

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070120\  
 Data File : VD065905.D  
 Acq On : 01 Jul 2020 14:54  
 Operator : VA/SY  
 Sample : L3160-01RE  
 Misc : 9.63G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MUDDY-DRUM

Quant Time: Jul 02 04:43:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 19:16:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 108378   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 184788   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 156035   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 75674    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 55094    | 48.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.86%  |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 57116    | 50.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.02% |      |
| 50) Toluene-d8            | 10.34  | 98  | 204685   | 47.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.28%  |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 68630    | 48.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.52%  |      |

## Target Compounds

|                                |       |     |         |           |        | Qvalue |
|--------------------------------|-------|-----|---------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.70  | 74  | 1477    | 2.790     | ug/l   | 87     |
| 10) Methyl Iodide              | 4.29  | 142 | 57      | 1.880     | ug/l # | 37     |
| 11) Tert butyl alcohol         | 5.21  | 59  | 82      | Below Cal | #      | 69     |
| 16) Acetone                    | 4.14  | 43  | 5249    | 23.794    | ug/l   | 93     |
| 20) Methylene Chloride         | 4.97  | 84  | 38860   | 31.796    | ug/l   | 93     |
| 25) 2-Butanone                 | 7.21  | 43  | 2829    | 9.610     | ug/l # | 74     |
| 30) Chloroform                 | 7.71  | 83  | 3047    | 1.371     | ug/l   | 96     |
| 31) Cyclohexane                | 7.97  | 56  | 3758    | 1.863     | ug/l # | 4      |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 11616   | 5.970     | ug/l # | 14     |
| 39) Methylcyclohexane          | 9.36  | 83  | 5735    | 2.679     | ug/l # | 81     |
| 40) Benzene                    | 8.35  | 78  | 357421  | 71.497    | ug/l   | 99     |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43  | 2500    | 3.633     | ug/l   | 96     |
| 52) Toluene                    | 10.40 | 92  | 292553  | 90.010    | ug/l   | 97     |
| 55) 1,1,2-Trichloroethane      | 10.77 | 97  | 2268    | 2.578     | ug/l # | 11     |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63  | 876     | 1.830     | ug/l   | 95     |
| 59) 2-Hexanone                 | 10.96 | 43  | 2771    | 5.744     | ug/l # | 26     |
| 67) Ethyl Benzene              | 11.75 | 91  | 1022386 | 177.859   | ug/l   | 96     |
| 68) m/p-Xylenes                | 11.86 | 106 | 2398157 | 1095.755  | ug/l   | 98     |
| 69) o-Xylene                   | 12.18 | 106 | 1031906 | 524.681   | ug/l   | 99     |
| 70) Styrene                    | 12.18 | 104 | 67552   | 19.643    | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.48 | 105 | 84292   | 15.552    | ug/l   | 97     |
| 74) N-amyl acetate             | 12.27 | 43  | 2723    | 2.274     | ug/l # | 58     |
| 76) 1,2,3-Trichloropropane     | 12.76 | 75  | 1732    | 2.616     | ug/l # | 1      |
| 78) n-propylbenzene            | 12.83 | 91  | 593448  | 90.884    | ug/l   | 100    |
| 79) 2-Chlorotoluene            | 12.88 | 91  | 210860  | 58.627    | ug/l # | 42     |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105 | 1994985 | 440.304   | ug/l   | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 1297    | 4.208     | ug/l # | 72     |
| 82) 4-Chlorotoluene            | 12.96 | 91  | 216953  | 56.447    | ug/l # | 41     |
| 83) tert-Butylbenzene          | 13.27 | 119 | 769570  | 201.827   | ug/l # | 60     |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105 | 6205206 | 1390.277  | ug/l   | 99     |
| 85) sec-Butylbenzene           | 13.27 | 105 | 6205052 | 1141.933  | ug/l # | 57     |
| 86) p-Isopropyltoluene         | 13.52 | 119 | 41954   | 8.500     | ug/l # | 47     |
| 89) n-Butylbenzene             | 13.85 | 91  | 93011   | 19.326    | ug/l # | 77     |
| 90) Hexachloroethane           | 14.11 | 117 | 105366  | 104.612   | ug/l # | 15     |

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Sample : L3160-01RE  
Misc : 9.63G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

Quant Time: Jul 02 04:43:42 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062620S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 26 19:16:07 2020  
Response via : Initial Calibration

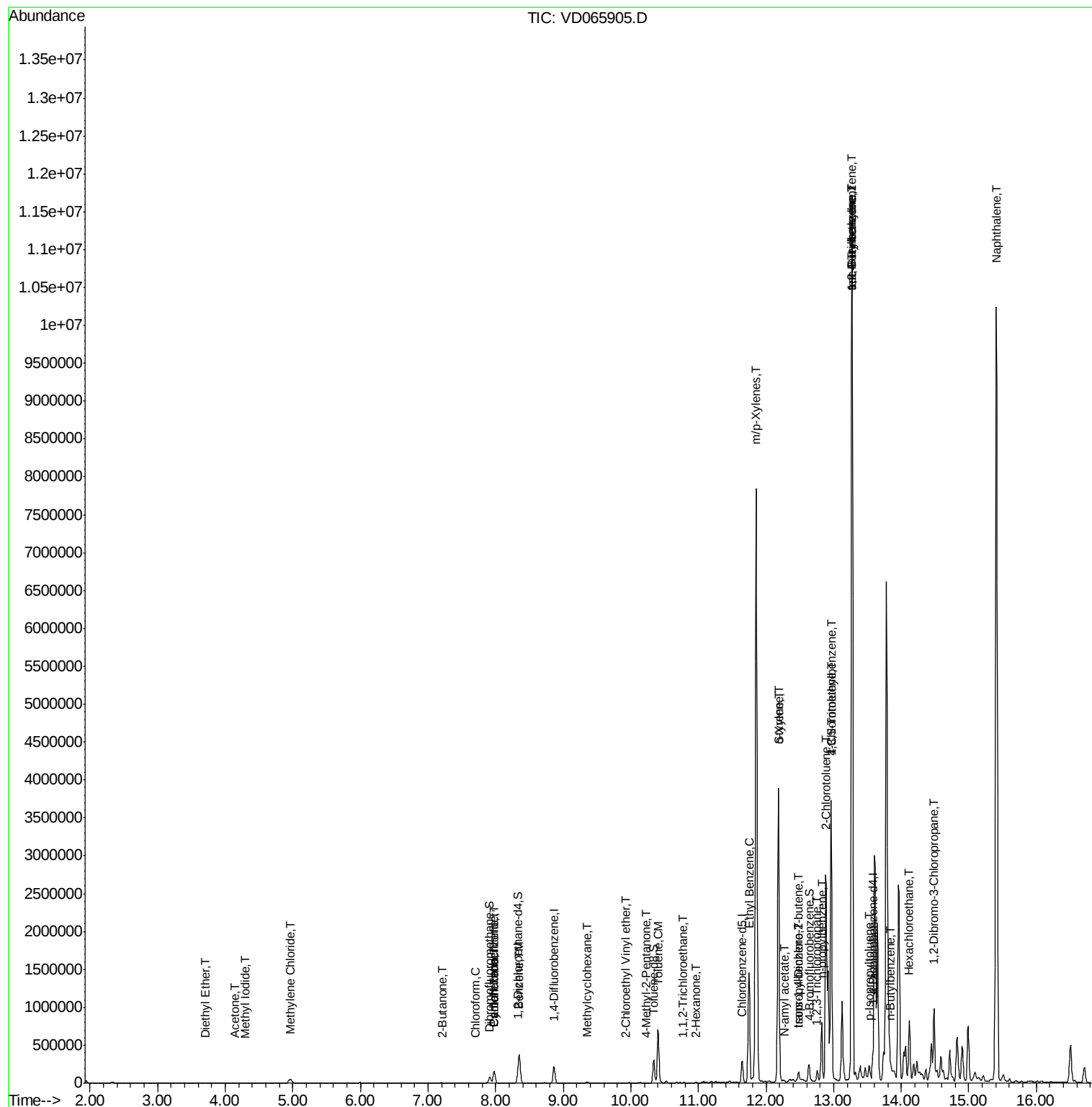
| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 92) 1,2-Dibromo-3-Chloropropan | 14.48 | 75   | 2853     | 20.644   | ug/l # | 5        |
| 95) Naphthalene                | 15.41 | 128  | 8989283  | 3807.783 | ug/l   | 99       |

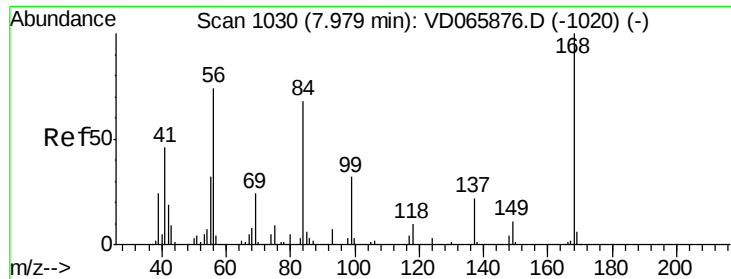
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jun 26 19:16:07 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

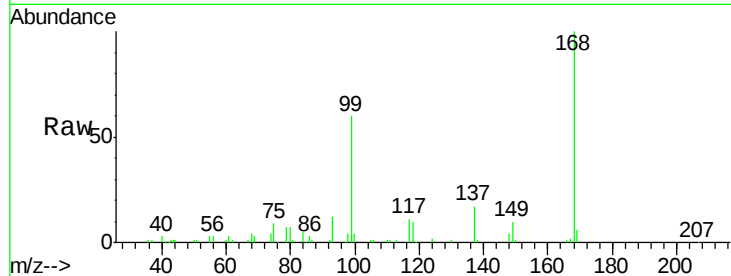
MUDDY-DRUM

Tot Ion:168 Resp: 108378

Ion Ratio Lower Upper

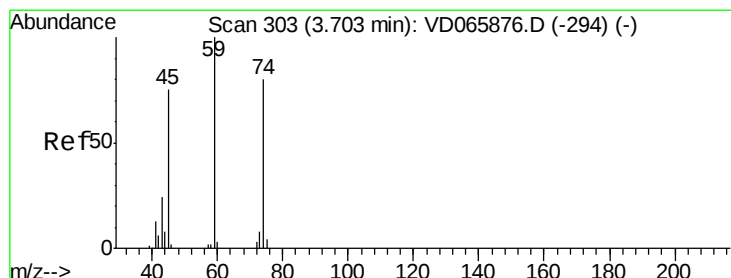
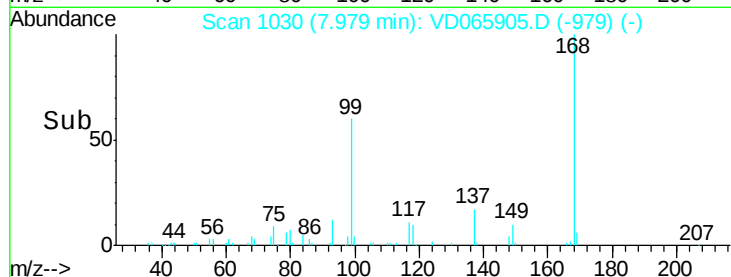
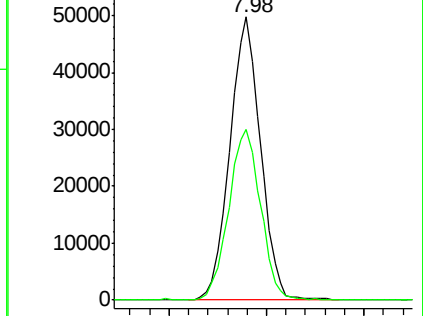
168 100

99 60.1 51.3 76.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#8

Diethyl Ether

Concen: 2.790 ug/l

RT: 3.70 min Scan# 303

Delta R.T. 0.00 min

Lab File: VD065905.D

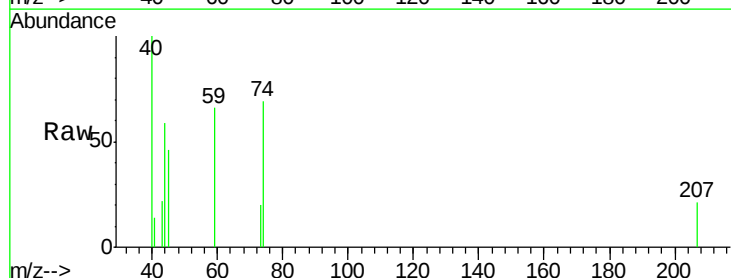
Acq: 01 Jul 2020 14:54

Tgt Ion: 74 Resp: 1477

Ion Ratio Lower Upper

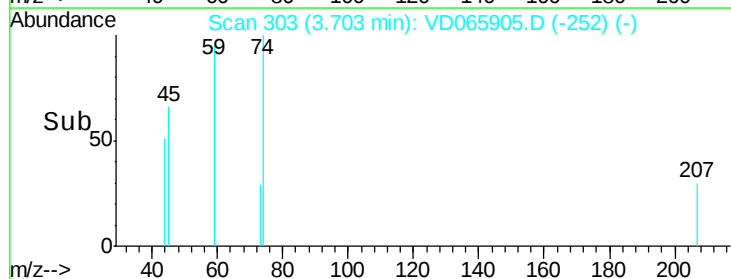
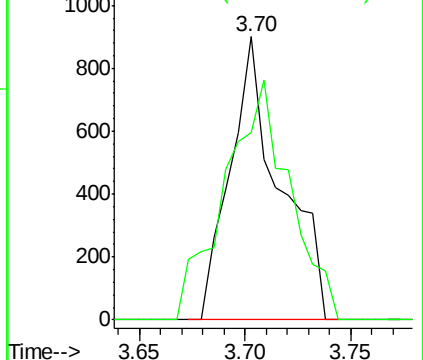
74 100

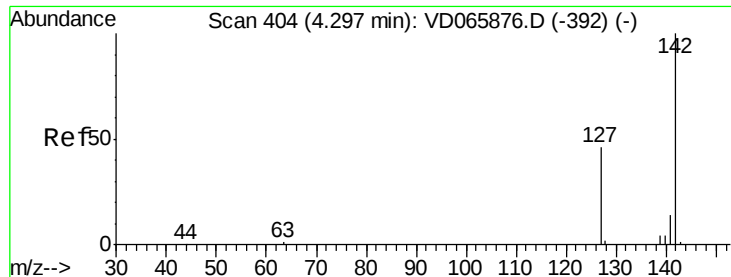
45 110.1 48.6 145.8



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

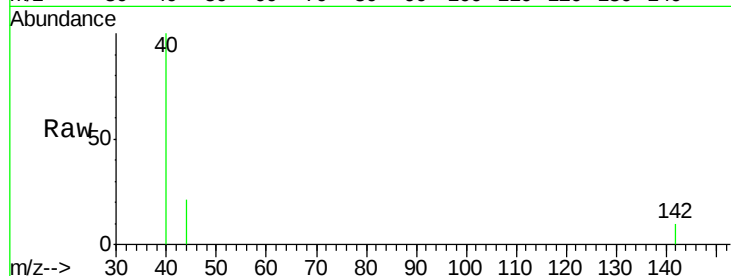




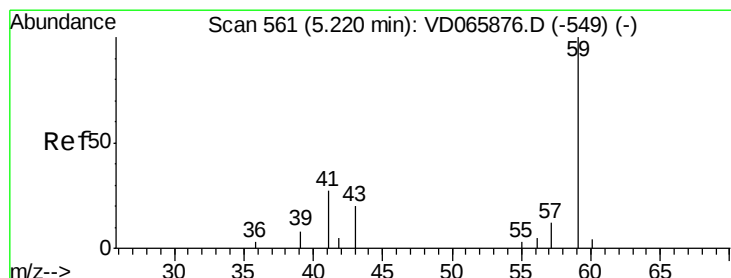
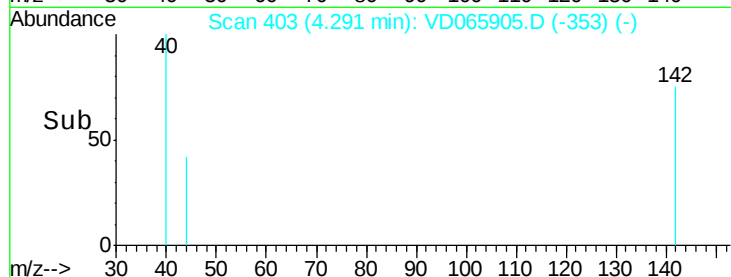
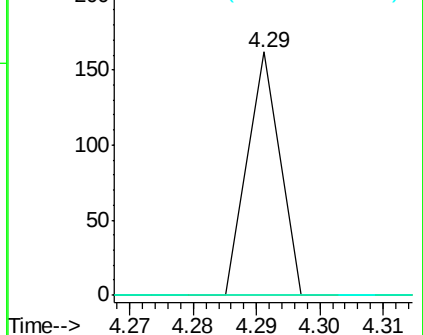
#10  
Methyl Iodide  
Concen: 1.880 ug/l  
RT: 4.29 min Scan# 403  
Delta R.T. -0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

