

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081720\  
 Data File : VD066264.D  
 Acq On : 17 Aug 2020 18:09  
 Operator : VA/SY  
 Sample : L3659-07  
 Misc : 5.57G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP1-3

Quant Time: Aug 18 07:53:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 317329   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 508860   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 653254   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 392447   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 131730   | 46.53  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 93.06%  |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 154246   | 47.85  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.70%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 633027   | 53.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.42% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 338964   | 79.05  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 158.10% |          |

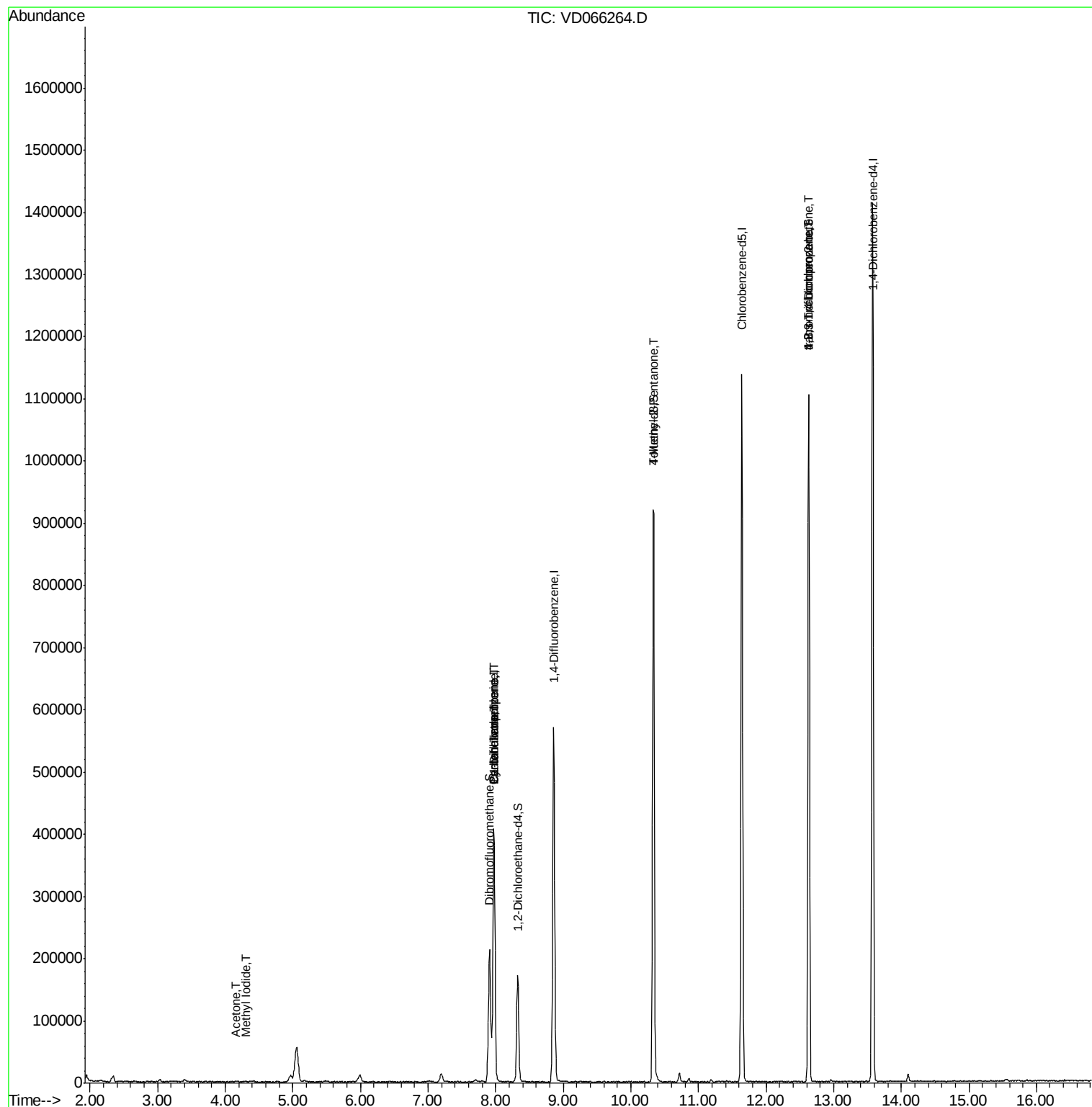
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142  | 195      | 6.773     | ug/l # | 39     |
| 11) Tert butyl alcohol         | 5.21  | 59   | 312      | Below Cal | #      | 76     |
| 16) Acetone                    | 4.16  | 43   | 1002     | 1.865     | ug/l # | 44     |
| 20) Methylene Chloride         | 4.97  | 84   | 7683     | Below Cal | #      | 81     |
| 31) Cyclohexane                | 7.97  | 56   | 6409     | 1.292     | ug/l # | 38     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 21315    | 4.458     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 29185    | 5.473     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 2792     | 1.456     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 172172   | 52.608    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 172172   | 116.293   | ug/l # | 13     |

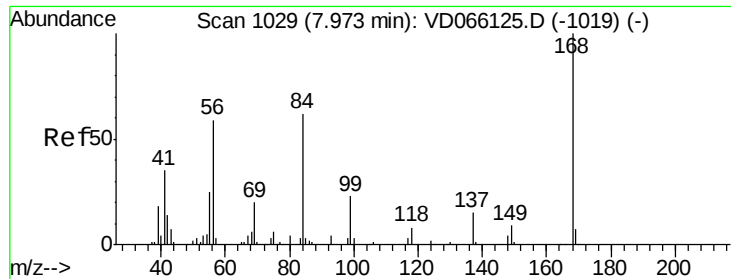
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SP1-3

Quant Time: Aug 18 07:53:48 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
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QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

Instrument :

MSVOA\_D

ClientSampleId :

