

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010620\  
 Data File : VD064777.D  
 Acq On : 06 Jan 2020 17:11  
 Operator : VA/SY  
 Sample : L1039-01  
 Misc : 9.1G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 07 00:37:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

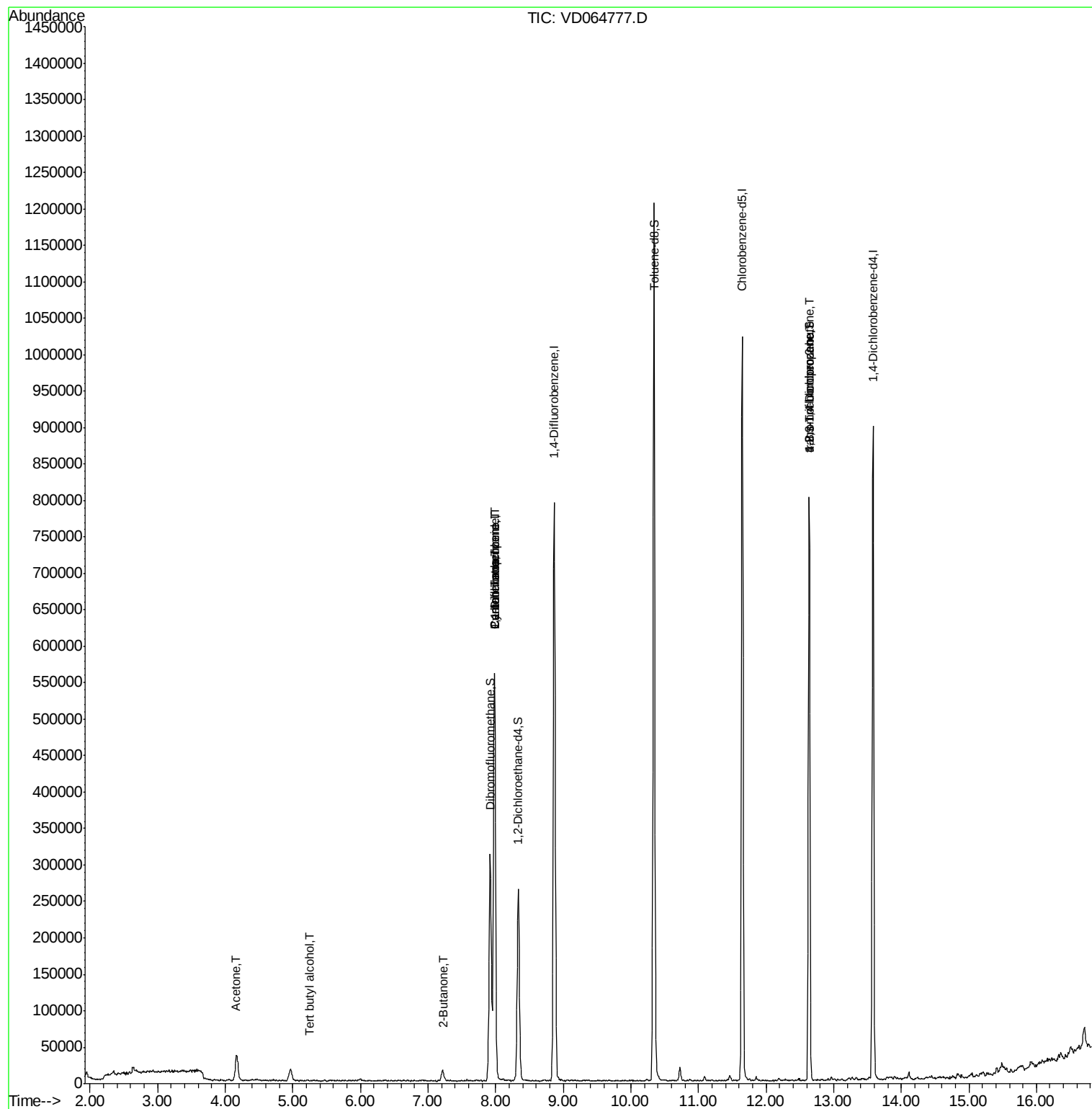
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 428164   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 666137   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 575455   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 239899   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 219504   | 58.14     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 116.28% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 208556   | 51.03     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.06% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 787649   | 50.32     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.64% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 231449   | 46.76     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 93.52%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.24  | 59   | 355      | 1.641     | ug/l #  | 70       |
| 16) Acetone                    | 4.16  | 43   | 63618    | 76.705    | ug/l    | 98       |
| 20) Methylene Chloride         | 4.96  | 84   | 12006    | Below Cal |         | 94       |
| 25) 2-Butanone                 | 7.23  | 43   | 2131     | 2.053     | ug/l #  | 88       |
| 31) Cyclohexane                | 7.98  | 56   | 9228     | 1.311     | ug/l #  | 26       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 32711    | 5.102     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 40549    | 5.931     | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 123105   | 64.984    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 123105   | 135.912   | ug/l #  | 10       |

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

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MSVOA\_D  
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Quant Time: Jan 07 00:37:25 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

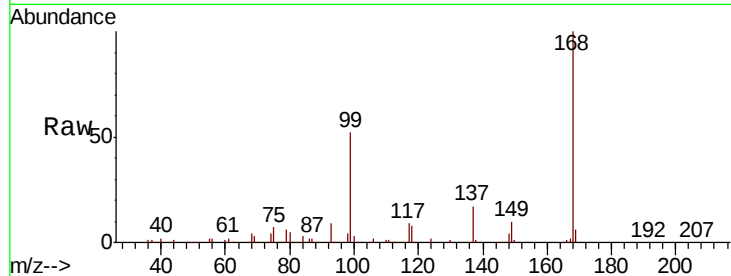
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 428164

