

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\  
 Data File : VN053986.D  
 Acq On : 27 Feb 2019 23:18  
 Operator : JC/SP  
 Sample : K1633-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SR-11-S

Quant Time: Feb 28 07:59:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 05:37:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 607593   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1118645  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1097835  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 432767   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 394862   | 55.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 110.88% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 356047   | 49.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.44%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1421012  | 52.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.54% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 484520   | 54.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 108.02% |          |

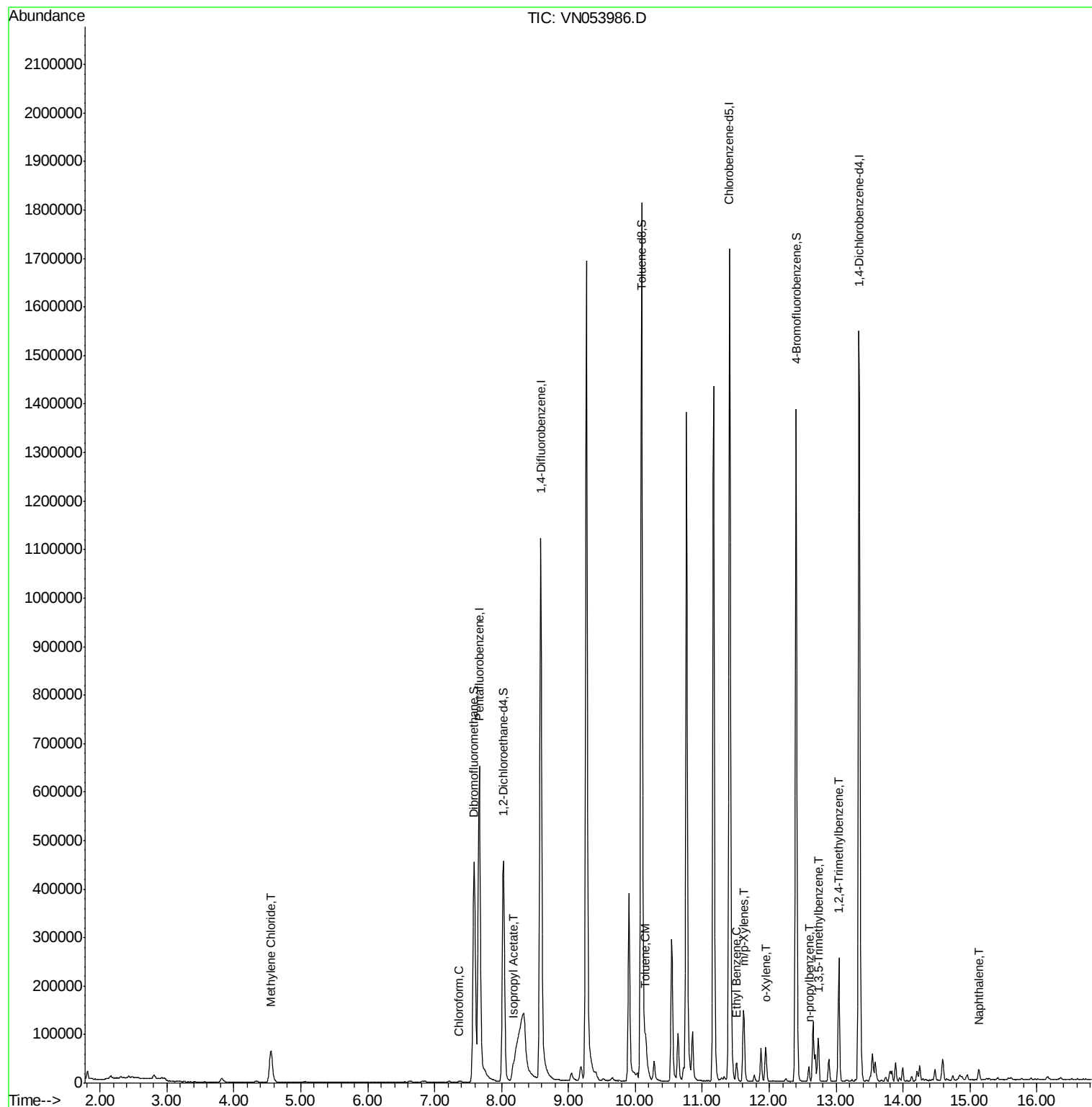
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 20) Methylene Chloride     | 4.55  | 84   | 49187    | 6.978 | ug/l  | 90     |
| 30) Chloroform             | 7.36  | 83   | 2924     | 0.242 | ug/l  | 100    |
| 43) Isopropyl Acetate      | 8.17  | 43   | 34315    | 2.736 | ug/l  | 96     |
| 52) Toluene                | 10.16 | 92   | 20086    | 1.067 | ug/l  | 100    |
| 67) Ethyl Benzene          | 11.51 | 91   | 29267    | 0.753 | ug/l  | 96     |
| 68) m/p-Xylenes            | 11.62 | 106  | 50291    | 3.431 | ug/l  | 99     |
| 69) o-Xylene               | 11.95 | 106  | 19843    | 1.378 | ug/l  | 100    |
| 78) n-propylbenzene        | 12.59 | 91   | 23262    | 0.607 | ug/l  | 95     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 49121    | 1.781 | ug/l  | 95     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 144690   | 5.255 | ug/l  | 98     |
| 95) Naphthalene            | 15.13 | 128  | 20019    | 4.305 | ug/l  | 99     |

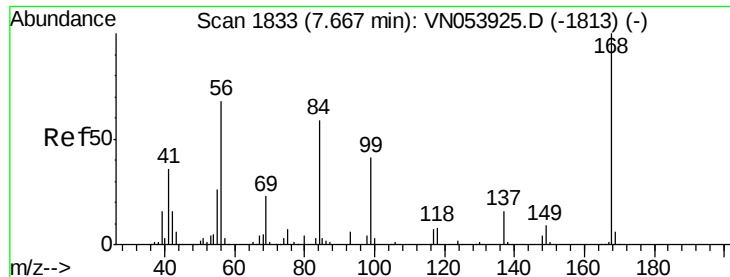
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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SR-11-S

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 05:37:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Instrument :

MSVOA\_N

ClientSampleId :