Tot Ion:142 Resp: 57  
Ion Ratio Lower Upper  
142 100  
127 0.0 39.0 58.6#  
141 0.0 11.5 17.3#

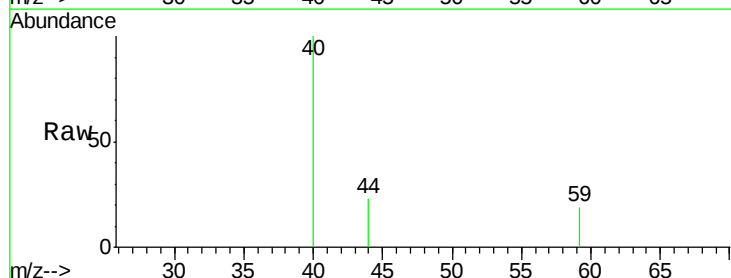


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

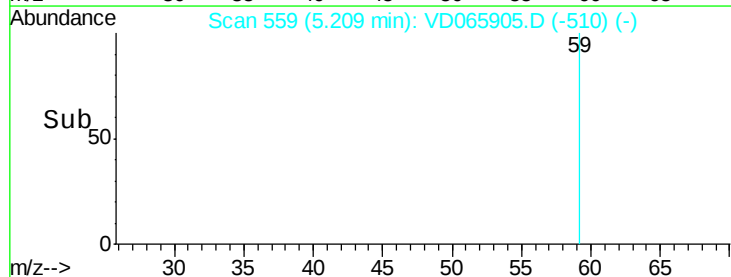
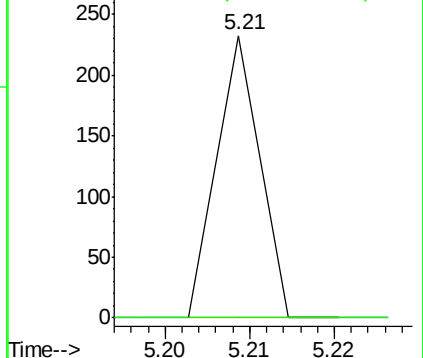


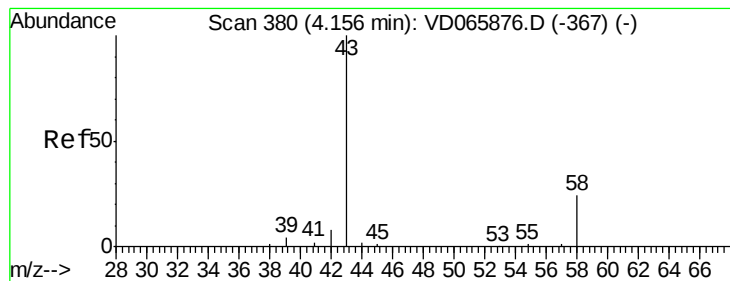
#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.21 min Scan# 559  
Delta R.T. -0.01 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 59 Resp: 82  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.7 14.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC  
Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 23.794 ug/l

RT: 4.14 min Scan# 378

Delta R.T. -0.01 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

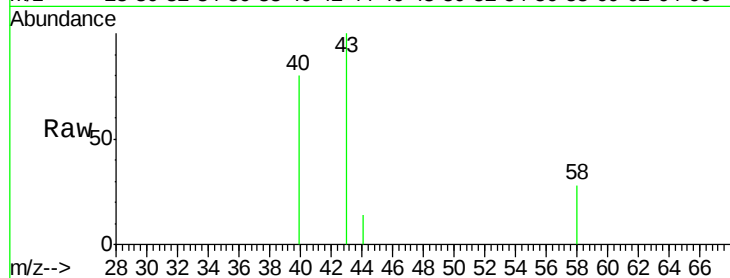
MUDDY-DRUM

Tot Ion: 43 Resp: 5249

Ion Ratio Lower Upper

43 100

58 27.8 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.14

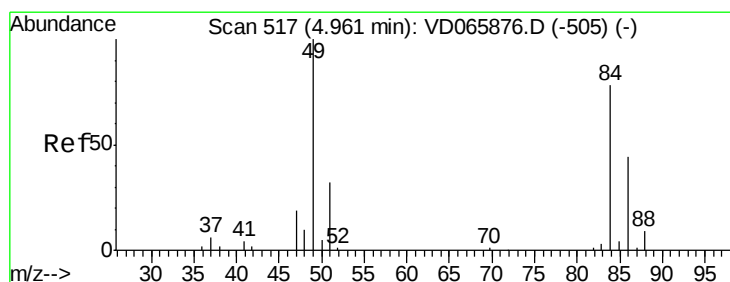
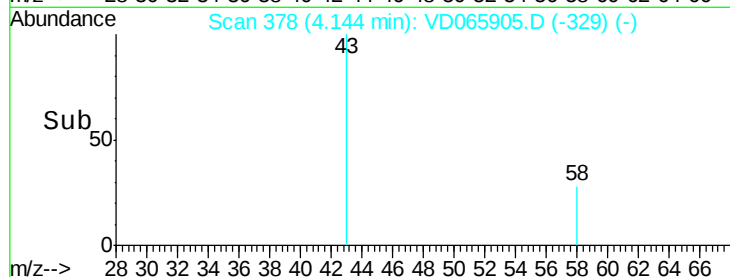
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 31.796 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Tgt Ion: 84 Resp: 38860

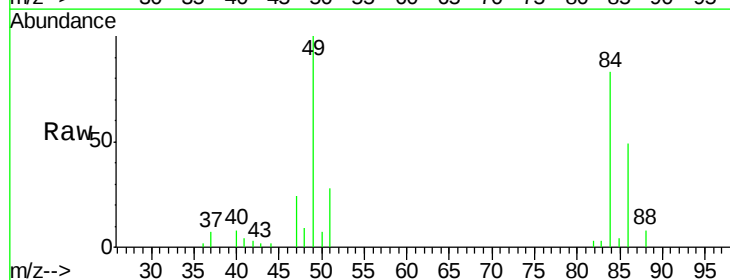
Ion Ratio Lower Upper

84 100

49 120.5 103.0 154.6

51 33.3 32.7 49.1

86 58.8 44.9 67.3



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

25000

20000

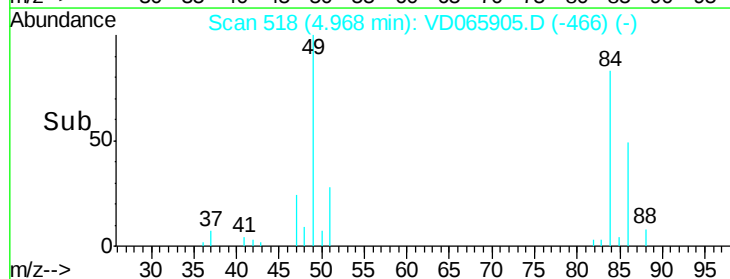
15000

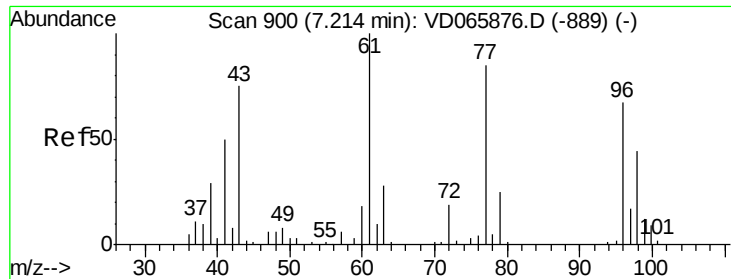
10000

5000

0

Time-->

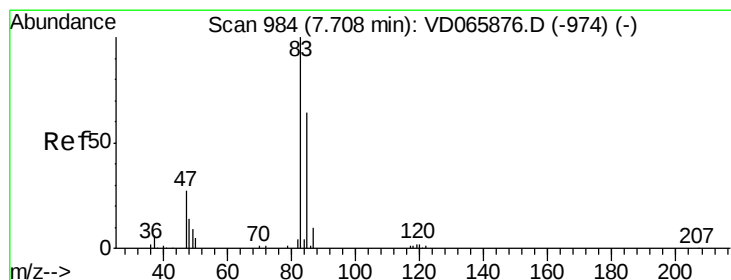
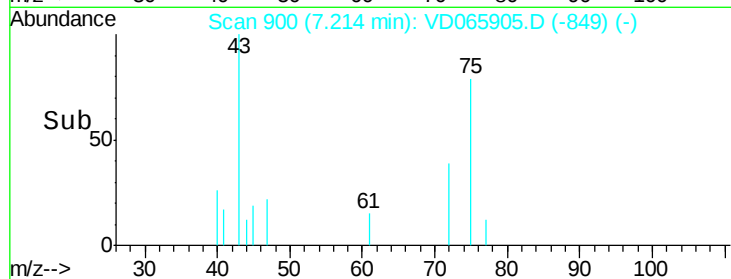
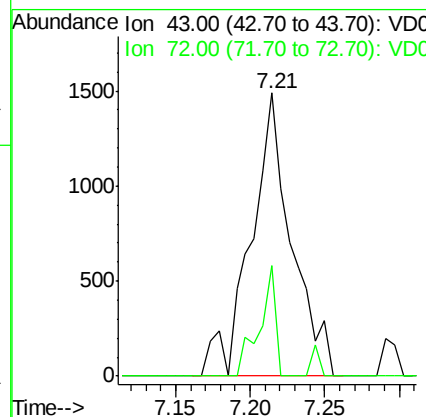
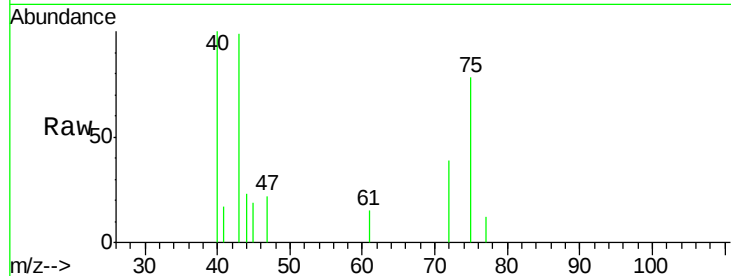




#25  
 2-Butanone  
 Concen: 9.610 ug/l  
 RT: 7.21 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

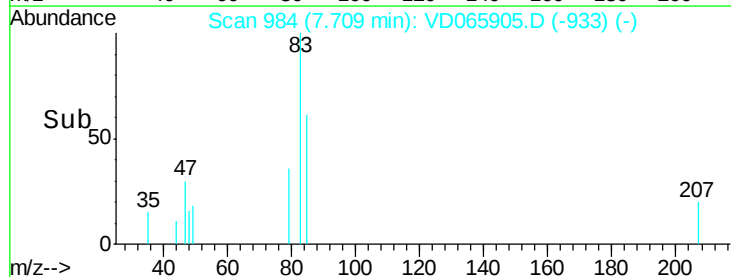
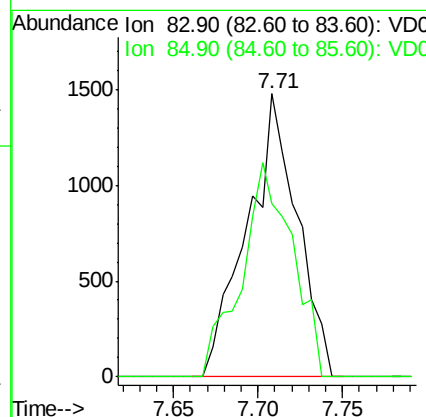
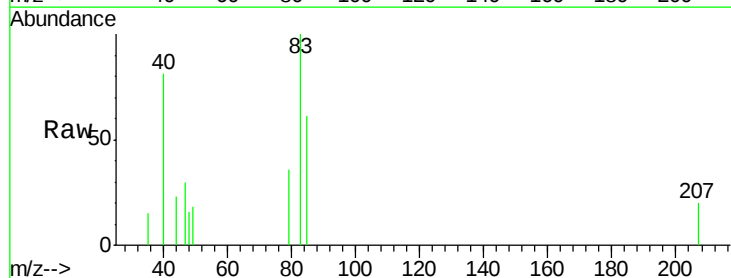
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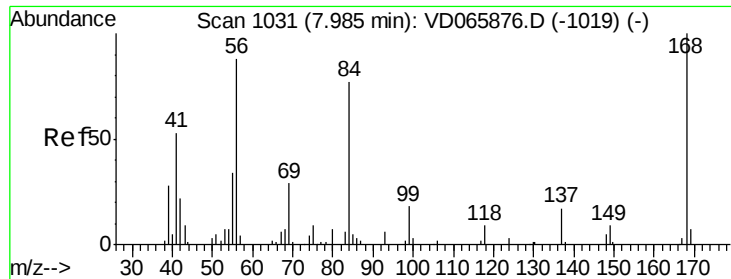
Tot Ion: 43 Resp: 2829  
 Ion Ratio Lower Upper  
 43 100  
 72 39.2 20.6 31.0#



#30  
 Chloroform  
 Concen: 1.371 ug/l  
 RT: 7.71 min Scan# 984  
 Delta R.T. 0.00 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