Ion Ratio Lower Upper

168 100

99 52.4 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

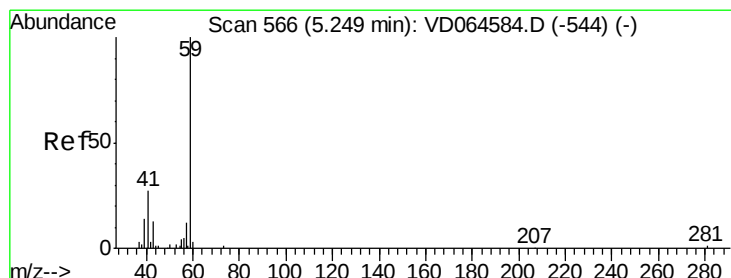
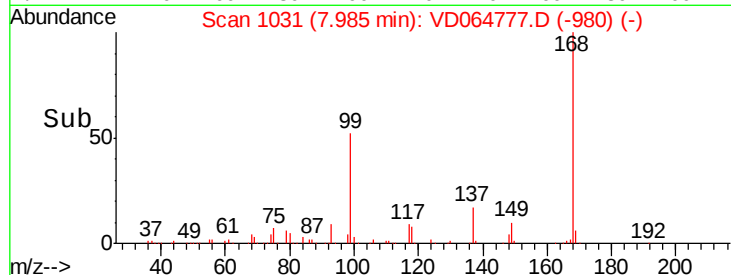
100000

50000

0

Time-->

7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.641 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064777.D

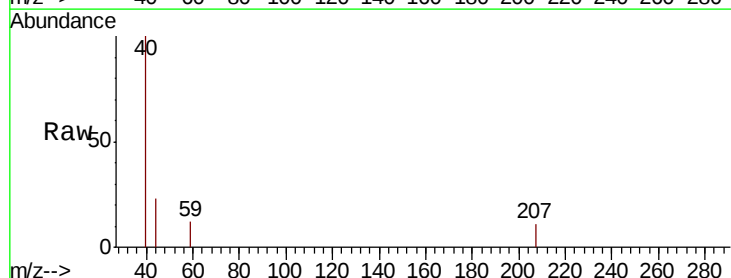
Acq: 06 Jan 2020 17:11

Tgt Ion: 59 Resp: 355

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.24

400

300

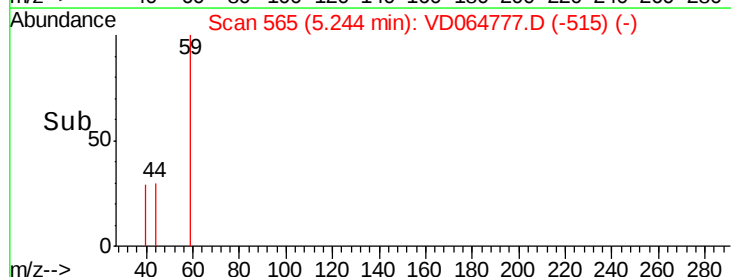
200

100

0

Time-->

5.22 5.24 5.26

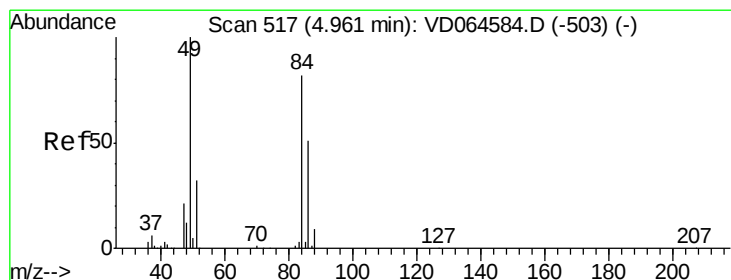
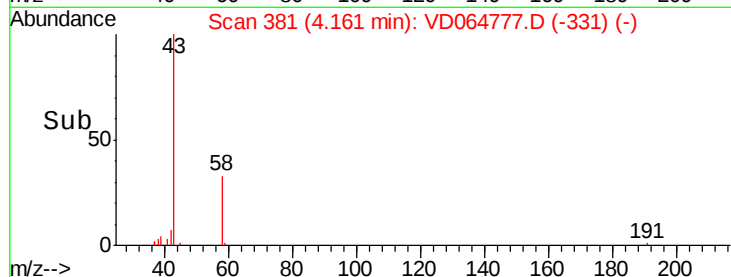
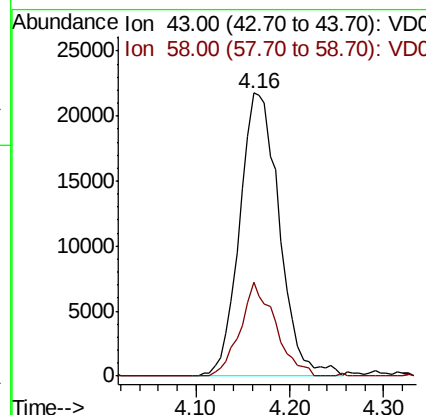
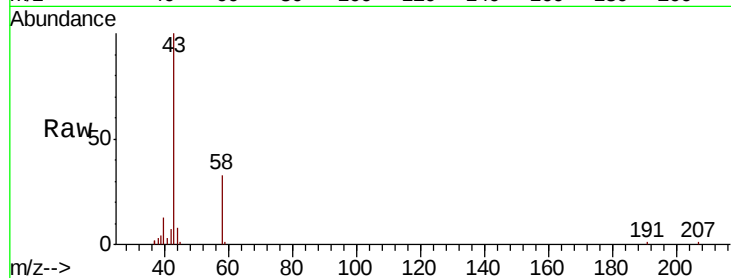




#16  
Acetone  
Concen: 76.705 ug/l  
RT: 4.16 min Scan# 381  
Delta R.T. -0.01 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

