

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040220\  
 Data File : VX015482.D  
 Acq On : 02 Apr 2020 15:21  
 Operator : JC/SP  
 Sample : PB127948ZHE#04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB127948ZHE#04

Quant Time: Apr 03 08:02:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1103894  | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1782037  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1681862  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 898939   | 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   | 749241   | 48.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.24%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 568934   | 49.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.88%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 2136236  | 50.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.88% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 925919   | 54.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.64% |          |

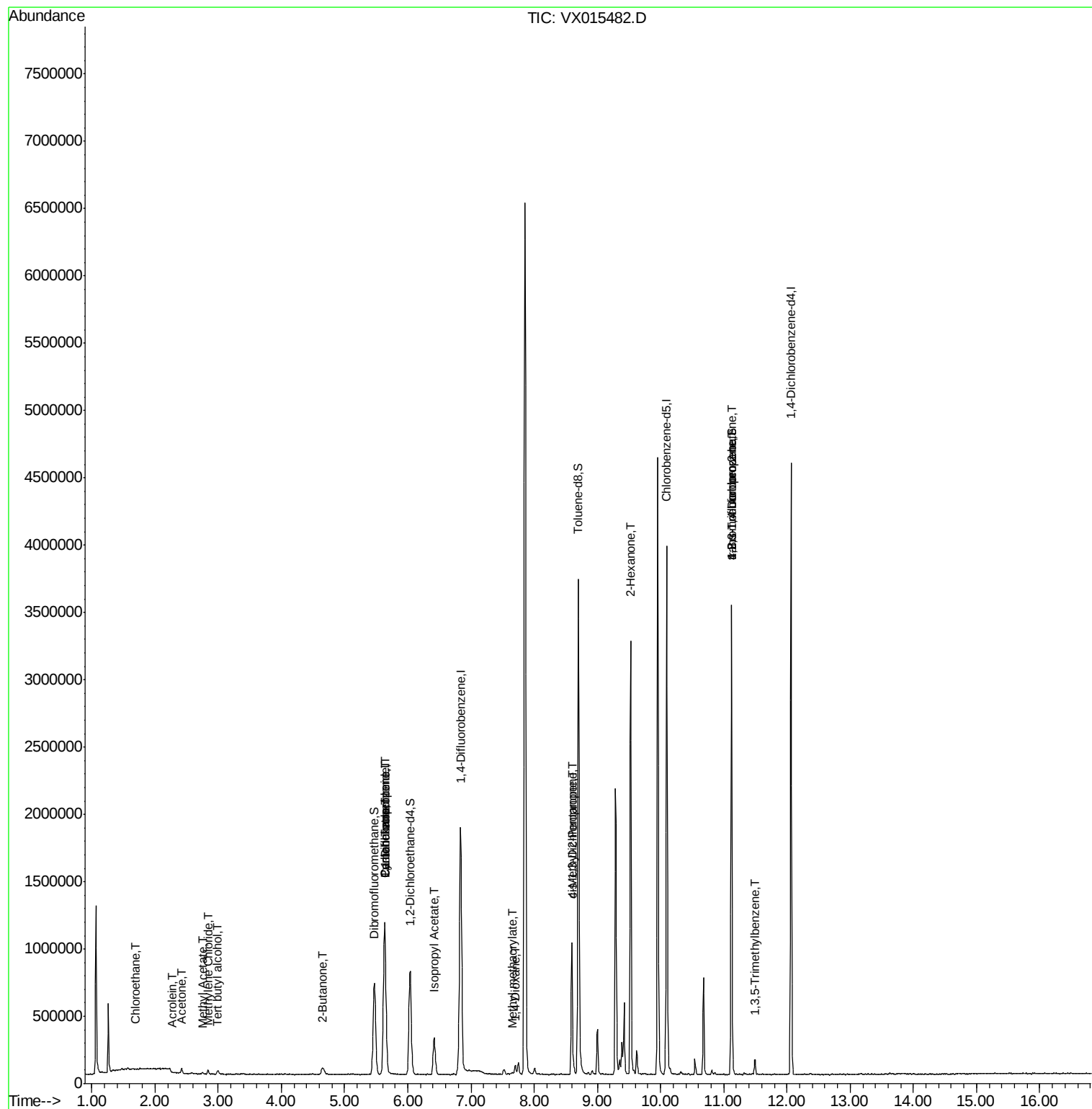
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.62  | 94   | 373      | Below Cal | #      | 63     |
| 6) Chloroethane                | 1.69  | 64   | 1957     | 0.277     | ug/l # | 51     |
| 11) Tert butyl alcohol         | 2.99  | 59   | 18133    | 4.866     | ug/l # | 73     |
| 13) Acrolein                   | 2.28  | 56   | 484      | 0.228     | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43   | 46217    | 6.910     | ug/l   | 99     |
| 18) Methyl Acetate             | 2.76  | 43   | 13326    | 0.781     | ug/l # | 90     |
| 20) Methylene Chloride         | 2.84  | 84   | 13199    | 1.056     | ug/l   | 90     |
| 25) 2-Butanone                 | 4.65  | 43   | 11344    | 1.055     | ug/l # | 77     |
| 31) Cyclohexane                | 5.64  | 56   | 23162    | 1.175     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 84945    | 5.173     | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 104004   | 5.848     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 6.42  | 43   | 389383   | 10.789    | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.65  | 41   | 19948    | 1.107     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.71  | 88   | 788      | 2.343     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 378864   | 18.523    | ug/l # | 52     |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 151795   | 6.909     | ug/l # | 55     |
| 59) 2-Hexanone                 | 9.53  | 43   | 408166   | 26.433    | ug/l # | 51     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 469616   | 25.404    | ug/l # | 35     |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 47603    | 0.946     | ug/l   | 95     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 469616   | 60.956    | ug/l # | 10     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

