

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\  
 Data File : VN062186.D  
 Acq On : 29 Jun 2020 14:29  
 Operator : JC/MD  
 Sample : L3129-06 10X  
 Misc : 1.09g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

Quant Time: Jun 30 04:25:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 214089   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 405968   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 388225   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 149722   | 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   | 155907   | 51.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.78% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 126851   | 48.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.40%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 508129   | 48.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.62%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 175270   | 49.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.66%  |          |

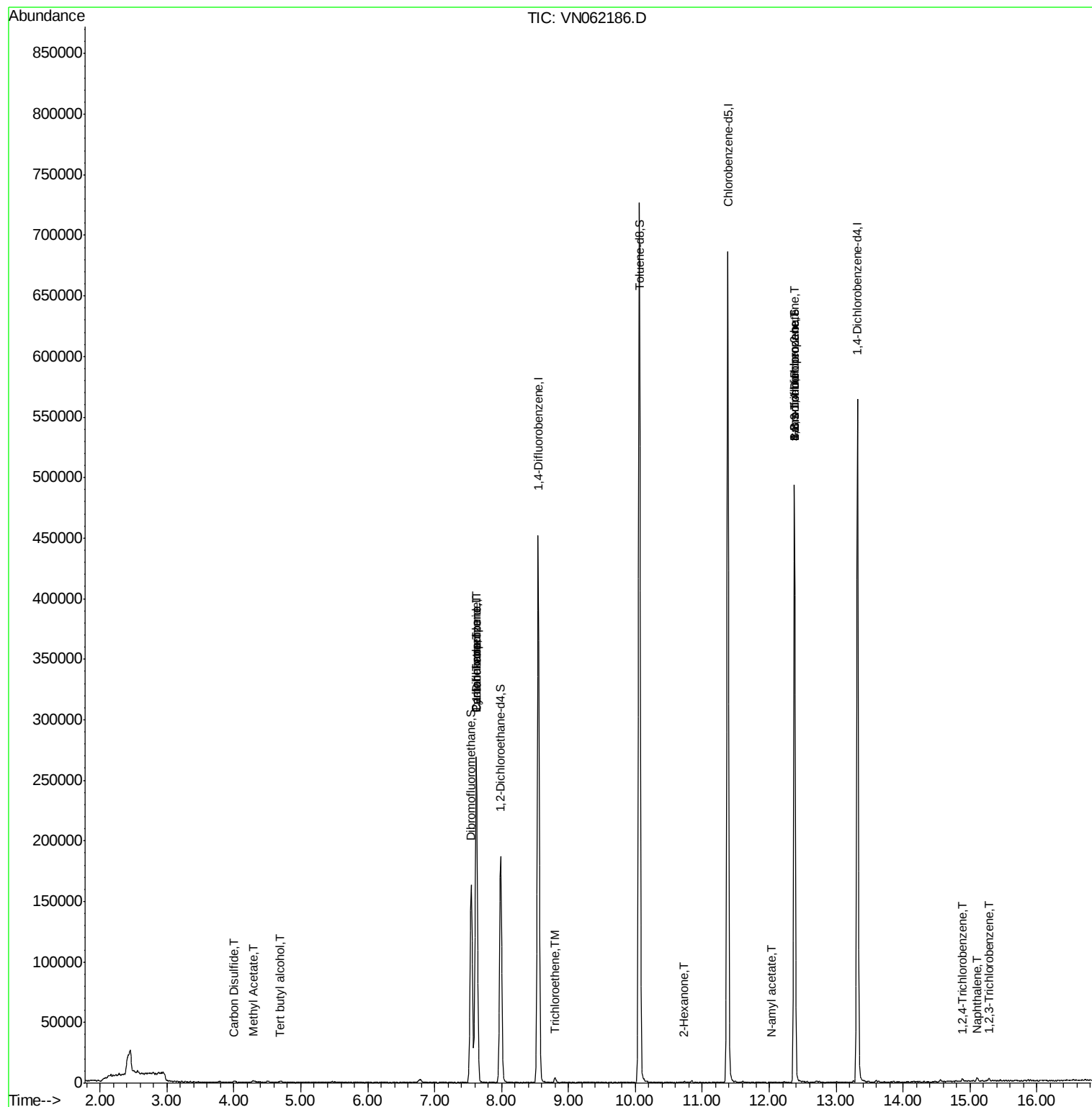
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 334      | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 4.68  | 59   | 273      | 0.633     | ug/l # | 72     |
| 16) Acetone                    | 3.78  | 43   | 497      | Below Cal | #      | 40     |
| 17) Carbon Disulfide           | 4.01  | 76   | 1973     | 0.330     | ug/l # | 75     |
| 18) Methyl Acetate             | 4.28  | 43   | 1504     | 0.630     | ug/l # | 63     |
| 20) Methylene Chloride         | 4.50  | 84   | 584      | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.62  | 56   | 4762     | 1.147     | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 18163    | 4.451     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 21492    | 5.587     | ug/l # | 15     |
| 44) Trichloroethene            | 8.80  | 130  | 1515     | 0.483     | ug/l   | 100    |
| 59) 2-Hexanone                 | 10.74 | 43   | 724      | 0.312     | ug/l   | 66     |
| 71) Bromoform                  | 12.38 | 173  | 1518     | 0.724     | ug/l # | 1      |
| 74) N-amyl acetate             | 12.04 | 43   | 123      | 3.370     | ug/l # | 38     |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 89355    | 25.352    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 89355    | 74.037    | ug/l # | 13     |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180  | 877      | 0.410     | ug/l   | 92     |
| 95) Naphthalene                | 15.10 | 128  | 3675     | 4.469     | ug/l # | 90     |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 1121     | 0.512     | ug/l # | 73     |

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

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Sample : L3129-06 10X  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
1399-1400

Quant Time: Jun 30 04:25:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 24 15:33:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampleId :

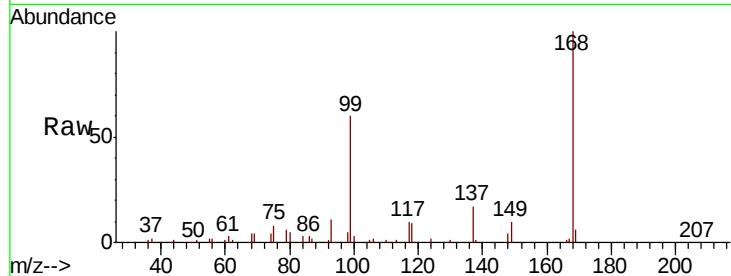
1399-1400

Tot Ion:168 Resp: 214089

Ion Ratio Lower Upper

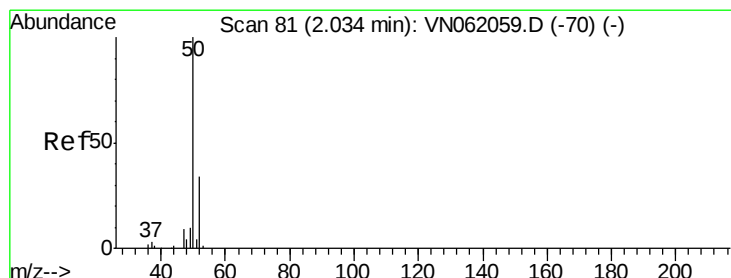
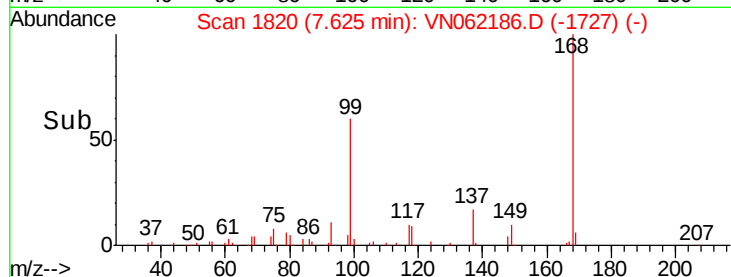
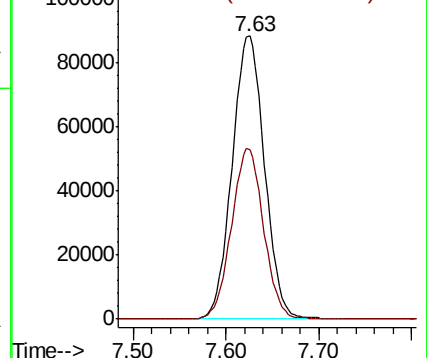
168 100

