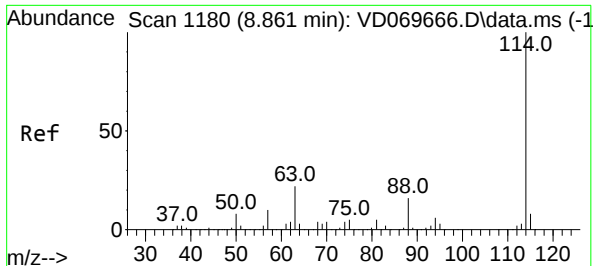


#33  
1,2-Dichloroethane-d4  
Concen: 51.536 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25



Tgt Ion: 65 Resp: 332227  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 107.2

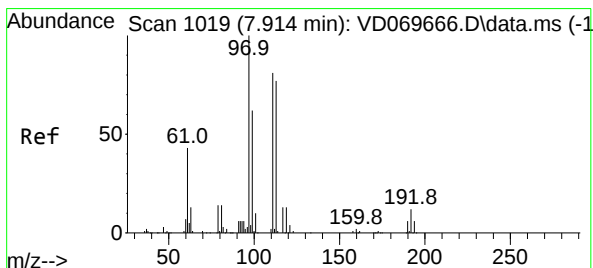
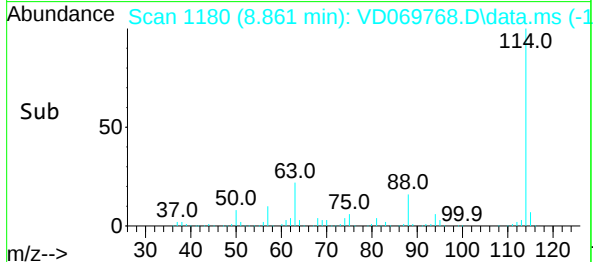
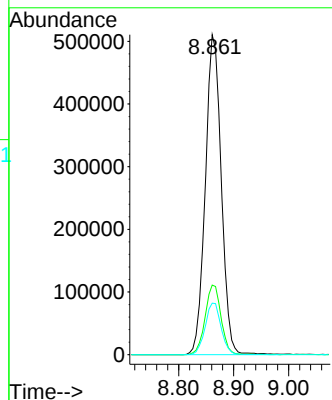
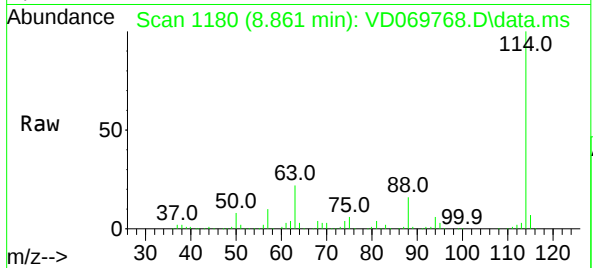




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

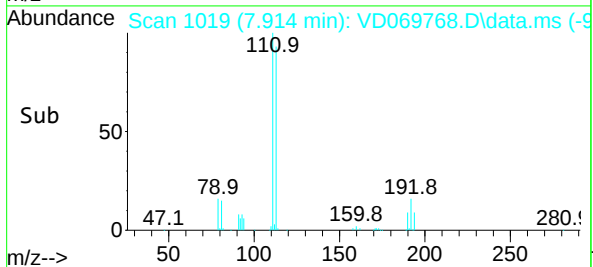
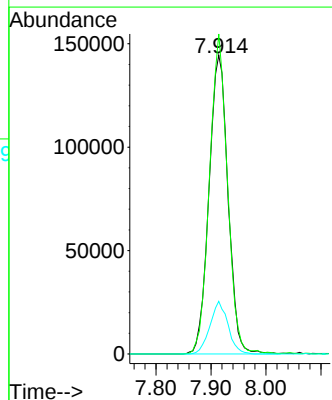
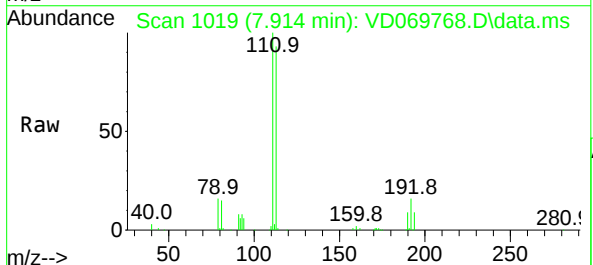
Instrument :  
MSVOA\_D  
ClientSampleId :

