

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\  
 Data File : VN063772.D  
 Acq On : 1 Oct 2020 15:22  
 Operator : JC/MD  
 Sample : L4168-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Oct 02 02:14:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 214799   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 397969   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 403201   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 169894   | 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   | 183665   | 51.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.52% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 131911   | 47.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.54%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 498599   | 47.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.26%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 203851   | 51.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.60% |          |

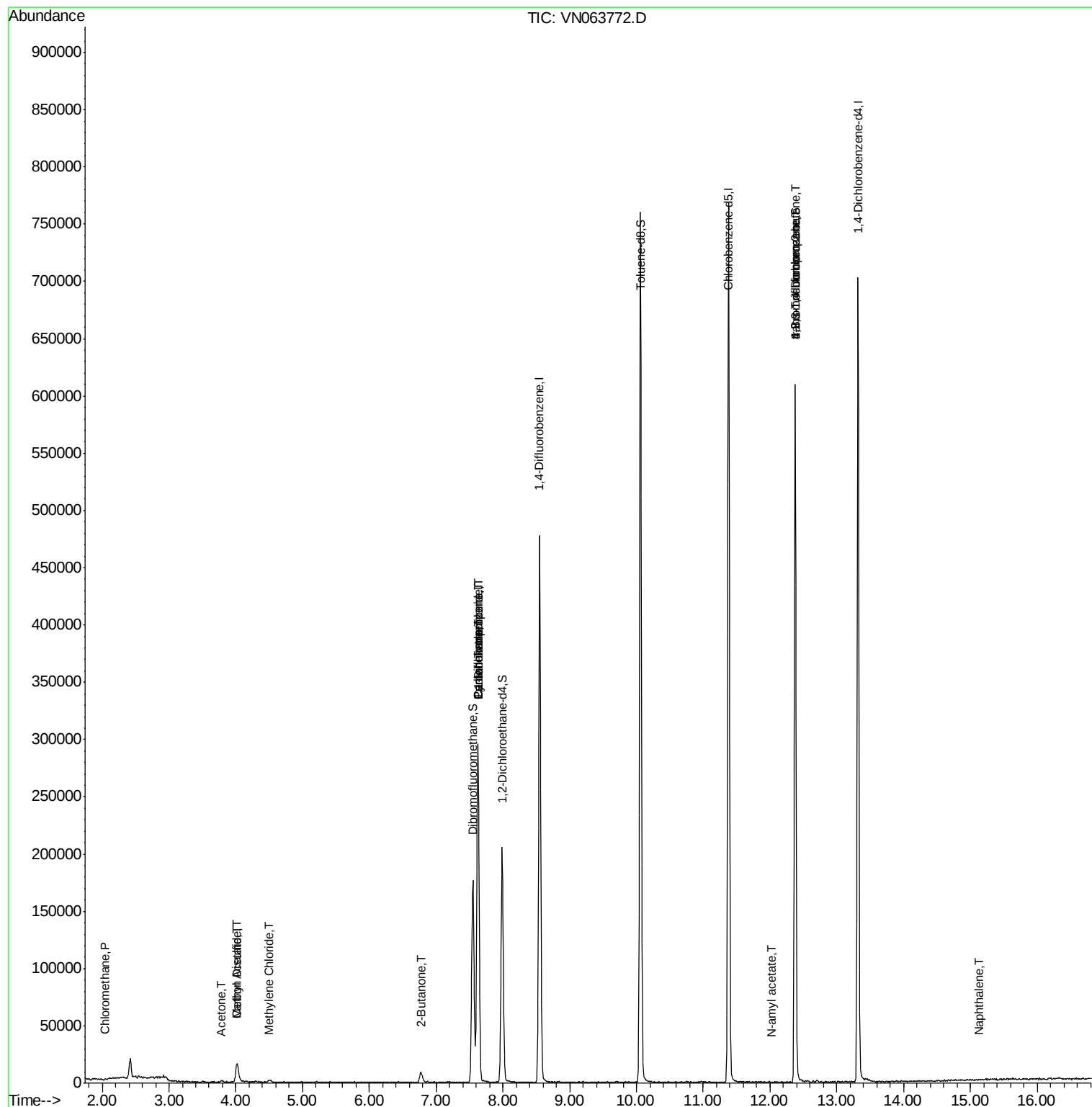
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 666      | 0.250  | ug/l # | 42     |
| 16) Acetone                    | 3.78  | 43   | 2337     | 2.139  | ug/l   | 90     |
| 17) Carbon Disulfide           | 4.01  | 76   | 233      | 0.740  | ug/l # | 76     |
| 18) Methyl Acetate             | 4.02  | 43   | 6829     | 2.408  | ug/l # | 54     |
| 20) Methylene Chloride         | 4.51  | 84   | 1165     | 0.563  | ug/l   | 92     |
| 25) 2-Butanone                 | 6.77  | 43   | 553      | 0.357  | ug/l # | 51     |
| 31) Cyclohexane                | 7.63  | 56   | 6466     | 1.570  | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 19915    | 4.939  | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 23983    | 5.305  | ug/l # | 15     |
| 74) N-amyl acetate             | 12.02 | 43   | 331      | 2.271  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 115031   | 30.715 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 115031   | 88.463 | ug/l # | 6      |
| 95) Naphthalene                | 15.13 | 128  | 249      | 1.951  | ug/l # | 69     |

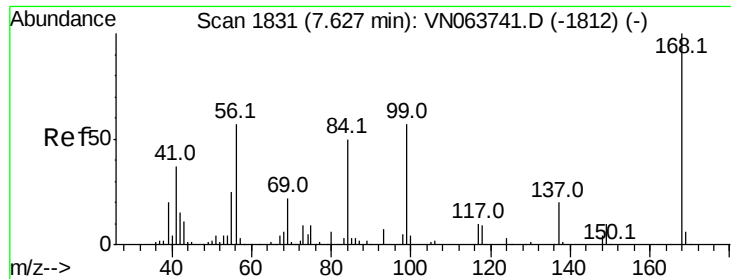
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100120\  
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Sample : L4168-04  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Quant Time: Oct 02 02:14:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 01:46:38 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: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

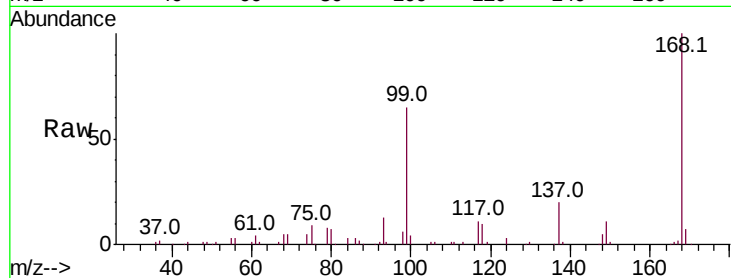
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 214799

