

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090320\  
 Data File : VD066548.D  
 Acq On : 03 Sep 2020 21:51  
 Operator : VA/SY  
 Sample : L3888--01  
 Misc : 7.75G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 9-2-TP-1

Quant Time: Sep 04 05:55:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 04 01:57:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 365645   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 660658   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 596946   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 241529   | 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   | 242291   | 54.77  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.54% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 225931   | 50.69  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.38% |          |
| 50) Toluene-d8              | 10.34 | 98   | 809456   | 50.82  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.64% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 244539   | 46.30  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 92.60%  |          |

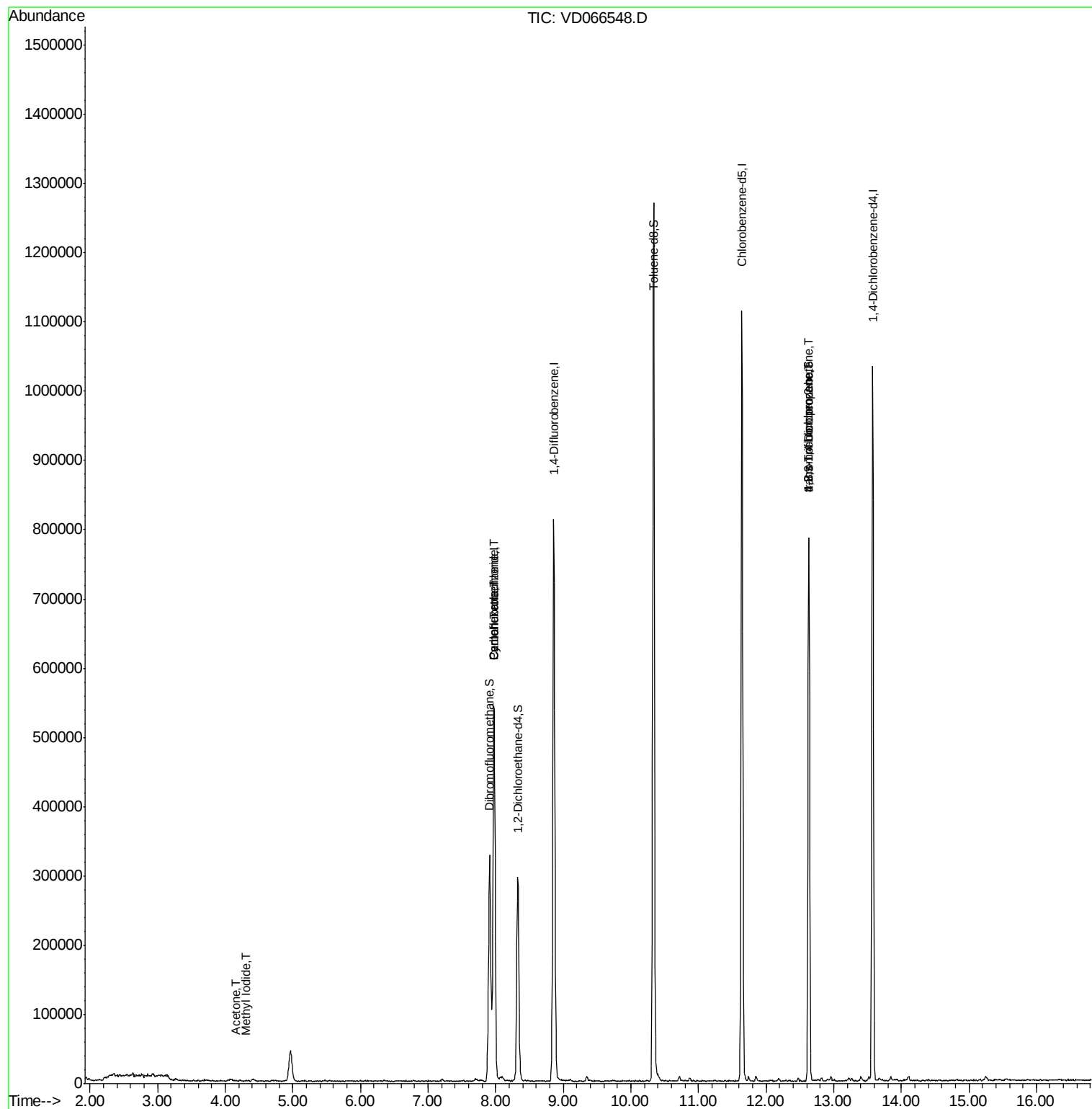
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 1294     | Below Cal | #      | 46     |
| 5) Bromomethane                | 2.77  | 94   | 1222     | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 4.30  | 142  | 817      | 4.224     | ug/l # | 66     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 83       | Below Cal | #      | 74     |
| 16) Acetone                    | 4.16  | 43   | 1186     | 1.457     | ug/l # | 46     |
| 31) Cyclohexane                | 7.98  | 56   | 11555    | 1.601     | ug/l # | 25     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 41276    | 5.680     | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 142899   | 61.518    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 142899   | 143.624   | ug/l # | 7      |

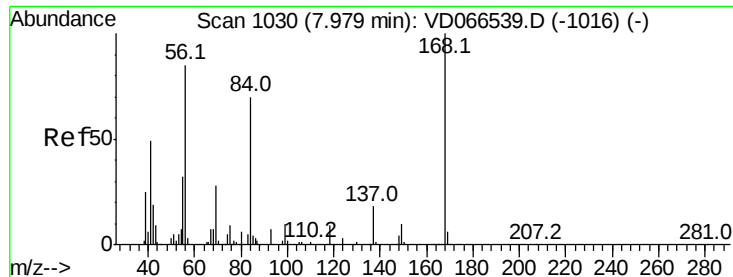
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 04 01:57:04 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