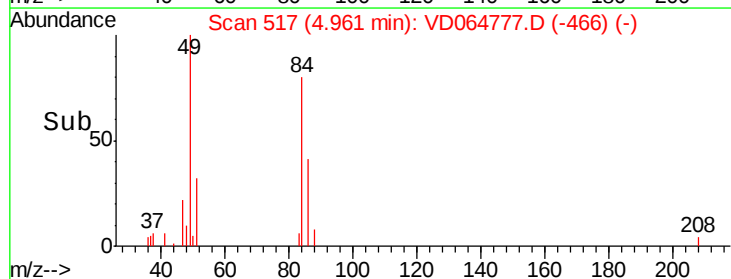
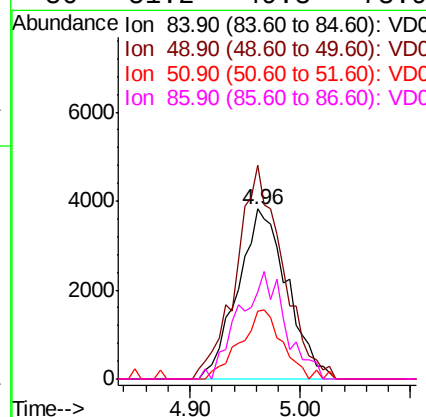
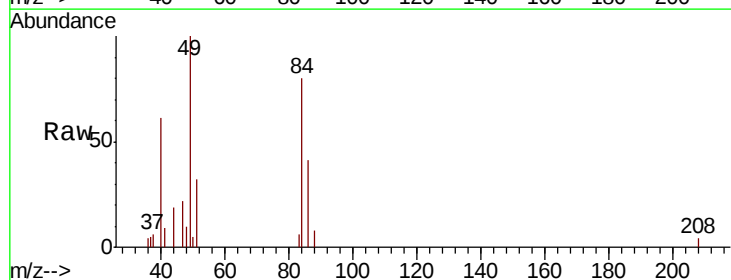
Instrument :  
MSVOA\_D  
ClientSampleId :

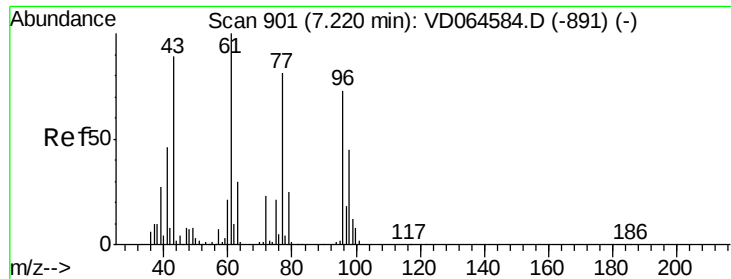
Tot Ion: 43 Resp: 63618  
Ion Ratio Lower Upper  
43 100  
58 33.1 25.8 38.6



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

Tgt Ion: 84 Resp: 12006  
Ion Ratio Lower Upper  
84 100  
49 125.7 97.2 145.8  
51 40.2 31.4 47.0  
86 51.2 49.3 73.9

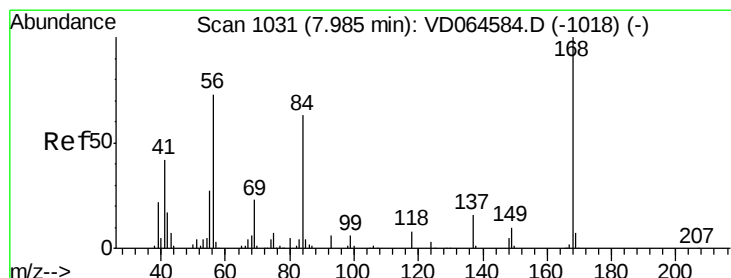
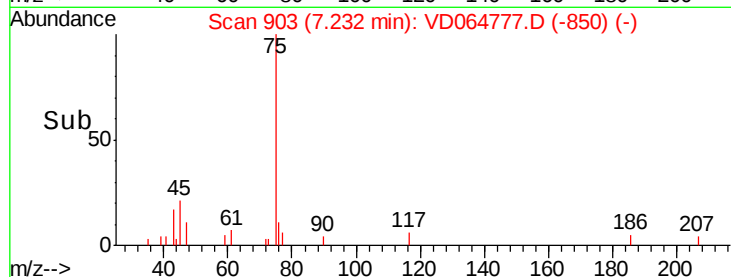
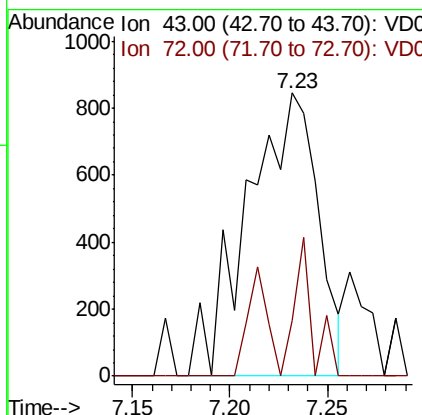
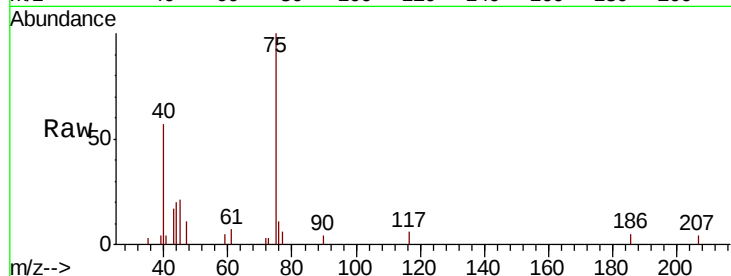




#25  
2-Butanone  
Concen: 2.053 ug/l  
RT: 7.23 min Scan# 903  
Delta R.T. 0.01 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