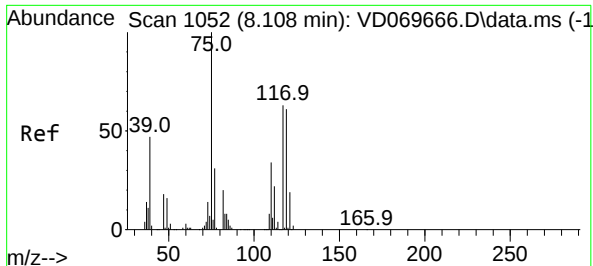
Tgt Ion:114 Resp: 1029924  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 43.4  
88 16.1 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 50.333 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion:113 Resp: 347781  
Ion Ratio Lower Upper  
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111 101.1 82.6 123.8  
192 16.7 12.7 19.1

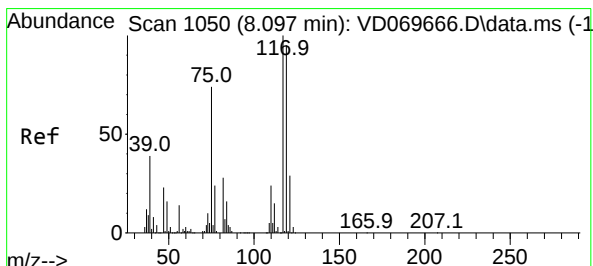
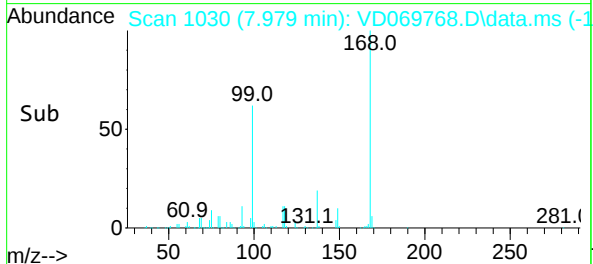
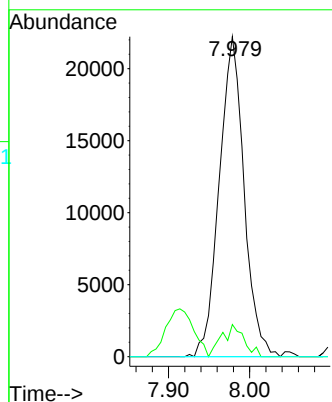
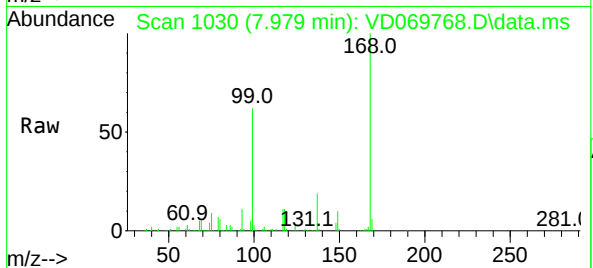




#36  
1,1-Dichloropropene  
Concen: 4.439 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

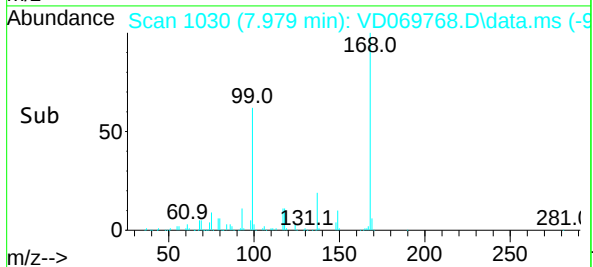
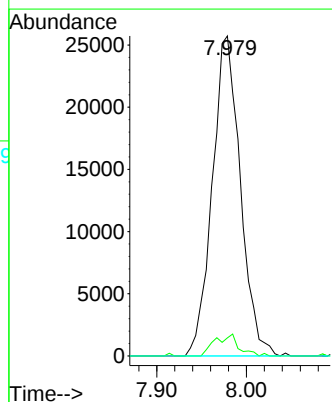
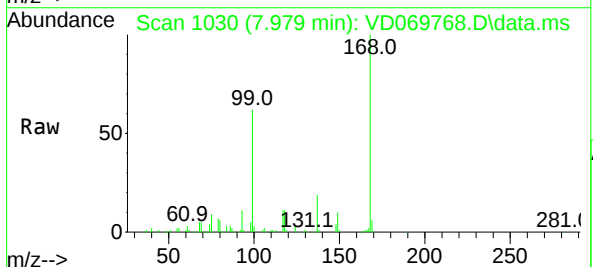
Instrument :  
MSVOA\_D  
ClientSampled :