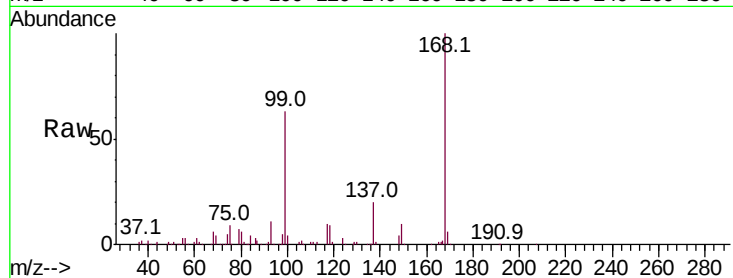
9-2-TP-1

Tot Ion:168 Resp: 365645

Ion Ratio Lower Upper

168 100

99 62.4 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

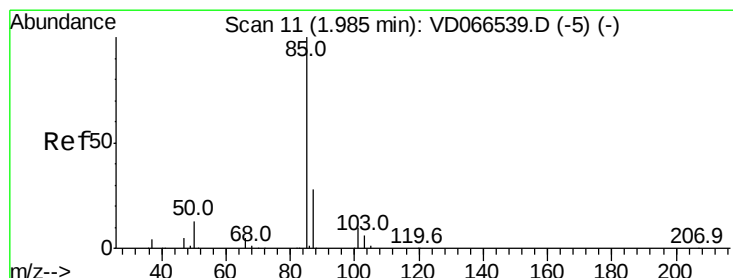
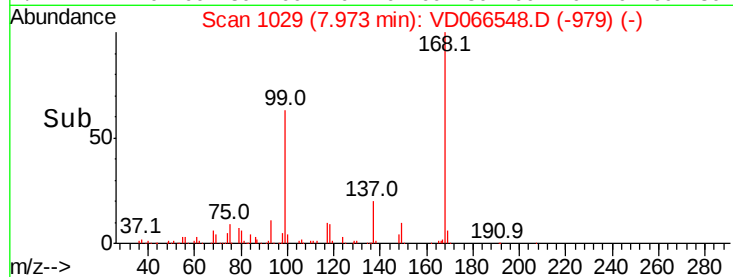
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066548.D

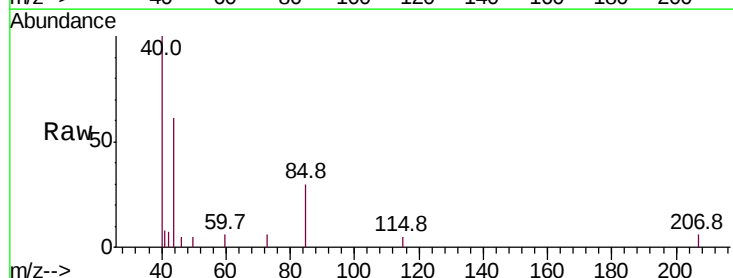
Acq: 03 Sep 2020 21:51

Tgt Ion: 85 Resp: 1294

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

1200

1000

800

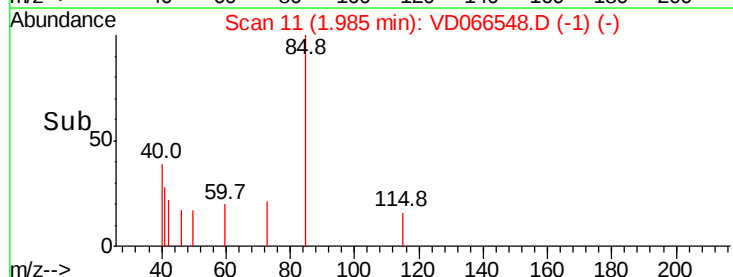
600

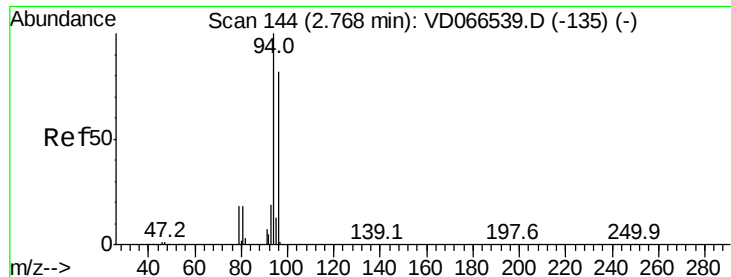
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

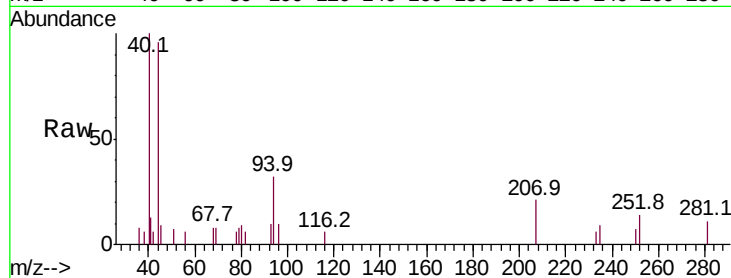
9-2-TP-1

Tot Ion: 94 Resp: 1222

Ion Ratio Lower Upper

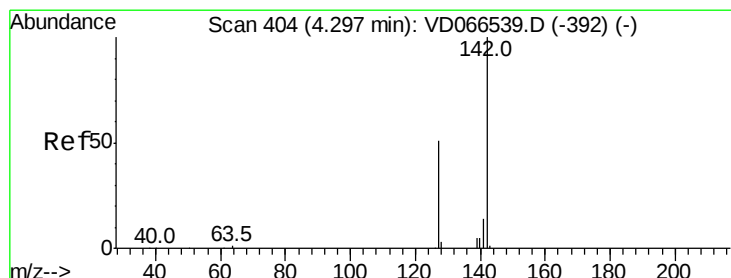
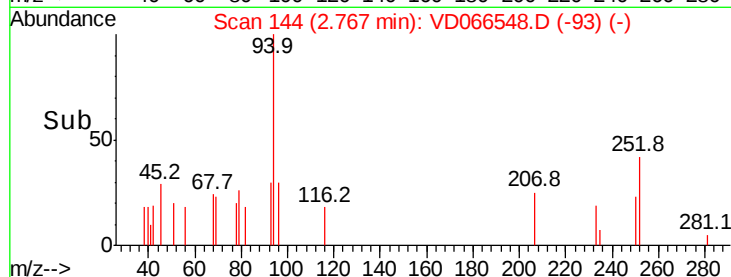
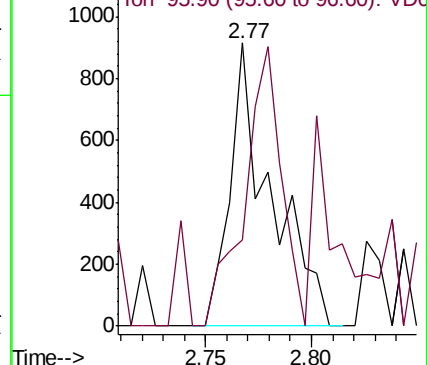
94 100

