

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060420\  
 Data File : VN061649.D  
 Acq On : 4 Jun 2020 13:30  
 Operator : JC/MD  
 Sample : L2840-03ME  
 Misc : 3.65g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DRUM-OILME

Quant Time: Jun 05 07:50:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 255407   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 425838   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 412381   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 238473   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

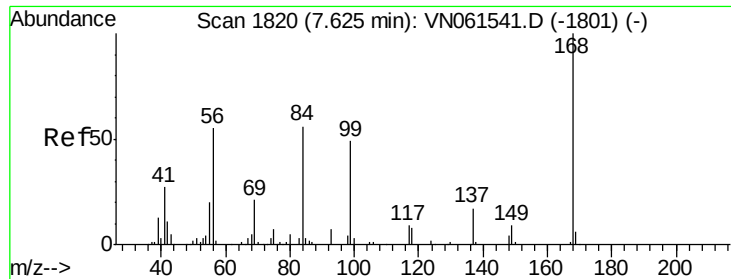
|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65  | 142989   | 46.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.98%  |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 105399   | 48.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.58%  |      |
| 50) Toluene-d8            | 10.06  | 98  | 509709   | 50.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.84% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 200551   | 54.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.82% |      |

## Target Compounds

|                            |       |     |         |        |        | Qvalue |
|----------------------------|-------|-----|---------|--------|--------|--------|
| 52) Toluene                | 10.12 | 92  | 8698    | 1.146  | ug/l   | 94     |
| 67) Ethyl Benzene          | 11.48 | 91  | 50980   | 3.441  | ug/l   | 96     |
| 68) m/p-Xylenes            | 11.59 | 106 | 102035  | 17.369 | ug/l   | 99     |
| 69) o-Xylene               | 11.92 | 106 | 67079   | 12.022 | ug/l   | 97     |
| 73) Isopropylbenzene       | 12.22 | 105 | 38981   | 2.240  | ug/l   | 98     |
| 78) n-propylbenzene        | 12.57 | 91  | 157902  | 8.126  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.71 | 105 | 341132  | 23.449 | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.01 | 105 | 1343441 | 92.957 | ug/l   | 99     |
| 85) sec-Butylbenzene       | 13.15 | 105 | 71160   | 4.296  | ug/l # | 76     |
| 86) p-Isopropyltoluene     | 13.26 | 119 | 49872   | 3.270  | ug/l   | 98     |
| 89) n-Butylbenzene         | 13.59 | 91  | 145713  | 11.405 | ug/l # | 72     |
| 95) Naphthalene            | 15.10 | 128 | 528452  | 39.484 | ug/l # | 86     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.01 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

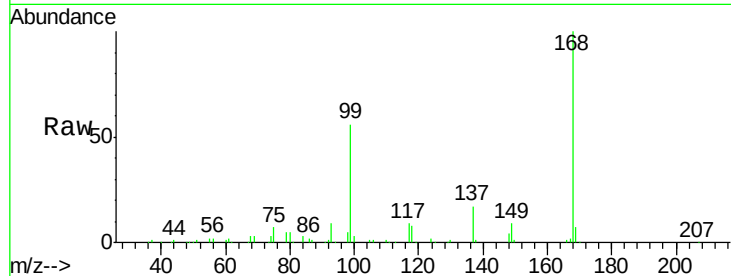
DRUM-OILME

Tot Ion:168 Resp: 255407

Ion Ratio Lower Upper

168 100

99 56.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

100000

80000

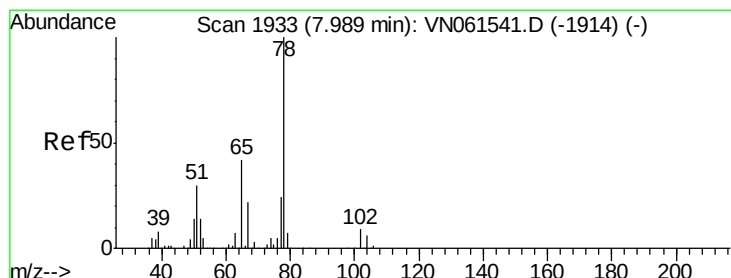
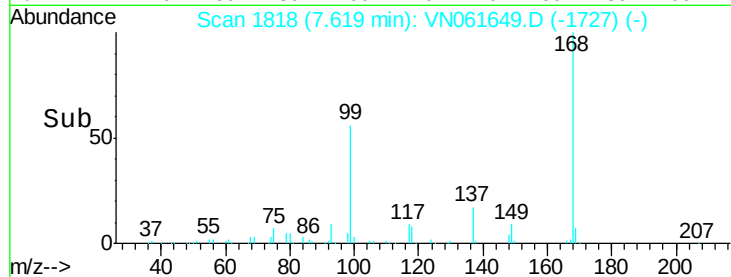
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.989 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.01 min

Lab File: VN061649.D

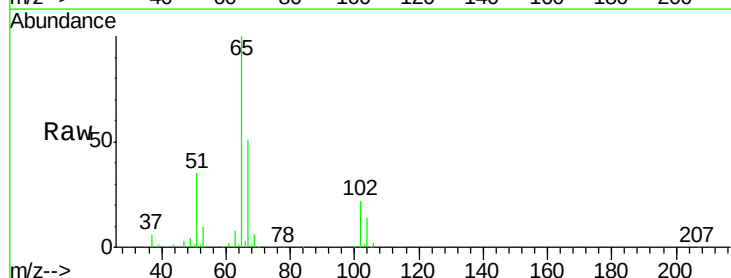
Acq: 4 Jun 2020 13:30

Tgt Ion: 65 Resp: 142989

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

7.98

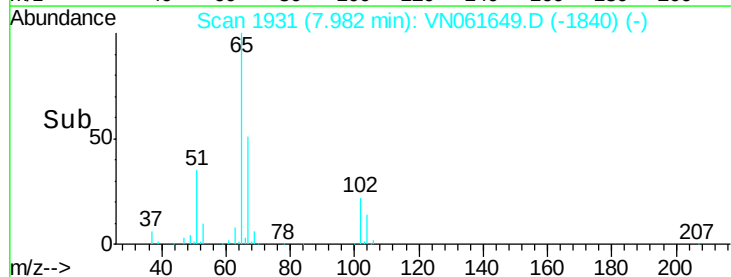
60000

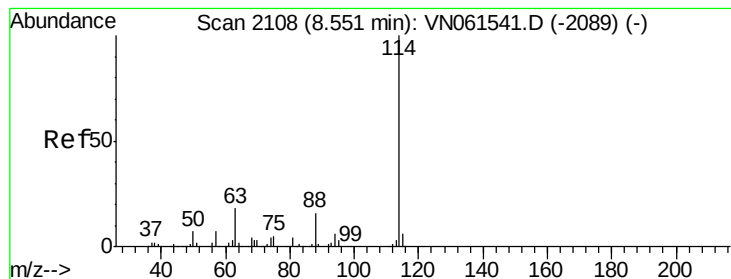
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