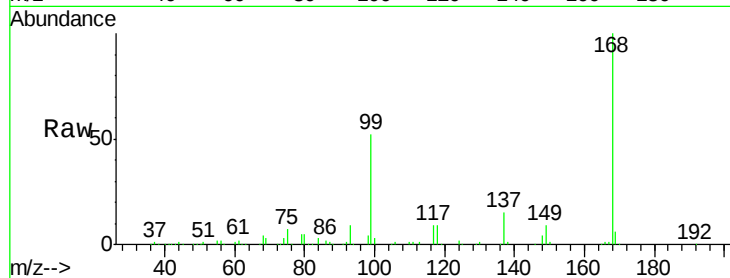
SR-11-S

Tot Ion:168 Resp: 607593

Ion Ratio Lower Upper

168 100

99 52.3 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

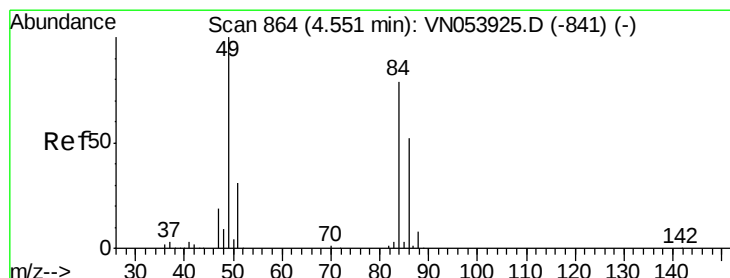
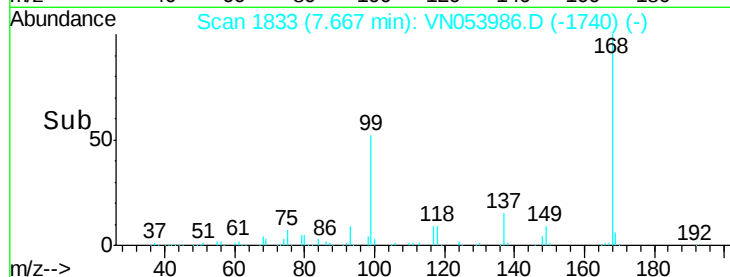
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 6.978 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Tgt Ion: 84 Resp: 49187

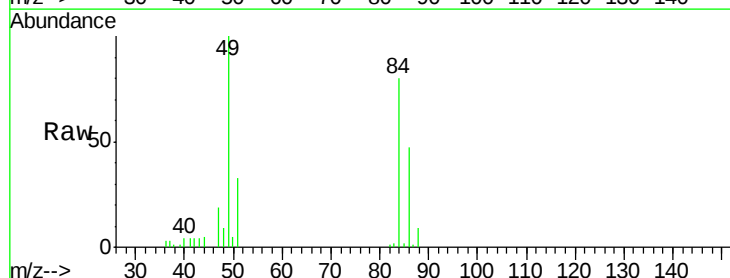
Ion Ratio Lower Upper

84 100

49 125.5 89.7 134.5

51 41.0 27.8 41.8

86 59.6 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

4.55

30000

25000

20000

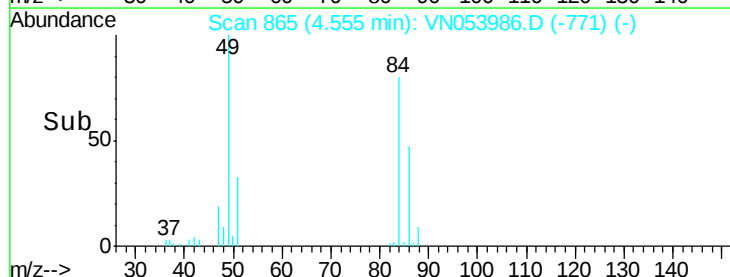
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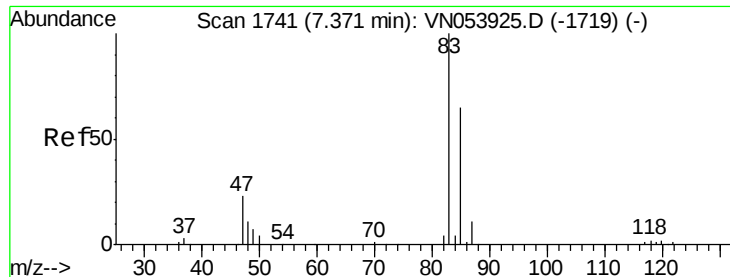
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5000

0

Time-->

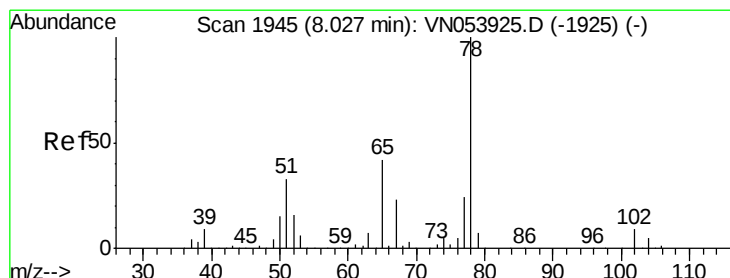
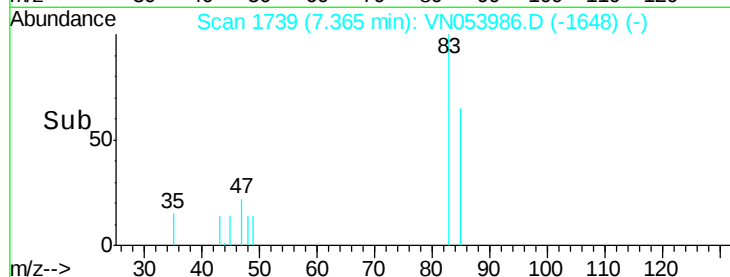
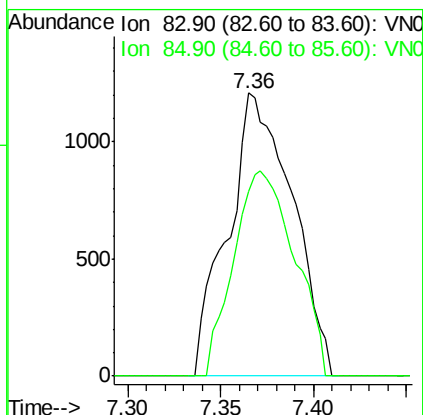
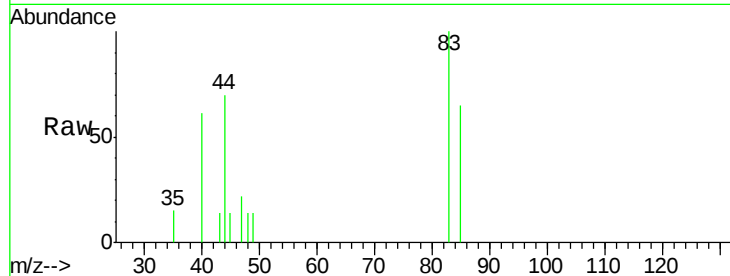




#30  
 Chloroform  
 Concen: 0.242 ug/l  
 RT: 7.36 min Scan# 1739  
 Delta R.T. -0.01 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