96 30.4 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.224 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

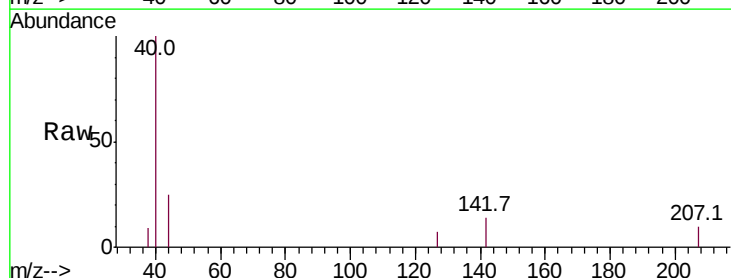
Tgt Ion: 142 Resp: 817

Ion Ratio Lower Upper

142 100

127 27.4 40.6 61.0#

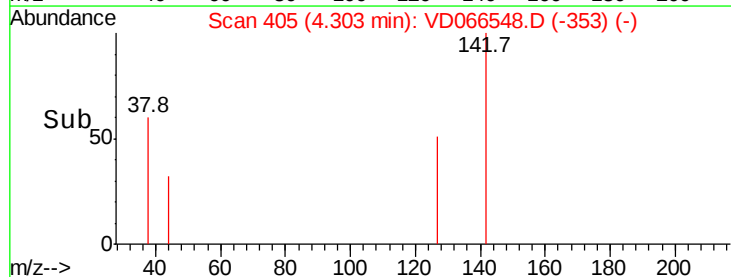
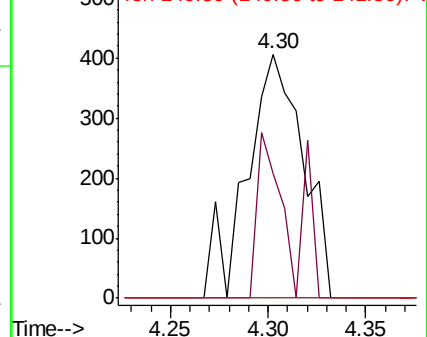
141 0.0 12.2 18.4#

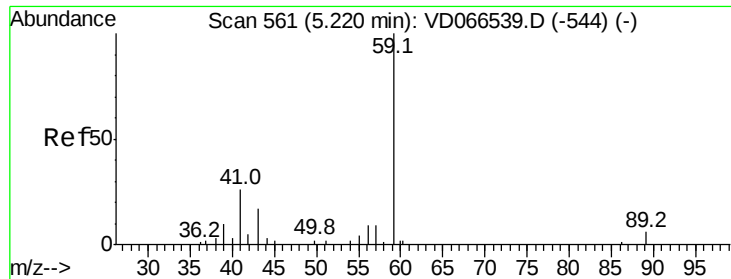


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

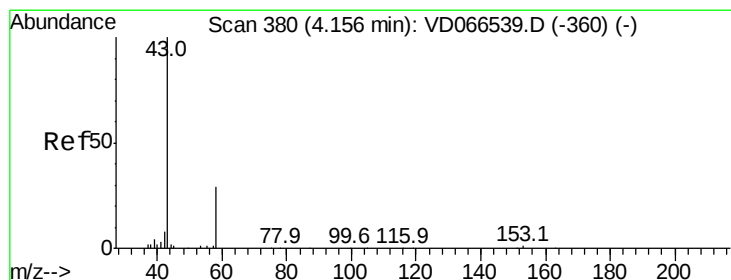
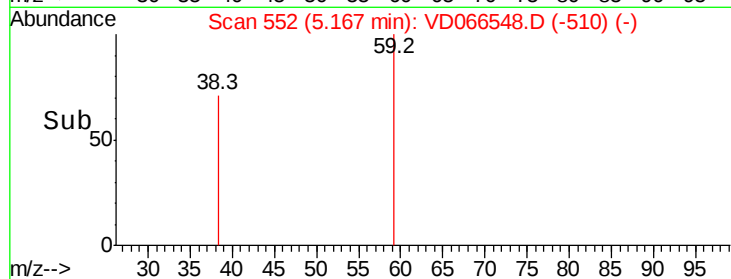
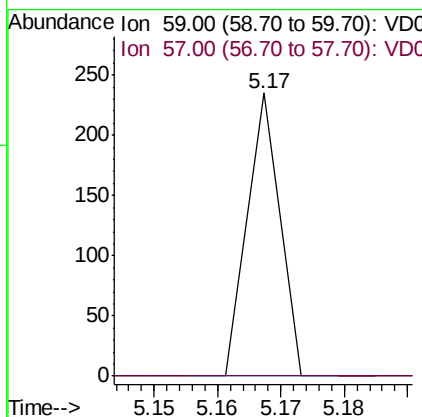
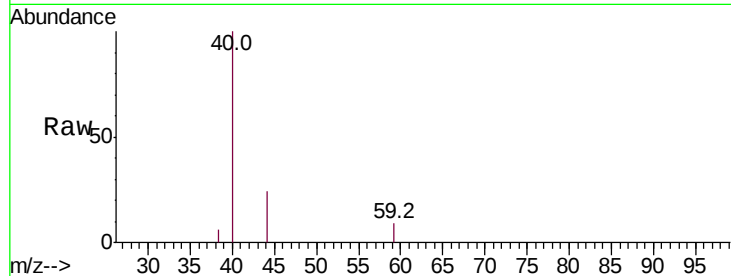




