

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121024\  
 Data File : VX044208.D  
 Acq On : 10 Dec 2024 15:13  
 Operator : JC/MD  
 Sample : P5224-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 NP-WS-001

Quant Time: Dec 11 01:34:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

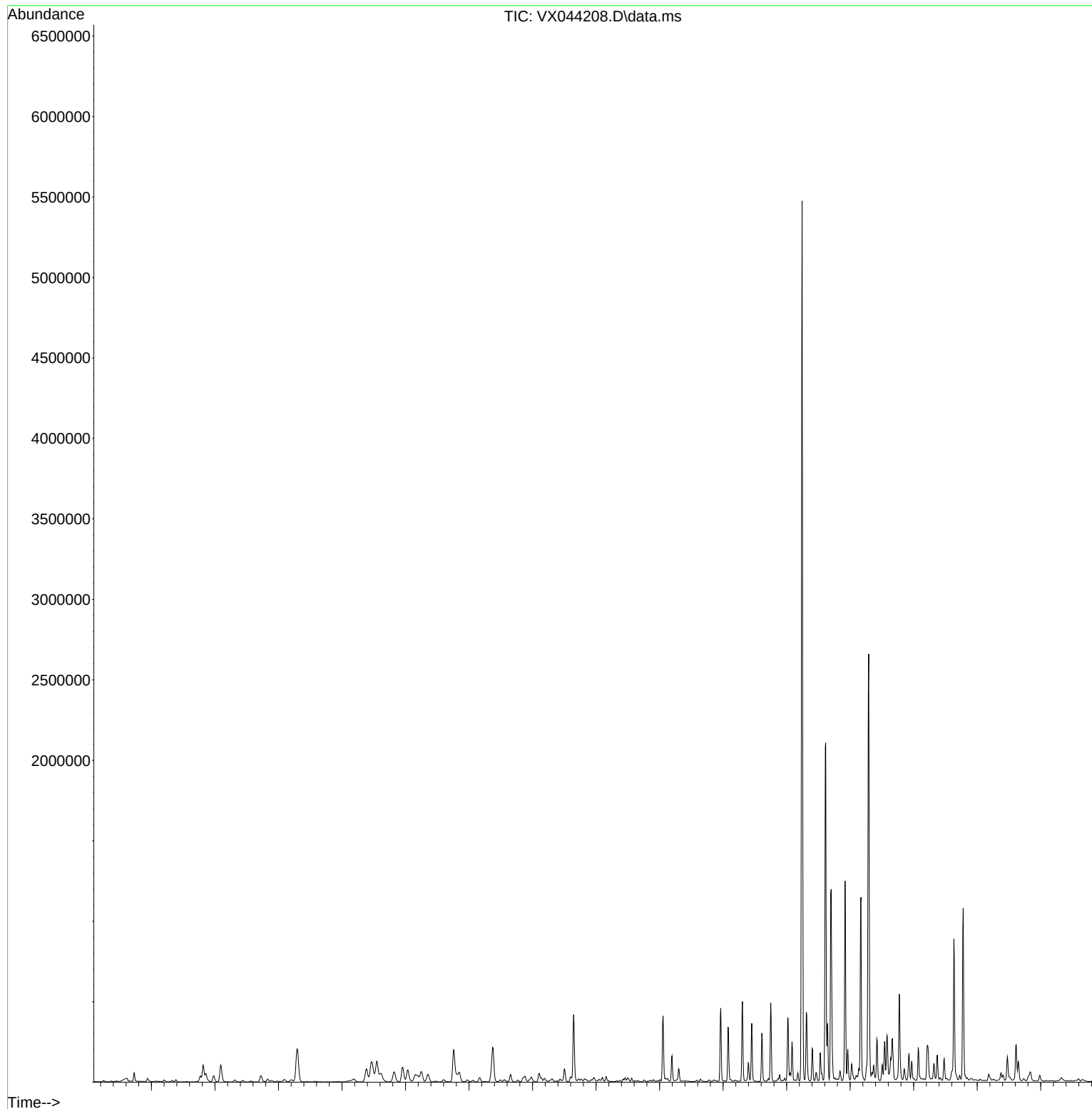
| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 5.550          | 168  | 106419     | 50.000   | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene     | 6.757          | 114  | 197008     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 173984     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 75903      | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.958          | 65   | 90666      | 49.673   | ug/l   | 0.01     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 99.340%  |        |          |
| 35) Dibromofluoromethane    | 5.379          | 113  | 66489      | 47.232   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 94.460%  |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 242734     | 50.022   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 100.040% |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 84705      | 51.291   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 77 - 121 |      | Recovery = | 102.580% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        |          |
|                             |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol      | 2.983          | 59   | 47327      | 161.541  | ug/l   | 96       |
| 16) Acetone                 | 2.385          | 43   | 13675      | 16.312   | ug/l   | 90       |
| 19) Methyl tert-butyl Ether | 3.111          | 73   | 5063       | 1.137    | ug/l # | 1        |
| 20) Methylene Chloride      | 2.782          | 84   | 727        | 0.511    | ug/l # | 51       |
| 25) 2-Butanone              | 4.586          | 43   | 8997       | 8.317    | ug/l # | 88       |
| 31) Cyclohexane             | 5.464          | 56   | 87047      | 42.789   | ug/l   | 97       |
| 39) Methylcyclohexane       | 7.378          | 83   | 90638      | 39.772   | ug/l   | 99       |
| 40) Benzene                 | 6.037          | 78   | 89982      | 16.468   | ug/l   | 98       |
| 52) Toluene                 | 8.726          | 92   | 5270       | 1.611    | ug/l   | 93       |
| 67) Ethyl Benzene           | 10.195         | 91   | 91265      | 14.095   | ug/l   | 99       |
| 68) m/p-Xylenes             | 10.299         | 106  | 18148      | 7.516    | ug/l   | 99       |
| 69) o-Xylene                | 10.640         | 106  | 3131       | 1.328    | ug/l   | 99       |
| 73) Isopropylbenzene        | 10.963         | 105  | 228973     | 39.244   | ug/l   | 99       |
| 78) n-propylbenzene         | 11.305         | 91   | 298849     | 45.861   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 149237     | 31.090   | ug/l   | 97       |
| 83) tert-Butylbenzene       | 11.713         | 119  | 4697       | 0.987    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 204034     | 42.694   | ug/l   | 99       |
| 85) sec-Butylbenzene        | 11.890         | 105  | 17843      | 3.061    | ug/l   | 82       |
| 89) n-Butylbenzene          | 12.310         | 91   | 51143      | 12.250   | ug/l # | 12       |
| 95) Naphthalene             | 13.774         | 128  | 309574     | 57.020   | ug/l   | 98       |
| -----                       |                |      |            |          |        |          |

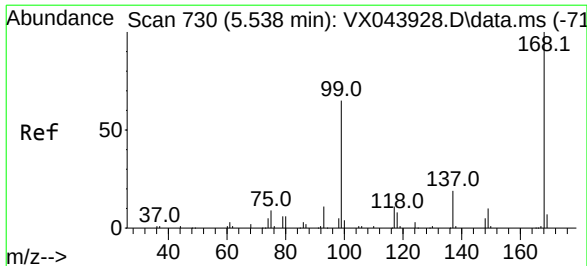
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121024\  
Data File : VX044208.D  
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Operator : JC/MD  
Sample : P5224-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
NP-WS-001

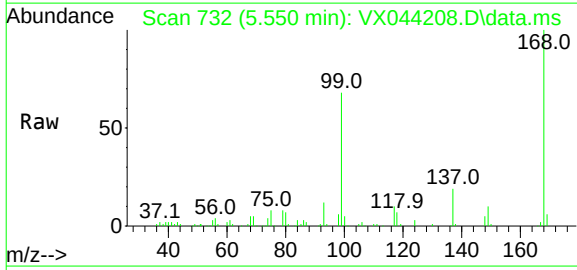
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration



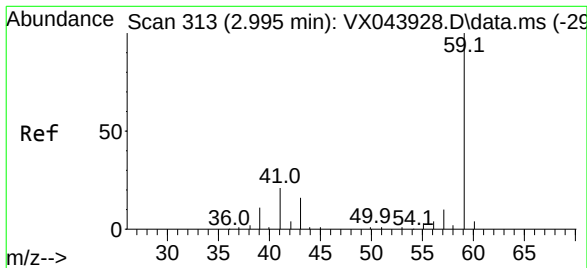
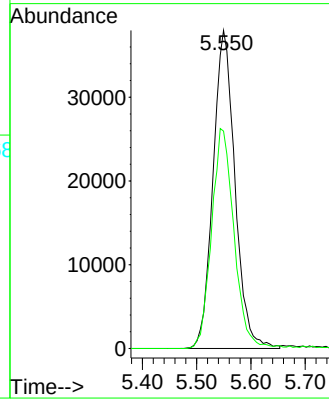
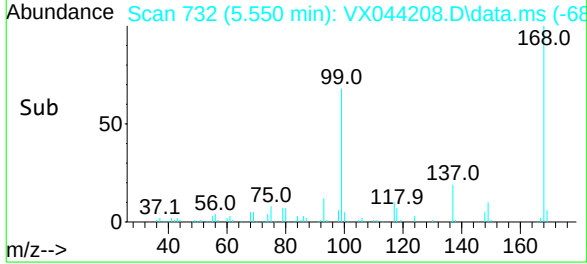