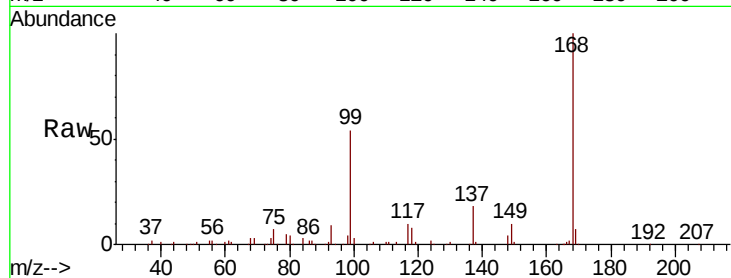
SP1-3

Tot Ion:168 Resp: 317329

Ion Ratio Lower Upper

168 100

99 53.7 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.97

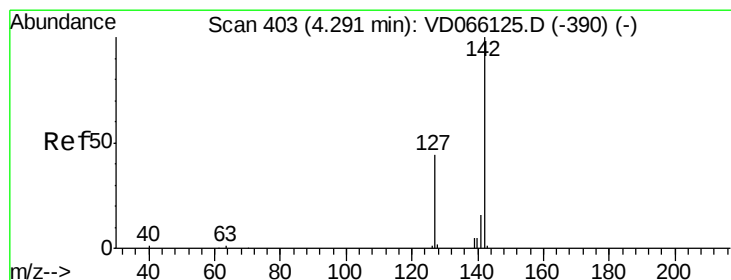
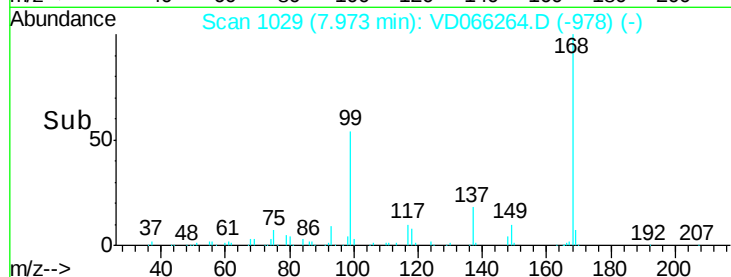
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 6.773 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

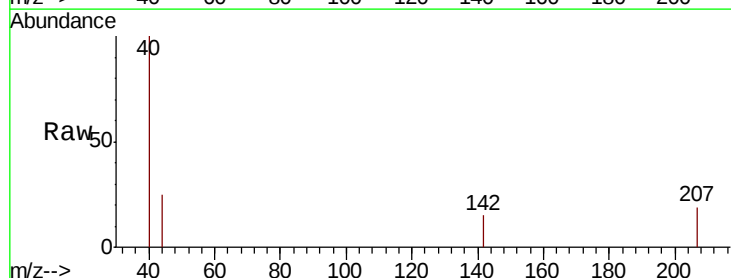
Tgt Ion:142 Resp: 195

Ion Ratio Lower Upper

142 100

127 0.0 36.2 54.4#

141 0.0 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

300

250

200

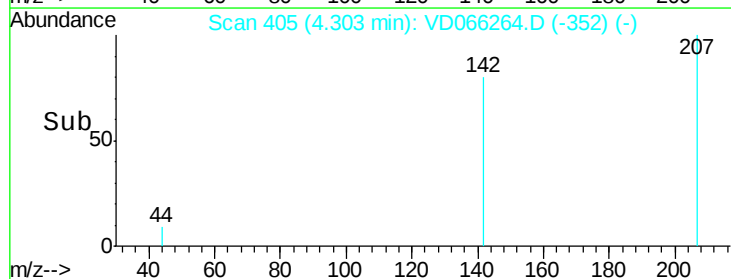
150

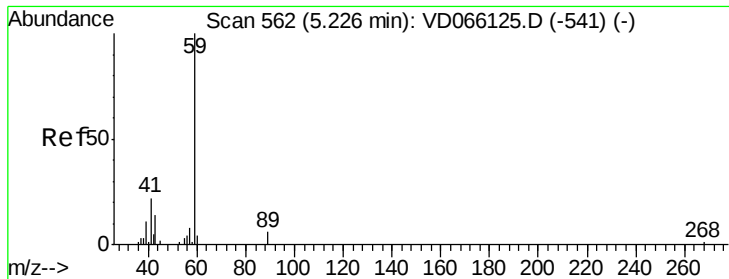
100

50

0

Time-->



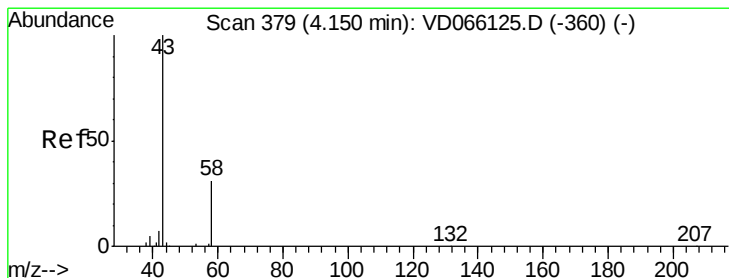
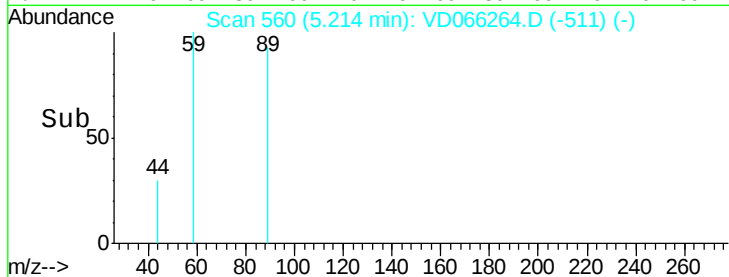
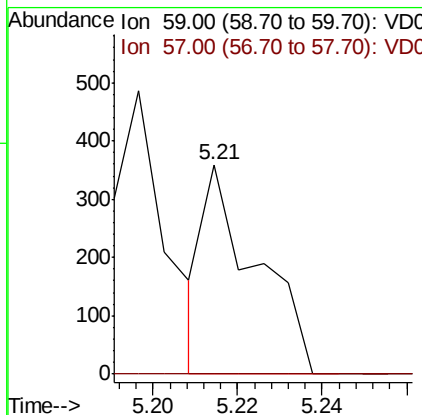
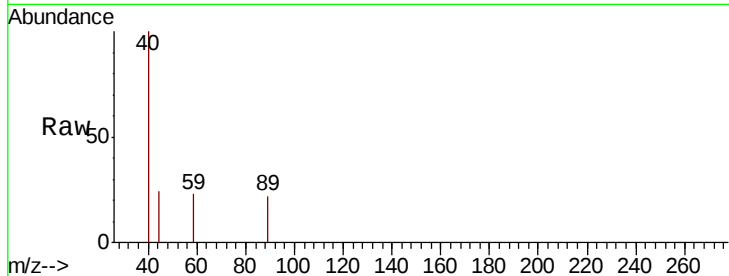


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.21 min Scan# 560  
 Delta R.T. -0.01 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 SP1-3

