

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103020\  
 Data File : VN064399.D  
 Acq On : 30 Oct 2020 14:54  
 Operator : JC/MD  
 Sample : L4560-03  
 Misc : 5.59g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 B308-B309-LOC2-SO-0003

Quant Time: Oct 30 15:37:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 207676   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 370461   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 367774   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 164356   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.98  | 65   | 172731   | 51.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.52% |          |
| 35) Dibromofluoromethane    | 7.54  | 113  | 121024   | 48.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.98%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 464836   | 50.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.74% |          |
| 62) 4-Bromofluorobenzene    | 12.37 | 95   | 200144   | 56.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.34% |          |

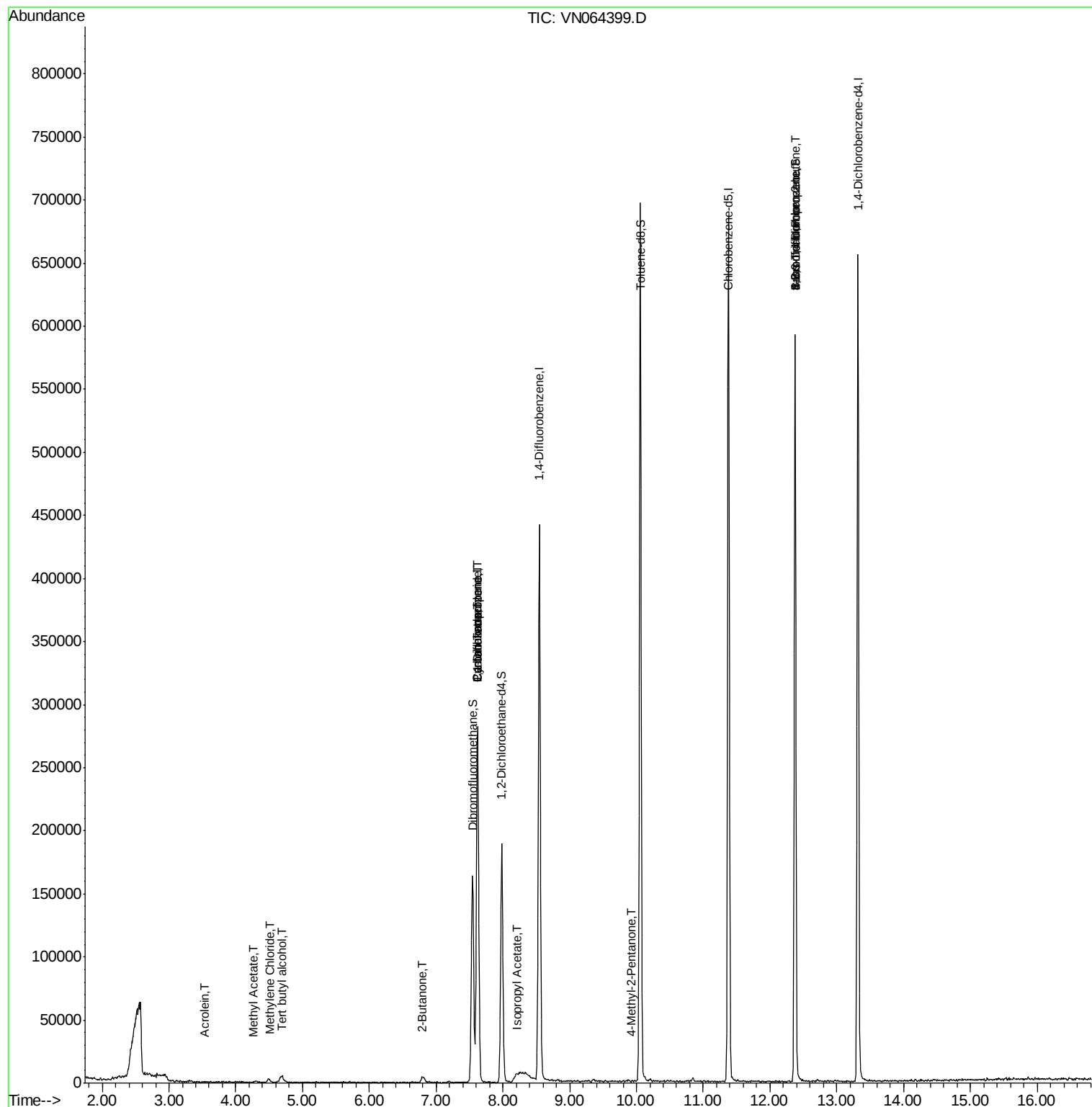
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.69  | 59   | 216      | 0.446     | ug/l # | 70     |
| 13) Acrolein                   | 3.53  | 56   | 64       | 18.245    | ug/l # | 10     |
| 16) Acetone                    | 3.75  | 43   | 30       | Below Cal | #      | 47     |
| 18) Methyl Acetate             | 4.26  | 43   | 677      | 0.270     | ug/l # | 55     |
| 20) Methylene Chloride         | 4.50  | 84   | 790      | 0.334     | ug/l # | 47     |
| 25) 2-Butanone                 | 6.79  | 43   | 4120     | 2.459     | ug/l # | 78     |
| 31) Cyclohexane                | 7.62  | 56   | 5193     | 1.341     | ug/l # | 39     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 18554    | 4.963     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 24257    | 5.596     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.20  | 43   | 6664     | 1.032     | ug/l # | 57     |
| 51) 4-Methyl-2-Pentanone       | 9.93  | 43   | 895      | 0.238     | ug/l # | 39     |
| 71) Bromoform                  | 12.37 | 173  | 742      | 0.314     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 116199   | 29.523    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 116199   | 85.042    | ug/l # | 8      |

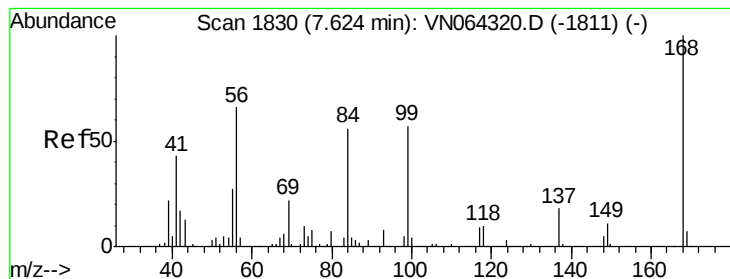
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Oct 27 12:23:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

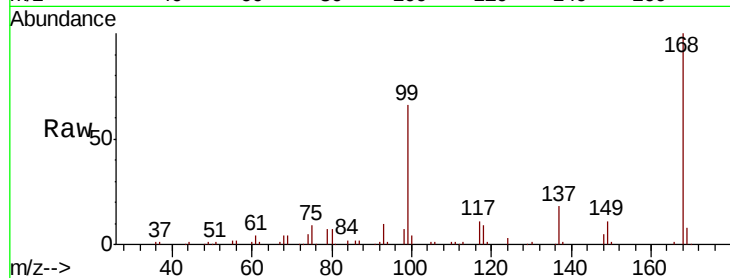
B308-B309-LOC2-SO-0003

Tot Ion:168 Resp: 207676

Ion Ratio Lower Upper

168 100

99 65.7 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

80000

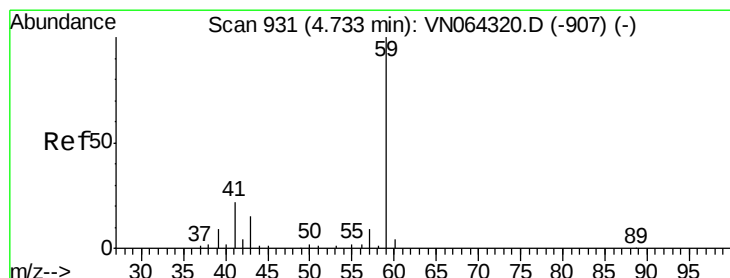
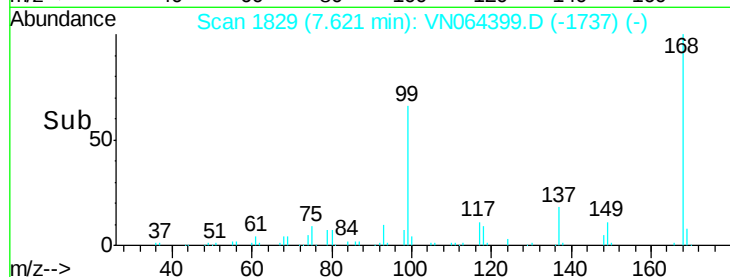
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.446 ug/l

