

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091420\  
 Data File : VN063349.D  
 Acq On : 14 Sep 2020 18:07  
 Operator : JC/MD  
 Sample : L3988-14  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SA-MW129I-20200909

Quant Time: Sep 15 05:13:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091020W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 11 06:02:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 385004   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 718499   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 699882   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 279771   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 287684   | 47.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.12%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 228719   | 49.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.68%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 910362   | 51.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.50% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 340589   | 51.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.82% |          |

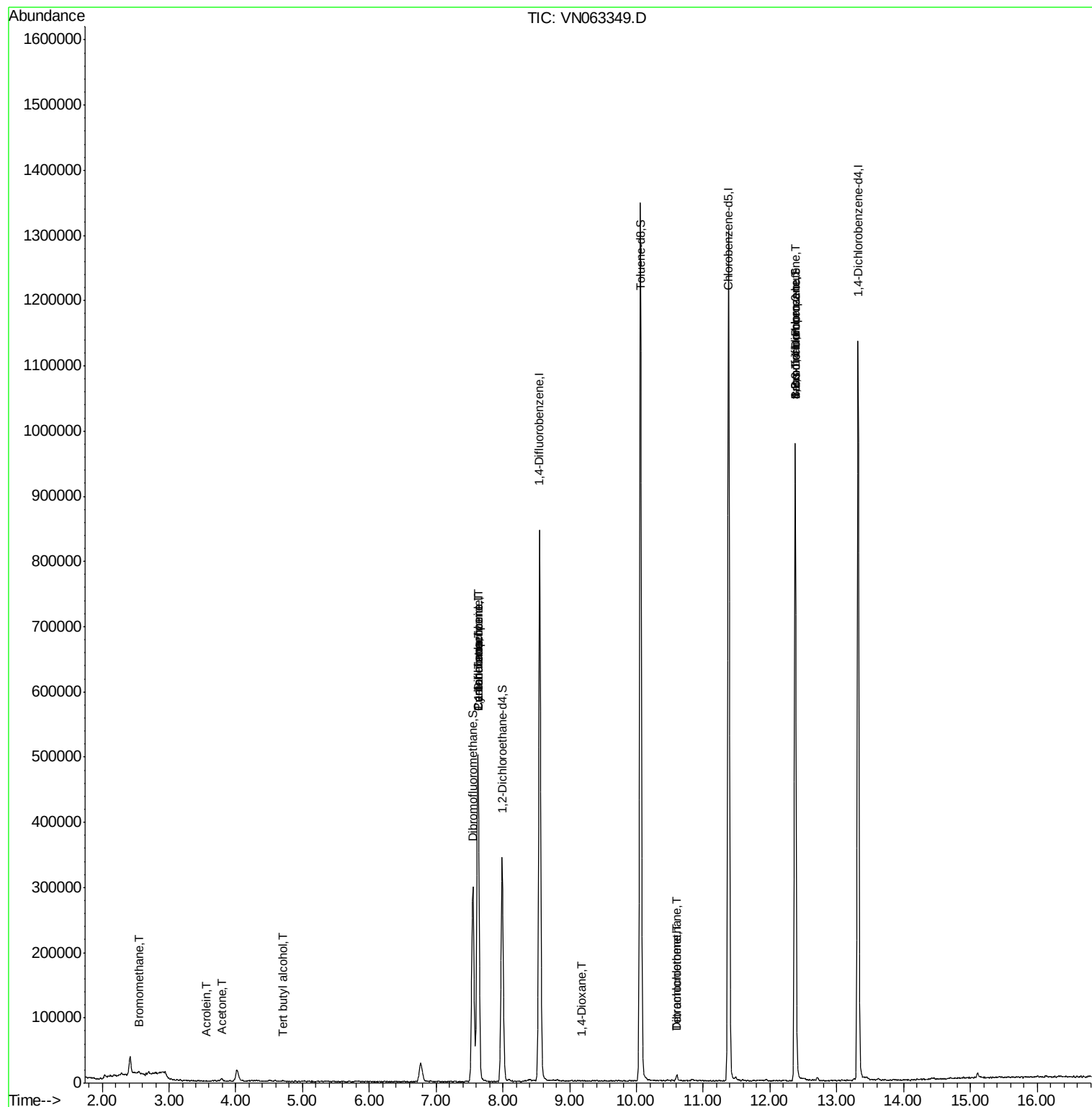
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 2625     | Below Cal | #      | 81     |
| 5) Bromomethane                | 2.55  | 94   | 762      | 0.209     | ug/l # | 7      |
| 11) Tert butyl alcohol         | 4.71  | 59   | 271      | 0.339     | ug/l # | 23     |
| 13) Acrolein                   | 3.56  | 56   | 111      | 32.679    | ug/l # | 55     |
| 16) Acetone                    | 3.78  | 43   | 7069     | 3.384     | ug/l   | 95     |
| 17) Carbon Disulfide           | 4.00  | 76   | 246      | Below Cal | #      | 75     |
| 20) Methylene Chloride         | 4.51  | 84   | 1088     | Below Cal | #      | 70     |
| 31) Cyclohexane                | 7.62  | 56   | 9461     | 1.115     | ug/l # | 14     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 35219    | 4.769     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 41771    | 5.747     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.17  | 88   | 108      | 1.188     | ug/l # | 1      |
| 60) Dibromochloromethane       | 10.60 | 129  | 1510     | 0.272     | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.60 | 164  | 1819     | 0.317     | ug/l # | 89     |
| 71) Bromoform                  | 12.38 | 173  | 1356     | 0.357     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 185800   | 30.103    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 185800   | 80.881    | ug/l # | 9      |
| 88) 1,4-Dichlorobenzene        | 13.27 | 146  | 790      | Below Cal |        | 85     |
| 95) Naphthalene                | 15.11 | 128  | 6276     | Below Cal | #      | 94     |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 110      | Below Cal | #      | 51     |

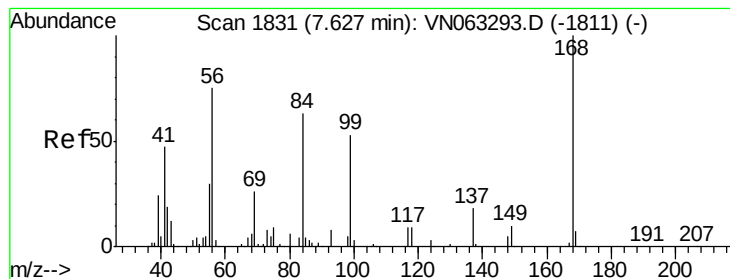
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091420\  
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Quant Title : SW846 8260  
QLast Update : Fri Sep 11 06:02:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063349.D

Acq: 14 Sep 2020 18:07

Instrument :

MSVOA\_N

ClientSampleId :

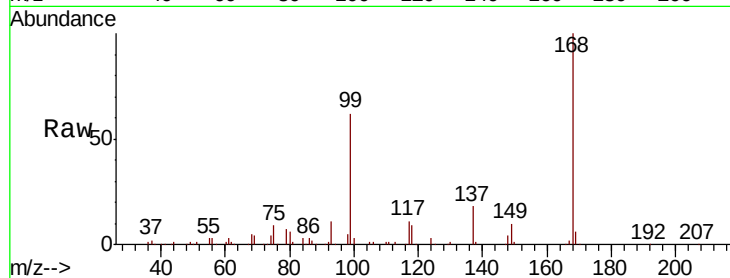
SA-MW129I-20200909

Tot Ion:168 Resp: 385004

Ion Ratio Lower Upper

168 100

99 62.3 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

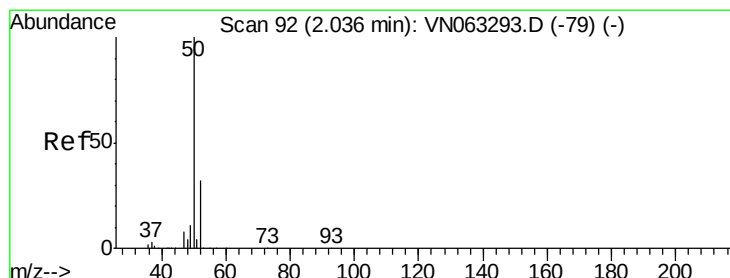
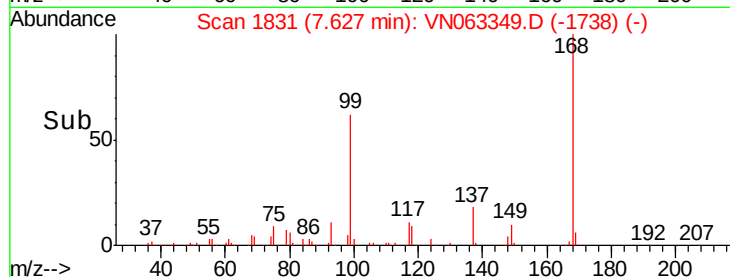
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063349.D

