

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
 Data File : VX016609.D  
 Acq On : 05 Jun 2020 14:24  
 Operator : JC/SP  
 Sample : L2894-15DL 200X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS032MW008-200602DL

Quant Time: Jun 06 06:00:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 233853   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 370894   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 368875   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 182792   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 137044   | 47.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.38%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 110579   | 48.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.84%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 454785   | 51.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.32% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 177841   | 51.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.56% |          |

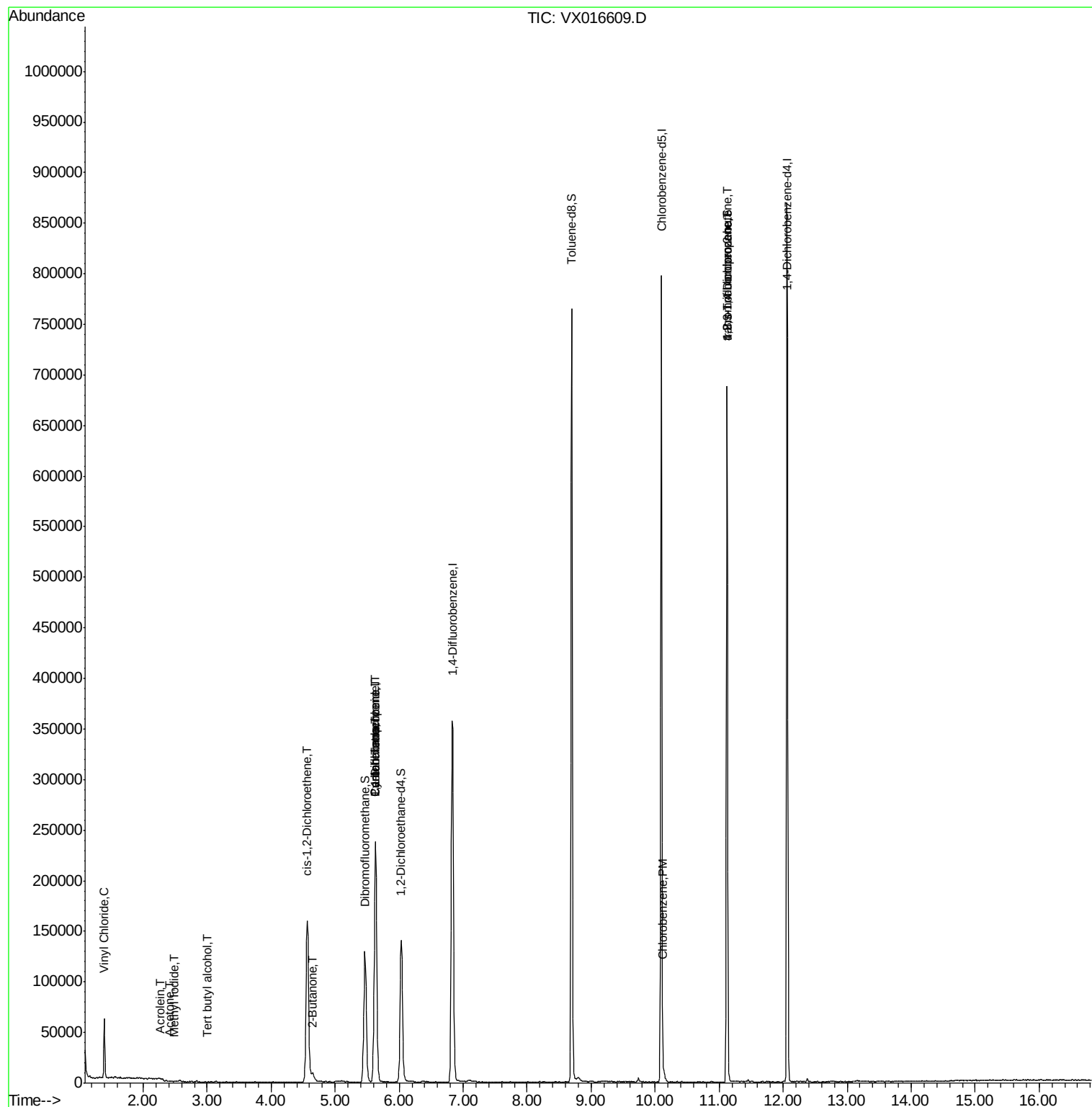
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 4) Vinyl Chloride              | 1.39  | 62   | 34432    | 11.71 | ug/l   | 97     |
| 10) Methyl Iodide              | 2.48  | 142  | 23       | 3.06  | ug/l # | 40     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 268      | 0.36  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 254      | 0.80  | ug/l # | 43     |
| 16) Acetone                    | 2.42  | 43   | 904      | 0.71  | ug/l # | 71     |
| 25) 2-Butanone                 | 4.64  | 43   | 474      | 0.22  | ug/l # | 49     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 108247   | 37.59 | ug/l   | 89     |
| 31) Cyclohexane                | 5.63  | 56   | 4100     | 1.02  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 16462    | 4.69  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 21981    | 5.96  | ug/l # | 16     |
| 65) Chlorobenzene              | 10.12 | 112  | 2596     | 0.35  | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 87911    | 21.88 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 87911    | 53.82 | ug/l # | 14     |

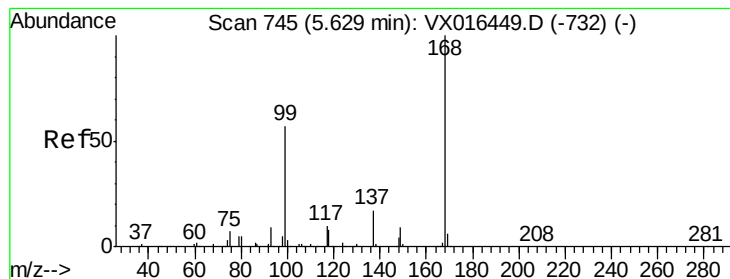
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
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MSVOA\_X  
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SS032MW008-200602DL

Quant Time: Jun 06 06:00:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 16:31:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

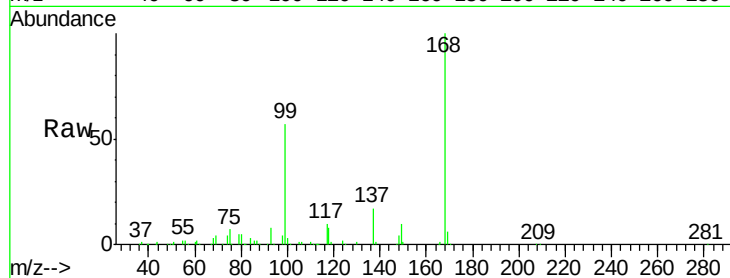
SS032MW008-200602DL

Tgt Ion:168 Resp: 233853

Ion Ratio Lower Upper

168 100

99 56.5 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

40000

20000

0

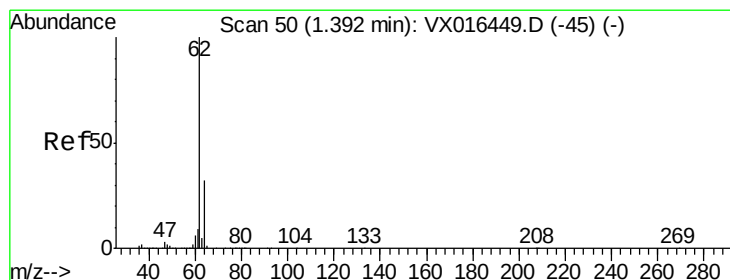
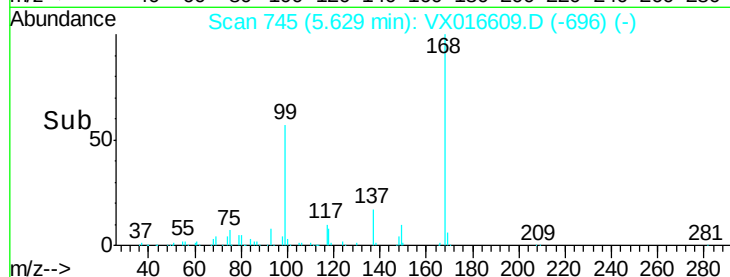
Time-->