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.17 min Scan# 552  
Delta R.T. -0.05 min  
Lab File: VD066548.D  
Acq: 03 Sep 2020 21:51

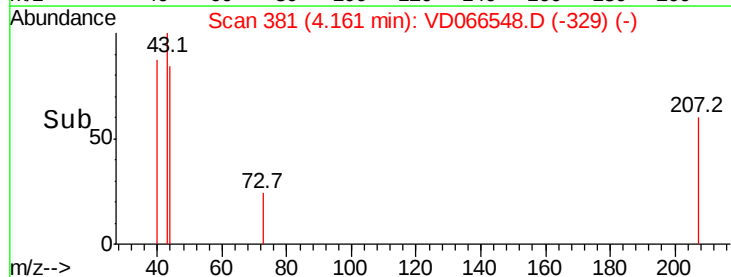
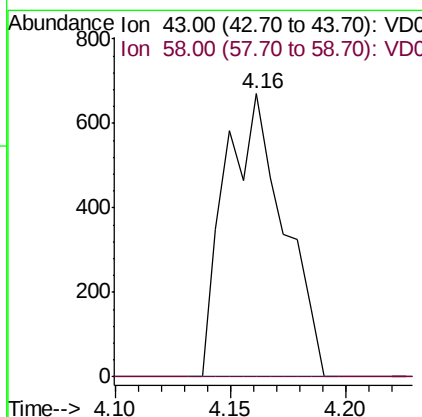
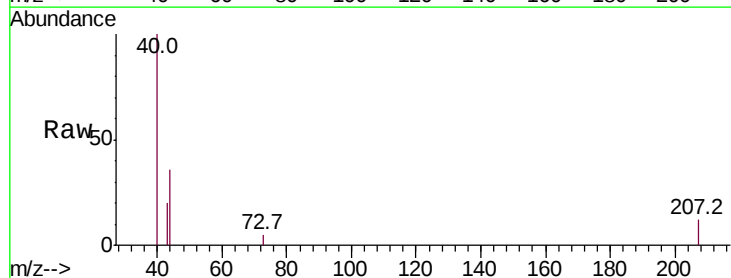
Instrument :  
MSVOA\_D  
ClientSampleID :  
9-2-TP-1

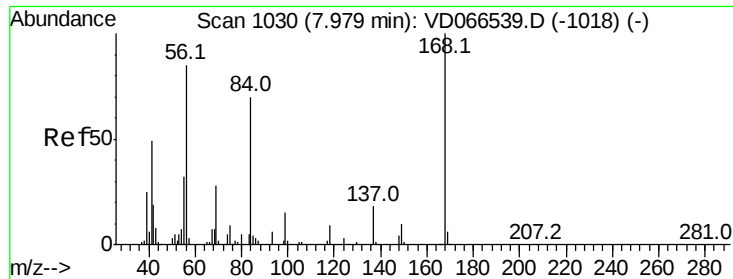
Tot Ion: 59 Resp: 83  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.6 11.4#



#16  
Acetone  
Concen: 1.457 ug/l  
RT: 4.16 min Scan# 381  
Delta R.T. 0.01 min  
Lab File: VD066548.D  
Acq: 03 Sep 2020 21:51

Tgt Ion: 43 Resp: 1186  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.9 34.3#





#31

Cyclohexane

Concen: 1.601 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

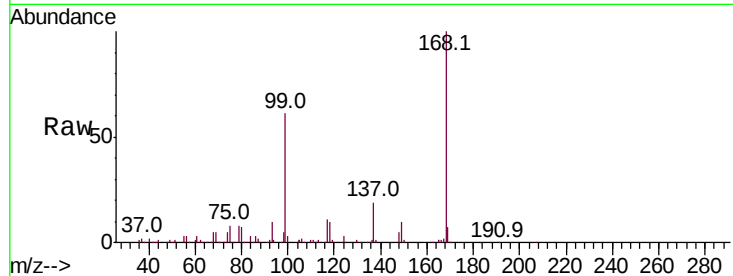
Tot Ion: 56 Resp: 11555

Ion Ratio Lower Upper

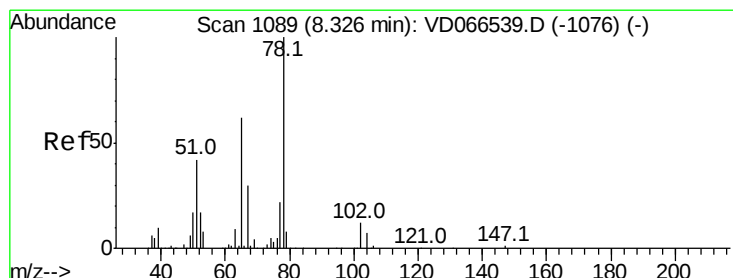
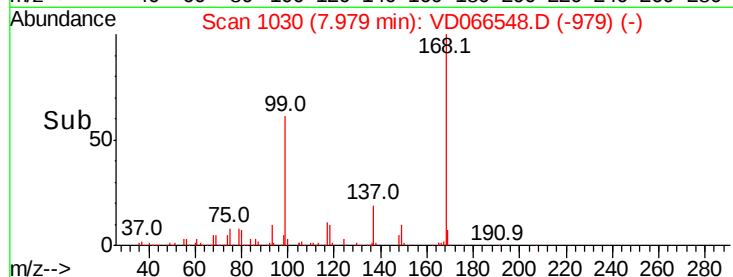
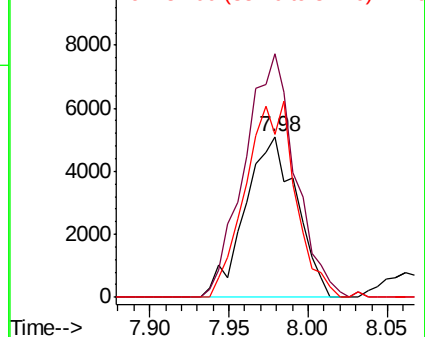
56 100