Tgt Ion: 83 Resp: 3047  
 Ion Ratio Lower Upper  
 83 100  
 85 61.2 51.2 76.8

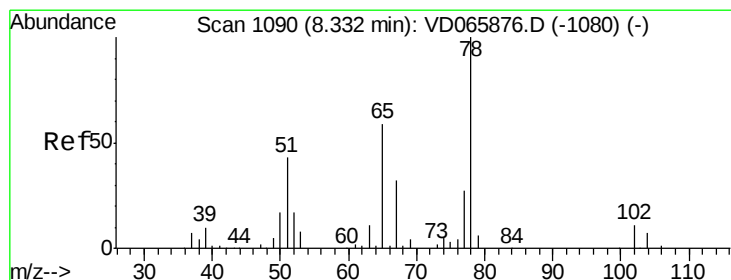
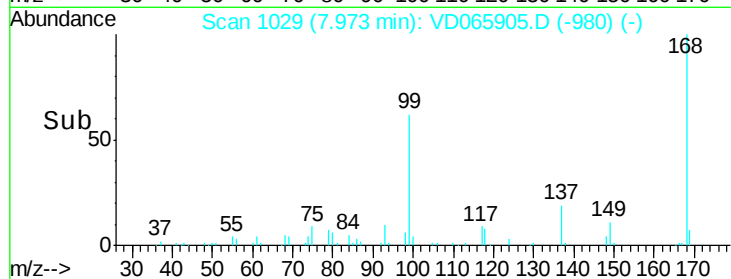
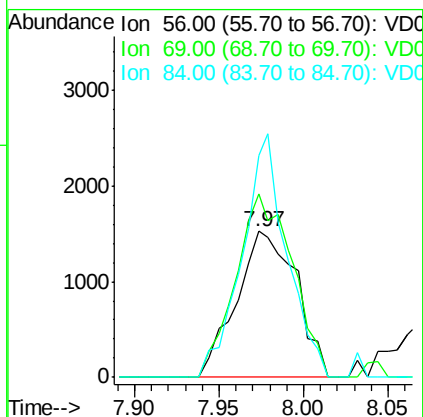
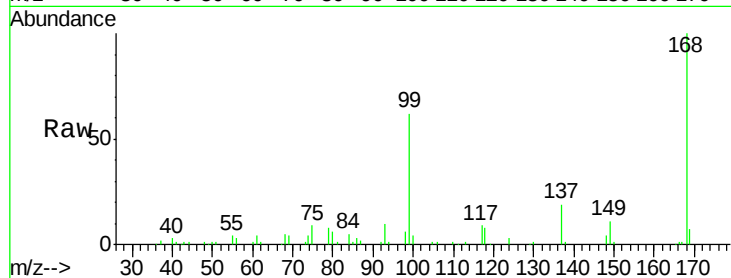




#31  
Cyclohexane  
Concen: 1.863 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

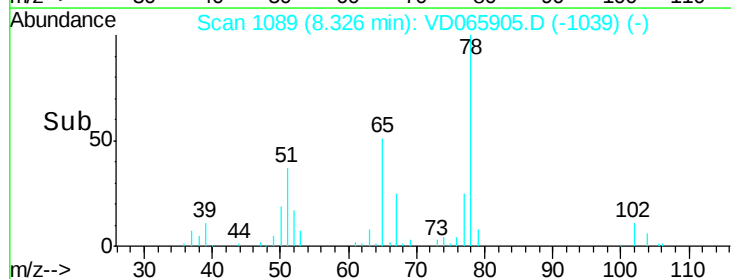
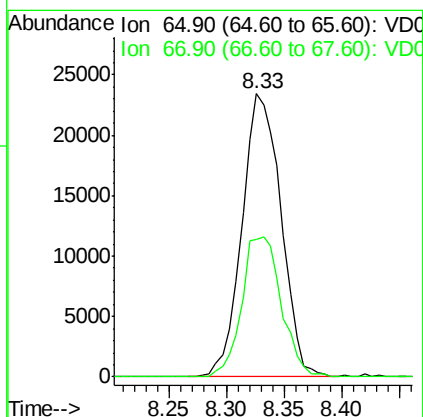
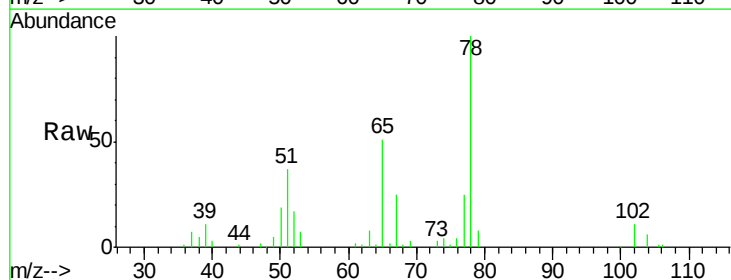
Instrument :  
MSVOA\_D  
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MUDDY-DRUM

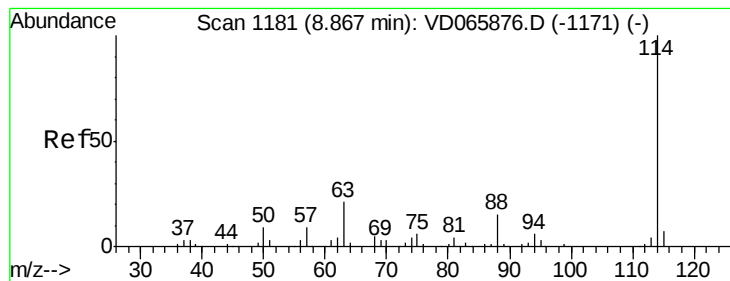
Tot Ion: 56 Resp: 3758  
Ion Ratio Lower Upper  
56 100  
69 126.1 26.2 39.4#  
84 152.5 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 48.931 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.01 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 65 Resp: 55094  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

MUDDY-DRUM

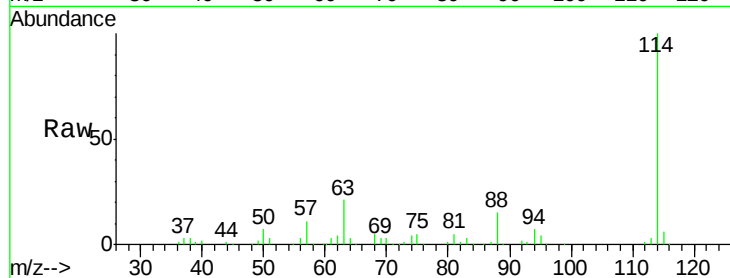
Tot Ion:114 Resp: 184788

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

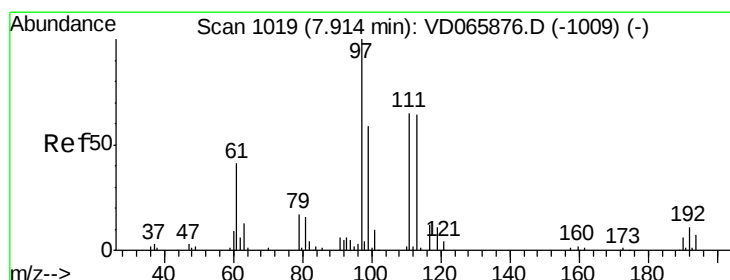
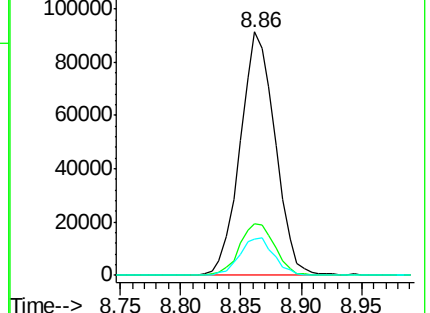
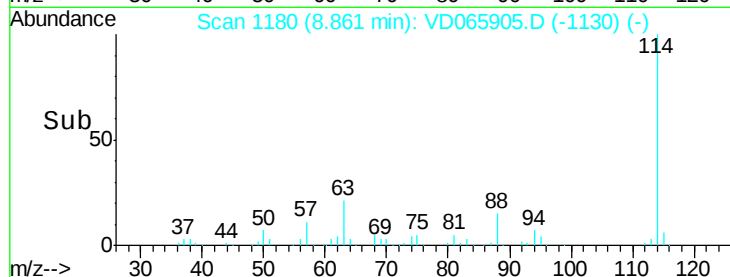
88 14.8 0.0 29.0



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: 50.006 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

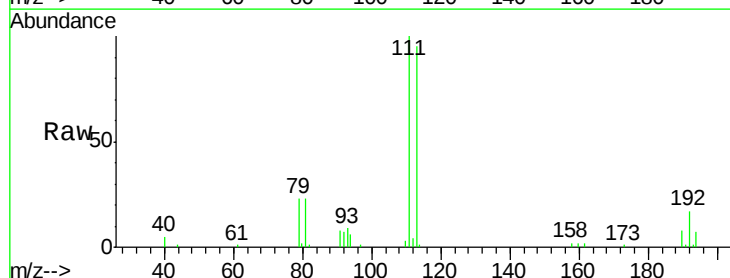
Tgt Ion:113 Resp: 57116

Ion Ratio Lower Upper

113 100

111 100.3 81.0 121.6

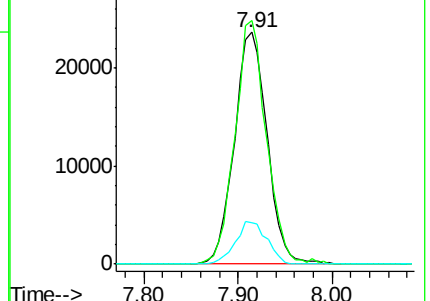
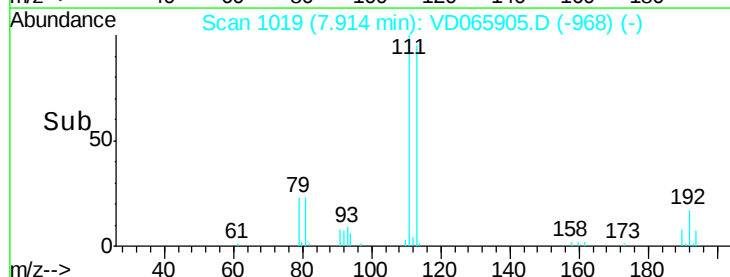
192 17.5 15.2 22.8

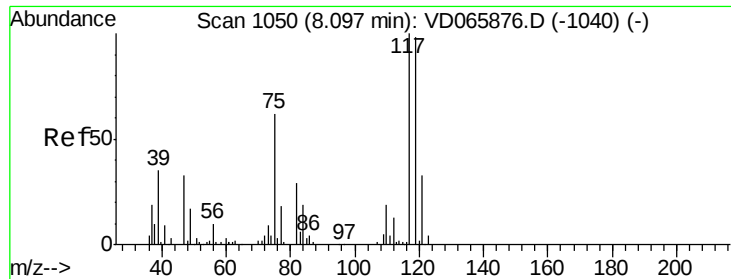


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.970 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

MUDDY-DRUM

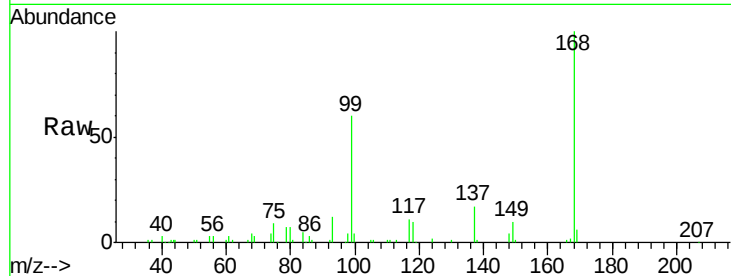
Tot Ion:117 Resp: 11616

Ion Ratio Lower Upper

117 100

119 4.0 78.6 117.8#

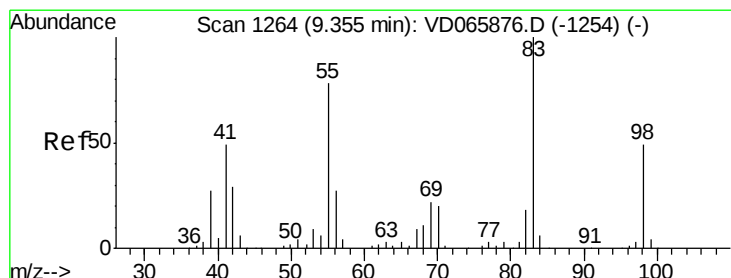
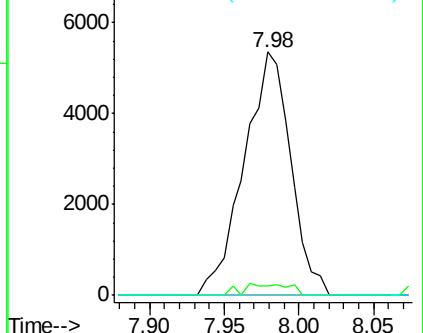
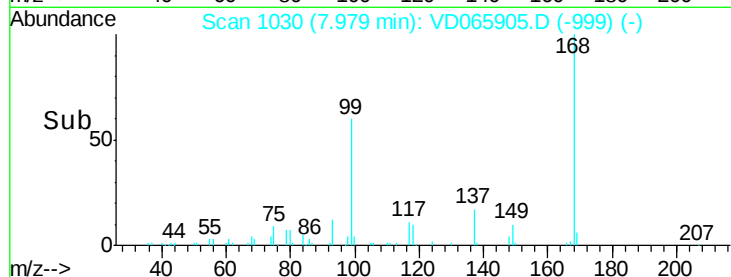
121 0.0 26.5 39.7#



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



#39

Methylcyclohexane

Concen: 2.679 ug/l

RT: 9.36 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

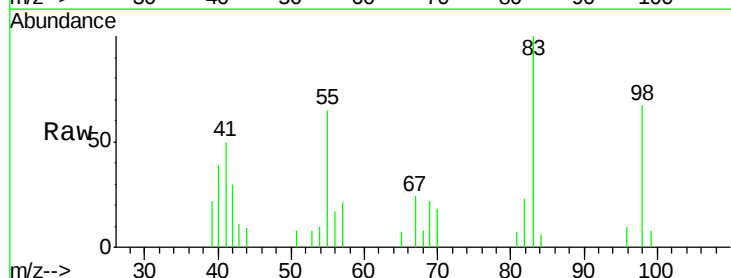
Tgt Ion: 83 Resp: 5735

Ion Ratio Lower Upper

83 100

55 64.9 62.2 93.4

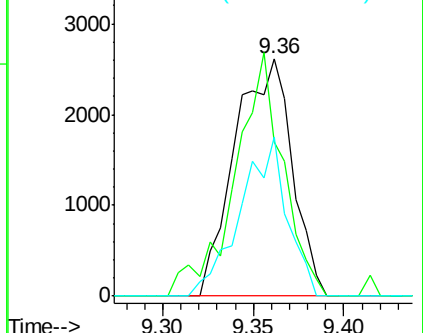
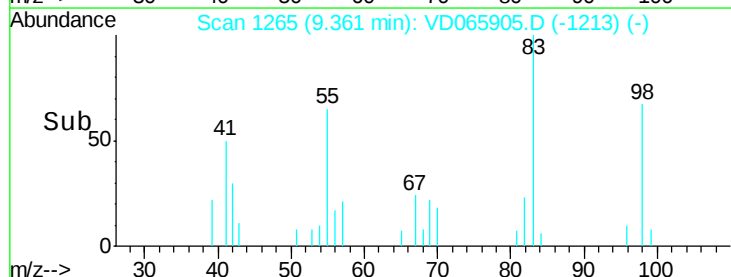
98 66.9 39.6 59.4#

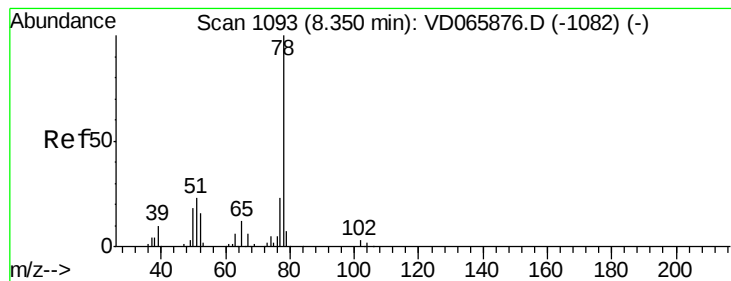


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 71.497 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