5.50

5.60

5.70

5.80



#4

Vinyl Chloride

Concen: 11.71 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016609.D

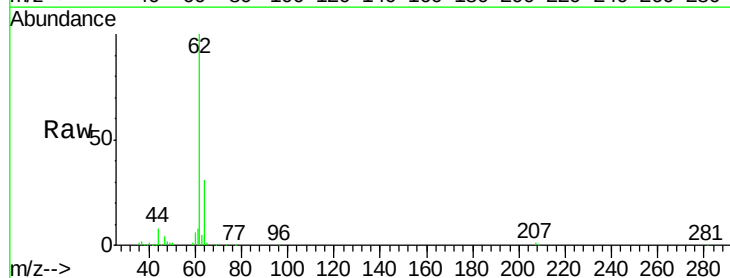
Acq: 05 Jun 2020 14:24

Tgt Ion: 62 Resp: 34432

Ion Ratio Lower Upper

62 100

64 30.9 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

40000

30000

20000

10000

0

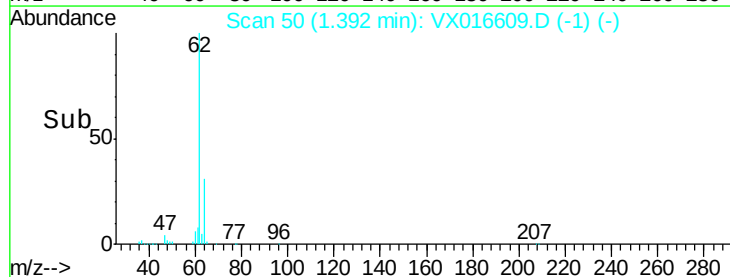
Time-->

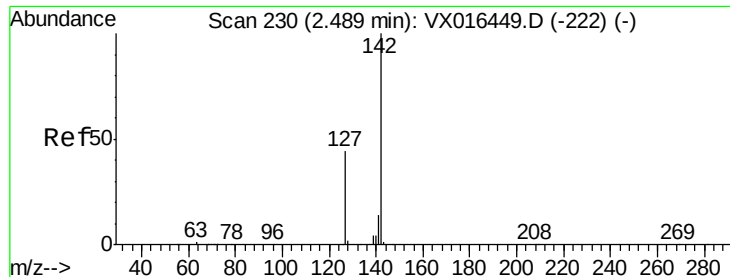
1.35

1.40

1.45

1.50

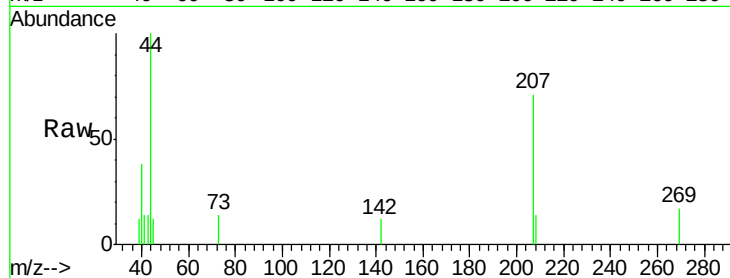




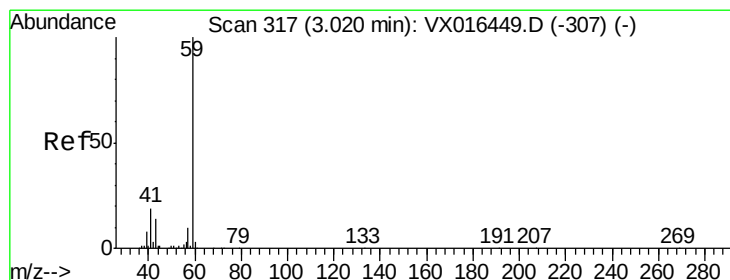
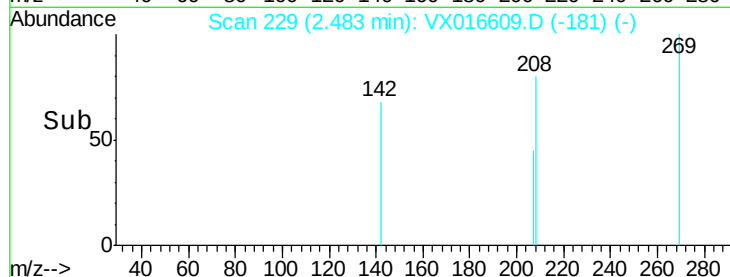
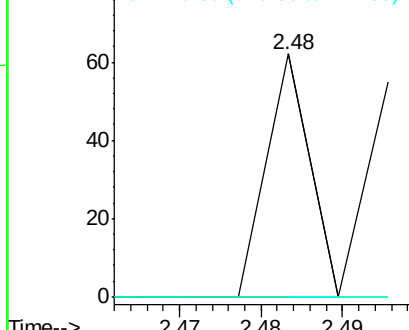
#10  
Methyl Iodide  
Concen: 3.06 ug/l  
RT: 2.48 min Scan# 229  
Delta R.T. -0.01 min  
Lab File: VX016609.D  
Acq: 05 Jun 2020 14:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS032MW008-200602DL

Tgt Ion: 142 Resp: 23  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.3 52.9#  
141 0.0 11.4 17.2#

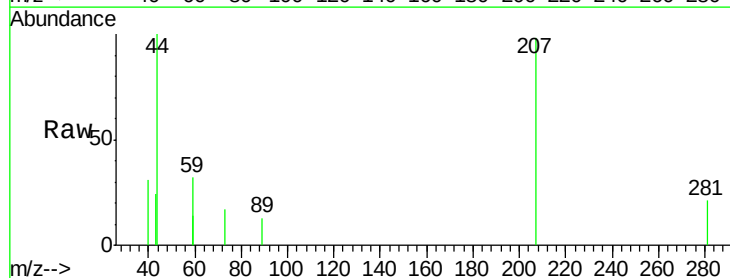


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

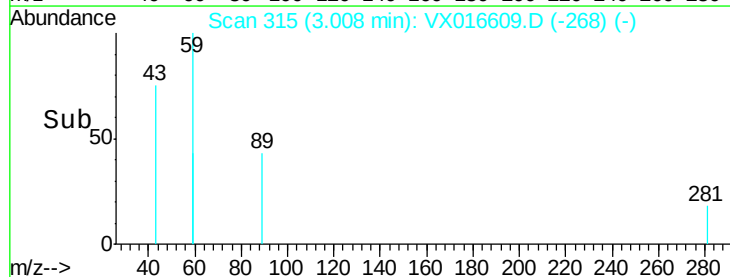
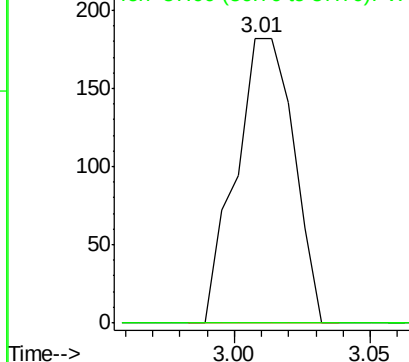