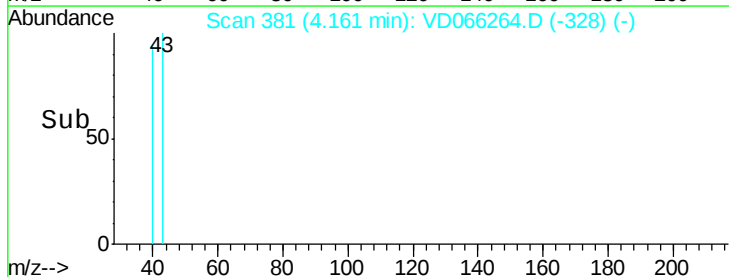
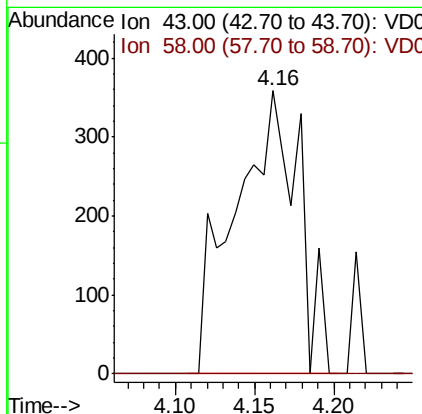
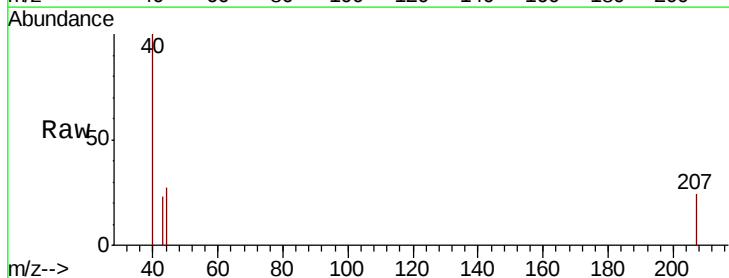
Tot Ion: 59 Resp: 312  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.0 10.4#

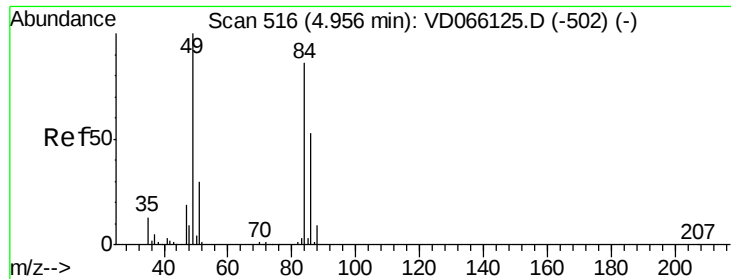


#16

Acetone  
 Concen: 1.865 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

Tgt Ion: 43 Resp: 1002  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 24.7 37.1#

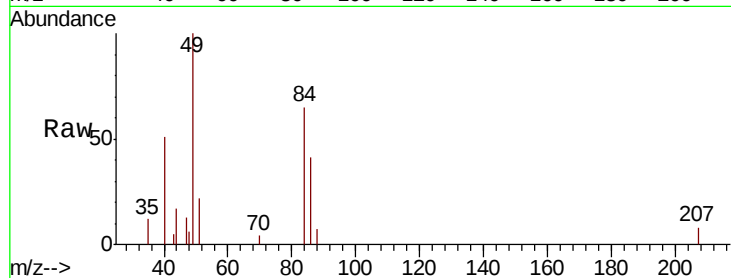




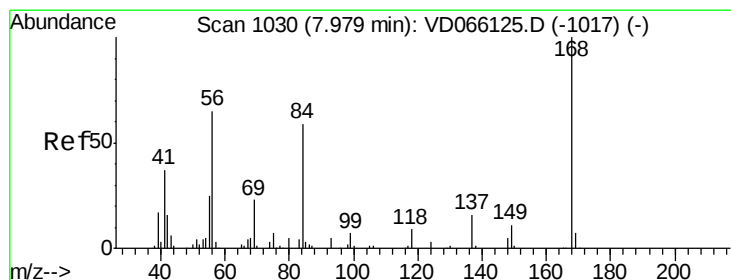
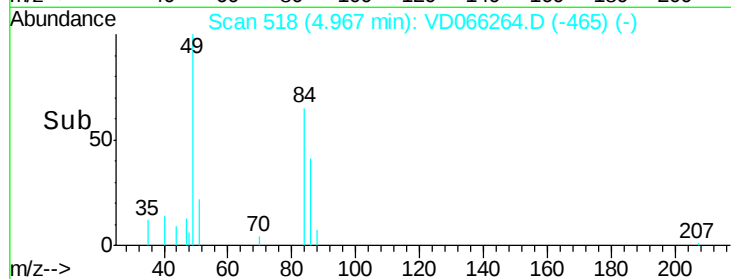
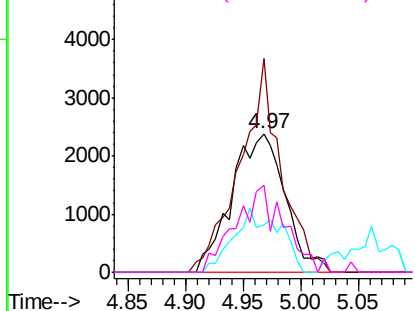
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

Instrument :  
MSVOA\_D  
ClientSampled :  
SP1-3

Tot Ion: 84 Resp: 7683  
Ion Ratio Lower Upper  
84 100  
49 154.3 93.5 140.3#  
51 34.3 28.2 42.4  
86 62.9 49.5 74.3

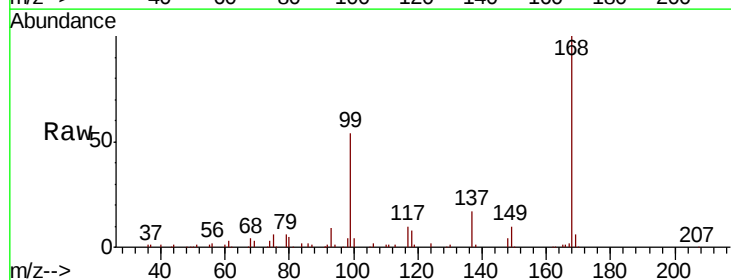


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

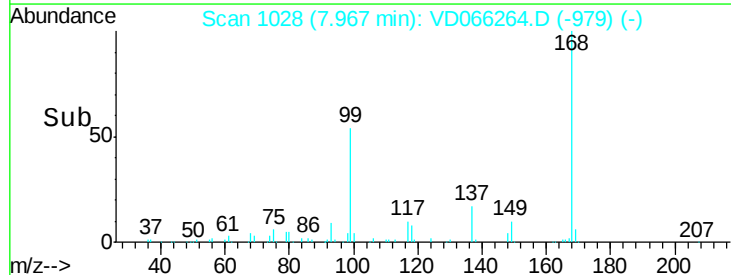
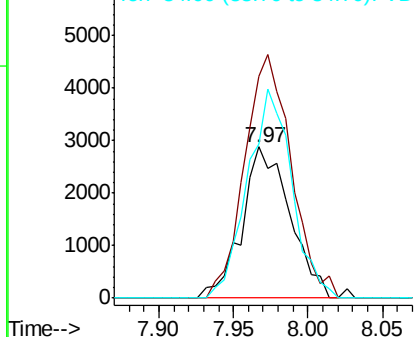