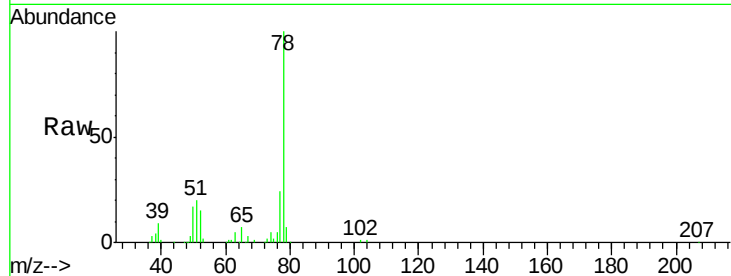
MUDDY-DRUM

Tot Ion: 78 Resp: 357421

Ion Ratio Lower Upper

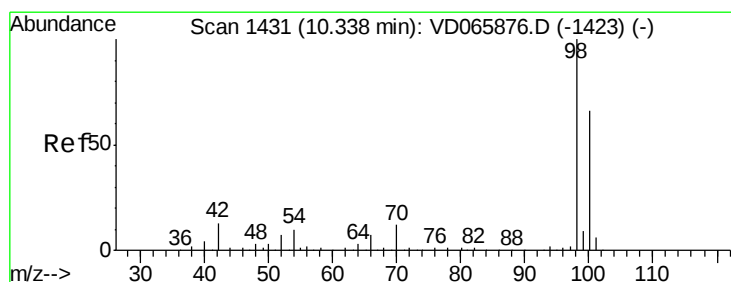
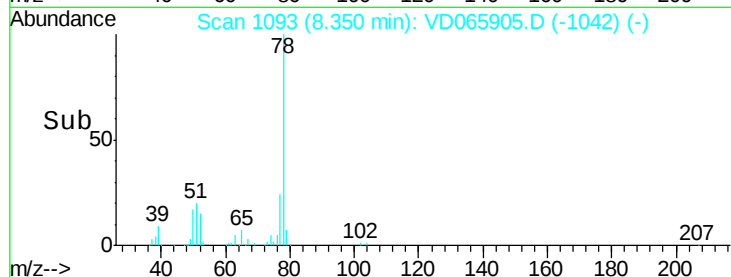
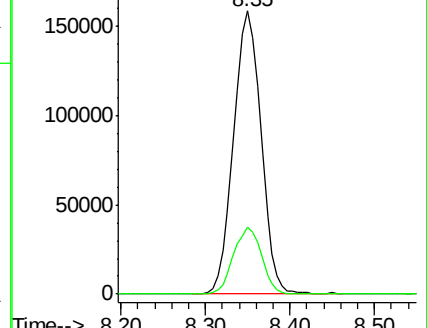
78 100

77 23.8 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#50

Toluene-d8

Concen: 47.640 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD065905.D

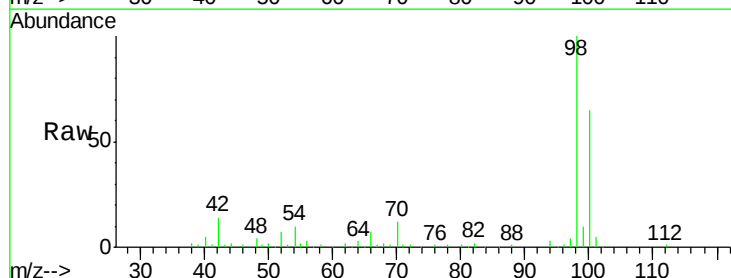
Acq: 01 Jul 2020 14:54

Tgt Ion: 98 Resp: 204685

Ion Ratio Lower Upper

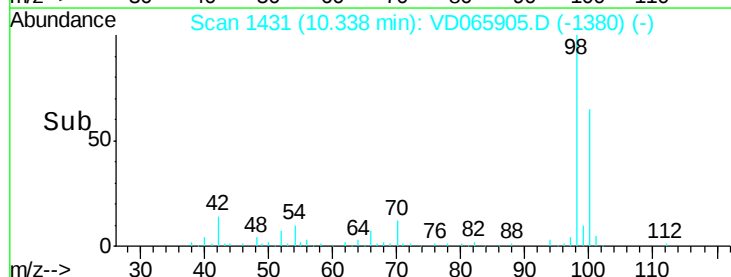
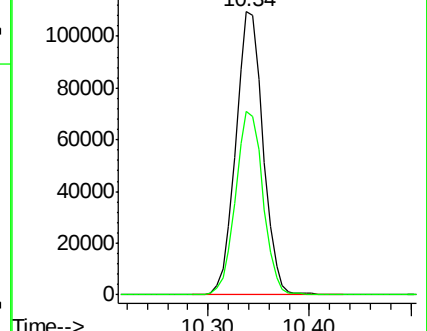
98 100

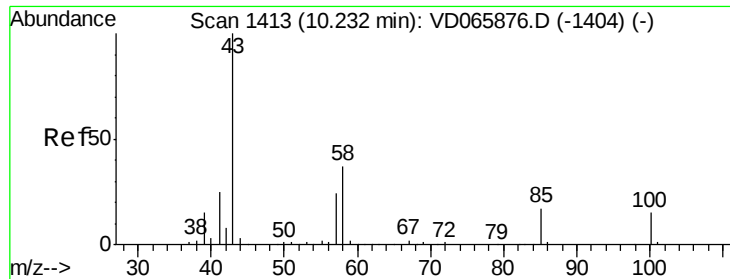
100 65.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 3.633 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

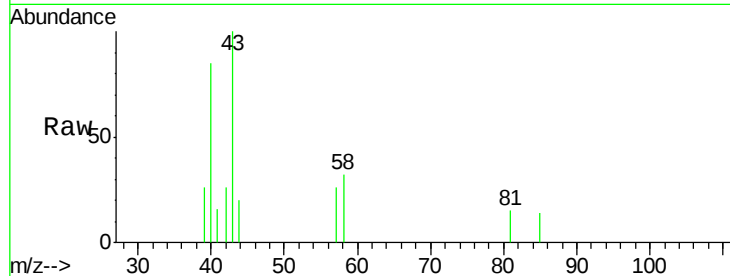
MUDDY-DRUM

Tot Ion: 43 Resp: 2500

Ion Ratio Lower Upper

43 100

58 39.1 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

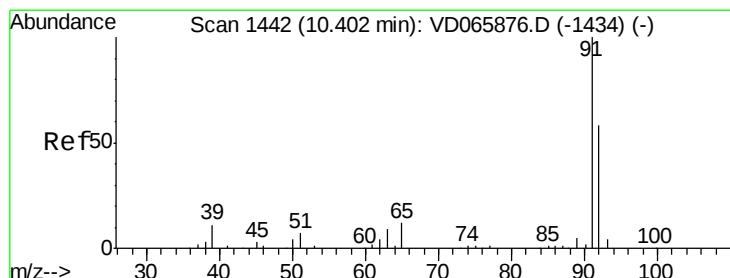
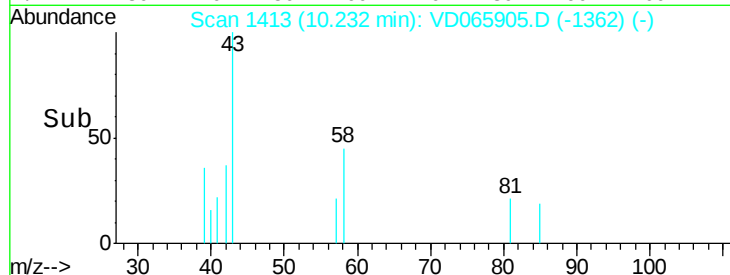
1500

1000

500

0

Time-->



#52

Toluene

Concen: 90.010 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD065905.D

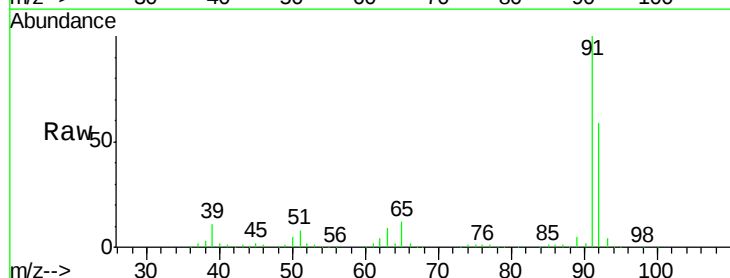
Acq: 01 Jul 2020 14:54

Tgt Ion: 92 Resp: 292553

Ion Ratio Lower Upper

92 100

91 172.4 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

300000

250000

200000

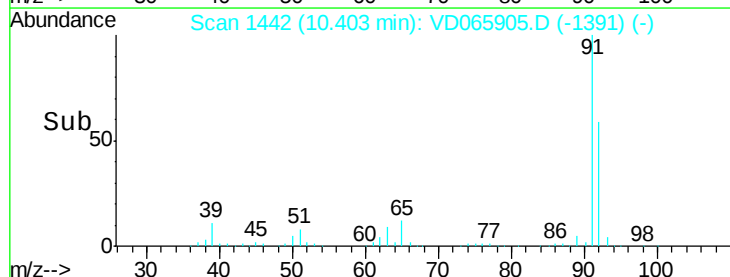
150000

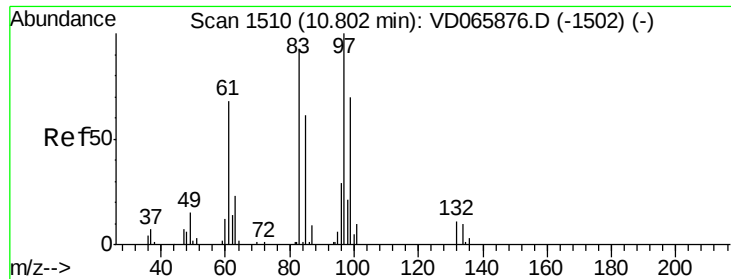
100000

50000

0

Time-->

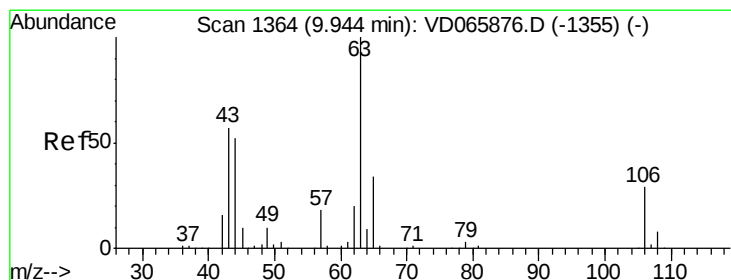
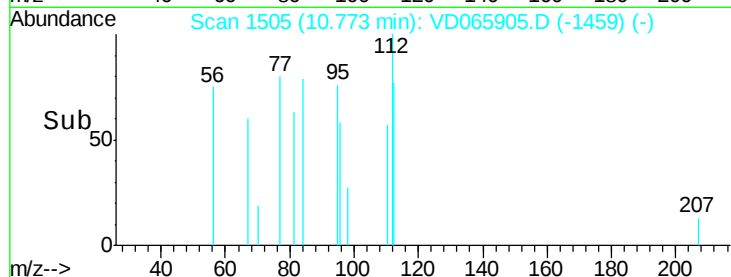
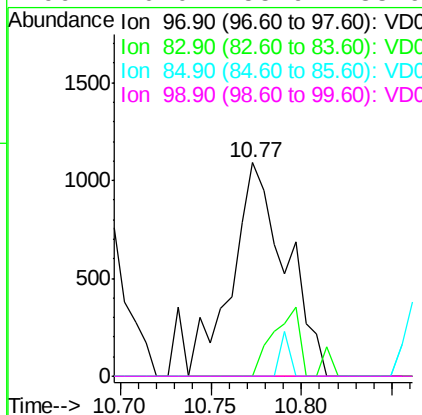
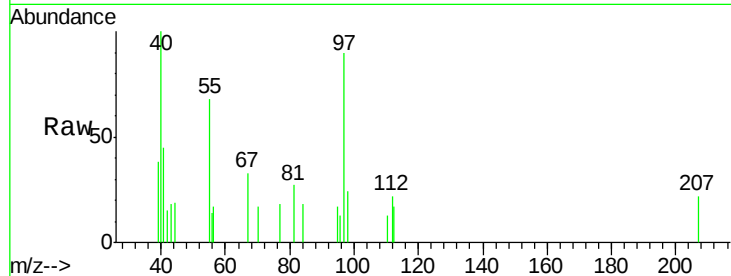




#55  
 1,1,2-Trichloroethane  
 Concen: 2.578 ug/l  
 RT: 10.77 min Scan# 1505  
 Delta R.T. -0.03 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

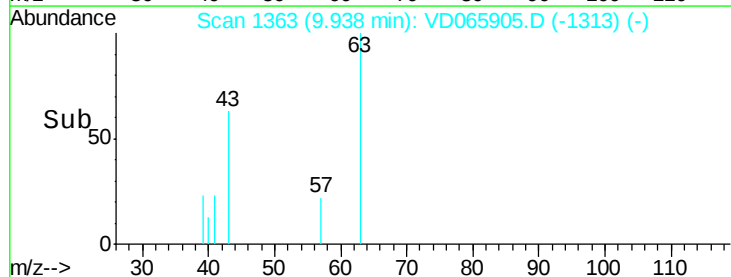
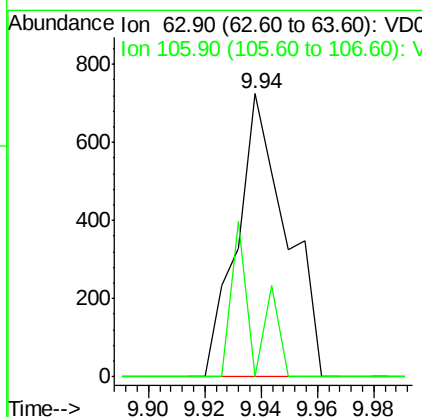
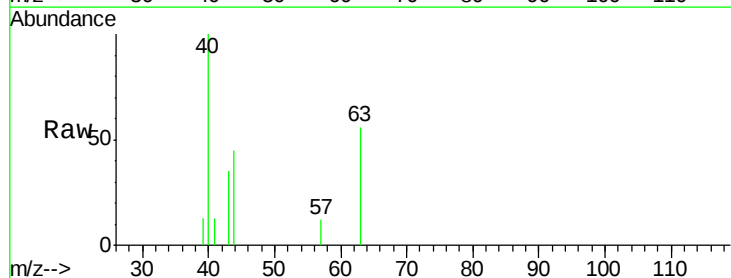
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MUDDY-DRUM

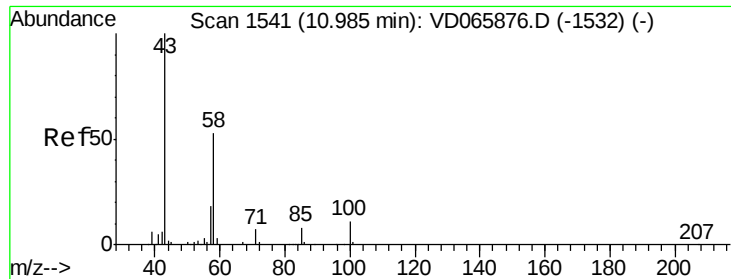
Tot Ion: 97 Resp: 2268  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 74.2 111.4#  
 85 0.0 48.8 73.2#  
 99 0.0 55.9 83.9#



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 1.830 ug/l  
 RT: 9.94 min Scan# 1363  
 Delta R.T. -0.01 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