DRUM-OILME

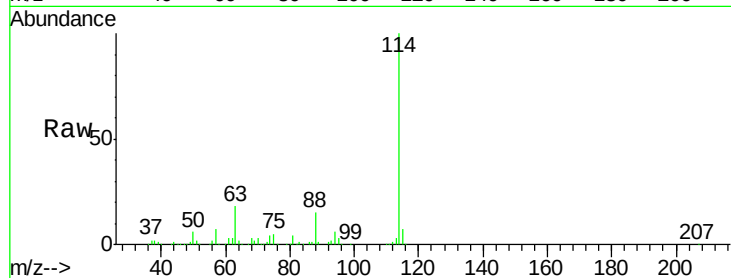
Tot Ion:114 Resp: 425838

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.8

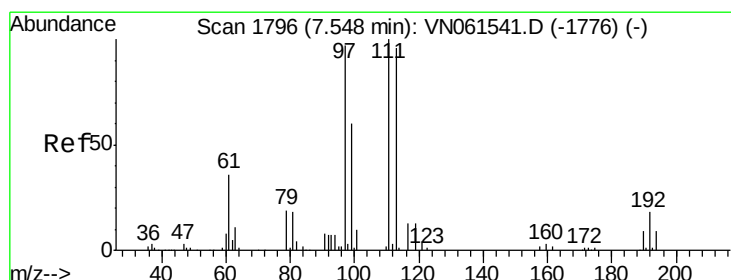
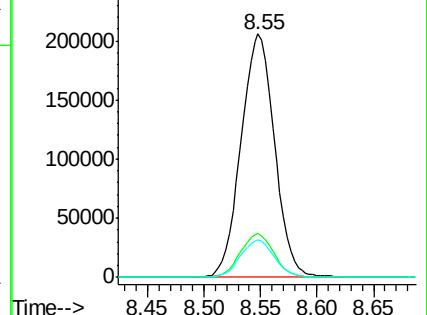
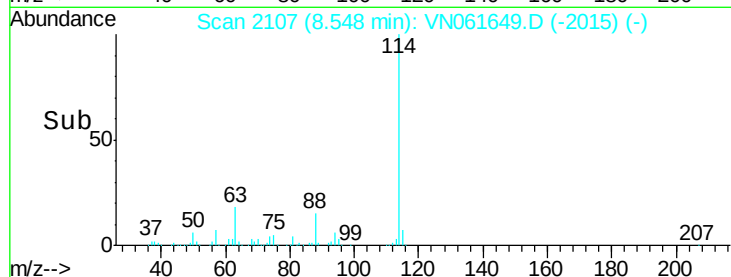
88 15.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.791 ug/l

RT: 7.54 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

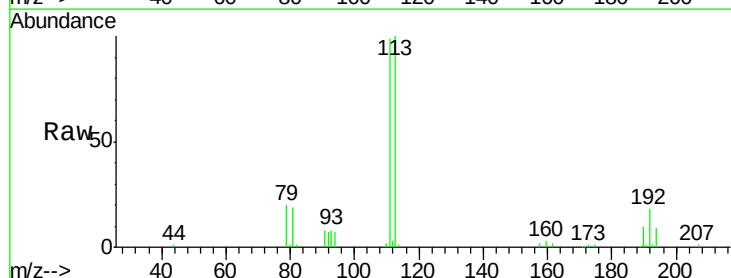
Tgt Ion:113 Resp: 105399

Ion Ratio Lower Upper

113 100

111 101.0 83.4 125.0

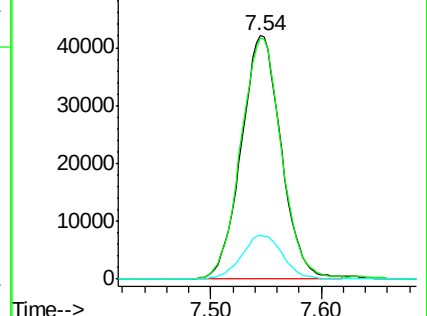
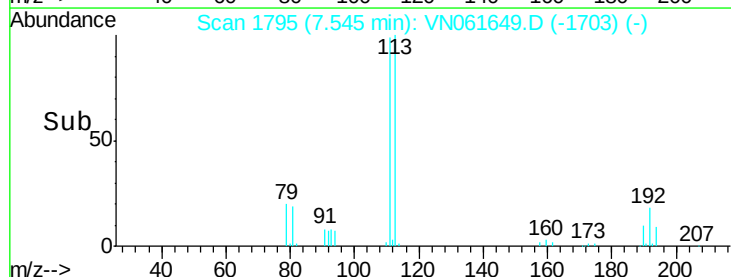
192 18.4 15.4 23.2

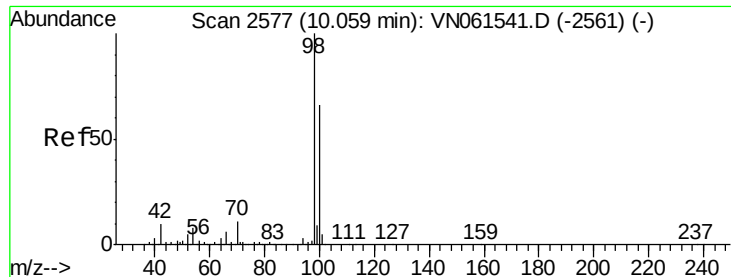


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.917 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

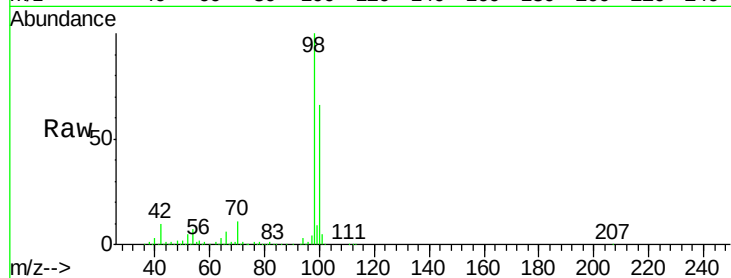
DRUM-OILME

Tot Ion: 98 Resp: 509709

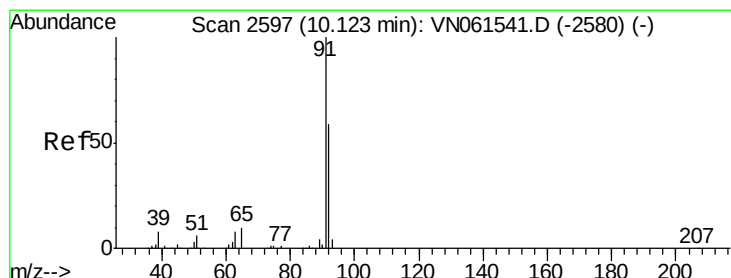
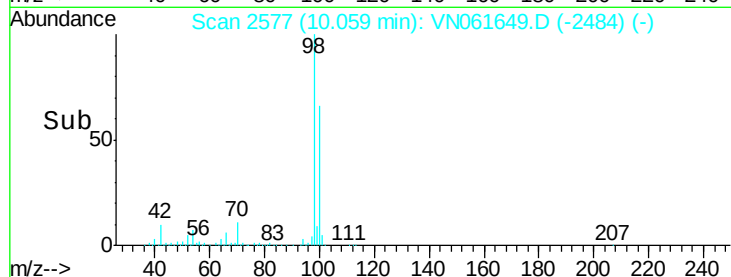
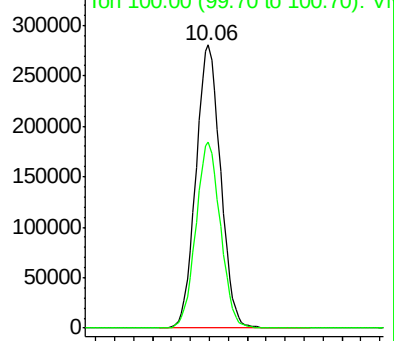
Ion Ratio Lower Upper