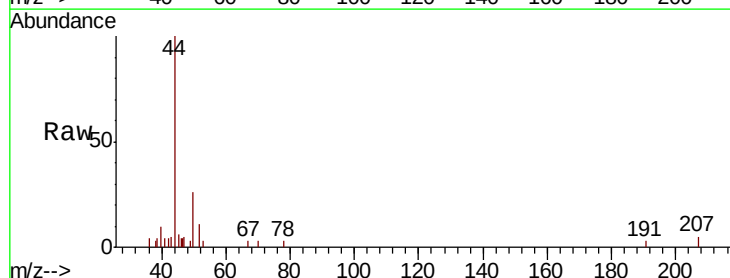
Acq: 14 Sep 2020 18:07

Tgt Ion: 50 Resp: 2625

Ion Ratio Lower Upper

50 100

52 42.3 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

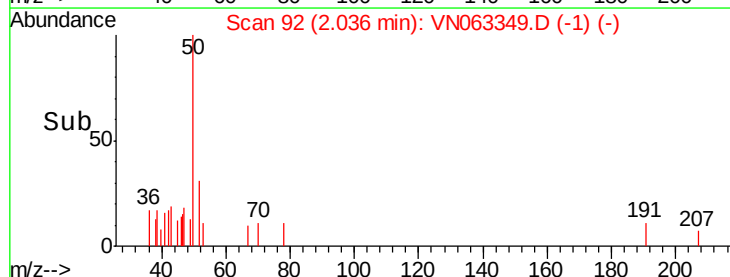
1500

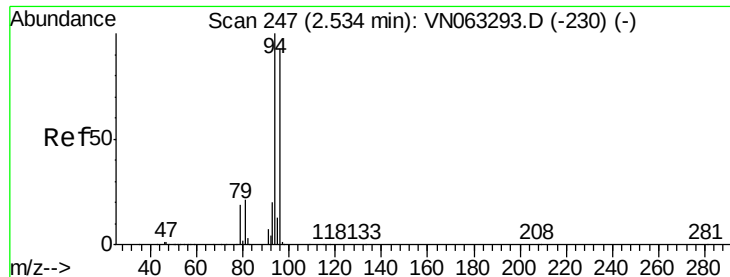
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.209 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063349.D

Acq: 14 Sep 2020 18:07

Instrument :

MSVOA\_N

ClientSampleId :

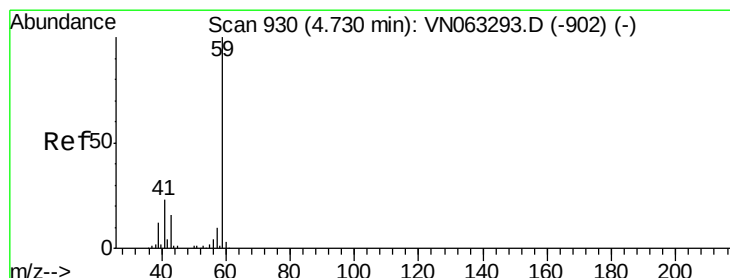
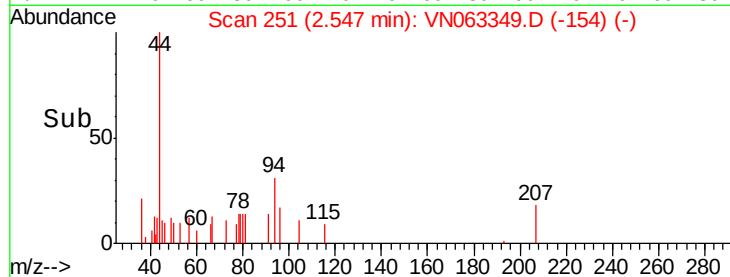
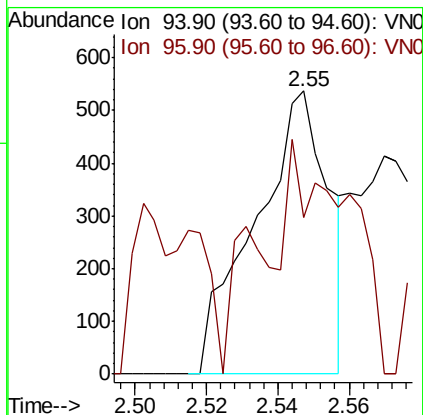
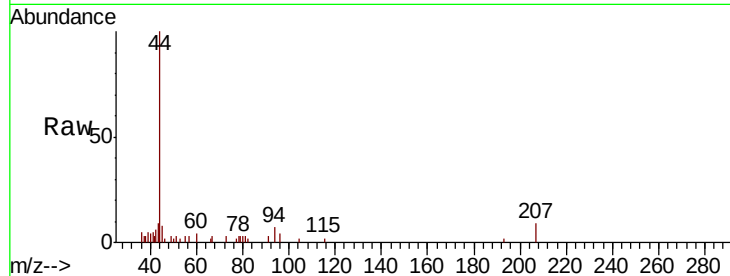
SA-MW129I-20200909

Tot Ion: 94 Resp: 762

Ion Ratio Lower Upper

94 100

96 4.1 74.3 111.5#



#11

Tert butyl alcohol

Concen: 0.339 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN063349.D

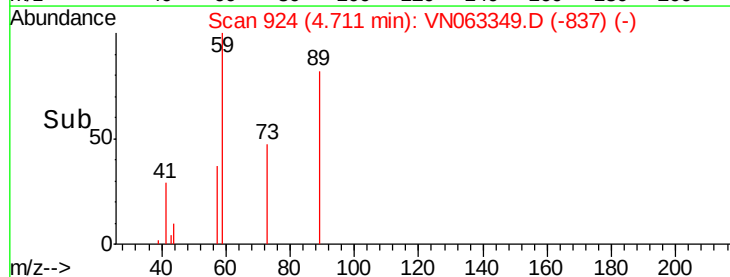
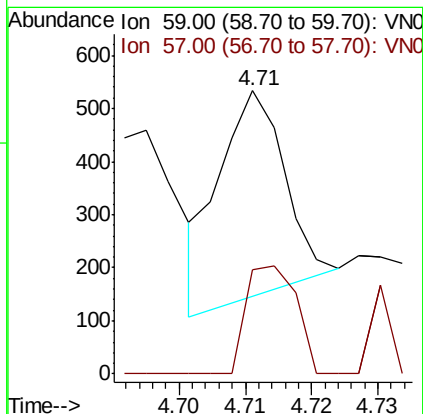
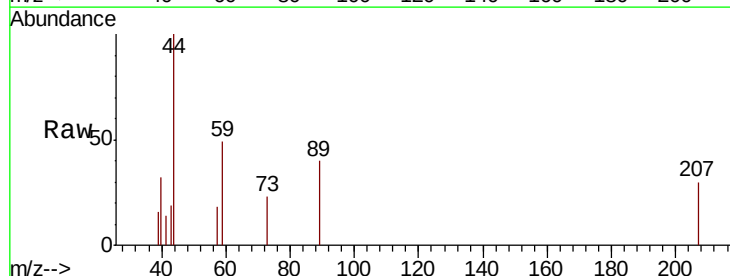
Acq: 14 Sep 2020 18:07

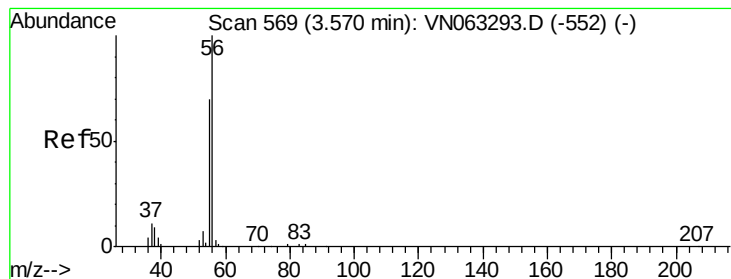
Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

59 100

57 39.1 8.3 12.5#





#13

Acrolein

Concen: 32.679 ug/l

RT: 3.56 min Scan# 565

Delta R.T. -0.01 min

Lab File: VN063349.D

Acq: 14 Sep 2020 18:07

Instrument :

MSVOA\_N

ClientSampleId :

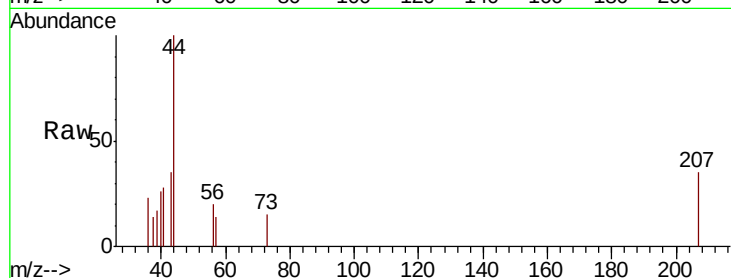
SA-MW129I-20200909

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

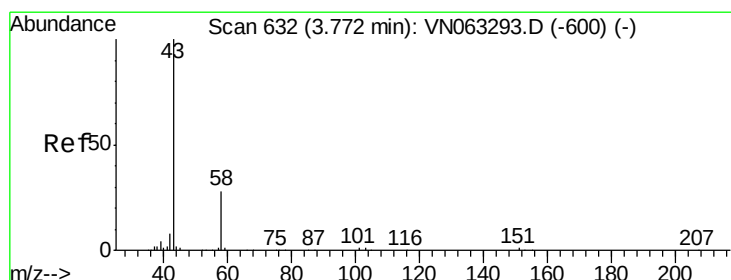
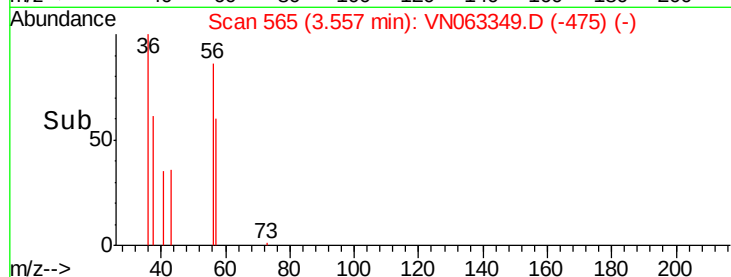
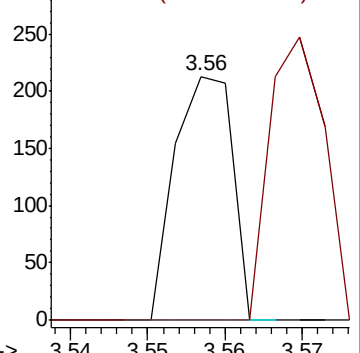
56 100