69 151.6 26.3 39.5#

84 101.5 66.1 99.1#



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: 54.768 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066548.D

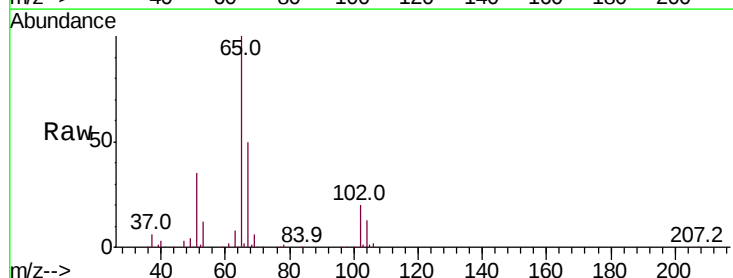
Acq: 03 Sep 2020 21:51

Tgt Ion: 65 Resp: 242291

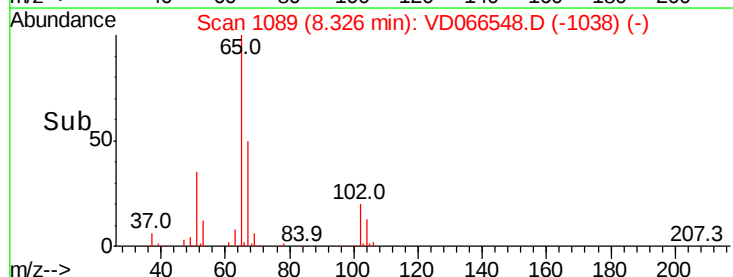
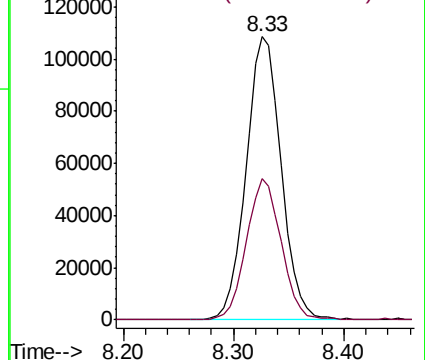
Ion Ratio Lower Upper

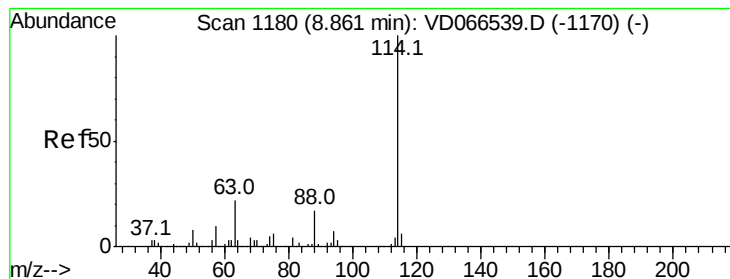
65 100

67 49.5 0.0 102.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

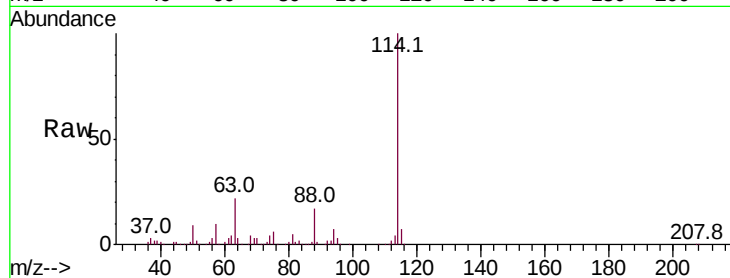
Tot Ion:114 Resp: 660658

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

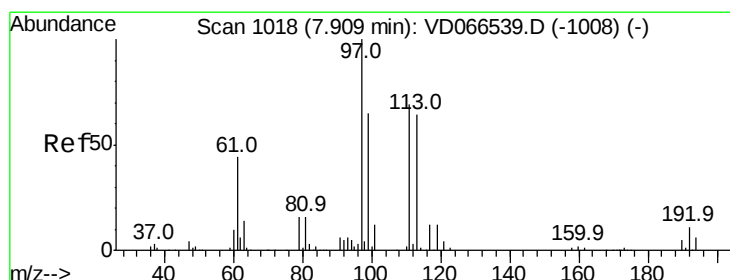
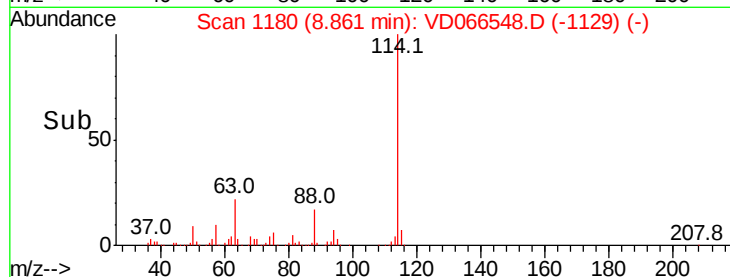
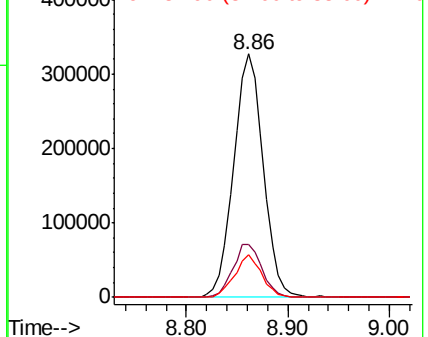
88 17.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.693 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

