

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121818\  
 Data File : VW007615.D  
 Acq On : 16 Dec 2018 07:16  
 Operator : SY/AP  
 Sample : J6378-21  
 Misc : 6.22G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS001-1824-01

Quant Time: Dec 17 00:18:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

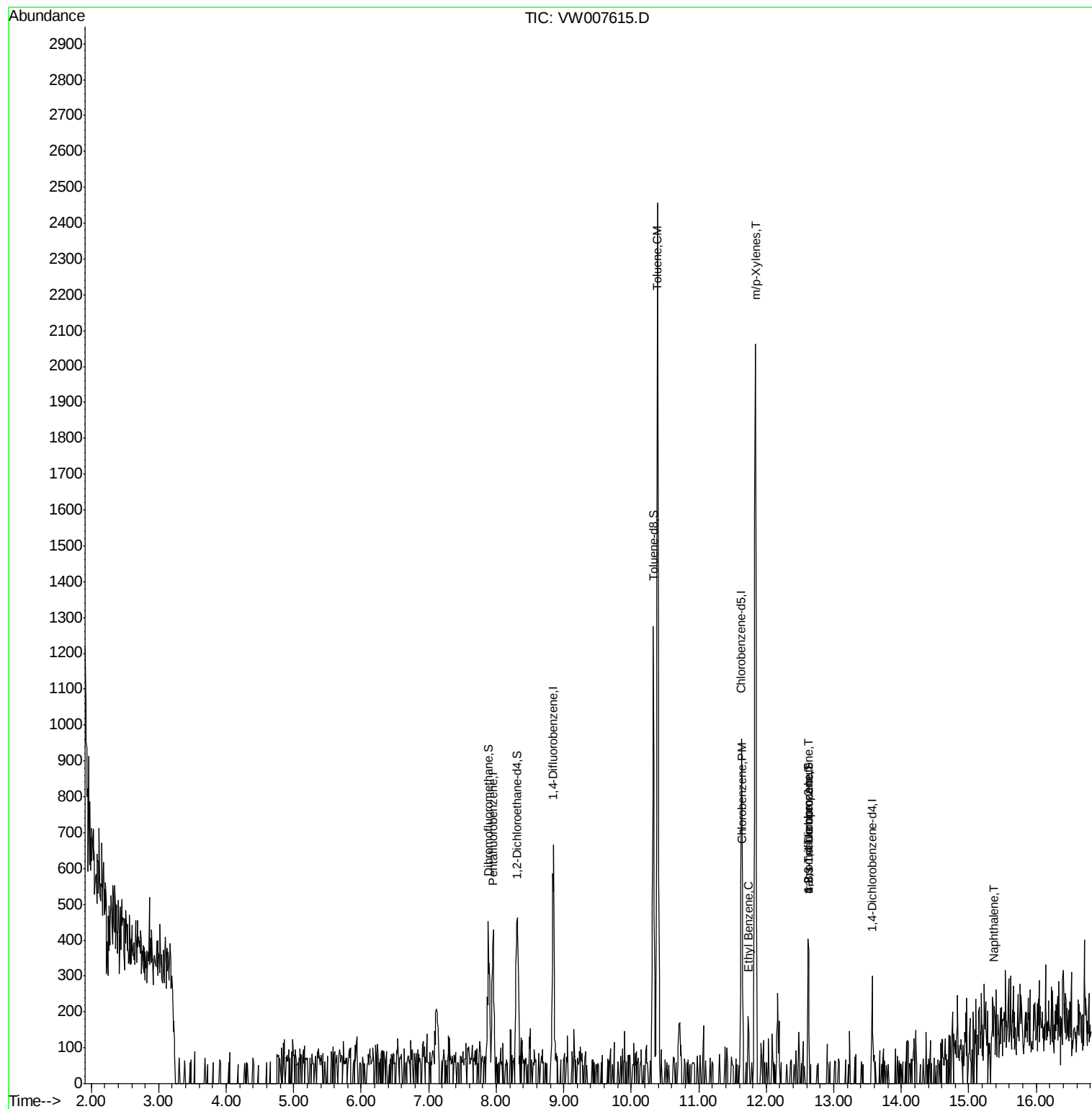
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.96  | 168  | 468      | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.85  | 114  | 873      | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 691      | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 134      | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.30  | 65   | 494      | 95.14  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 190.28% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 405      | 76.64  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 153.28% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 1000     | 50.47  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 100.94% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 117      | 16.06  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 32.12%  |          |
| Target Compounds               |       |      |          |        |         |          |
| 52) Toluene                    | 10.39 | 92   | 1176     | 82.223 | ug/l    | 97       |
| 65) Chlorobenzene              | 11.65 | 112  | 22       | 1.527  | ug/l #  | 40       |
| 67) Ethyl Benzene              | 11.73 | 91   | 192      | 7.754  | ug/l #  | 48       |
| 68) m/p-Xylenes                | 11.84 | 106  | 639      | 66.380 | ug/l    | 75       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 43       | 38.919 | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 43       | 85.972 | ug/l #  | 7        |
| 95) Naphthalene                | 15.38 | 128  | 20       | 3.738  | ug/l #  | 70       |

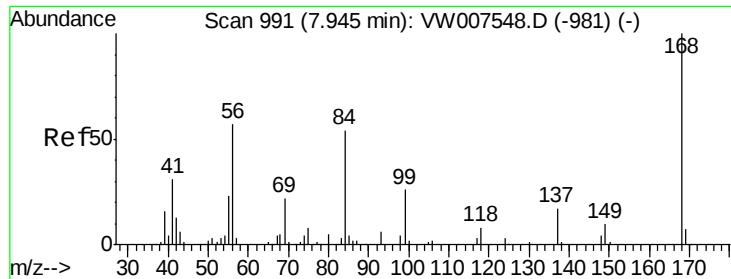
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW121818\  
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P001-SS001-1824-01