55 109.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 3.384 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063349.D

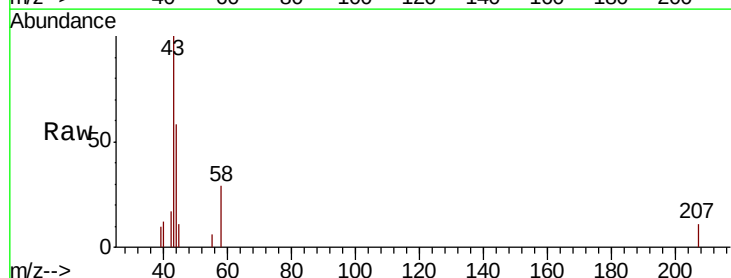
Acq: 14 Sep 2020 18:07

Tgt Ion: 43 Resp: 7069

Ion Ratio Lower Upper

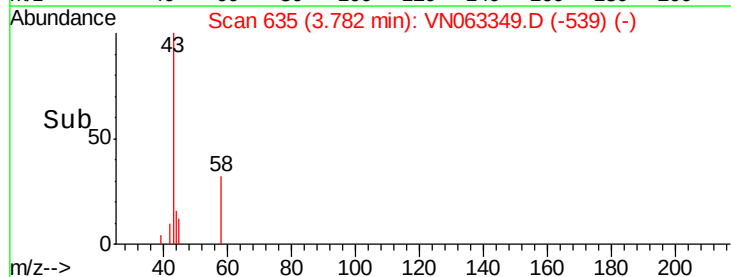
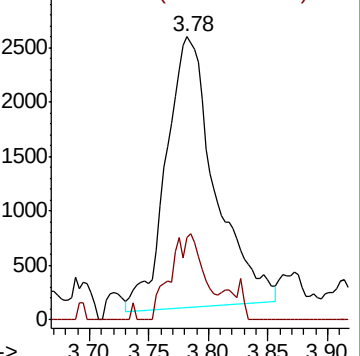
43 100

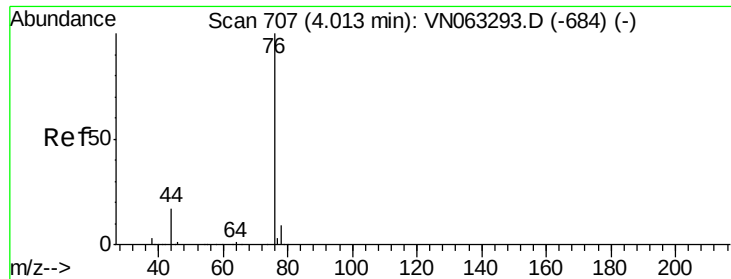
58 31.0 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

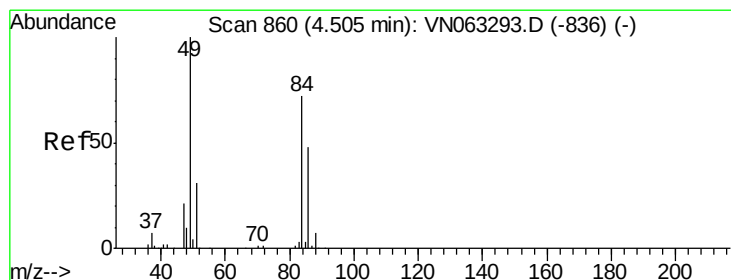
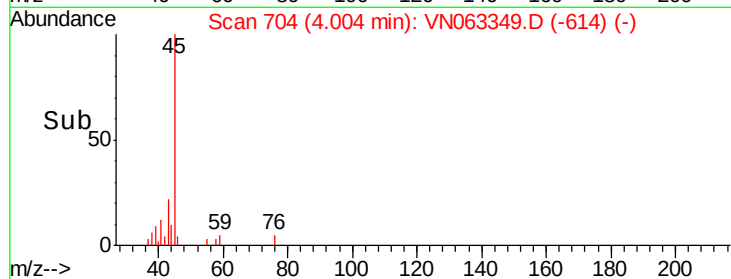
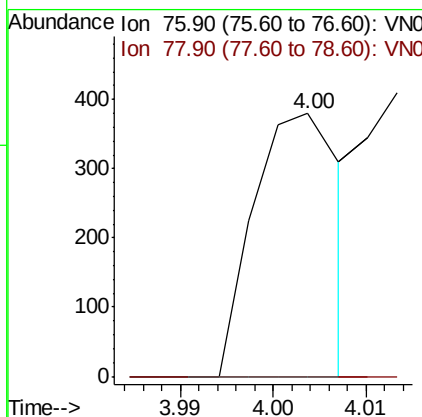
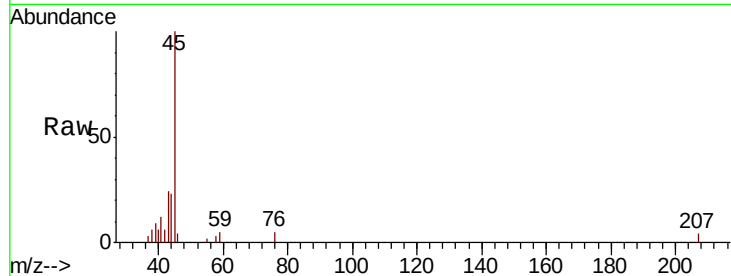




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.00 min Scan# 704  
Delta R.T. -0.01 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

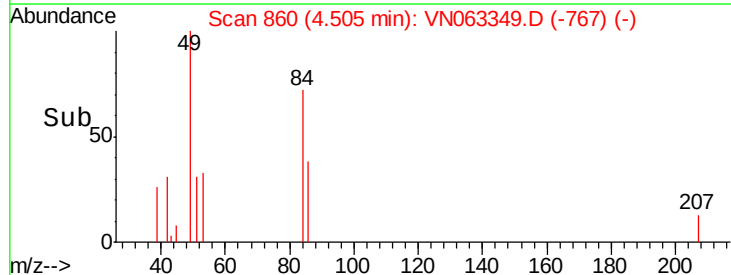
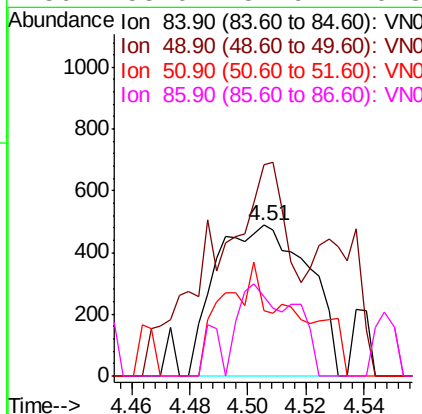
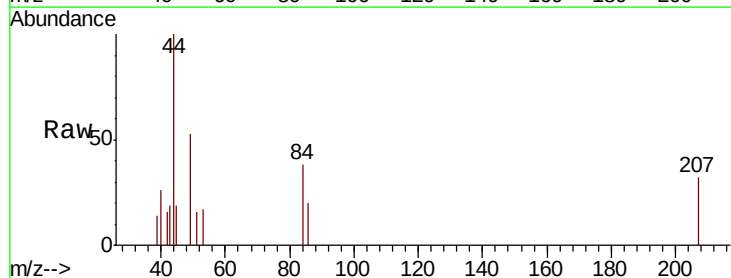
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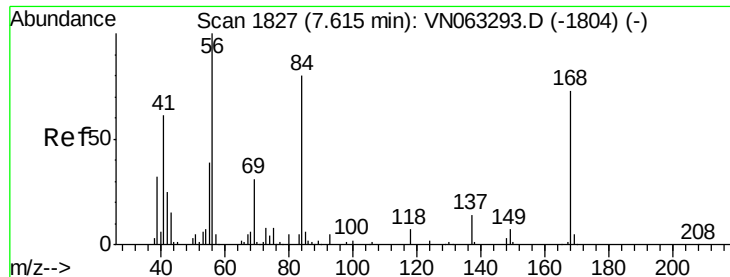
Tot Ion: 76 Resp: 246  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.51 min Scan# 860  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Tgt Ion: 84 Resp: 1088  
Ion Ratio Lower Upper  
84 100  
49 84.0 111.1 166.7#  
51 43.4 34.3 51.5  
86 53.0 52.9 79.3