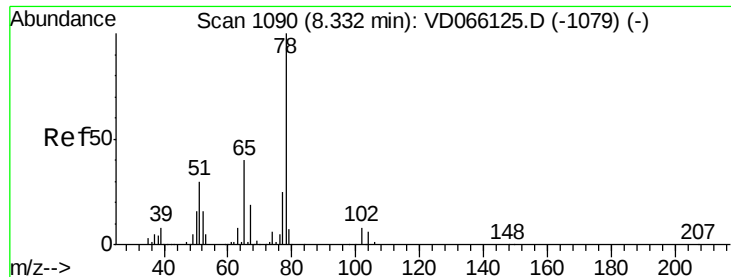
#31  
Cyclohexane  
Concen: 1.292 ug/l  
RT: 7.97 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

Tgt Ion: 56 Resp: 6409  
Ion Ratio Lower Upper  
56 100  
69 147.2 28.8 43.2#  
84 102.3 73.0 109.6



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

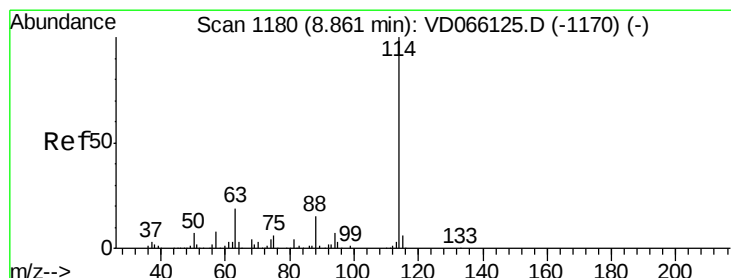
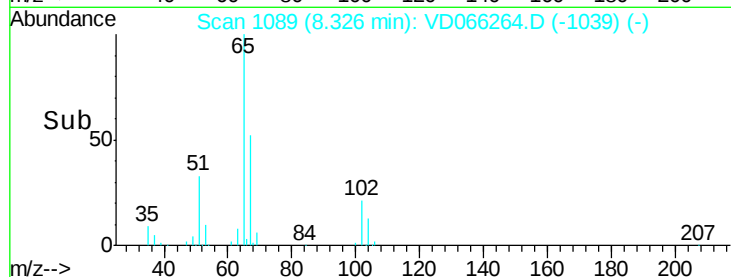
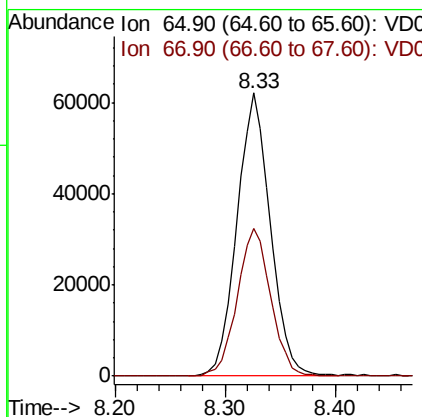
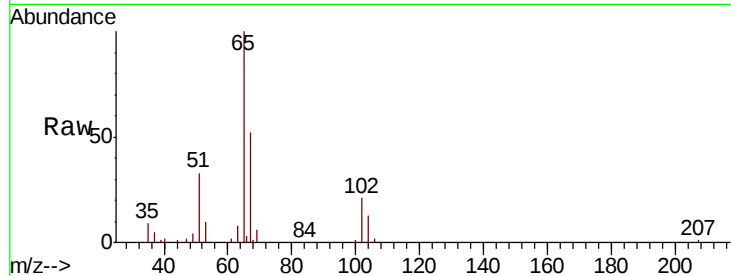




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.530 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. -0.01 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

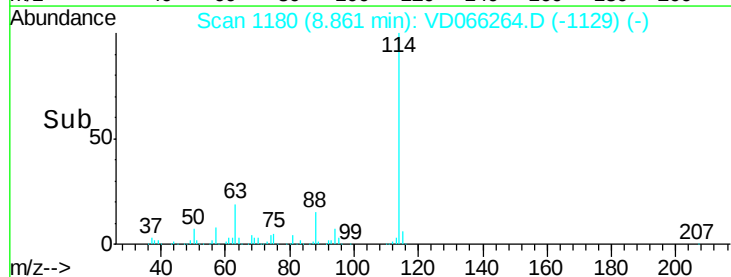
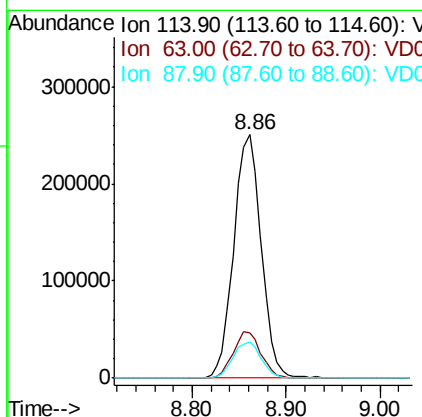
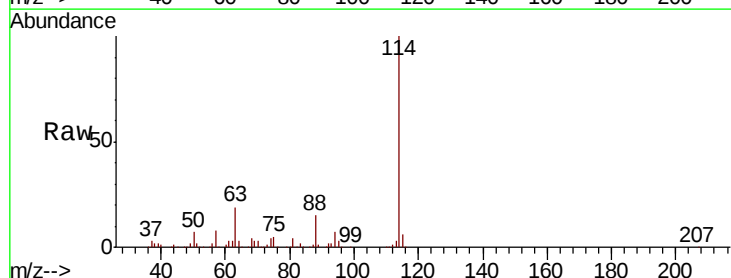
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP1-3