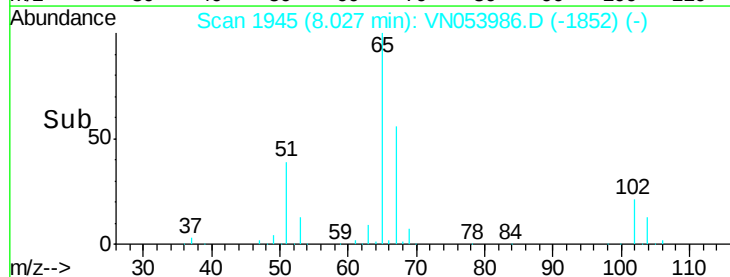
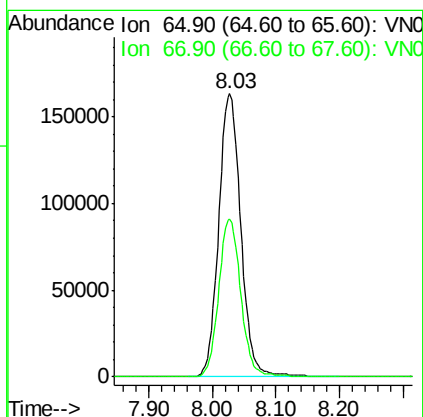
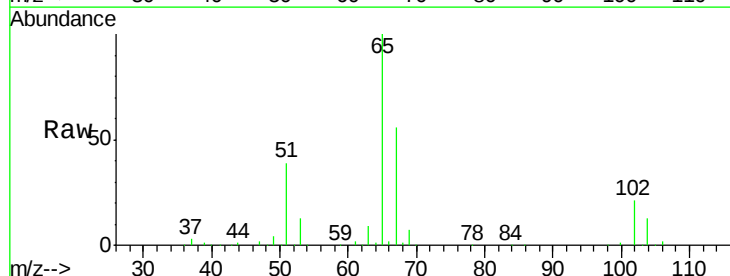
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 SR-11-S

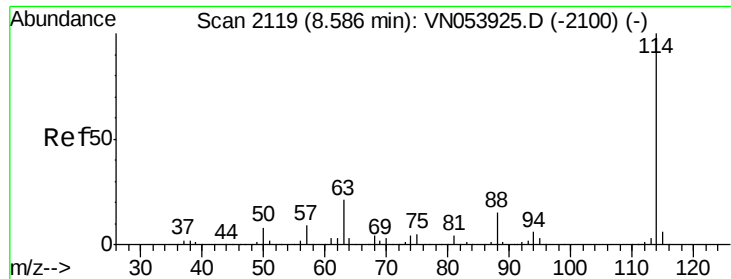
Tot Ion: 83 Resp: 2924  
 Ion Ratio Lower Upper  
 83 100  
 85 65.4 52.6 78.8



#33  
 1,2-Dichloroethane-d4  
 Concen: 55.440 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

Tgt Ion: 65 Resp: 394862  
 Ion Ratio Lower Upper  
 65 100  
 67 55.6 0.0 111.8

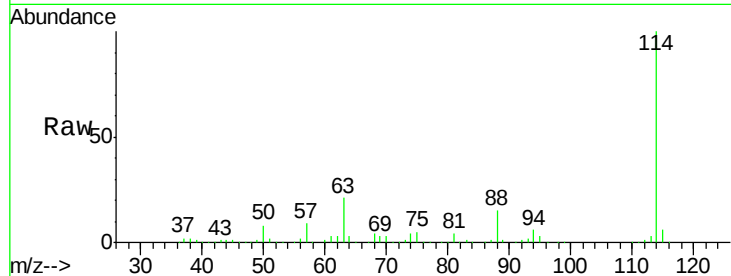




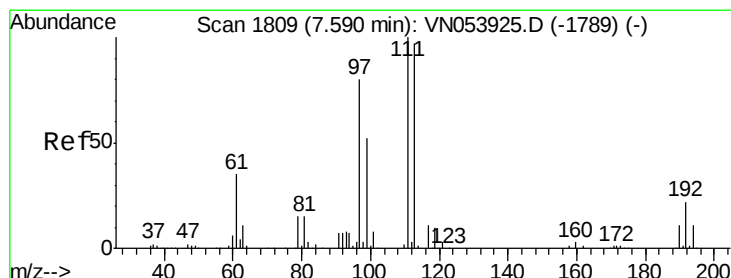
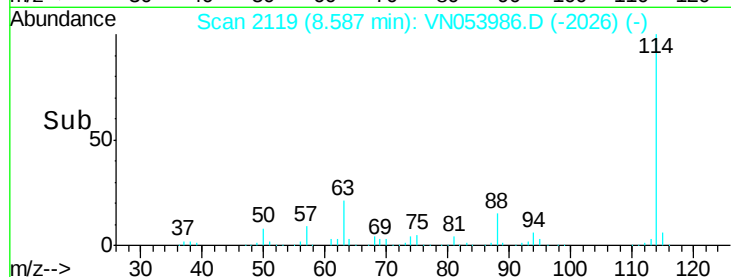
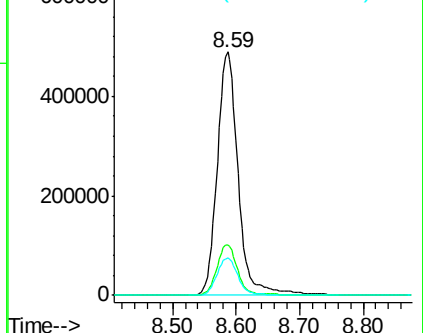
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SR-11-S

Tot Ion:114 Resp: 1118645  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 37.4  
 88 15.2 0.0 30.4

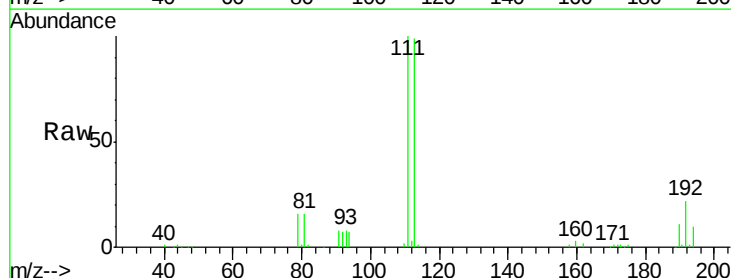


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

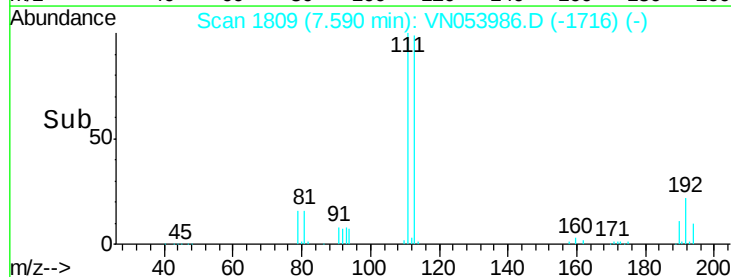
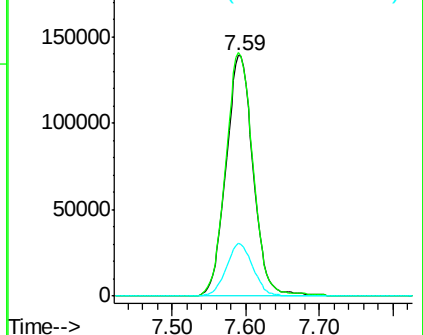


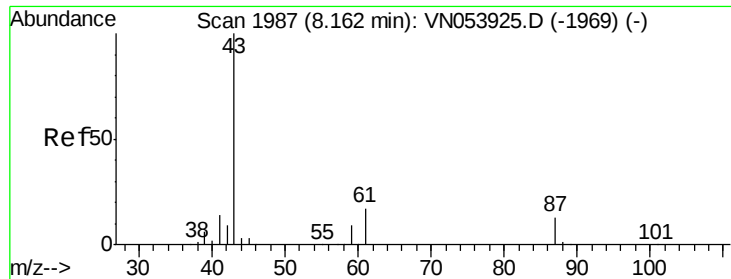
#35  
 Dibromofluoromethane  
 Concen: 49.220 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