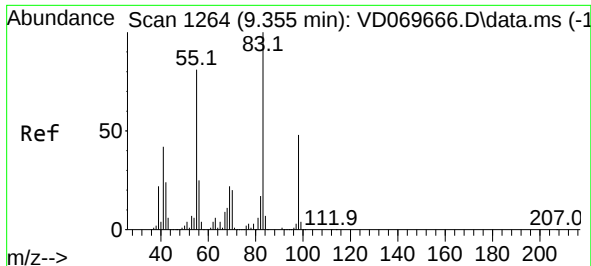
Tgt Ion: 75 Resp: 47165  
Ion Ratio Lower Upper  
75 100  
110 8.9 16.7 50.0#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 5.738 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion: 117 Resp: 55829  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.7 113.5#  
121 0.0 23.0 34.6#





#39

Methylcyclohexane

Concen: 1.988 ug/l

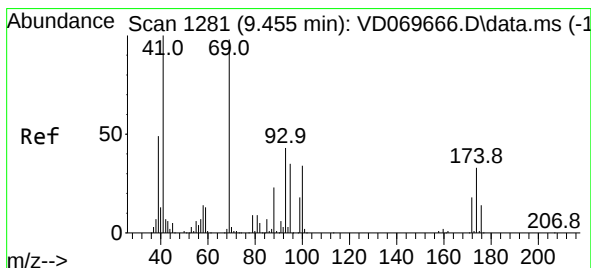
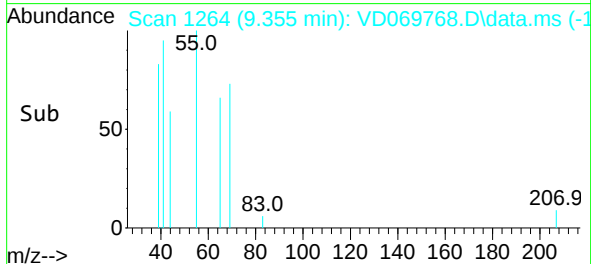
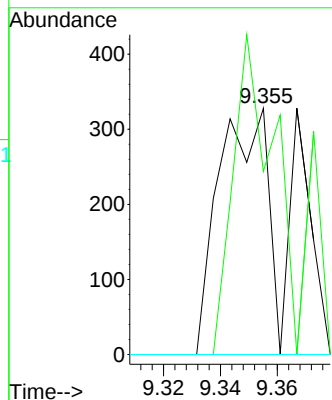
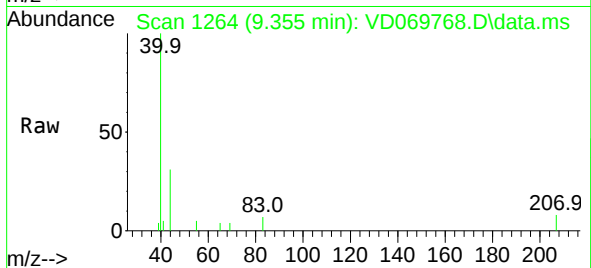
RT: 9.355 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VD069768.D

Acq: 20 Jul 2021 14:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 390   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 74.4  | 64.6  | 97.0  |
| 98       | 0.0   | 38.4  | 57.6# |