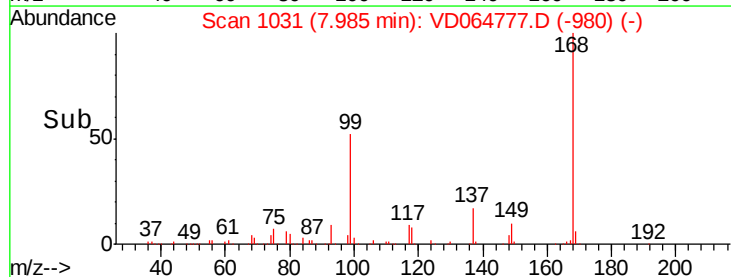
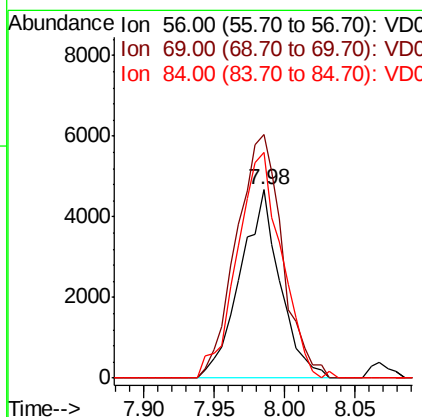
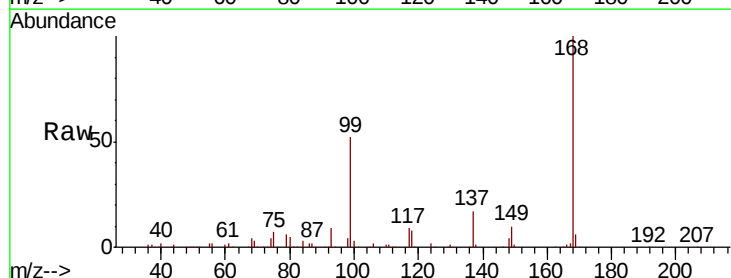
Instrument :  
MSVOA\_D  
ClientSampled :

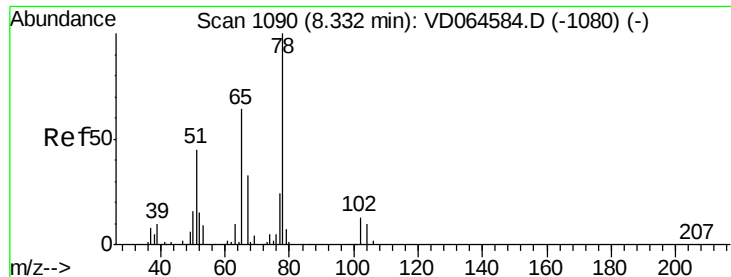
Tot Ion: 43 Resp: 2131  
Ion Ratio Lower Upper  
43 100  
72 19.8 20.7 31.1#



#31  
Cyclohexane  
Concen: 1.311 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

Tgt Ion: 56 Resp: 9228  
Ion Ratio Lower Upper  
56 100  
69 129.3 24.7 37.1#  
84 120.0 69.4 104.2#





#33

1,2-Dichloroethane-d4

Concen: 58.139 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

Instrument :

MSVOA\_D

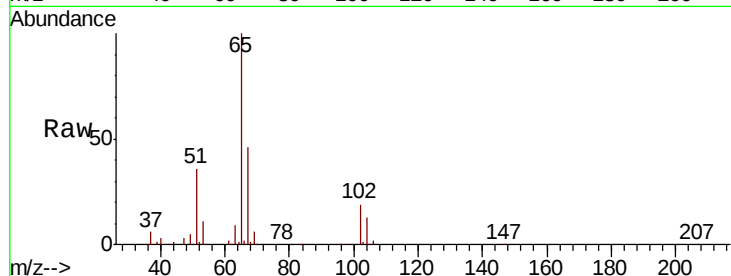
ClientSampleId :

Tot Ion: 65 Resp: 219504

Ion Ratio Lower Upper

65 100

67 50.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

60000

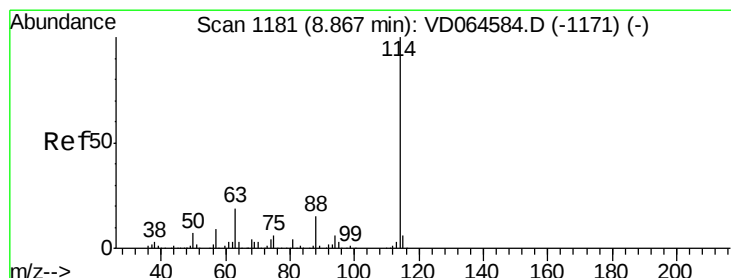
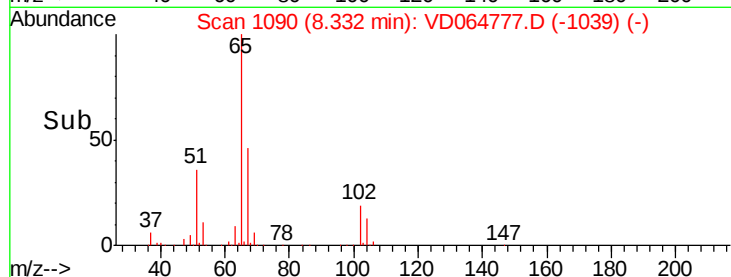
40000