Tgt Ion:113 Resp: 356047  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.1 121.7  
 192 21.4 18.8 28.2



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





#43

Isopropyl Acetate

Concen: 2.736 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Instrument :

MSVOA\_N

ClientSampleId :

SR-11-S

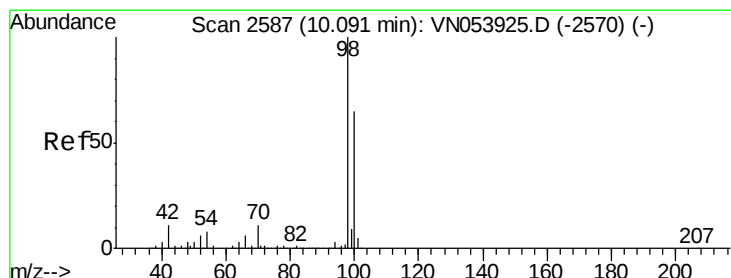
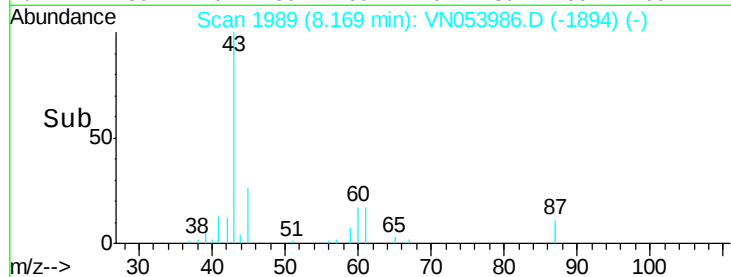
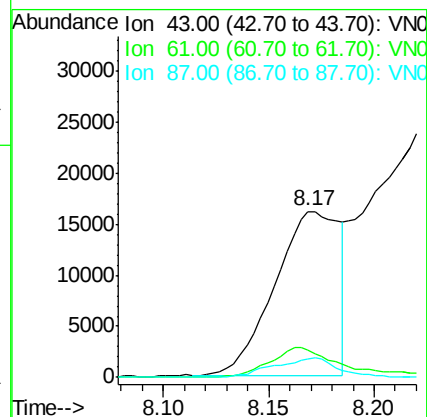
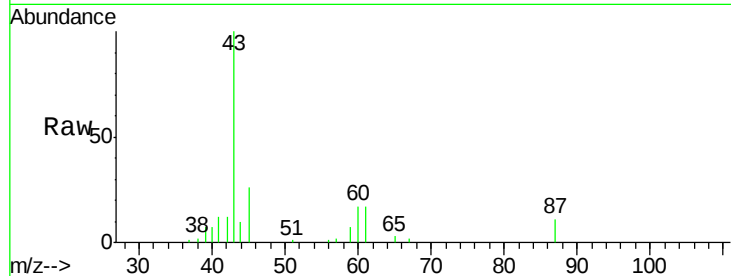
Tot Ion: 43 Resp: 34315

Ion Ratio Lower Upper

43 100

61 20.7 17.4 26.0

87 11.6 11.5 17.3



#50

Toluene-d8

Concen: 52.770 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053986.D

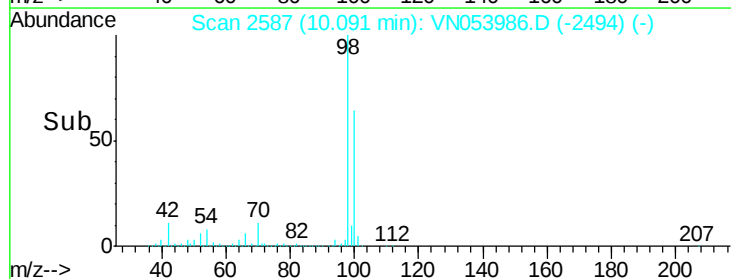
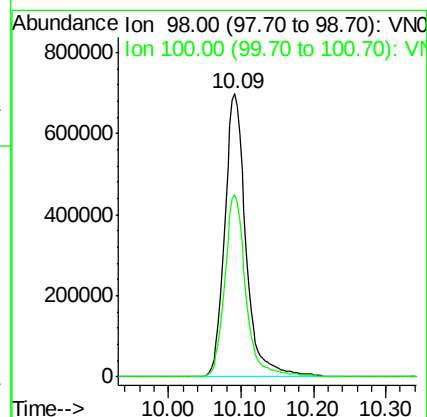
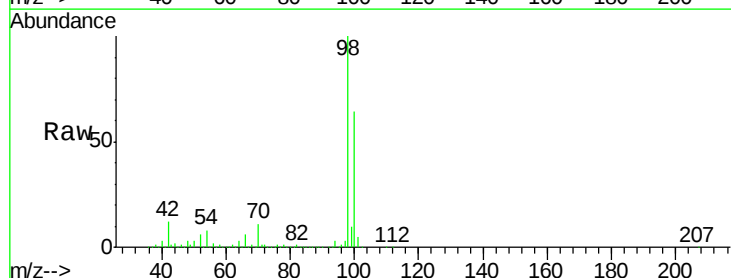
Acq: 27 Feb 2019 23:18

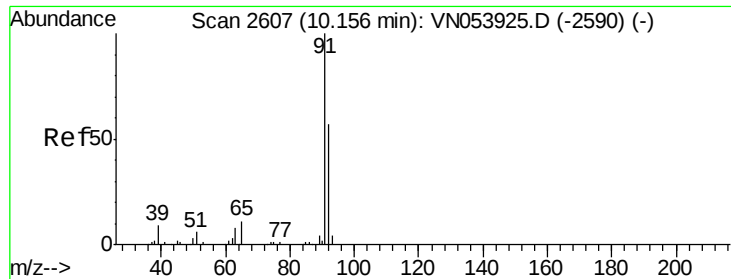
Tgt Ion: 98 Resp: 1421012

Ion Ratio Lower Upper

98 100

100 63.9 51.9 77.9





#52

Toluene

Concen: 1.067 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Instrument :

MSVOA\_N

ClientSampleId :