98 100

100 65.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061649.D (-2561) (-)



#52

Toluene

Concen: 1.146 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN061649.D

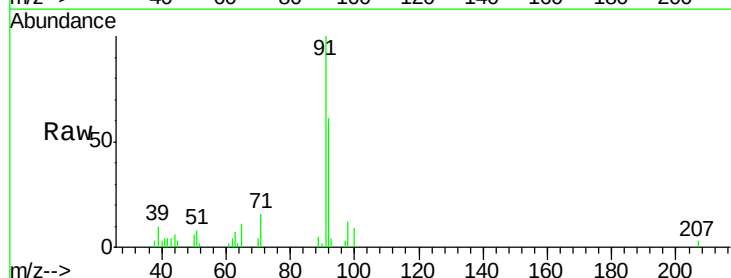
Acq: 4 Jun 2020 13:30

Tgt Ion: 92 Resp: 8698

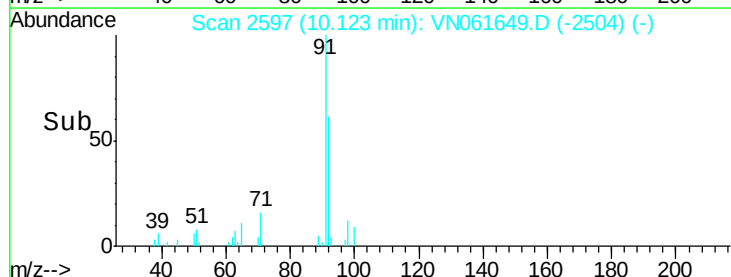
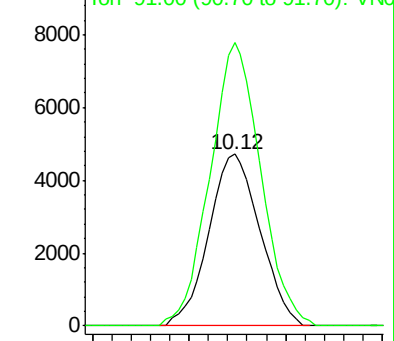
Ion Ratio Lower Upper

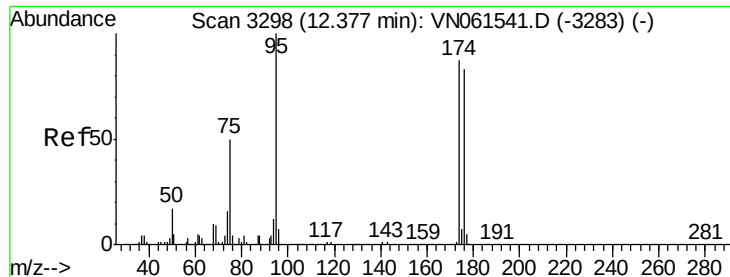
92 100

91 162.8 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VN061649.D (-2580) (-)





#62

4-Bromofluorobenzene

Concen: 54.912 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

DRUM-OILME

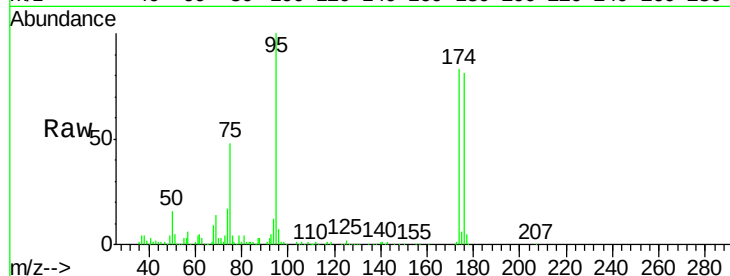
Tot Ion: 95 Resp: 200551

Ion Ratio Lower Upper

95 100

174 82.9 0.0 172.8

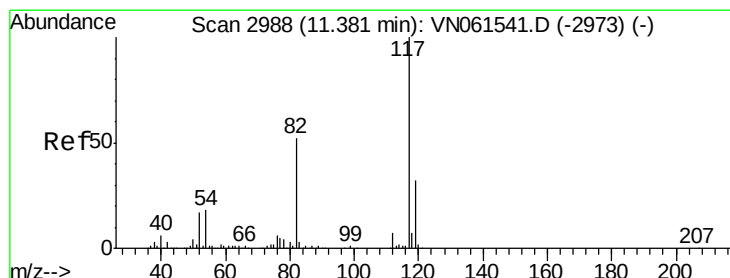
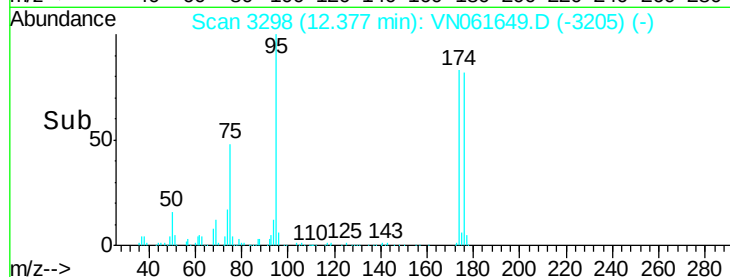
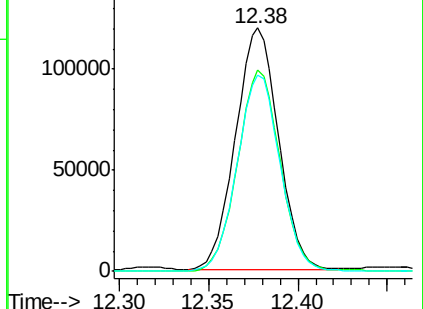
176 81.7 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