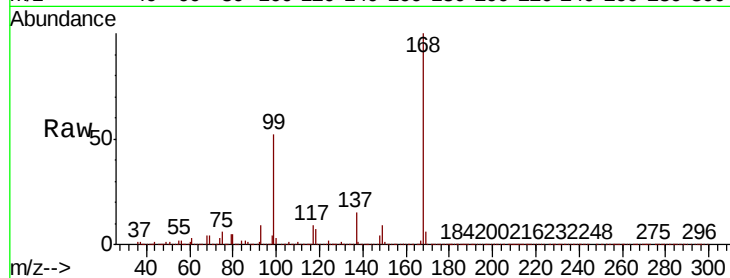
PB127948ZHE#04

Tot Ion:168 Resp: 1103894

Ion Ratio Lower Upper

168 100

99 51.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

400000

300000

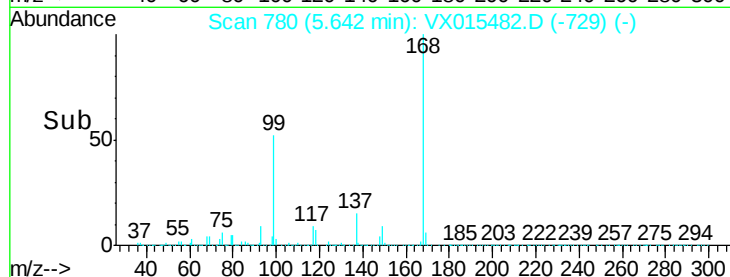
200000

100000

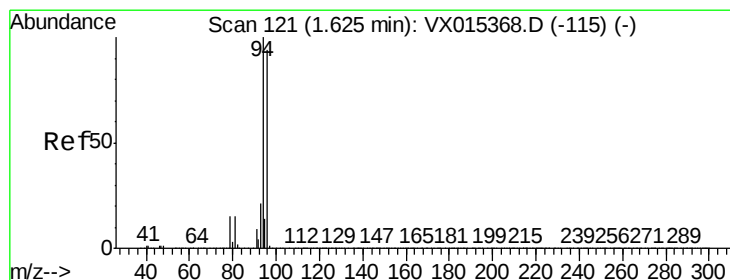
0

5.50 5.60 5.70 5.80

5.64



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015482.D

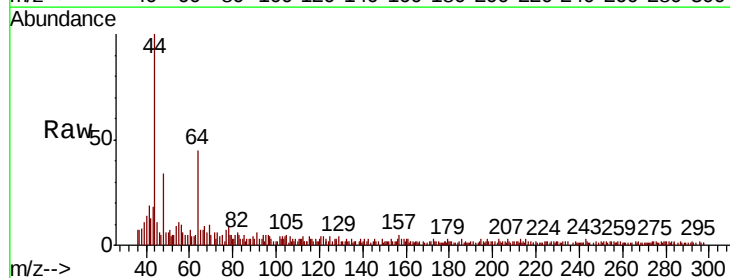
Acq: 02 Apr 2020 15:21

Tgt Ion: 94 Resp: 373