Quant Time: Dec 17 00:18:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW007615.D

Acq: 16 Dec 2018 07:16

Instrument :

MSVOA\_W

ClientSampleId :

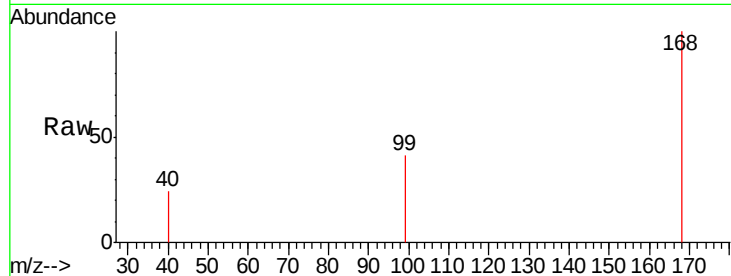
P001-SS001-1824-01

Tgt Ion: 168 Resp: 468

Ion Ratio Lower Upper

168 100

99 41.4 48.3 72.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

250

200

150

100

50

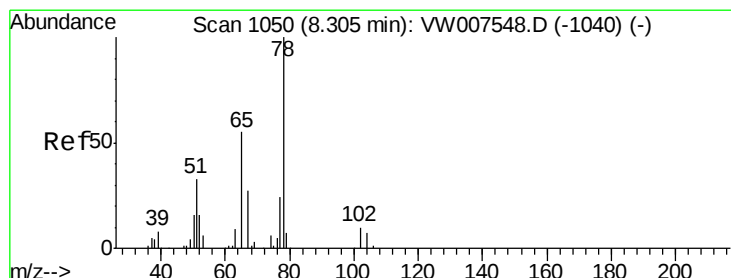
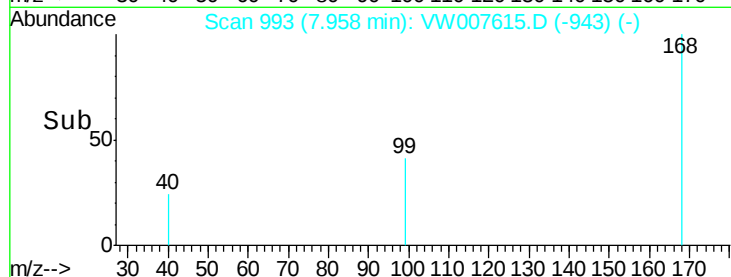
0