#48

Methyl methacrylate

Concen: 1.117 ug/l

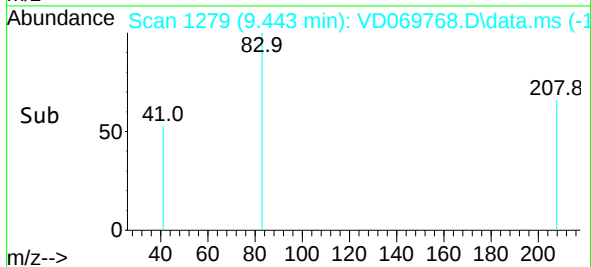
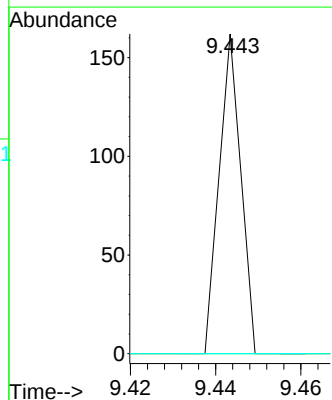
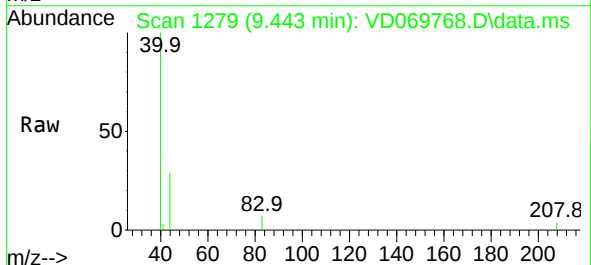
RT: 9.443 min Scan# 1279

Delta R.T. -0.012 min

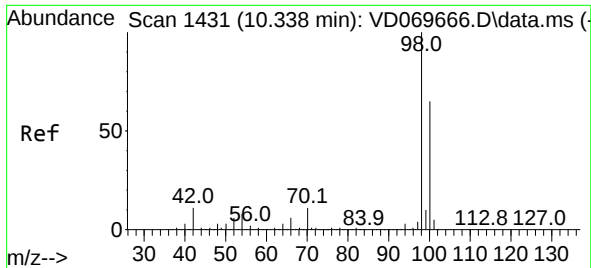
Lab File: VD069768.D

Acq: 20 Jul 2021 14:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 57     |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 71.6  | 107.4# |
| 39       | 0.0   | 36.7  | 55.1#  |



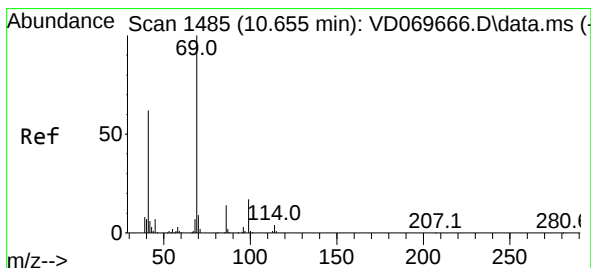
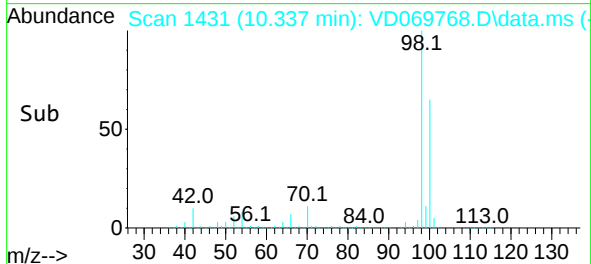
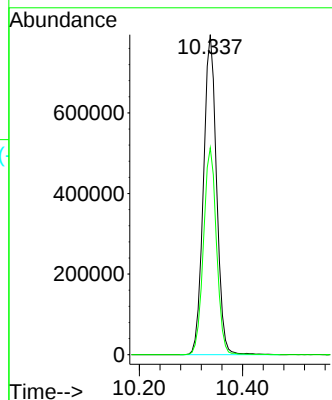
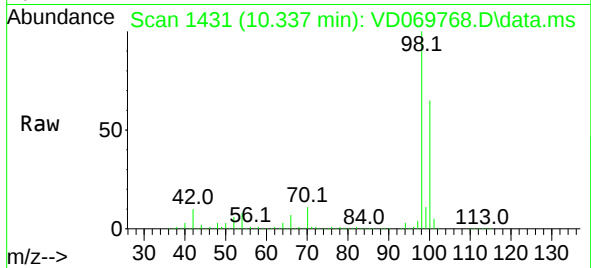
Instrument :  
MSVOA\_D  
ClientSampled :



#50  
Toluene-d8  
Concen: 52.030 ug/l  
RT: 10.337 min Scan# 1431  
Delta R.T. -0.001 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