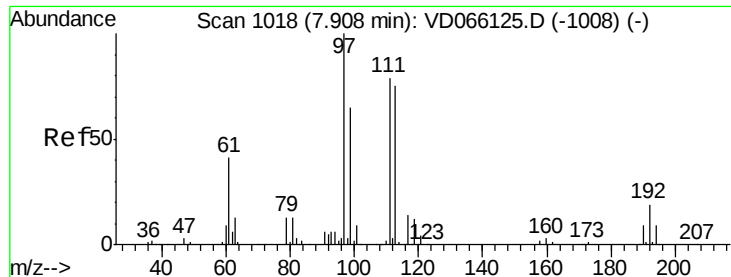
Tot Ion: 65 Resp: 131730  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

Tgt Ion: 114 Resp: 508860  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 38.6  
 88 15.0 0.0 30.0

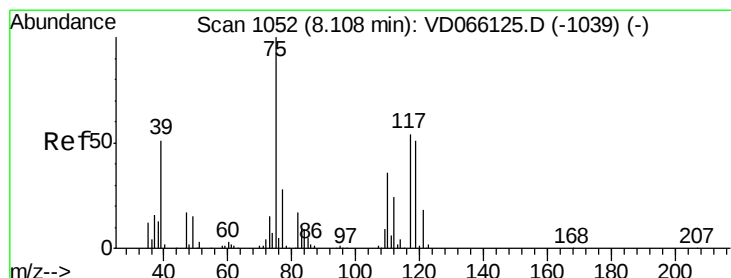
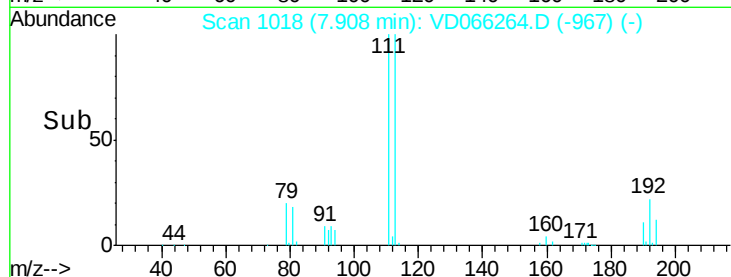
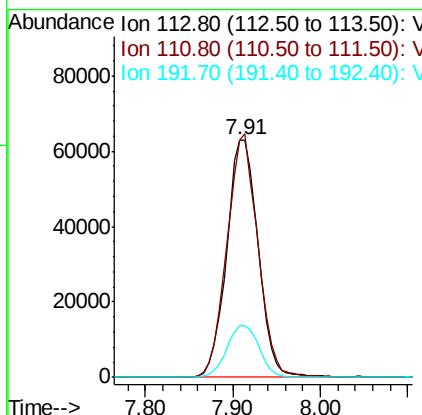
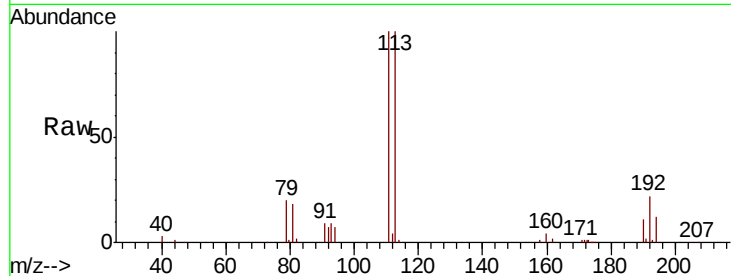




#35  
 Dibromofluoromethane  
 Concen: 47.849 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. -0.00 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

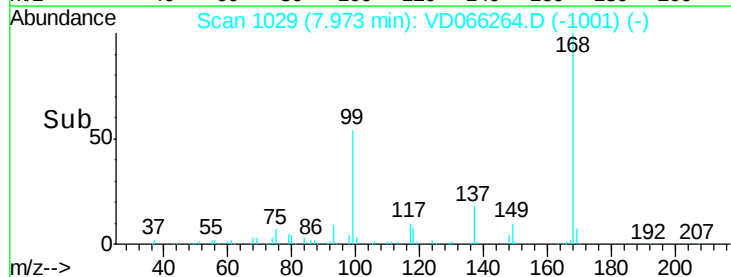
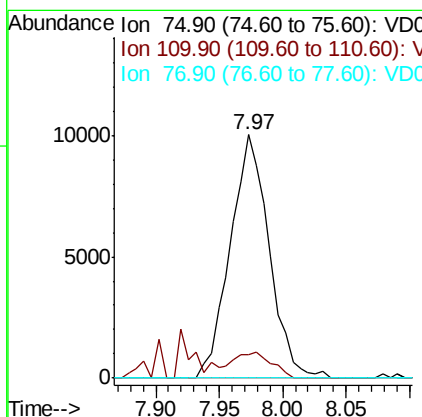
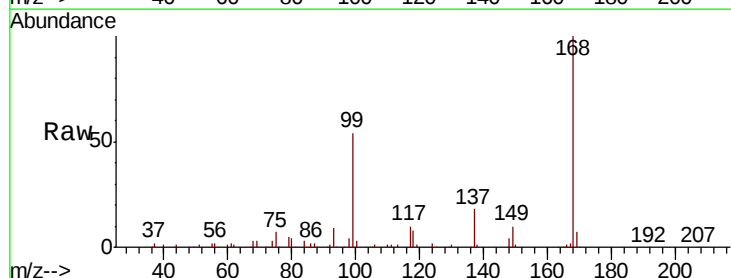
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP1-3

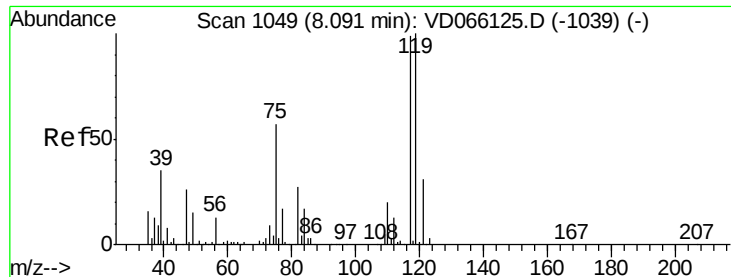
Tot Ion:113 Resp: 154246  
 Ion Ratio Lower Upper  
 113 100  
 111 100.5 80.7 121.1  
 192 22.2 18.4 27.6



#36  
 1,1-Dichloropropene  
 Concen: 4.458 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066264.D  
 Acq: 17 Aug 2020 18:09

Tgt Ion: 75 Resp: 21315  
 Ion Ratio Lower Upper  
 75 100  
 110 10.6 18.8 56.3#  
 77 0.0 24.2 36.2#