7.90

7.95

8.00

Time-->



#33

1,2-Dichloroethane-d4

Concen: 95.145 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW007615.D

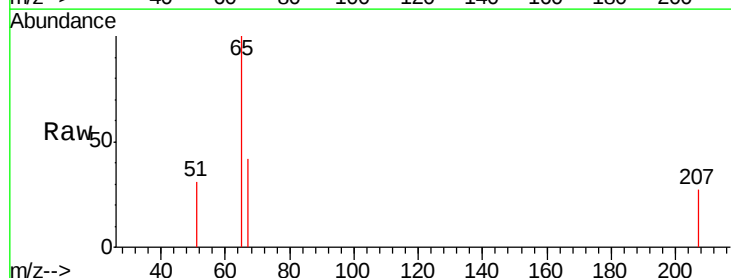
Acq: 16 Dec 2018 07:16

Tgt Ion: 65 Resp: 494

Ion Ratio Lower Upper

65 100

67 51.0 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.30

200

150

100

50

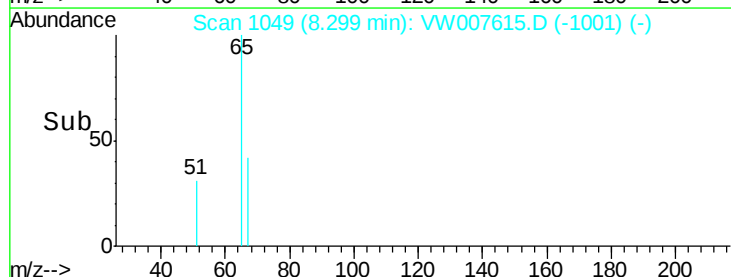
0

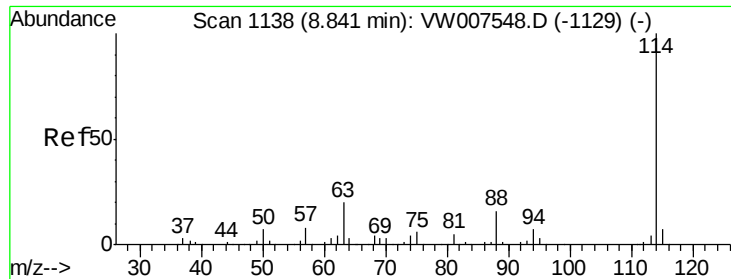
8.25

8.30

8.35

Time-->

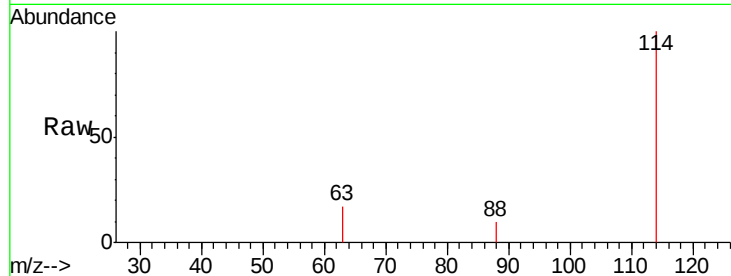




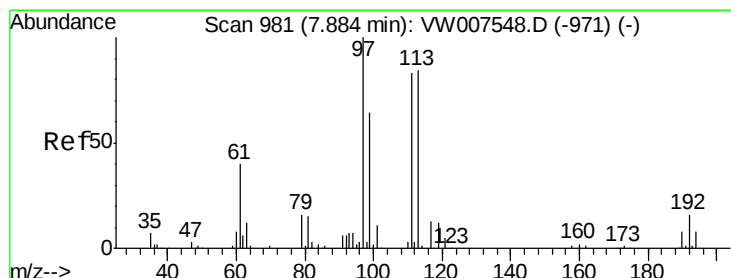
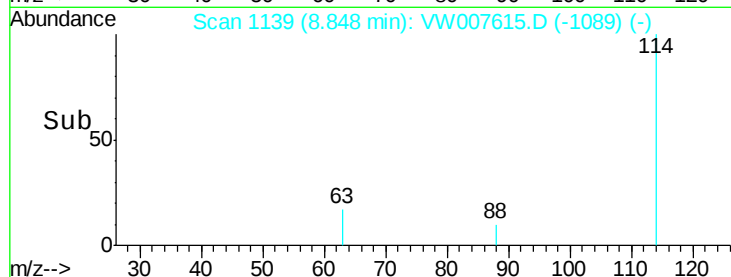
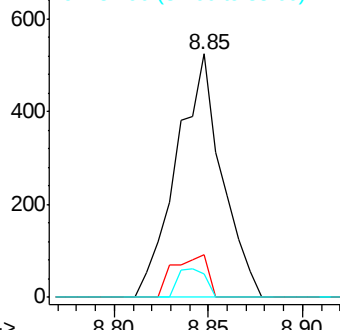
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.01 min  
 Lab File: VW007615.D  
 Acq: 16 Dec 2018 07:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS001-1824-01

Tgt Ion:114 Resp: 873  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 39.6  
 88 9.7 0.0 31.4

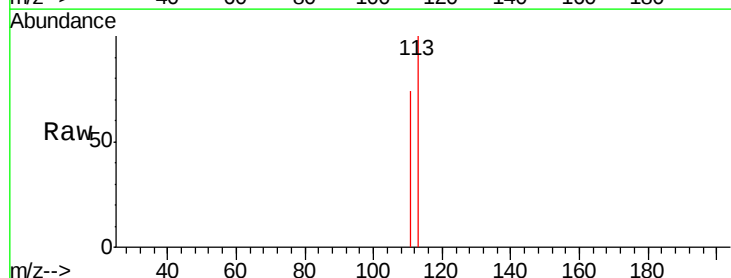


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

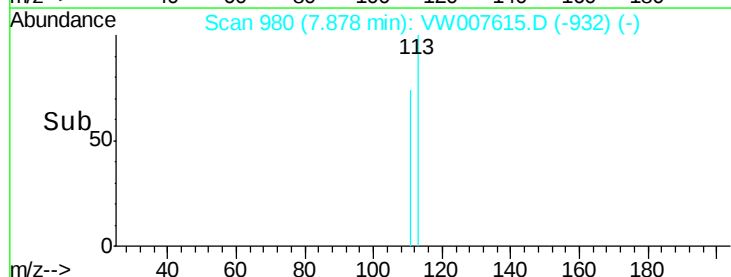
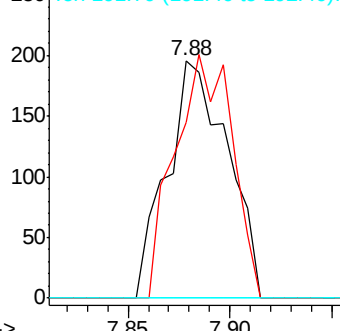


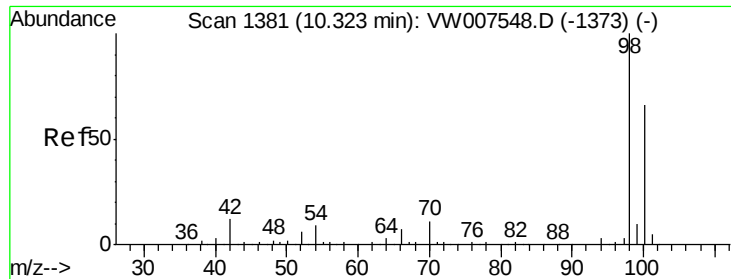
#35  
 Dibromofluoromethane  
 Concen: 76.637 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW007615.D  
 Acq: 16 Dec 2018 07:16

Tgt Ion:113 Resp: 405  
 Ion Ratio Lower Upper  
 113 100  
 111 96.8 81.1 121.7  
 192 0.0 14.6 21.8#



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





#50

Toluene-d8

Concen: 50.468 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007615.D

Acq: 16 Dec 2018 07:16

Instrument :

MSVOA\_W

ClientSampleId :