99 59.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062186.D

Ion 98.90 (98.60 to 99.60): VN062186.D



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062186.D

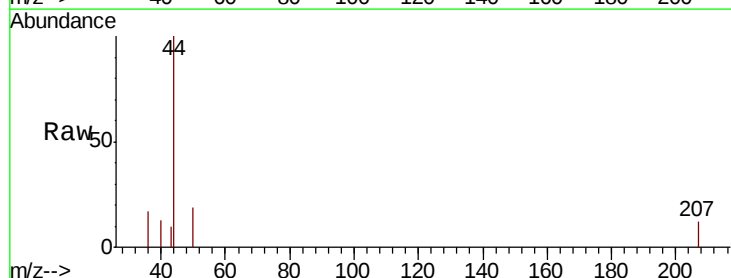
Acq: 29 Jun 2020 14:29

Tgt Ion: 50 Resp: 334

Ion Ratio Lower Upper

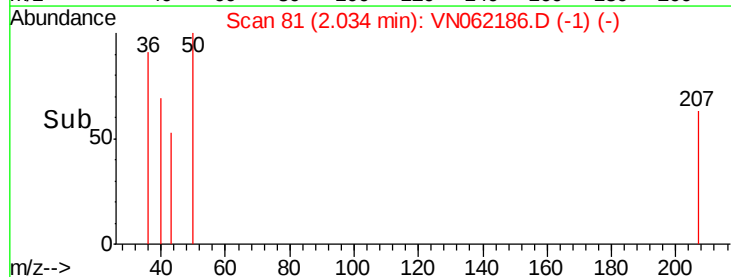
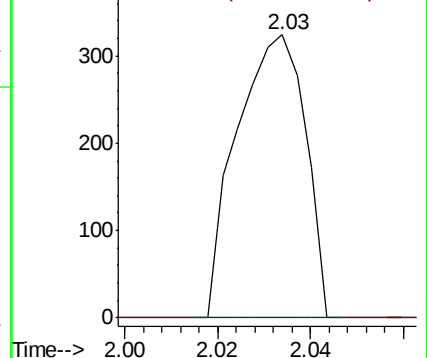
50 100

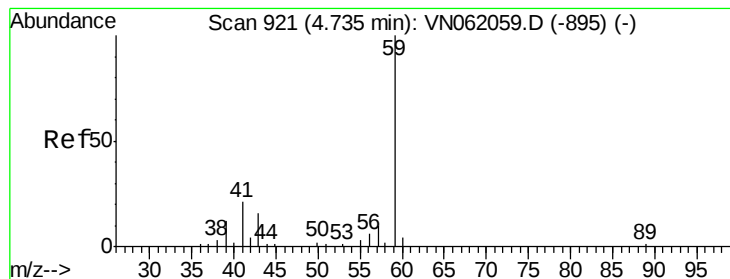
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062186.D

Ion 51.90 (51.60 to 52.60): VN062186.D



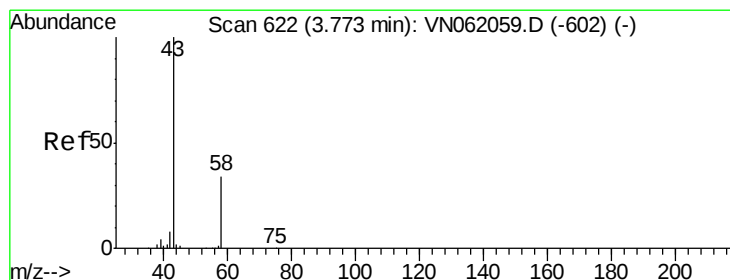
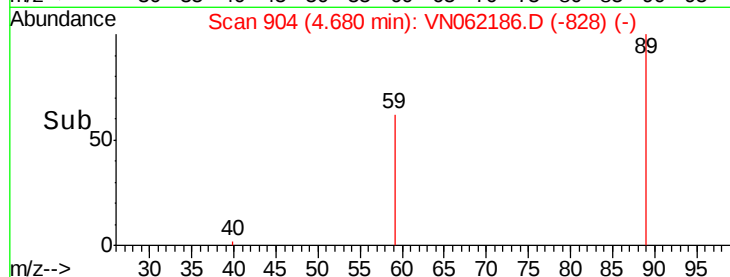
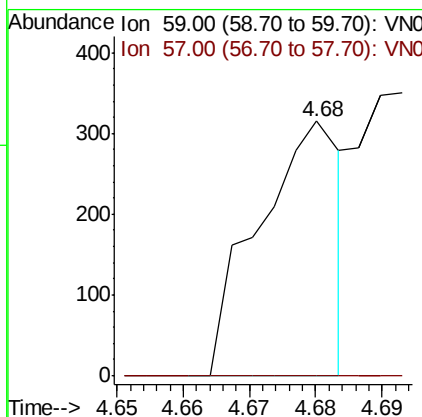
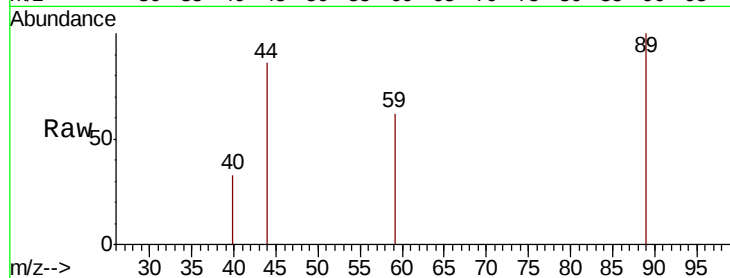


#11

Tert butyl alcohol  
 Concen: 0.633 ug/l  
 RT: 4.68 min Scan# 904  
 Delta R.T. -0.05 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

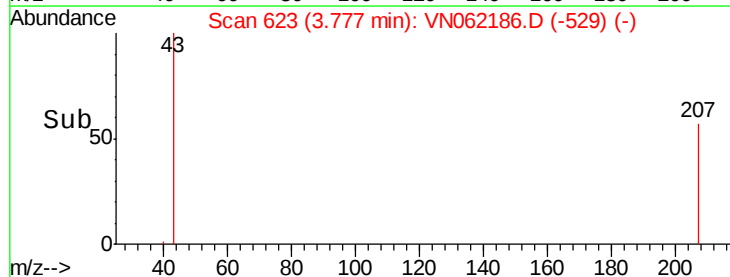
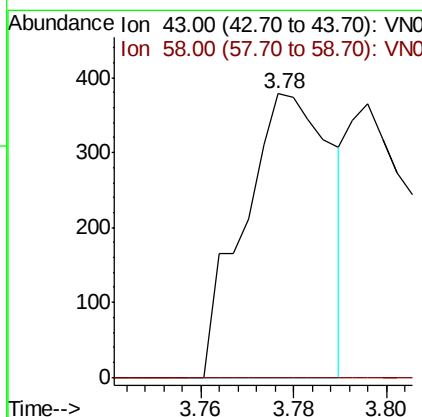
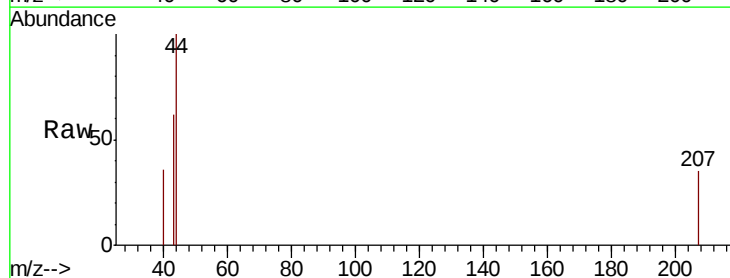
Tot Ion: 59 Resp: 273  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

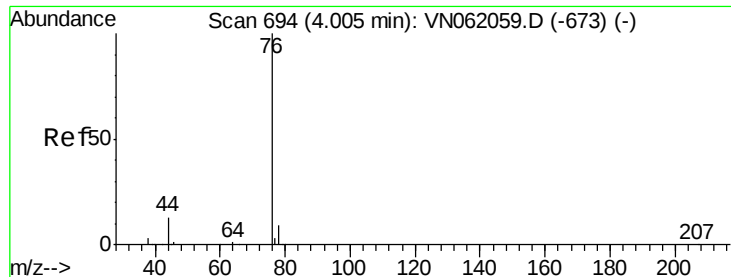


#16

Acetone  
 Concen: Below Cal  
 RT: 3.78 min Scan# 623  
 Delta R.T. 0.00 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Tgt Ion: 43 Resp: 497  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 27.5 41.3#





#17

Carbon Disulfide

Concen: 0.330 ug/l

RT: 4.01 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampleId :