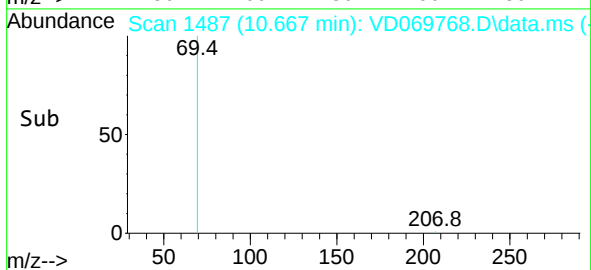
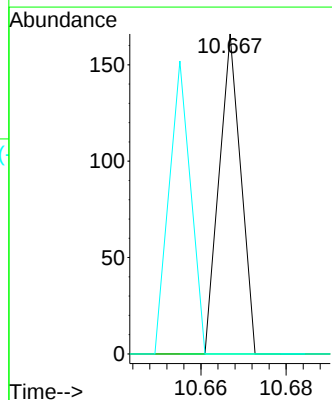
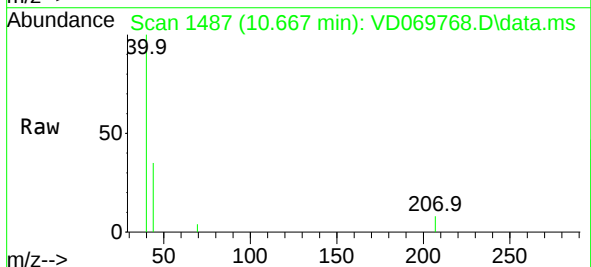
Instrument :  
MSVOA\_D  
ClientSampled :

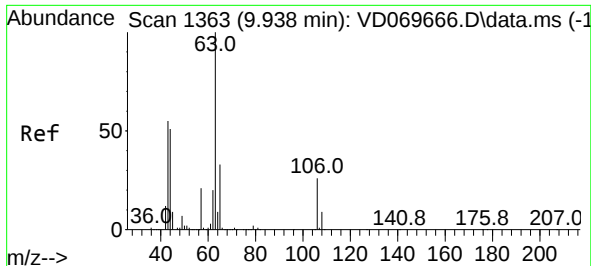
Tgt Ion: 98 Resp: 1396683  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.2



#56  
Ethyl methacrylate  
Concen: 1.673 ug/l  
RT: 10.667 min Scan# 1487  
Delta R.T. 0.012 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion: 69 Resp: 59  
Ion Ratio Lower Upper  
69 100  
41 0.0 49.5 74.3#  
39 91.5 22.5 33.7#

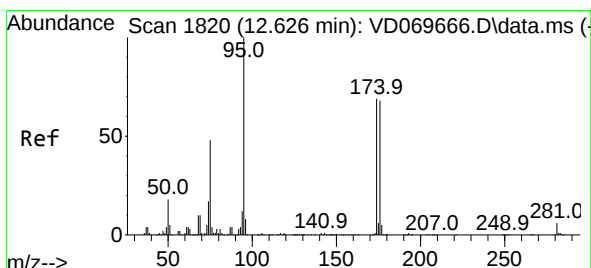
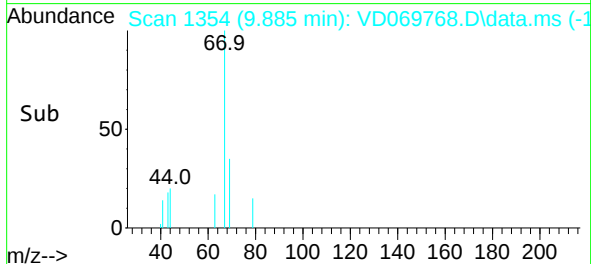
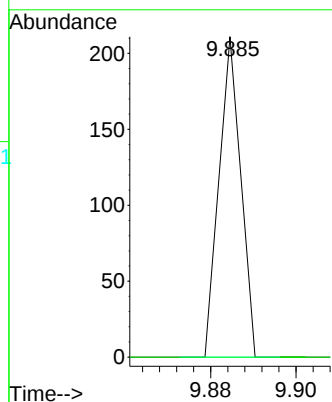
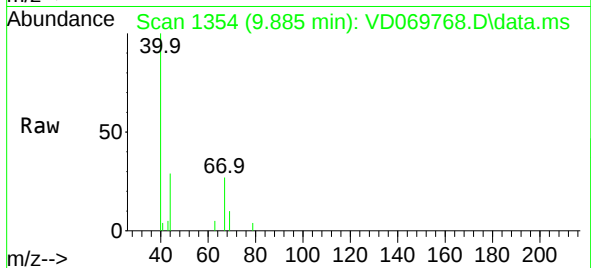