Ion Ratio Lower Upper

168 100

99 64.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

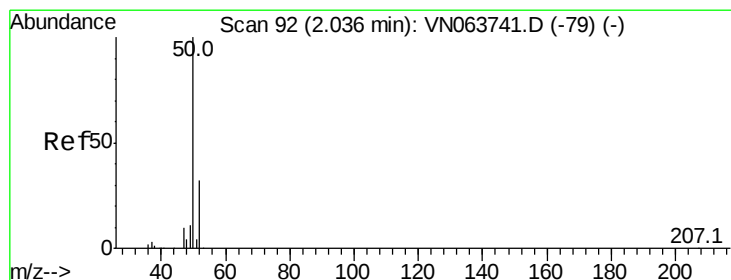
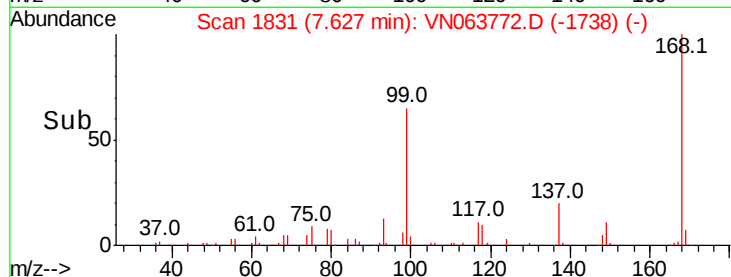
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.250 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063772.D

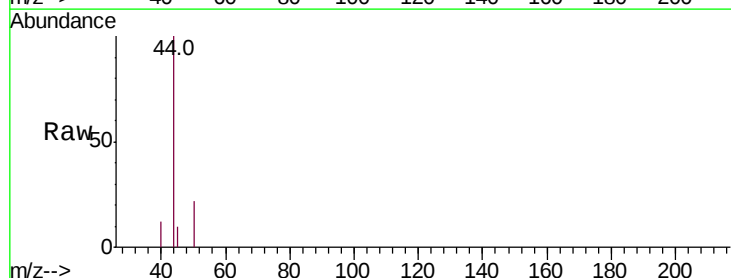
Acq: 1 Oct 2020 15:22

Tgt Ion: 50 Resp: 666

Ion Ratio Lower Upper

50 100

52 0.0 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

500

400

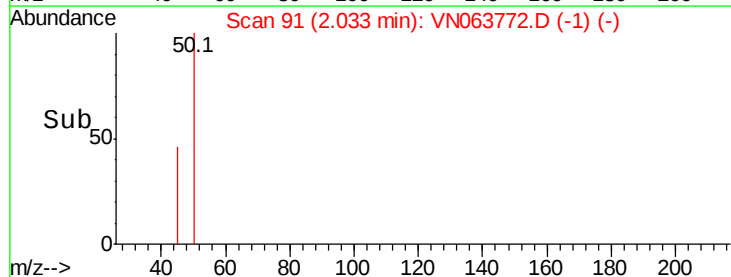
300

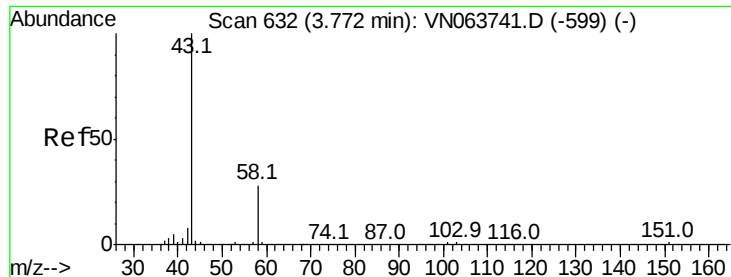
200

100

0

Time--> 2.00 2.02 2.04 2.06





#16

Acetone

Concen: 2.139 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

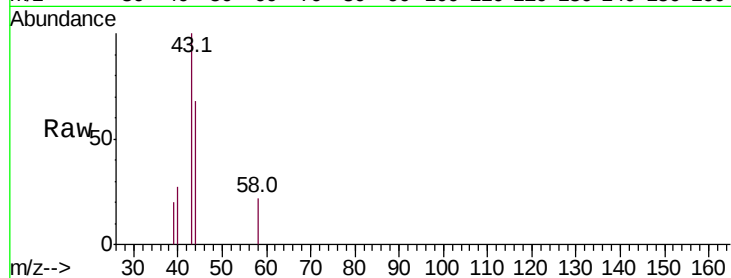
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 2337

Ion Ratio Lower Upper

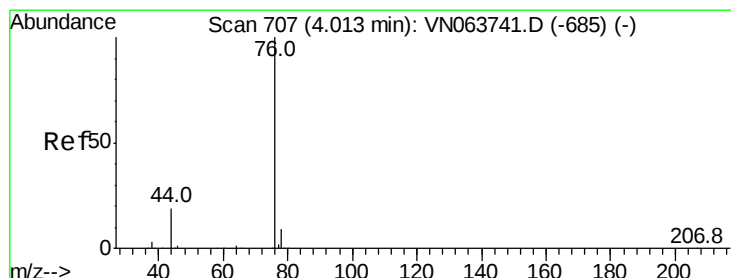
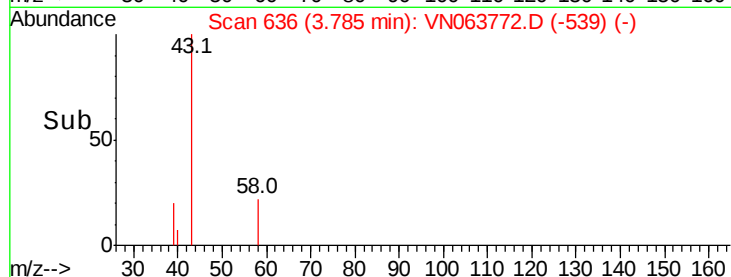
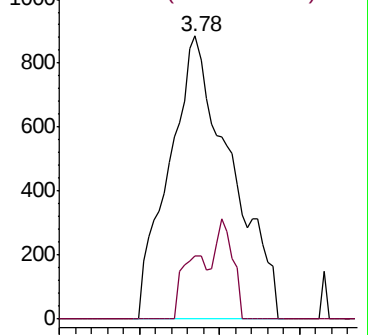
43 100

58 22.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.740 ug/l

RT: 4.01 min Scan# 705

Delta R.T. -0.01 min

Lab File: VN063772.D

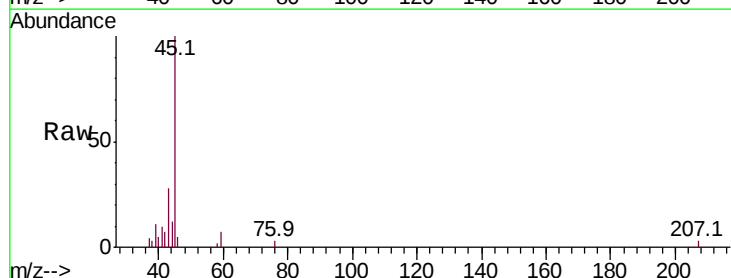
Acq: 1 Oct 2020 15:22

Tgt Ion: 76 Resp: 233

Ion Ratio Lower Upper

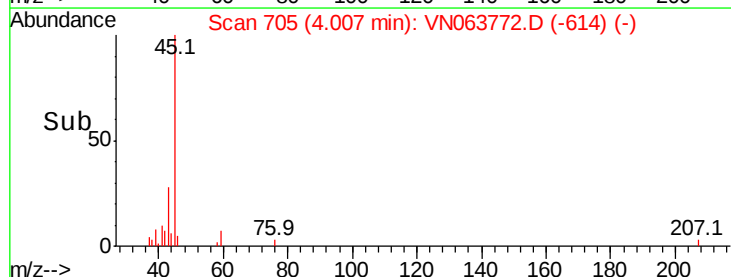
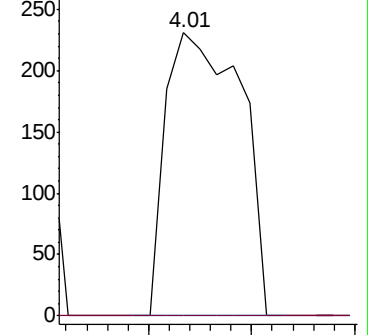
76 100