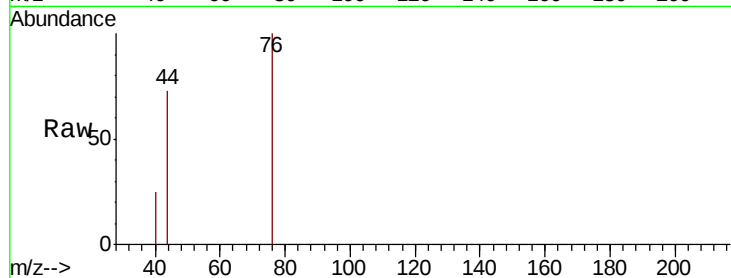
1399-1400

Tot Ion: 76 Resp: 1973

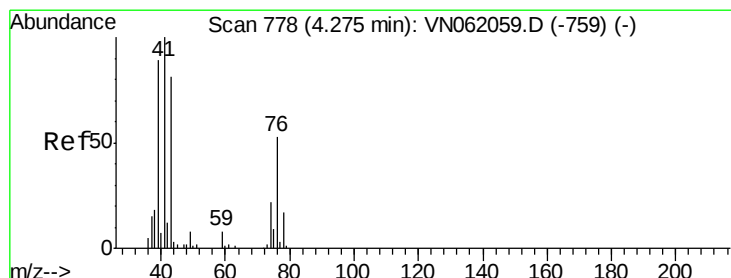
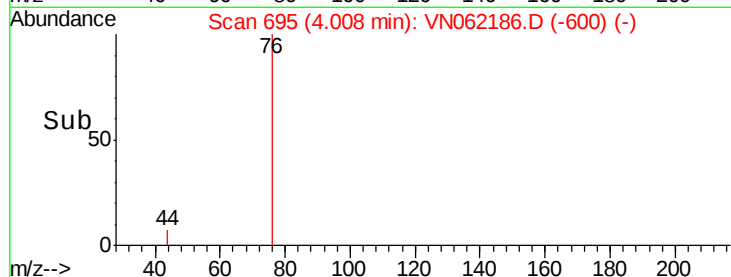
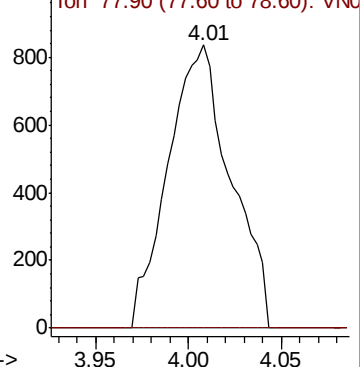
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062059.D (-673) (-)



#18

Methyl Acetate

Concen: 0.630 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062186.D

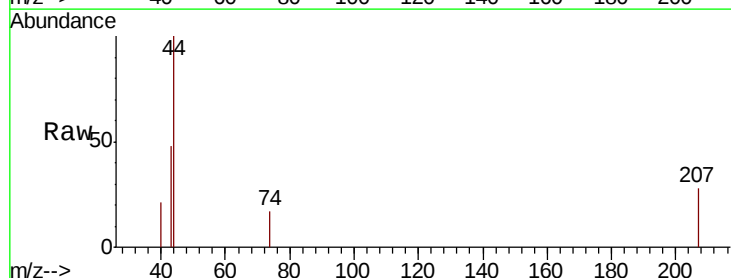
Acq: 29 Jun 2020 14:29

Tgt Ion: 43 Resp: 1504

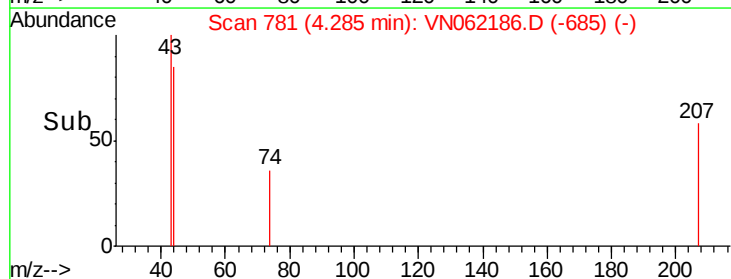
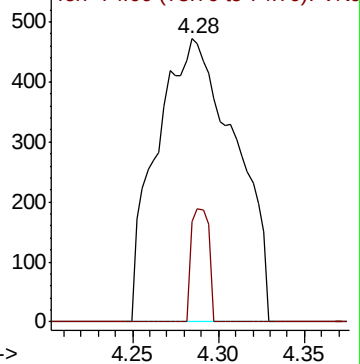
Ion Ratio Lower Upper

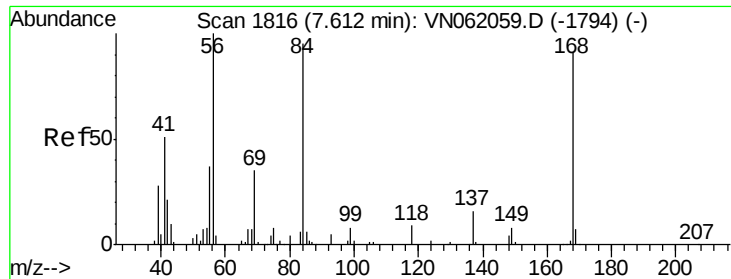
43 100

74 9.1 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062186.D (-685) (-)

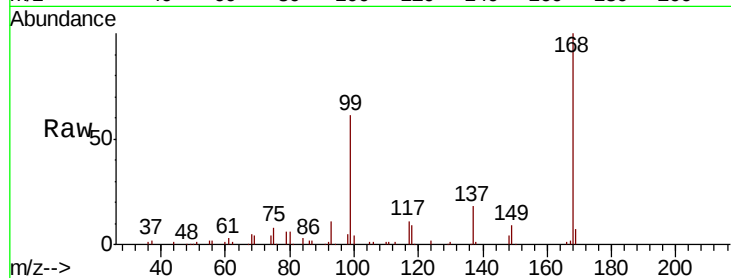




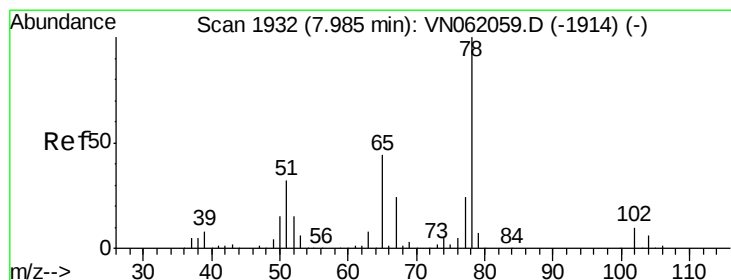
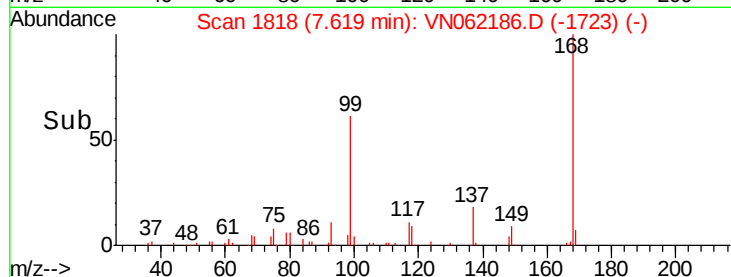
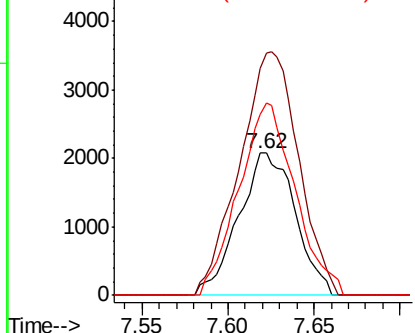
#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 7.62 min Scan# 1816  
Delta R.T. 0.01 min  
Lab File: VN062186.D  
Acq: 29 Jun 2020 14:29

Instrument :  
MSVOA\_N  
ClientSampled :  
1399-1400

Tot Ion: 56 Resp: 4762  
Ion Ratio Lower Upper  
56 100  
69 159.3 28.0 42.0#  
84 126.9 76.1 114.1#

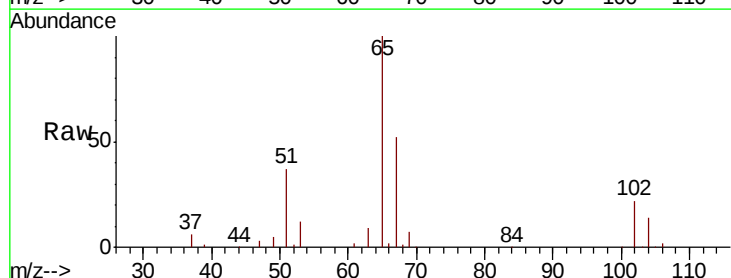


Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC

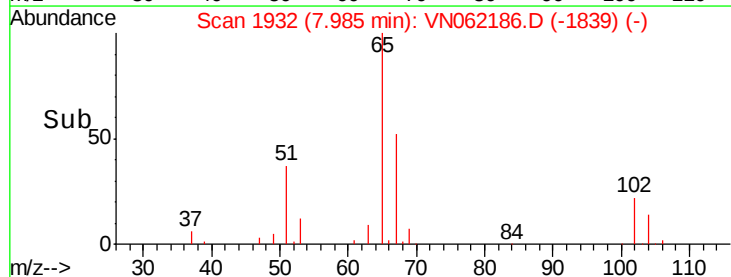
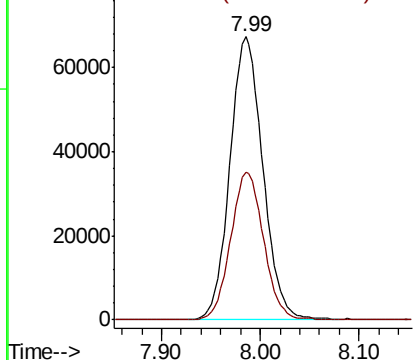