Ion Ratio Lower Upper

94 100

96 57.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

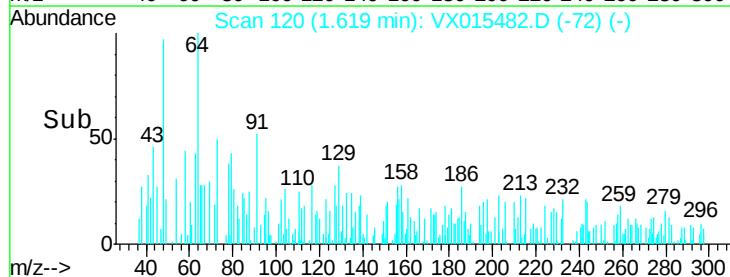
400

200

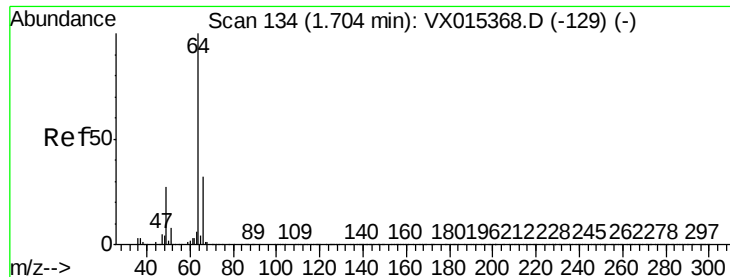
0

1.60 1.61 1.62 1.63

1.62



Time-->



#6

Chloroethane

Concen: 0.277 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

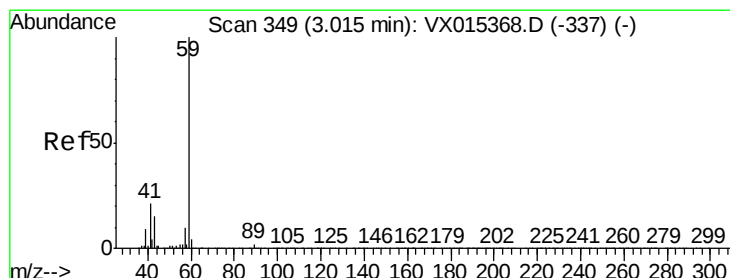
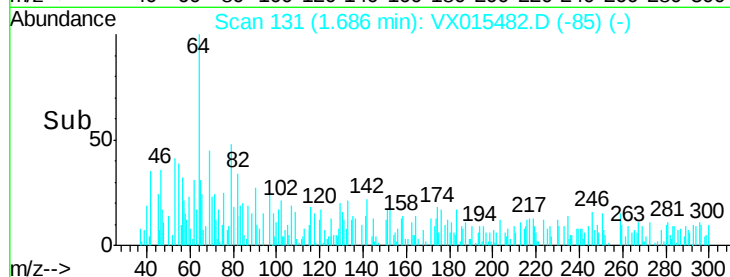
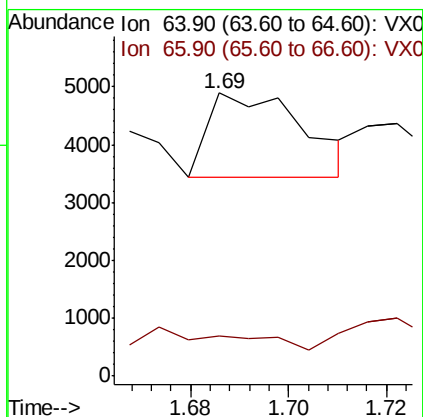
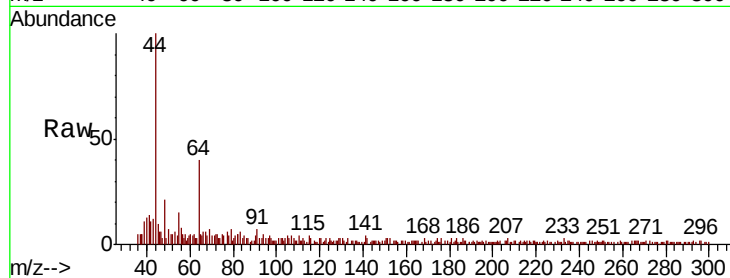
PB127948ZHE#04