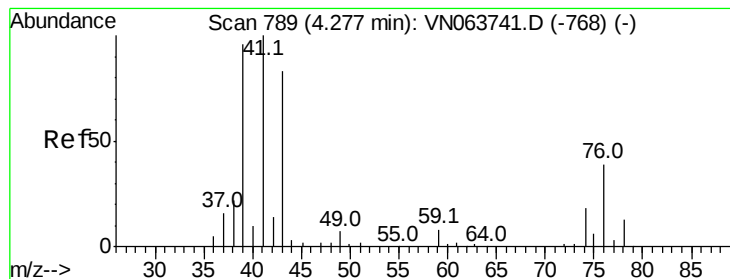
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#18

Methyl Acetate

Concen: 2.408 ug/l

RT: 4.02 min Scan# 709

Delta R.T. -0.26 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

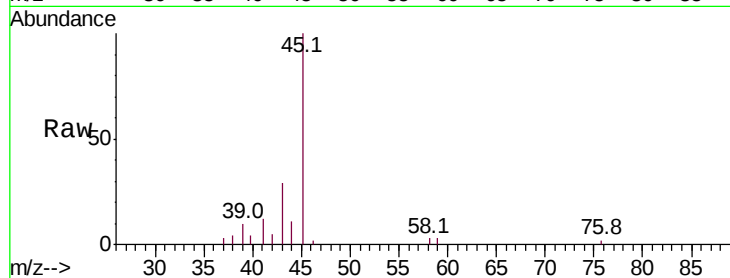
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 6829

Ion Ratio Lower Upper

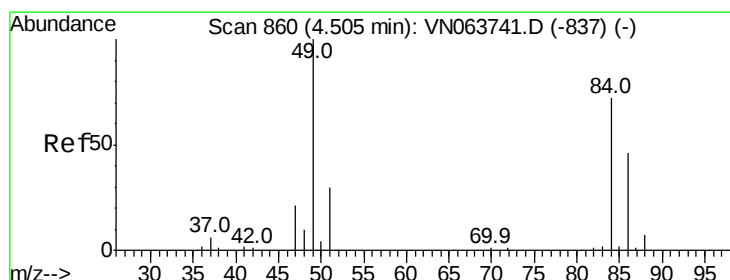
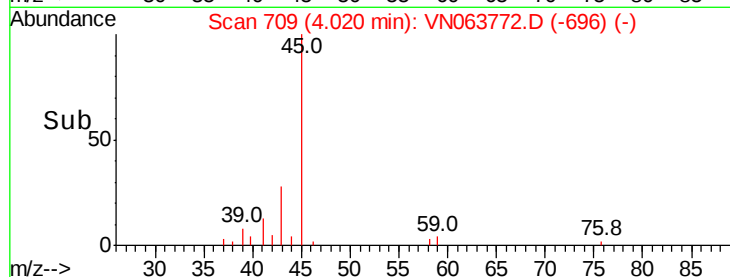
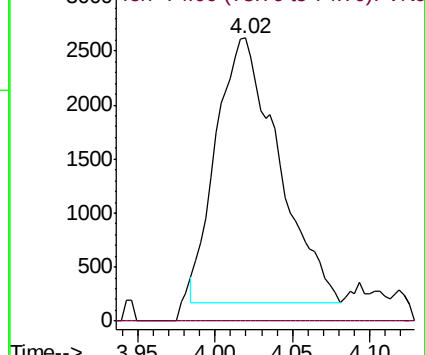
43 100

74 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 0.563 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.00 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Tgt Ion: 84 Resp: 1165

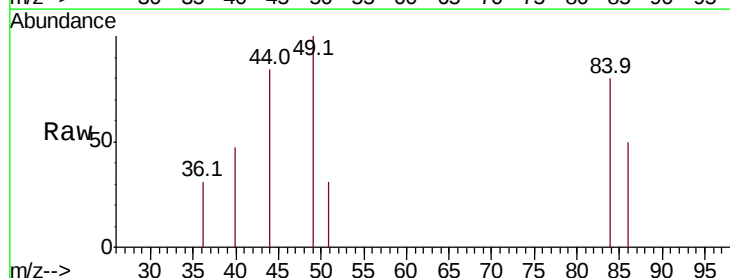
Ion Ratio Lower Upper

84 100

49 124.6 110.4 165.6

51 38.1 33.3 49.9

86 61.9 50.7 76.1

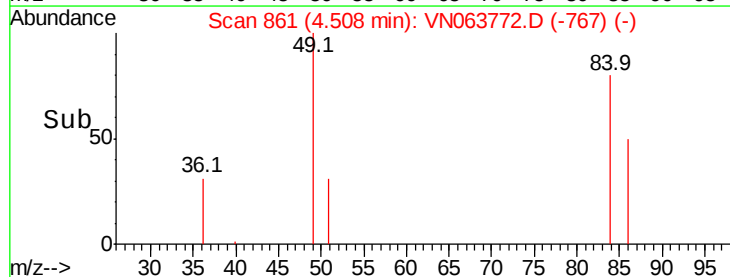
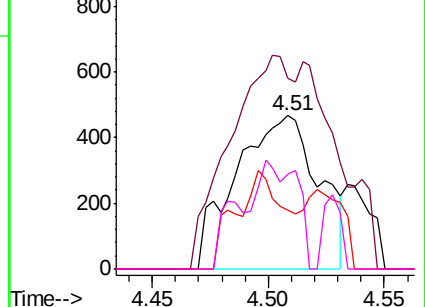


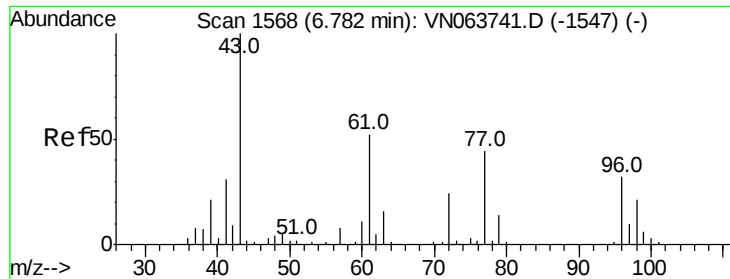
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