#58  
2-Chloroethyl Vinyl ether  
Concen: 9.383 ug/l  
RT: 9.885 min Scan# 1354  
Delta R.T. -0.053 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

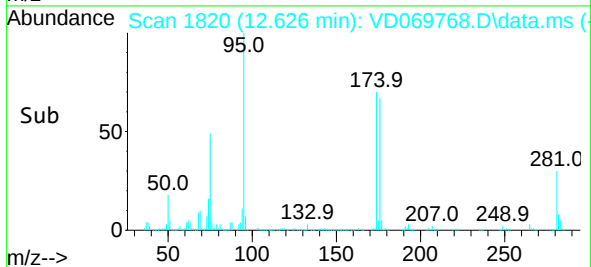
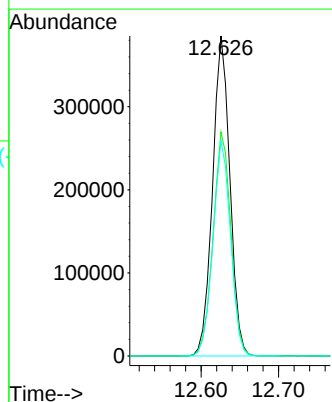
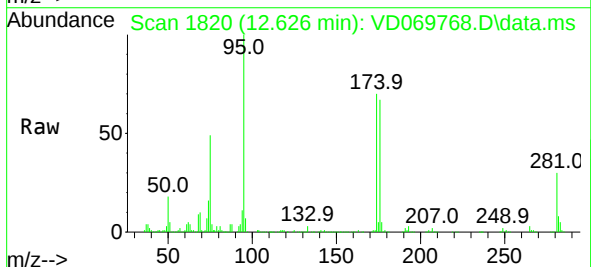
Instrument :  
MSVOA\_D  
ClientSampled :

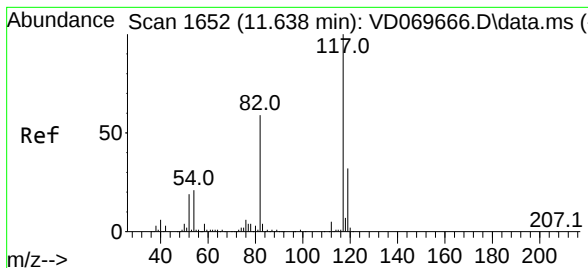
Tgt Ion: 63 Resp: 74  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.1 31.7#



#62  
4-Bromofluorobenzene  
Concen: 66.777 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

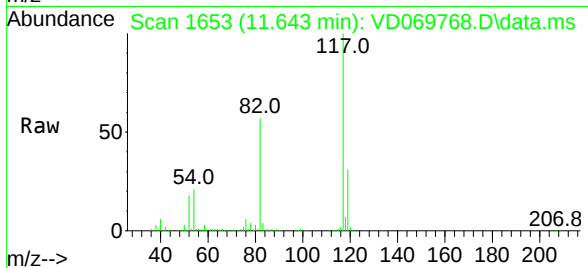
Tgt Ion: 95 Resp: 597826  
Ion Ratio Lower Upper  
95 100  
174 72.0 0.0 140.0  
176 68.1 0.0 136.2



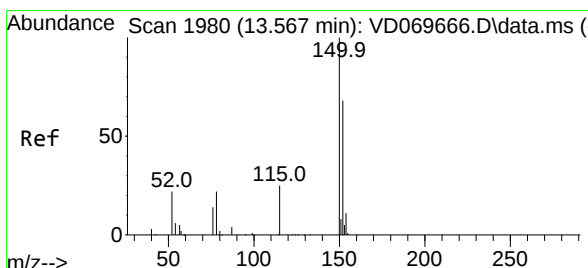
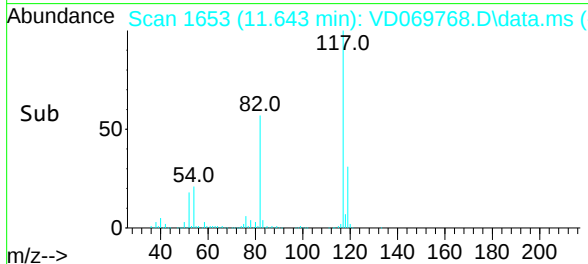
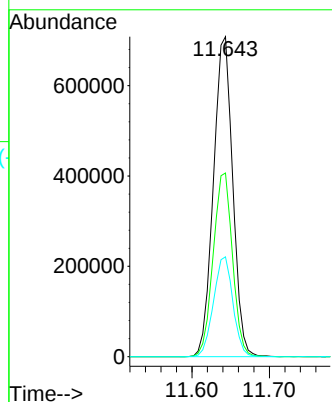