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 730  
Delta R.T. 0.012 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

Instrument :  
MSVOA\_X  
ClientSampleId :  
NP-WS-001

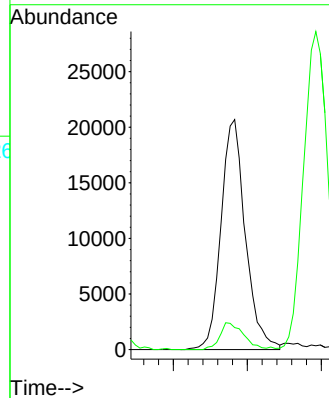
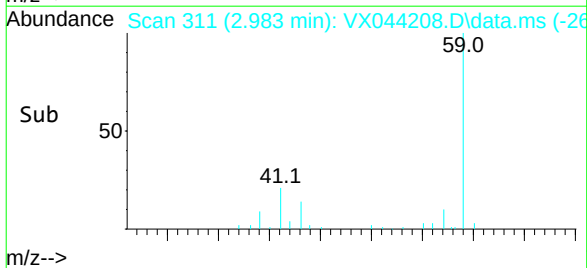
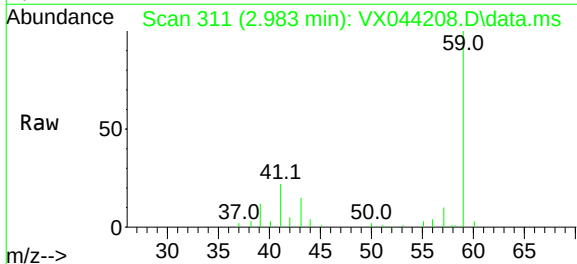


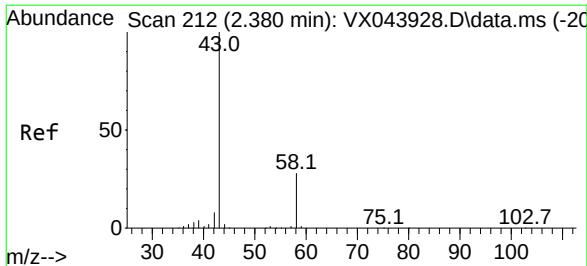
Tgt Ion:168 Resp: 106419  
Ion Ratio Lower Upper  
168 100  
99 68.3 51.8 77.8



#11  
Tert butyl alcohol  
Concen: 161.541 ug/l  
RT: 2.983 min Scan# 311  
Delta R.T. -0.013 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

Tgt Ion: 59 Resp: 47327  
Ion Ratio Lower Upper  
59 100  
57 11.3 7.9 11.9





#16

Acetone

Concen: 16.312 ug/l

RT: 2.385 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

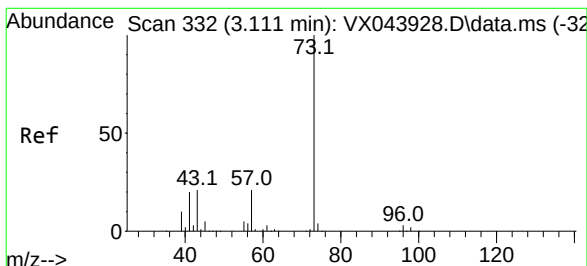
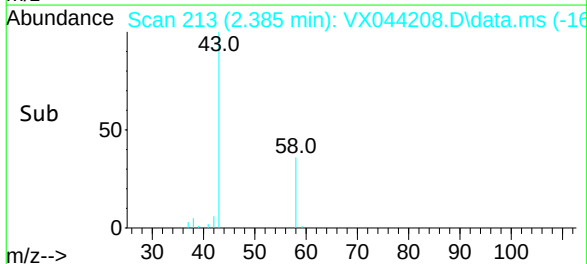
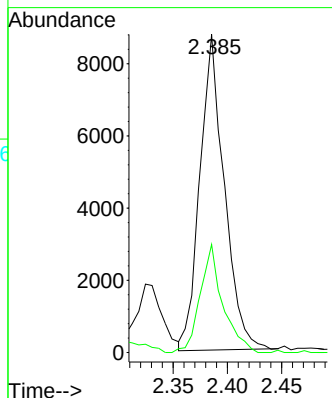
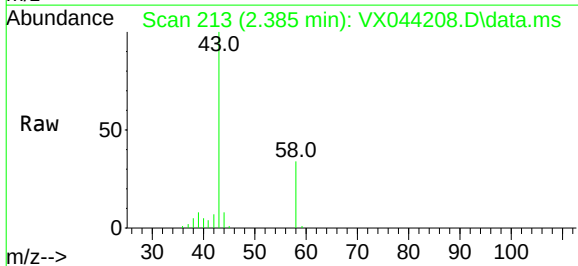
NP-WS-001

Tgt Ion: 43 Resp: 13675

Ion Ratio Lower Upper

43 100

58 33.7 22.7 34.1



#19

Methyl tert-butyl Ether

Concen: 1.137 ug/l

RT: 3.111 min Scan# 332

Delta R.T. -0.000 min

Lab File: VX044208.D

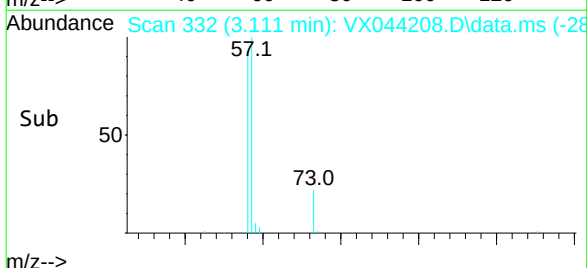
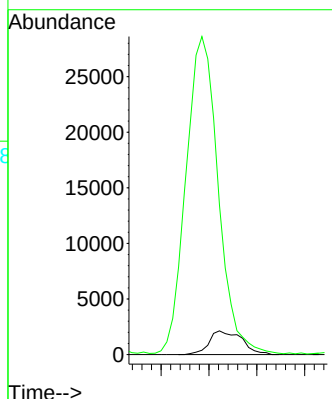
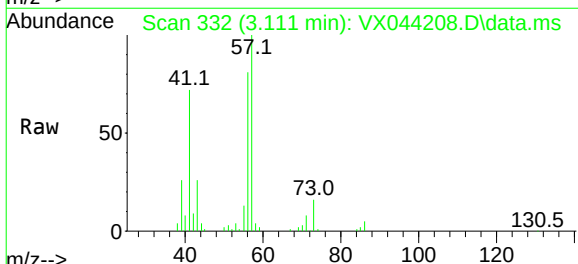
Acq: 10 Dec 2024 15:13