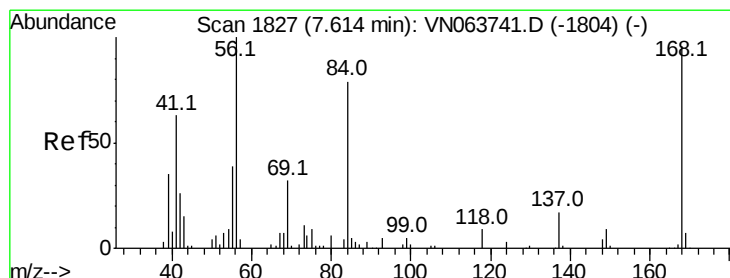
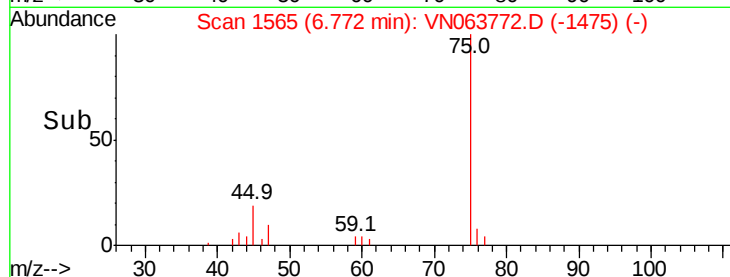
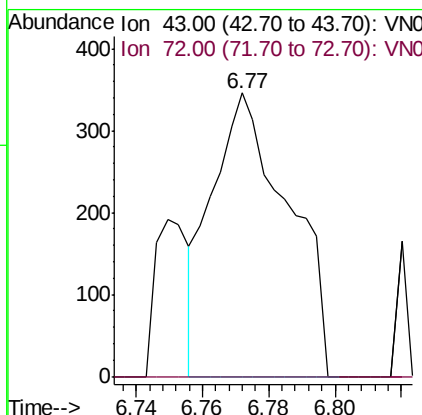
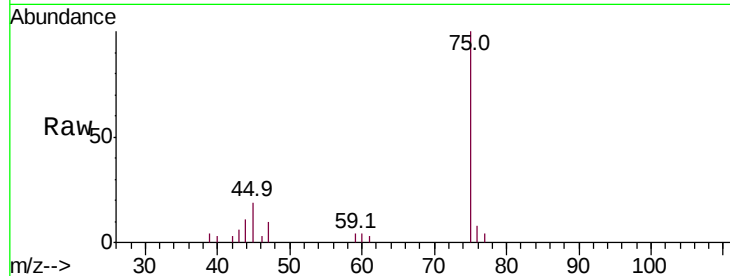




#25  
2-Butanone  
Concen: 0.357 ug/l  
RT: 6.77 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

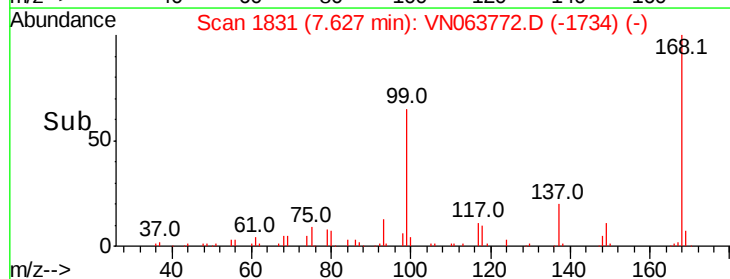
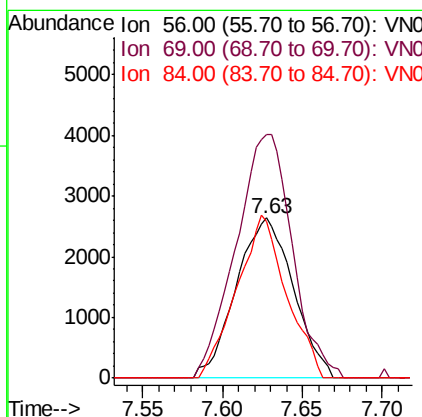
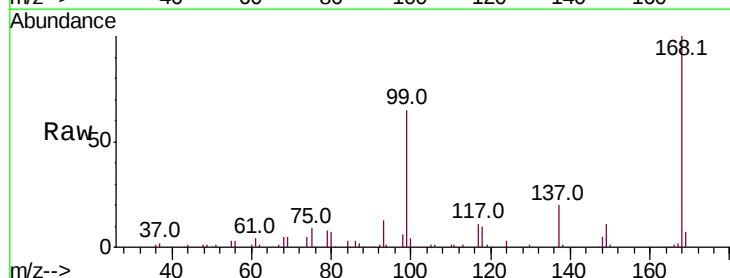
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

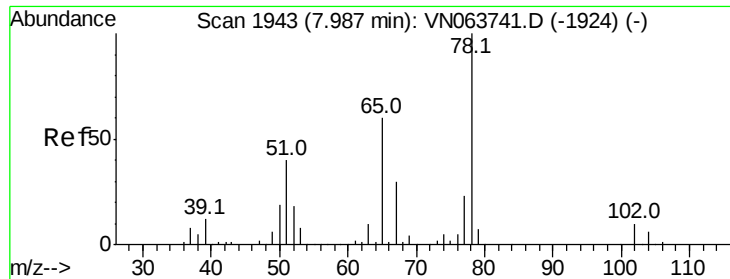
Tot Ion: 43 Resp: 553  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.3 28.9#



#31  
Cyclohexane  
Concen: 1.570 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. 0.01 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

Tgt Ion: 56 Resp: 6466  
Ion Ratio Lower Upper  
56 100  
69 151.9 25.4 38.2#  
84 98.2 63.3 94.9#

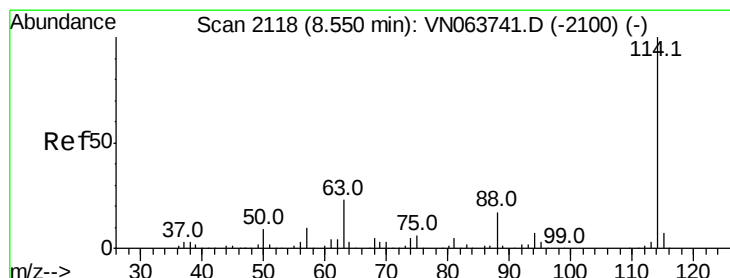
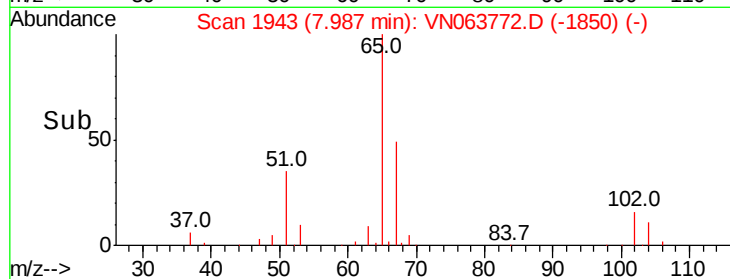
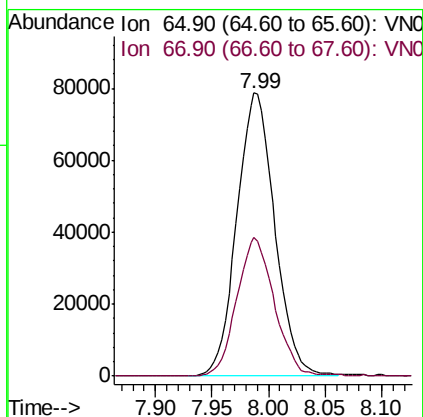
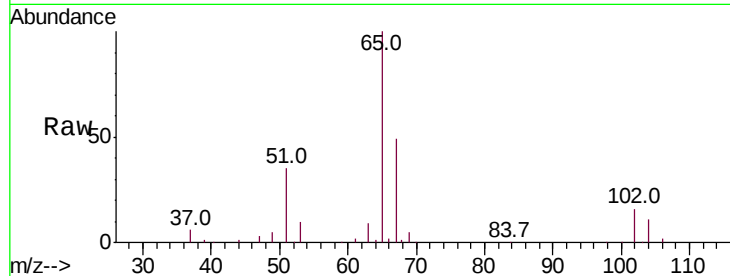




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.757 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VN063772.D  
 Acq: 1 Oct 2020 15:22