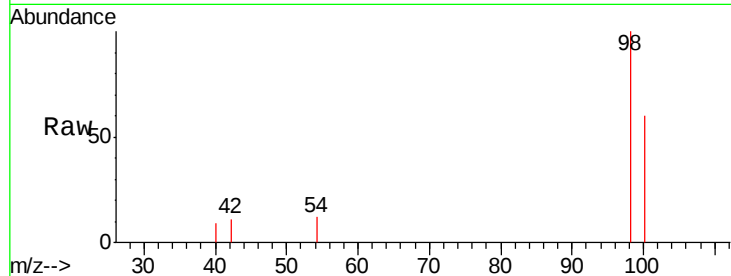
P001-SS001-1824-01

Tgt Ion: 98 Resp: 1000

Ion Ratio Lower Upper

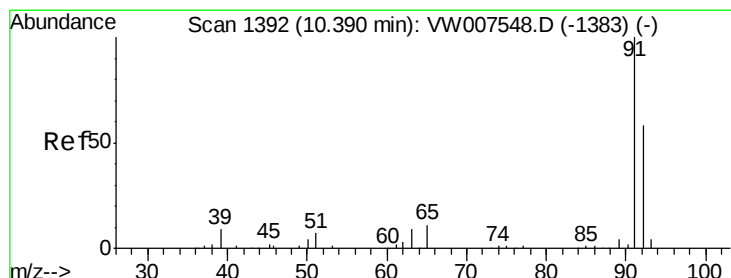
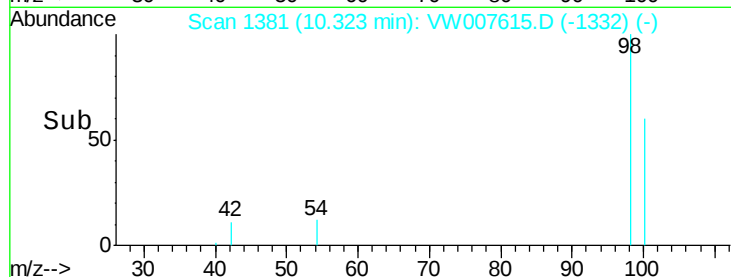
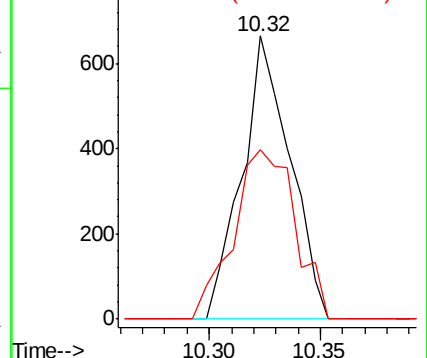
98 100

100 76.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 82.223 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007615.D

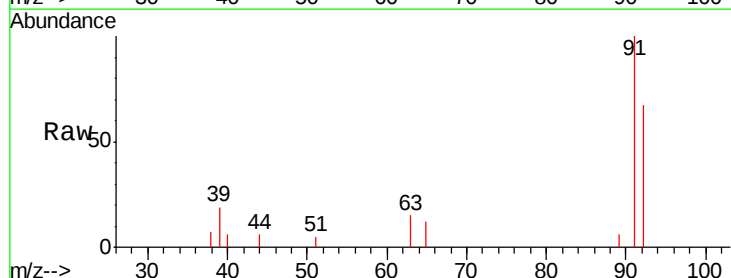
Acq: 16 Dec 2018 07:16

Tgt Ion: 92 Resp: 1176

Ion Ratio Lower Upper

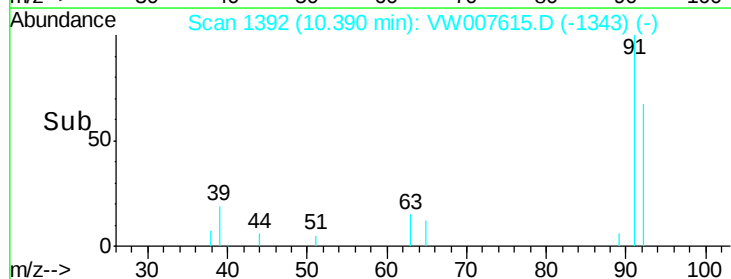
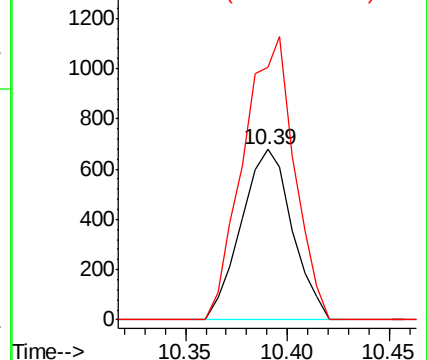
92 100

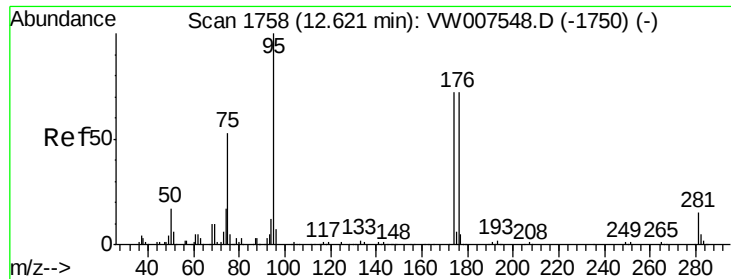
91 166.6 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