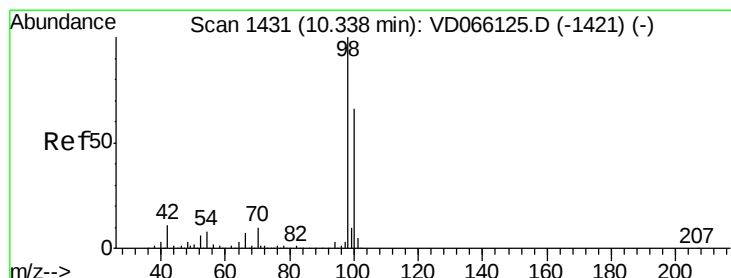
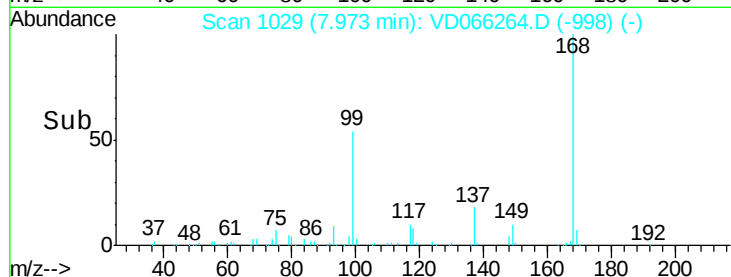
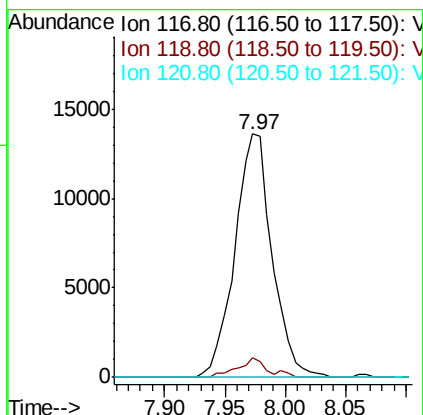
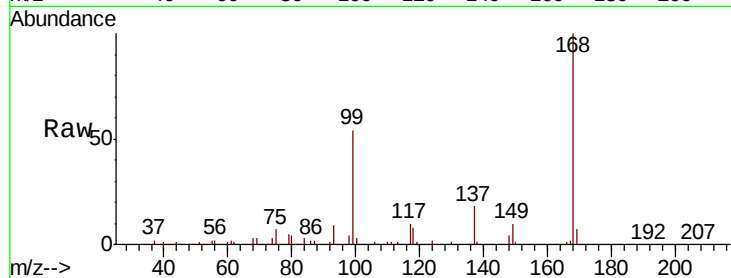




#38  
Carbon Tetrachloride  
Concen: 5.473 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.12 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

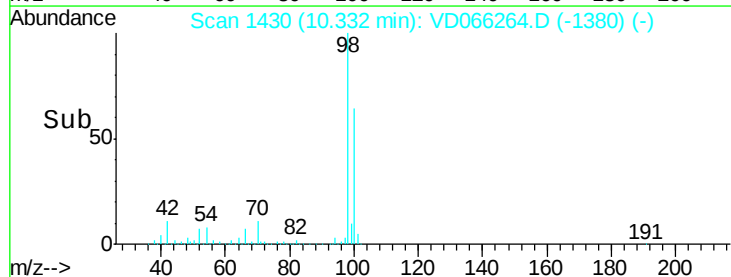
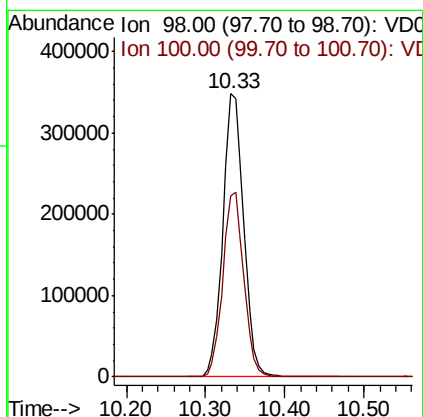
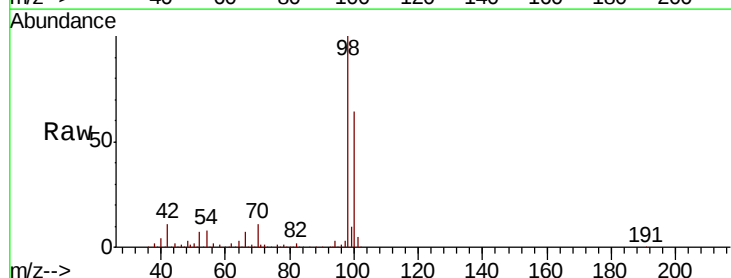
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP1-3

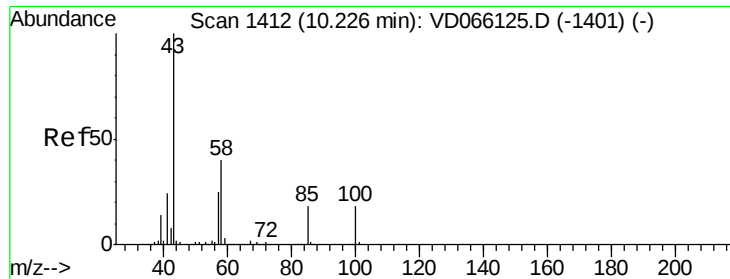
Tot Ion:117 Resp: 29185  
Ion Ratio Lower Upper  
117 100  
119 8.3 81.0 121.4#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 53.214 ug/l  
RT: 10.33 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

Tgt Ion: 98 Resp: 633027  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 1.456 ug/l

RT: 10.33 min Scan# 1429

Delta R.T. 0.10 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

Instrument :

MSVOA\_D

ClientSampleId :