Tot Ion: 64 Resp: 1957

Ion Ratio Lower Upper

64 100

66 4.8 25.4 38.2#



#11

Tert butyl alcohol

Concen: 4.866 ug/l

RT: 2.99 min Scan# 345

Delta R.T. -0.02 min

Lab File: VX015482.D

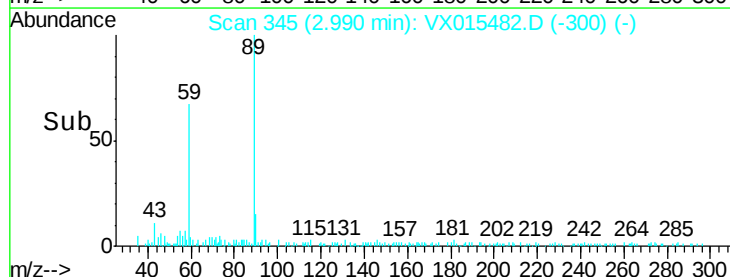
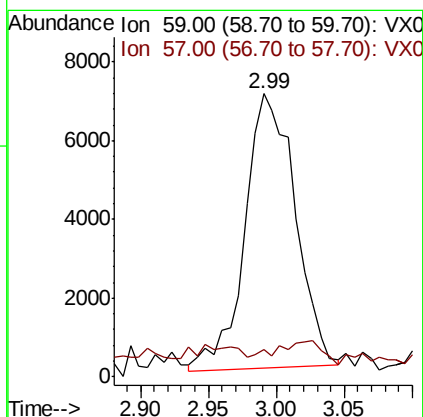
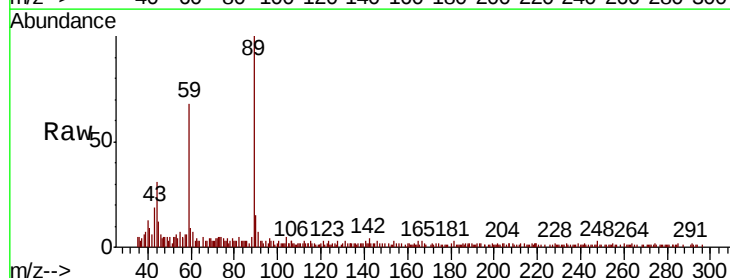
Acq: 02 Apr 2020 15:21