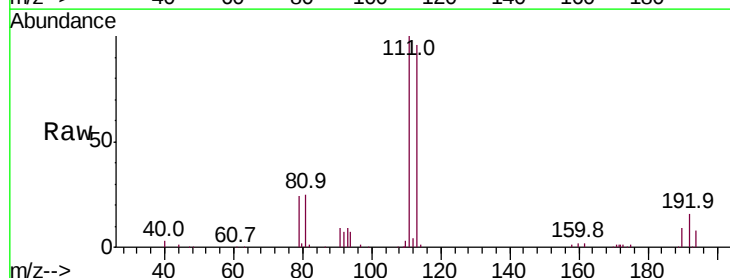
Tgt Ion:113 Resp: 225931

Ion Ratio Lower Upper

113 100

111 104.5 83.2 124.8

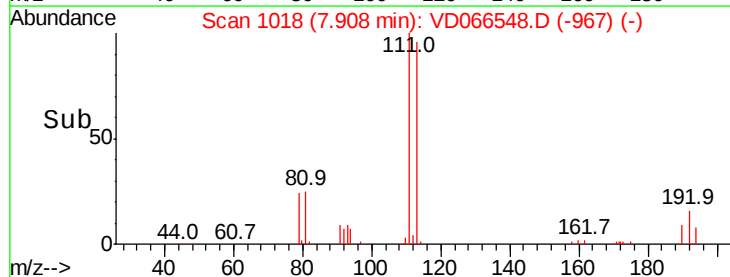
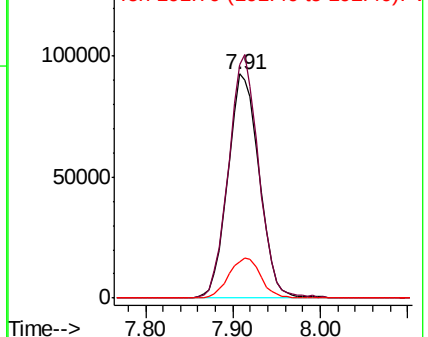
192 18.1 13.7 20.5

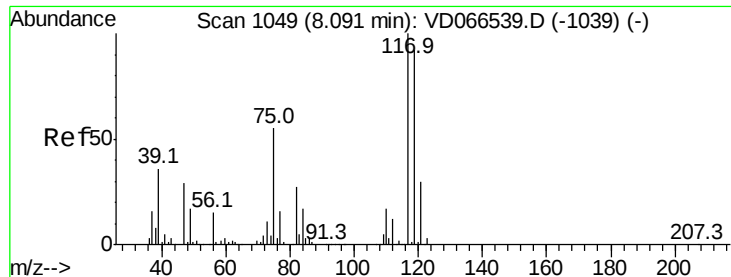


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.680 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

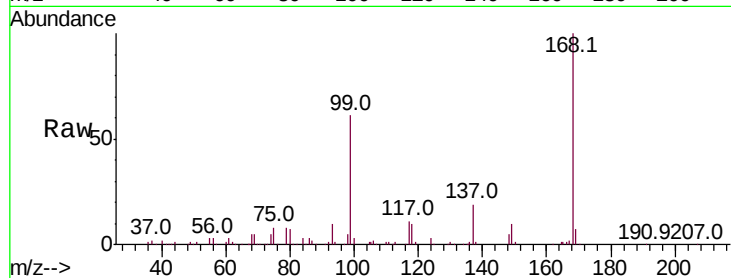
Tot Ion:117 Resp: 41276

Ion Ratio Lower Upper

117 100

119 7.5 73.9 110.9#

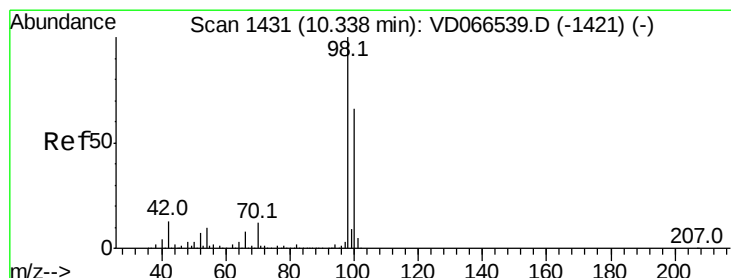
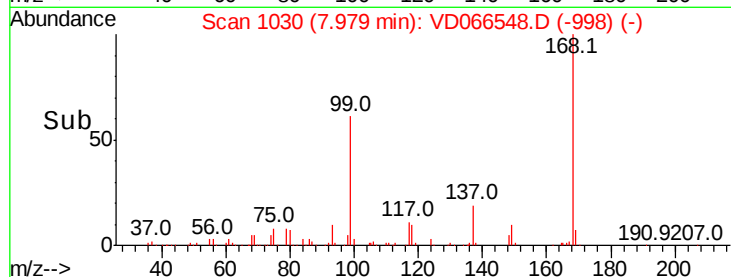
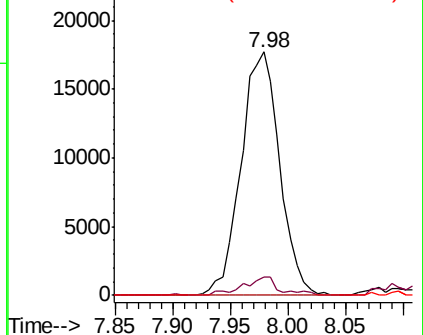
121 0.0 24.1 36.1#



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: 50.815 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066548.D