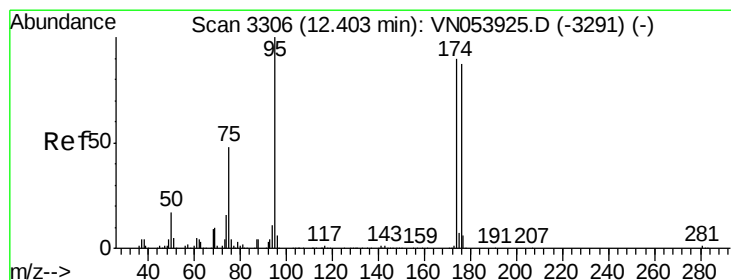
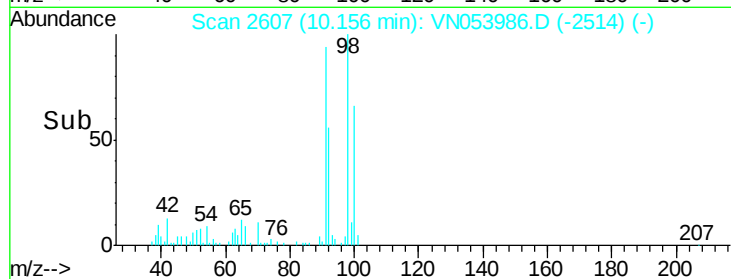
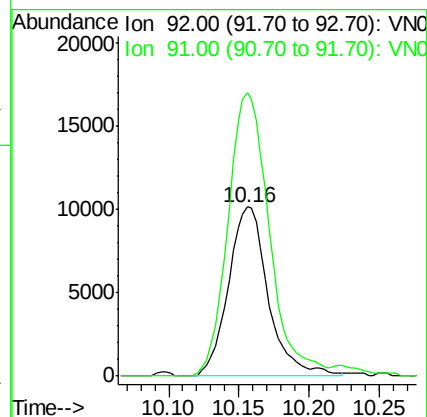
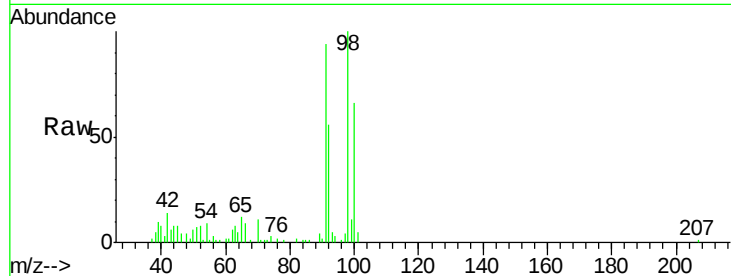
SR-11-S

Tot Ion: 92 Resp: 20086

Ion Ratio Lower Upper

92 100

91 173.1 138.4 207.6



#62

4-Bromofluorobenzene

Concen: 54.005 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

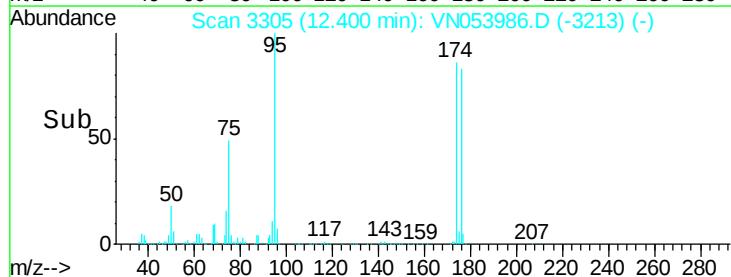
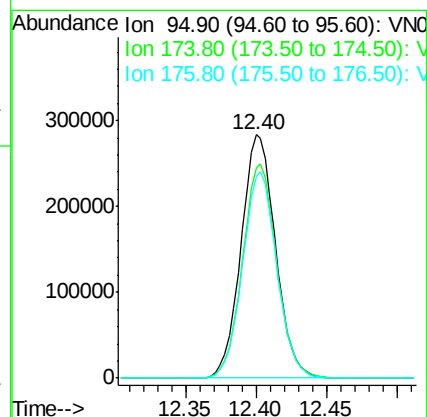
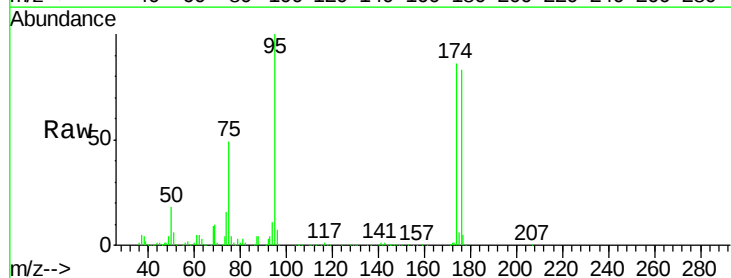
Tgt Ion: 95 Resp: 484520

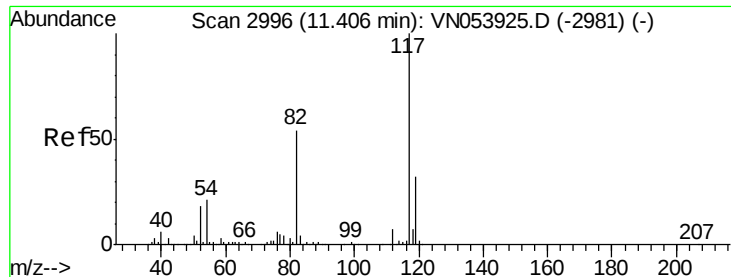
Ion Ratio Lower Upper

95 100

174 87.7 0.0 188.8

176 84.5 0.0 182.6

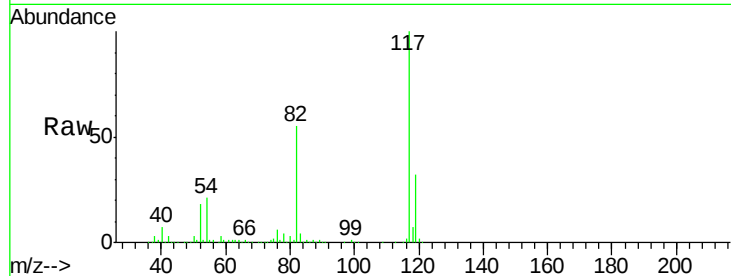




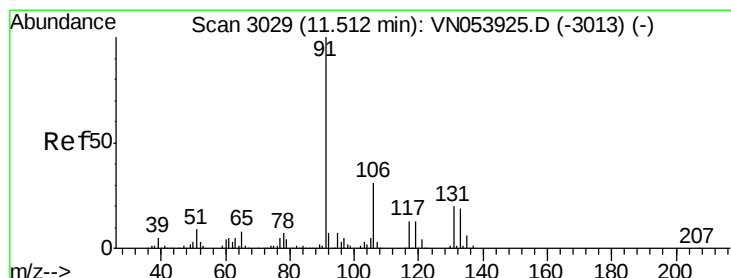
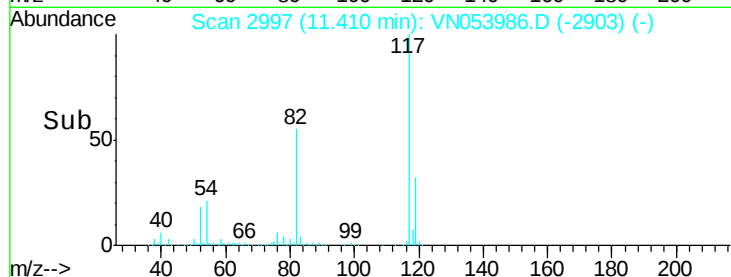
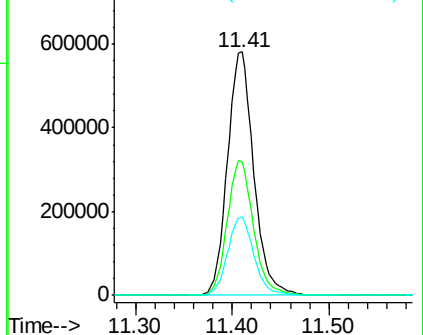
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053986.D  
Acq: 27 Feb 2019 23:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
SR-11-S