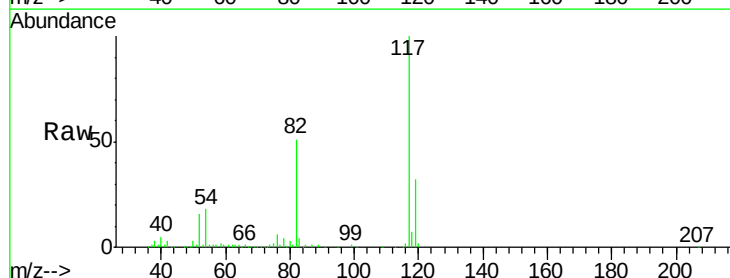
Tgt Ion: 117 Resp: 412381

Ion Ratio Lower Upper

117 100

82 50.8 41.5 62.3

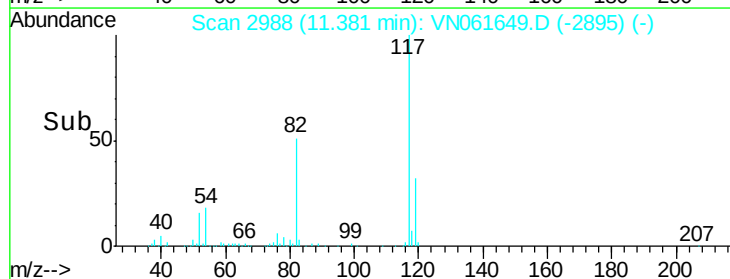
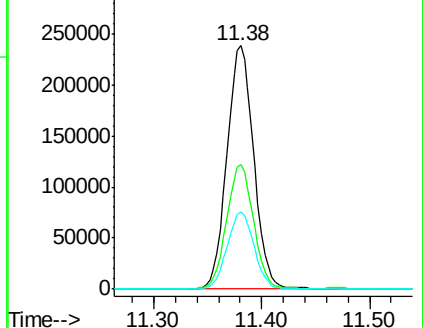
119 31.7 25.6 38.4

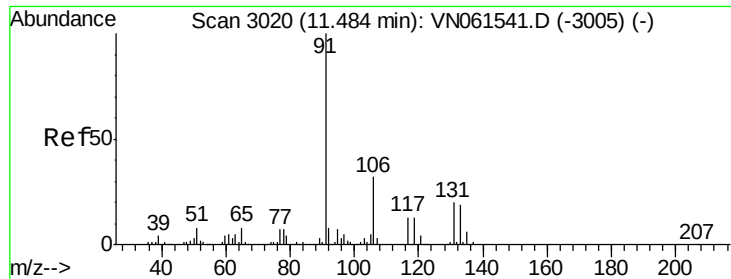


Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)

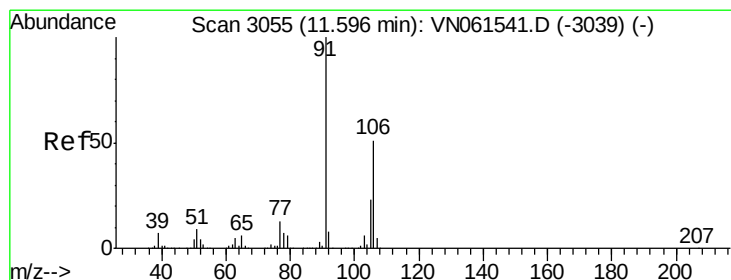
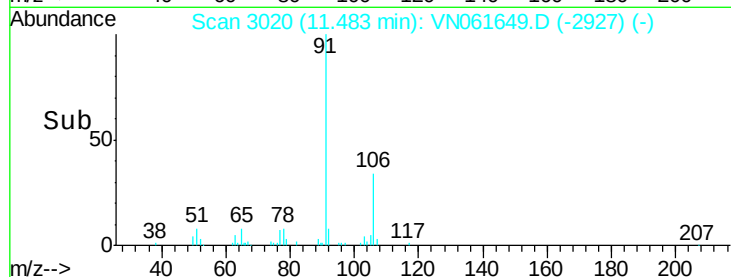
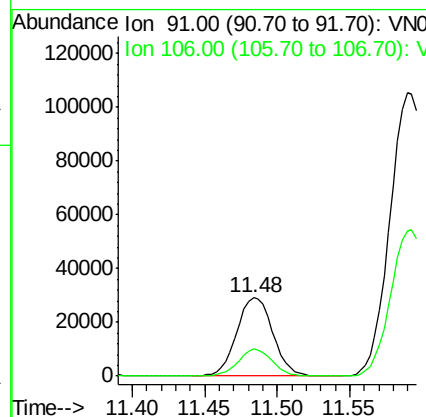
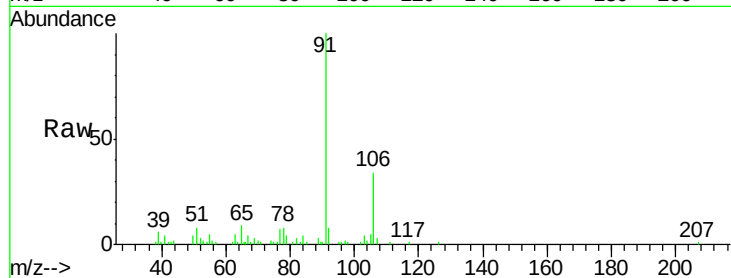




#67  
Ethyl Benzene  
Concen: 3.441 ug/l  
RT: 11.48 min Scan# 3020  
Delta R.T. -0.00 min  
Lab File: VN061649.D  
Acq: 4 Jun 2020 13:30

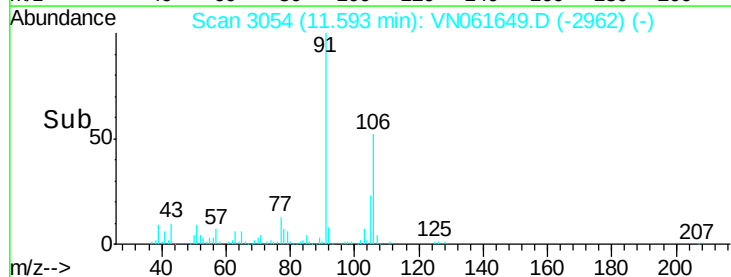
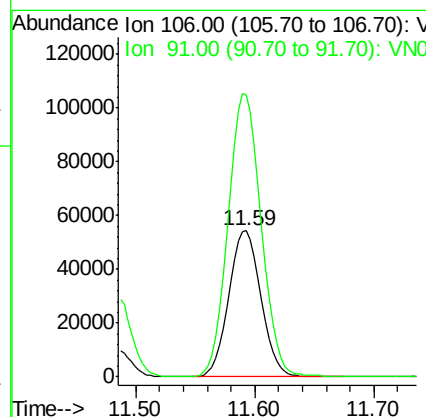
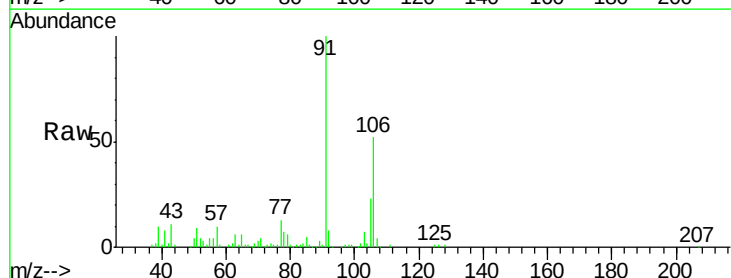
Instrument :  
MSVOA\_N  
ClientSampled :  
DRUM-OILME