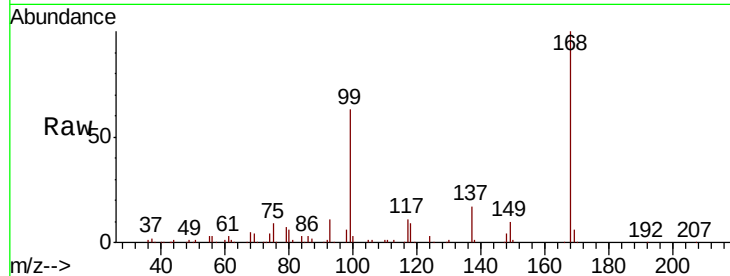




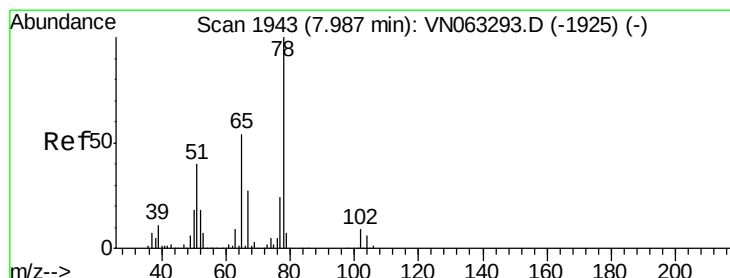
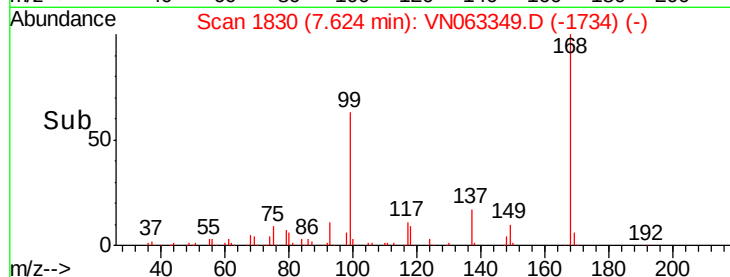
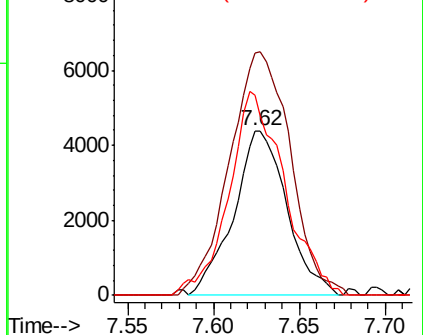
#31  
Cyclohexane  
Concen: 1.115 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
SA-MW129I-20200909

Tot Ion: 56 Resp: 9461  
Ion Ratio Lower Upper  
56 100  
69 141.5 25.1 37.7#  
84 117.4 64.2 96.2#

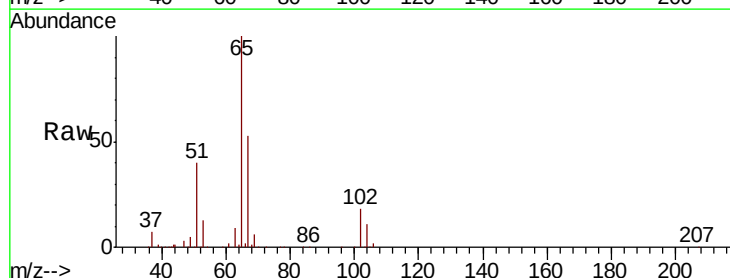


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

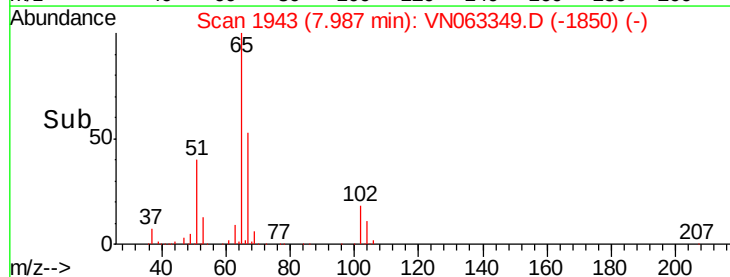
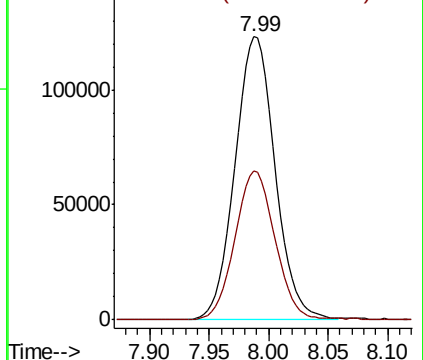


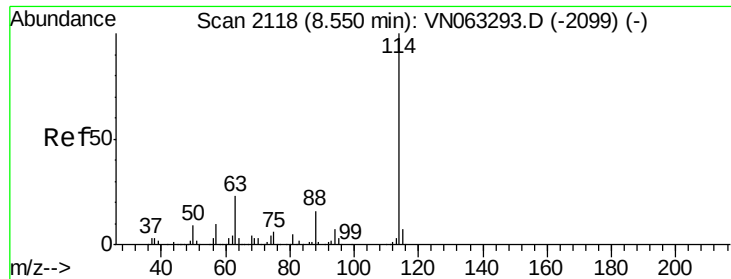
#33  
1,2-Dichloroethane-d4  
Concen: 47.559 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Tgt Ion: 65 Resp: 287684  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

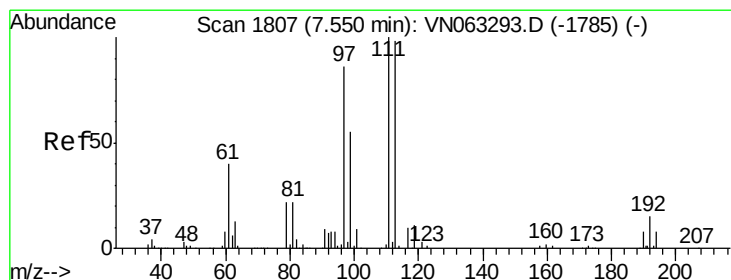
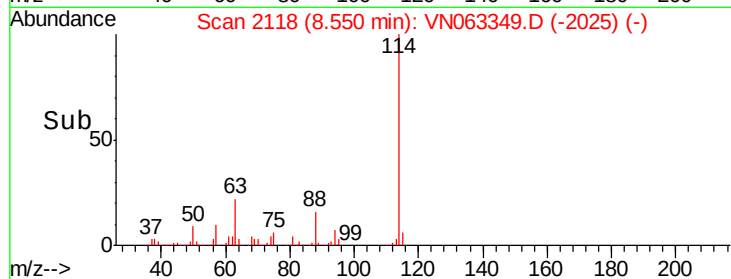
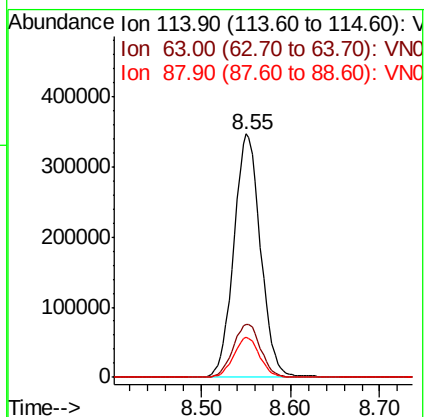
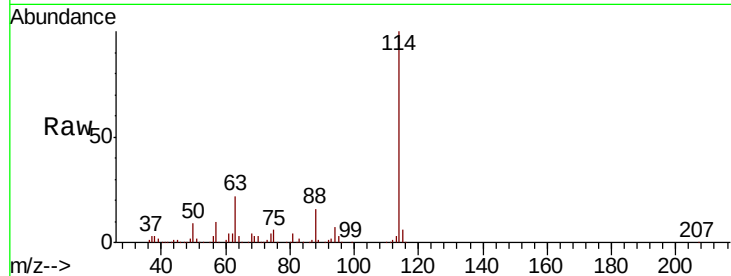




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

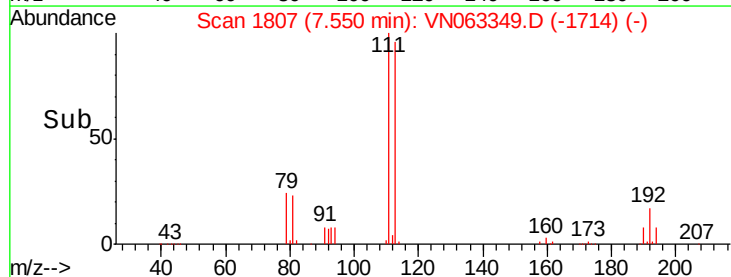
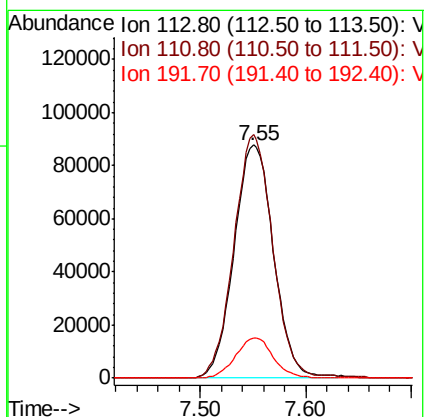
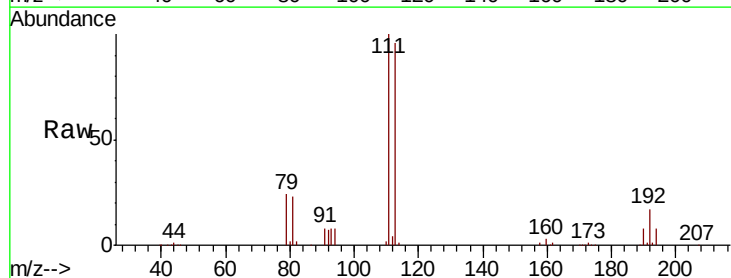
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SA-MW129I-20200909

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.9  | 0.0   | 46.0  |
| 88      | 16.4  | 0.0   | 32.8  |