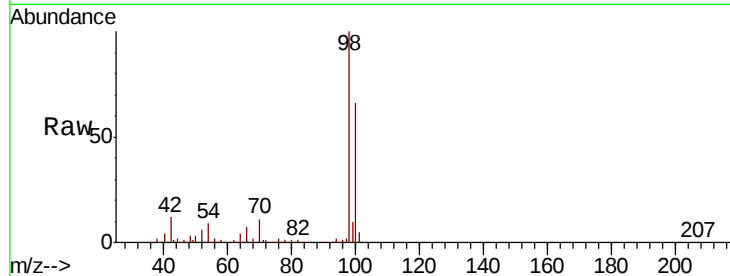
SP1-3

Tot Ion: 43 Resp: 2792

Ion Ratio Lower Upper

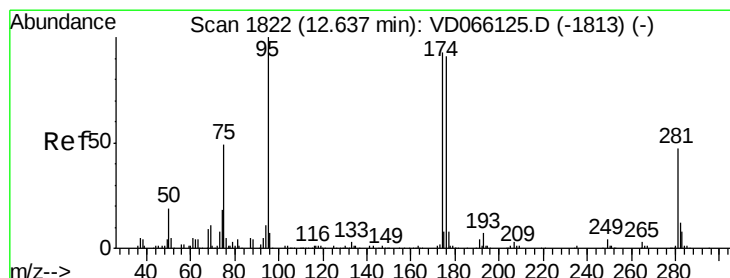
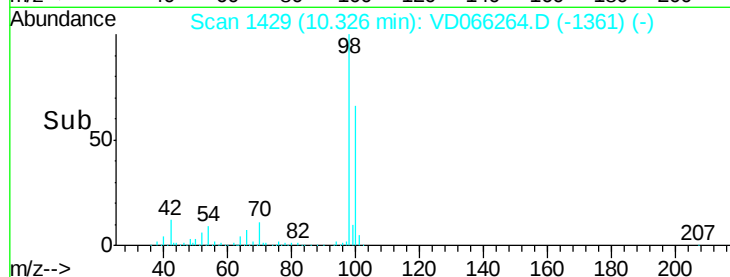
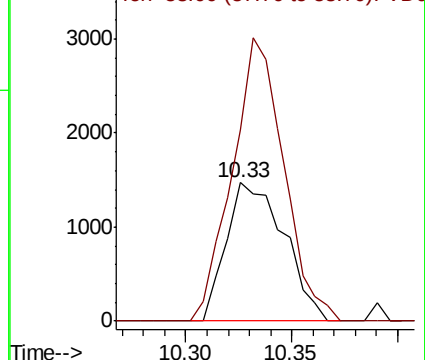
43 100

58 182.8 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 79.050 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

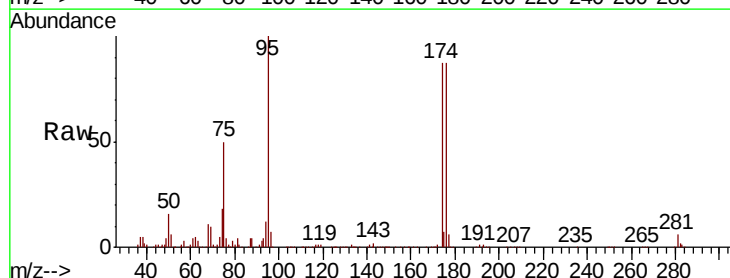
Tgt Ion: 95 Resp: 338964

Ion Ratio Lower Upper

95 100

174 89.5 0.0 180.8

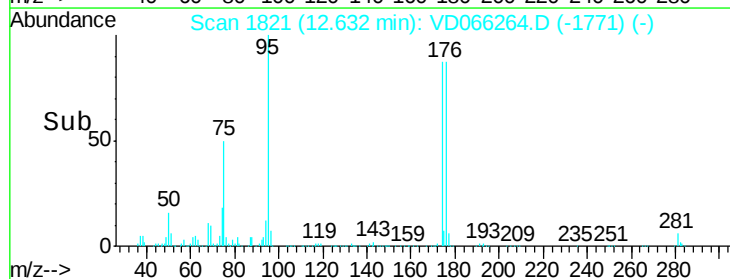
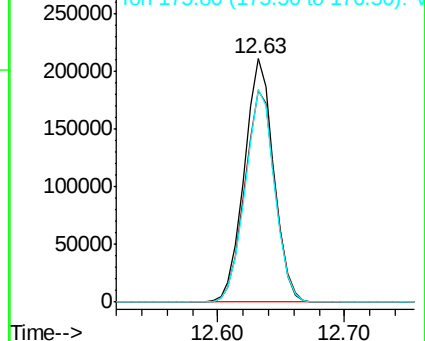
176 87.6 0.0 181.2

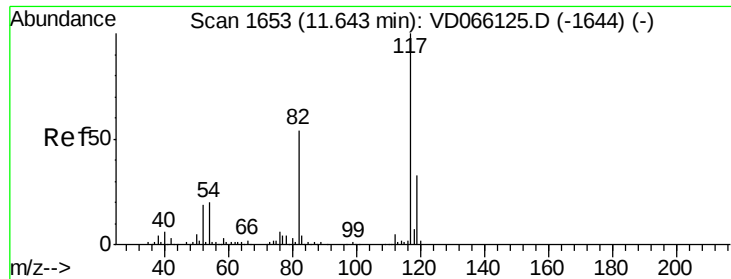


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

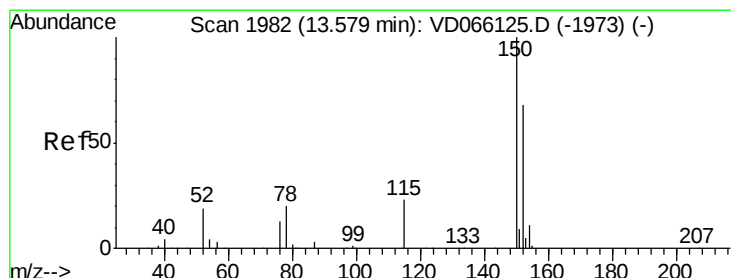
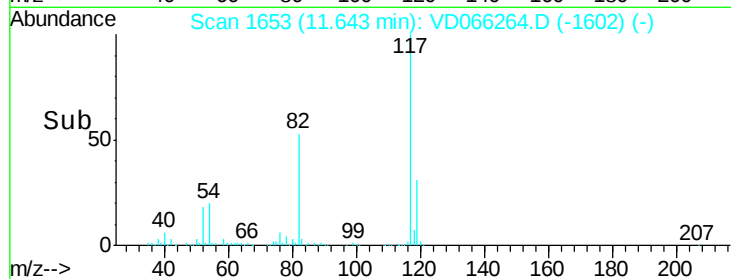
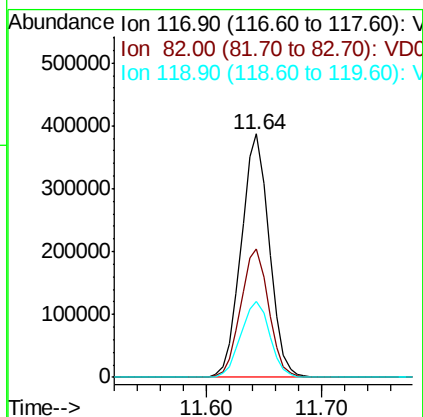
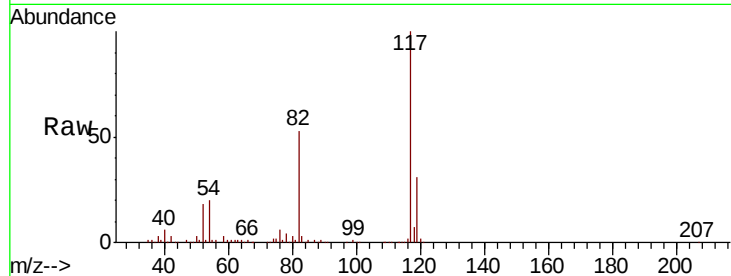