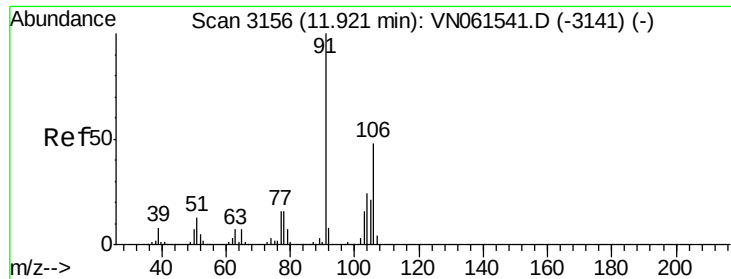
Tot Ion: 91 Resp: 50980  
Ion Ratio Lower Upper  
91 100  
106 34.4 25.6 38.4



#68  
m/p-Xylenes  
Concen: 17.369 ug/l  
RT: 11.59 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN061649.D  
Acq: 4 Jun 2020 13:30

Tgt Ion: 106 Resp: 102035  
Ion Ratio Lower Upper  
106 100  
91 197.2 156.2 234.4

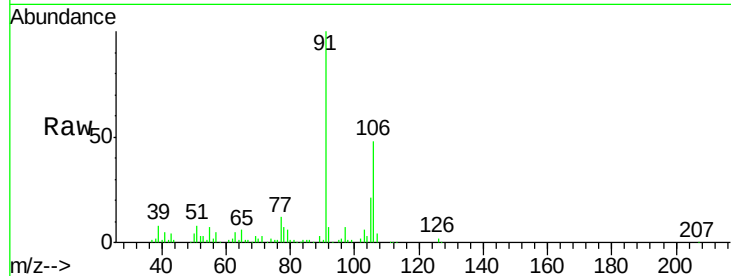




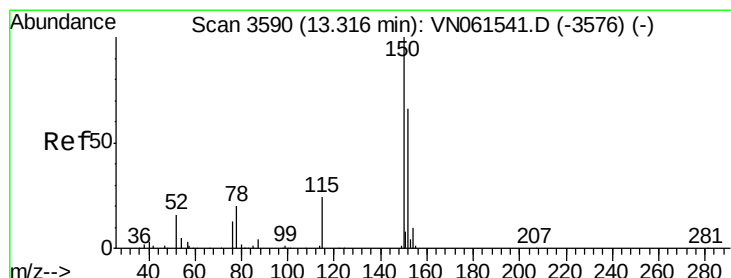
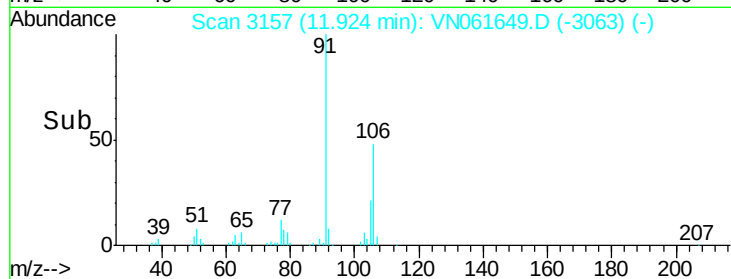
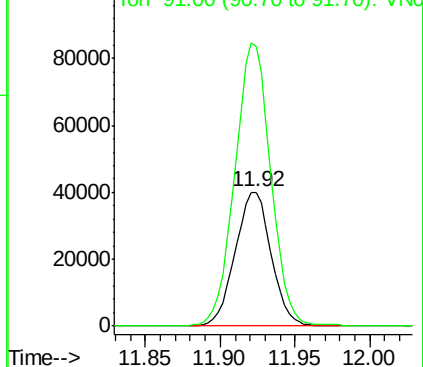
#69  
o-Xylene  
Concen: 12.022 ug/l  
RT: 11.92 min Scan# 3157  
Delta R.T. 0.00 min  
Lab File: VN061649.D  
Acq: 4 Jun 2020 13:30

Instrument :  
MSVOA\_N  
ClientSampled :  
DRUM-OILME

Tot Ion:106 Resp: 67079  
Ion Ratio Lower Upper  
106 100  
91 211.7 103.3 309.8

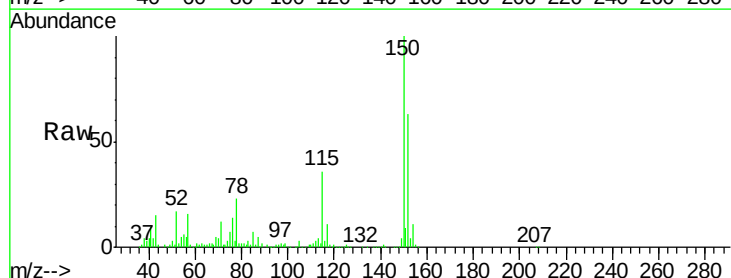


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0

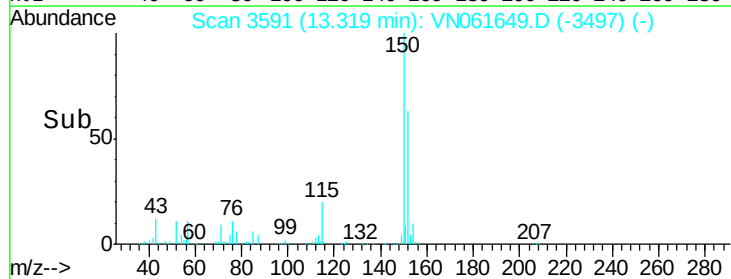
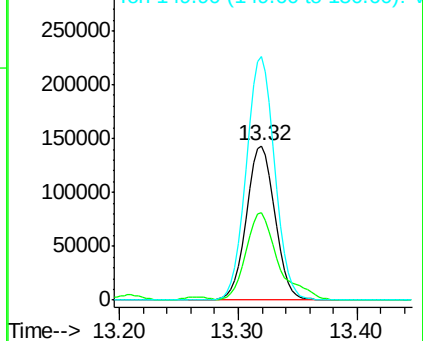


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN061649.D  
Acq: 4 Jun 2020 13:30

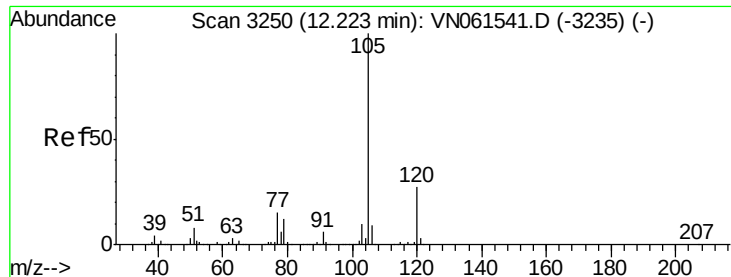
Tgt Ion:152 Resp: 238473  
Ion Ratio Lower Upper  
152 100  
115 63.1 28.0 84.0  
150 157.6 0.0 344.0



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







#73

Isopropylbenzene

Concen: 2.240 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampled :

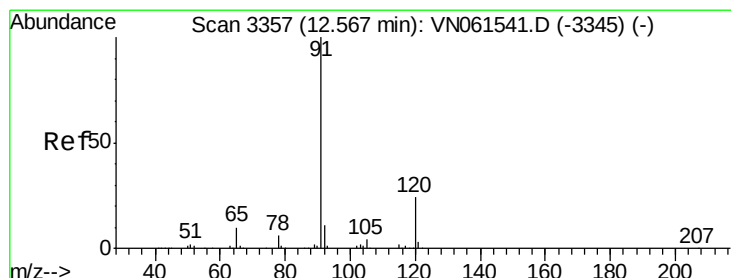
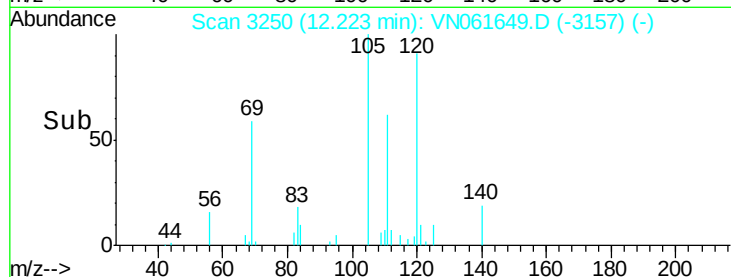
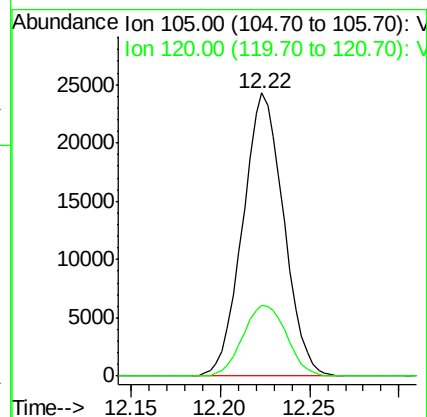
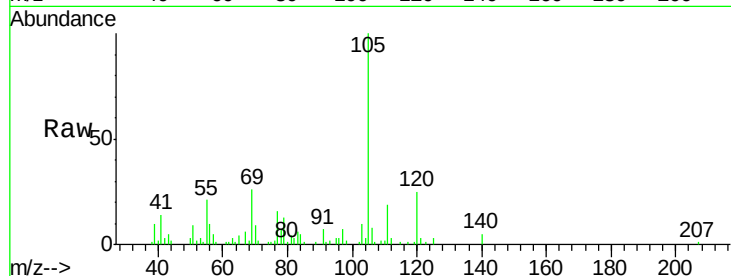
DRUM-OILME

Tot Ion:105 Resp: 38981

Ion Ratio Lower Upper

105 100

120 26.5 13.8 41.3



#78

n-propylbenzene

Concen: 8.126 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. -0.00 min

Lab File: VN061649.D

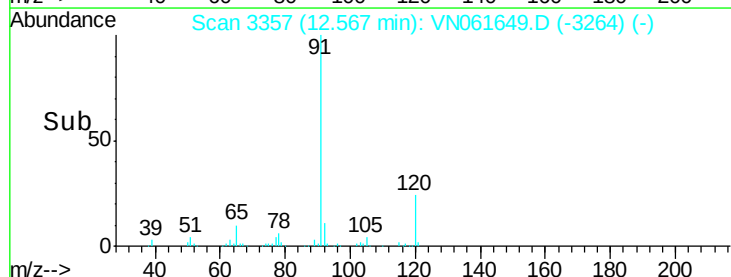
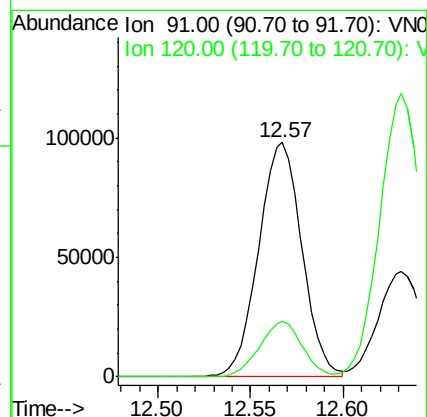
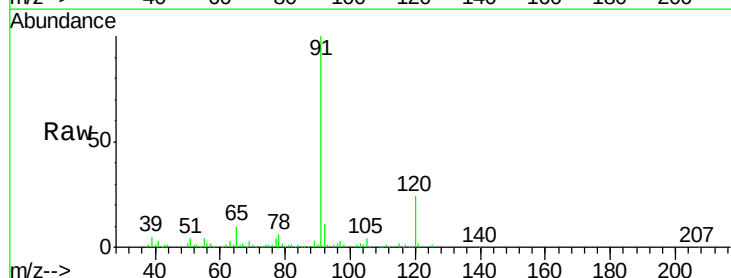
Acq: 4 Jun 2020 13:30

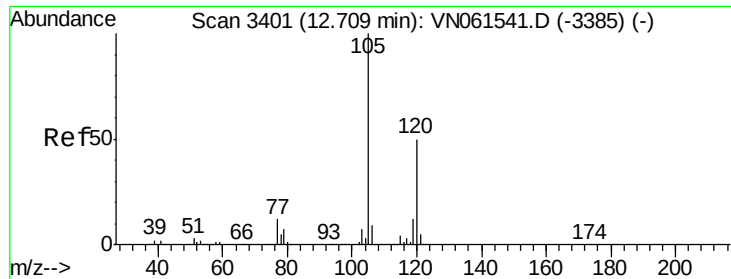
Tgt Ion: 91 Resp: 157902

Ion Ratio Lower Upper

91 100

120 23.7 12.3 36.9

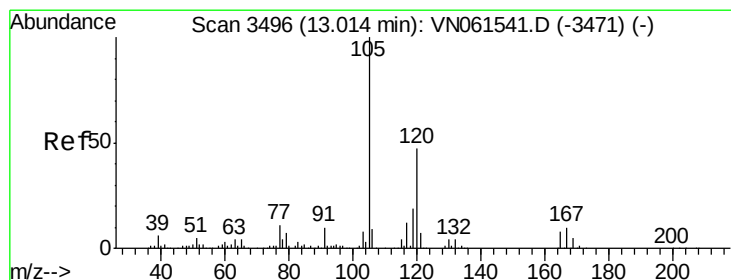
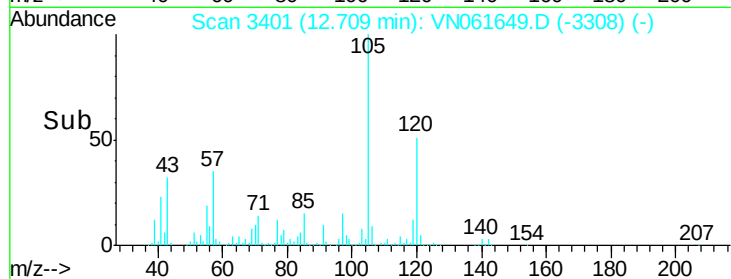
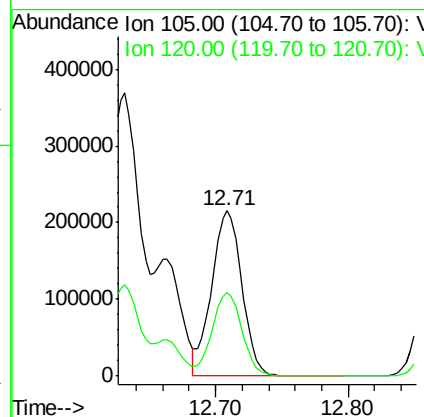
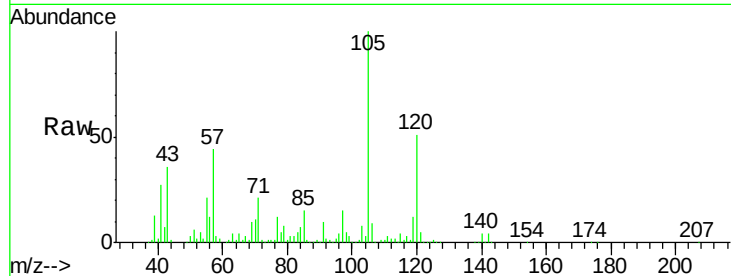