20000

0

8.20 8.30 8.40 8.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

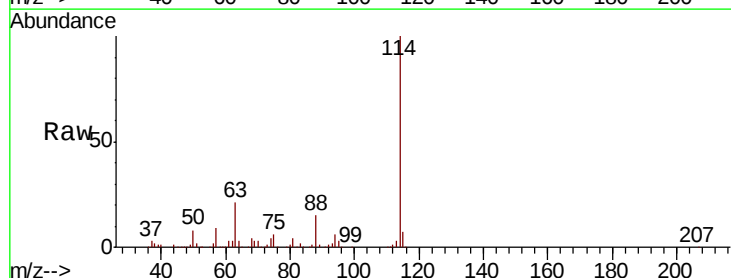
Tgt Ion: 114 Resp: 666137

Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.0

88 15.0 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

400000

300000

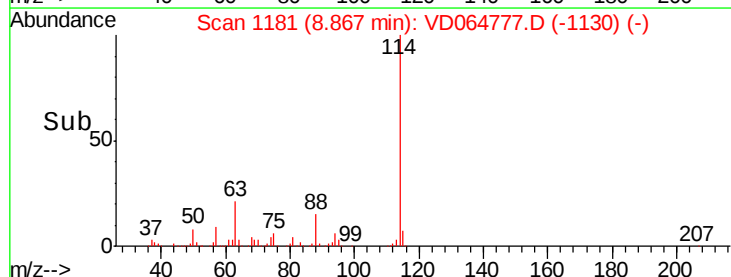
200000

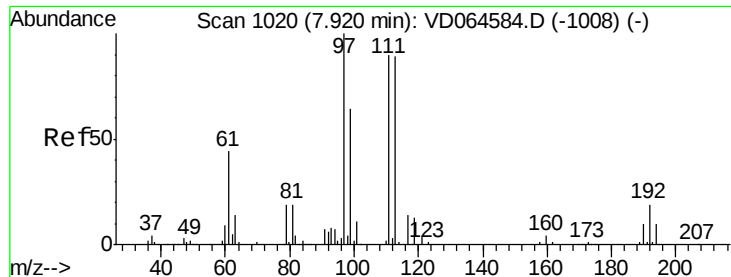
100000

0

8.80 8.90

Time-->

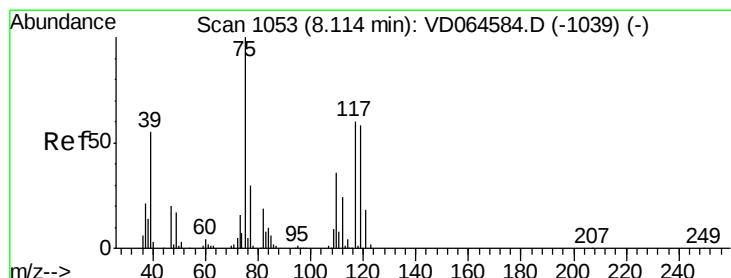
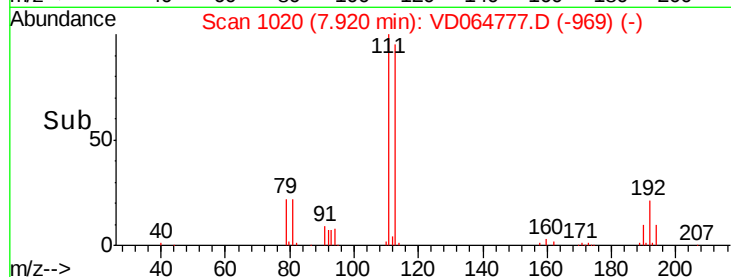
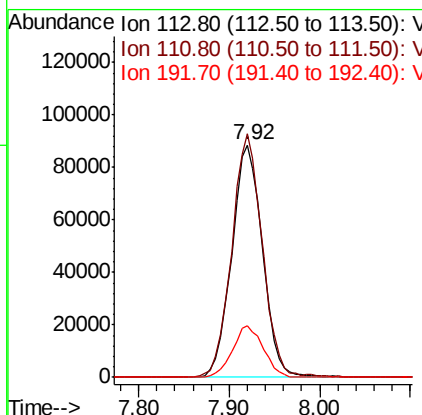
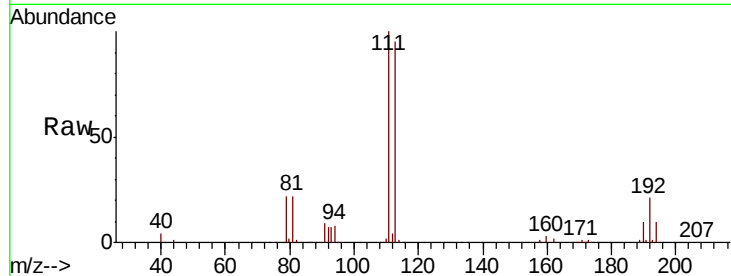




#35  
 Dibromofluoromethane  
 Concen: 51.031 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064777.D  
 Acq: 06 Jan 2020 17:11

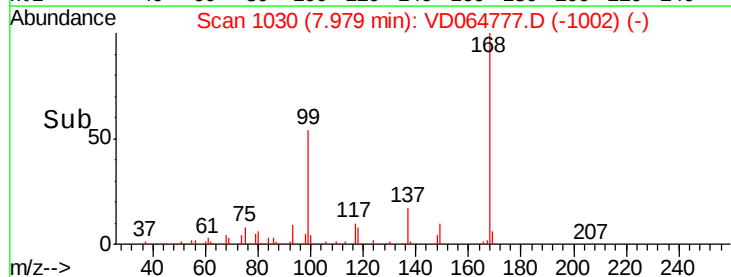
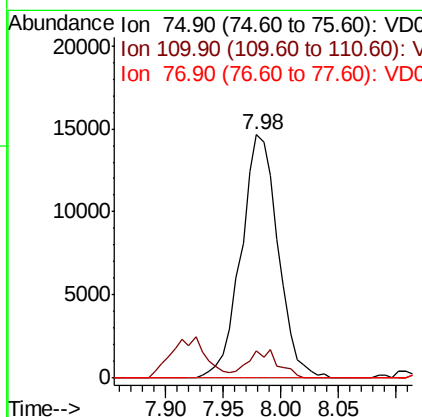
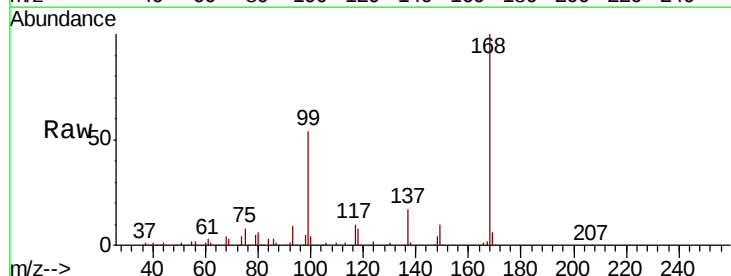
Instrument :  
 MSVOA\_D  
 ClientSampleId :