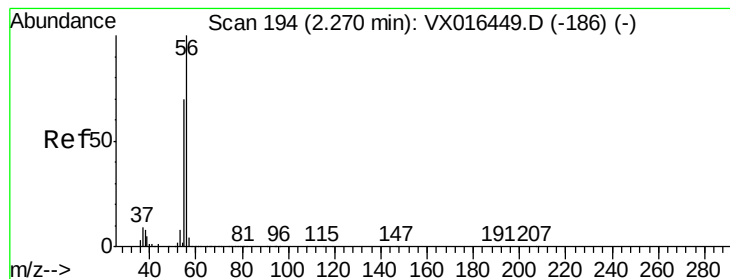
#11  
Tert butyl alcohol  
Concen: 0.36 ug/l  
RT: 3.01 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX016609.D  
Acq: 05 Jun 2020 14:24

Tgt Ion: 59 Resp: 268  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.80 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

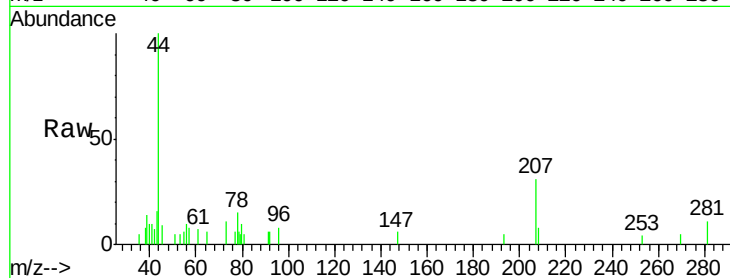
SS032MW008-200602DL

Tgt Ion: 56 Resp: 254

Ion Ratio Lower Upper

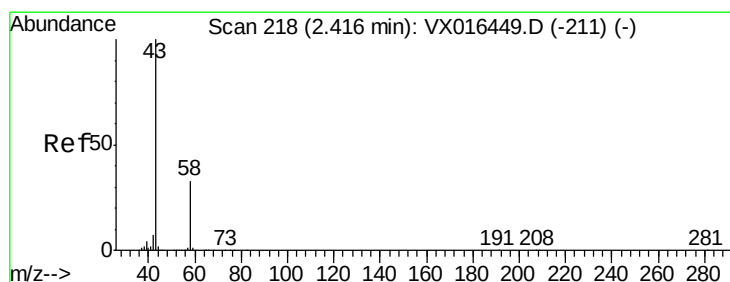
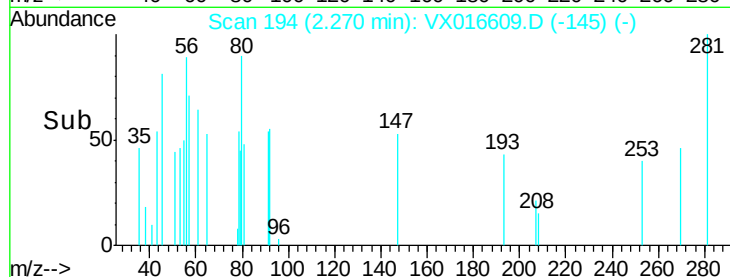
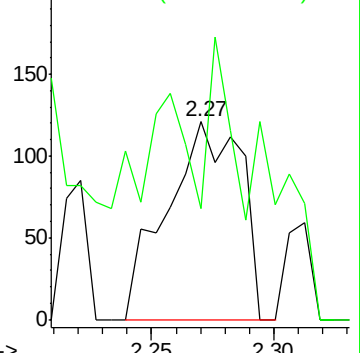
56 100

55 24.8 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.71 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016609.D

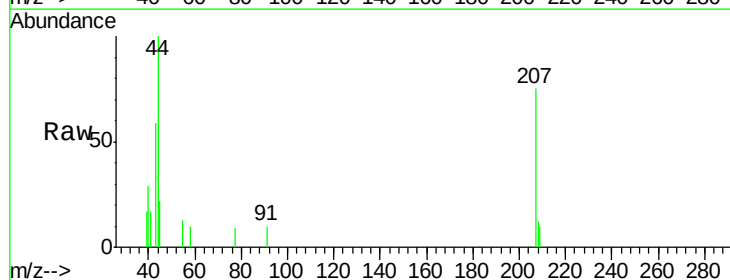
Acq: 05 Jun 2020 14:24

Tgt Ion: 43 Resp: 904

Ion Ratio Lower Upper

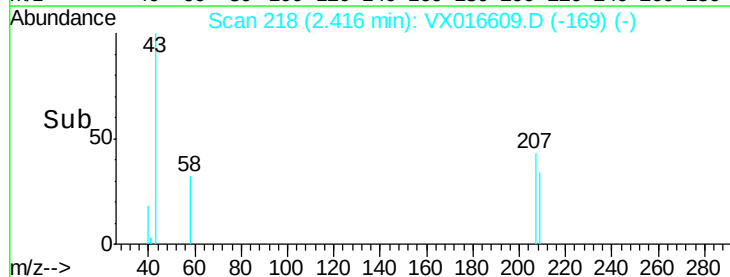
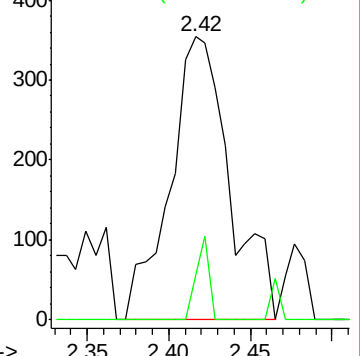
43 100

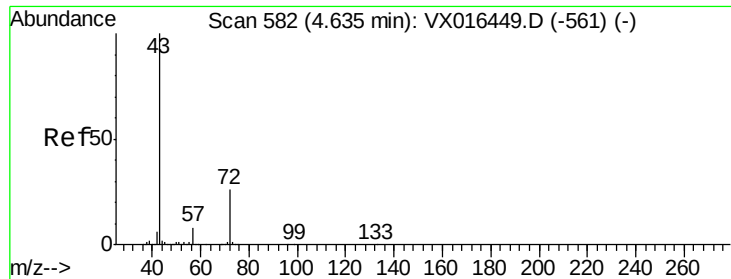
58 16.1 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