RT: 4.69 min Scan# 917

Delta R.T. -0.04 min

Lab File: VN064399.D

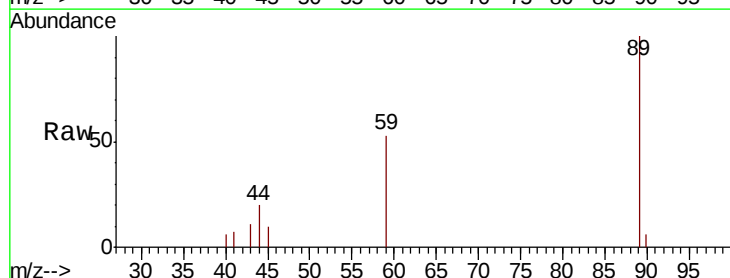
Acq: 30 Oct 2020 14:54

Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.69

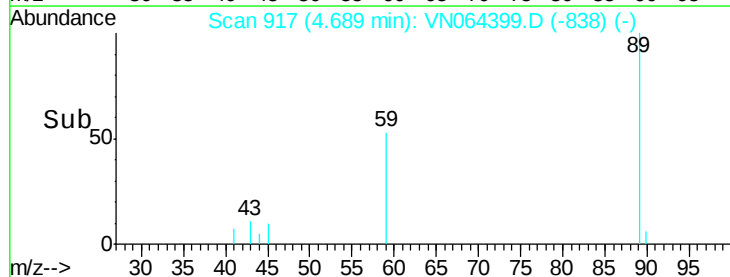
1500

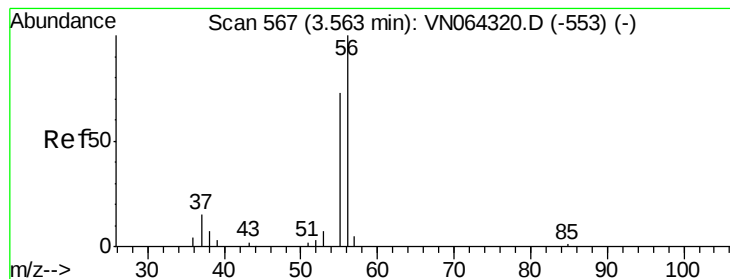
1000

500

0

Time--> 4.67 4.68 4.69 4.70





#13

Acrolein

Concen: 18.245 ug/l

RT: 3.53 min Scan# 557

Delta R.T. -0.03 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

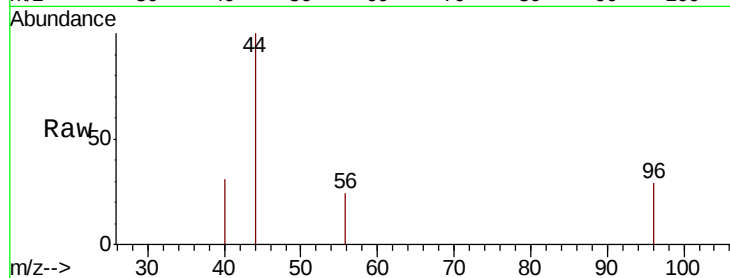
B308-B309-LOC2-SO-0003

Tot Ion: 56 Resp: 64

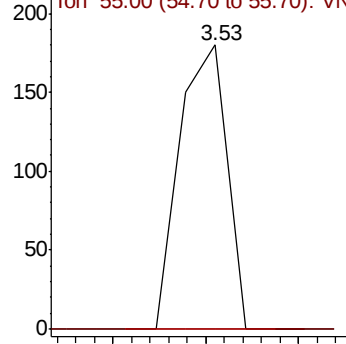
Ion Ratio Lower Upper

56 100

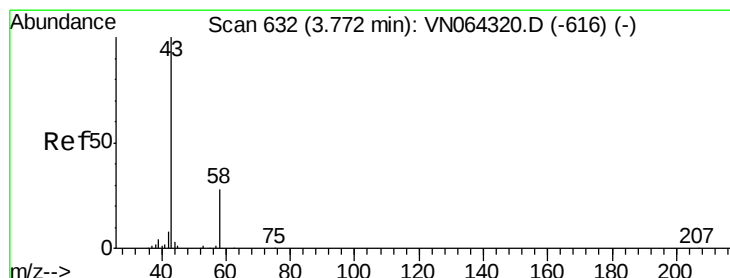
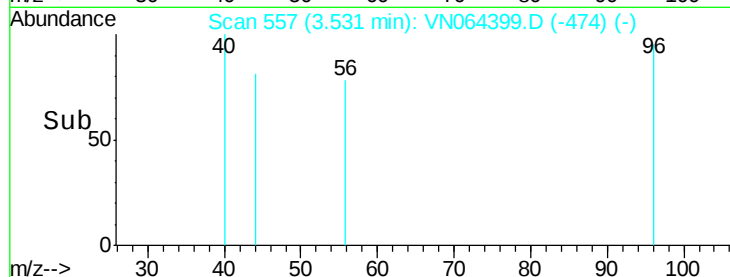
55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN064320.D (-553) (-)



Time-->



#16

Acetone

Concen: Below Cal

RT: 3.75 min Scan# 625

Delta R.T. -0.02 min

Lab File: VN064399.D

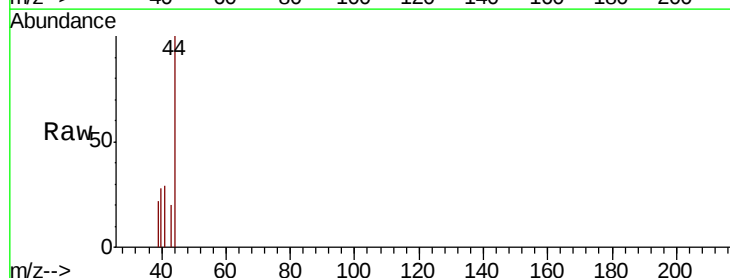
Acq: 30 Oct 2020 14:54

Tgt Ion: 43 Resp: 30

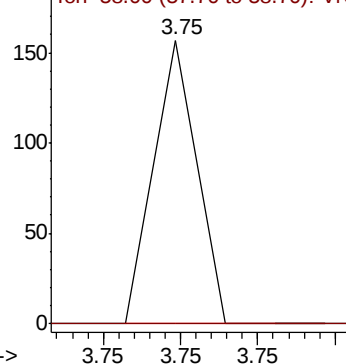
Ion Ratio Lower Upper

43 100

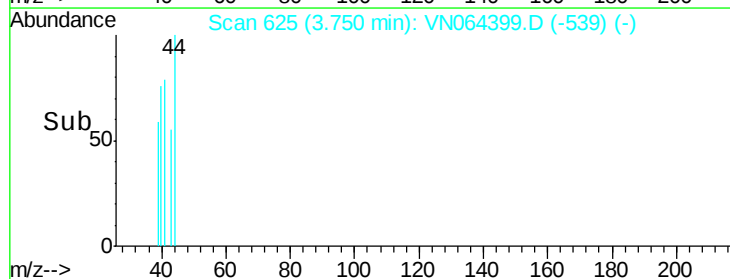
58 0.0 22.1 33.1#

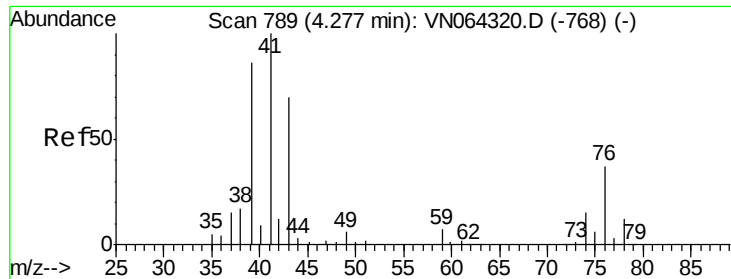


Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-616) (-)