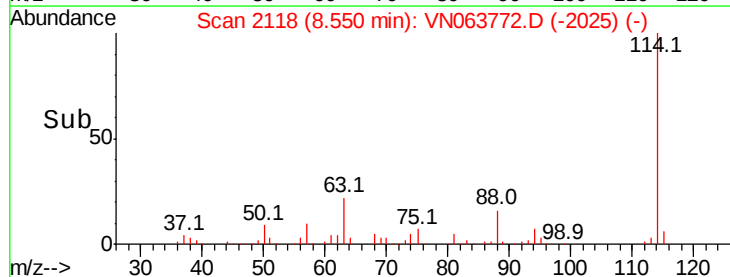
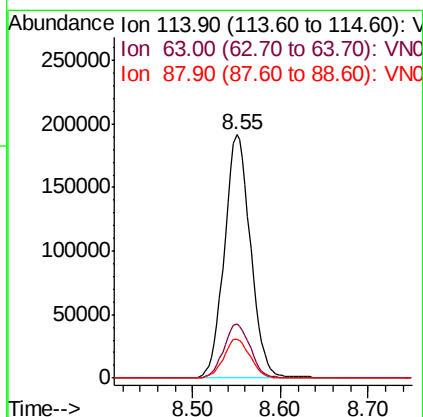
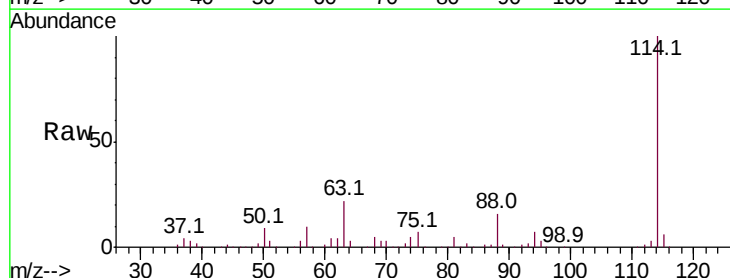
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

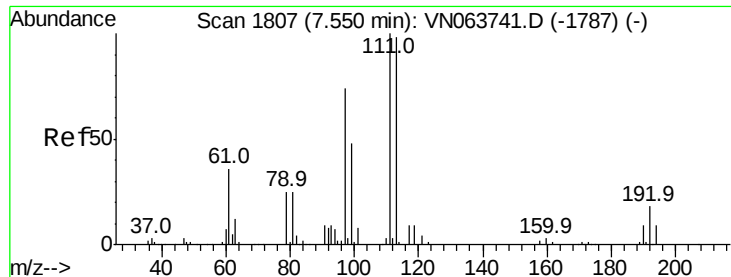
Tot Ion: 65 Resp: 183665  
 Ion Ratio Lower Upper  
 65 100  
 67 48.7 0.0 99.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN063772.D  
 Acq: 1 Oct 2020 15:22

Tgt Ion: 114 Resp: 397969  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 45.0  
 88 15.9 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.769 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

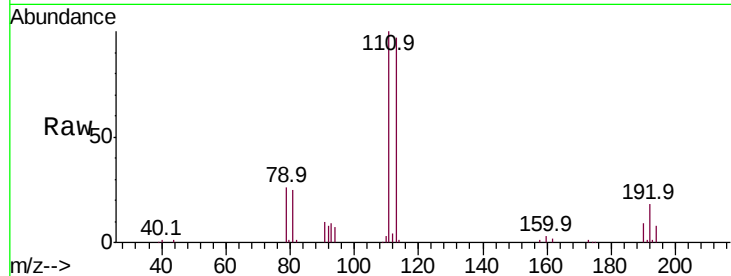
Tot Ion:113 Resp: 131911

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

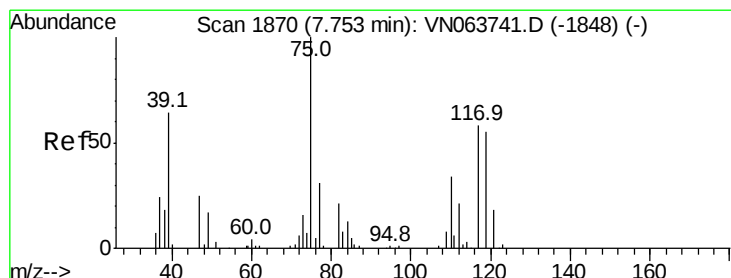
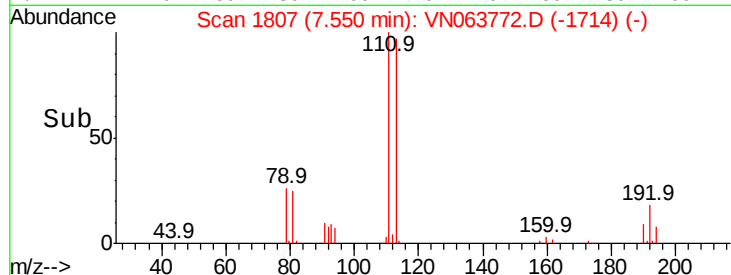
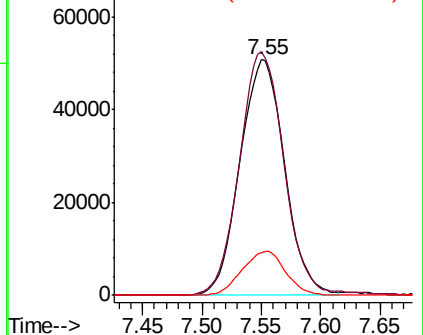
192 18.3 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.939 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

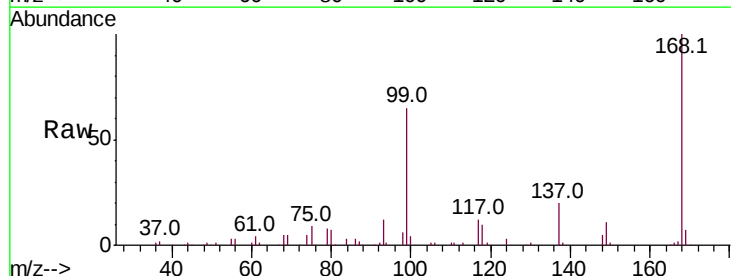
Tgt Ion: 75 Resp: 19915

Ion Ratio Lower Upper

75 100

110 3.5 16.9 50.6#

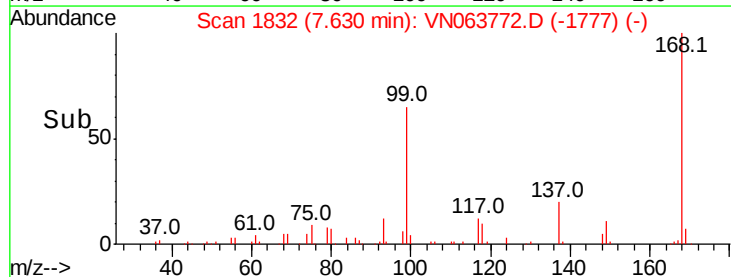
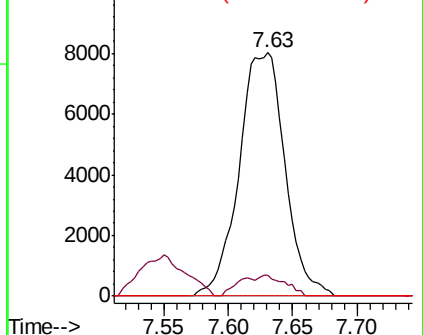
77 0.0 24.5 36.7#