#80  
 1,3,5-Trimethylbenzene  
 Concen: 23.449 ug/l  
 RT: 12.71 min Scan# 3401  
 Delta R.T. -0.00 min  
 Lab File: VN061649.D  
 Acq: 4 Jun 2020 13:30

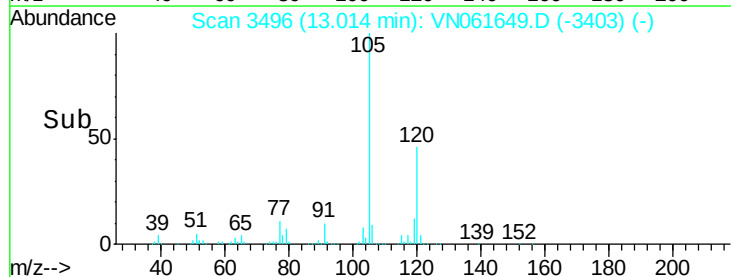
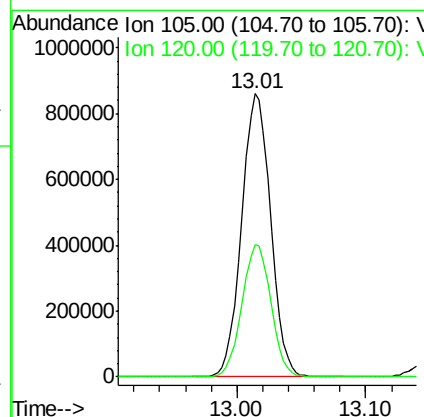
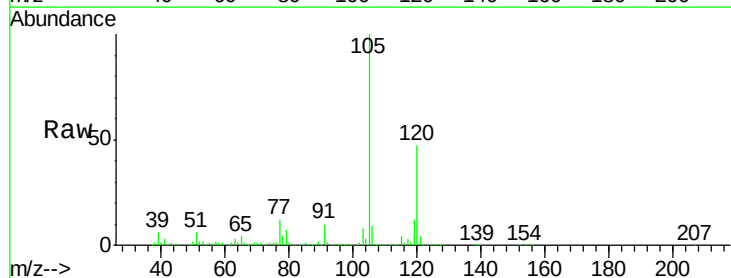
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DRUM-OILME

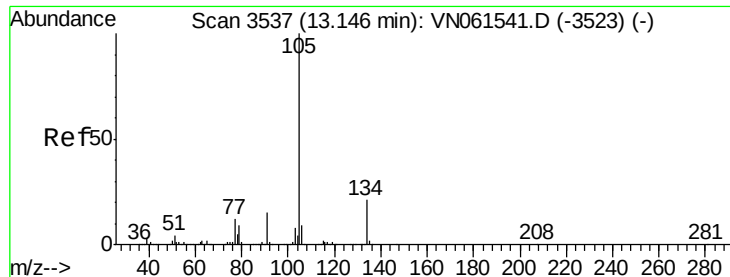
Tot Ion:105 Resp: 341132  
 Ion Ratio Lower Upper  
 105 100  
 120 49.8 25.1 75.2



#84  
 1,2,4-Trimethylbenzene  
 Concen: 92.957 ug/l  
 RT: 13.01 min Scan# 3496  
 Delta R.T. -0.00 min  
 Lab File: VN061649.D  
 Acq: 4 Jun 2020 13:30

Tgt Ion:105 Resp: 1343441  
 Ion Ratio Lower Upper  
 105 100  
 120 46.8 23.2 69.5





#85

sec-Butylbenzene

Concen: 4.296 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

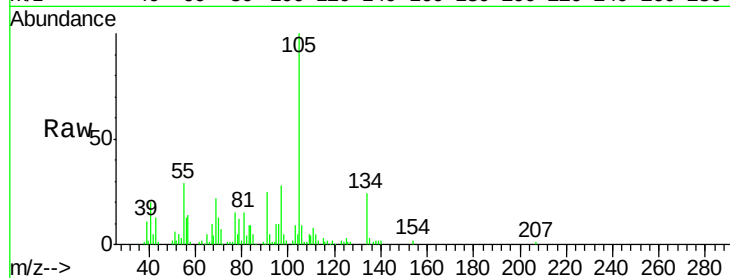
DRUM-OILME

Tot Ion:105 Resp: 71160

Ion Ratio Lower Upper

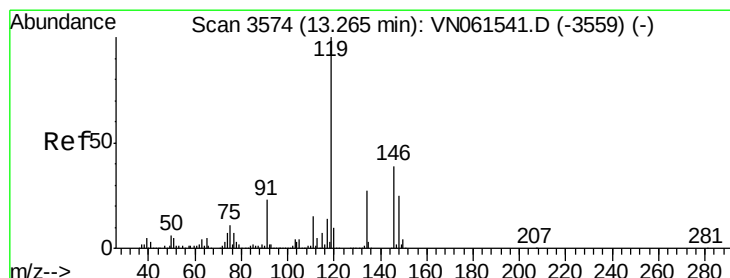
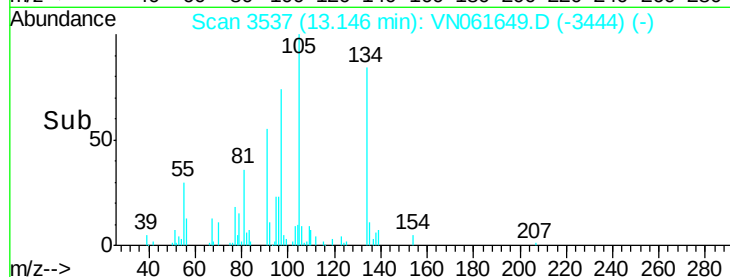
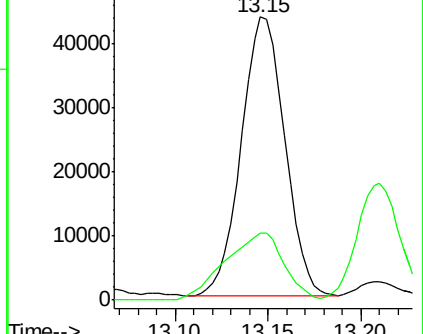
105 100