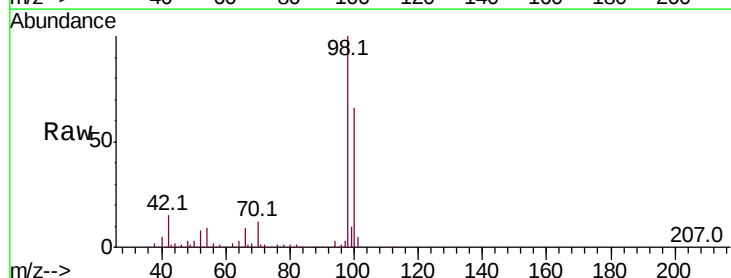
Acq: 03 Sep 2020 21:51

Tgt Ion: 98 Resp: 809456

Ion Ratio Lower Upper

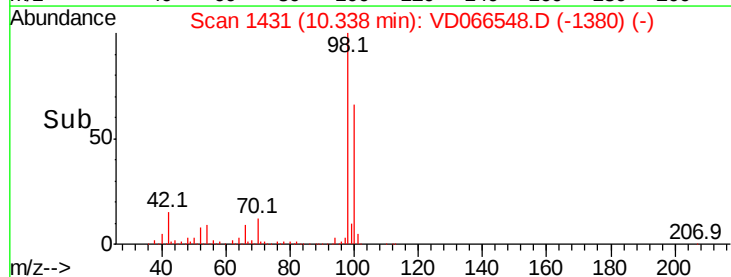
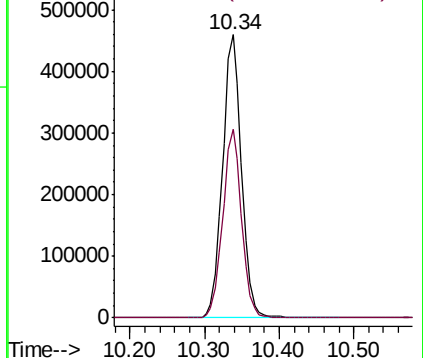
98 100

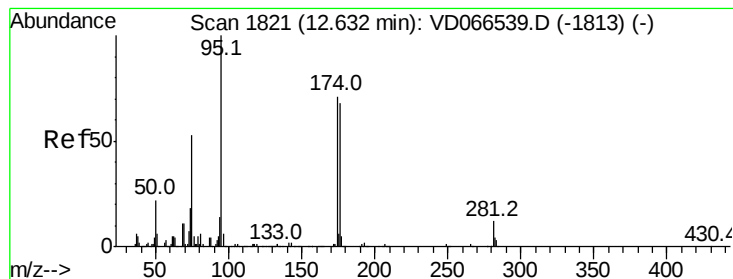
100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.296 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

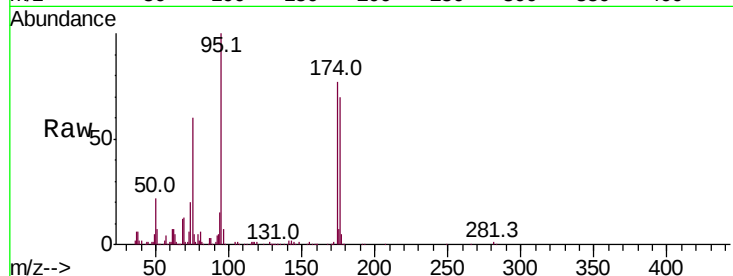
Tot Ion: 95 Resp: 244539

Ion Ratio Lower Upper

95 100

174 77.5 0.0 155.8

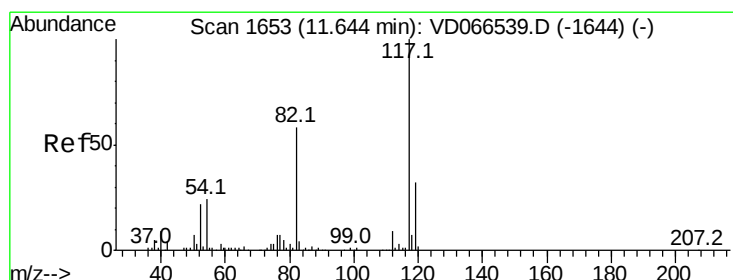
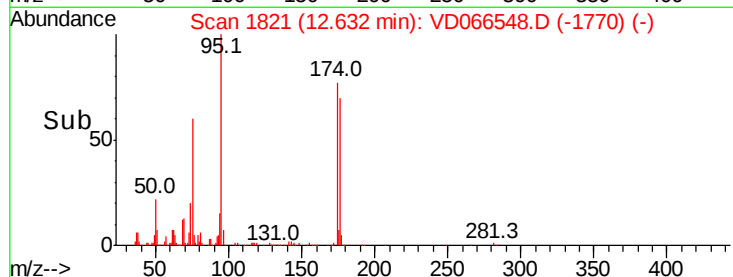
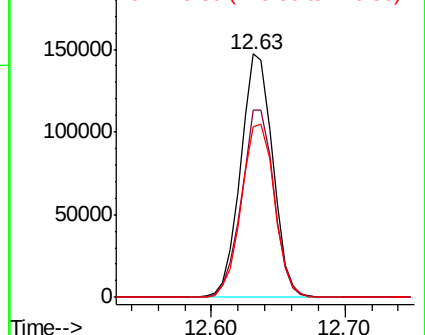
176 73.5 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

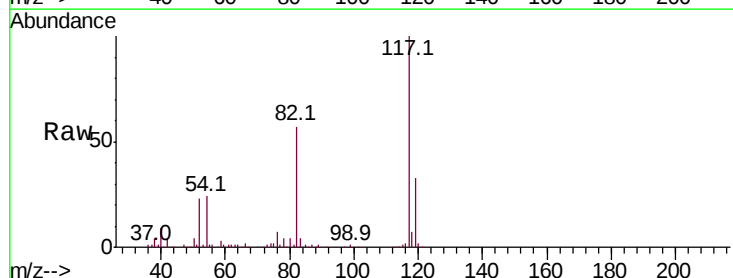
Tgt Ion: 117 Resp: 596946

Ion Ratio Lower Upper

117 100

82 57.3 46.2 69.2

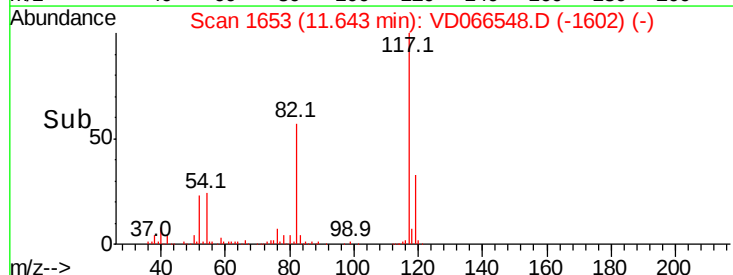
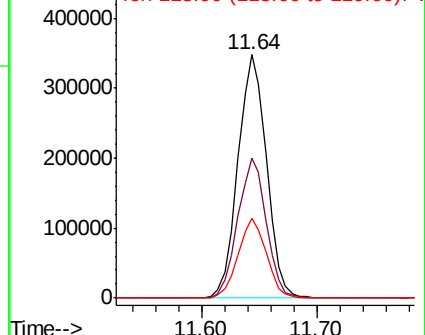
119 32.8 25.8 38.8