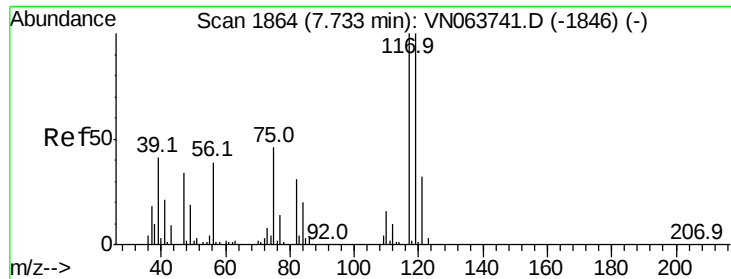


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

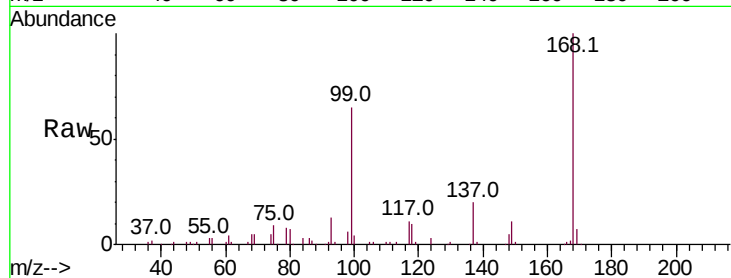




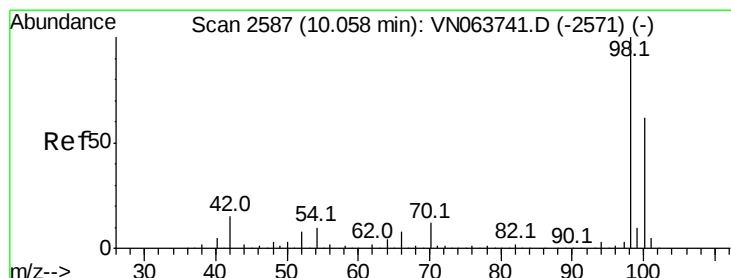
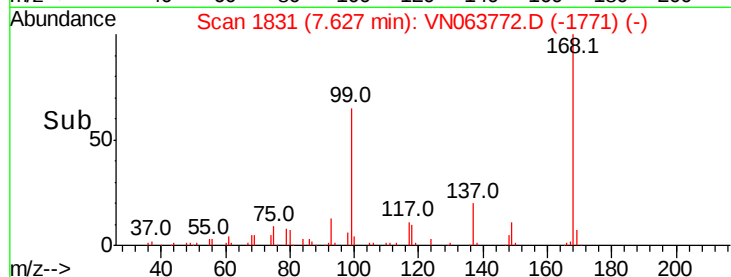
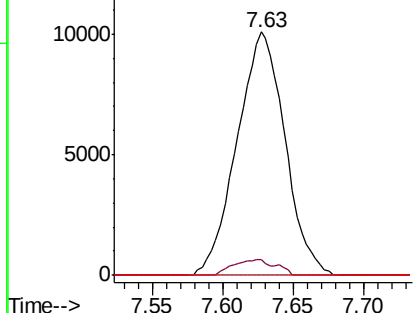
#38  
Carbon Tetrachloride  
Concen: 5.305 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. -0.11 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 23983  
Ion Ratio Lower Upper  
117 100  
119 6.5 80.1 120.1#  
121 0.0 25.7 38.5#

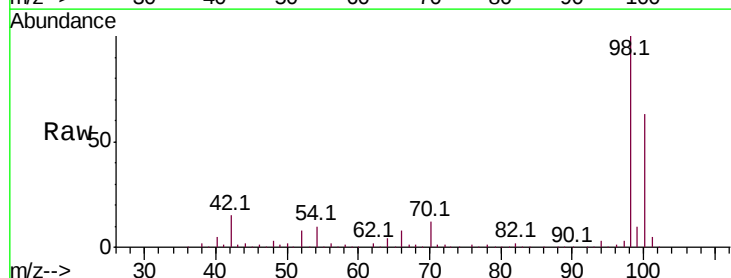


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

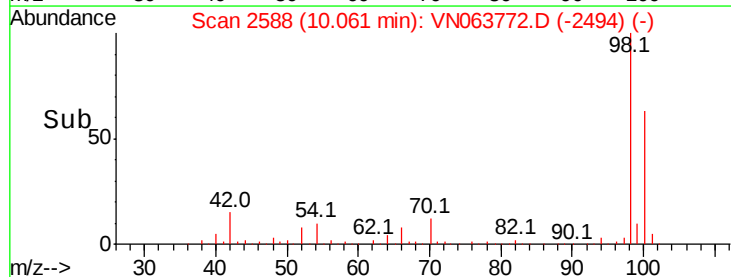
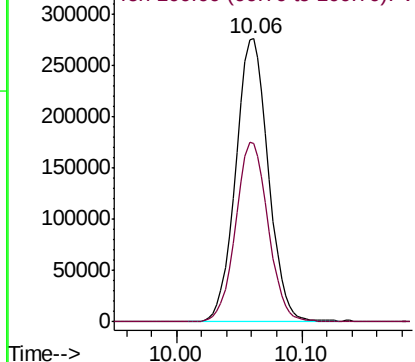


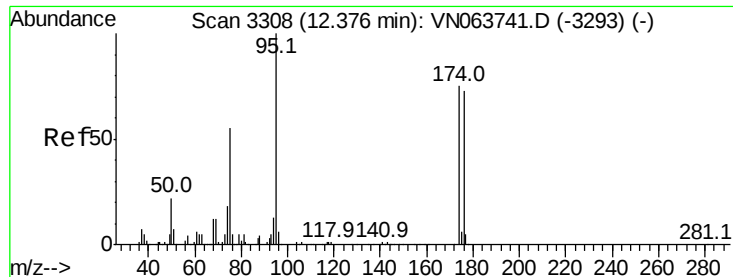
#50  
Toluene-d8  
Concen: 47.630 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

Tgt Ion: 98 Resp: 498599  
Ion Ratio Lower Upper  
98 100  
100 63.3 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN  
Ion 100.00 (99.70 to 100.70): VN

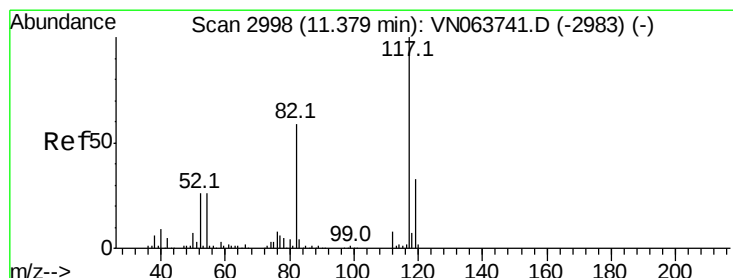
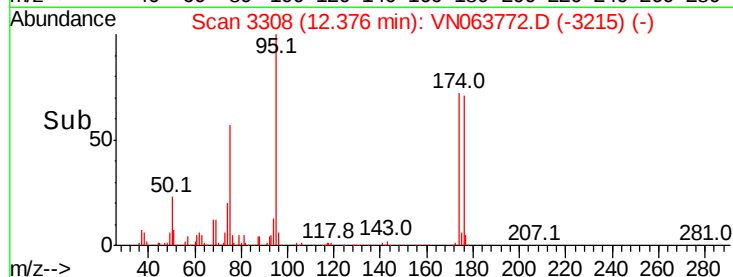
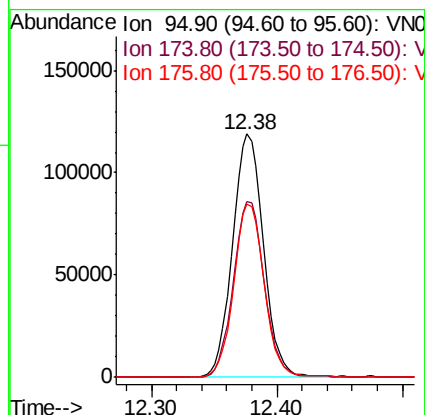
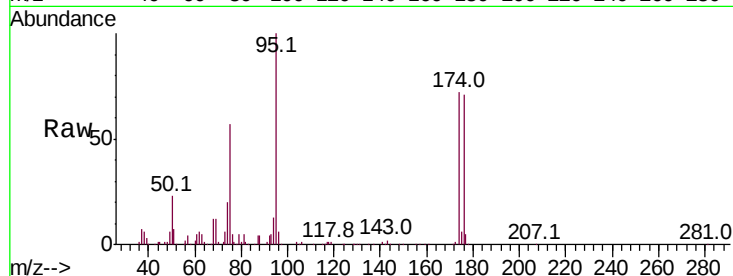