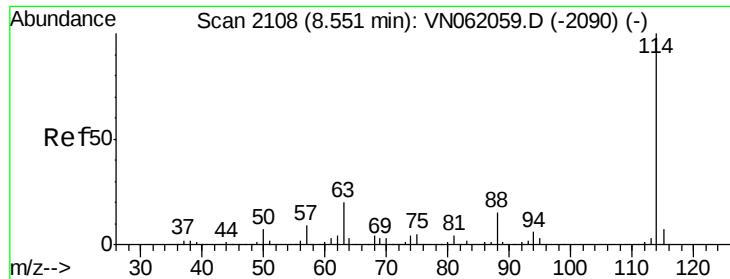
#33  
1,2-Dichloroethane-d4  
Concen: 51.893 ug/l  
RT: 7.99 min Scan# 1932  
Delta R.T. 0.00 min  
Lab File: VN062186.D  
Acq: 29 Jun 2020 14:29

Tgt Ion: 65 Resp: 155907  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 106.2



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

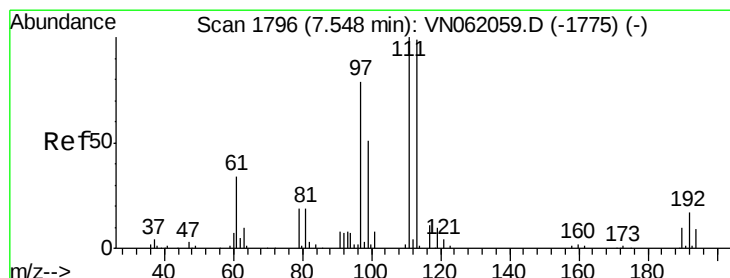
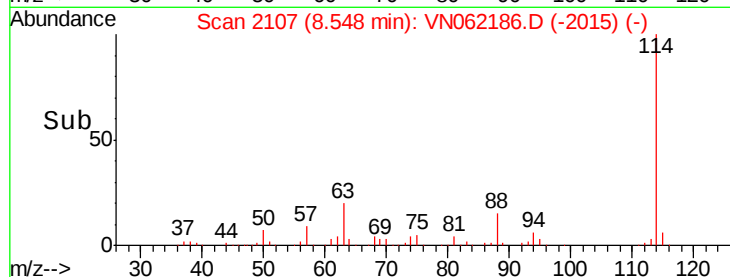
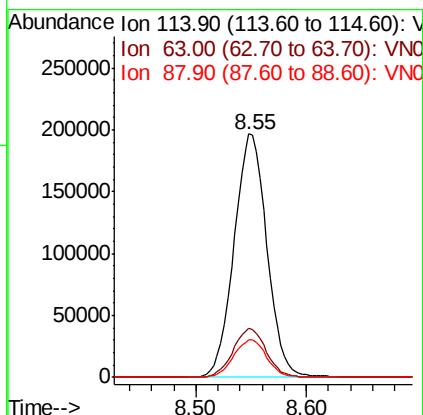
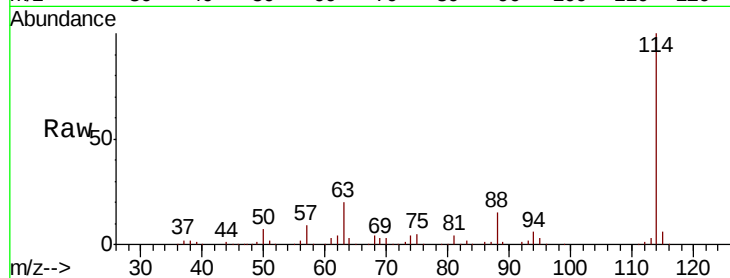




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

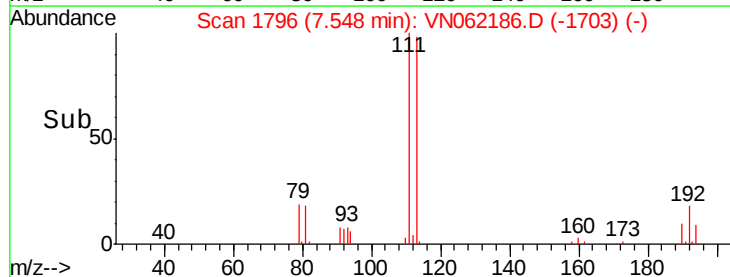
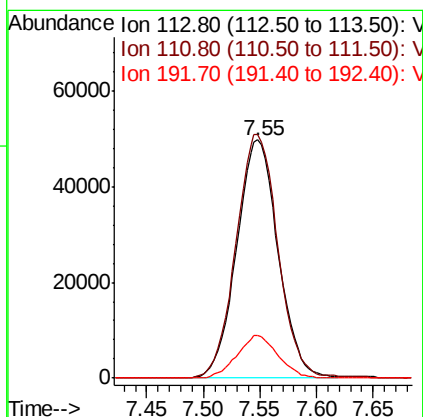
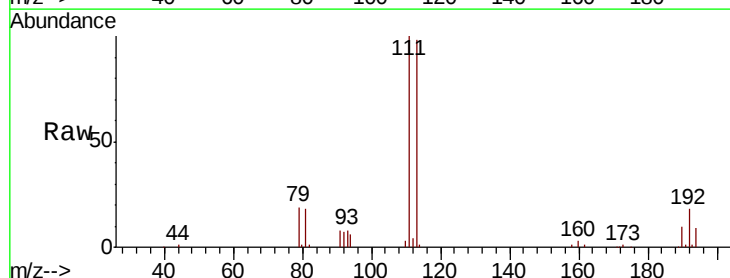
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

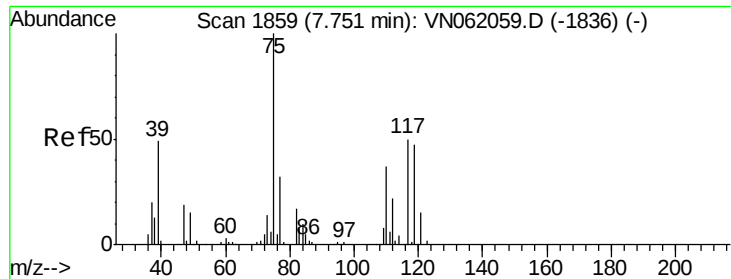
Tot Ion:114 Resp: 405968  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 39.2  
 88 15.3 0.0 30.8



#35  
 Dibromofluoromethane  
 Concen: 48.705 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Tgt Ion:113 Resp: 126851  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 82.2 123.4  
 192 17.5 14.0 21.0

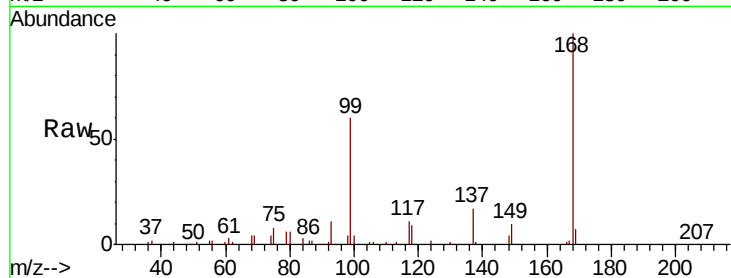




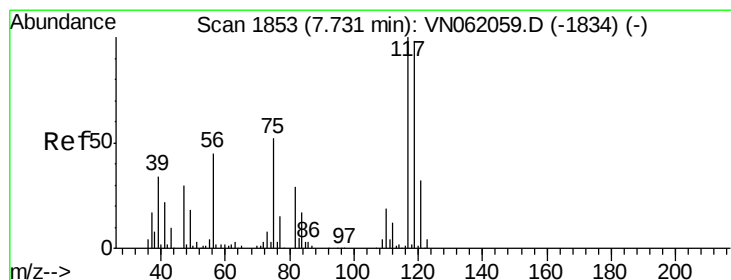
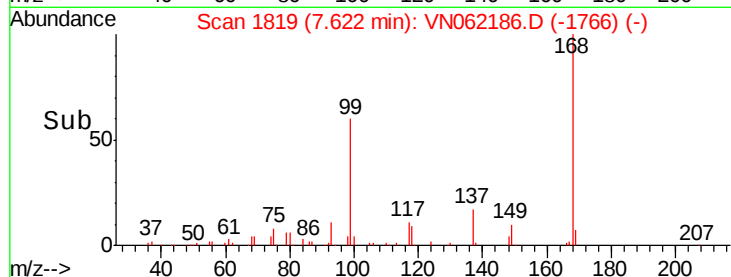
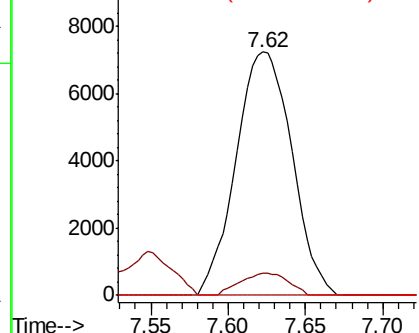
#36  
 1,1-Dichloropropene  
 Concen: 4.451 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

| Tot Ion   | 75  | Resp  | 18163 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 7.9 | 17.9  | 53.8# |
| 77        | 0.0 | 24.9  | 37.3# |