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. 0.005 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Instrument :  
MSVOA\_D  
ClientSampleId :

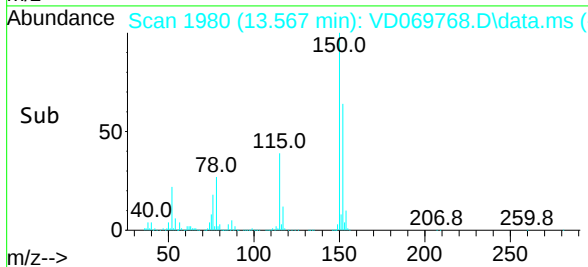
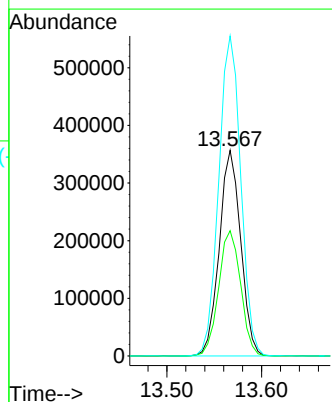
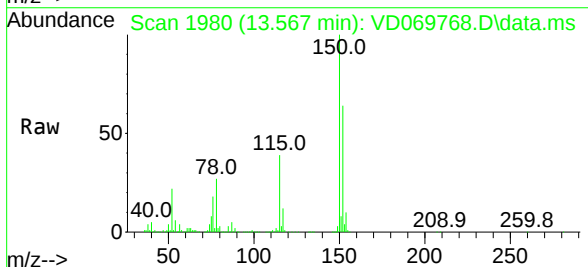


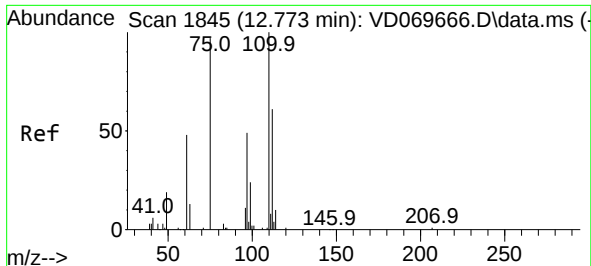
Tgt Ion:117 Resp: 1226044  
Ion Ratio Lower Upper  
117 100  
82 57.4 47.4 71.2  
119 31.2 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Tgt Ion:152 Resp: 561603  
Ion Ratio Lower Upper  
152 100  
115 62.5 31.7 95.1  
150 159.9 0.0 350.4

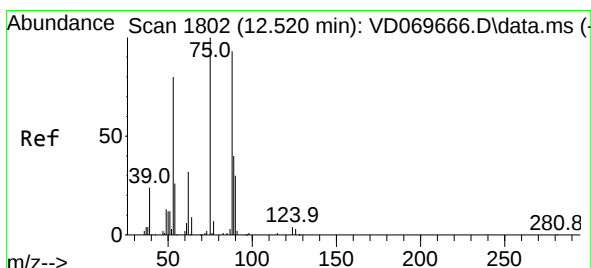
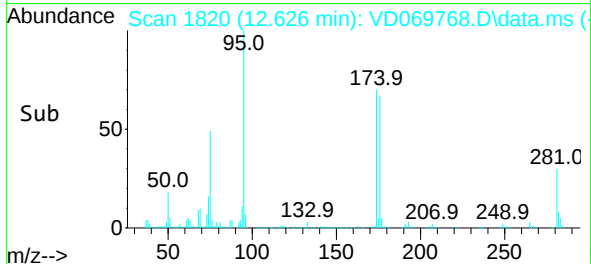
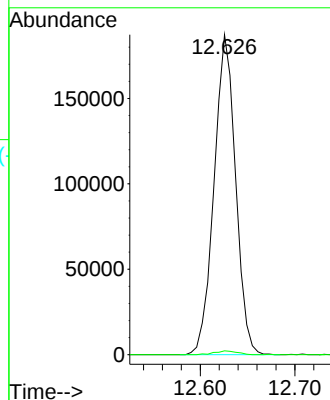
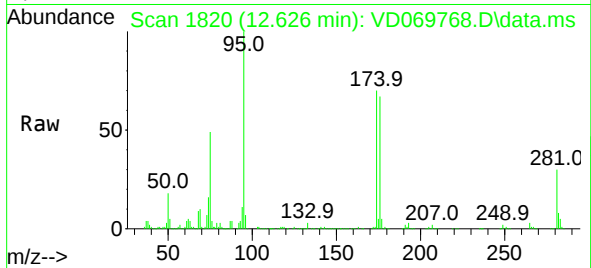