Tot Ion:117 Resp: 1097835  
Ion Ratio Lower Upper  
117 100  
82 54.7 41.4 62.2  
119 32.1 25.3 37.9

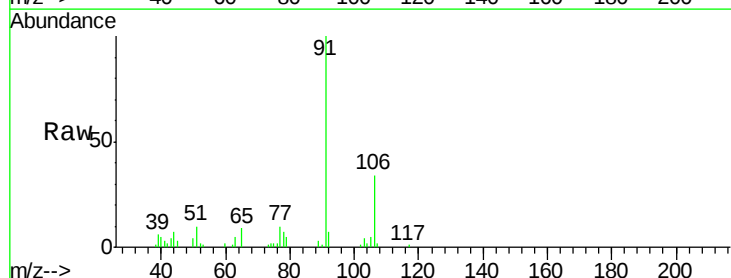


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

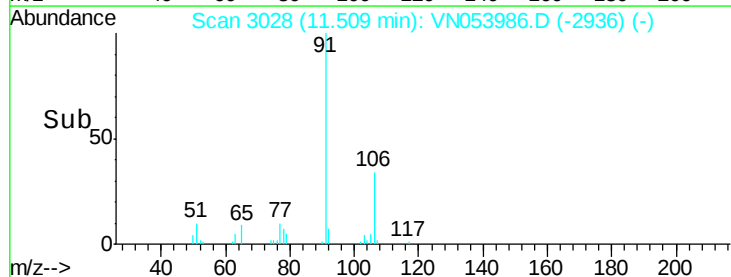
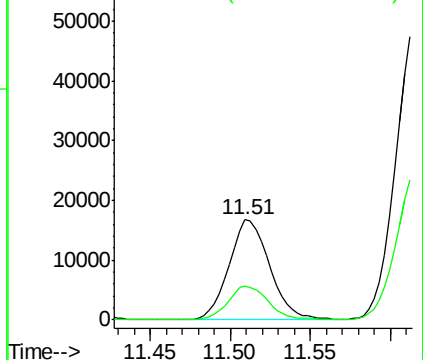


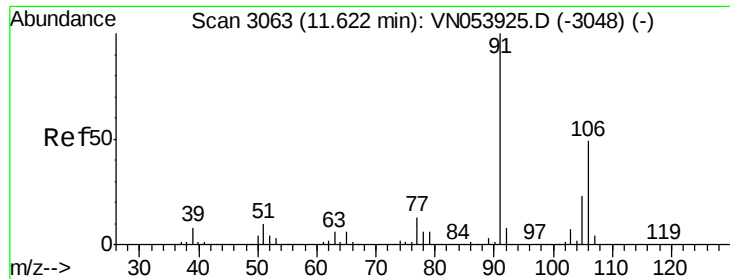
#67  
Ethyl Benzene  
Concen: 0.753 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN053986.D  
Acq: 27 Feb 2019 23:18

Tgt Ion: 91 Resp: 29267  
Ion Ratio Lower Upper  
91 100  
106 33.6 25.2 37.8



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

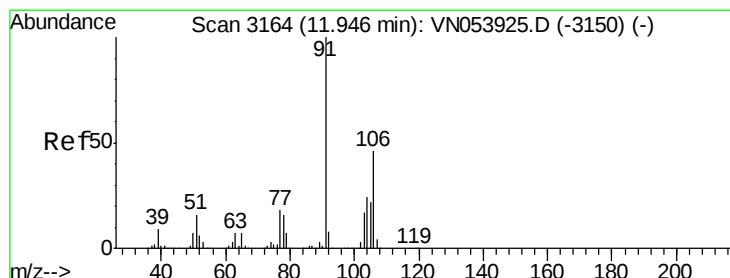
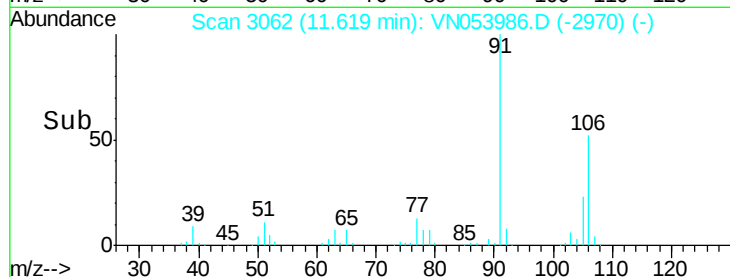
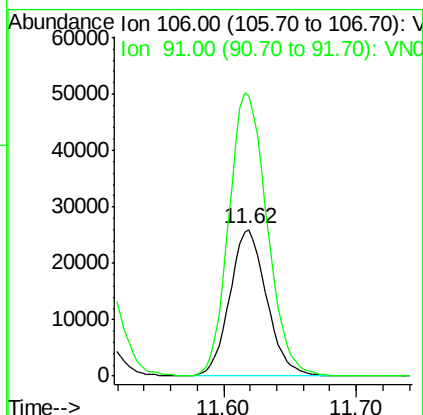
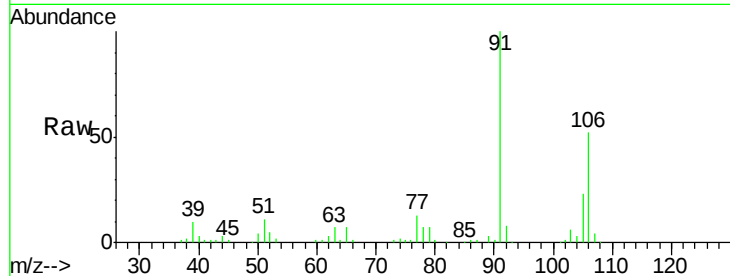




#68  
m/p-Xylenes  
Concen: 3.431 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN053986.D  
Acq: 27 Feb 2019 23:18

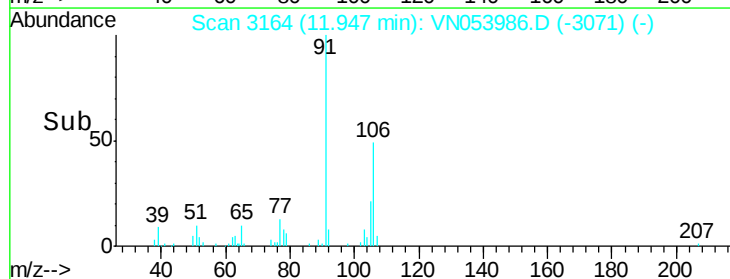
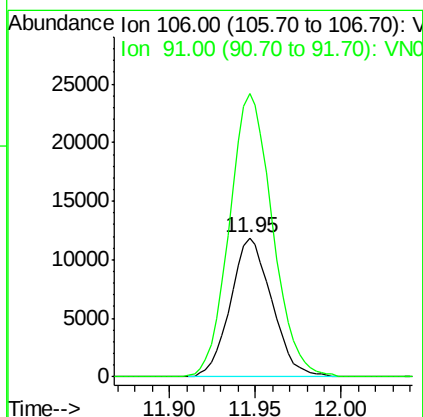
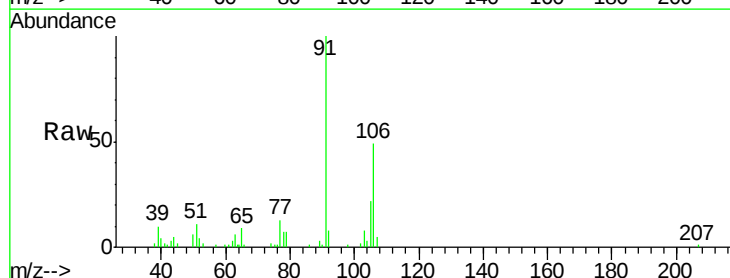
Instrument :  
MSVOA\_N  
ClientSampled :  
SR-11-S