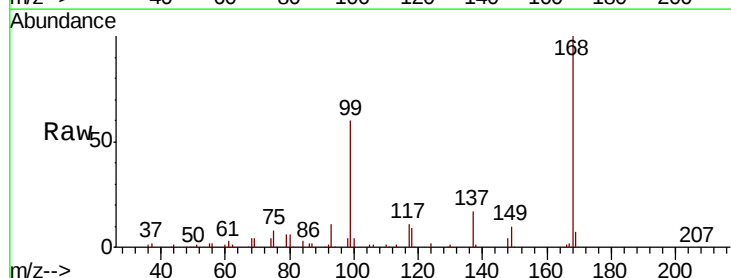


Abundance Ion 74.90 (74.60 to 75.60): VN0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VN0

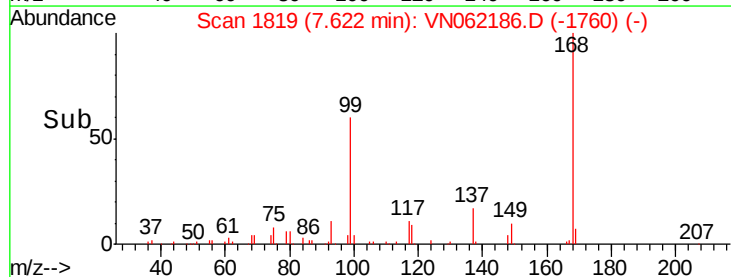
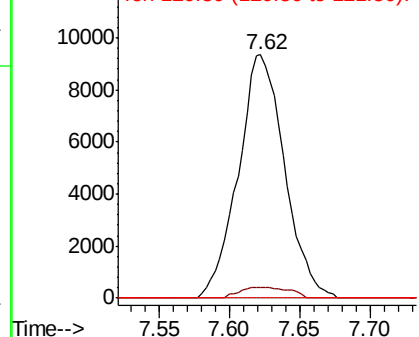


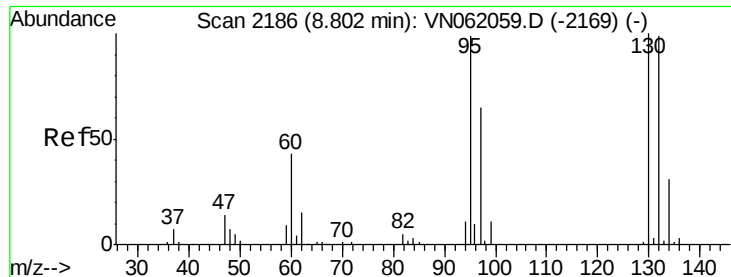
#38  
 Carbon Tetrachloride  
 Concen: 5.587 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.11 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

| Tgt Ion                                              | 117 | Resp  | 21492  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 4.4 | 78.2  | 117.2# |
| 121                                                  | 0.0 | 25.8  | 38.6#  |



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





#44

Trichloroethene

Concen: 0.483 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampled :

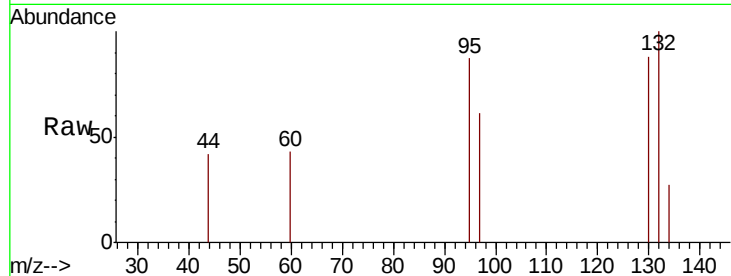
1399-1400

Tot Ion:130 Resp: 1515

Ion Ratio Lower Upper

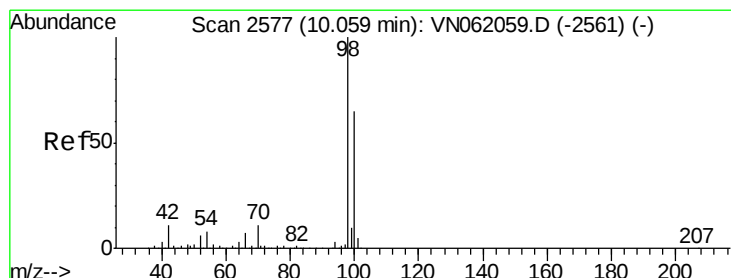
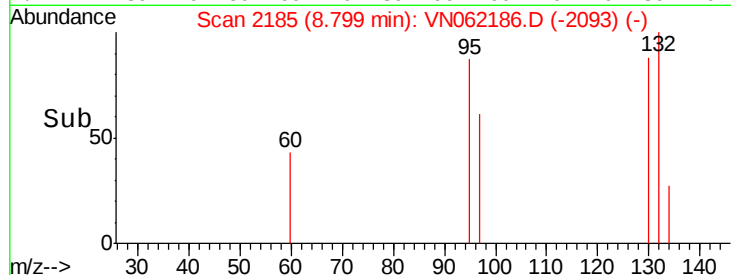
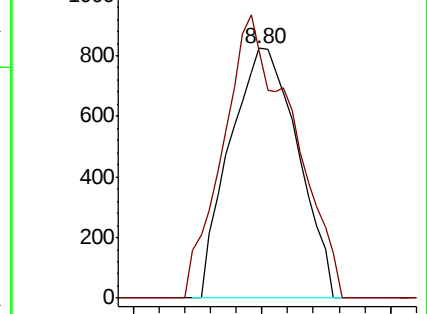
130 100

95 99.0 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 48.807 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062186.D

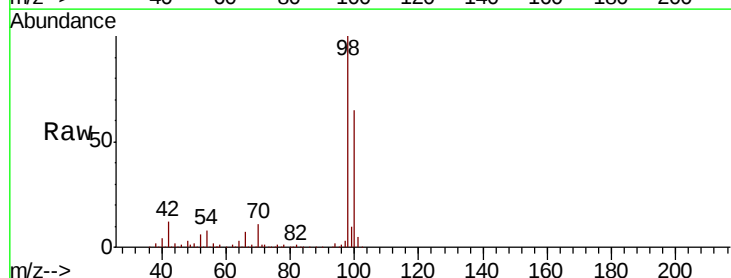
Acq: 29 Jun 2020 14:29

Tgt Ion: 98 Resp: 508129

Ion Ratio Lower Upper

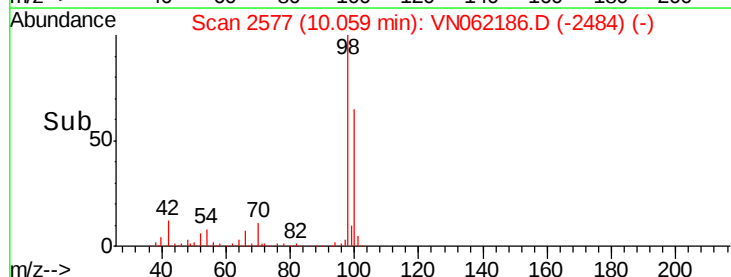
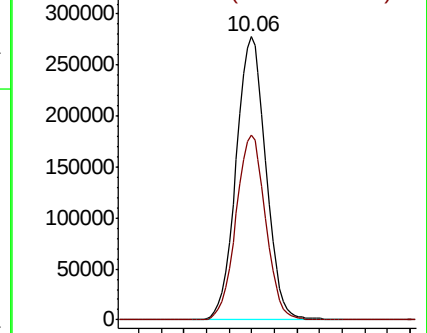
98 100

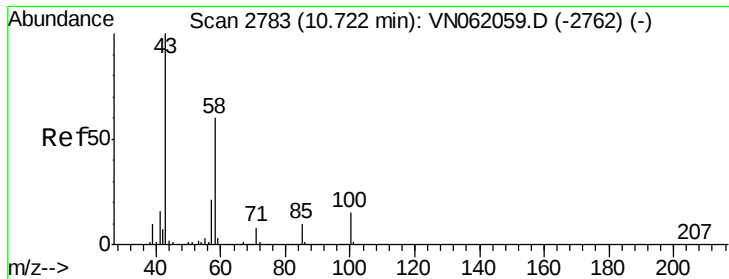
100 65.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#59

2-Hexanone

Concen: 0.312 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampled :