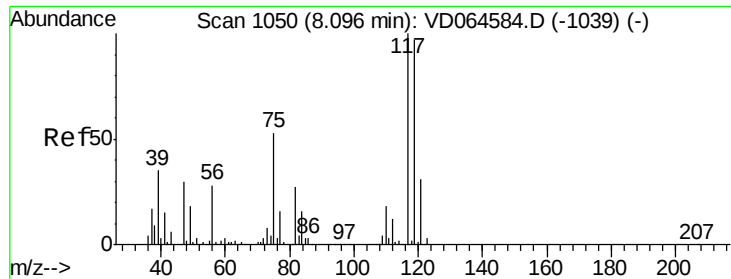
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.3 | 80.6  | 121.0 |
| 192     | 22.2  | 17.9  | 26.9  |



#36  
 1,1-Dichloropropene  
 Concen: 5.102 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD064777.D  
 Acq: 06 Jan 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.6   | 18.1  | 54.1# |
| 77      | 0.0   | 24.2  | 36.4# |





#38

Carbon Tetrachloride

Concen: 5.931 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

Instrument :

MSVOA\_D

ClientSampled :

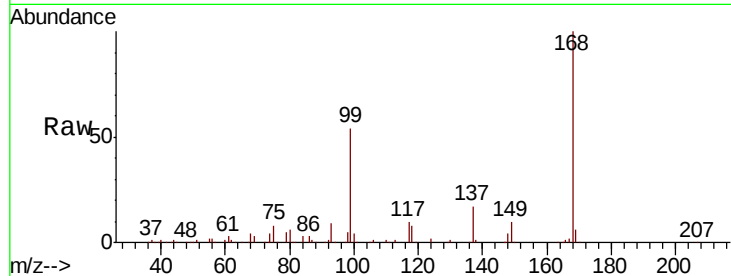
Tot Ion:117 Resp: 40549

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

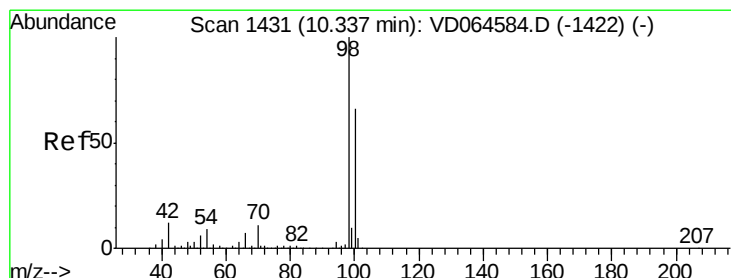
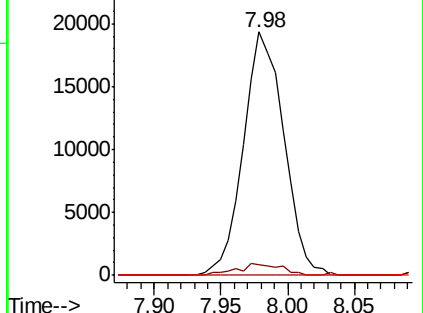
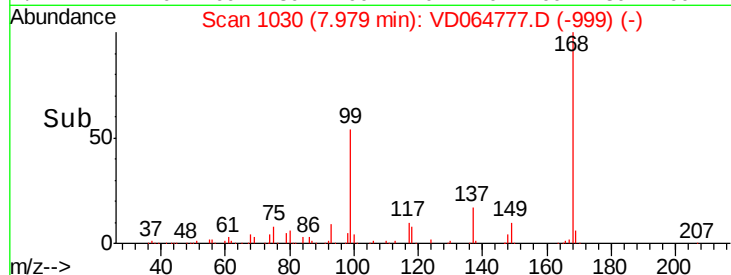
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 50.322 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064777.D

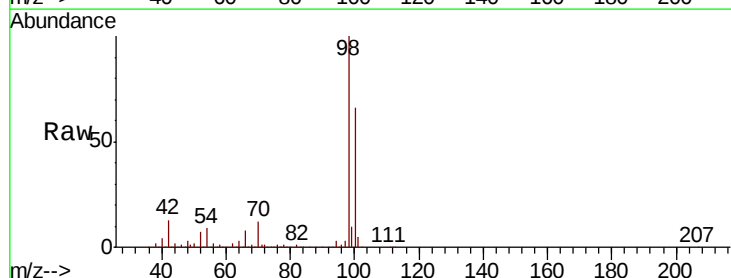
Acq: 06 Jan 2020 17:11

Tgt Ion: 98 Resp: 787649

Ion Ratio Lower Upper

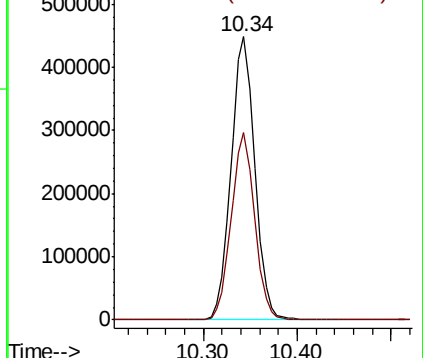
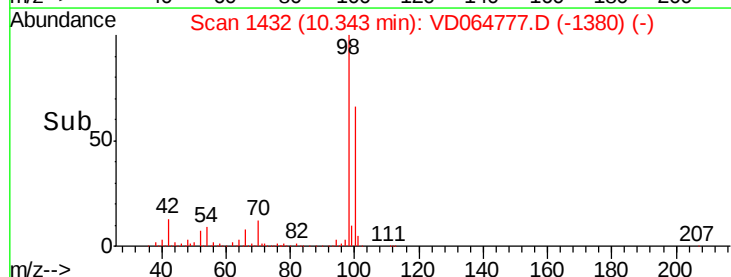
98 100

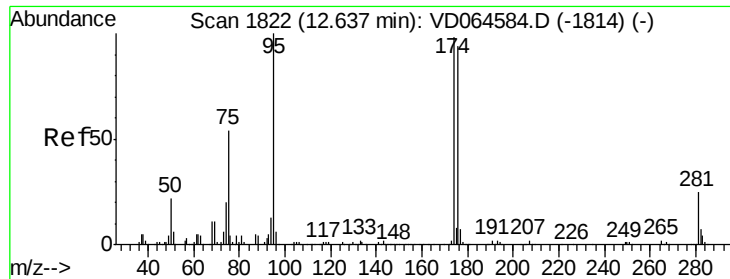
100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