Time-->

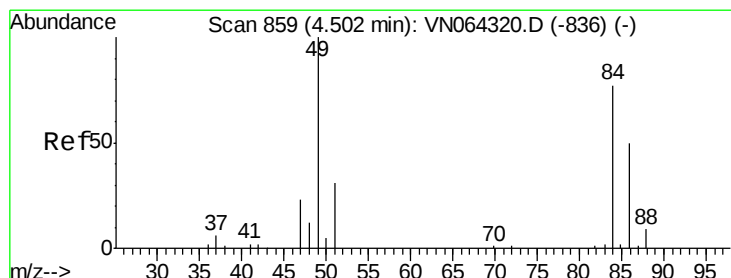
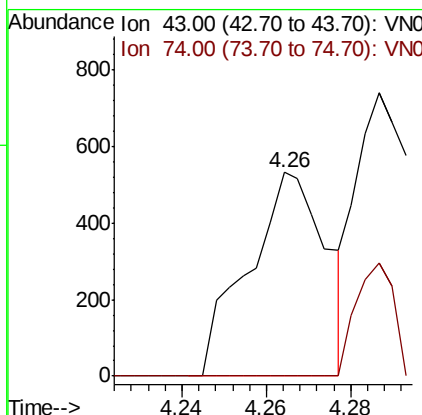
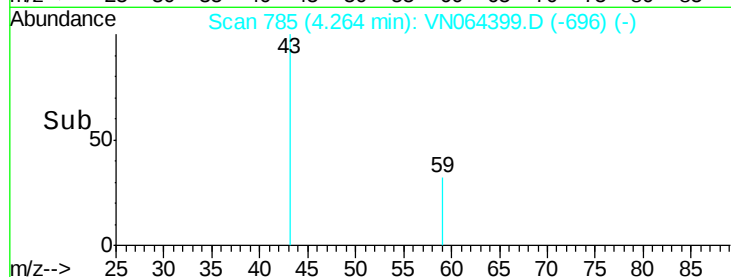
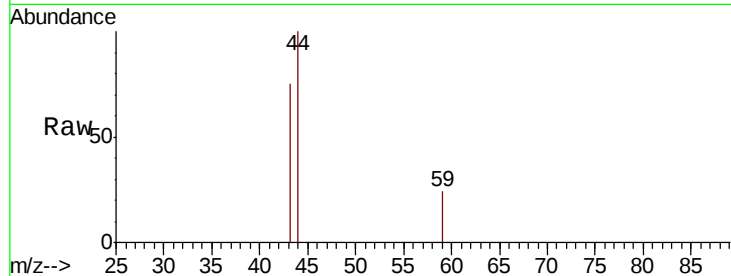




#18  
Methyl Acetate  
Concen: 0.270 ug/l  
RT: 4.26 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

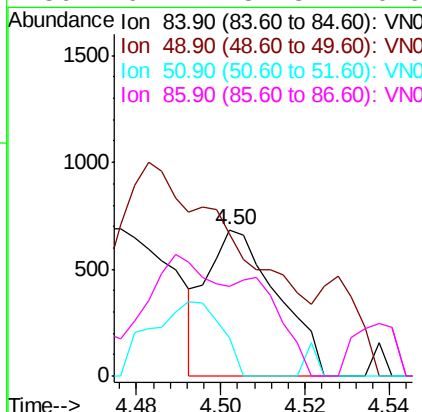
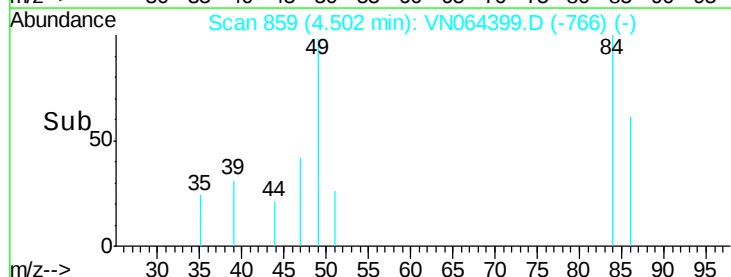
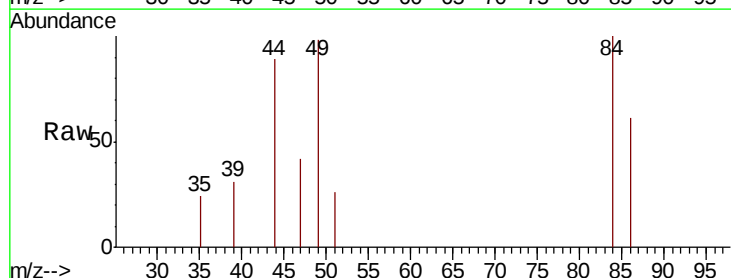
Instrument :  
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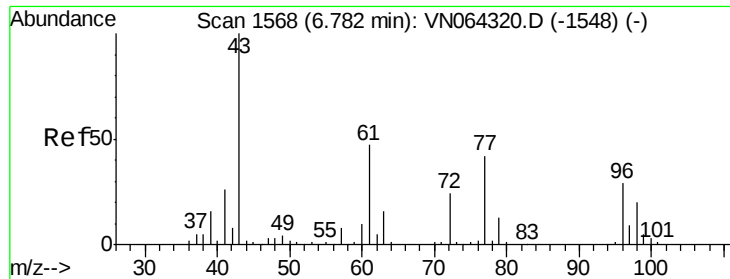
Tot Ion: 43 Resp: 677  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



#20  
Methylene Chloride  
Concen: 0.334 ug/l  
RT: 4.50 min Scan# 859  
Delta R.T. 0.00 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

Tgt Ion: 84 Resp: 790  
Ion Ratio Lower Upper  
84 100  
49 28.9 103.6 155.4#  
51 26.0 31.8 47.8#  
86 61.1 51.3 76.9

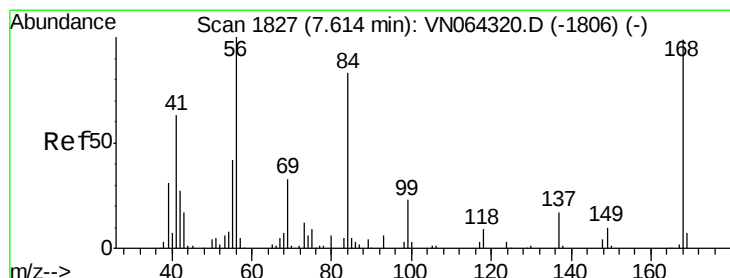
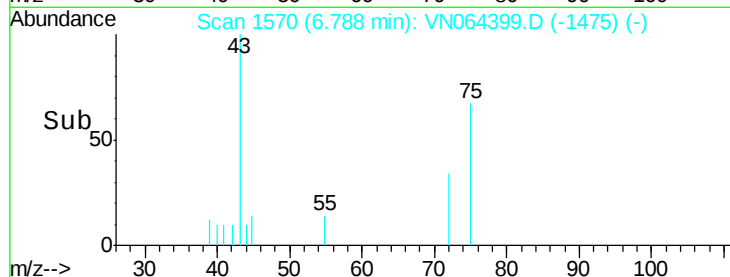
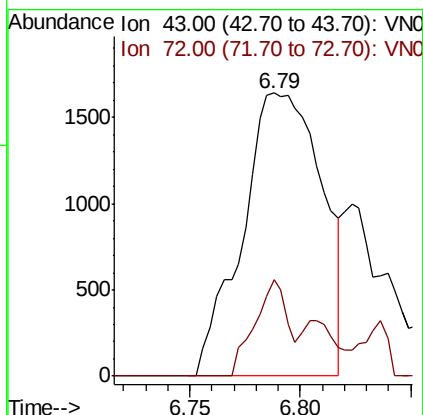
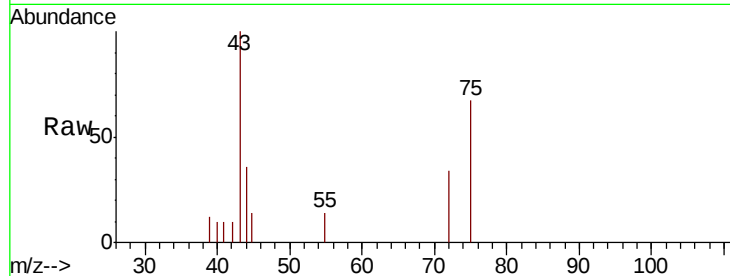