#76  
1,2,3-Trichloropropane  
Concen: 54.237 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

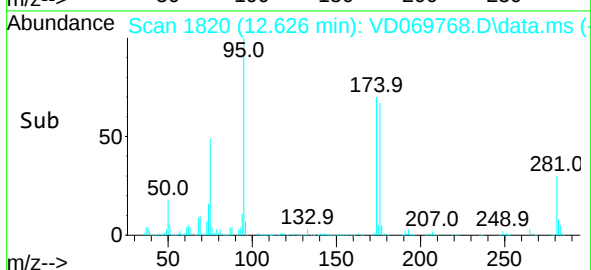
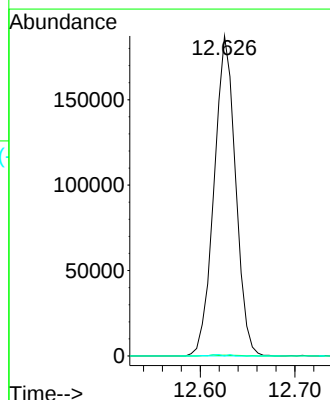
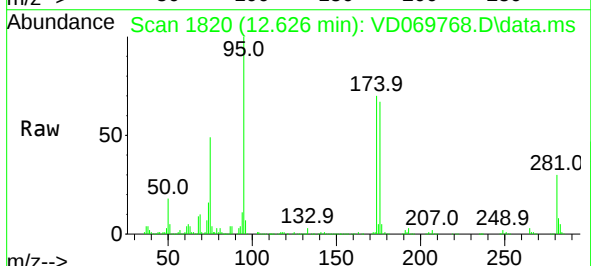
Instrument :  
MSVOA\_D  
ClientSampleId :

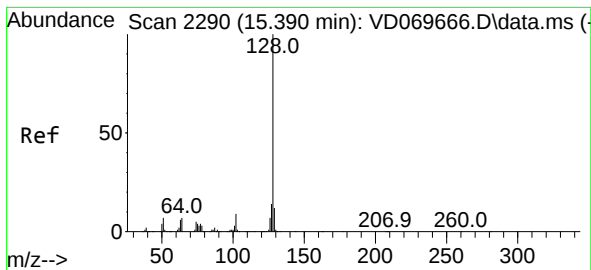
Tgt Ion: 75 Resp: 295907  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 145.759 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

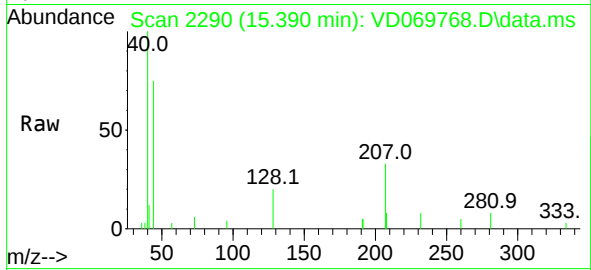
Tgt Ion: 75 Resp: 295907  
Ion Ratio Lower Upper  
75 100  
53 0.4 70.6 106.0#  
89 0.3 35.1 52.7#





#95  
Naphthalene  
Concen: 2.233 ug/l  
RT: 15.390 min Scan# 2290  
Delta R.T. 0.000 min  
Lab File: VD069768.D  
Acq: 20 Jul 2021 14:25

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion:128 Resp: 517  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.8 13.2#