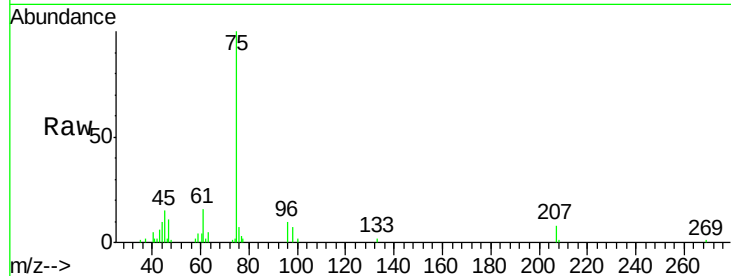
SS032MW008-200602DL

Tgt Ion: 43 Resp: 474

Ion Ratio Lower Upper

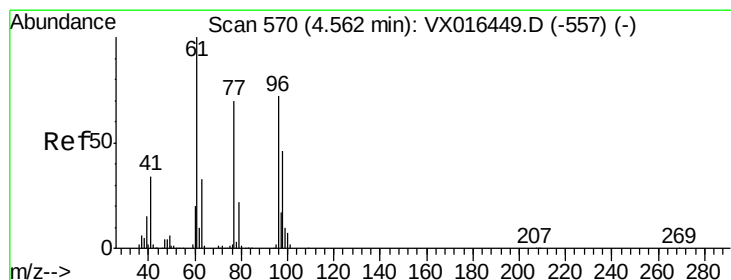
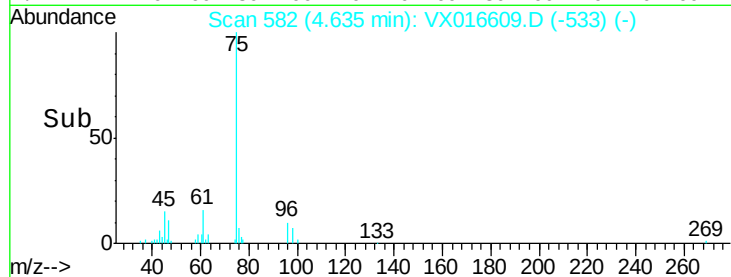
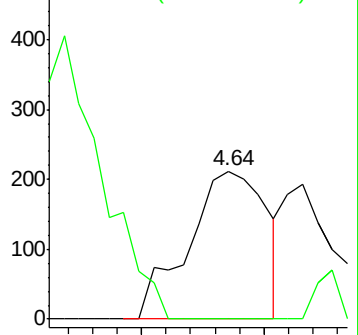
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 37.59 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

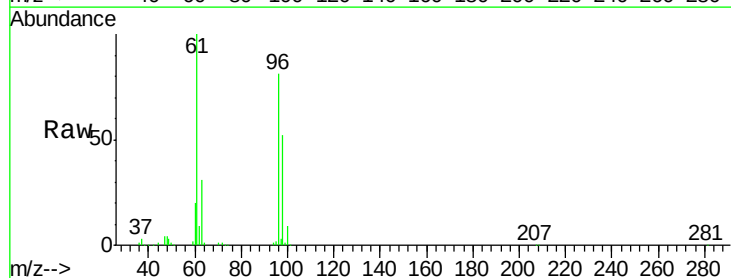
Tgt Ion: 96 Resp: 108247

Ion Ratio Lower Upper

96 100

61 122.7 0.0 284.6

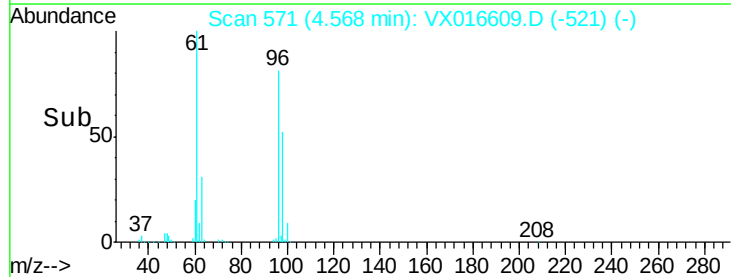
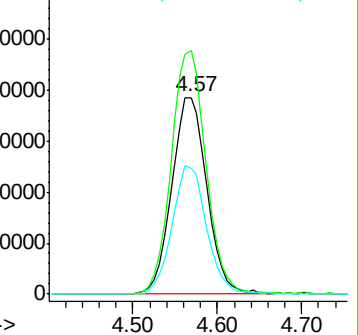
98 63.9 0.0 127.2

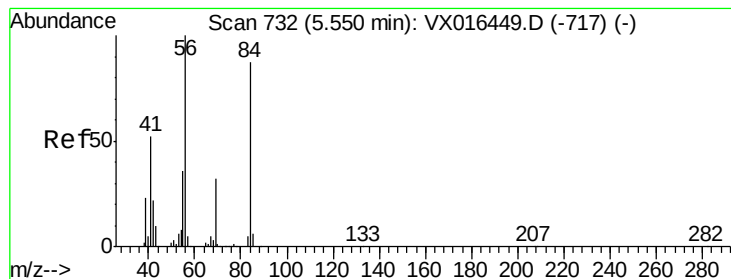


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.02 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

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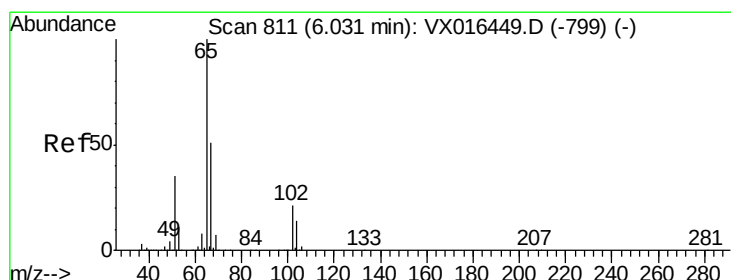
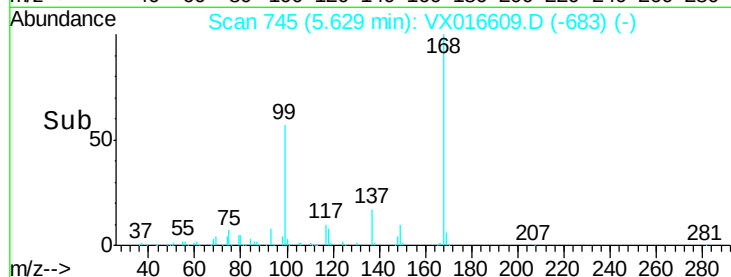
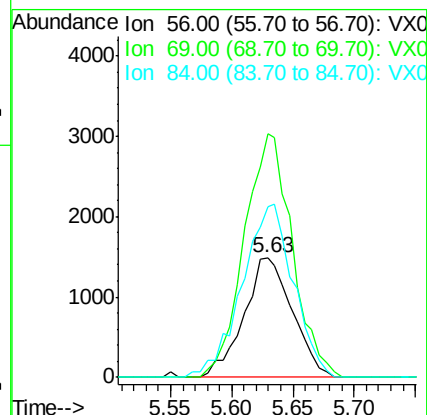
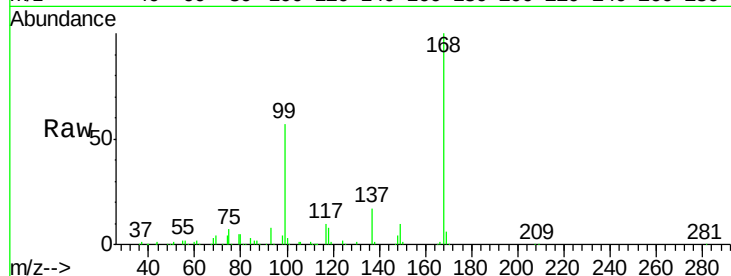
Tgt Ion: 56 Resp: 4100