#62  
4-Bromofluorobenzene  
Concen: 51.803 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

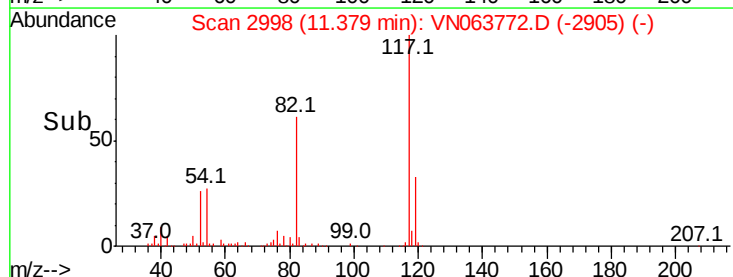
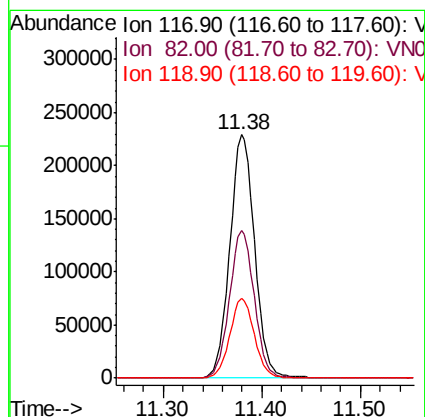
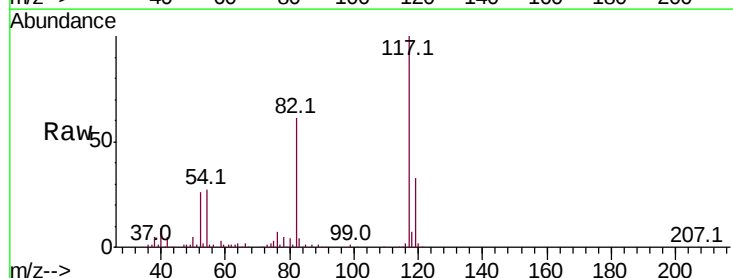
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

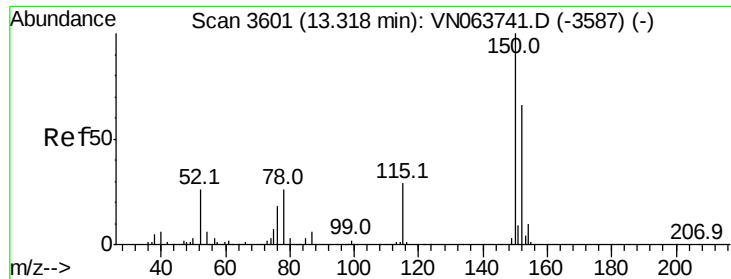
Tot Ion: 95 Resp: 203851  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 150.6  
176 70.1 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

Tgt Ion: 117 Resp: 403201  
Ion Ratio Lower Upper  
117 100  
82 60.9 47.4 71.2  
119 32.6 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

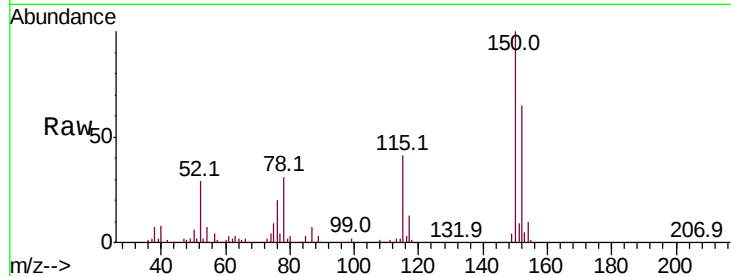
Tot Ion:152 Resp: 169894

Ion Ratio Lower Upper

152 100

115 64.8 31.3 93.8

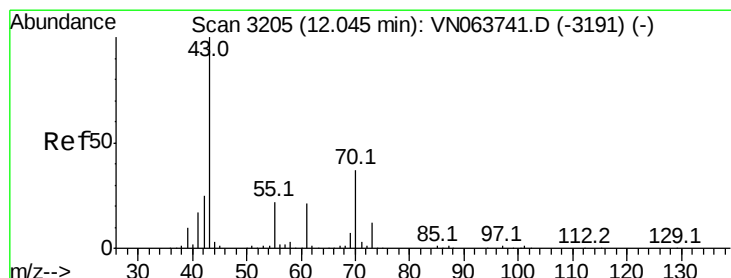
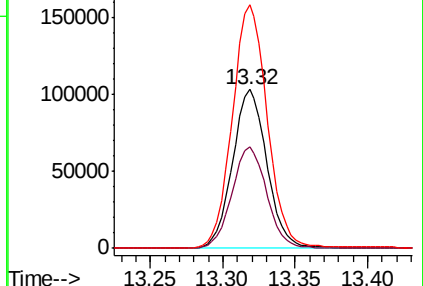
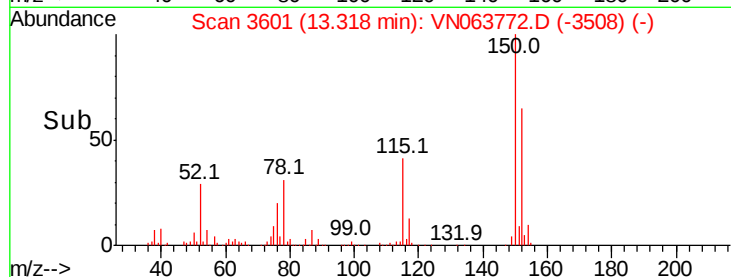
150 156.4 0.0 341.8



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



#74

N-ethyl acetate

Concen: 2.271 ug/l

RT: 12.02 min Scan# 3198

Delta R.T. -0.02 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Tgt Ion: 43 Resp: 331

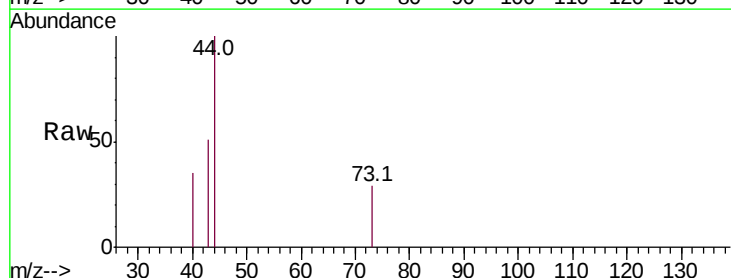
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