Tgt Ion: 63 Resp: 876  
 Ion Ratio Lower Upper  
 63 100  
 106 25.5 22.6 34.0

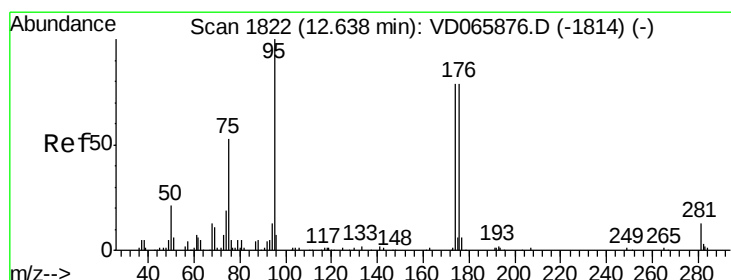
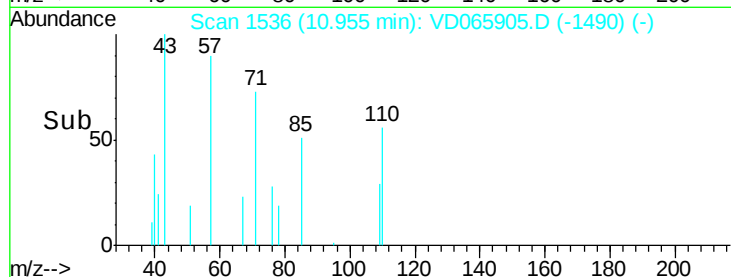
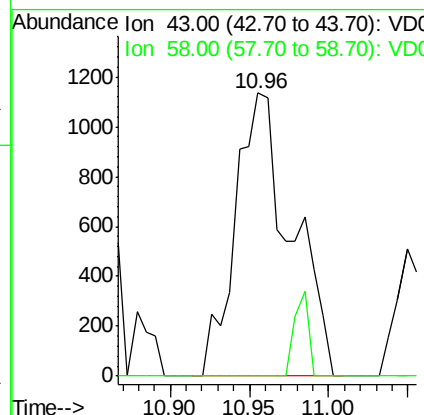
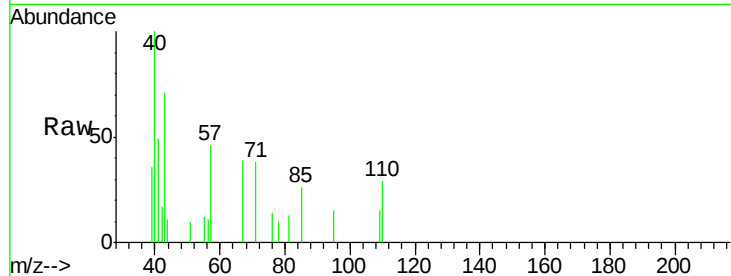




#59  
2-Hexanone  
Concen: 5.744 ug/l  
RT: 10.96 min Scan# 1536  
Delta R.T. -0.03 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

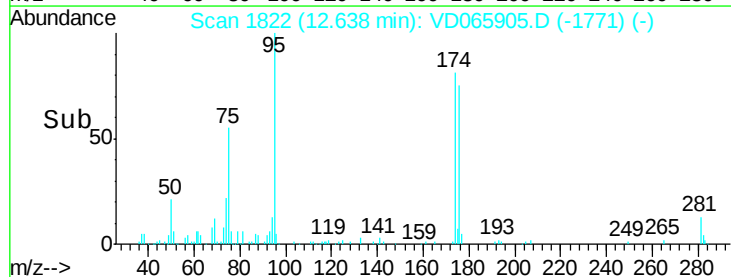
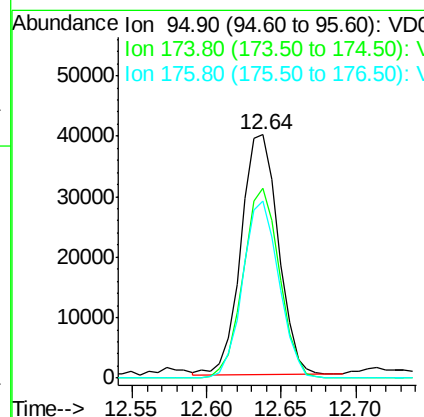
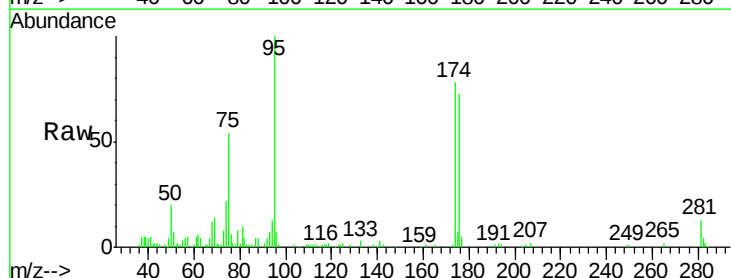
Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

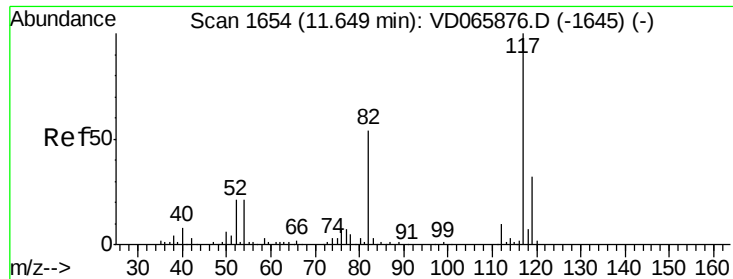
Tot Ion: 43 Resp: 2771  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 48.759 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 95 Resp: 68630  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 158.4  
176 71.8 0.0 156.0

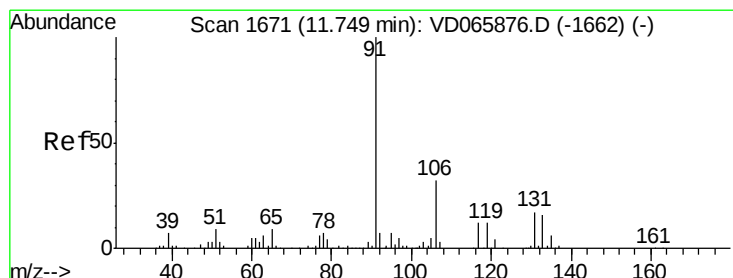
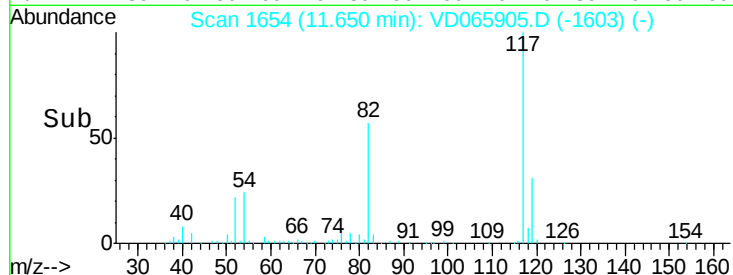
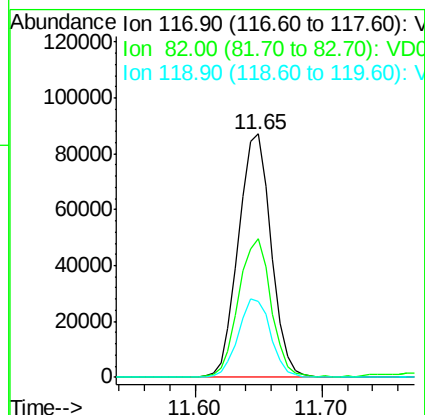
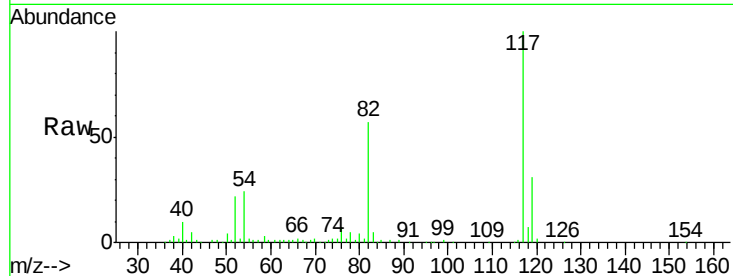




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

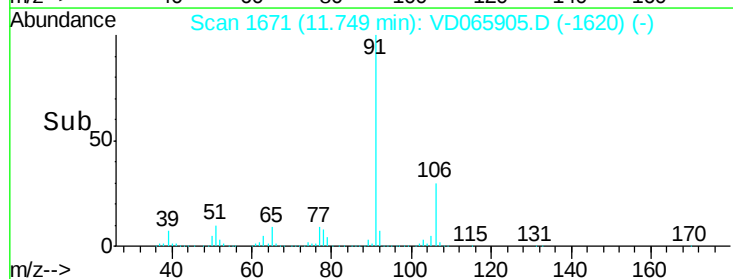
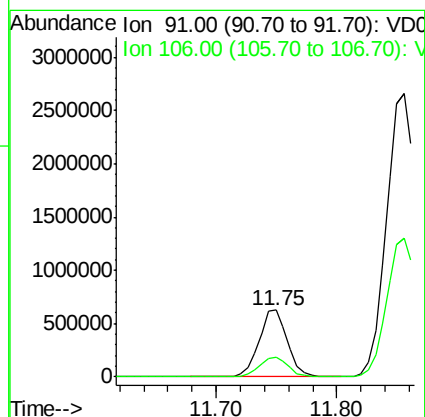
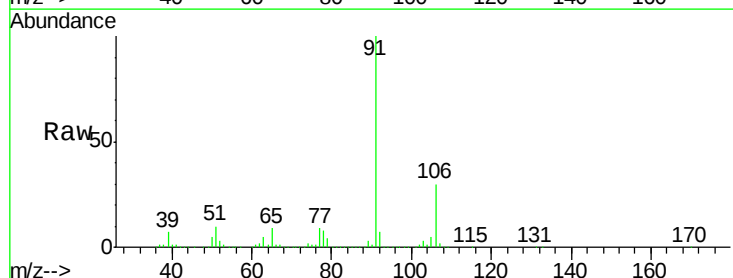
Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

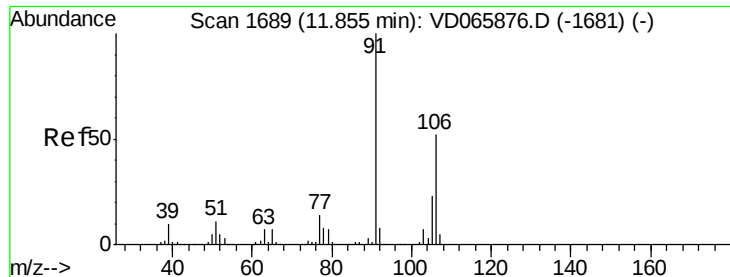
Tot Ion:117 Resp: 156035  
Ion Ratio Lower Upper  
117 100  
82 57.2 43.6 65.4  
119 31.0 25.9 38.9



#67  
Ethyl Benzene  
Concen: 177.859 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 91 Resp: 1022386  
Ion Ratio Lower Upper  
91 100  
106 29.6 25.3 37.9





#68

m/p-Xylenes

Concen: 1095.755 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

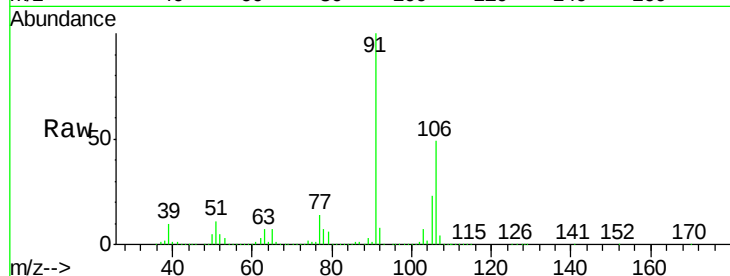
MUDDY-DRUM

Tot Ion:106 Resp: 2398157

Ion Ratio Lower Upper

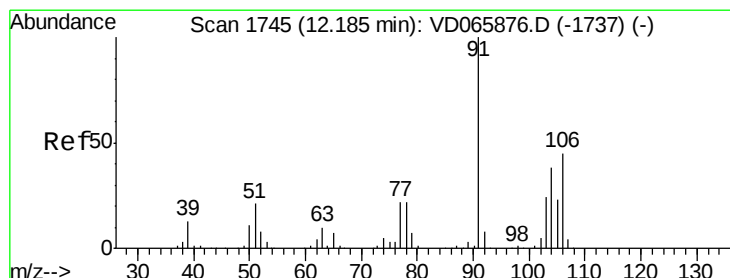
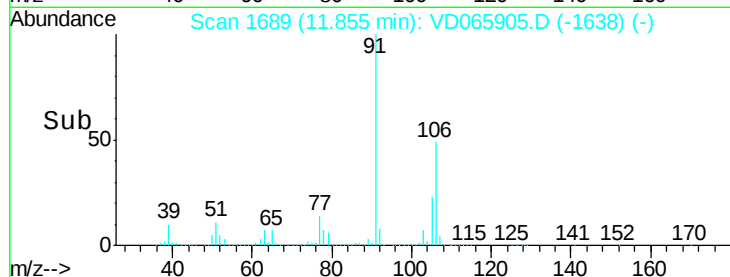
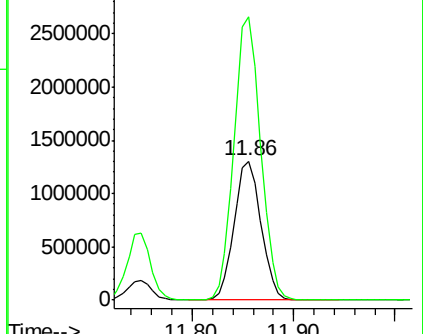
106 100

91 202.9 159.5 239.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 524.681 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VD065905.D

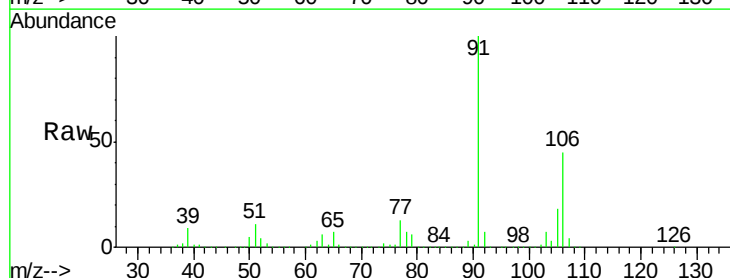
Acq: 01 Jul 2020 14:54

Tgt Ion:106 Resp: 1031906

Ion Ratio Lower Upper

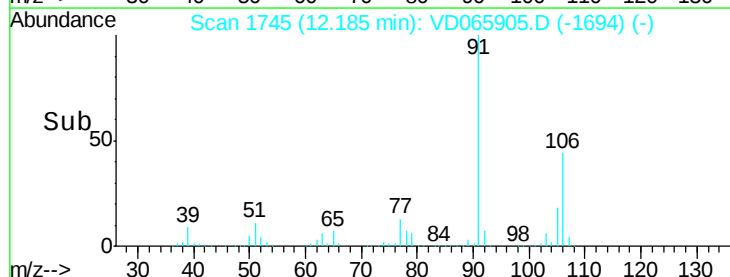
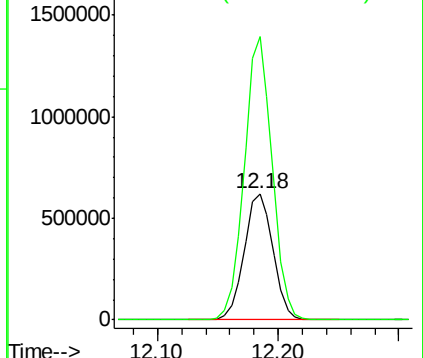
106 100

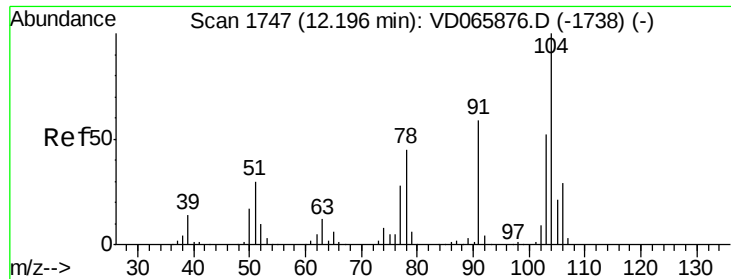
91 216.8 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC