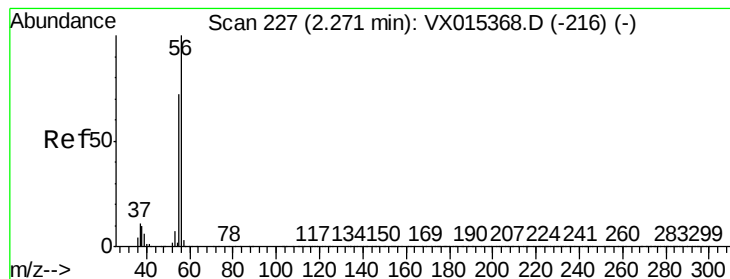
Tgt Ion: 59 Resp: 18133

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#13

Acrolein

Concen: 0.228 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

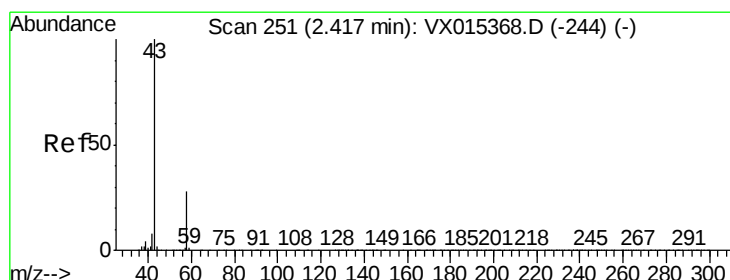
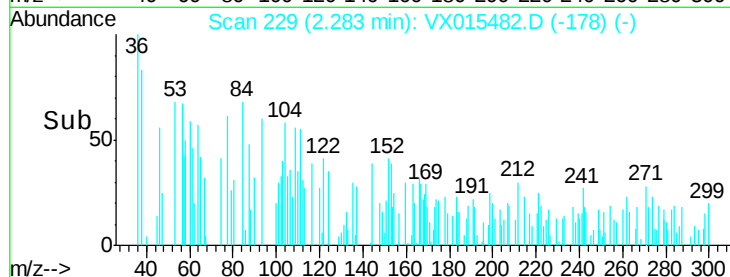
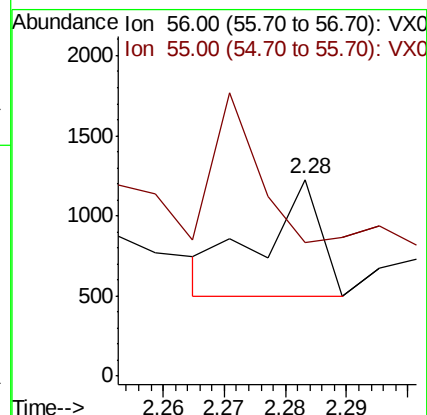
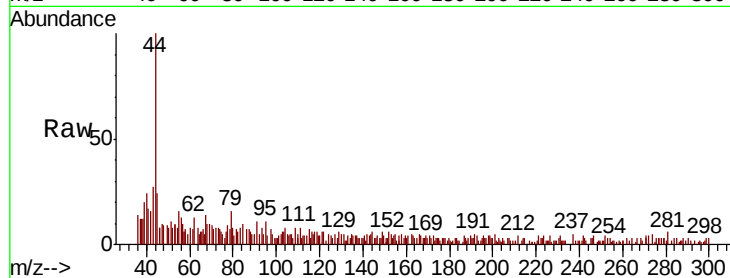
PB127948ZHE#04

Tot Ion: 56 Resp: 484

Ion Ratio Lower Upper

56 100

55 155.4 57.0 85.4#



#16

Acetone

Concen: 6.910 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015482.D

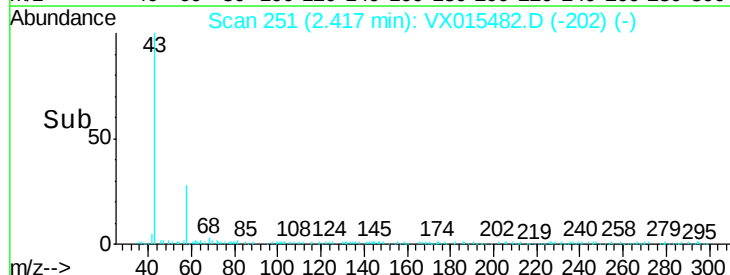
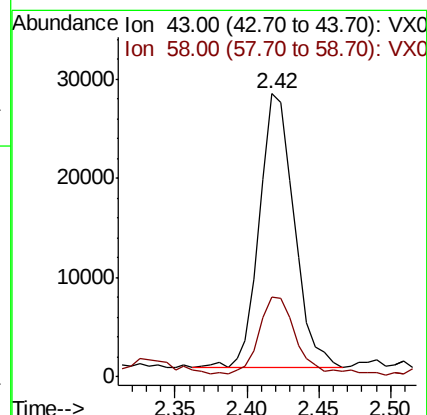
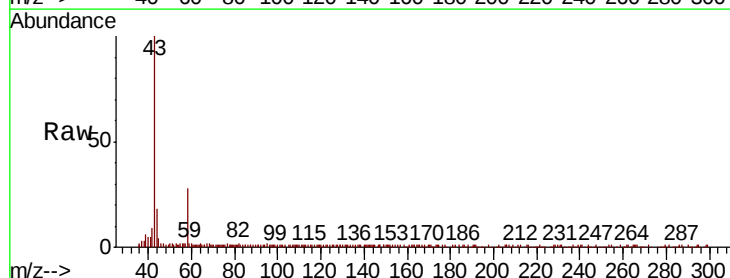
Acq: 02 Apr 2020 15:21