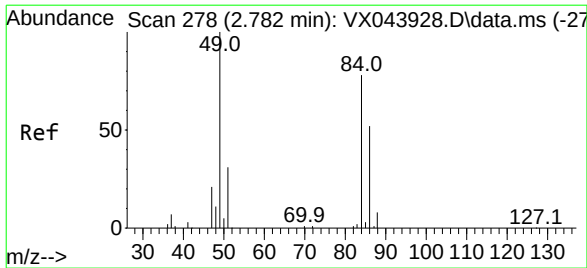
Tgt Ion: 73 Resp: 5063

Ion Ratio Lower Upper

73 100

57 625.5 17.0 25.6#

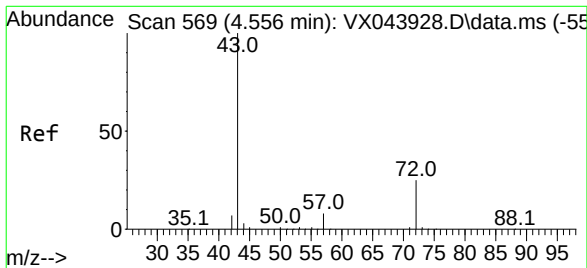
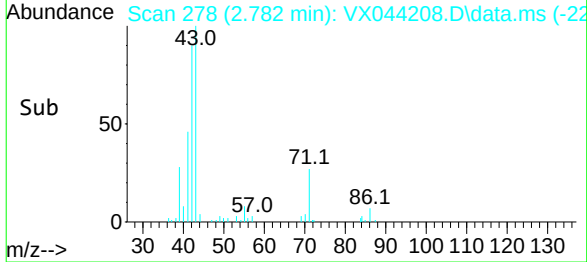
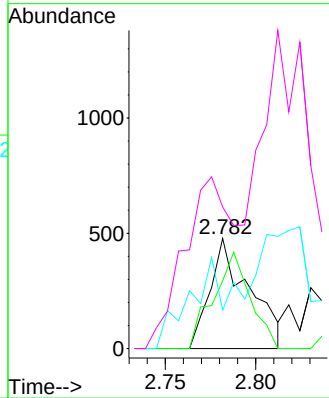
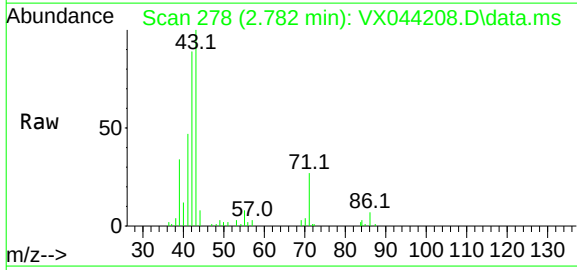




#20  
Methylene Chloride  
Concen: 0.511 ug/l  
RT: 2.782 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

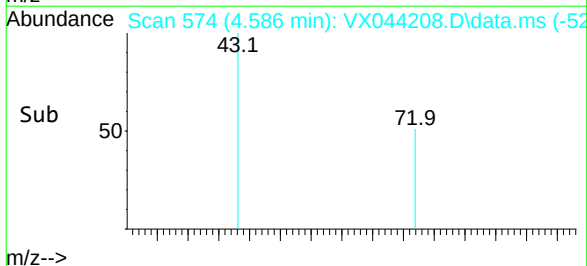
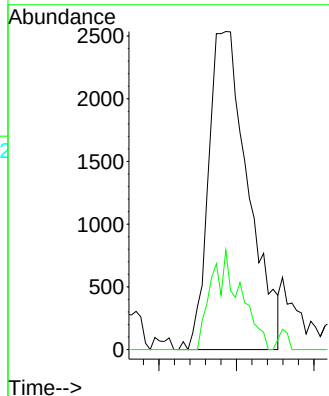
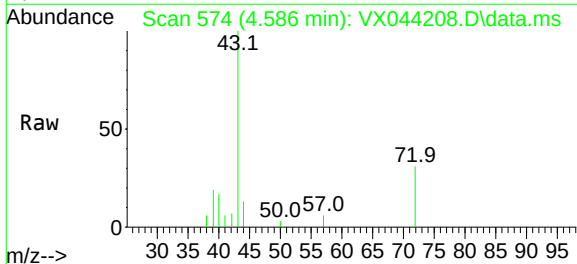
Instrument :  
MSVOA\_X  
ClientSampleId :  
NP-WS-001

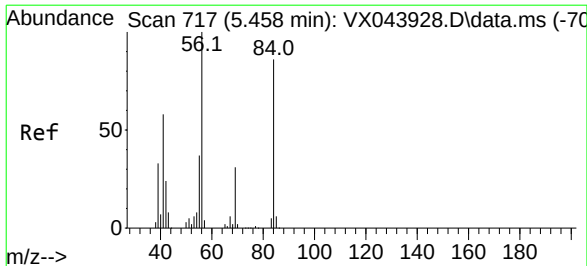
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 727    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 61.5  | 102.7 | 154.1# |
| 51       | 9.8   | 31.7  | 47.5#  |
| 86       | 40.0  | 53.9  | 80.9#  |



#25  
2-Butanone  
Concen: 8.317 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.030 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8997  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 31.3  | 20.2  | 30.2# |





#31

Cyclohexane

Concen: 42.789 ug/l

RT: 5.464 min Scan# 717

Delta R.T. 0.006 min

Lab File: VX044208.D

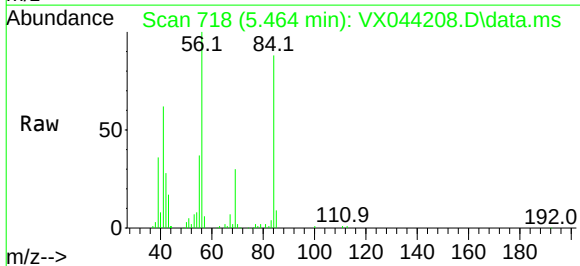
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Instrument :

MSVOA\_X

ClientSampleId :

NP-WS-001



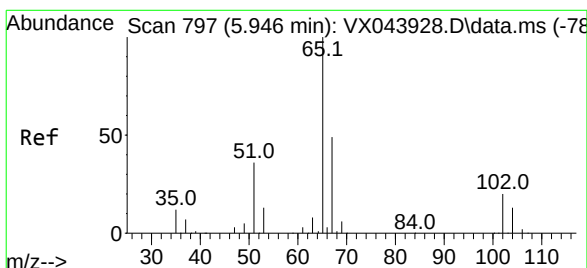
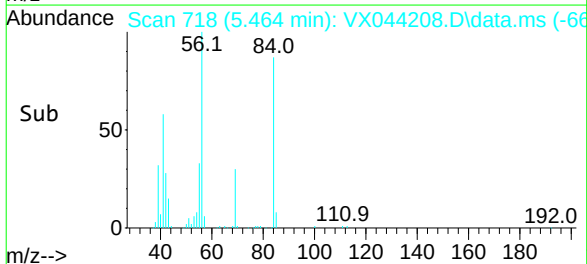
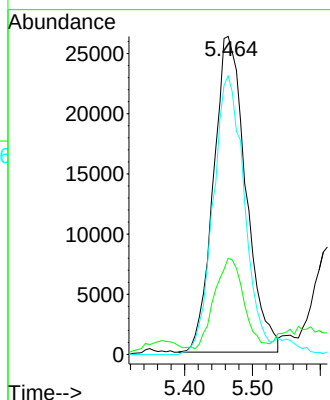
Tgt Ion: 56 Resp: 87047

Ion Ratio Lower Upper

56 100

69 27.7 24.7 37.1

84 88.2 68.7 103.1



#33

1,2-Dichloroethane-d4

Concen: 49.673 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.012 min

Lab File: VX044208.D

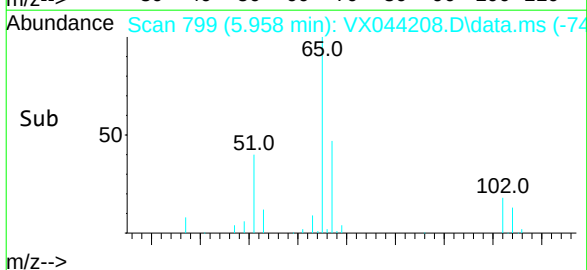
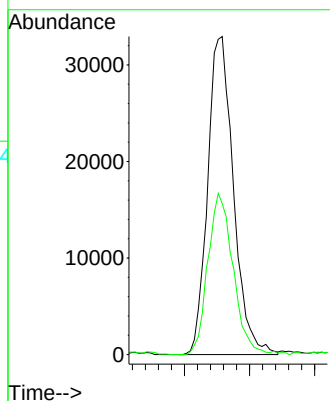
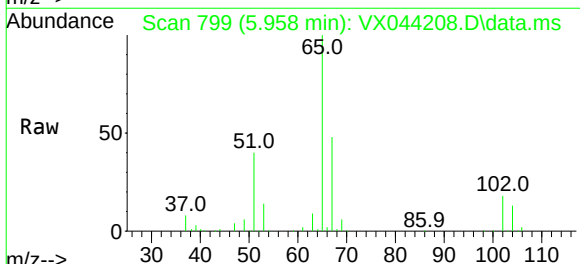
Acq: 10 Dec 2024 15:13