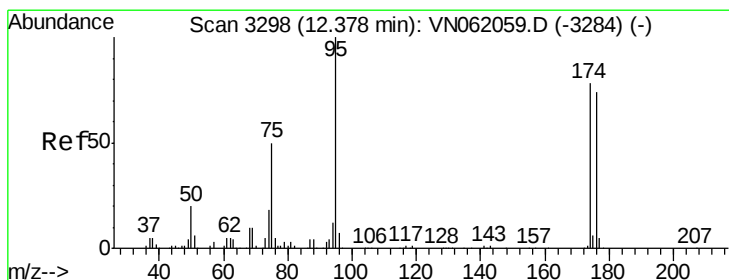
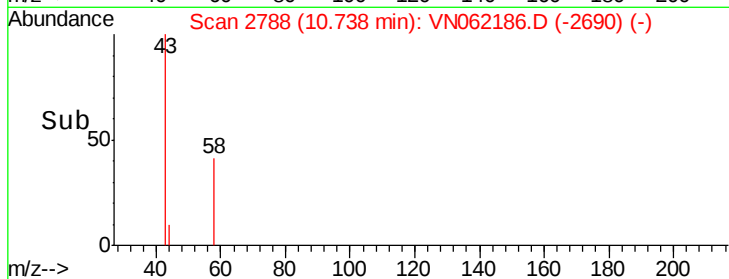
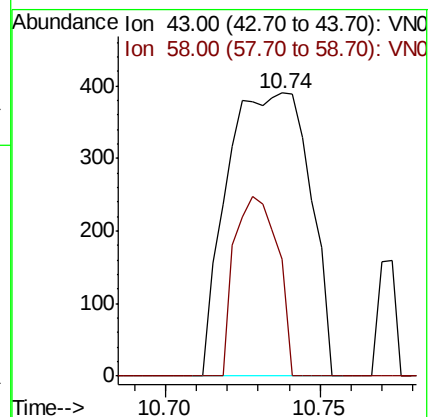
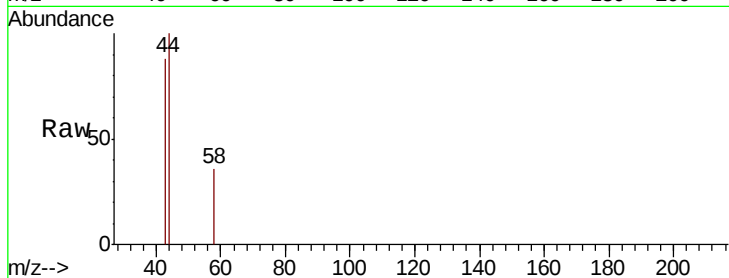
1399-1400

Tot Ion: 43 Resp: 724

Ion Ratio Lower Upper

43 100

58 33.1 29.5 88.5



#62

4-Bromofluorobenzene

Concen: 49.829 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

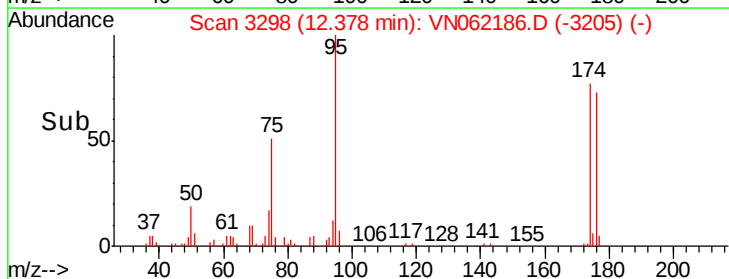
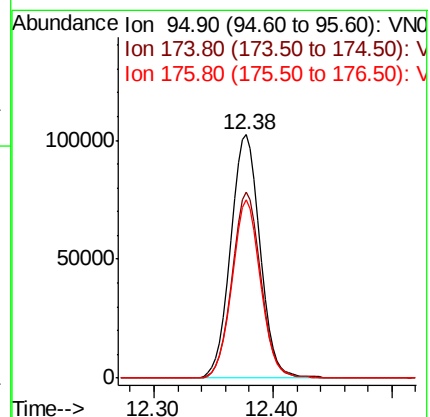
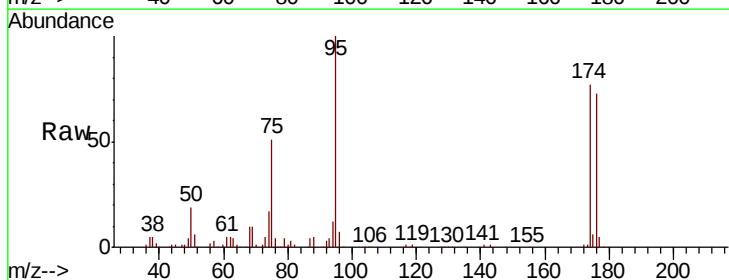
Tgt Ion: 95 Resp: 175270

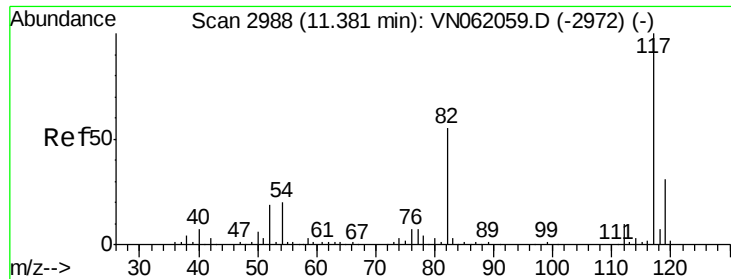
Ion Ratio Lower Upper

95 100

174 75.0 0.0 154.8

176 71.5 0.0 147.4

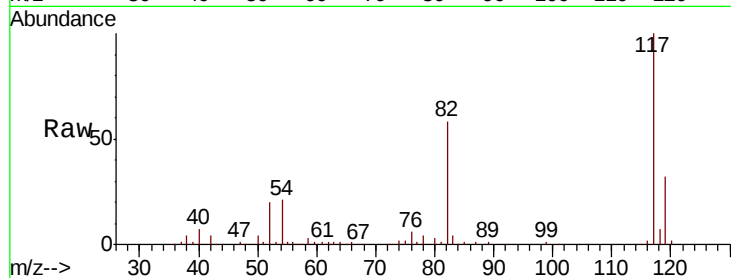




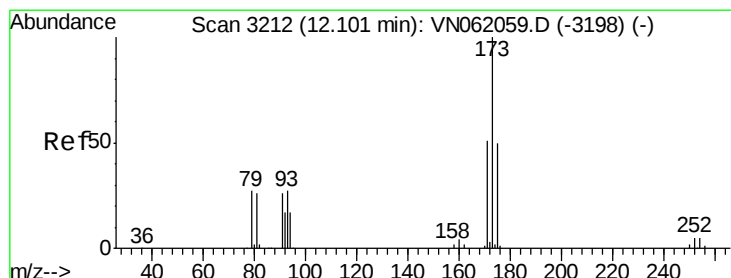
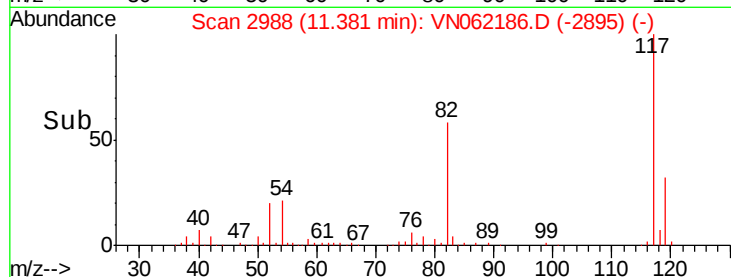
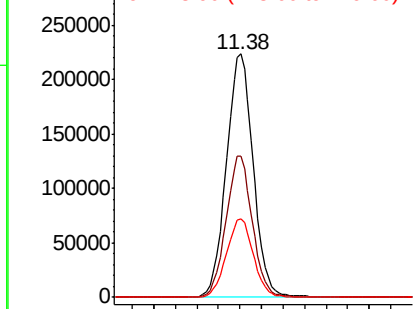
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. 0.00 min  
Lab File: VN062186.D  
Acq: 29 Jun 2020 14:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
1399-1400

Tot Ion:117 Resp: 388225  
Ion Ratio Lower Upper  
117 100  
82 58.0 43.8 65.8  
119 32.3 25.2 37.8

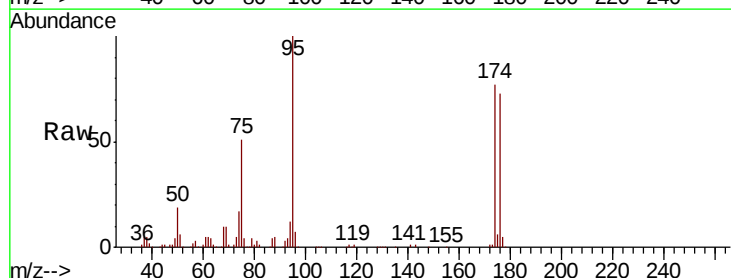


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

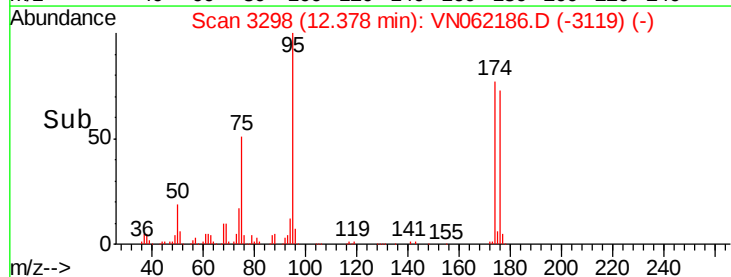
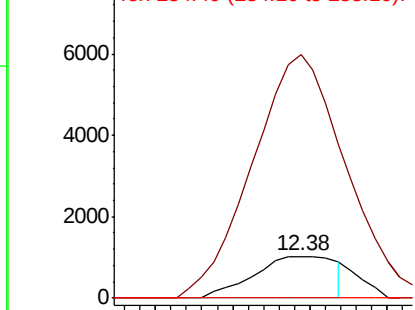