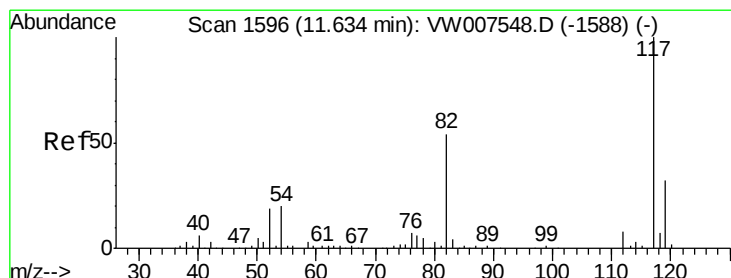
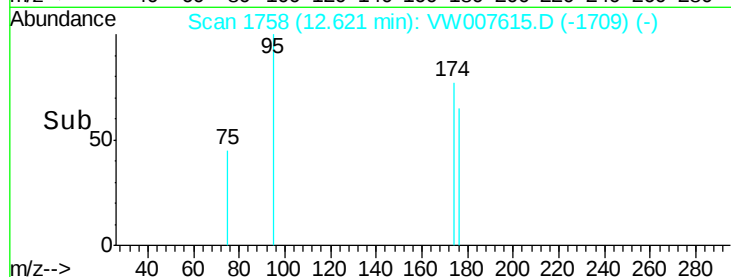
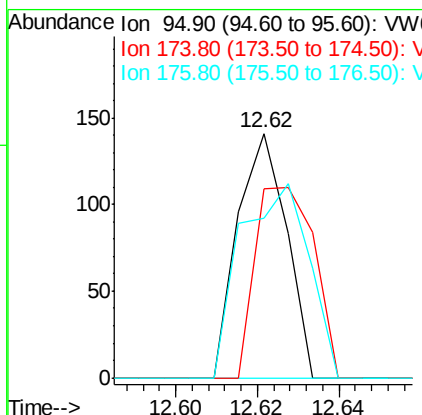
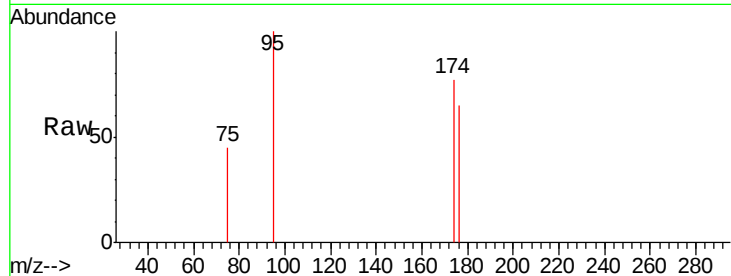




#62  
4-Bromofluorobenzene  
Concen: 16.060 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW007615.D  
Acq: 16 Dec 2018 07:16

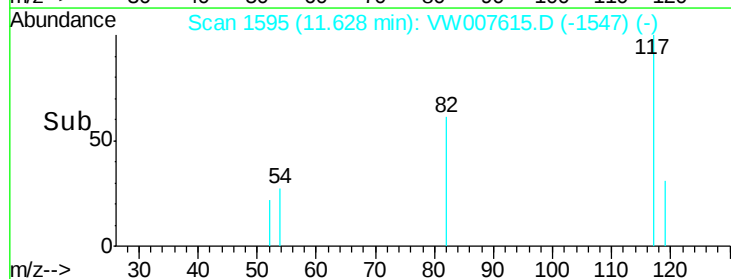
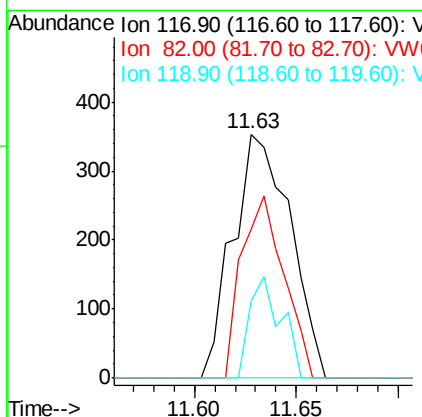
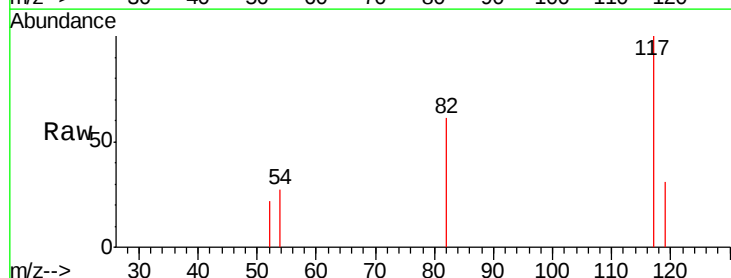
Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-1824-01

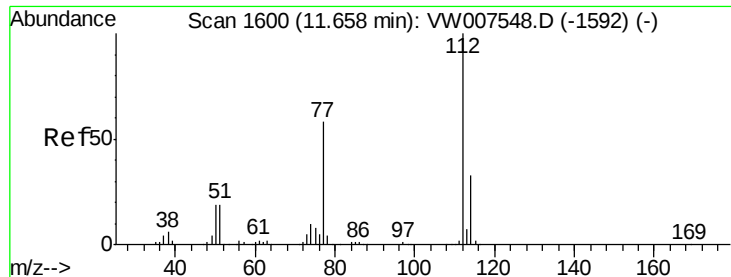
Tgt Ion: 95 Resp: 117  
Ion Ratio Lower Upper  
95 100  
174 94.9 0.0 147.2  
176 111.1 0.0 138.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW007615.D  
Acq: 16 Dec 2018 07:16

Tgt Ion: 117 Resp: 691  
Ion Ratio Lower Upper  
117 100  
82 61.2 42.3 63.5  
119 31.4 23.0 34.6





#65

Chlorobenzene

Concen: 1.527 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW007615.D

Acq: 16 Dec 2018 07:16

Instrument :

MSVOA\_W

ClientSampleId :