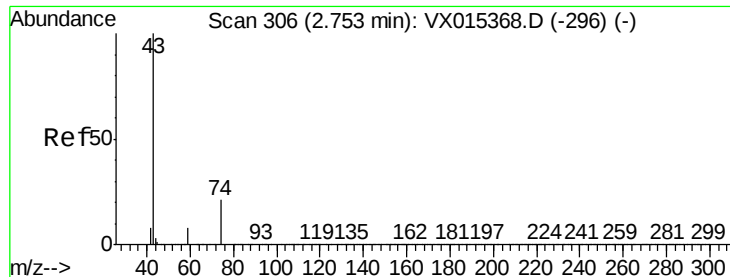
Tgt Ion: 43 Resp: 46217

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1

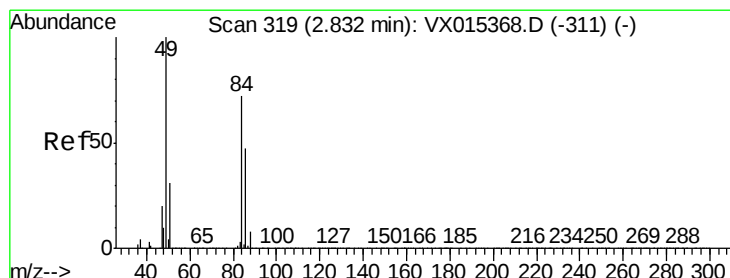
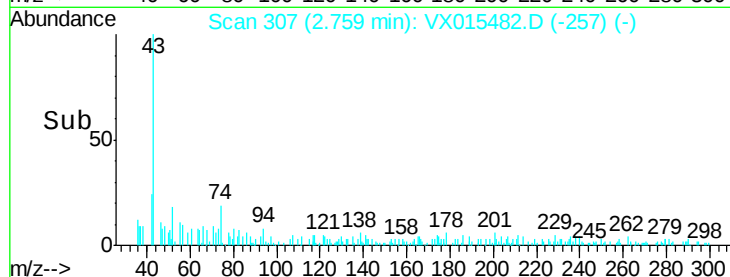
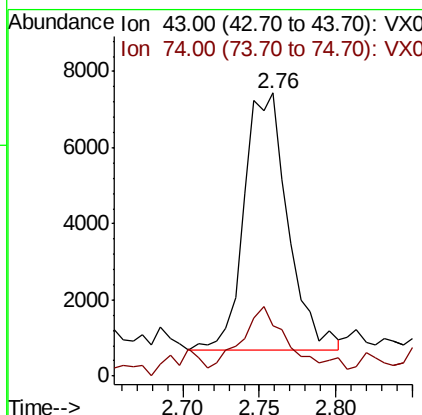
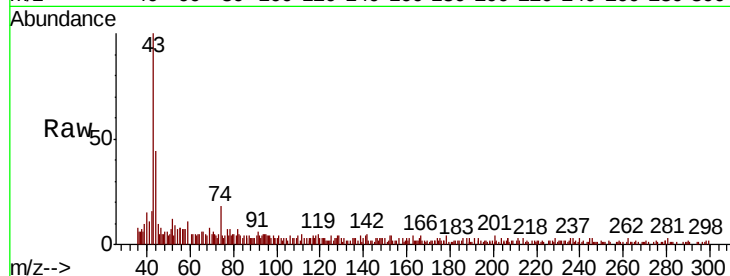




#18  
Methyl Acetate  
Concen: 0.781 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. 0.01 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