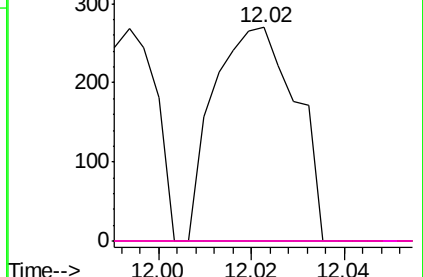
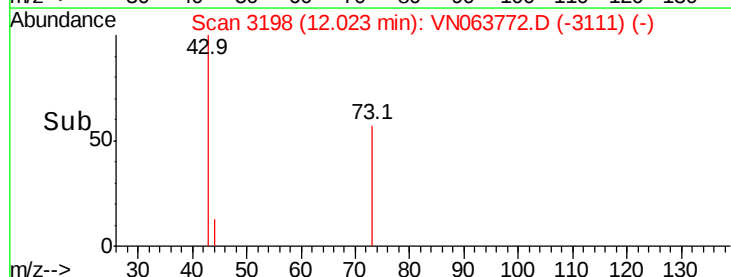


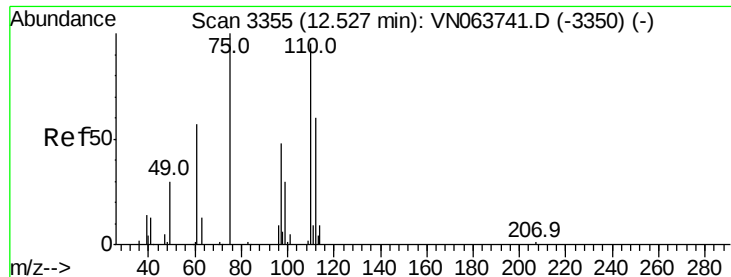
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.715 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

Instrument :

MSVOA\_N

ClientSampleId :

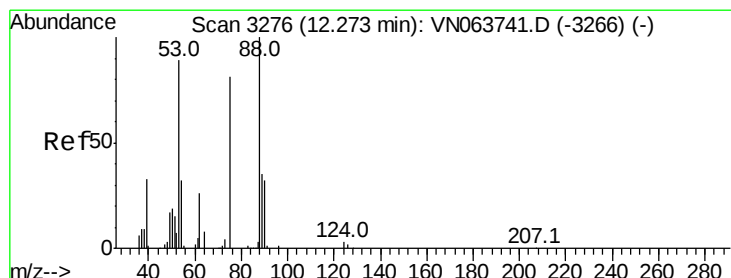
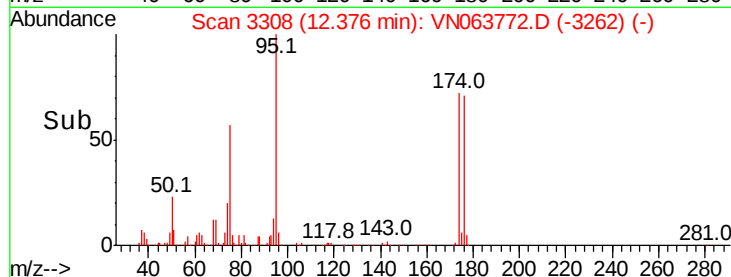
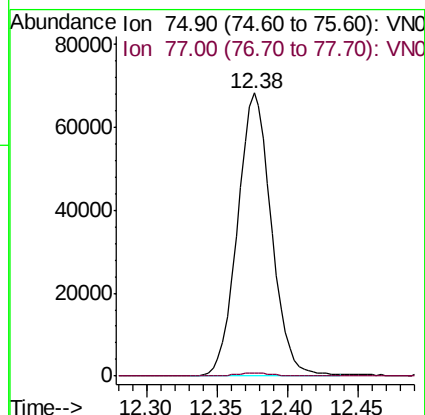
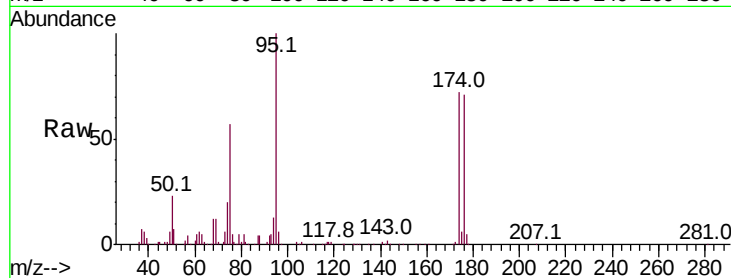
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 75 Resp: 115031

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.463 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063772.D

Acq: 1 Oct 2020 15:22

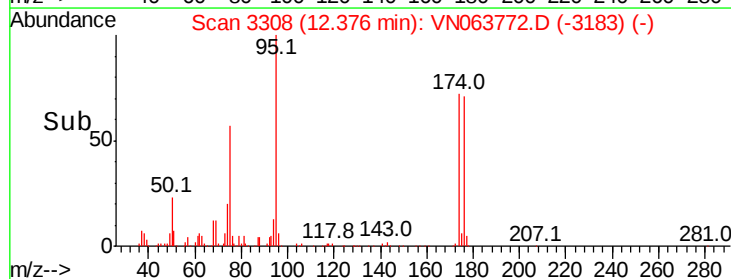
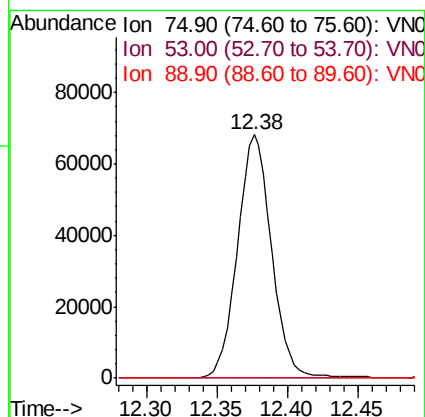
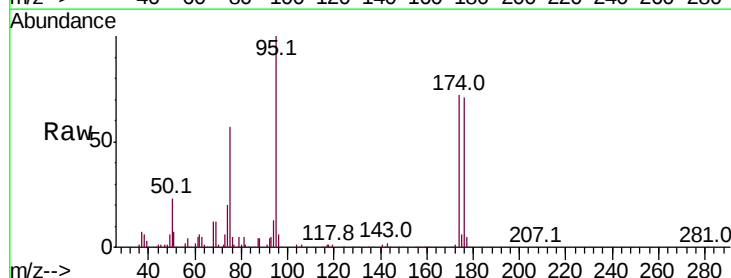
Tgt Ion: 75 Resp: 115031

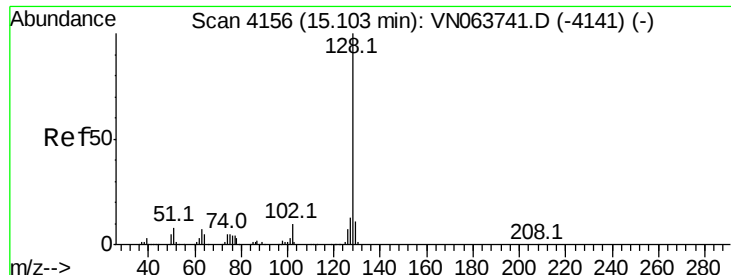
Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#





#95  
Naphthalene  
Concen: 1.951 ug/l  
RT: 15.13 min Scan# 4164  
Delta R.T. 0.03 min  
Lab File: VN063772.D  
Acq: 1 Oct 2020 15:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:128 Resp: 249  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.7 13.1#