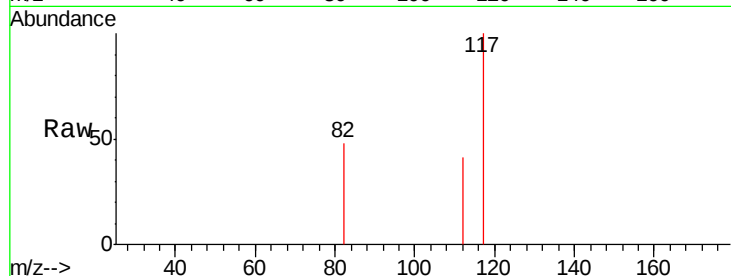
P001-SS001-1824-01

Tgt Ion: 112 Resp: 22

Ion Ratio Lower Upper

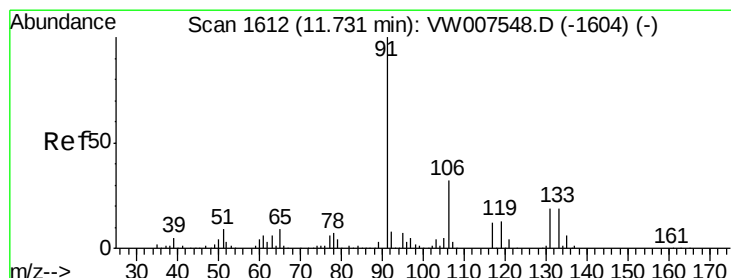
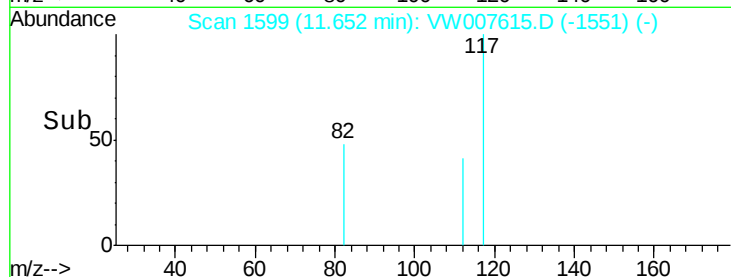
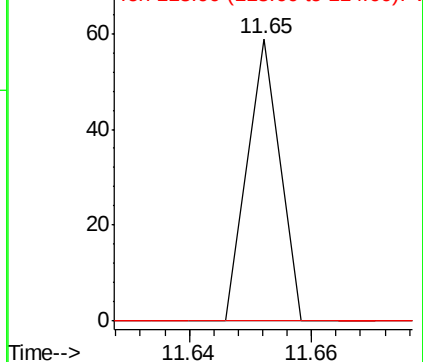
112 100

114 0.0 27.8 41.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 7.754 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW007615.D

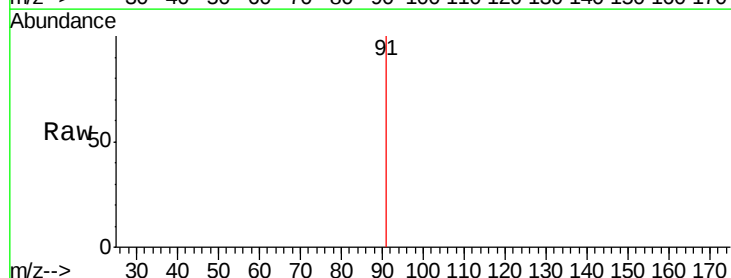
Acq: 16 Dec 2018 07:16

Tgt Ion: 91 Resp: 192

Ion Ratio Lower Upper

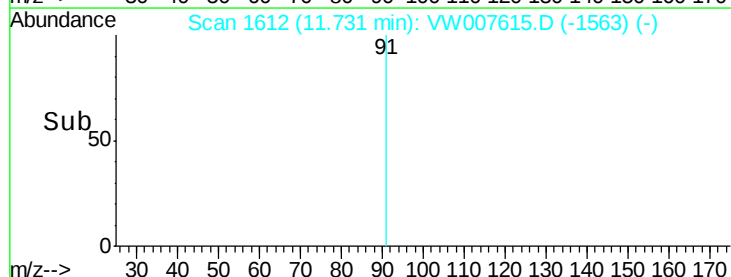
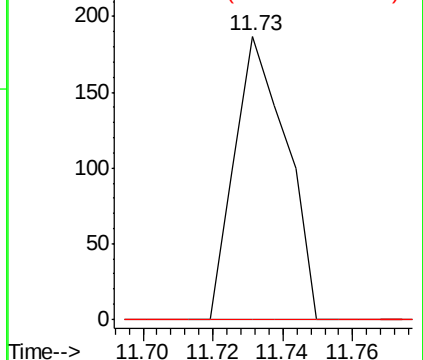
91 100

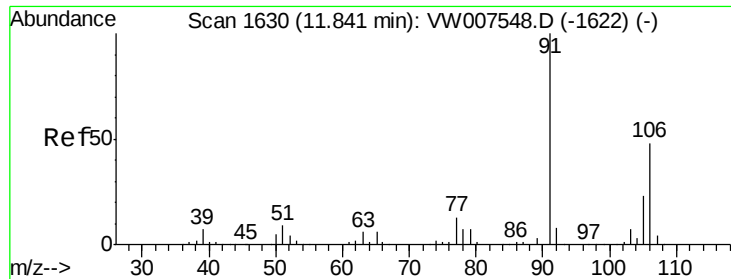
106 0.0 21.8 32.8#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