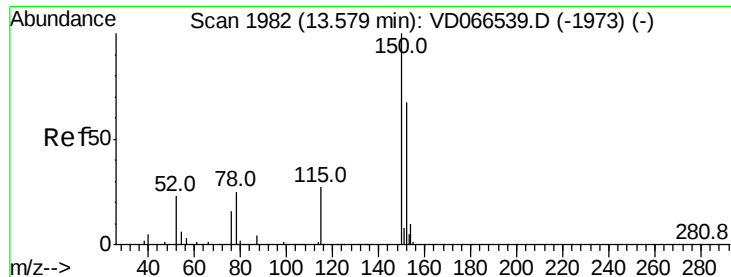


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

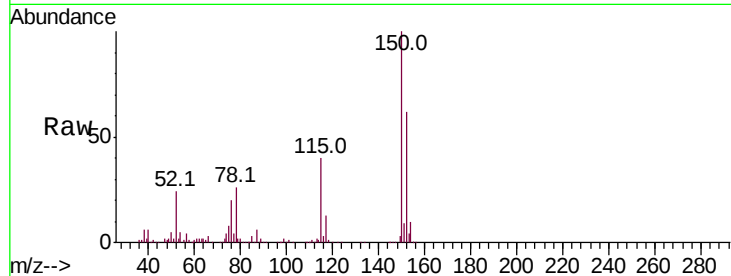
Tot Ion:152 Resp: 241529

Ion Ratio Lower Upper

152 100

115 63.0 30.4 91.2

150 160.0 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

300000

200000

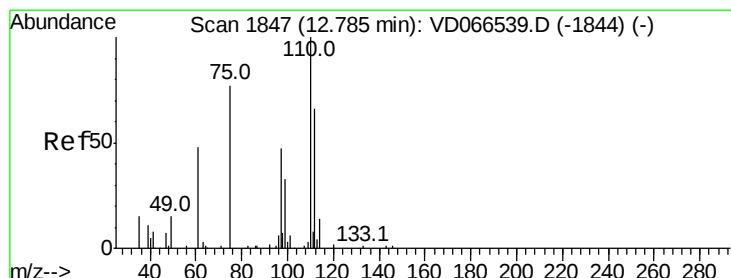
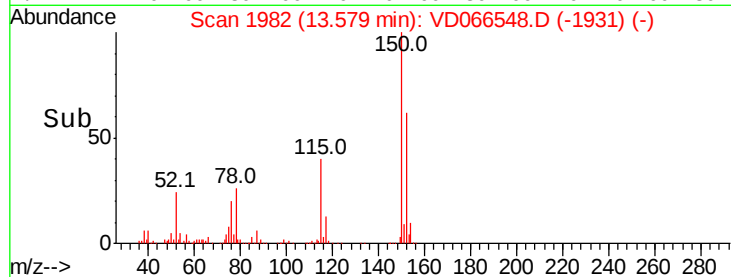
100000

0

13.58

13.50 13.55 13.60 13.65

Time-->



#76

1,2,3-Trichloropropane

Concen: 61.518 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066548.D

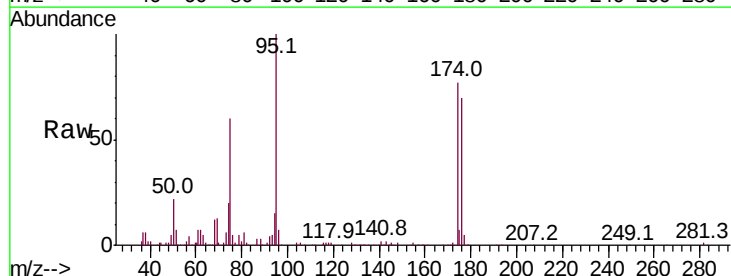
Acq: 03 Sep 2020 21:51

Tgt Ion: 75 Resp: 142899

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

100000

80000

60000

40000

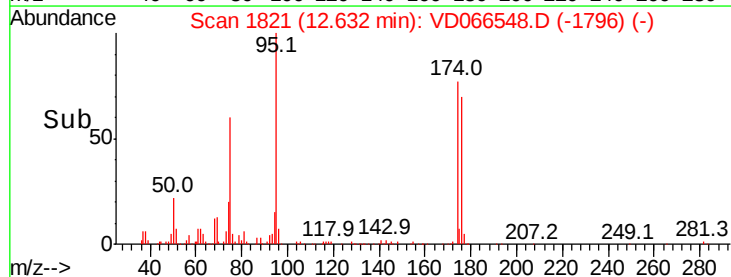
20000

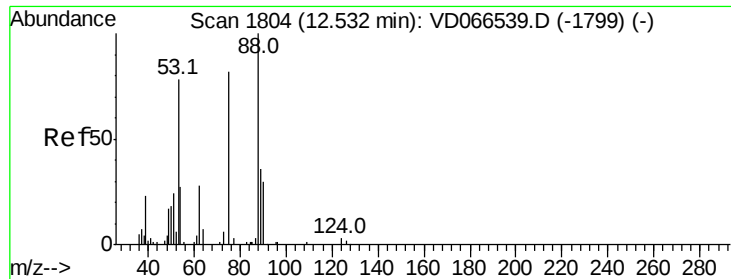
0

12.63

12.55 12.60 12.65 12.70

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 143.624 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066548.D

Acq: 03 Sep 2020 21:51

Instrument :

MSVOA\_D

ClientSampleId :

9-2-TP-1

Tot Ion: 75 Resp: 142899

Ion Ratio Lower Upper

75 100

53 0.2 87.0 130.4#

89 0.1 37.1 55.7#