#25  
2-Butanone  
Concen: 2.459 ug/l  
RT: 6.79 min Scan# 1570  
Delta R.T. 0.01 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

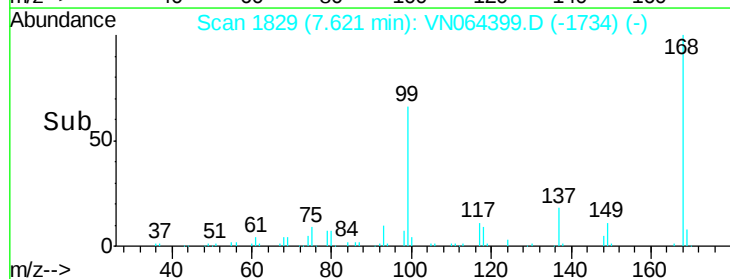
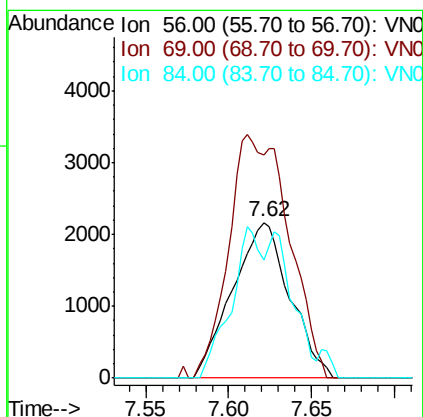
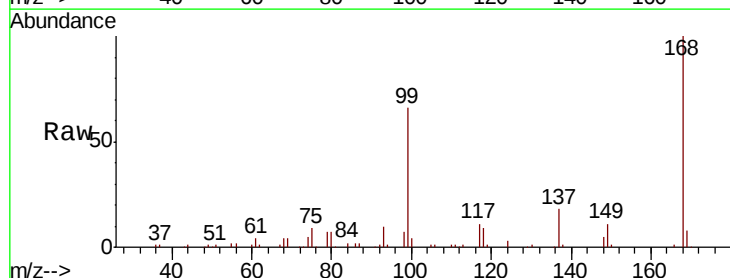
Instrument :  
MSVOA\_N  
ClientSampleId :  
B308-B309-LOC2-SO-0003

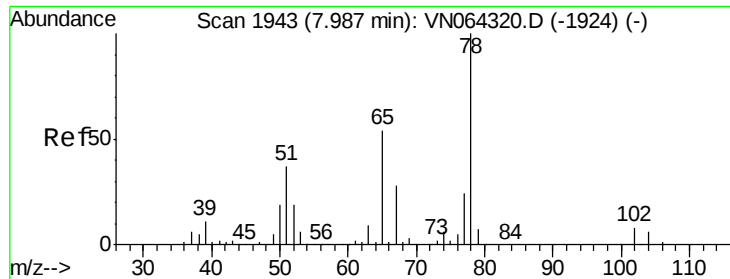
Tot Ion: 43 Resp: 4120  
Ion Ratio Lower Upper  
43 100  
72 34.2 18.8 28.2#



#31  
Cyclohexane  
Concen: 1.341 ug/l  
RT: 7.62 min Scan# 1829  
Delta R.T. 0.01 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

Tgt Ion: 56 Resp: 5193  
Ion Ratio Lower Upper  
56 100  
69 143.2 25.8 38.8#  
84 76.2 66.3 99.5

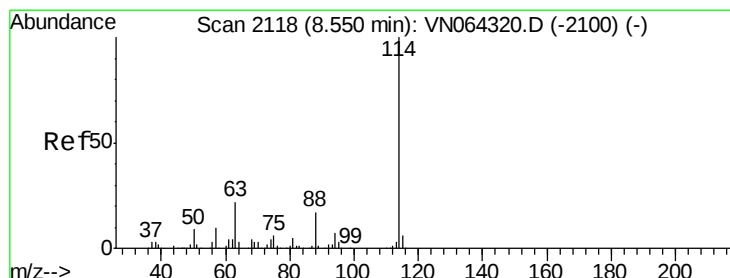
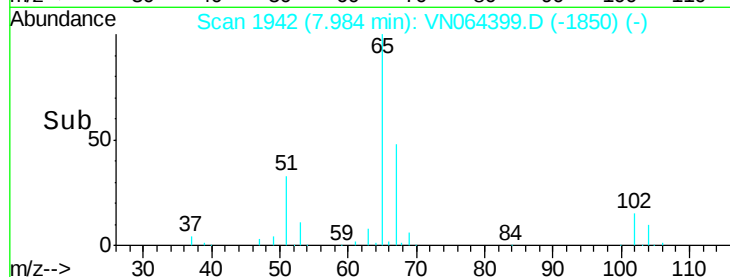
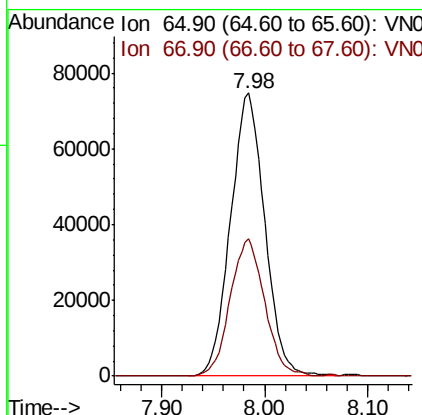
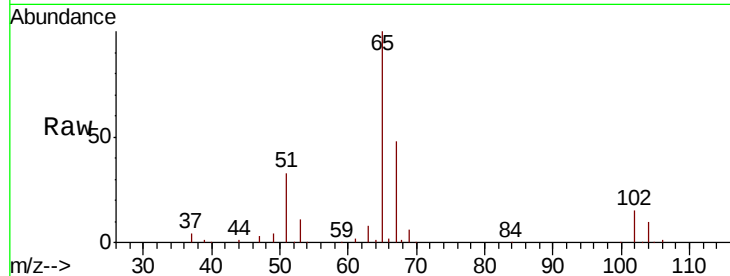




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.757 ug/l  
 RT: 7.98 min Scan# 1942  
 Delta R.T. -0.00 min  
 Lab File: VN064399.D  
 Acq: 30 Oct 2020 14:54

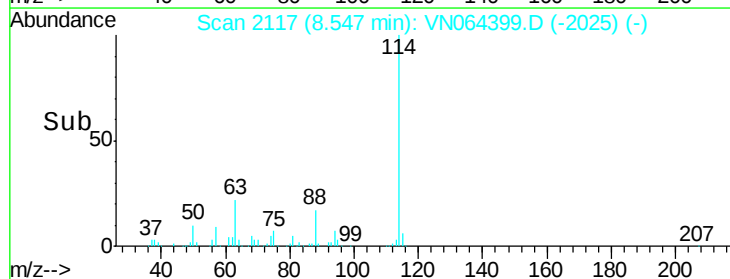
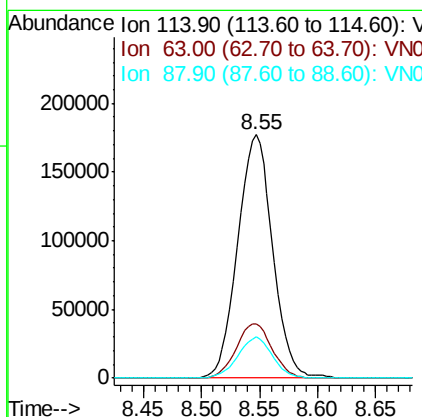
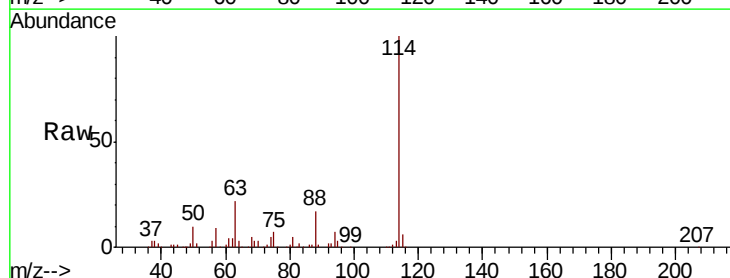
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 B308-B309-LOC2-SO-0003