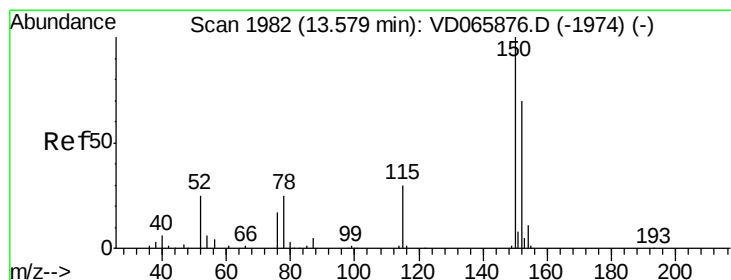
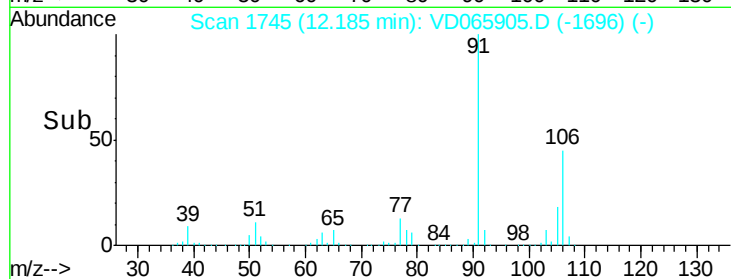
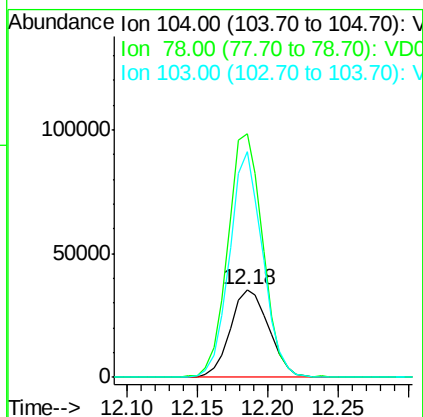
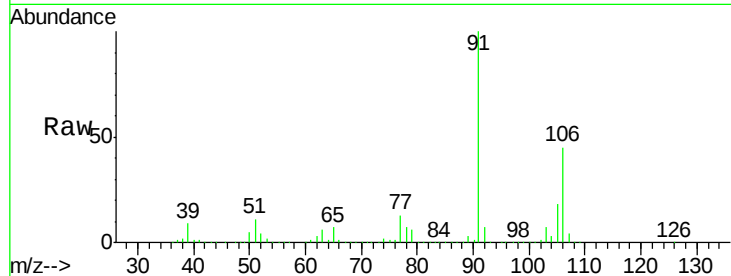




#70  
Stvrene  
Concen: 19.643 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. -0.01 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

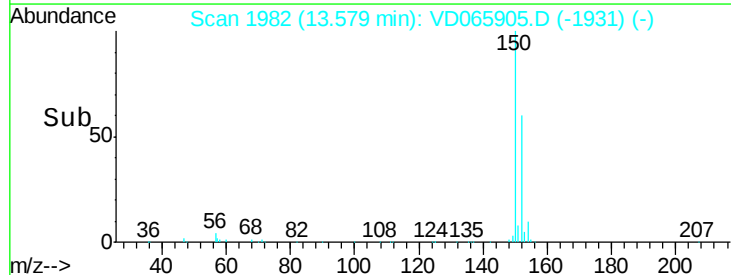
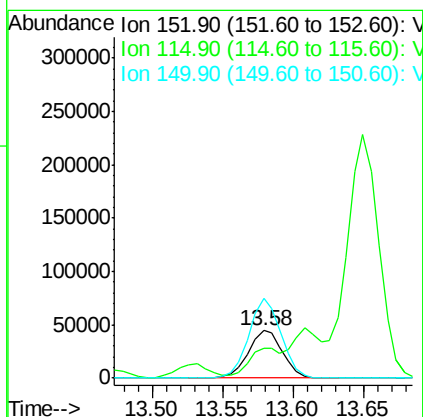
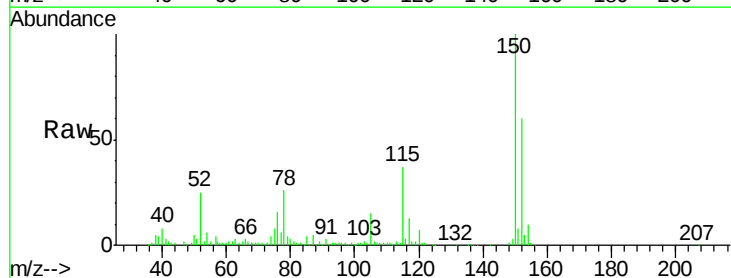
Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

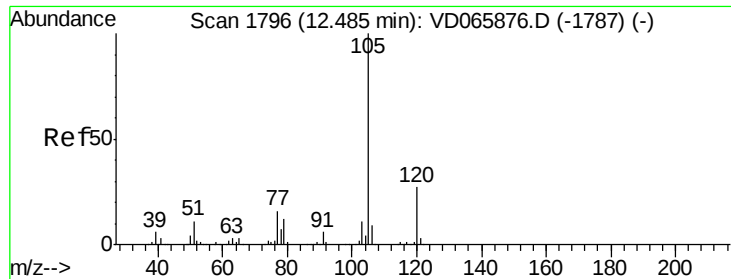
Tot Ion:104 Resp: 67552  
Ion Ratio Lower Upper  
104 100  
78 250.8 39.8 59.6#  
103 221.1 44.6 66.8#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion:152 Resp: 75674  
Ion Ratio Lower Upper  
152 100  
115 48.8 29.7 89.1  
150 158.2 0.0 346.2





#73

Isopropylbenzene

Concen: 15.552 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

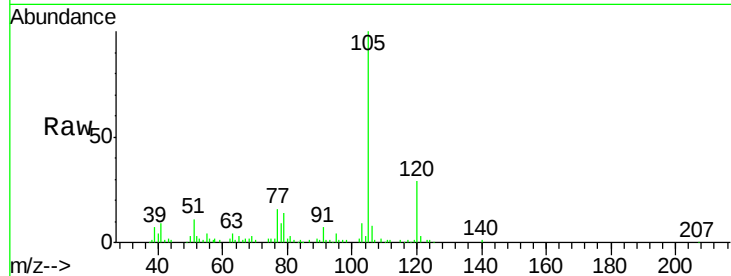
MUDDY-DRUM

Tot Ion:105 Resp: 84292

Ion Ratio Lower Upper

105 100

120 27.8 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

50000

40000

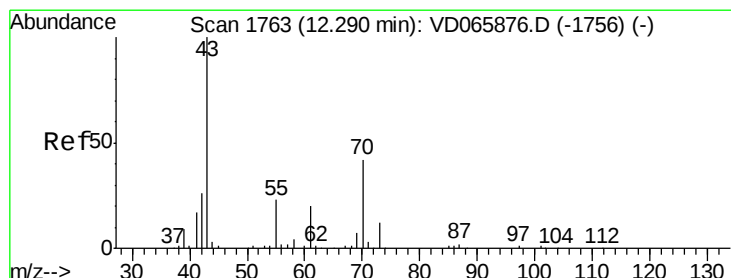
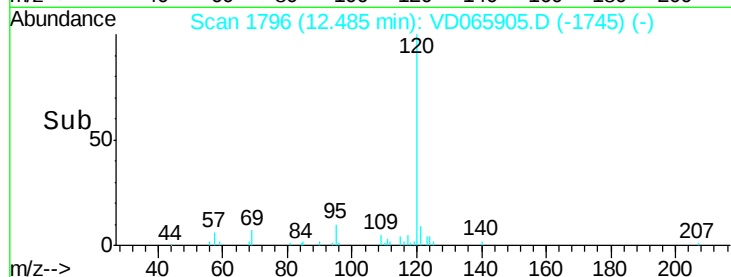
30000

20000

10000

0

Time--> 12.40 12.50 12.60



#74

N-ethyl acetate

Concen: 2.274 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Tgt Ion: 43 Resp: 2723

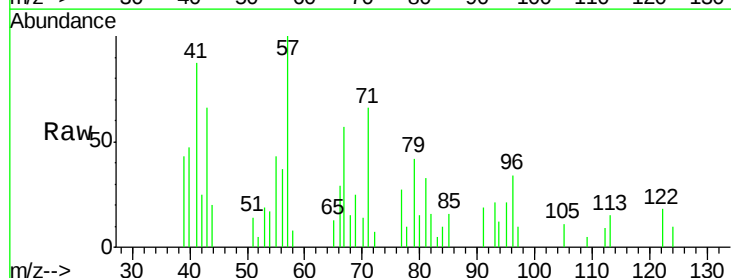
Ion Ratio Lower Upper

43 100

70 63.2 32.5 48.7#

55 0.0 18.7 28.1#

61 0.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

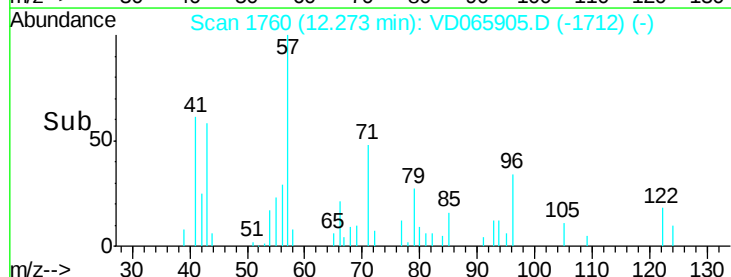
Ion 61.00 (60.70 to 61.70): VDC

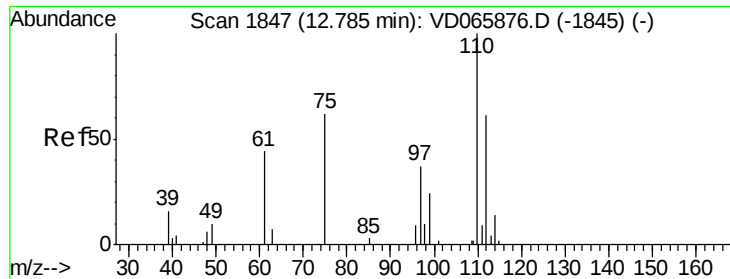
10000

5000

0

Time--> 12.20 12.25 12.30

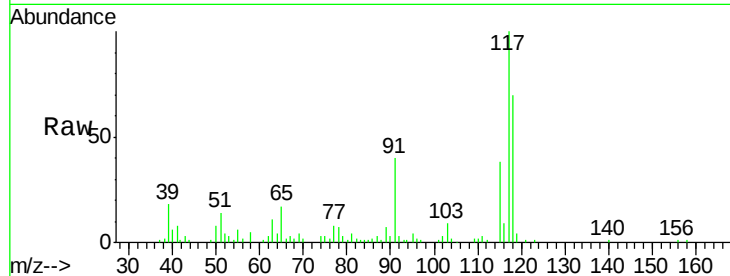




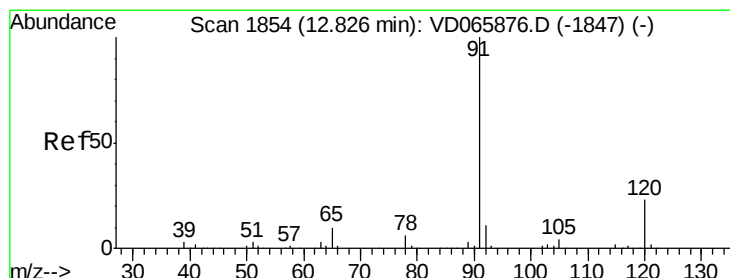
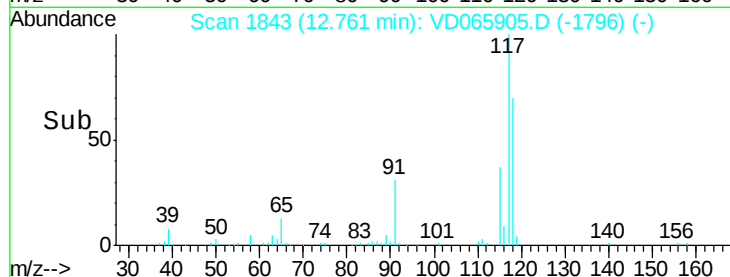
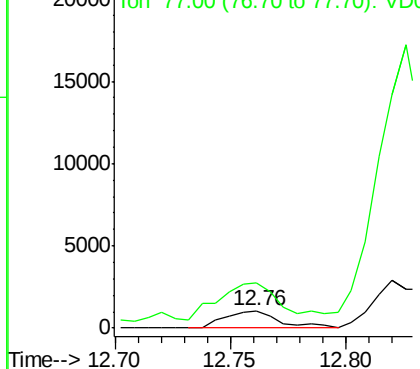
#76  
1,2,3-Trichloropropane  
Concen: 2.616 ug/l  
RT: 12.76 min Scan# 1843  
Delta R.T. -0.02 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

Tot Ion: 75 Resp: 1732  
Ion Ratio Lower Upper  
75 100  
77 0.0 168.5 505.5#

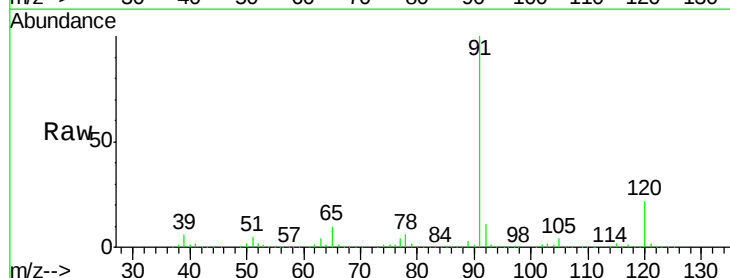


Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 77.00 (76.70 to 77.70): VDC

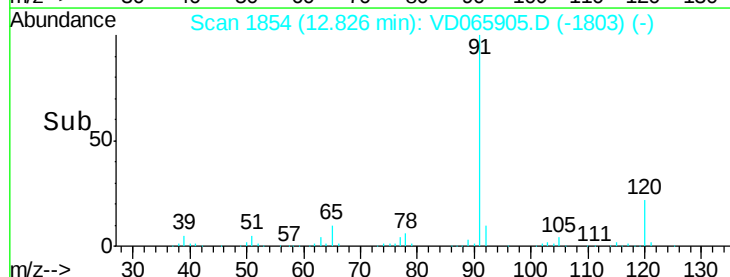
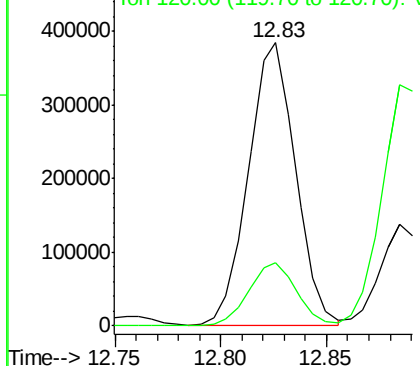


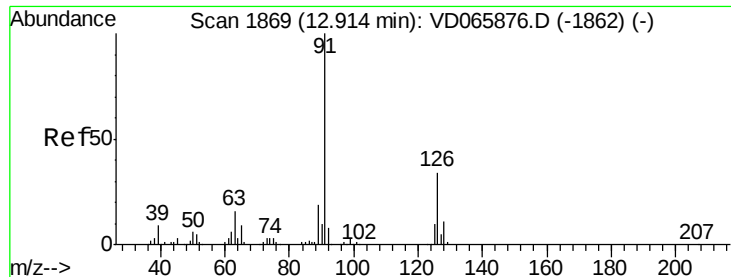
#78  
n-propylbenzene  
Concen: 90.884 ug/l  
RT: 12.83 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 91 Resp: 593448  
Ion Ratio Lower Upper  
91 100  
120 22.9 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 58.627 ug/l