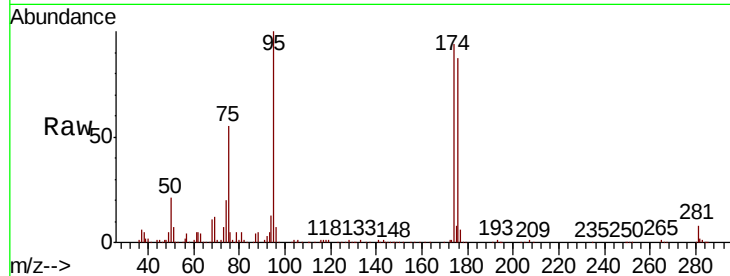




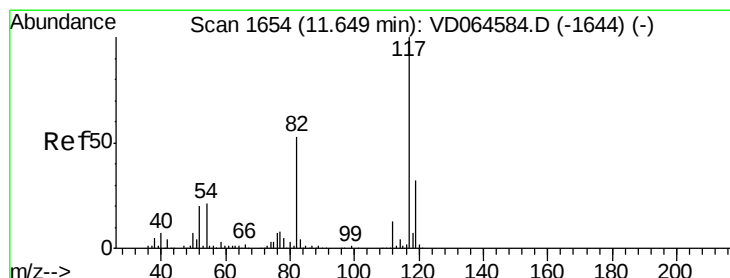
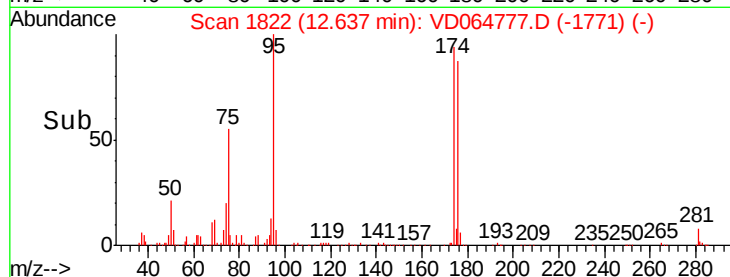
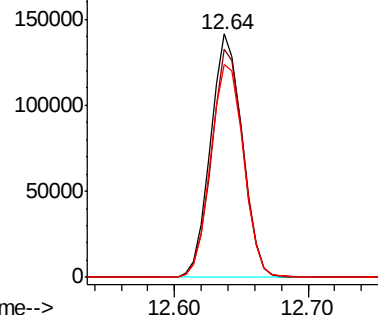
#62  
4-Bromofluorobenzene  
Concen: 46.763 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 231449  
Ion Ratio Lower Upper  
95 100  
174 93.9 0.0 193.2  
176 91.1 0.0 184.2

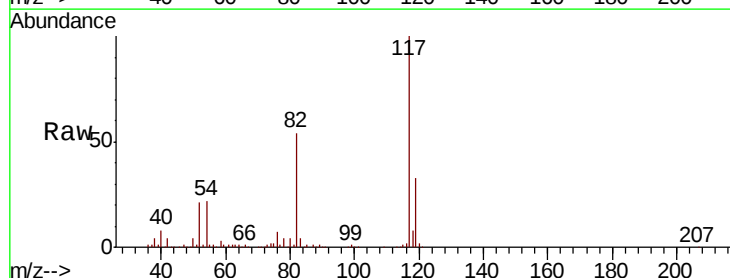


Abundance Ion 94.90 (94.60 to 95.60): VDC  
Ion 173.80 (173.50 to 174.50): VDC  
Ion 175.80 (175.50 to 176.50): VDC

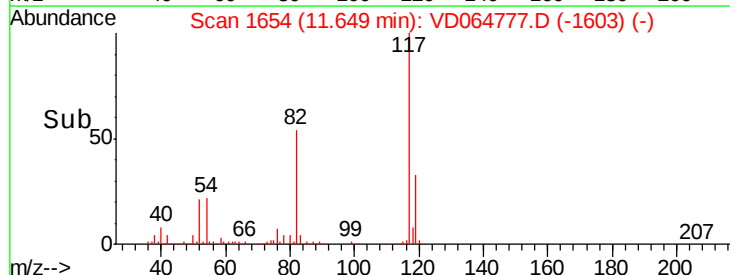
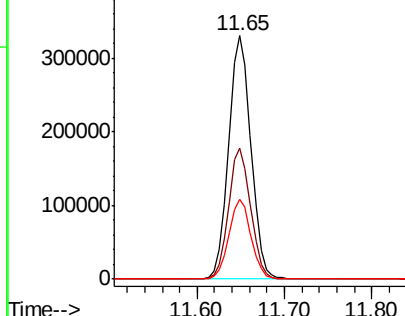


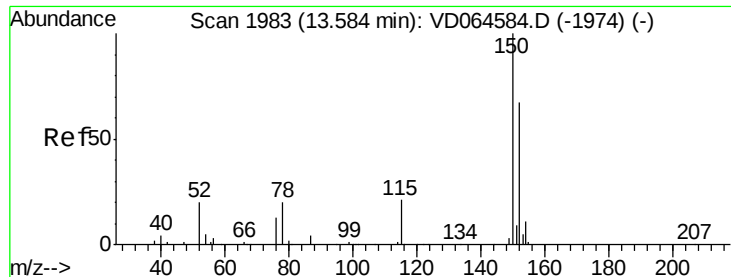
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064777.D  
Acq: 06 Jan 2020 17:11

Tgt Ion: 117 Resp: 575455  
Ion Ratio Lower Upper  
117 100  
82 53.7 42.2 63.4  
119 32.9 26.0 39.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

Instrument :

MSVOA\_D

ClientSampleId :