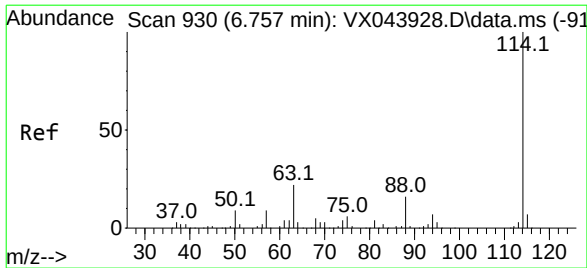
Tgt Ion: 65 Resp: 90666

Ion Ratio Lower Upper

65 100

67 49.4 0.0 100.8

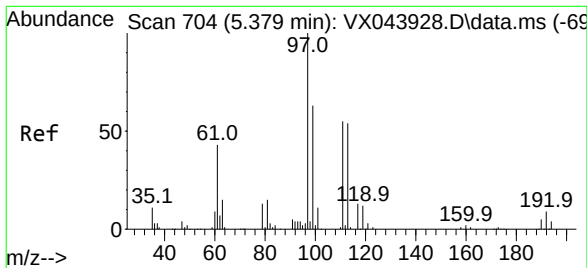
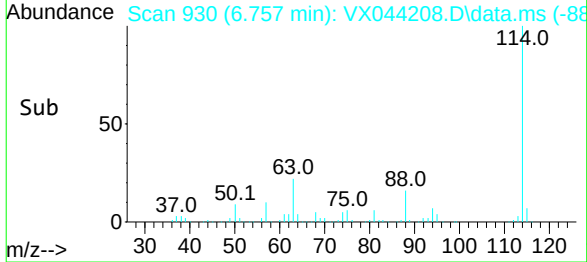
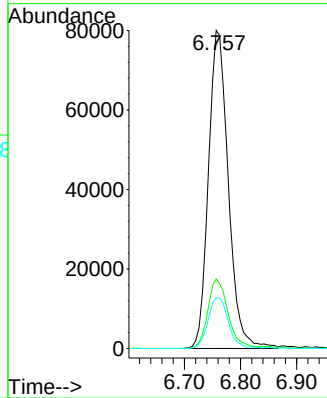
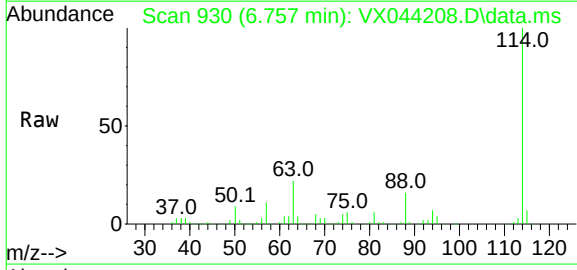




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.000 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

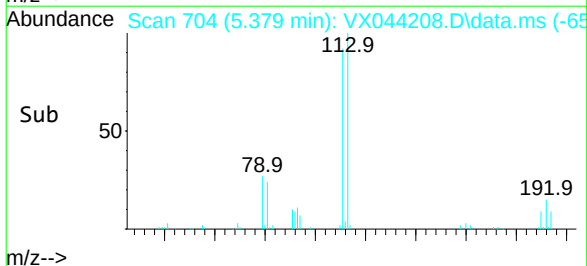
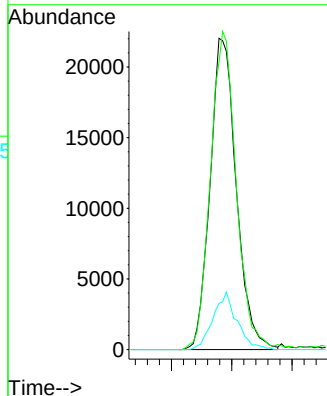
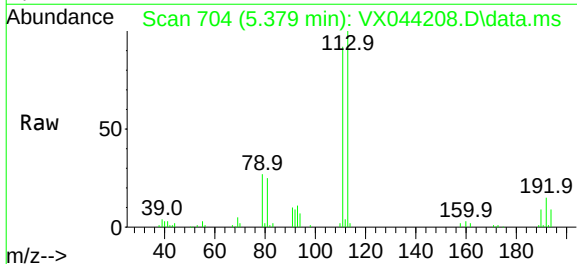
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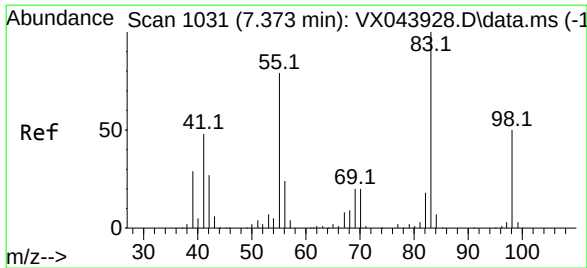
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 197008 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 21.9  | 0.0   | 44.0   |
| 88       | 15.9  | 0.0   | 32.4   |



#35  
Dibromofluoromethane  
Concen: 47.232 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX044208.D  
Acq: 10 Dec 2024 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 66489 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 100.6 | 81.0  | 121.4 |
| 192      | 16.8  | 13.0  | 19.6  |





#39

Methylcyclohexane

Concen: 39.772 ug/l

RT: 7.378 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

NP-WS-001

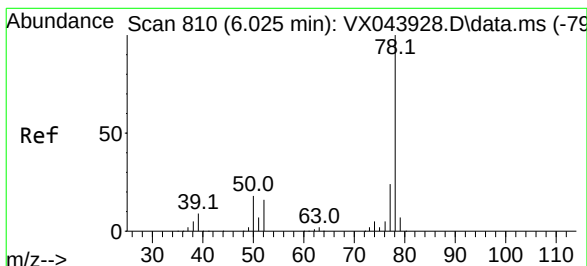
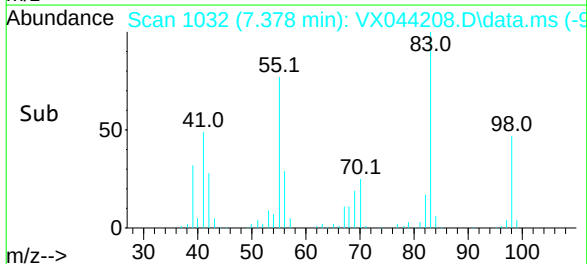
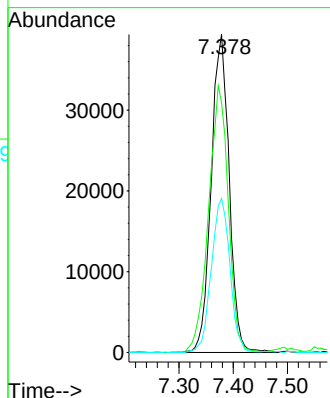
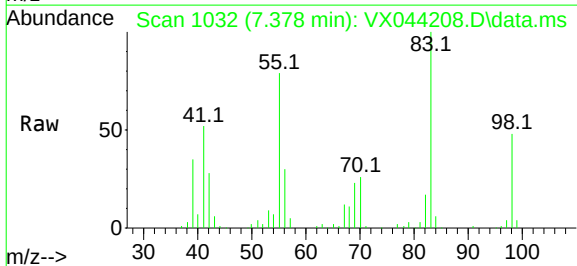
Tgt Ion: 83 Resp: 90638

Ion Ratio Lower Upper

83 100

55 78.4 63.1 94.7

98 48.5 40.0 60.0



#40

Benzene

Concen: 16.468 ug/l

RT: 6.037 min Scan# 812

Delta R.T. 0.012 min

Lab File: VX044208.D

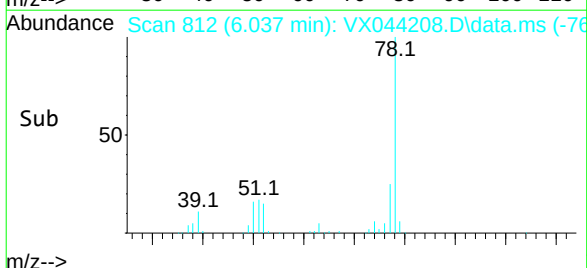
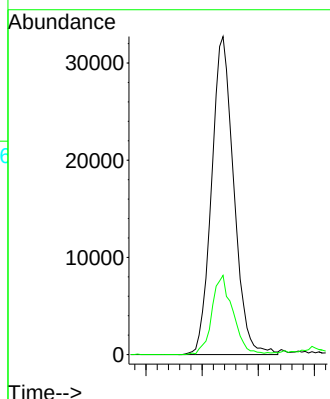
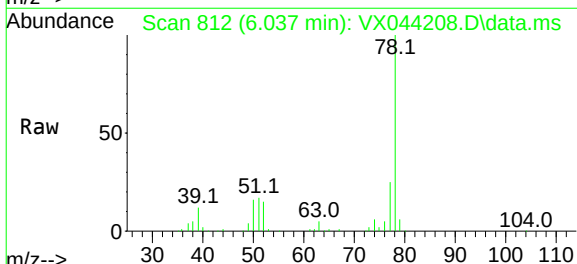
Acq: 10 Dec 2024 15:13