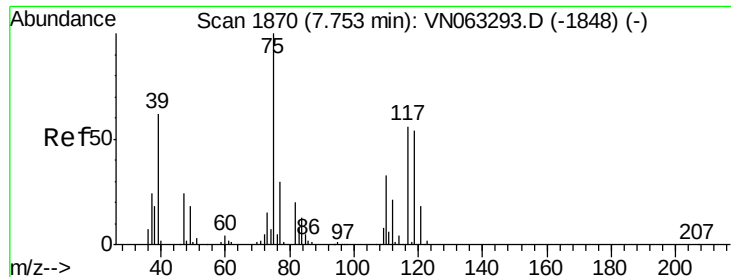


#35  
 Dibromofluoromethane  
 Concen: 49.344 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. -0.00 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 82.2  | 123.2 |
| 192     | 16.6  | 12.9  | 19.3  |



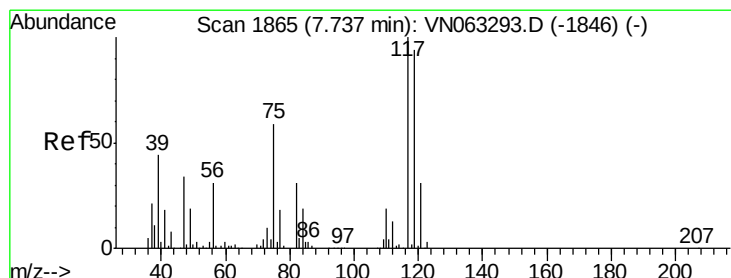
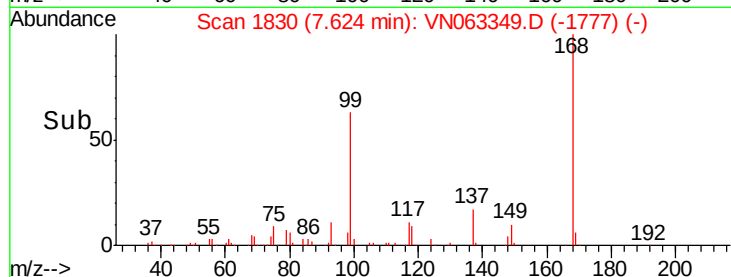
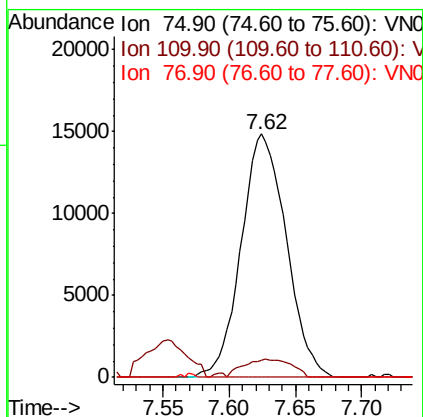
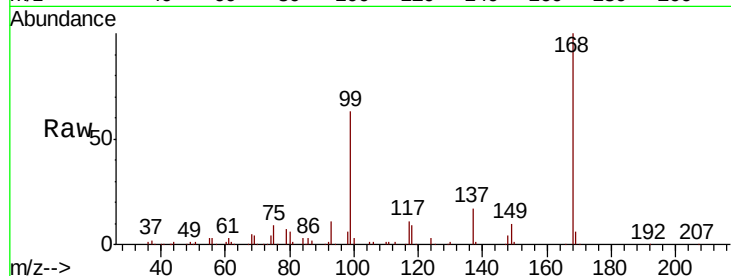




#36  
 1,1-Dichloropropene  
 Concen: 4.769 ug/l  
 RT: 7.62 min Scan# 1830  
 Delta R.T. -0.13 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

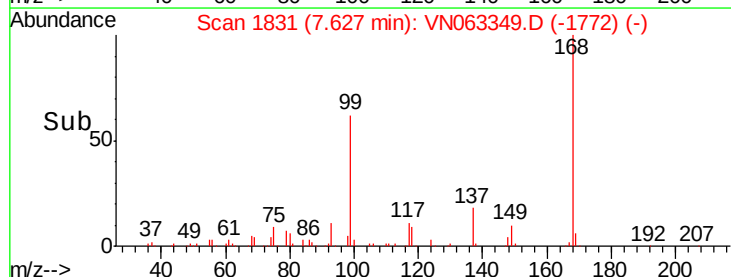
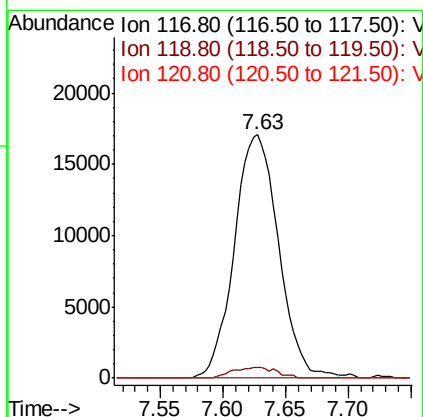
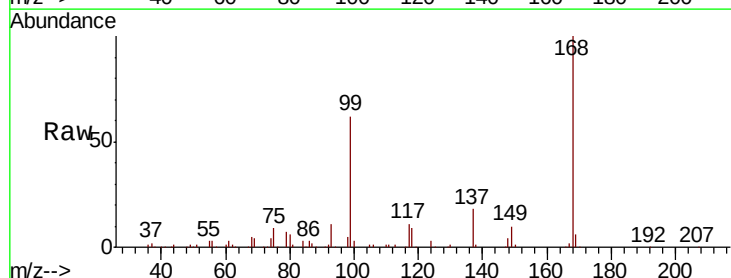
Instrument :  
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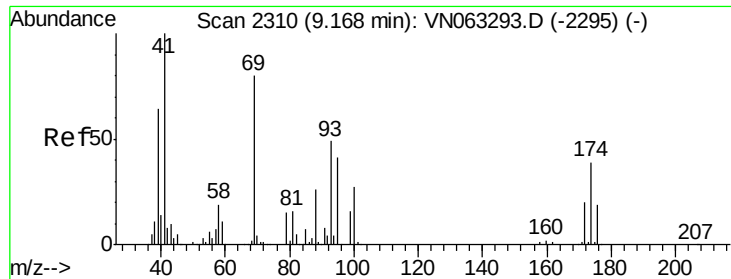
| Tot Ion   | 75    | Resp  | 35219 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.0   | 16.4  | 49.4# |
| 77        | 0.0   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 5.747 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.11 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

| Tgt Ion                                           | 117   | Resp  | 41771  |
|---------------------------------------------------|-------|-------|--------|
| Ion Ratio <td>Lower</td> <td>Upper</td> <td></td> | Lower | Upper |        |
| 117                                               | 100   |       |        |
| 119                                               | 4.6   | 75.3  | 112.9# |
| 121                                               | 0.0   | 24.6  | 37.0#  |

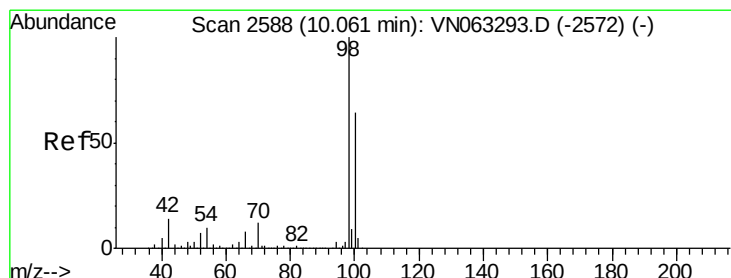
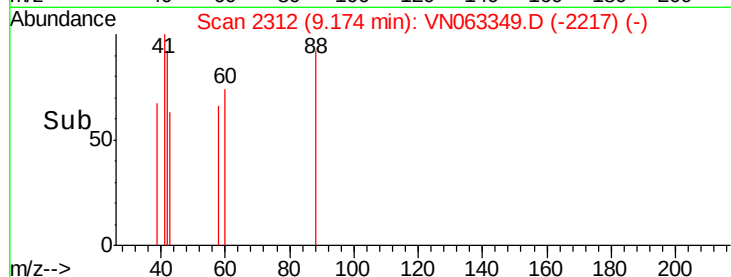
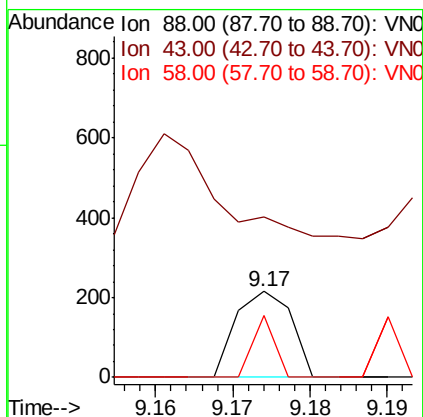
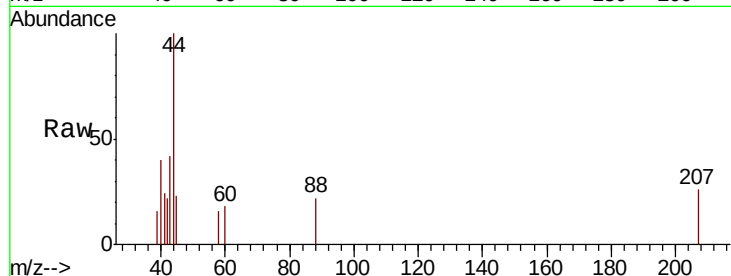




#49  
 1,4-Dioxane  
 Concen: 1.188 ug/l  
 RT: 9.17 min Scan# 2312  
 Delta R.T. 0.01 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