Ion Ratio Lower Upper

56 100

69 202.8 25.7 38.5#

84 142.3 70.0 105.0#



#33

1,2-Dichloroethane-d4

Concen: 47.19 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016609.D

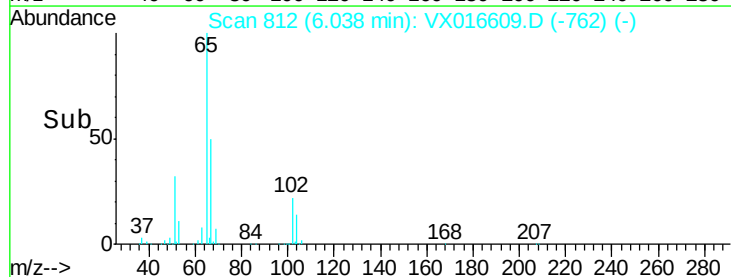
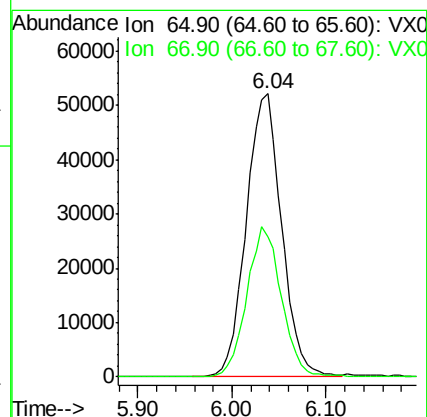
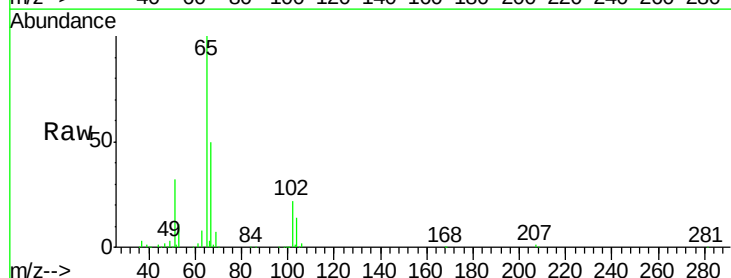
Acq: 05 Jun 2020 14:24

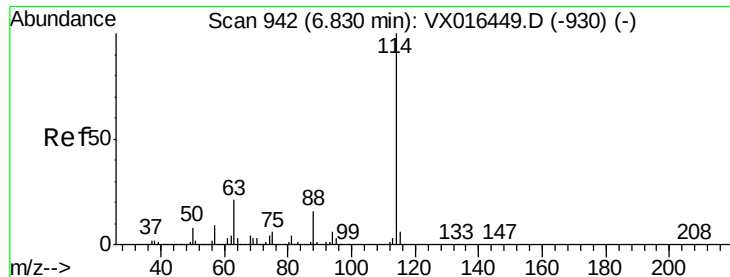
Tgt Ion: 65 Resp: 137044

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-200602DL

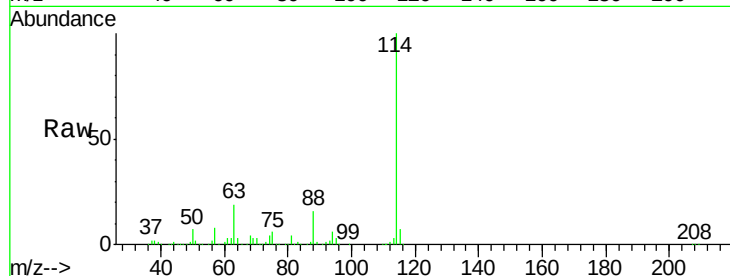
Tgt Ion:114 Resp: 370894

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 16.3 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

150000

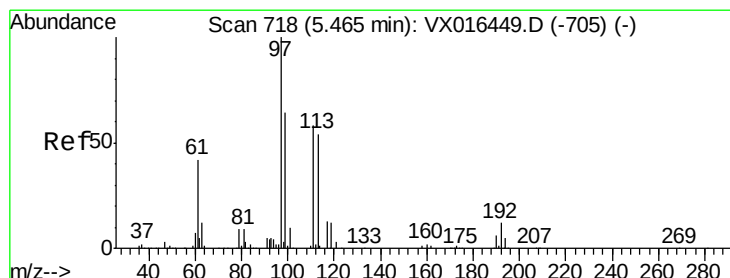
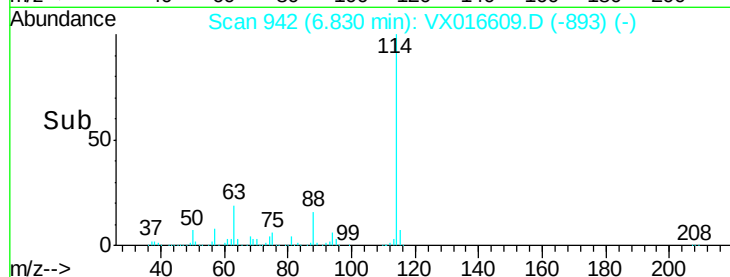
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.42 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