RT: 12.88 min Scan# 1864

Delta R.T. -0.03 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

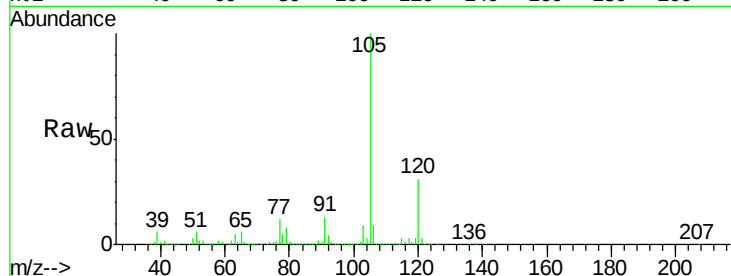
MUDDY-DRUM

Tot Ion: 91 Resp: 210860

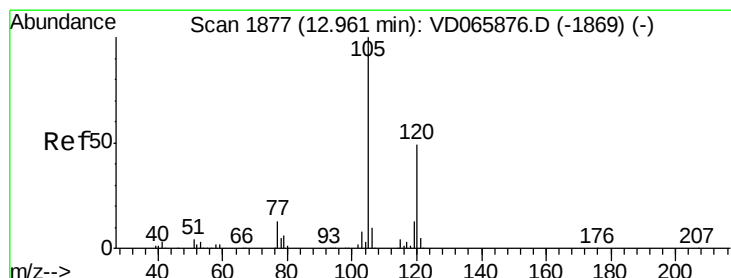
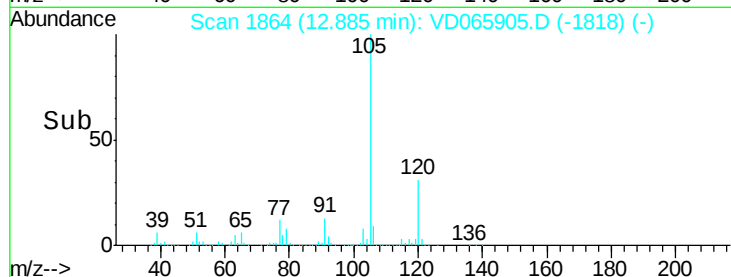
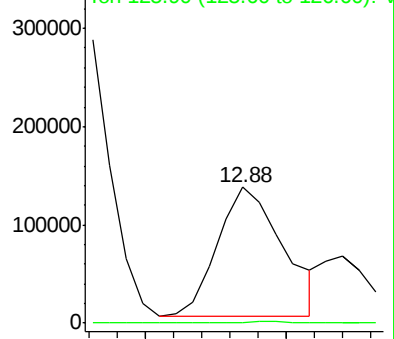
Ion Ratio Lower Upper

91 100

126 1.5 17.5 52.5#



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 440.304 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD065905.D

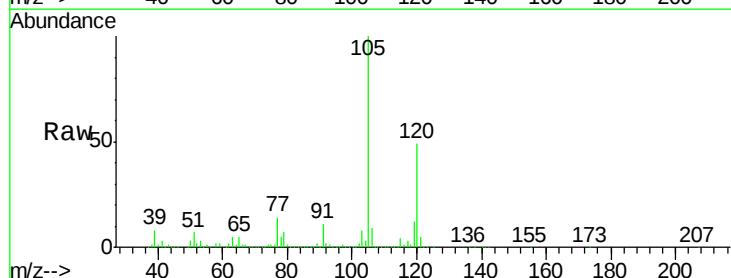
Acq: 01 Jul 2020 14:54

Tgt Ion:105 Resp: 1994985

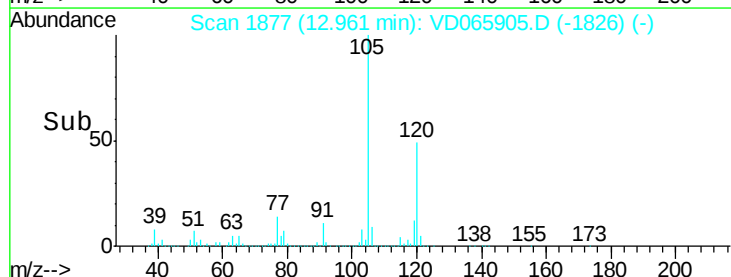
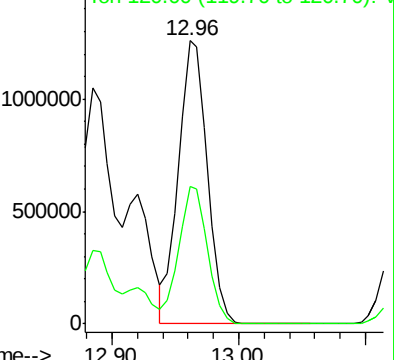
Ion Ratio Lower Upper

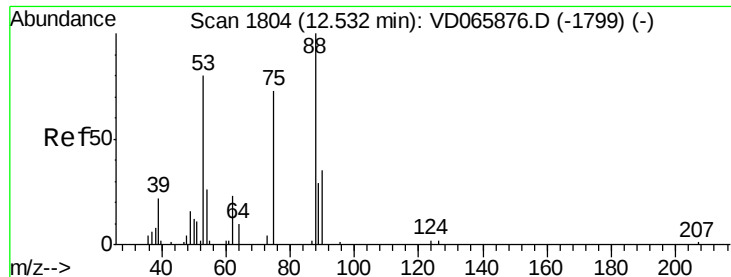
105 100

120 48.4 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 4.208 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.05 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

MUDDY-DRUM

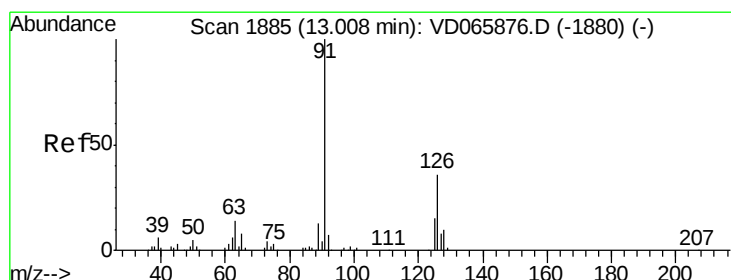
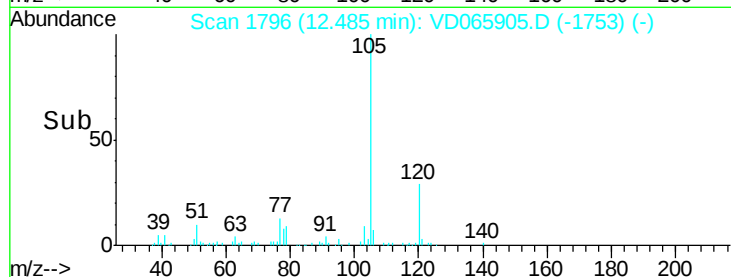
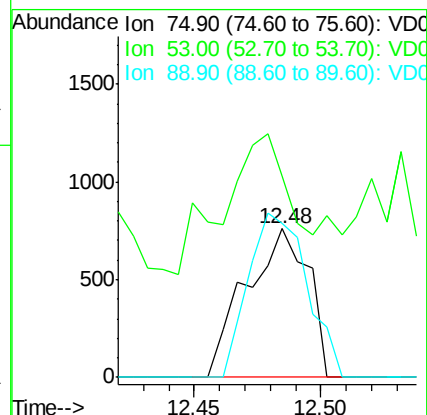
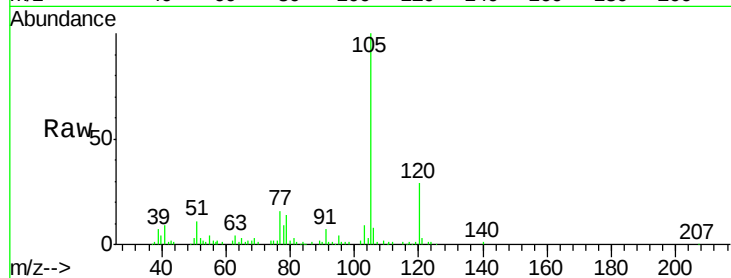
Tot Ion: 75 Resp: 1297

Ion Ratio Lower Upper

75 100

53 100.6 80.6 121.0

89 103.5 36.5 54.7#



#82

4-Chlorotoluene

Concen: 56.447 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.05 min

Lab File: VD065905.D

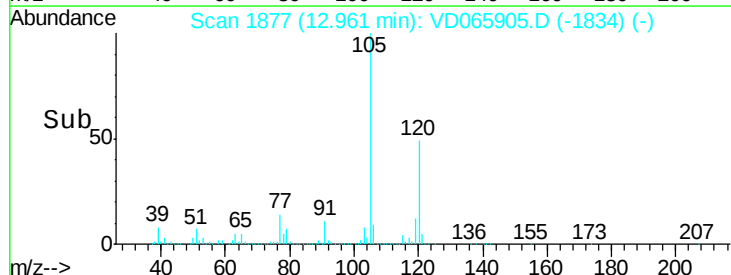
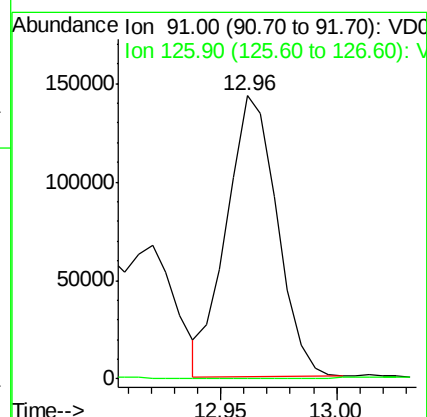
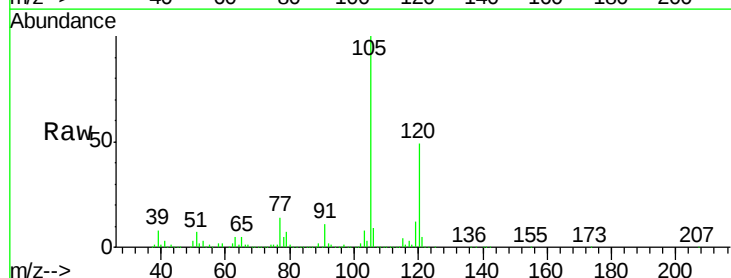
Acq: 01 Jul 2020 14:54

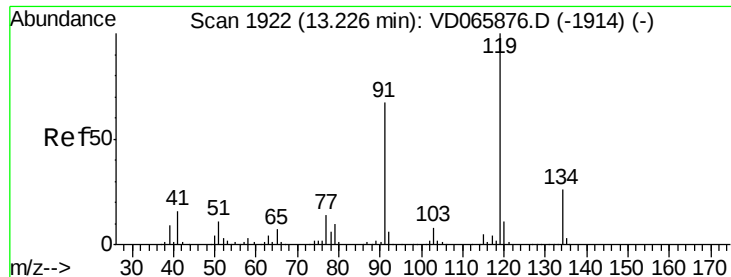
Tgt Ion: 91 Resp: 216953

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.8#

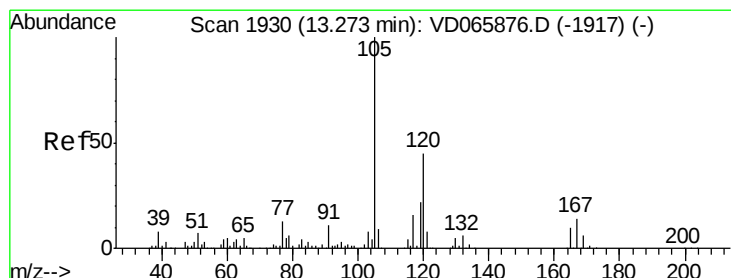
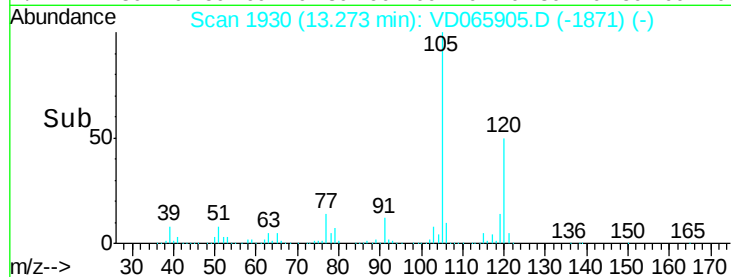
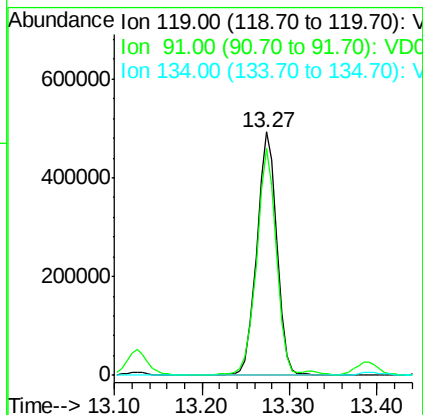
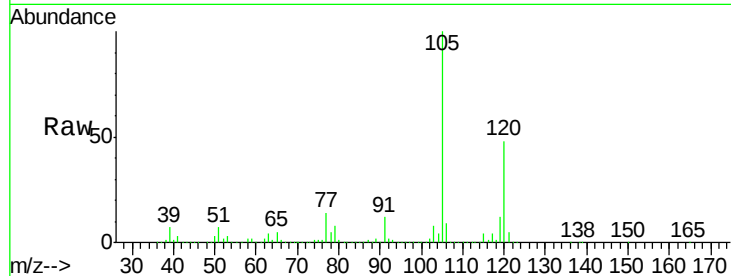




#83  
 tert-Butylbenzene  
 Concen: 201.827 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. 0.05 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

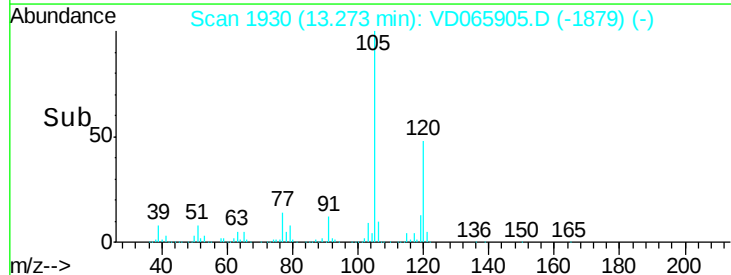
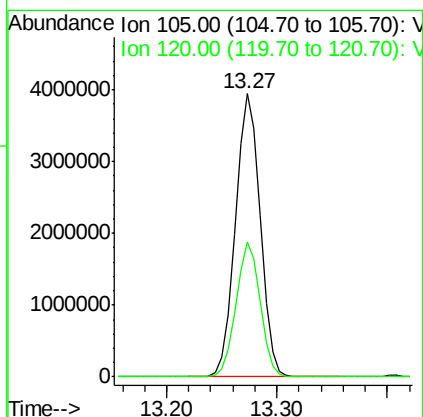
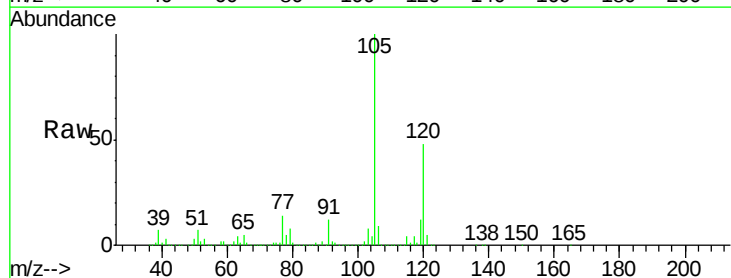
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MUDDY-DRUM