Tgt Ion: 78 Resp: 89982

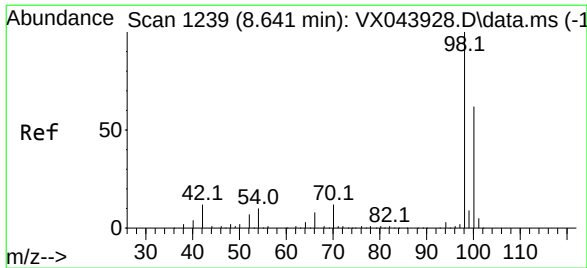
Ion Ratio Lower Upper

78 100

77 24.9 19.2 28.8







#50

Toluene-d8

Concen: 50.022 ug/l

RT: 8.647 min Scan# 12

Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

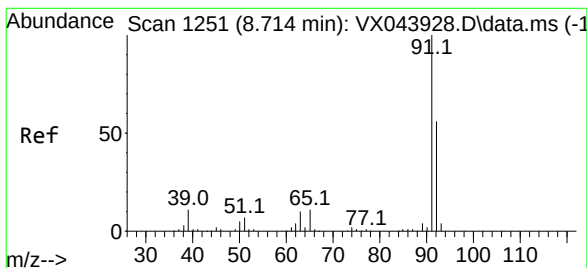
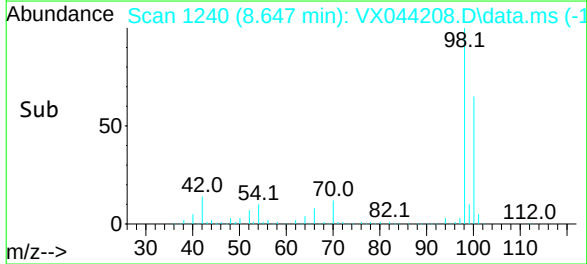
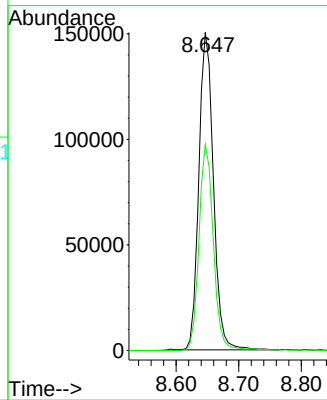
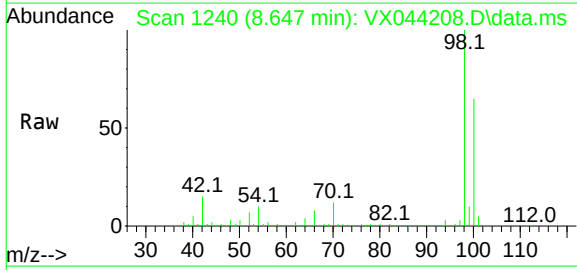
NP-WS-001

Tgt Ion: 98 Resp: 242734

Ion Ratio Lower Upper

98 100

100 64.6 52.6 79.0



#52

Toluene

Concen: 1.611 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.012 min

Lab File: VX044208.D

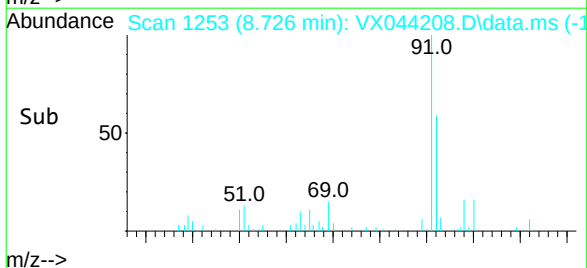
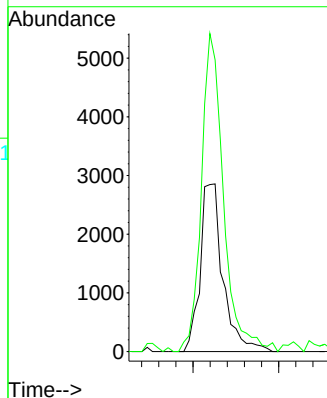
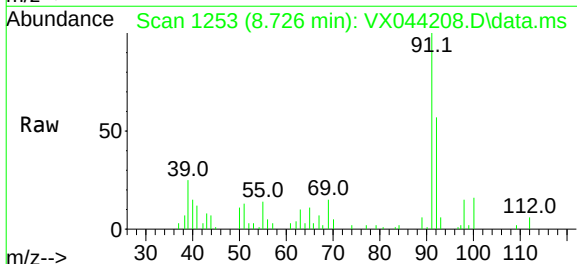
Acq: 10 Dec 2024 15:13

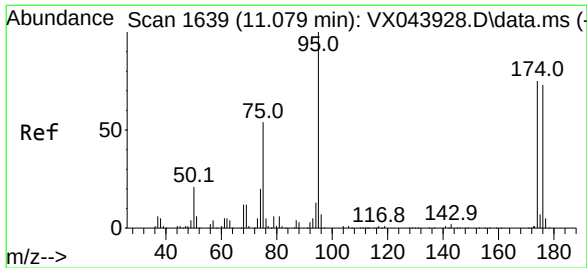
Tgt Ion: 92 Resp: 5270

Ion Ratio Lower Upper

92 100

91 184.4 139.7 209.5





#62

4-Bromofluorobenzene

Concen: 51.291 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX044208.D

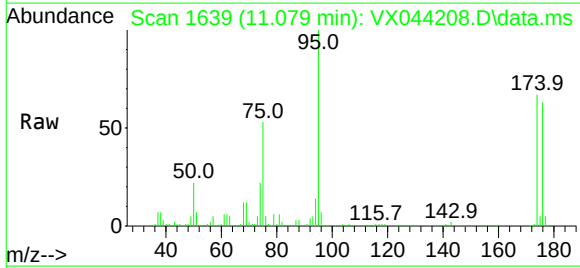
Acq: 10 Dec 2024 15:13

Instrument :

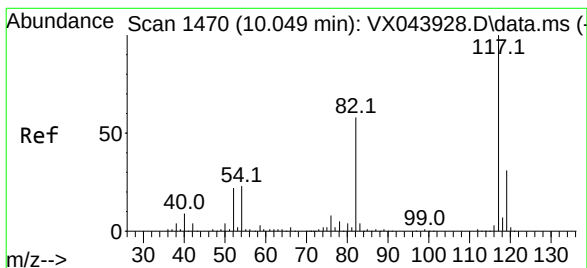
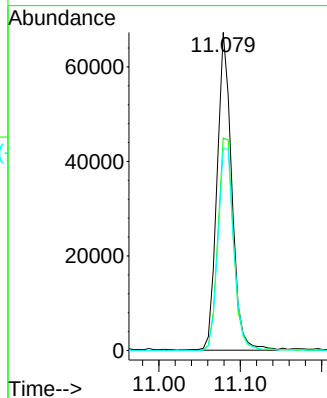
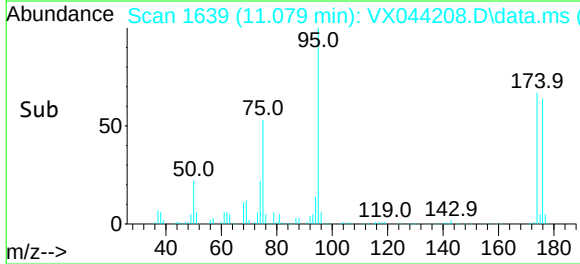
MSVOA\_X

ClientSampleId :

NP-WS-001



| Tgt Ion:  | 95    | Resp: | 84705 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 71.3  | 0.0   | 150.4 |
| 176       | 68.2  | 0.0   | 146.0 |



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

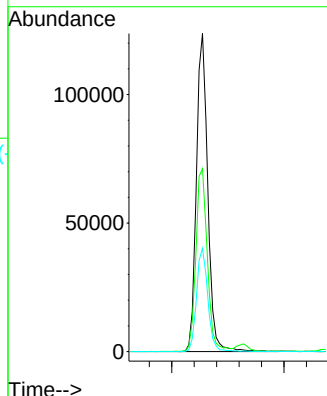
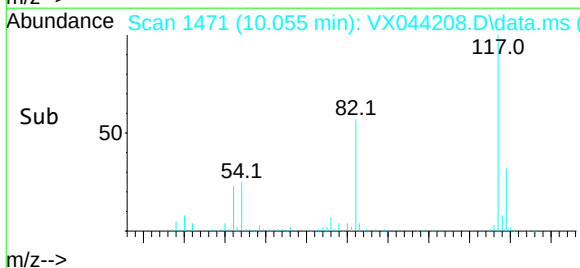
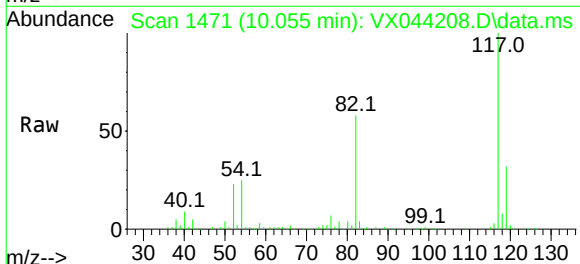
RT: 10.055 min Scan# 1471