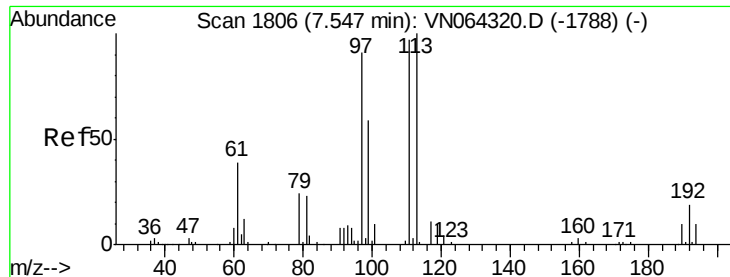
Tot Ion: 65 Resp: 172731  
 Ion Ratio Lower Upper  
 65 100  
 67 48.7 0.0 99.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2117  
 Delta R.T. -0.00 min  
 Lab File: VN064399.D  
 Acq: 30 Oct 2020 14:54

Tgt Ion: 114 Resp: 370461  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 44.6  
 88 16.9 0.0 33.4

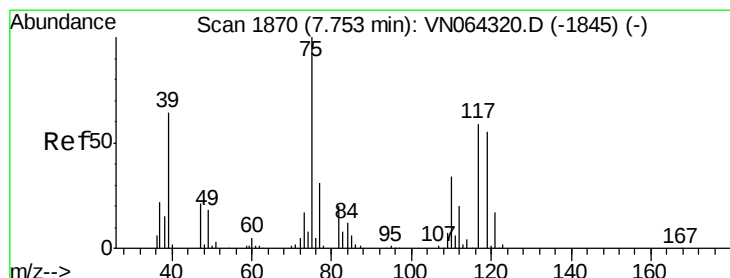
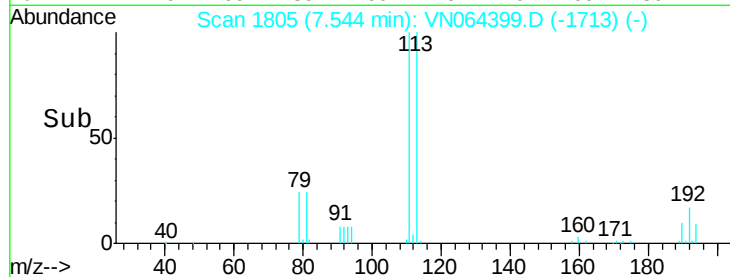
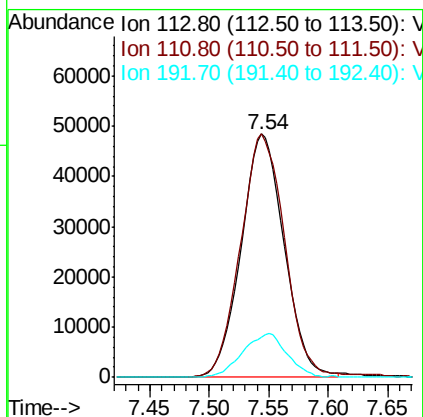
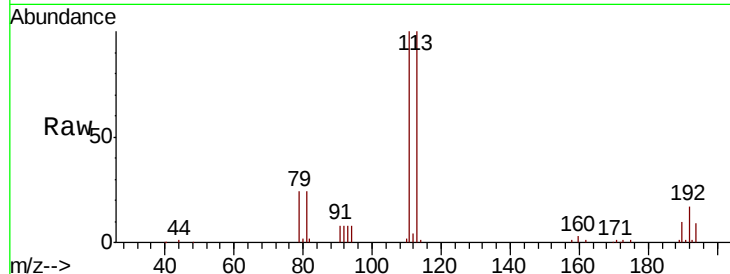




#35  
 Dibromofluoromethane  
 Concen: 48.987 ug/l  
 RT: 7.54 min Scan# 1805  
 Delta R.T. -0.00 min  
 Lab File: VN064399.D  
 Acq: 30 Oct 2020 14:54

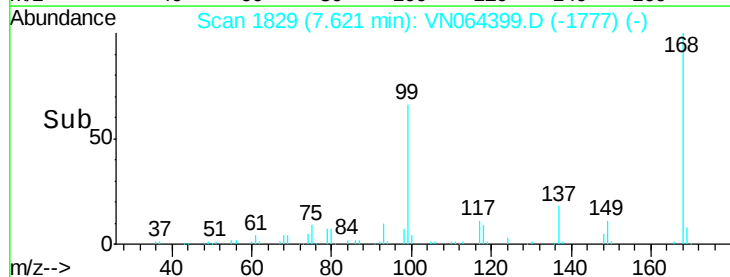
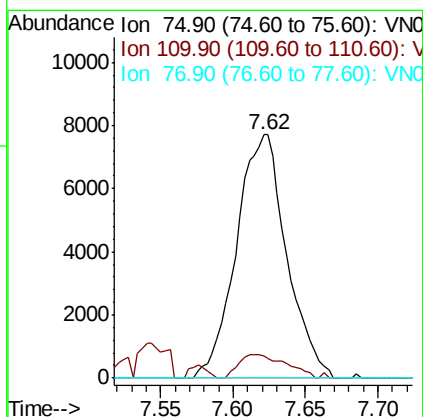
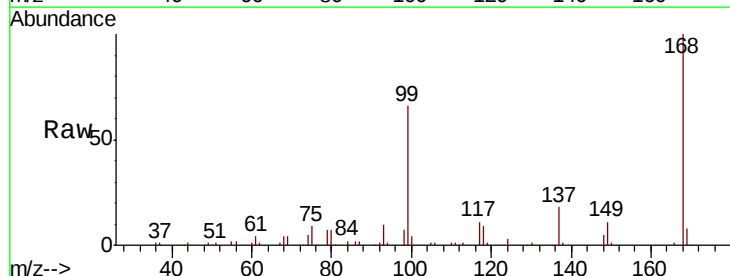
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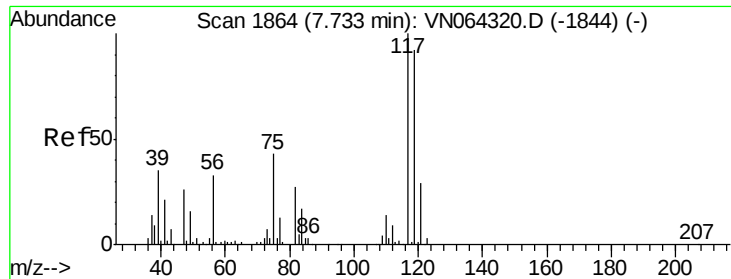
Tot Ion:113 Resp: 121024  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 81.5 122.3  
 192 18.6 15.0 22.4



#36  
 1,1-Dichloropropene  
 Concen: 4.963 ug/l  
 RT: 7.62 min Scan# 1829  
 Delta R.T. -0.13 min  
 Lab File: VN064399.D  
 Acq: 30 Oct 2020 14:54

Tgt Ion: 75 Resp: 18554  
 Ion Ratio Lower Upper  
 75 100  
 110 9.2 16.8 50.3#  
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 5.596 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. -0.12 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