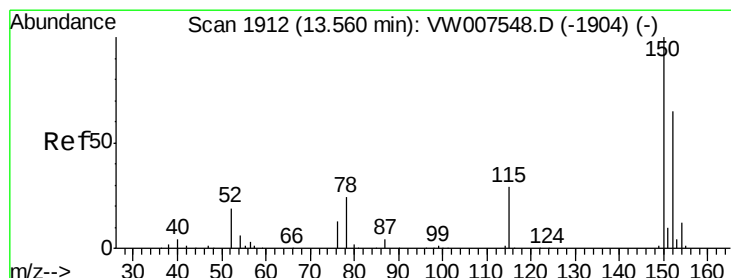
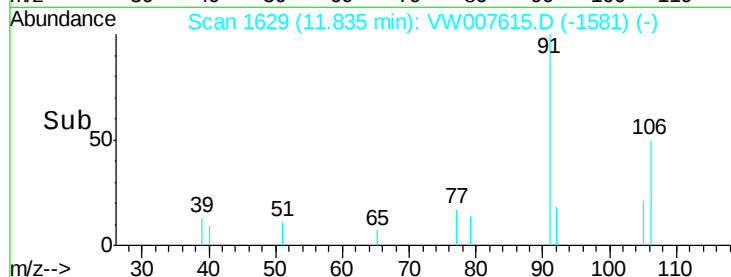
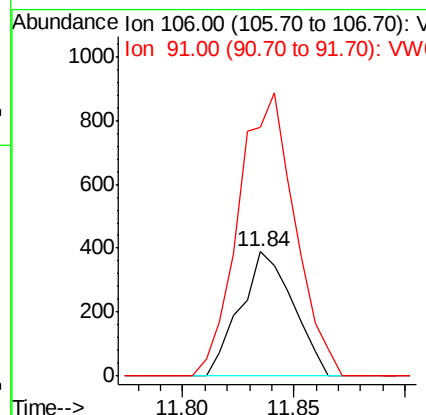
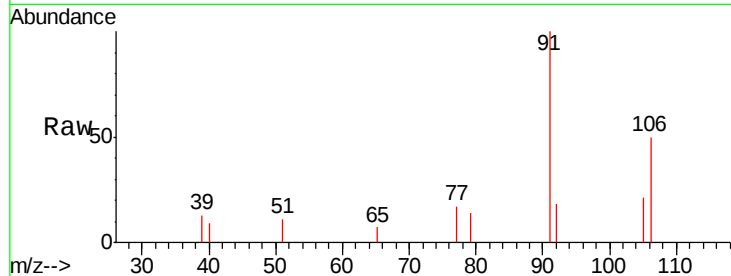




#68  
m/p-Xylenes  
Concen: 66.380 ug/l  
RT: 11.84 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW007615.D  
Acq: 16 Dec 2018 07:16

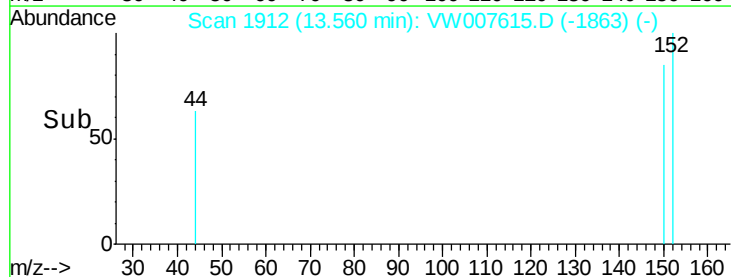
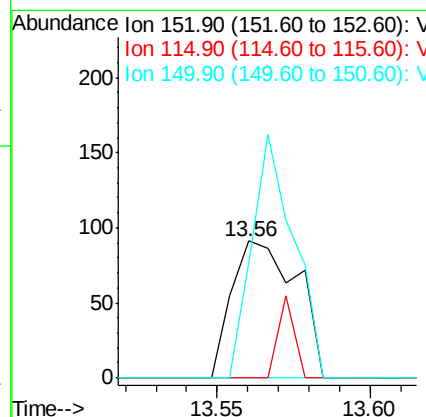
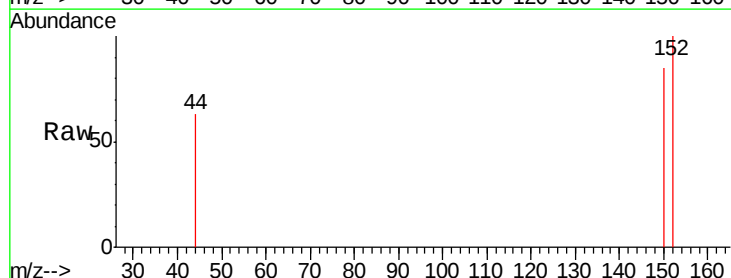
Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-1824-01

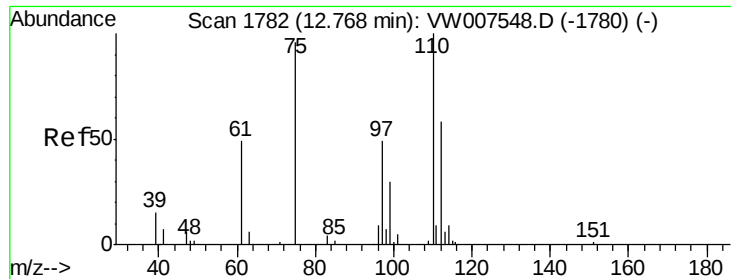
Tgt Ion:106 Resp: 639  
Ion Ratio Lower Upper  
106 100  
91 244.9 165.3 247.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW007615.D  
Acq: 16 Dec 2018 07:16

Tgt Ion:152 Resp: 134  
Ion Ratio Lower Upper  
152 100  
115 14.9 31.4 94.2#  
150 114.2 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 38.919 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007615.D

Acq: 16 Dec 2018 07:16

Instrument :

MSVOA\_W

ClientSampleId :