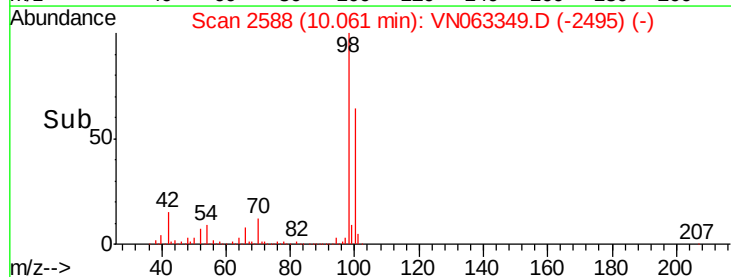
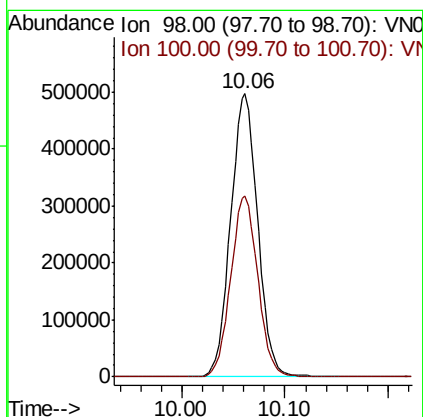
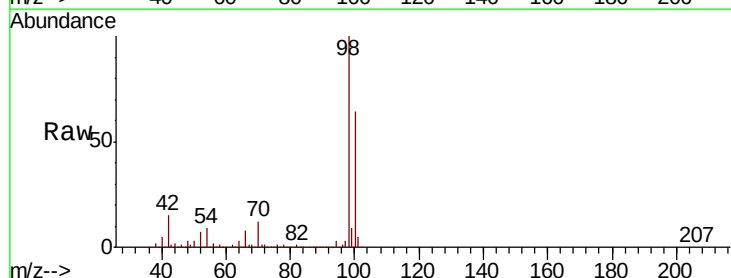
Instrument :  
 MSVOA\_N  
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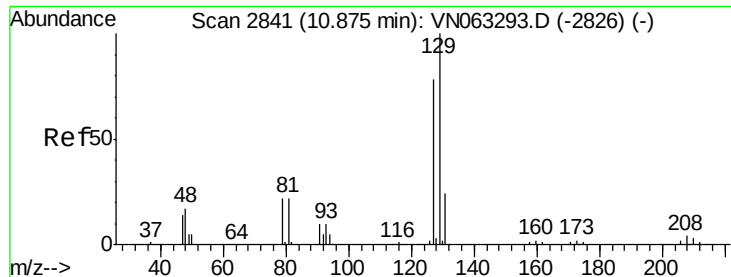
Tot Ion: 88 Resp: 108  
 Ion Ratio Lower Upper  
 88 100  
 43 175.0 30.5 45.7#  
 58 27.8 58.9 88.3#



#50  
 Toluene-d8  
 Concen: 51.250 ug/l  
 RT: 10.06 min Scan# 2588  
 Delta R.T. -0.00 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

Tgt Ion: 98 Resp: 910362  
 Ion Ratio Lower Upper  
 98 100  
 100 64.2 50.7 76.1

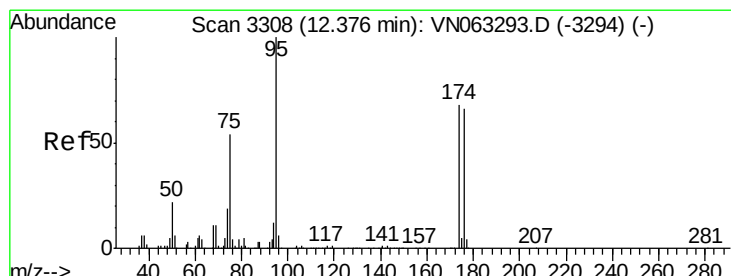
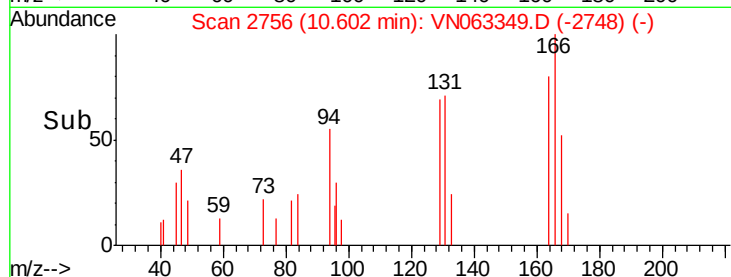
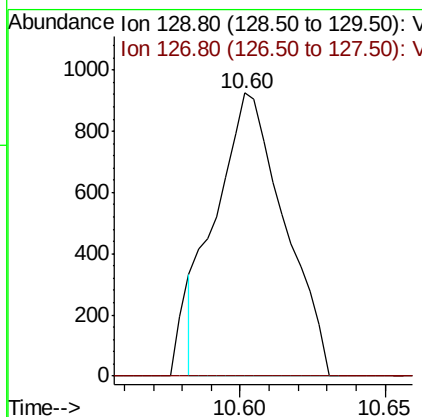
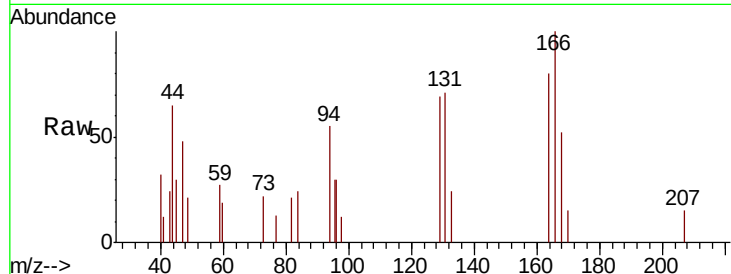




#60  
Dibromochloromethane  
Concen: 0.272 ug/l  
RT: 10.60 min Scan# 2756  
Delta R.T. -0.27 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

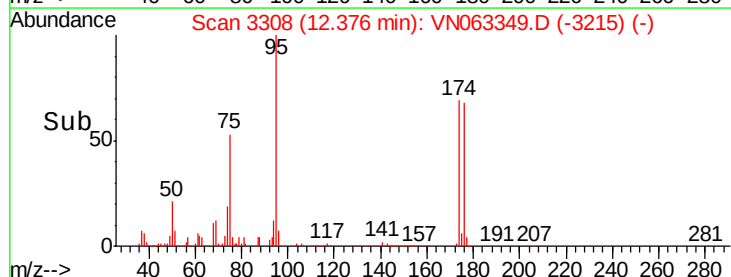
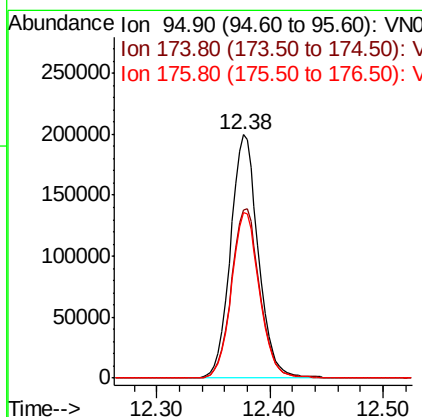
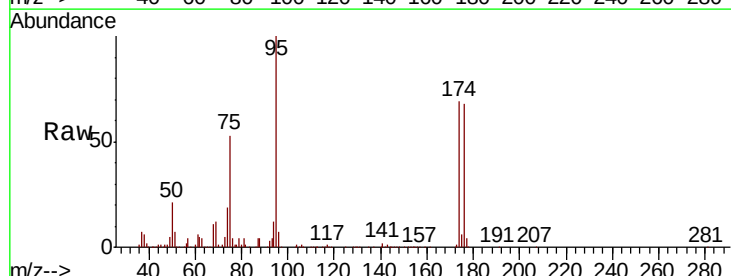
Instrument :  
MSVOA\_N  
ClientSampleId :  
SA-MW129I-20200909

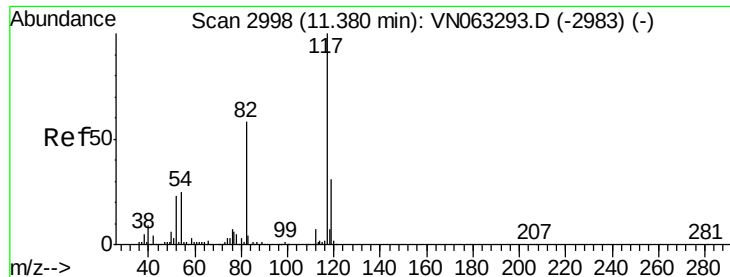
Tot Ion:129 Resp: 1510  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#



#62  
4-Bromofluorobenzene  
Concen: 51.912 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Tgt Ion: 95 Resp: 340589  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 136.6  
176 68.8 0.0 132.8