B308-B309-LOC2-SO-0003

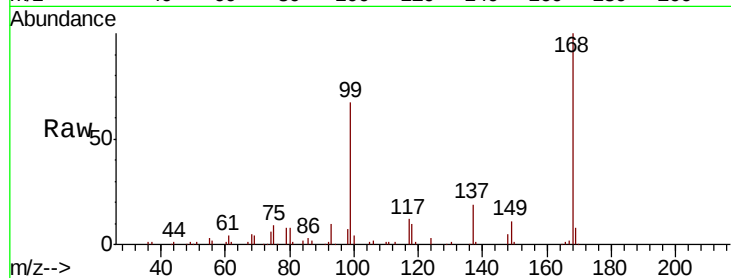
Tot Ion:117 Resp: 24257

Ion Ratio Lower Upper

117 100

119 4.8 73.7 110.5#

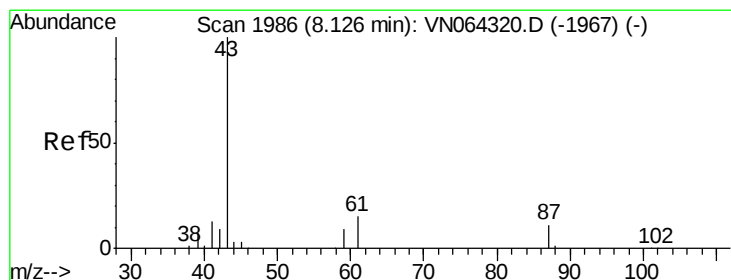
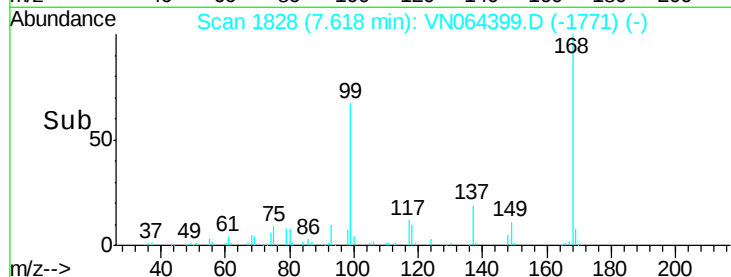
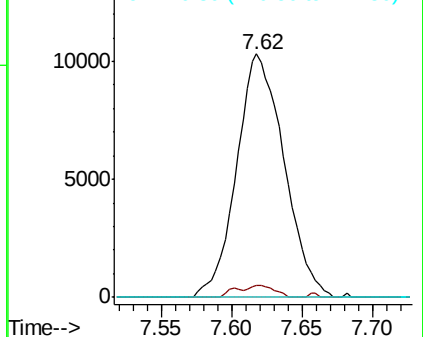
121 0.0 22.8 34.2#



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



#43

Isopropyl Acetate

Concen: 1.032 ug/l

RT: 8.20 min Scan# 2008

Delta R.T. 0.07 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

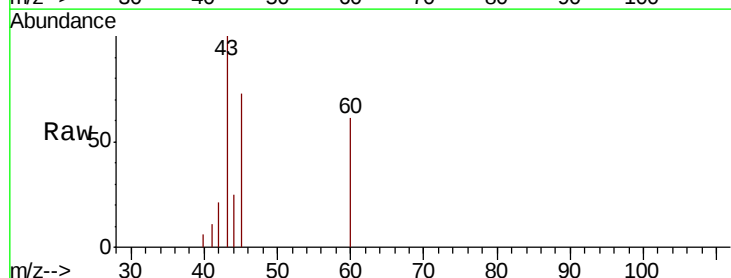
Tgt Ion: 43 Resp: 6664

Ion Ratio Lower Upper

43 100

61 0.0 19.1 28.7#

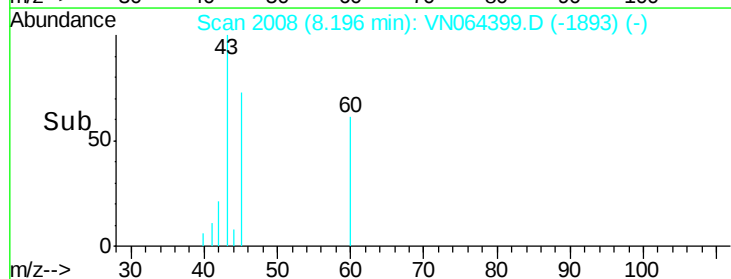
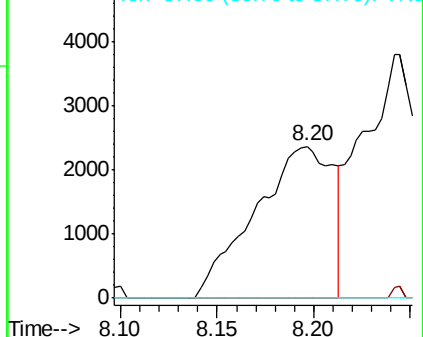
87 0.0 9.3 13.9#

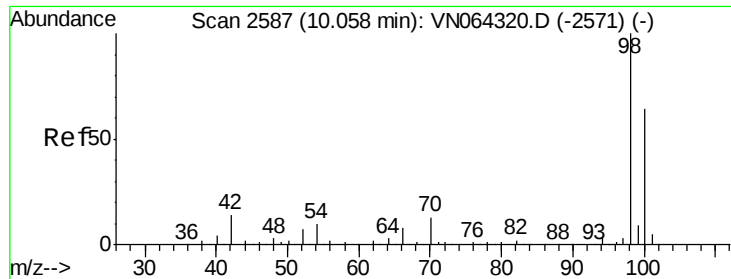


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 50.868 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

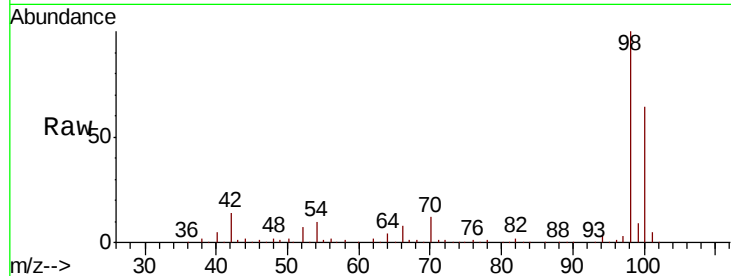
B308-B309-LOC2-SO-0003

Tot Ion: 98 Resp: 464836

Ion Ratio Lower Upper

98 100

100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN064320.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064320.D (-2571) (-)

10.06

250000

200000

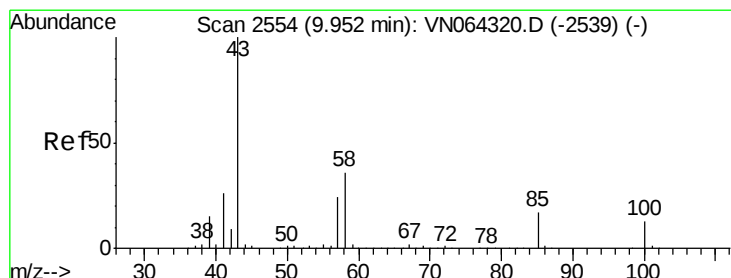
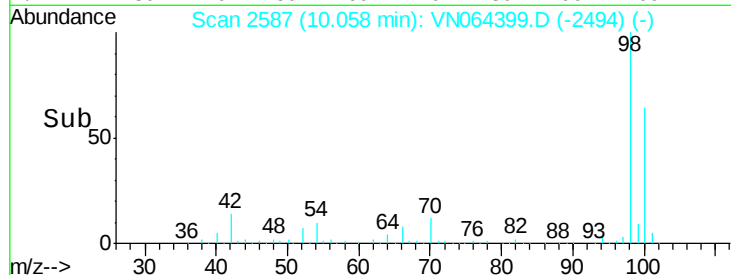
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.238 ug/l