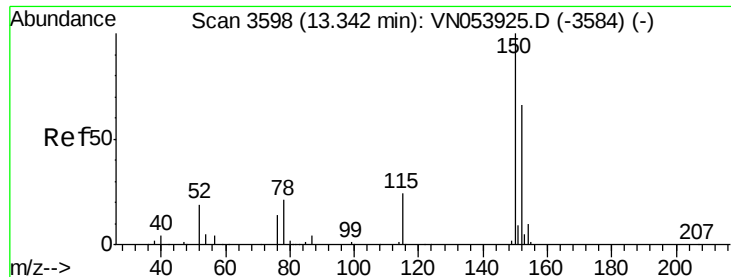
Tot Ion:106 Resp: 50291  
Ion Ratio Lower Upper  
106 100  
91 200.2 158.9 238.3



#69  
o-Xylene  
Concen: 1.378 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN053986.D  
Acq: 27 Feb 2019 23:18

Tgt Ion:106 Resp: 19843  
Ion Ratio Lower Upper  
106 100  
91 212.7 106.0 318.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Instrument :

MSVOA\_N

ClientSampled :

SR-11-S

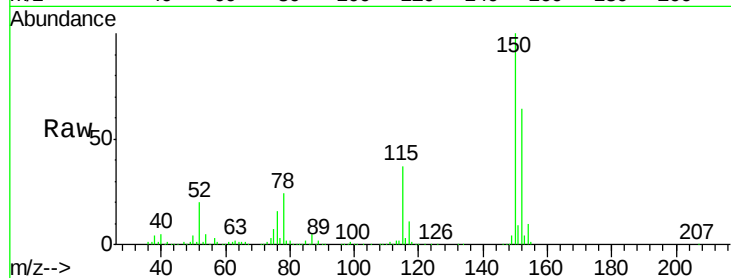
Tot Ion:152 Resp: 432767

Ion Ratio Lower Upper

152 100

115 58.9 27.2 81.6

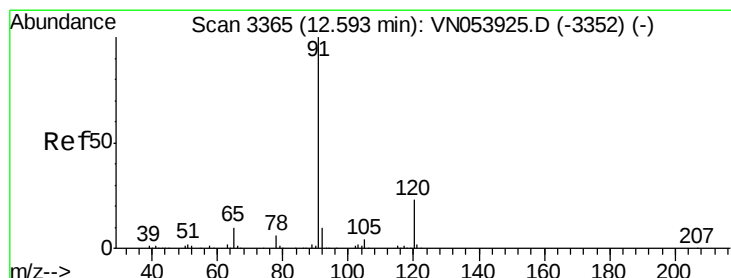
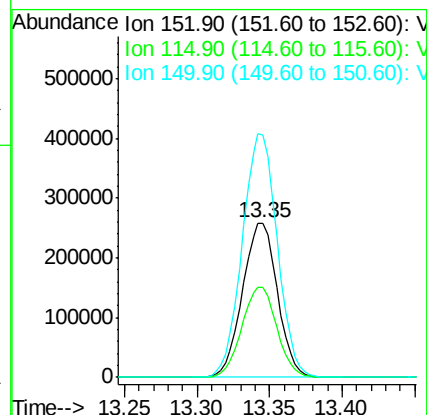
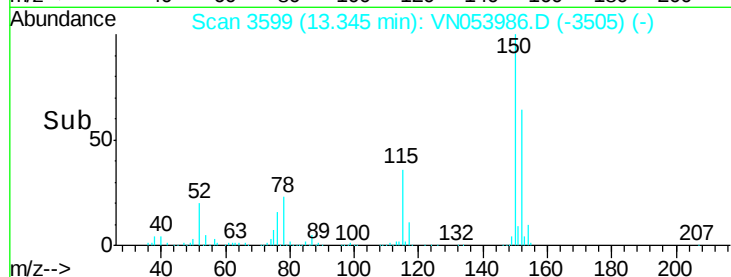
150 158.0 0.0 348.2



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



#78

n-propylbenzene

Concen: 0.607 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053986.D

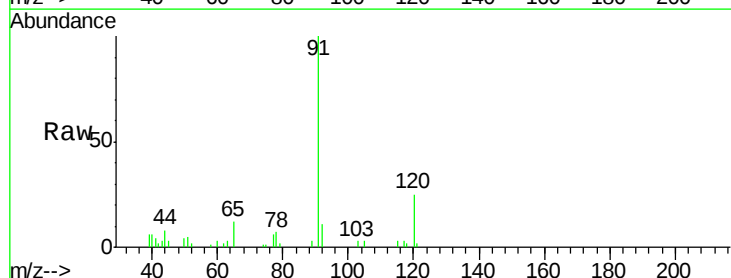
Acq: 27 Feb 2019 23:18

Tgt Ion: 91 Resp: 23262

Ion Ratio Lower Upper

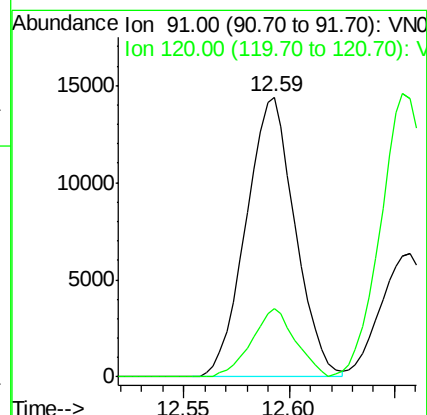
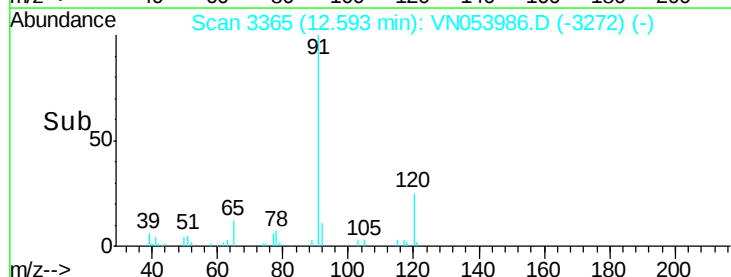
91 100