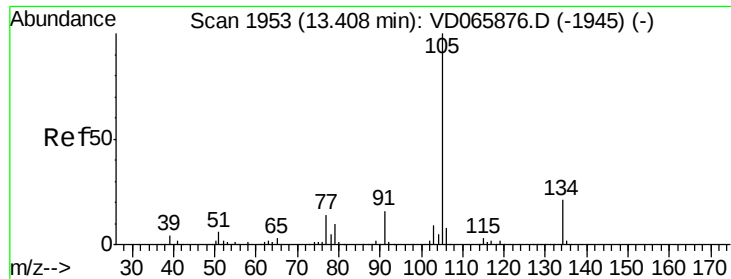
Tot Ion:119 Resp: 769570  
 Ion Ratio Lower Upper  
 119 100  
 91 91.8 32.2 96.6  
 134 0.0 13.5 40.4#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1390.277 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

Tgt Ion:105 Resp: 6205206  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 23.0 69.0





#85

sec-Butylbenzene

Concen: 1141.933 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.14 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

Instrument :

MSVOA\_D

ClientSampleId :

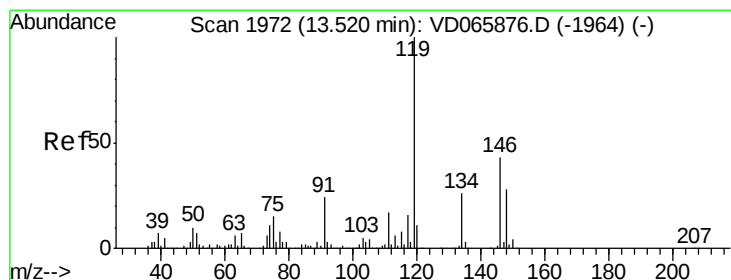
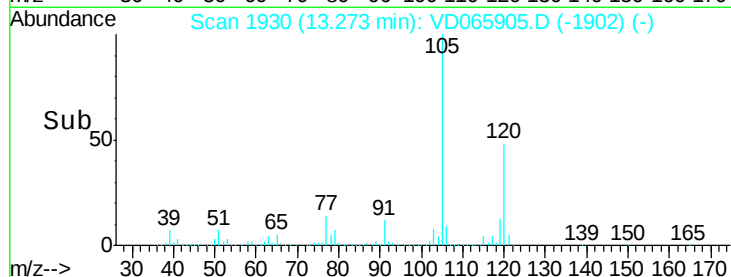
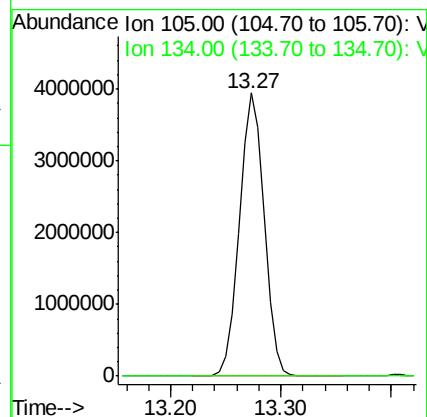
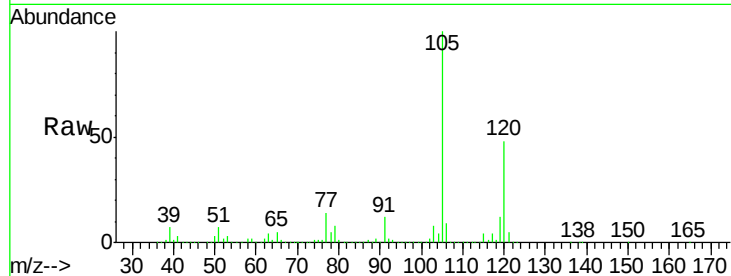
MUDDY-DRUM

Tot Ion:105 Resp: 6205052

Ion Ratio Lower Upper

105 100

134 0.0 10.0 29.8#



#86

p-Isopropyltoluene

Concen: 8.500 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065905.D

Acq: 01 Jul 2020 14:54

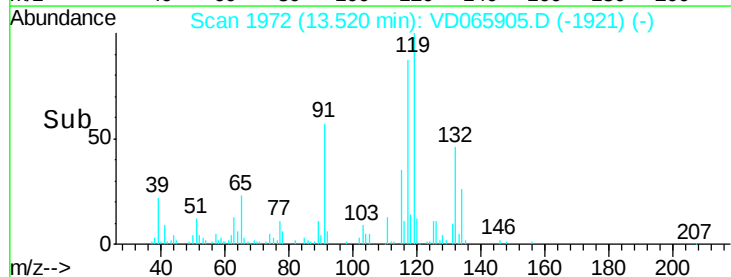
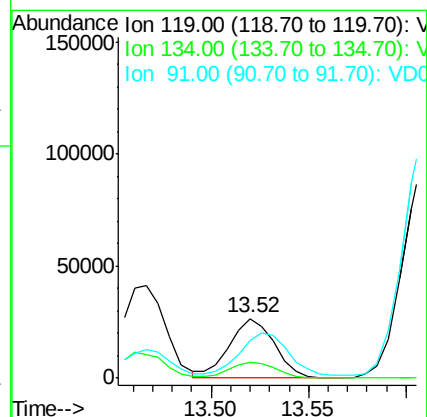
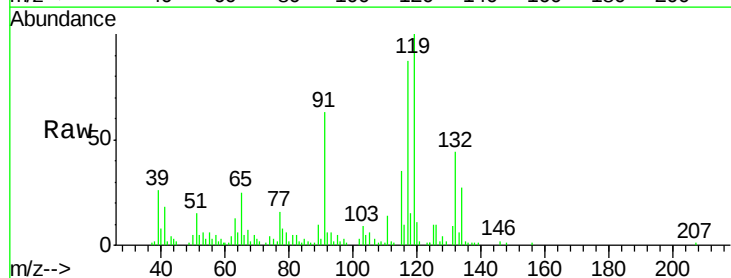
Tgt Ion:119 Resp: 41954

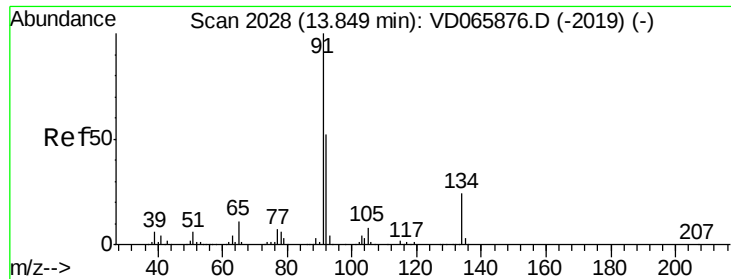
Ion Ratio Lower Upper

119 100

134 27.5 13.4 40.1

91 78.3 12.0 36.1#

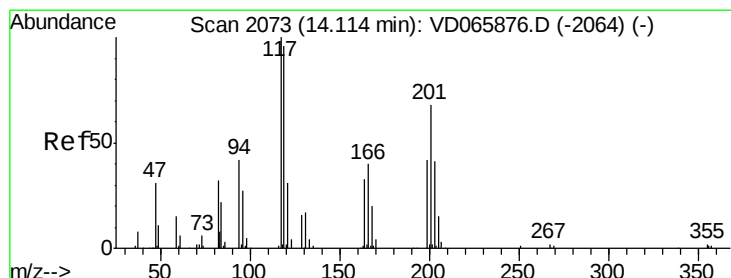
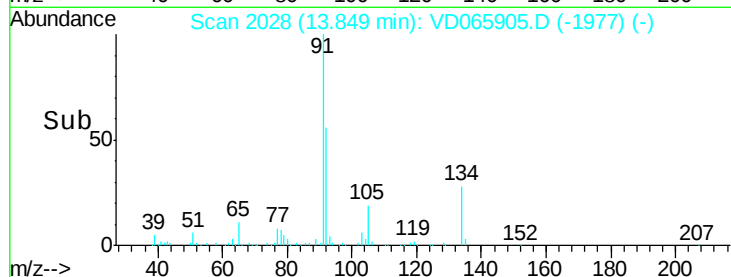
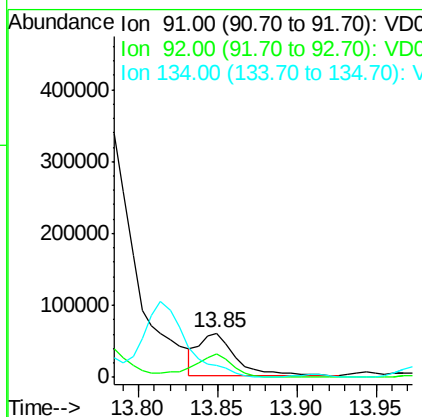
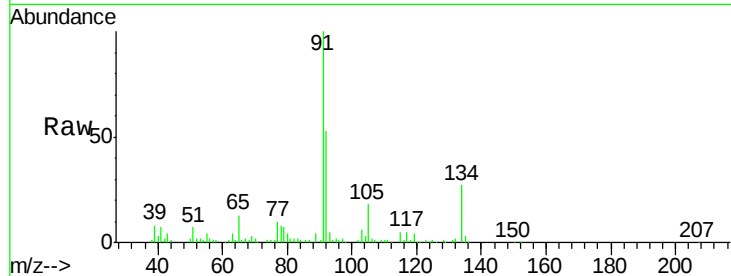




#89  
n-Butylbenzene  
Concen: 19.326 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

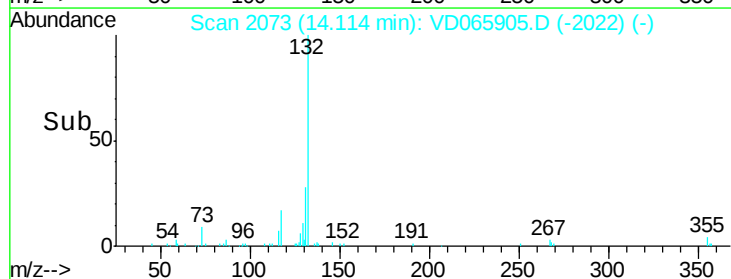
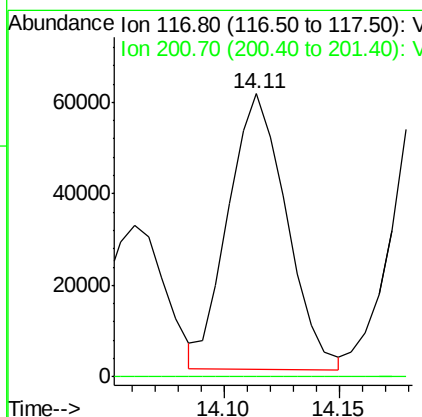
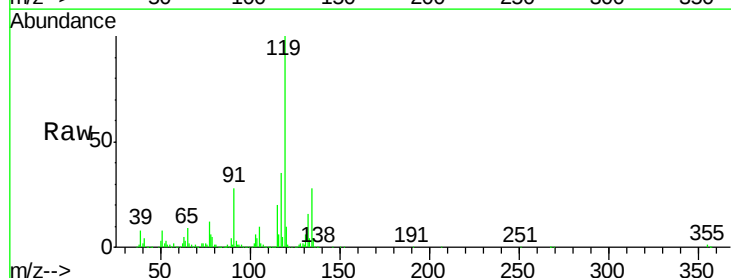
Instrument :  
MSVOA\_D  
ClientSampleId :  
MUDDY-DRUM

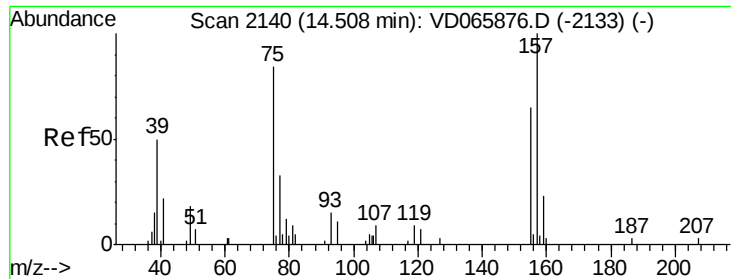
Tot Ion: 91 Resp: 93011  
Ion Ratio Lower Upper  
91 100  
92 59.9 26.5 79.4  
134 0.0 12.4 37.2#



#90  
Hexachloroethane  
Concen: 104.612 ug/l  
RT: 14.11 min Scan# 2073  
Delta R.T. 0.00 min  
Lab File: VD065905.D  
Acq: 01 Jul 2020 14:54

Tgt Ion: 117 Resp: 105366  
Ion Ratio Lower Upper  
117 100  
201 0.0 35.1 105.5#

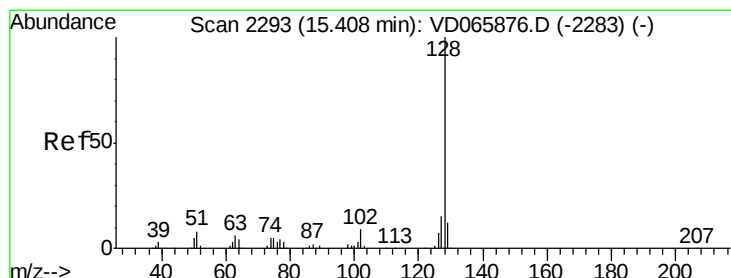
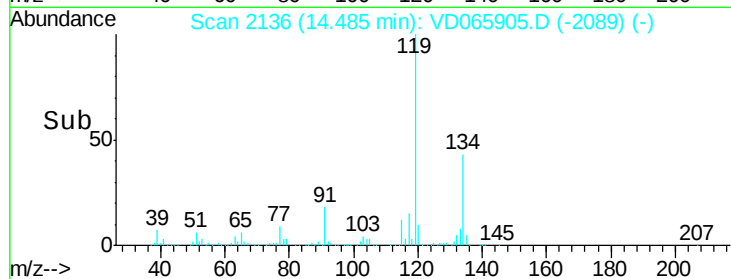
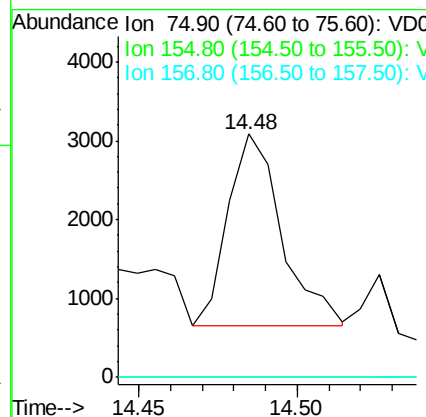
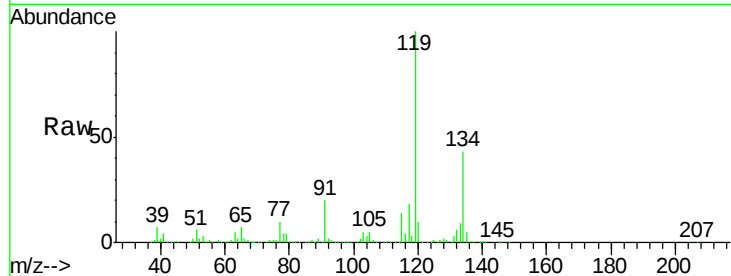




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.644 ug/l  
 RT: 14.48 min Scan# 2136  
 Delta R.T. -0.02 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MUDDY-DRUM

Tot Ion: 75 Resp: 2853  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 37.8 113.3#  
 157 0.0 50.6 151.8#



#95  
 Naphthalene  
 Concen: 3807.783 ug/l  
 RT: 15.41 min Scan# 2293  
 Delta R.T. 0.00 min  
 Lab File: VD065905.D  
 Acq: 01 Jul 2020 14:54

Tgt Ion: 128 Resp: 8989283  
 Ion Ratio Lower Upper  
 128 100  
 127 13.6 10.8 16.2  
 129 11.4 8.8 13.2