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

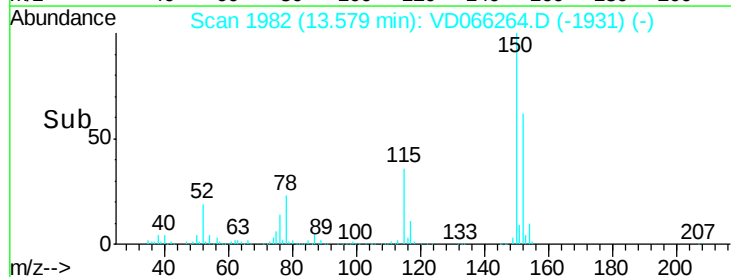
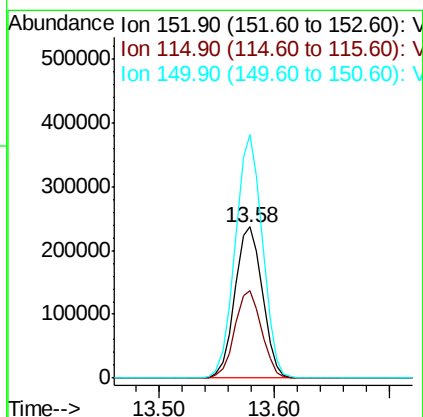
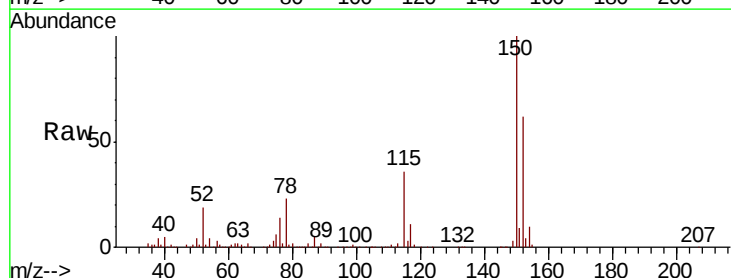
Instrument :  
MSVOA\_D  
ClientSampled :  
SP1-3

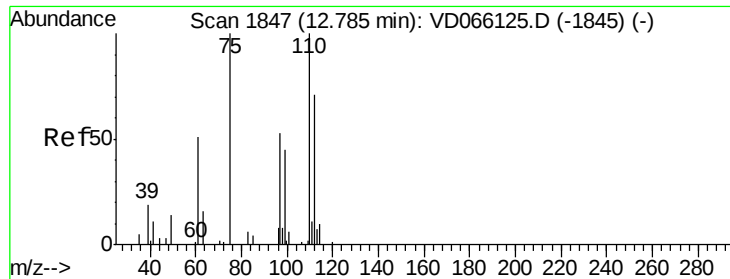
Tot Ion:117 Resp: 653254  
Ion Ratio Lower Upper  
117 100  
82 52.7 43.0 64.4  
119 31.0 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066264.D  
Acq: 17 Aug 2020 18:09

Tgt Ion:152 Resp: 392447  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.0 83.9  
150 158.0 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 52.608 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

Instrument :

MSVOA\_D

ClientSampleId :

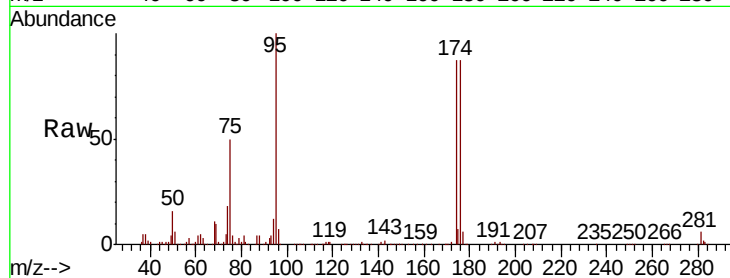
SP1-3

Tot Ion: 75 Resp: 172172

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

120000

100000

80000

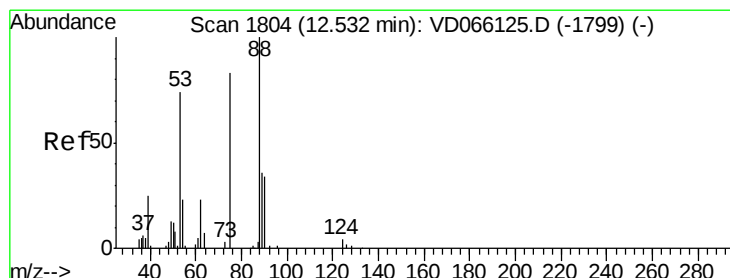
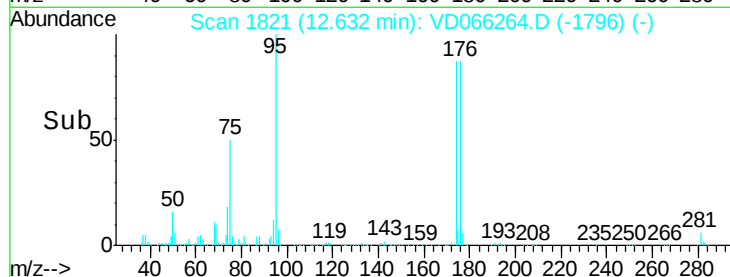
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 116.293 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066264.D

Acq: 17 Aug 2020 18:09

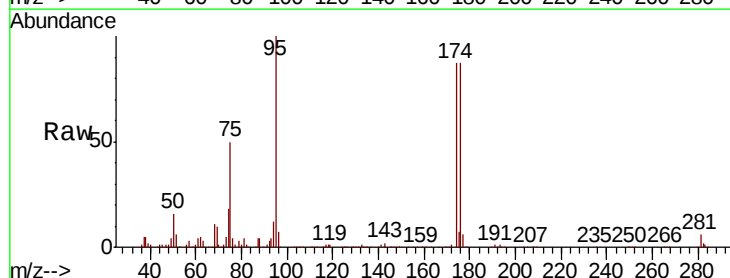
Tgt Ion: 75 Resp: 172172

Ion Ratio Lower Upper

75 100

53 0.1 73.4 110.2#

89 0.0 36.6 55.0#



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

12.63

100000

50000

0

Time-->