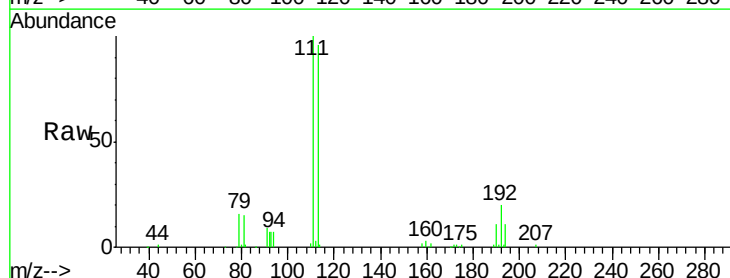
Tgt Ion:113 Resp: 110579

Ion Ratio Lower Upper

113 100

111 103.6 83.0 124.6

192 22.1 17.7 26.5



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

50000

40000

30000

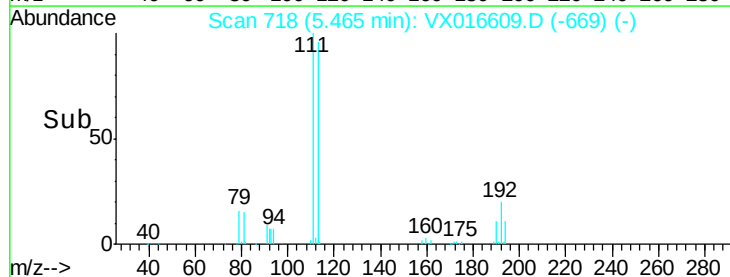
20000

10000

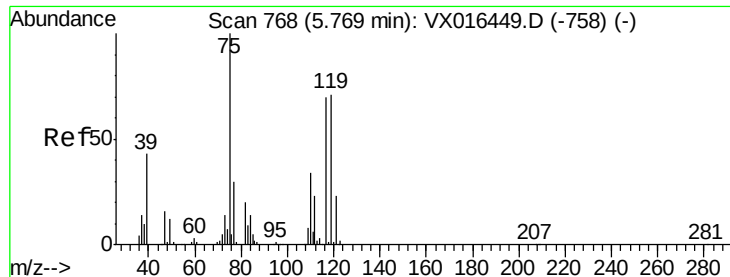
0

5.40 5.50 5.60

Time-->







#36

1,1-Dichloropropene

Concen: 4.69 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-200602DL

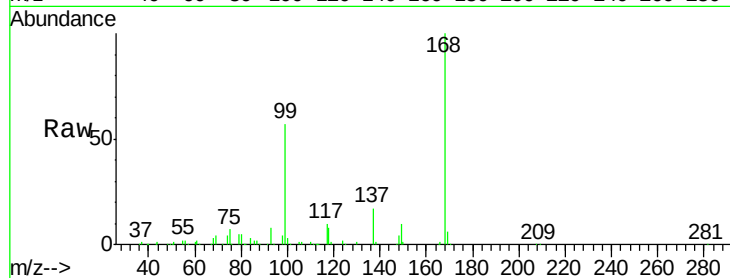
Tgt Ion: 75 Resp: 16462

Ion Ratio Lower Upper

75 100

110 9.7 17.4 52.3#

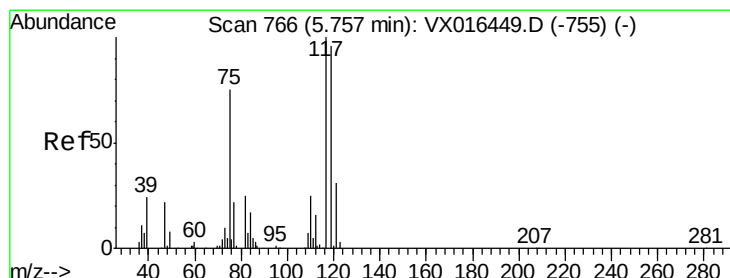
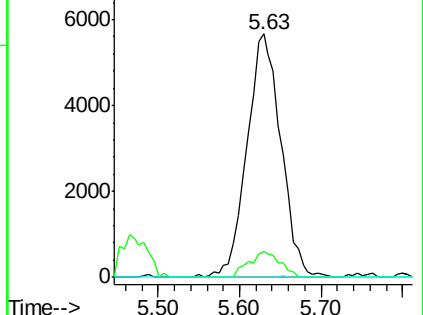
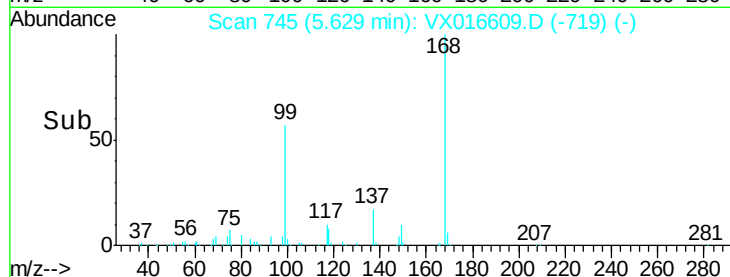
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX016609.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016609.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016609.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.96 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

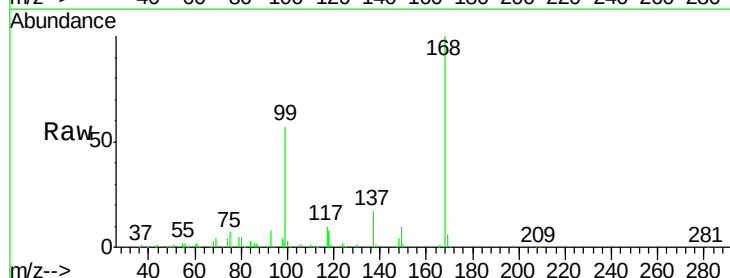
Tgt Ion: 117 Resp: 21981

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

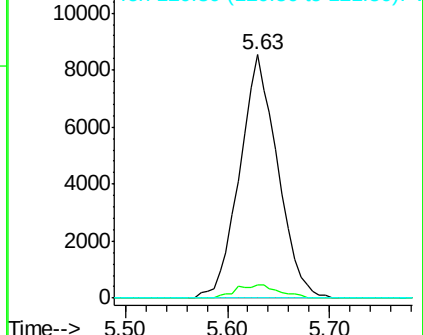
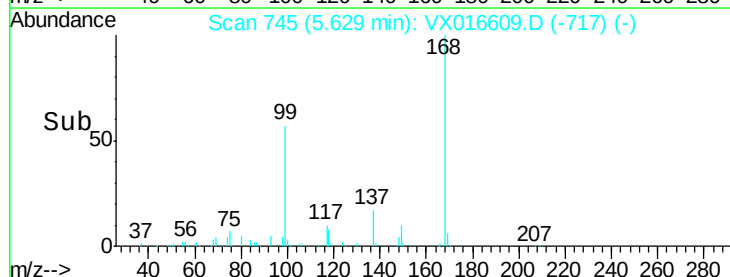
121 0.0 24.6 37.0#

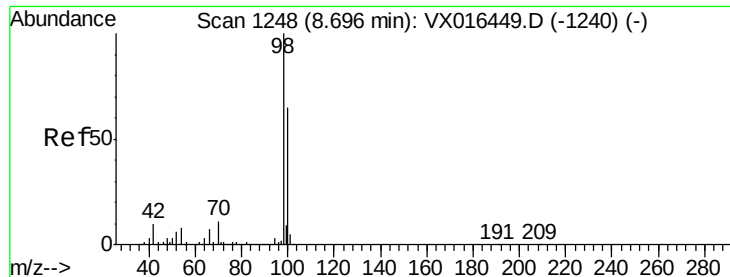


Abundance Ion 116.80 (116.50 to 117.50): VX016609.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016609.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016609.D (-717) (-)





#50

Toluene-d8

Concen: 51.16 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

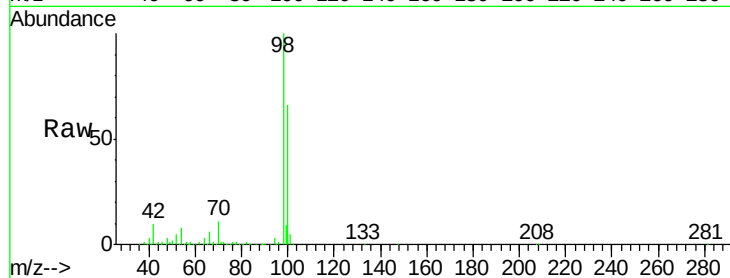
SS032MW008-200602DL

Tgt Ion: 98 Resp: 454785

Ion Ratio Lower Upper

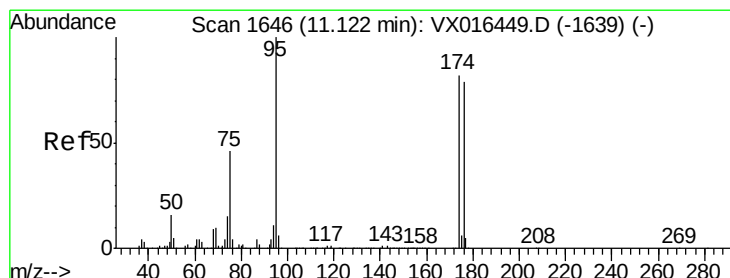
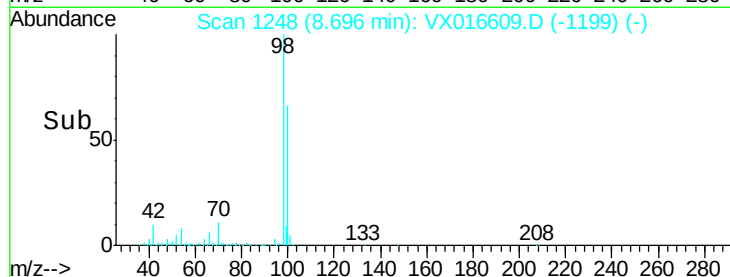
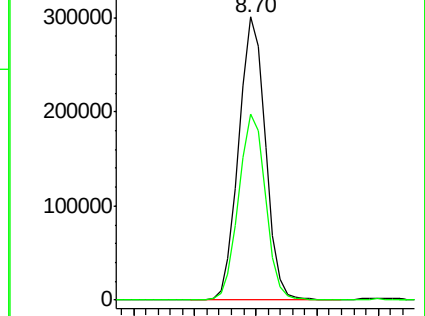
98 100