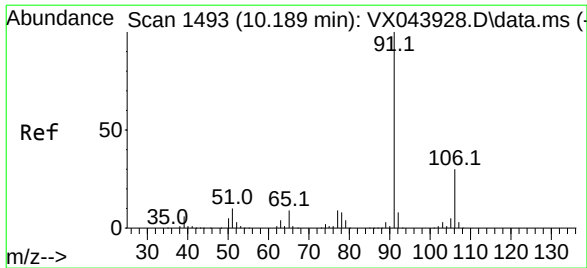
Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

| Tgt Ion:  | 117   | Resp: | 173984 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 57.5  | 46.4  | 69.6   |
| 119       | 32.5  | 24.6  | 37.0   |





#67

Ethyl Benzene

Concen: 14.095 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

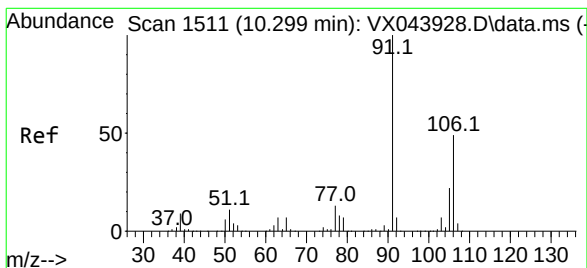
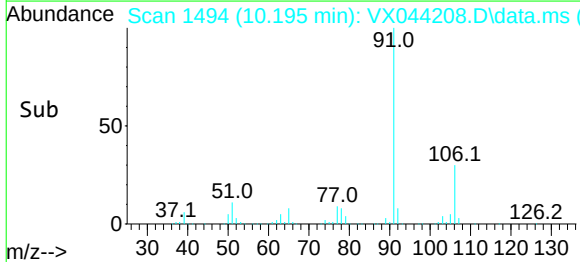
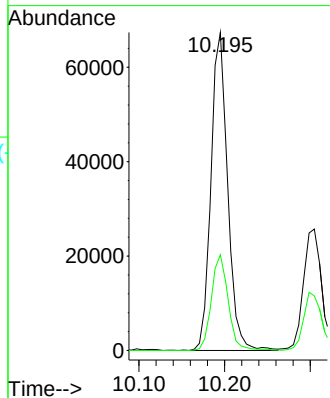
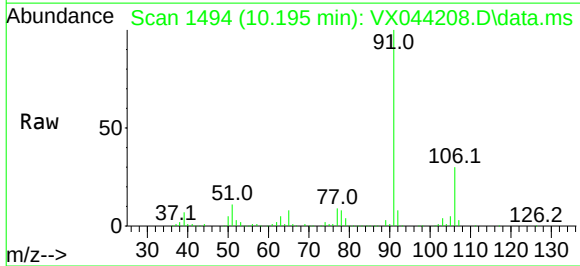
NP-WS-001

Tgt Ion: 91 Resp: 91265

Ion Ratio Lower Upper

91 100

106 30.1 23.6 35.4



#68

m/p-Xylenes

Concen: 7.516 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044208.D

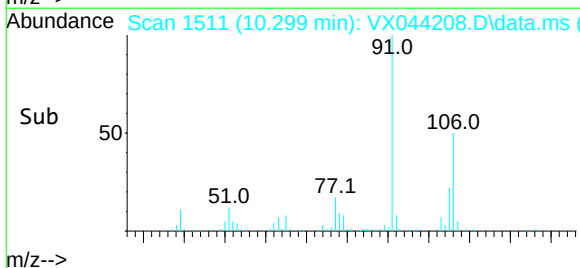
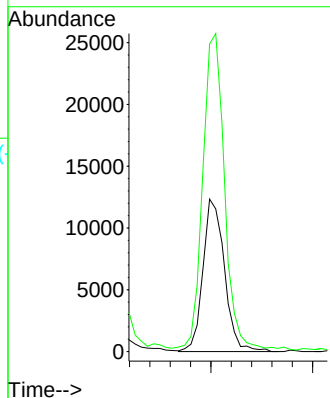
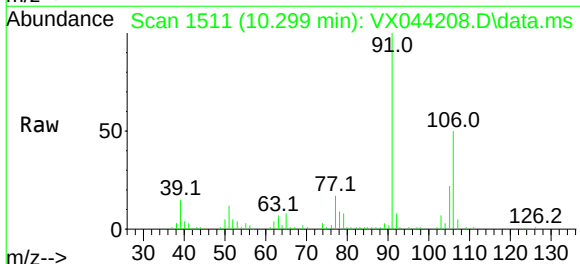
Acq: 10 Dec 2024 15:13

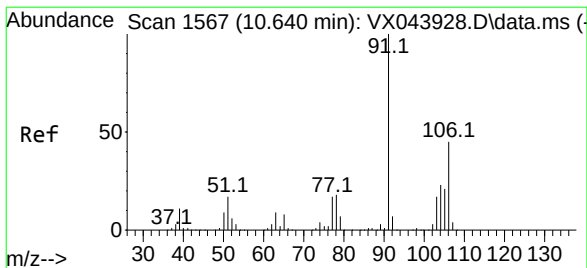
Tgt Ion: 106 Resp: 18148

Ion Ratio Lower Upper

106 100

91 211.3 168.1 252.1





#69

o-Xylene

Concen: 1.328 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

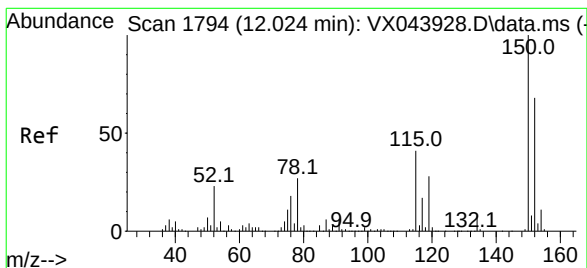
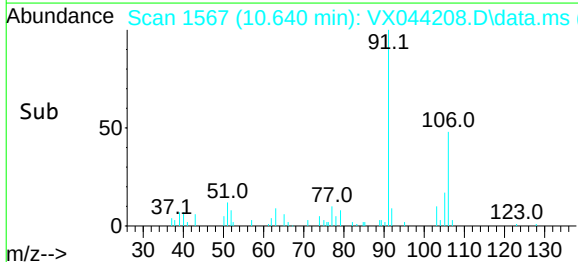
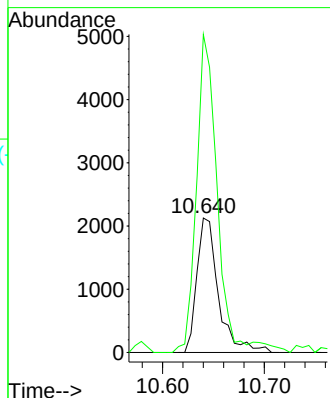
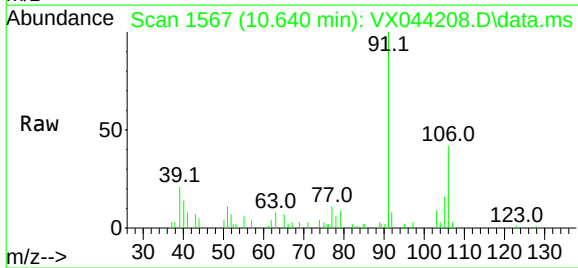
NP-WS-001

Tgt Ion:106 Resp: 3131

Ion Ratio Lower Upper

106 100

91 221.4 110.2 330.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

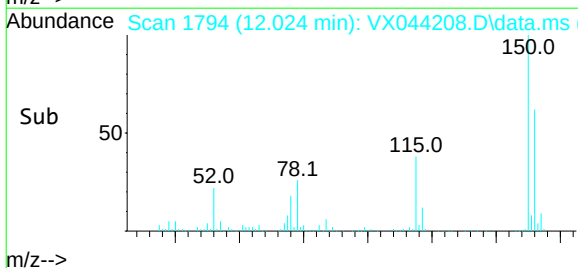
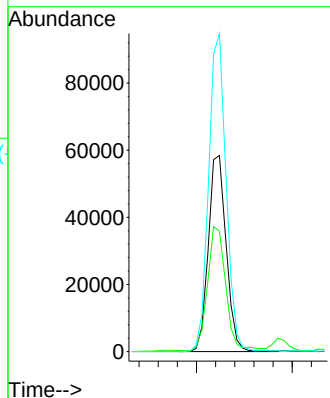
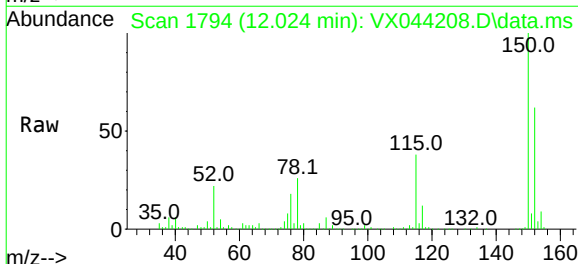
Tgt Ion:152 Resp: 75903