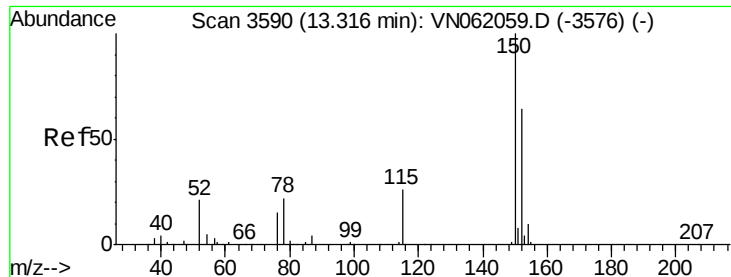
#71  
Bromoform  
Concen: 0.724 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.28 min  
Lab File: VN062186.D  
Acq: 29 Jun 2020 14:29

Tgt Ion:173 Resp: 1518  
Ion Ratio Lower Upper  
173 100  
175 555.5 24.7 74.1#  
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# 3591

Delta R.T. 0.00 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampleId :

1399-1400

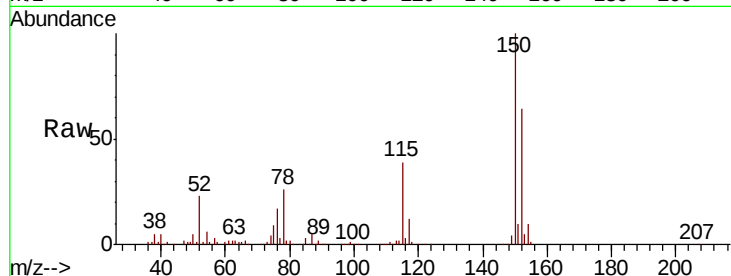
Tot Ion:152 Resp: 149722

Ion Ratio Lower Upper

152 100

115 59.7 29.5 88.5

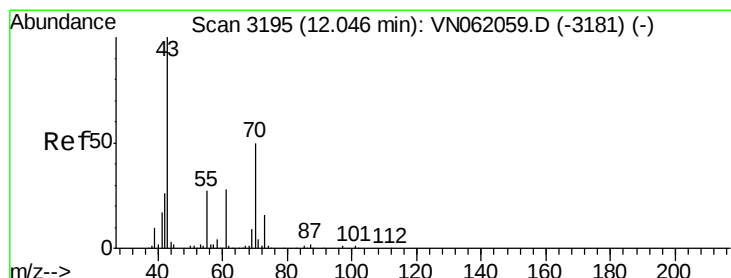
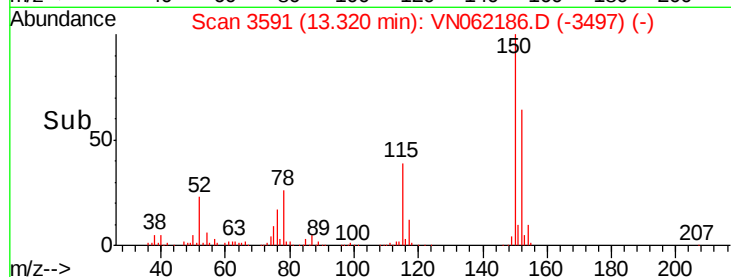
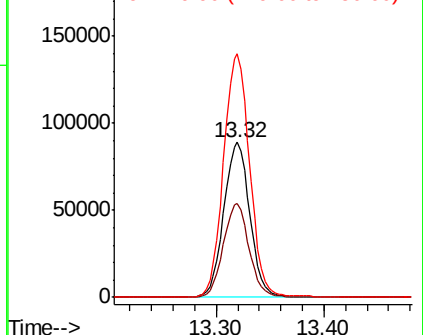
150 157.8 0.0 351.4



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: 3.370 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Tgt Ion: 43 Resp: 123

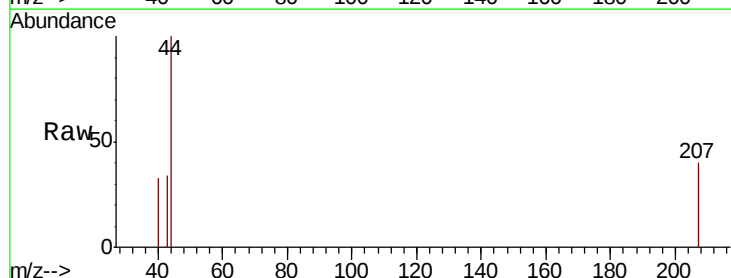
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

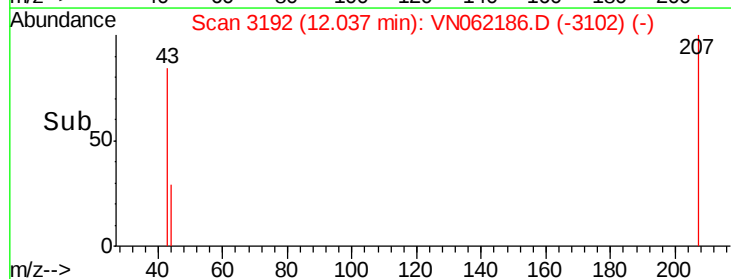
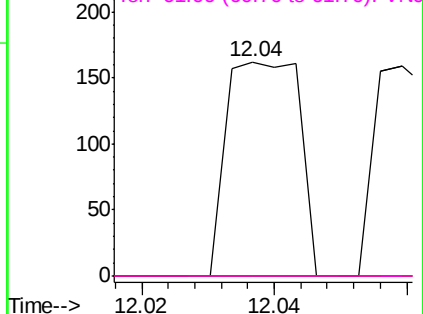


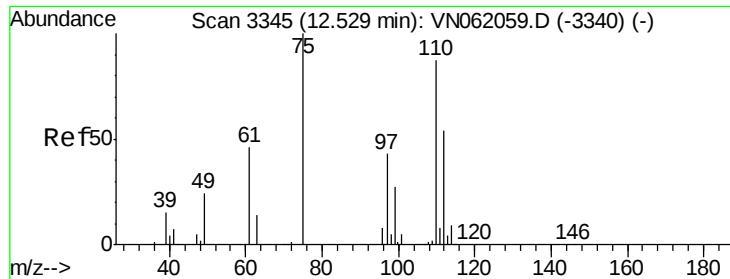
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 25.352 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

Instrument :

MSVOA\_N

ClientSampleId :

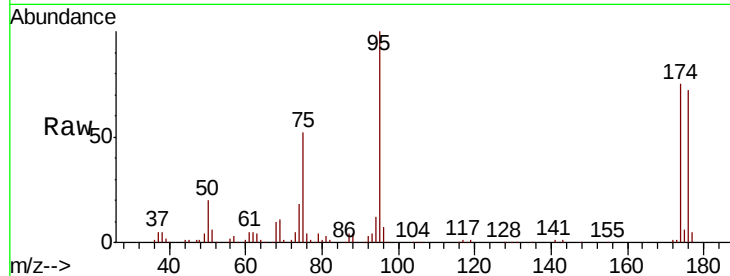
1399-1400

Tot Ion: 75 Resp: 89355

Ion Ratio Lower Upper

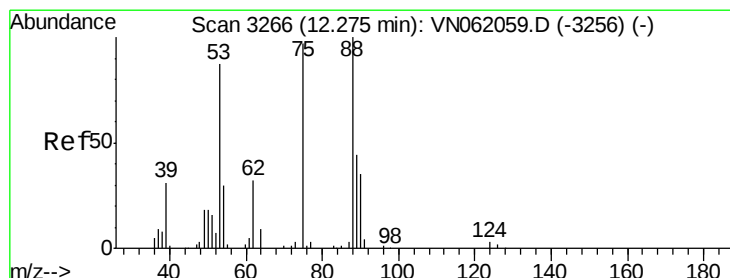
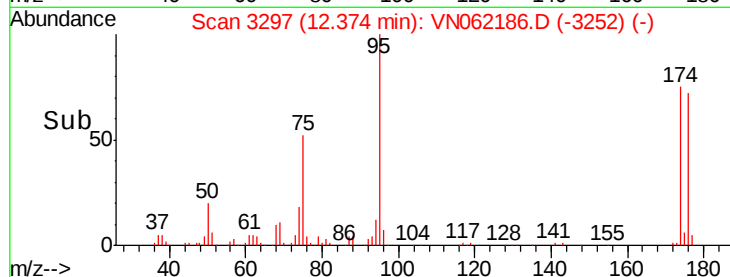
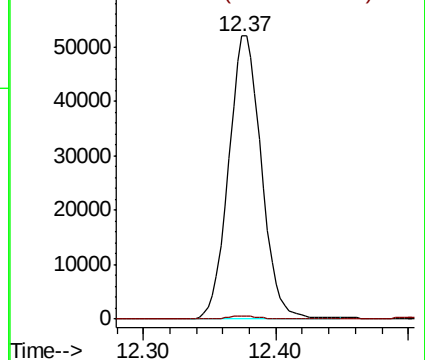
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 74.037 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN062186.D