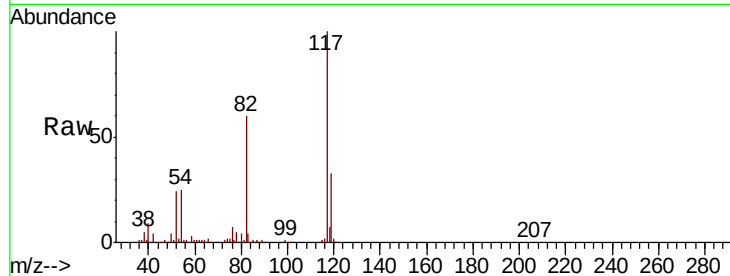




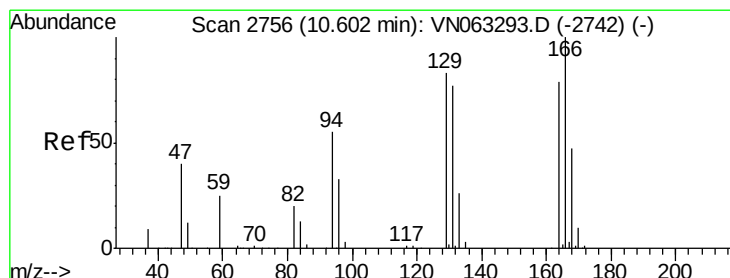
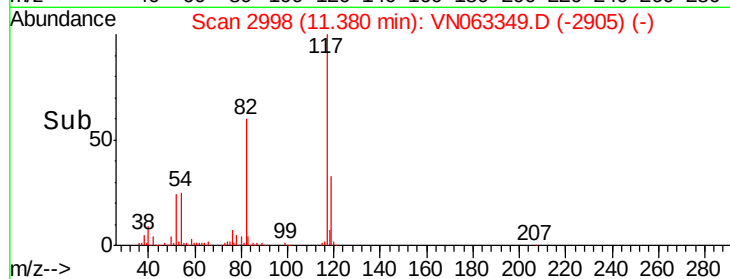
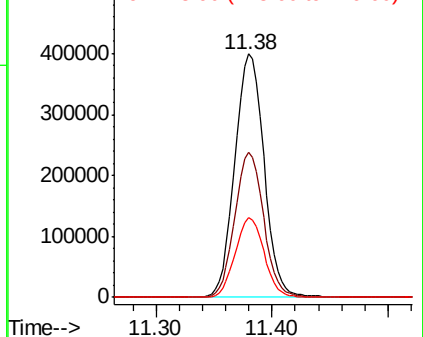
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tot Ion:117 Resp: 699882  
Ion Ratio Lower Upper  
117 100  
82 59.5 46.4 69.6  
119 32.6 24.8 37.2

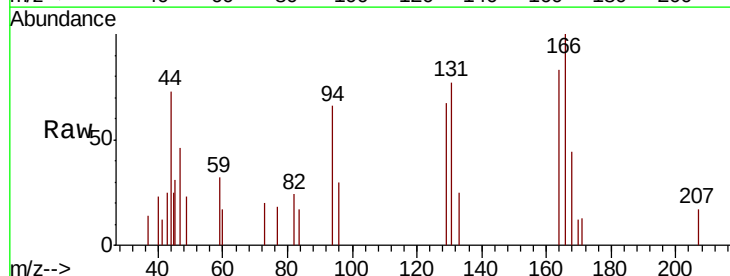


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

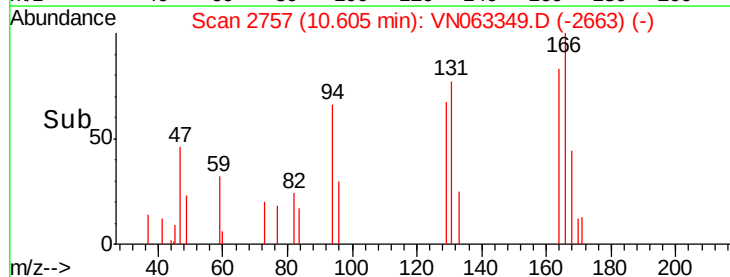
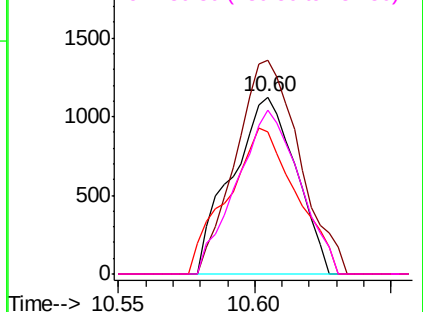


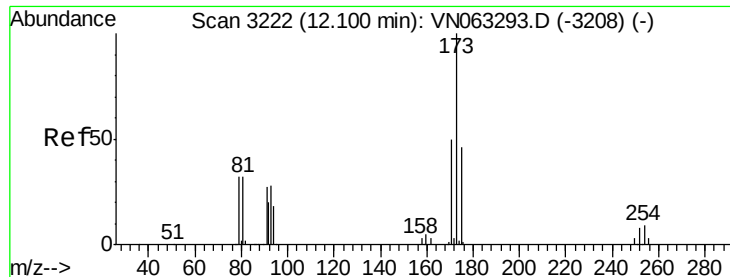
#64  
Tetrachloroethene  
Concen: 0.317 ug/l  
RT: 10.60 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Tgt Ion:164 Resp: 1819  
Ion Ratio Lower Upper  
164 100  
166 120.7 101.3 151.9  
129 80.4 83.7 125.5#  
131 92.4 78.2 117.4



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

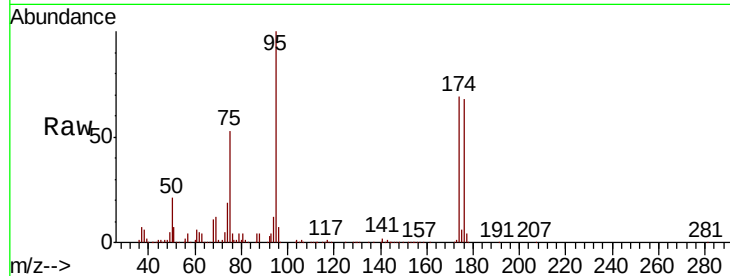




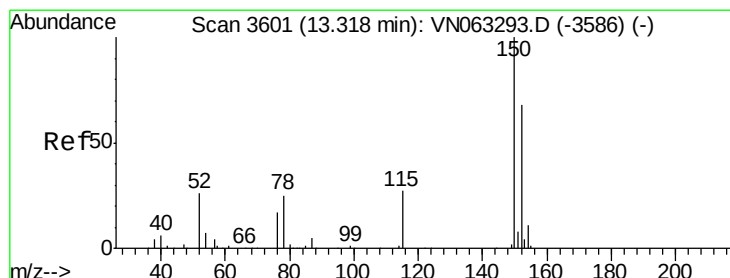
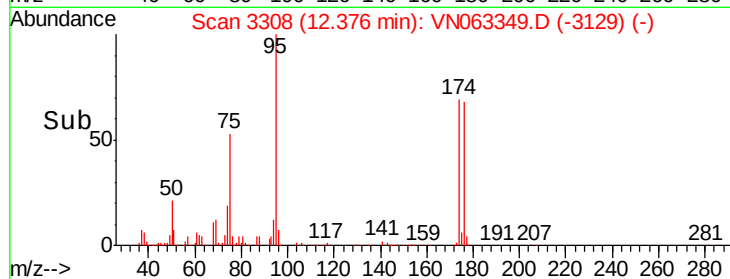
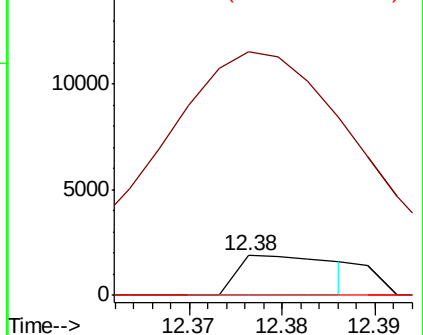
#71  
Bromoform  
Concen: 0.357 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.28 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Instrument :  
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Tot Ion:173 Resp: 1356  
Ion Ratio Lower Upper  
173 100  
175 1145.6 23.8 71.5#  
254 0.0 0.0 0.0

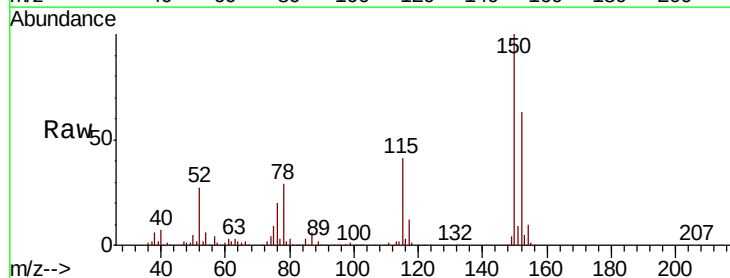


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

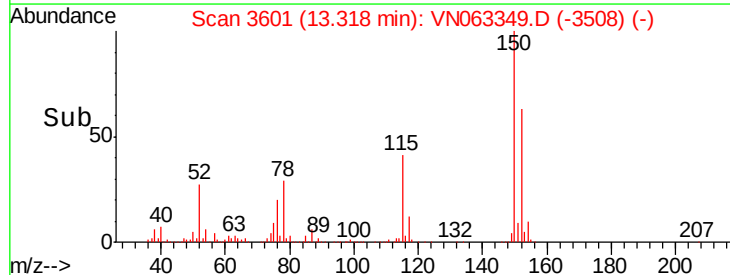
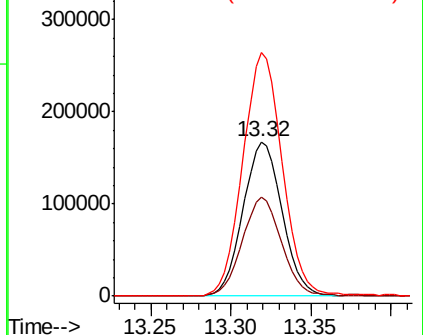


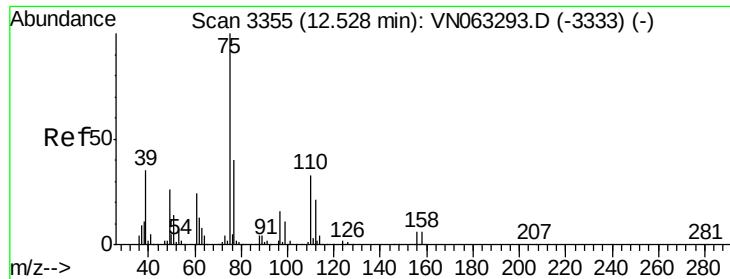
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN063349.D  
Acq: 14 Sep 2020 18:07