100 66.2 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 51.78 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

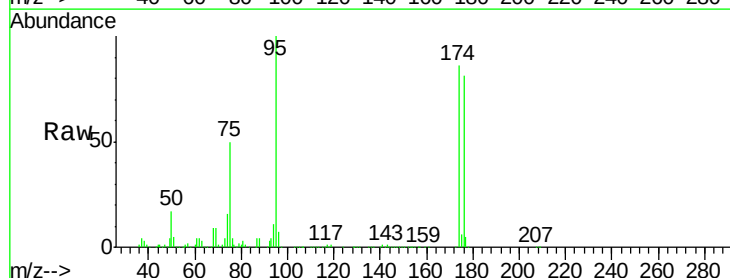
Tgt Ion: 95 Resp: 177841

Ion Ratio Lower Upper

95 100

174 84.7 0.0 163.0

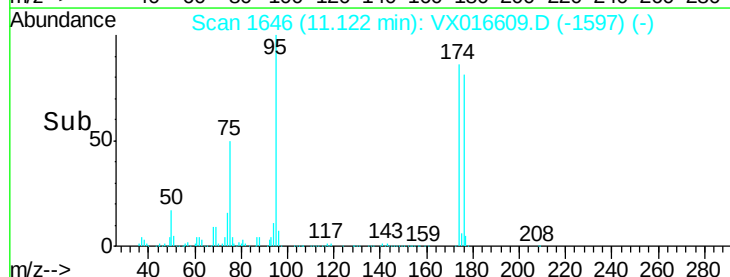
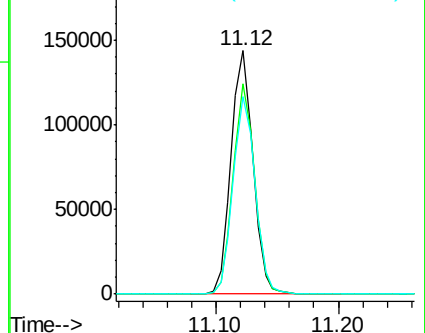
176 81.9 0.0 156.8

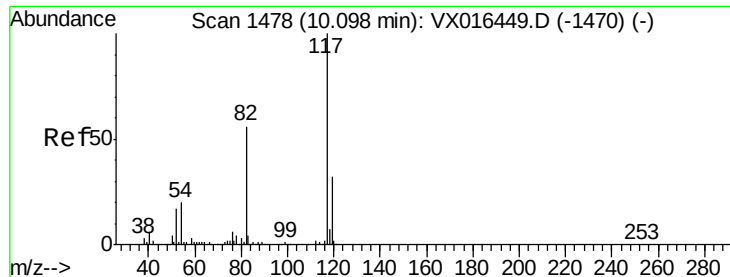


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

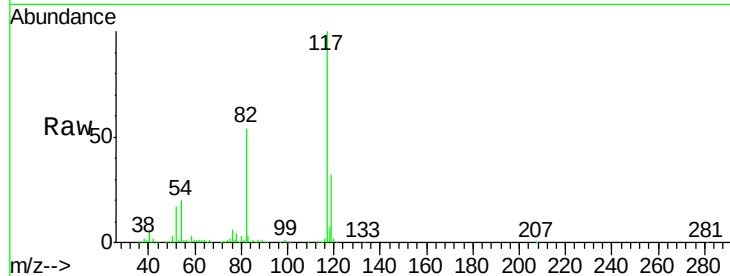




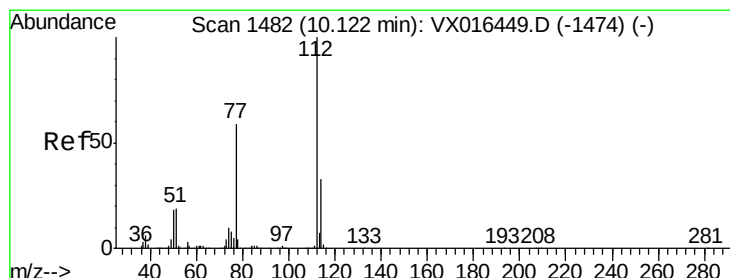
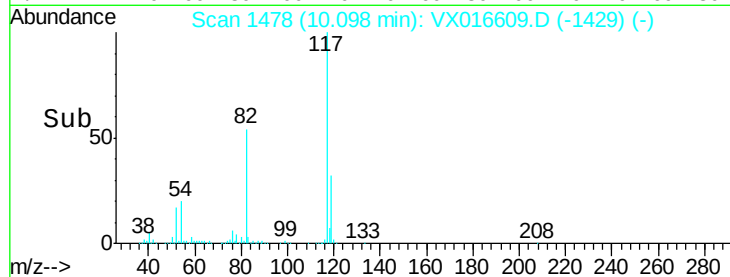
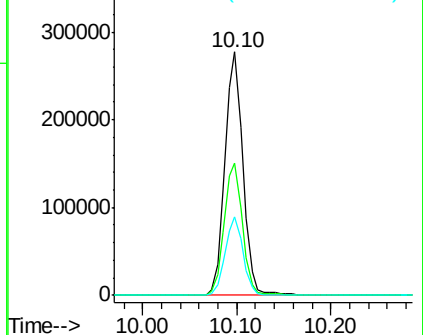
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX016609.D  
Acq: 05 Jun 2020 14:24

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS032MW008-200602DL

Tgt Ion:117 Resp: 368875  
Ion Ratio Lower Upper  
117 100  
82 54.2 45.0 67.6  
119 32.3 25.8 38.8

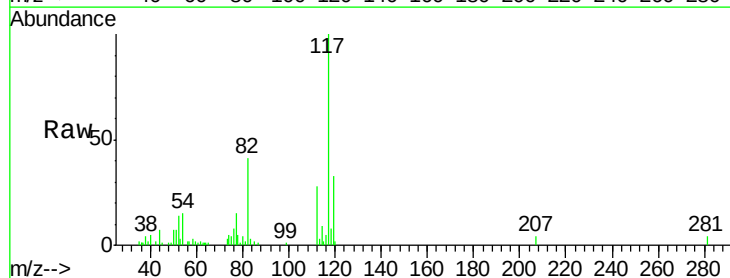


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

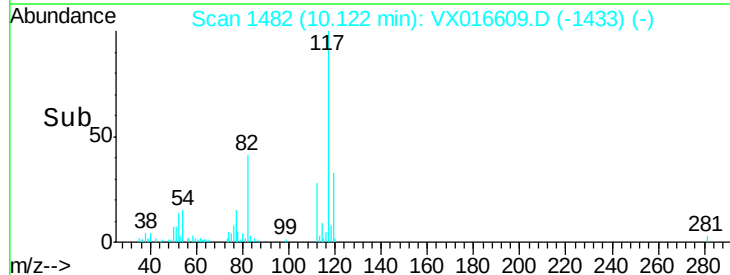
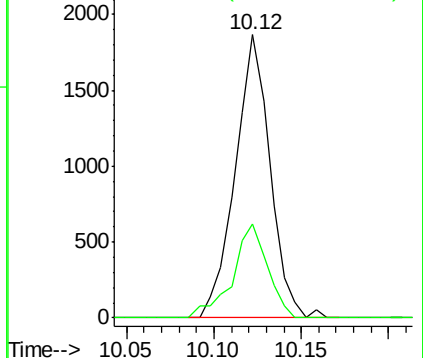