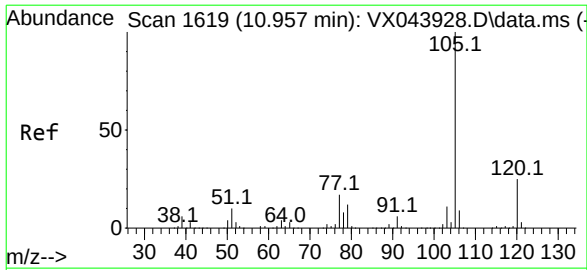
Ion Ratio Lower Upper

152 100

115 64.2 45.4 136.2

150 158.4 0.0 353.0





#73

Isopropylbenzene

Concen: 39.244 ug/l

RT: 10.963 min Scan# 1619

Delta R.T. 0.006 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

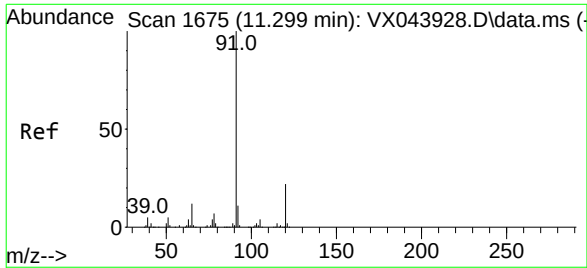
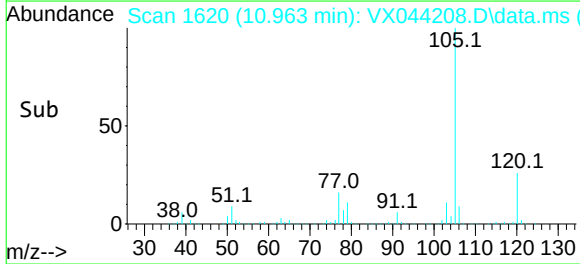
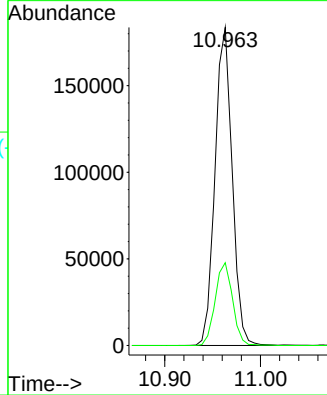
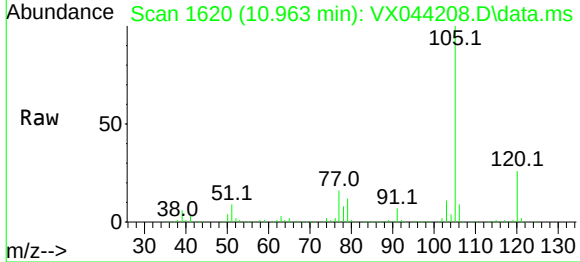
NP-WS-001

Tgt Ion:105 Resp: 228973

Ion Ratio Lower Upper

105 100

120 26.3 13.0 38.9



#78

n-propylbenzene

Concen: 45.861 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.006 min

Lab File: VX044208.D

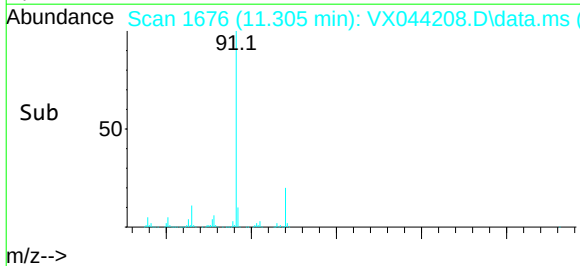
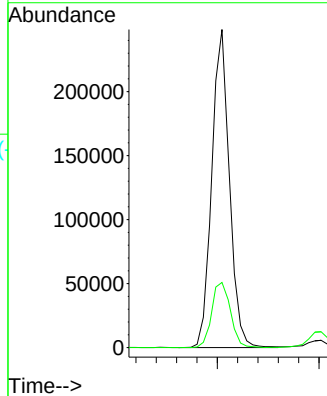
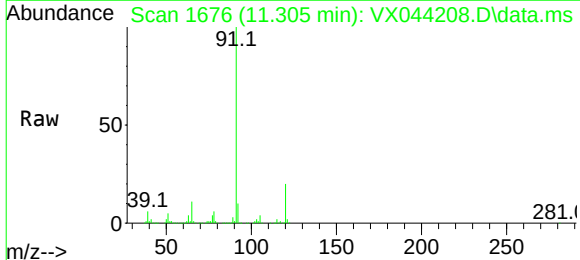
Acq: 10 Dec 2024 15:13

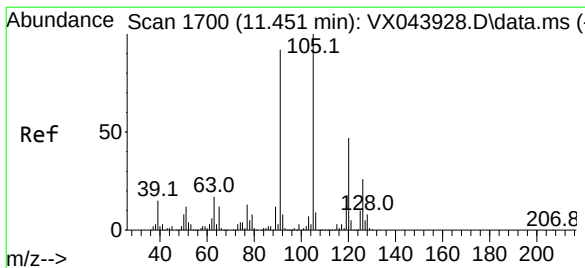
Tgt Ion: 91 Resp: 298849

Ion Ratio Lower Upper

91 100

120 21.8 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 31.090 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

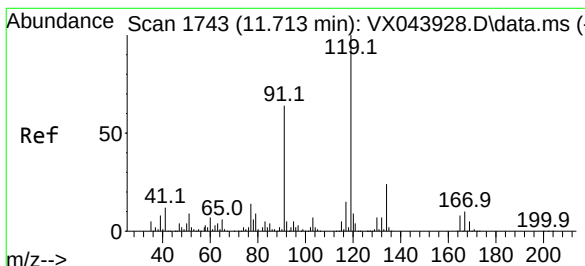
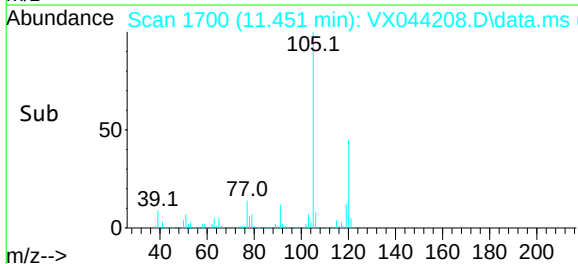
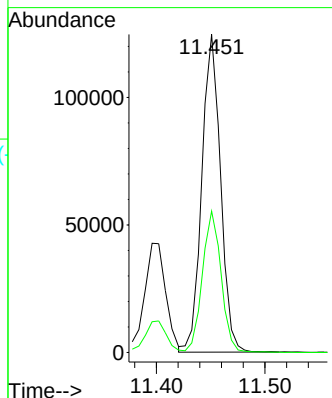
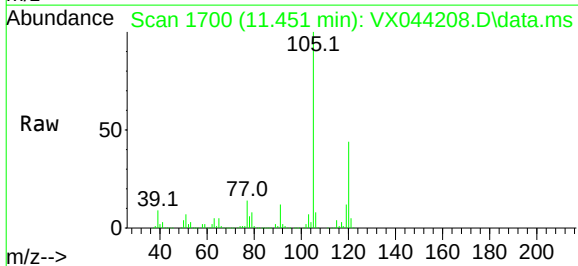
NP-WS-001