Tgt Ion:152 Resp: 279771  
Ion Ratio Lower Upper  
152 100  
115 64.2 31.5 94.5  
150 160.0 0.0 344.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

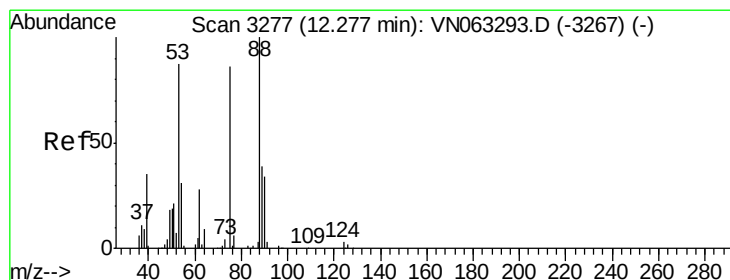
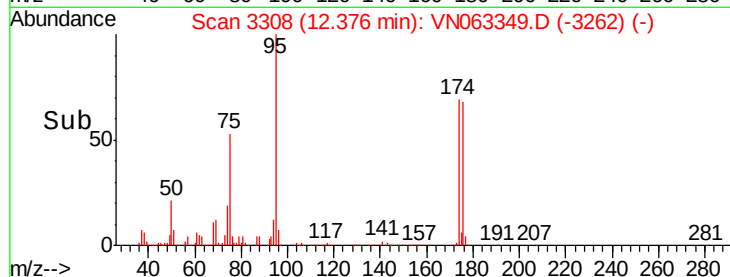
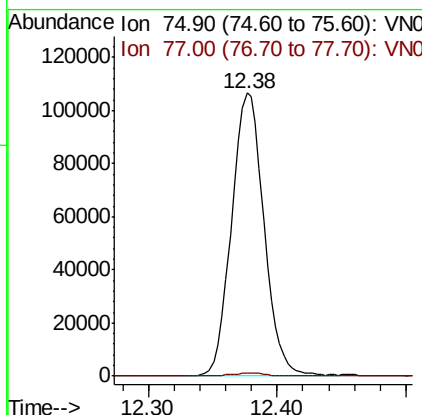
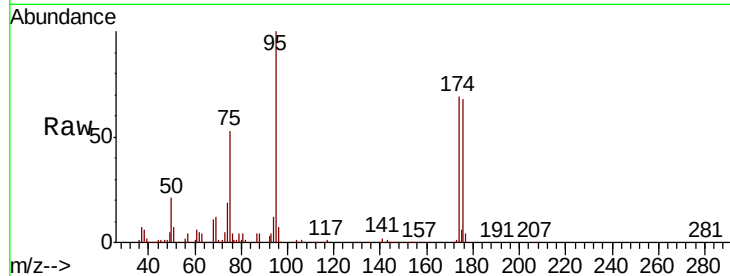




#76  
 1,2,3-Trichloropropane  
 Concen: 30.103 ug/l  
 RT: 12.38 min Scan# 3308  
 Delta R.T. -0.15 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

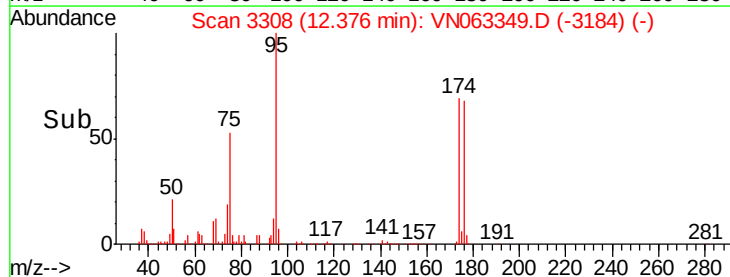
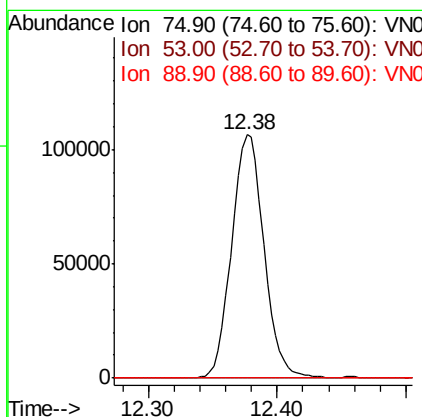
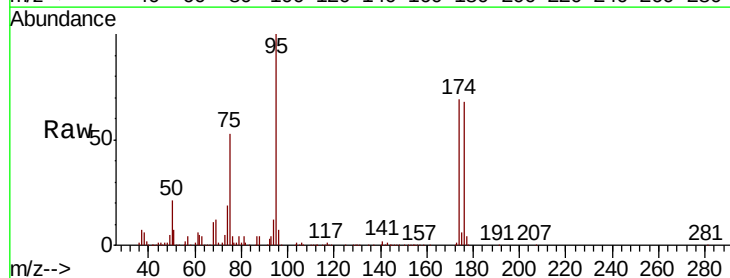
Instrument :  
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 ClientSampleId :  
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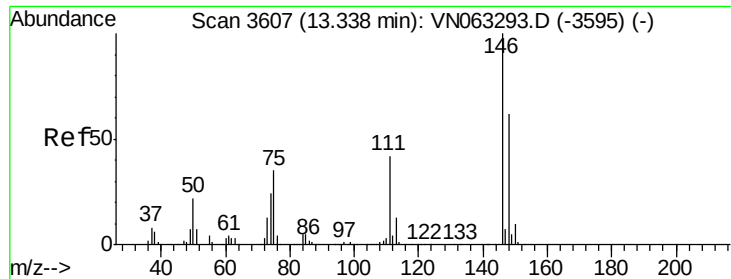
Tot Ion: 75 Resp: 185800  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 80.881 ug/l  
 RT: 12.38 min Scan# 3308  
 Delta R.T. 0.10 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

Tgt Ion: 75 Resp: 185800  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 81.8 122.8#  
 89 0.0 36.7 55.1#

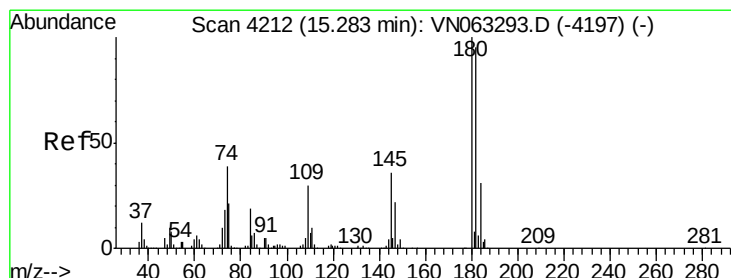
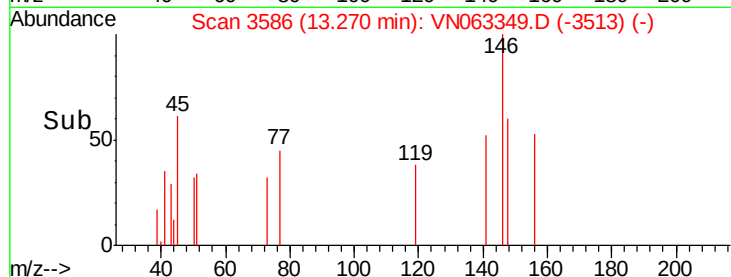
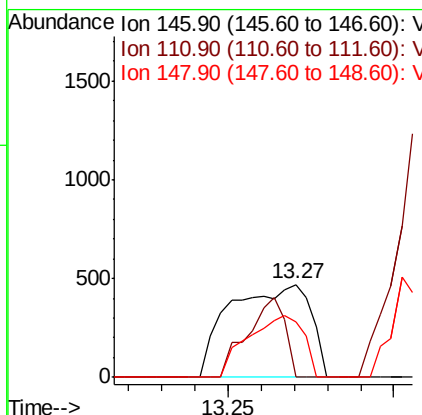
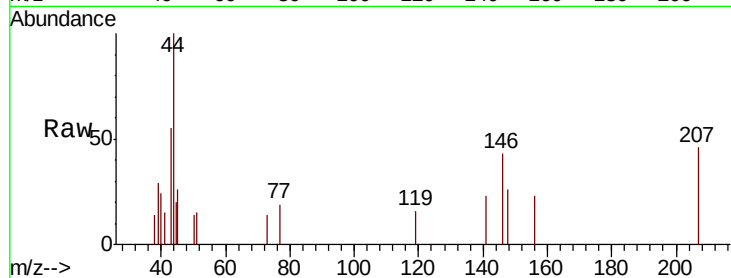




#88  
 1,4-Dichlorobenzene  
 Concen: Below Cal  
 RT: 13.27 min Scan# 3586  
 Delta R.T. -0.07 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Tot Ion:146 Resp: 790  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 21.3 64.0  
 148 46.2 31.5 94.5



#96  
 1,2,3-Trichlorobenzene  
 Concen: Below Cal  
 RT: 15.29 min Scan# 4215  
 Delta R.T. 0.01 min  
 Lab File: VN063349.D  
 Acq: 14 Sep 2020 18:07

Tgt Ion:180 Resp: 110  
 Ion Ratio Lower Upper  
 180 100  
 182 139.1 47.4 142.3  
 145 0.0 17.2 51.6#