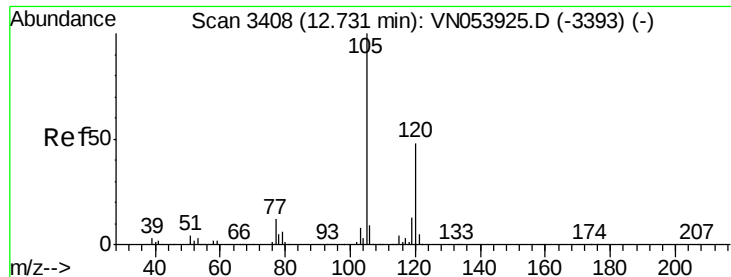
120 21.7 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

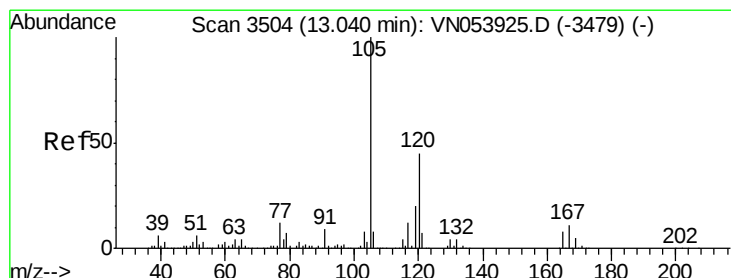
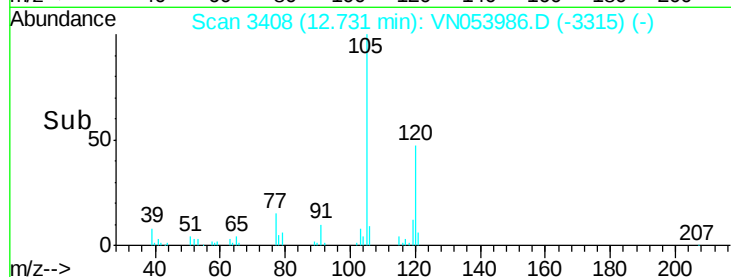
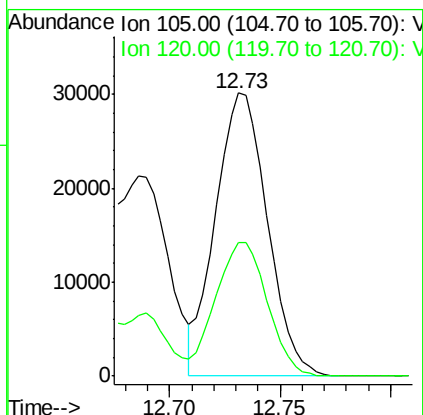
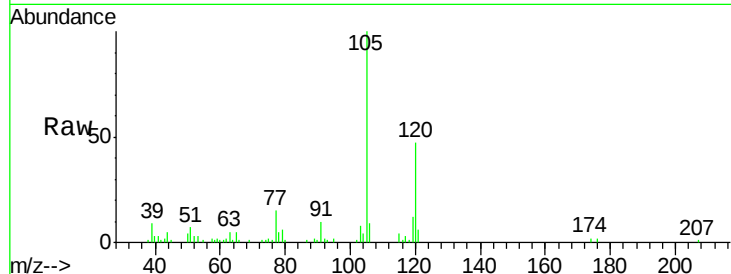




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.781 ug/l  
 RT: 12.73 min Scan# 3408  
 Delta R.T. 0.00 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

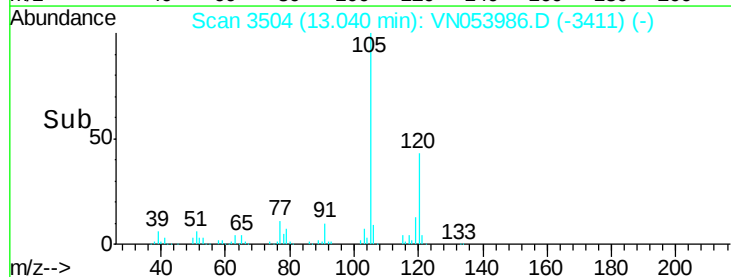
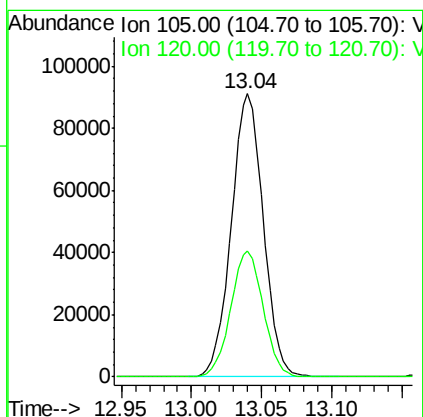
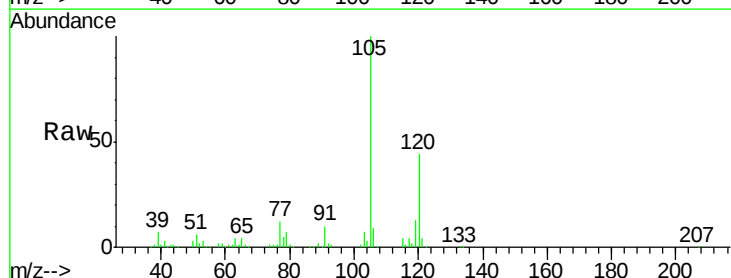
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 SR-11-S

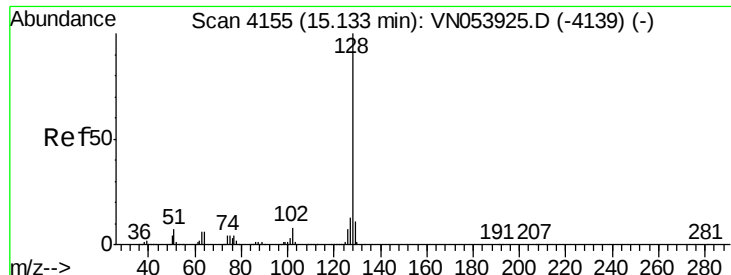
Tot Ion:105 Resp: 49121  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 25.1 75.2



#84  
 1,2,4-Trimethylbenzene  
 Concen: 5.255 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN053986.D  
 Acq: 27 Feb 2019 23:18

Tgt Ion:105 Resp: 144690  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 23.2 69.5





#95

Naphthalene

Concen: 4.305 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053986.D

Acq: 27 Feb 2019 23:18

Instrument :

MSVOA\_N

ClientSampleId :

SR-11-S

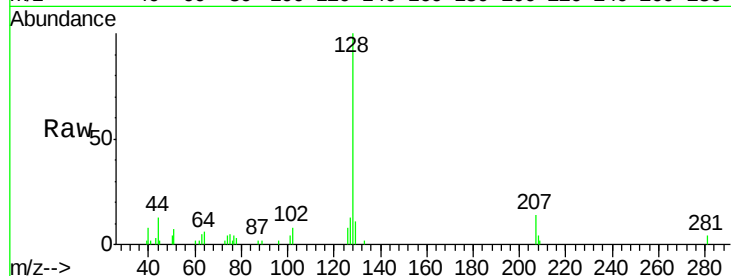
Tot Ion:128 Resp: 20019

Ion Ratio Lower Upper

128 100

127 12.2 10.2 15.2

129 10.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