134 32.4 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.270 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

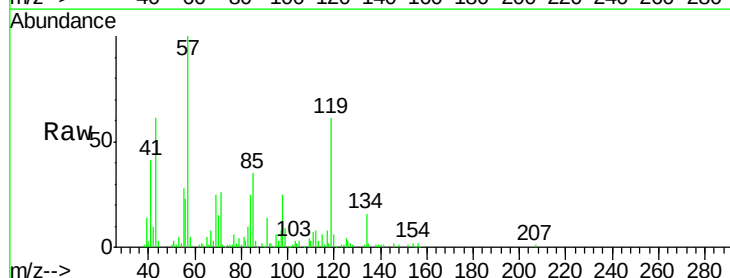
Tgt Ion:119 Resp: 49872

Ion Ratio Lower Upper

119 100

134 28.0 13.5 40.5

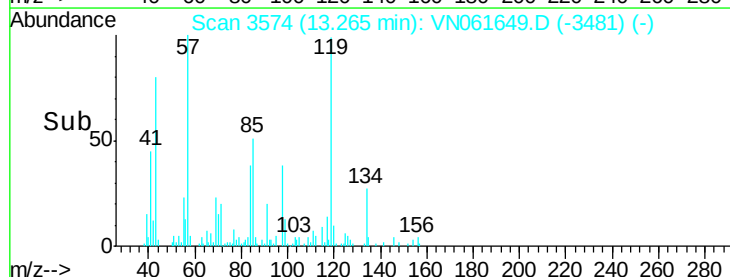
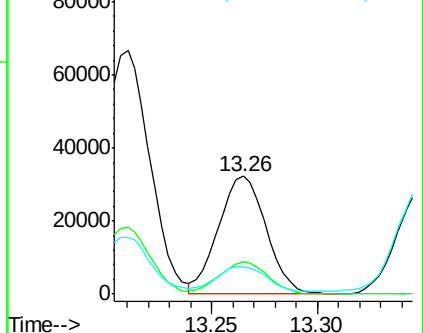
91 21.9 11.4 34.1

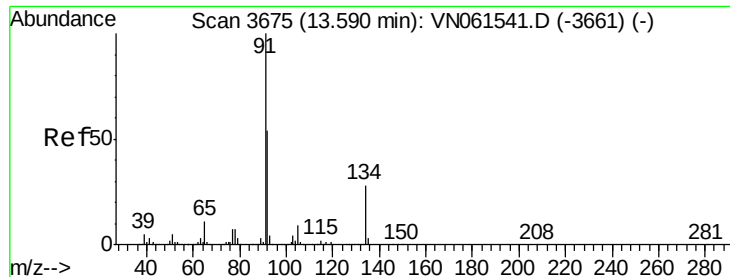


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 11.405 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

Instrument :

MSVOA\_N

ClientSampleId :

DRUM-OILME

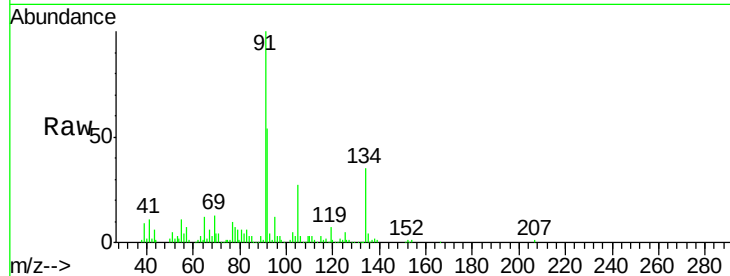
Tot Ion: 91 Resp: 145713

Ion Ratio Lower Upper

91 100

92 65.2 27.2 81.6

134 0.0 14.0 42.0#

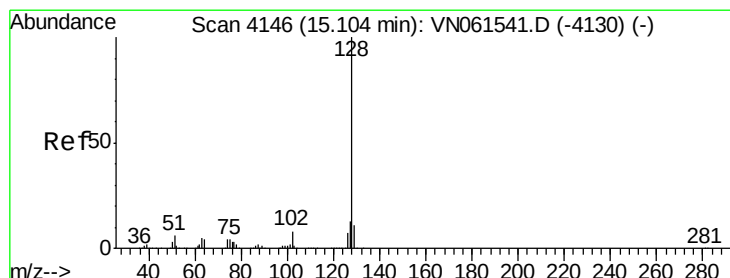
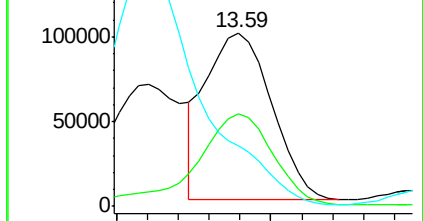
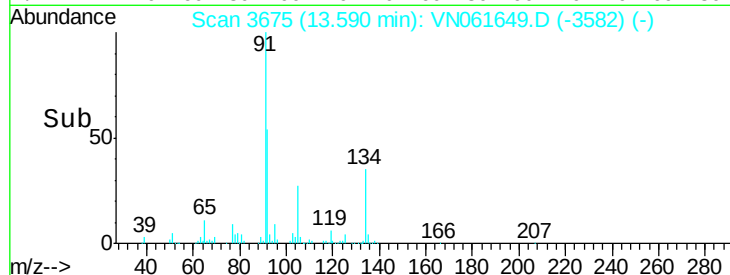


Abundance Ion 91.00 (90.70 to 91.70): VN061649.D (-3661) (-)

Ion 92.00 (91.70 to 92.70): VN061649.D (-3661) (-)

Ion 134.00 (133.70 to 134.70): VN061649.D (-3661) (-)

Time--> 13.55 13.60



#95

Naphthalene

Concen: 39.484 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN061649.D

Acq: 4 Jun 2020 13:30

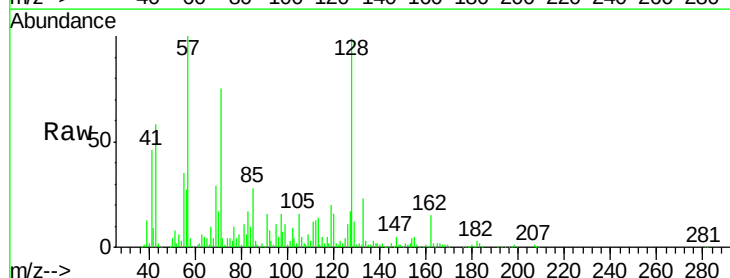
Tgt Ion: 128 Resp: 528452

Ion Ratio Lower Upper

128 100

127 20.5 10.0 15.0#

129 12.7 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): VN061649.D (-4130) (-)

Ion 127.00 (126.70 to 127.70): VN061649.D (-4130) (-)

Ion 129.00 (128.70 to 129.70): VN061649.D (-4130) (-)

Time--> 15.05 15.10 15.15