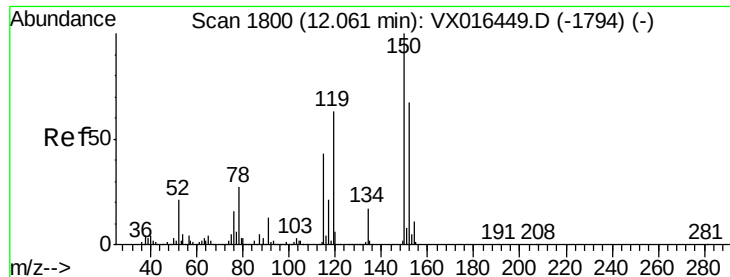
#65  
Chlorobenzene  
Concen: 0.35 ug/l  
RT: 10.12 min Scan# 1482  
Delta R.T. 0.00 min  
Lab File: VX016609.D  
Acq: 05 Jun 2020 14:24

Tgt Ion:112 Resp: 2596  
Ion Ratio Lower Upper  
112 100  
114 33.0 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016609.D

Acq: 05 Jun 2020 14:24

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-200602DL

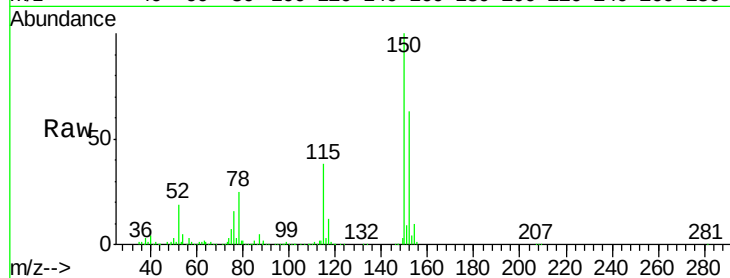
Tgt Ion: 152 Resp: 182792

Ion Ratio Lower Upper

152 100

115 58.5 39.9 119.6

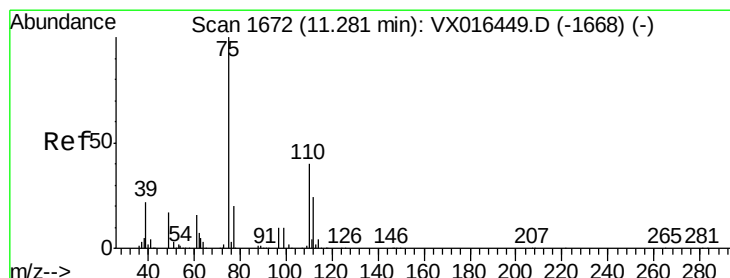
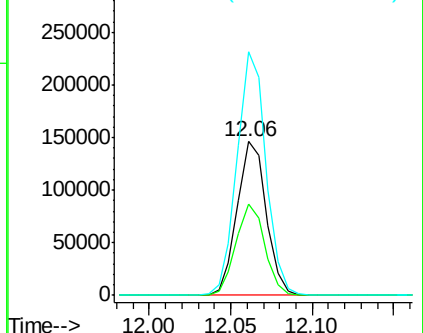
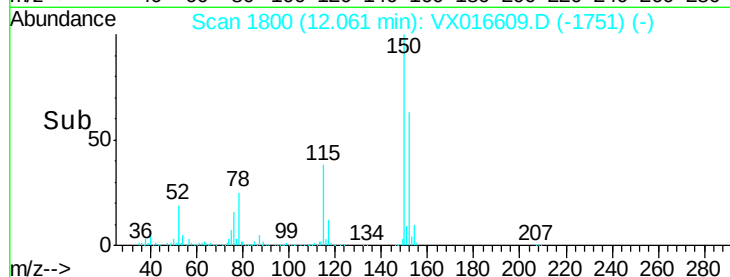
150 156.4 0.0 341.0



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



#76

1,2,3-Trichloropropane

Concen: 21.88 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016609.D

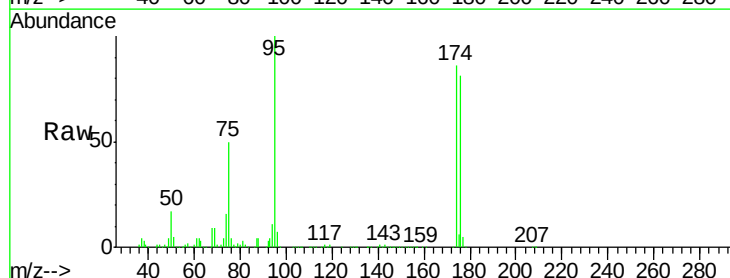
Acq: 05 Jun 2020 14:24

Tgt Ion: 75 Resp: 87911

Ion Ratio Lower Upper

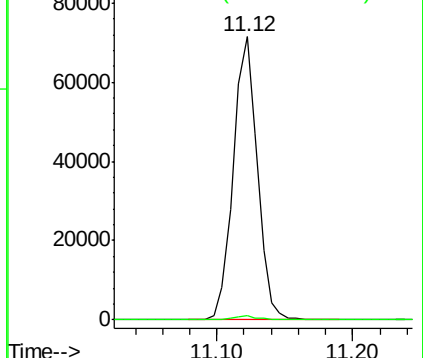
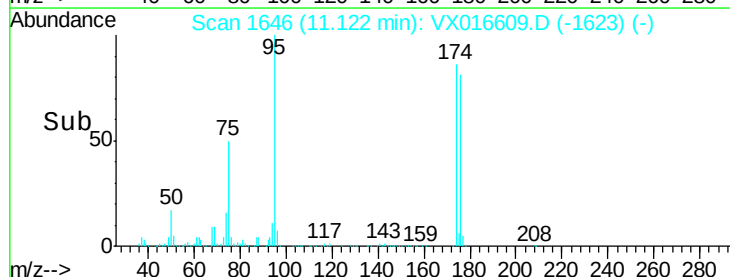
75 100

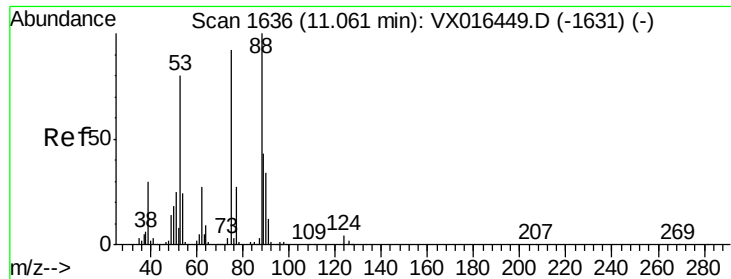
77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.82 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.06 min  
 Lab File: VX016609.D  
 Acq: 05 Jun 2020 14:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS032MW008-200602DL

Tgt Ion: 75 Resp: 87911  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 71.3 106.9#  
 89 0.0 36.6 55.0#