Acq: 29 Jun 2020 14:29

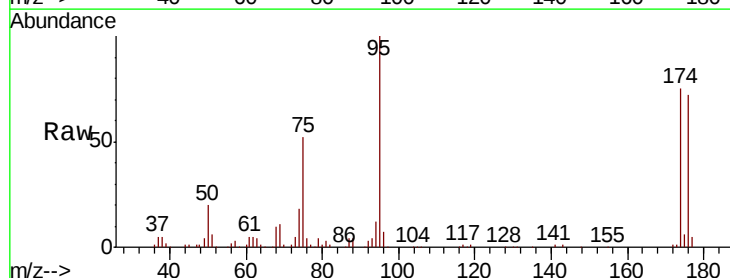
Tgt Ion: 75 Resp: 89355

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

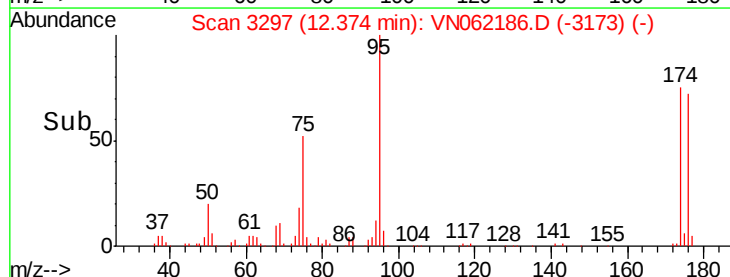
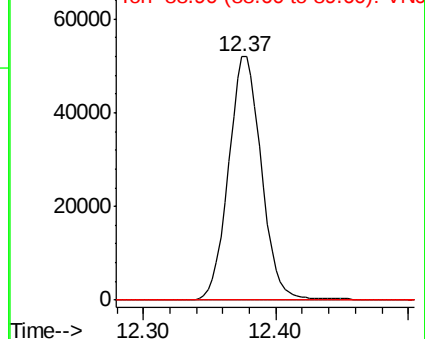
89 0.0 36.9 55.3#

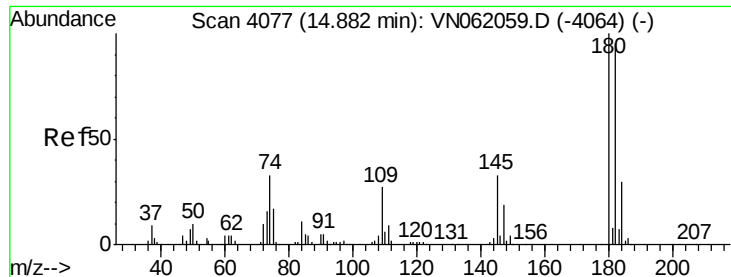


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

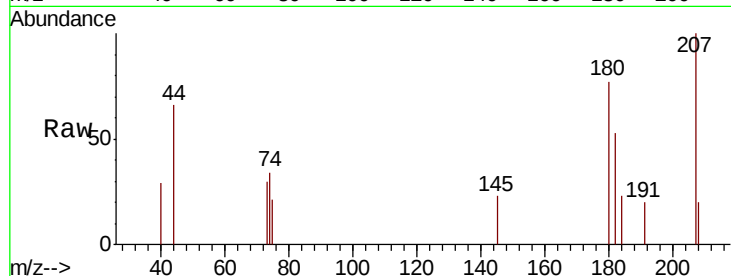




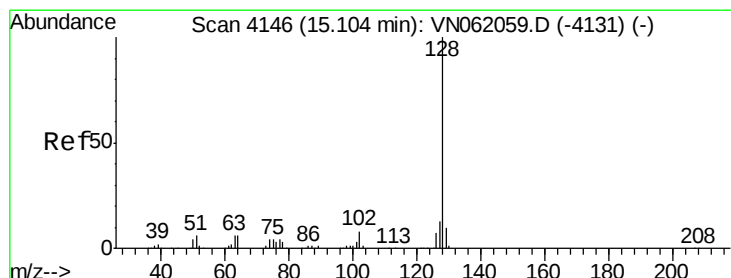
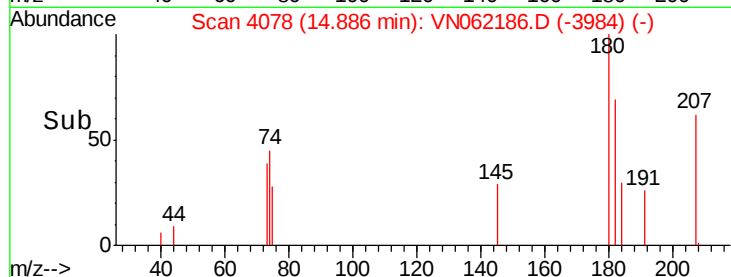
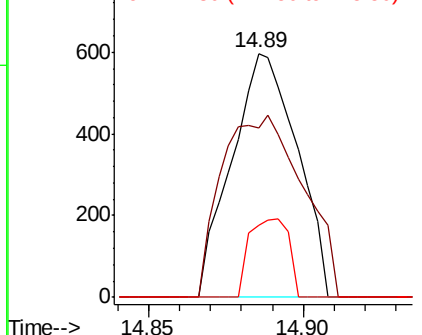
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.410 ug/l  
 RT: 14.89 min Scan# 4078  
 Delta R.T. 0.00 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

Tot Ion:180 Resp: 877  
 Ion Ratio Lower Upper  
 180 100  
 182 92.8 48.0 144.2  
 145 19.3 16.0 48.0

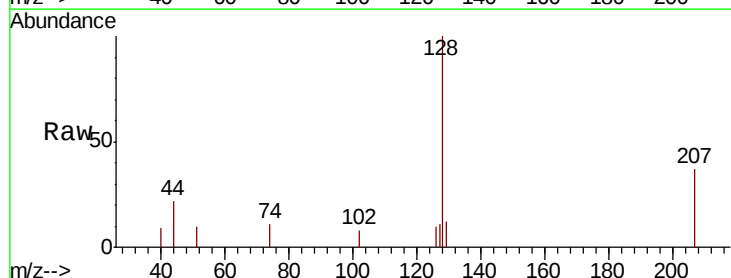


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

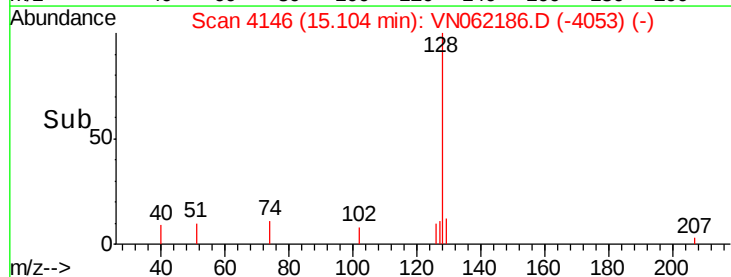
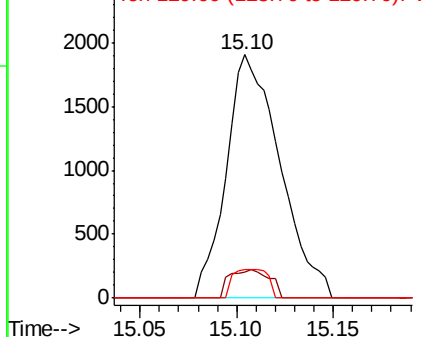


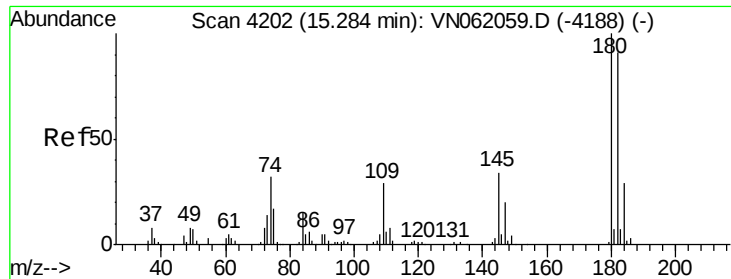
#95  
 Naphthalene  
 Concen: 4.469 ug/l  
 RT: 15.10 min Scan# 4146  
 Delta R.T. 0.00 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Tgt Ion:128 Resp: 3675  
 Ion Ratio Lower Upper  
 128 100  
 127 8.7 10.5 15.7#  
 129 7.6 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V

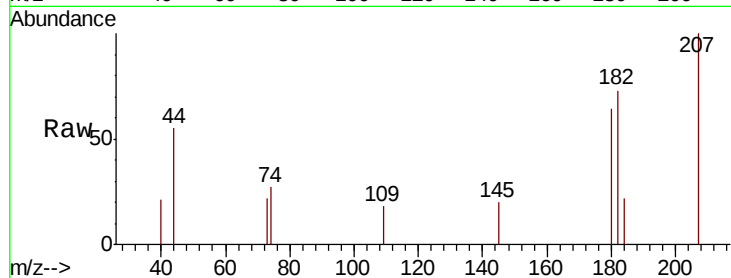




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.512 ug/l  
 RT: 15.28 min Scan# 4200  
 Delta R.T. -0.01 min  
 Lab File: VN062186.D  
 Acq: 29 Jun 2020 14:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1399-1400

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 116.7 | 46.8  | 140.4 |
| 145     | 12.4  | 16.4  | 49.2  |



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