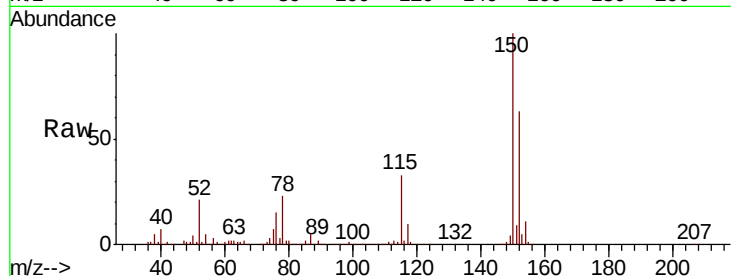
Tot Ion:152 Resp: 239899

Ion Ratio Lower Upper

152 100

115 54.6 27.8 83.4

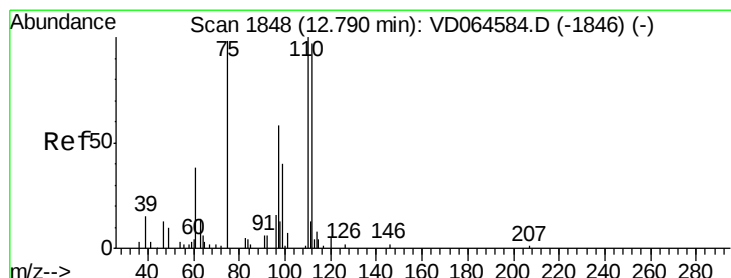
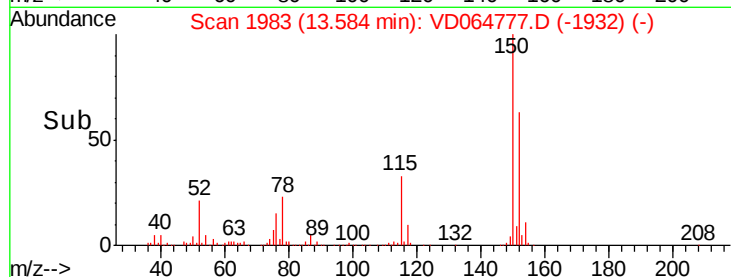
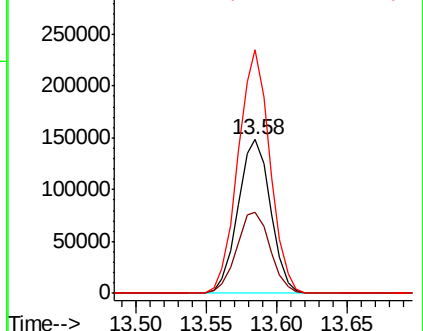
150 154.7 0.0 351.4



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



#76

1,2,3-Trichloropropane

Concen: 64.984 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064777.D

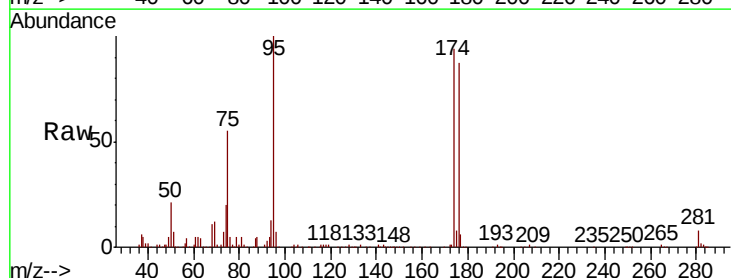
Acq: 06 Jan 2020 17:11

Tgt Ion: 75 Resp: 123105

Ion Ratio Lower Upper

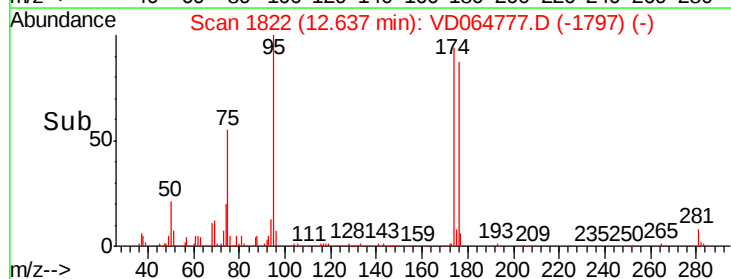
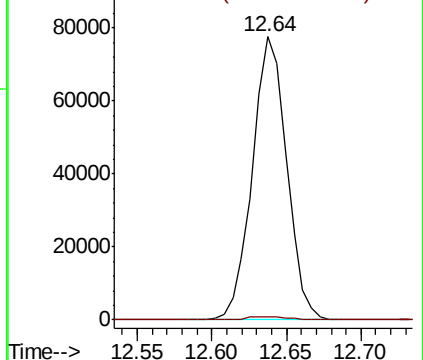
75 100

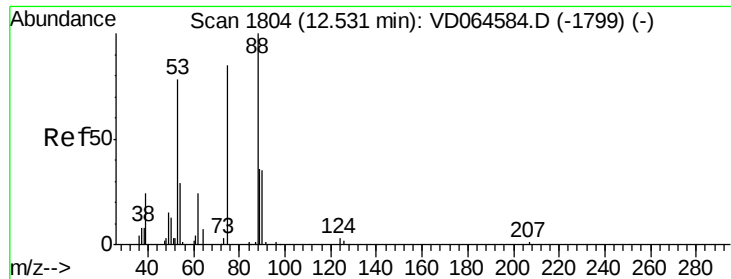
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 135.912 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064777.D

Acq: 06 Jan 2020 17:11

Instrument :

MSVOA\_D

ClientSampleId :

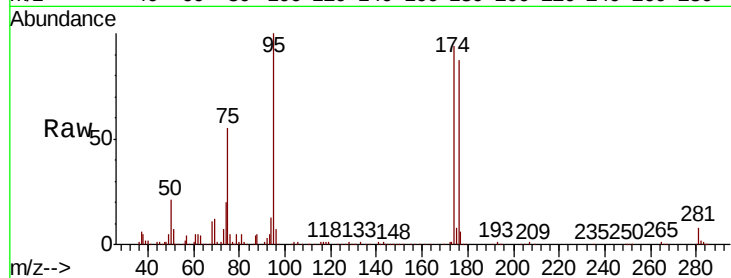
Tot Ion: 75 Resp: 123105

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