RT: 9.93 min Scan# 2547

Delta R.T. -0.02 min

Lab File: VN064399.D

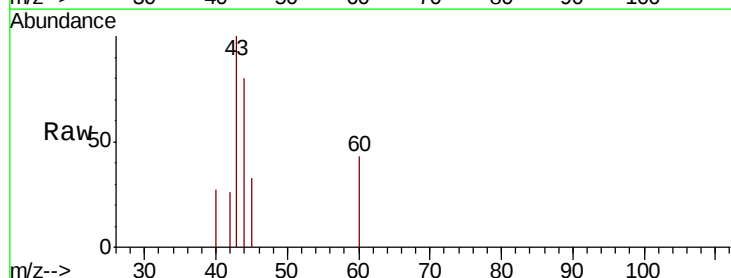
Acq: 30 Oct 2020 14:54

Tgt Ion: 43 Resp: 895

Ion Ratio Lower Upper

43 100

58 0.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

9.93

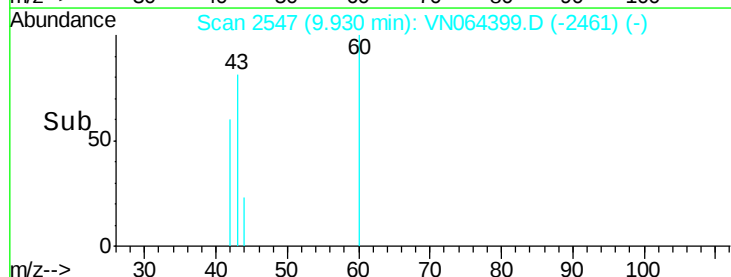
600

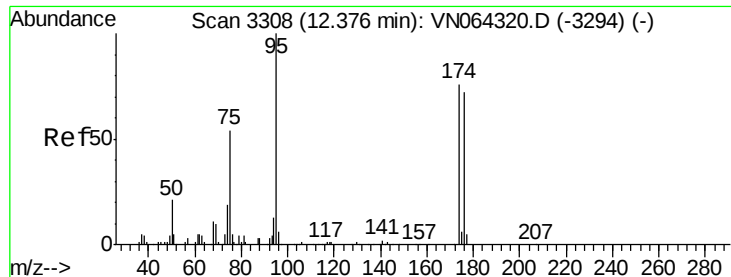
400

200

0

Time-->

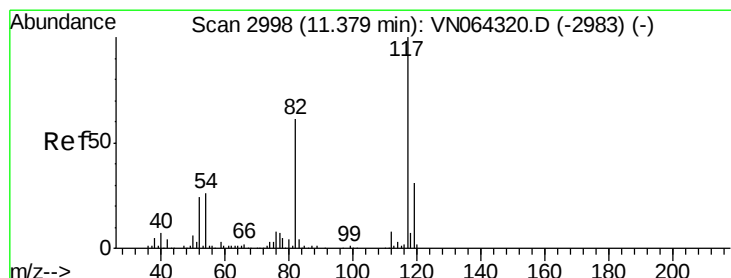
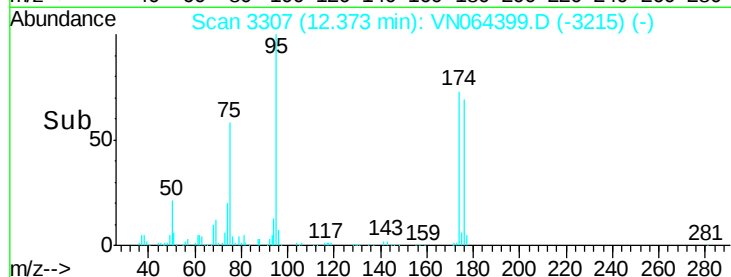
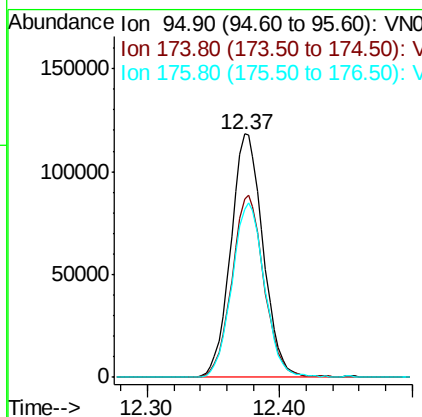
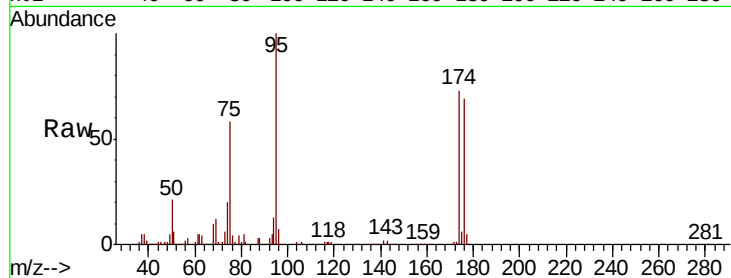




#62  
4-Bromofluorobenzene  
Concen: 56.175 ug/l  
RT: 12.37 min Scan# 3307  
Delta R.T. -0.00 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

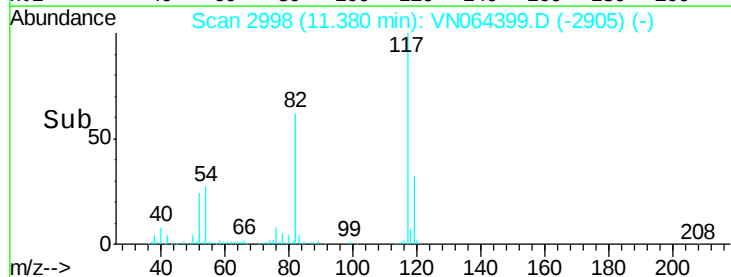
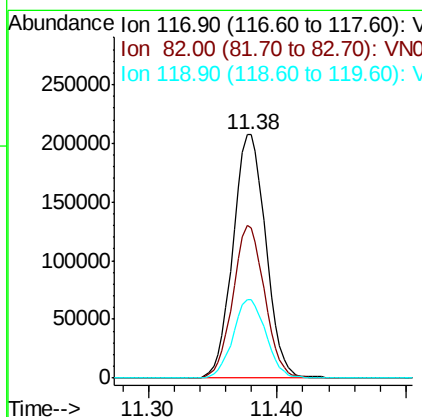
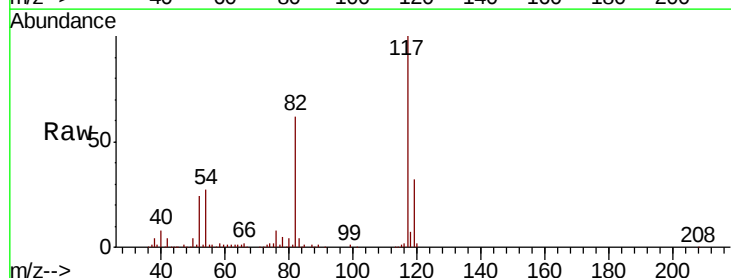
Instrument :  
MSVOA\_N  
ClientSampleId :  
B308-B309-LOC2-SO-0003

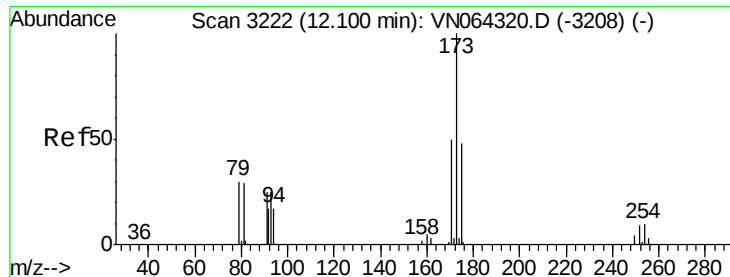
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.1  | 0.0   | 147.4 |
| 176     | 71.9  | 0.0   | 143.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064399.D  
Acq: 30 Oct 2020 14:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 61.8  | 48.8  | 73.2  |
| 119     | 32.1  | 25.1  | 37.7  |