Tgt Ion:105 Resp: 149237

Ion Ratio Lower Upper

105 100

120 44.7 23.3 69.8



#83

tert-Butylbenzene

Concen: 0.987 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

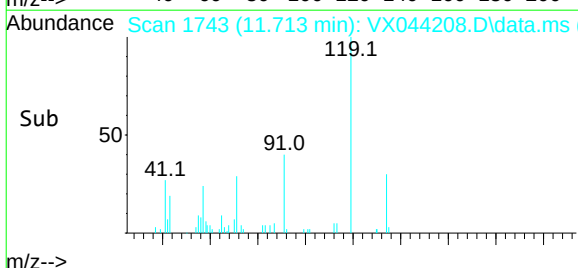
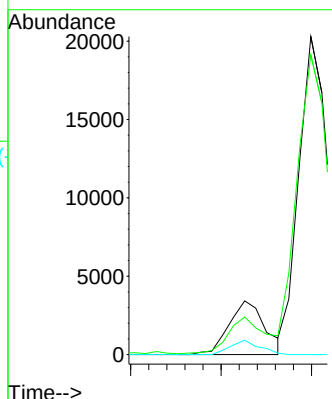
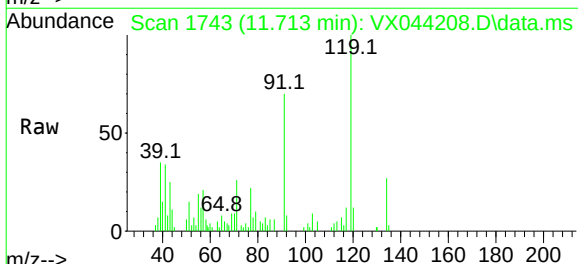
Tgt Ion:119 Resp: 4697

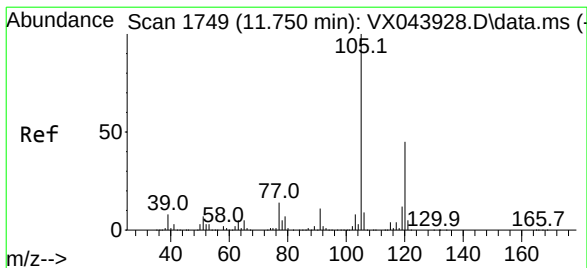
Ion Ratio Lower Upper

119 100

91 62.7 31.0 93.0

134 21.8 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 42.694 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

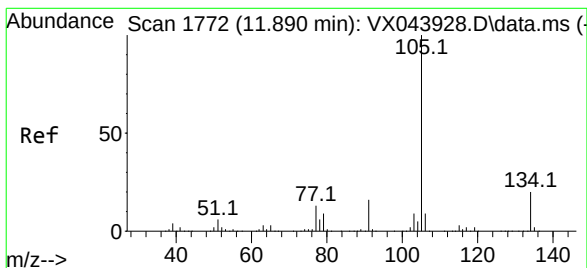
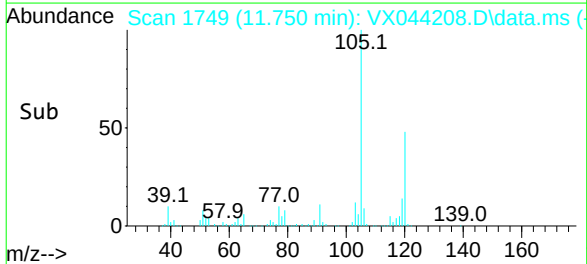
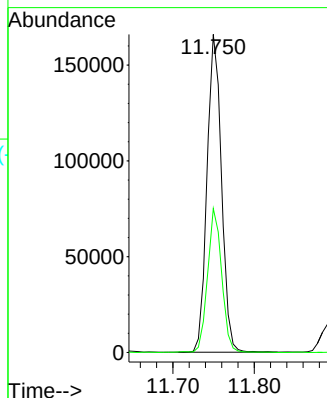
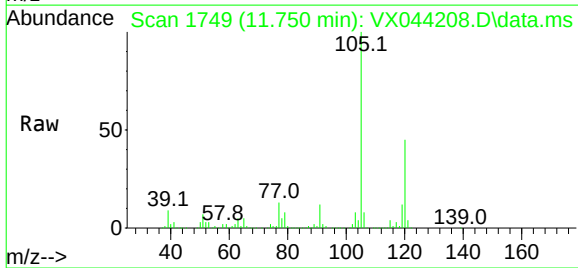
NP-WS-001

Tgt Ion:105 Resp: 204034

Ion Ratio Lower Upper

105 100

120 44.7 21.9 65.7



#85

sec-Butylbenzene

Concen: 3.061 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX044208.D

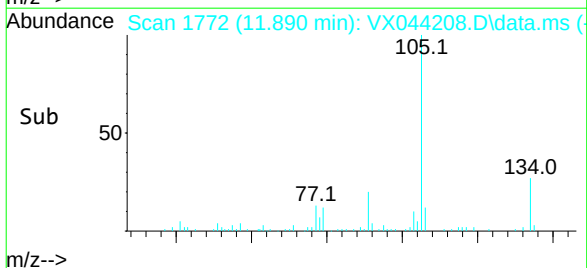
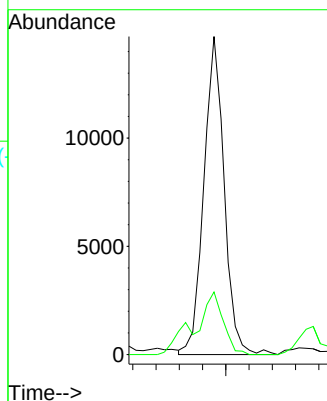
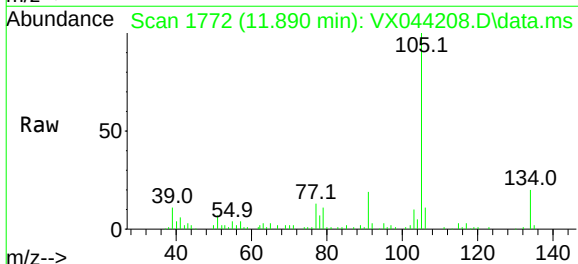
Acq: 10 Dec 2024 15:13

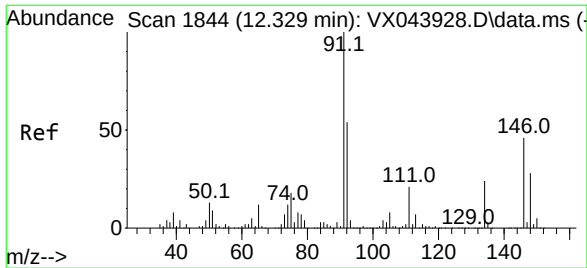
Tgt Ion:105 Resp: 17843

Ion Ratio Lower Upper

105 100

134 27.7 9.7 29.1





#89

n-Butylbenzene

Concen: 12.250 ug/l

RT: 12.310 min Scan# 1844

Delta R.T. -0.019 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Instrument :

MSVOA\_X

ClientSampleId :

NP-WS-001

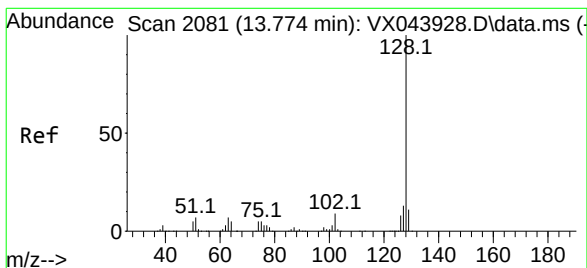
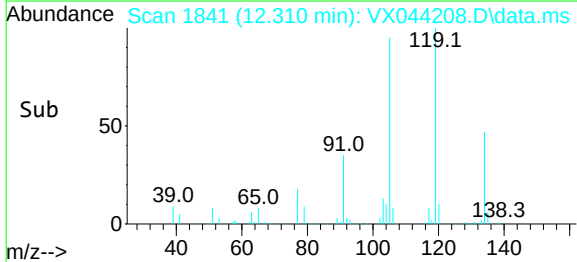
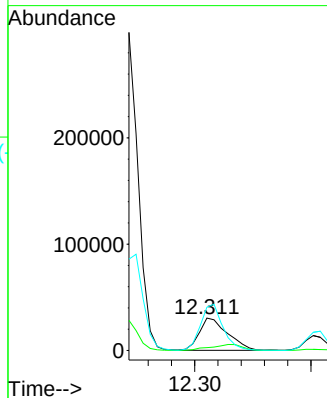
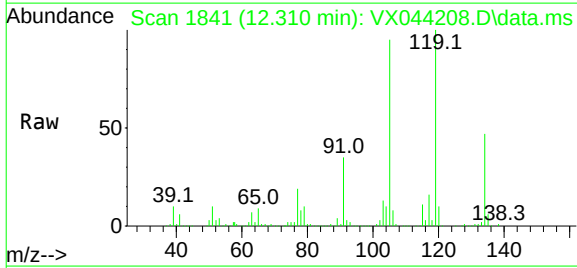
Tgt Ion: 91 Resp: 51143

Ion Ratio Lower Upper

91 100

92 21.2 26.6 79.8#

134 114.6 12.4 37.2#



#95

Naphthalene

Concen: 57.020 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX044208.D

Acq: 10 Dec 2024 15:13

Tgt Ion: 128 Resp: 309574

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

129 11.9 8.6 12.8