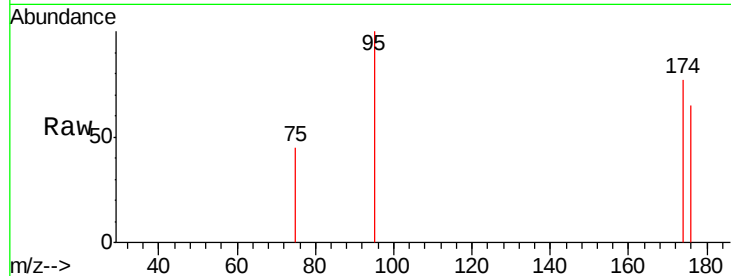
P001-SS001-1824-01

Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

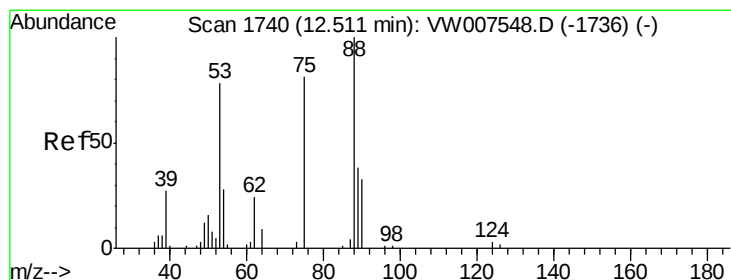
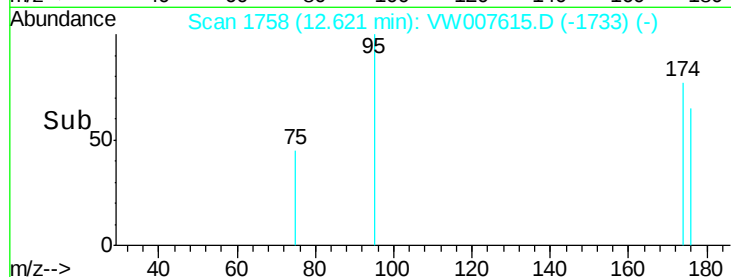
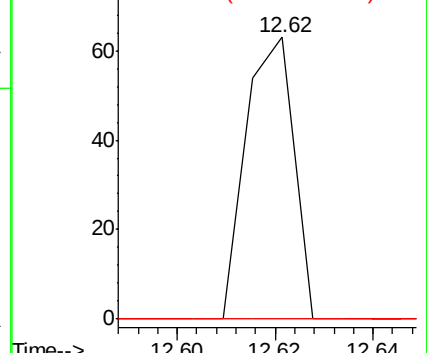
75 100

77 0.0 166.9 500.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 85.972 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007615.D

Acq: 16 Dec 2018 07:16

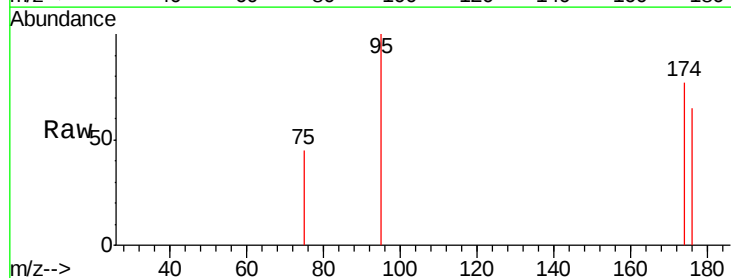
Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

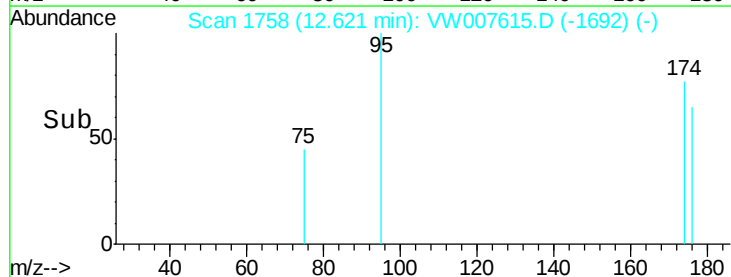
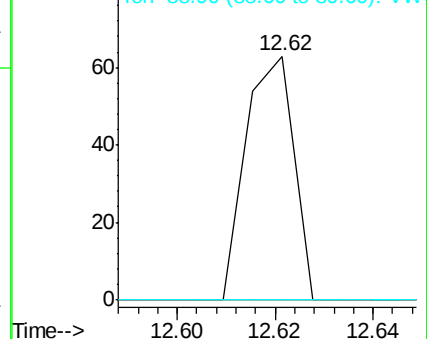
89 0.0 40.3 60.5#

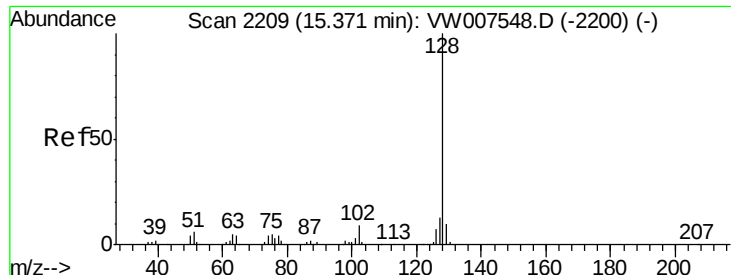


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#95

Naphthalene

Concen: 3.738 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW007615.D

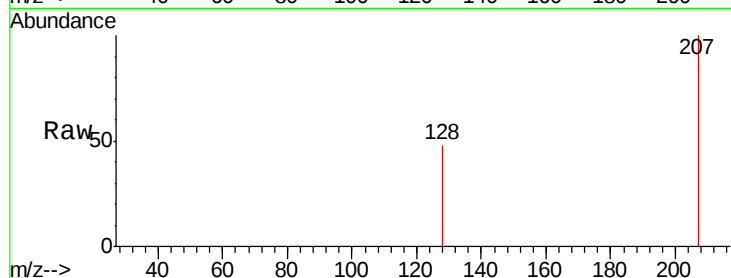
Acq: 16 Dec 2018 07:16

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS001-1824-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.2  | 15.4# |
| 129      | 0.0   | 8.3   | 12.5# |