#71

Bromoform

Concen: 0.314 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

B308-B309-LOC2-SO-0003

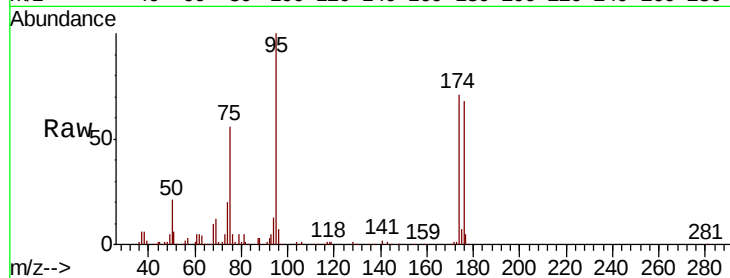
Tot Ion:173 Resp: 742

Ion Ratio Lower Upper

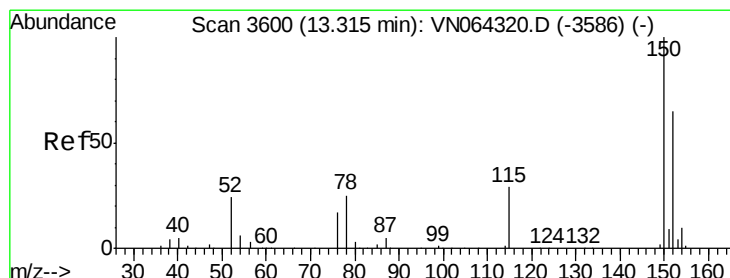
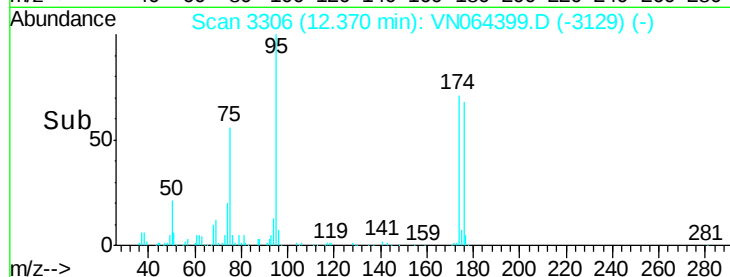
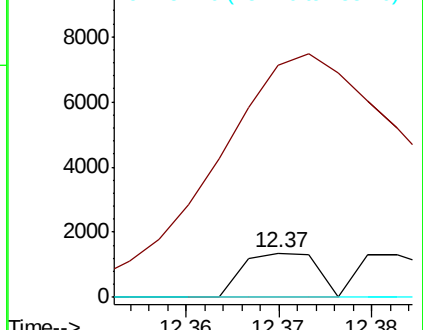
173 100

175 1400.3 25.4 76.0#

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# 3600

Delta R.T. 0.00 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

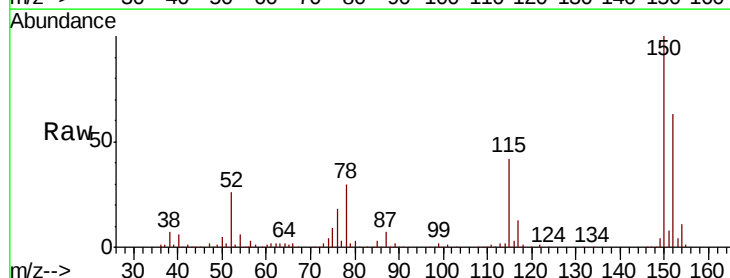
Tgt Ion:152 Resp: 164356

Ion Ratio Lower Upper

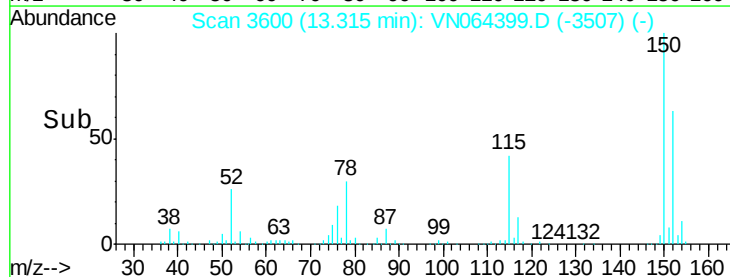
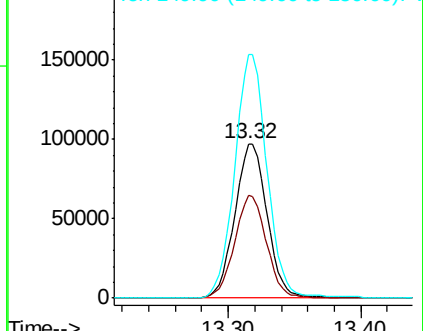
152 100

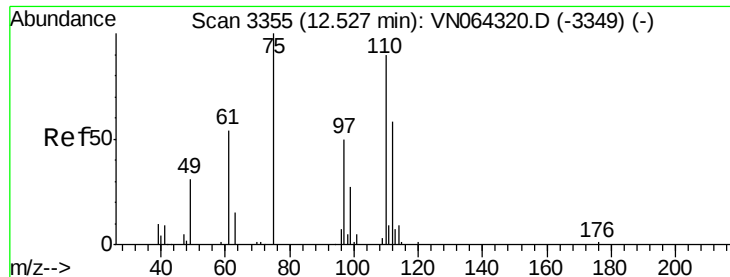
115 65.5 31.5 94.5

150 156.2 0.0 346.2



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: 29.523 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

Instrument :

MSVOA\_N

ClientSampleId :

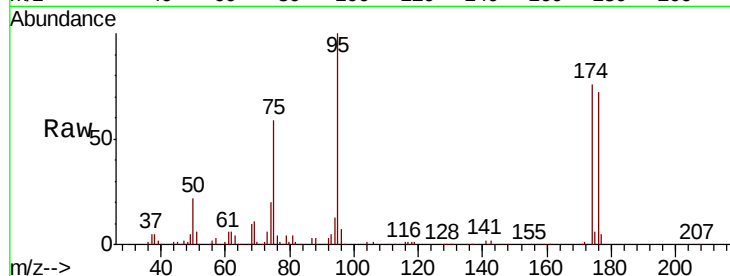
B308-B309-LOC2-SO-0003

Tot Ion: 75 Resp: 116199

Ion Ratio Lower Upper

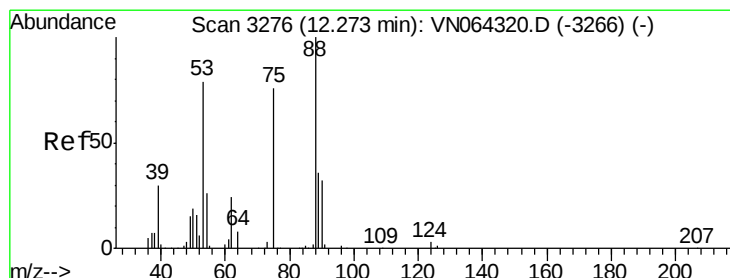
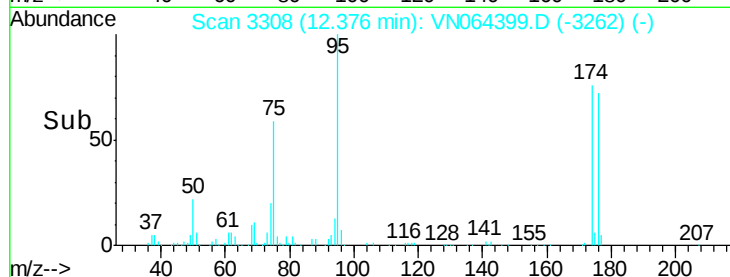
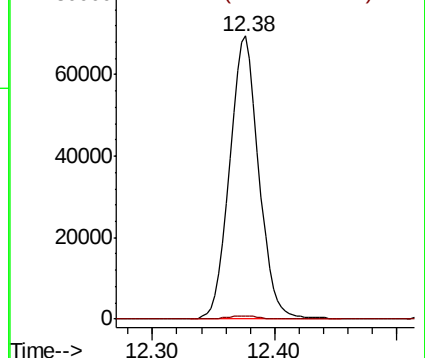
75 100

77 1.3 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: 85.042 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064399.D

Acq: 30 Oct 2020 14:54

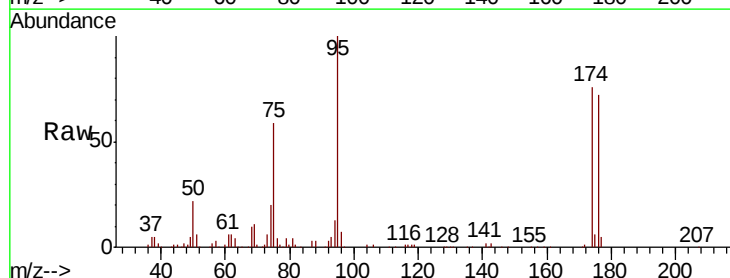
Tgt Ion: 75 Resp: 116199

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.0 39.9 59.9#



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