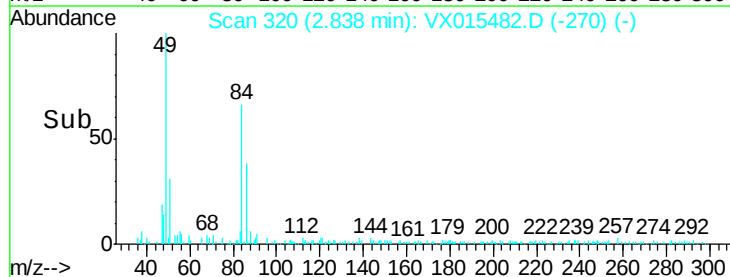
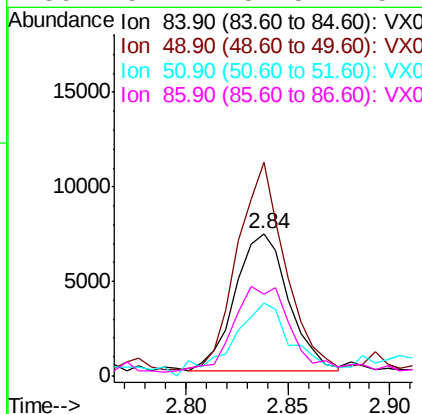
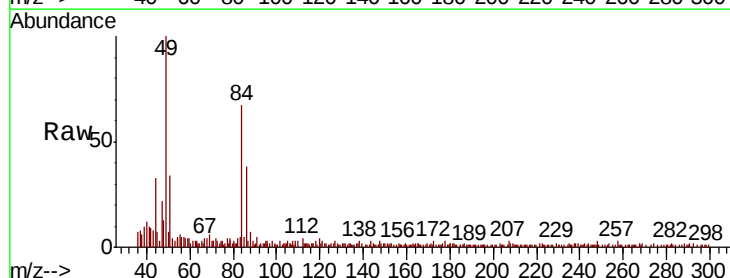
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB127948ZHE#04

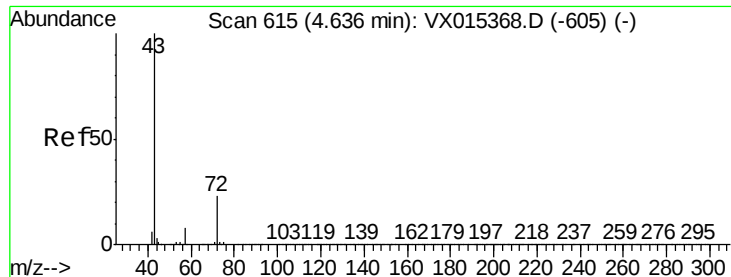
Tot Ion: 43 Resp: 13326  
Ion Ratio Lower Upper  
43 100  
74 25.3 16.5 24.7#



#20  
Methylene Chloride  
Concen: 1.056 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

Tgt Ion: 84 Resp: 13199  
Ion Ratio Lower Upper  
84 100  
49 150.4 111.3 166.9  
51 47.1 34.0 51.0  
86 54.2 52.5 78.7





#25

2-Butanone

Concen: 1.055 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

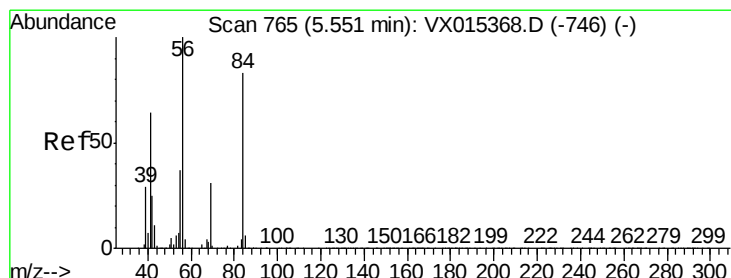
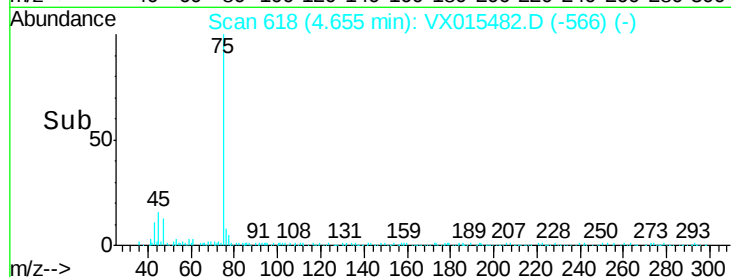
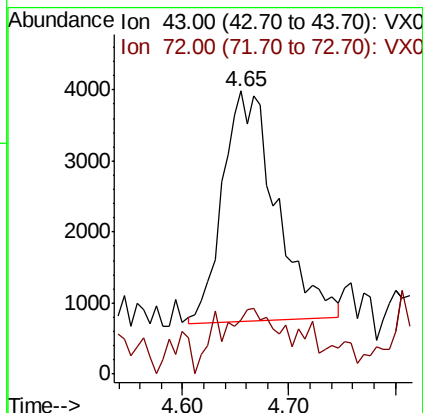
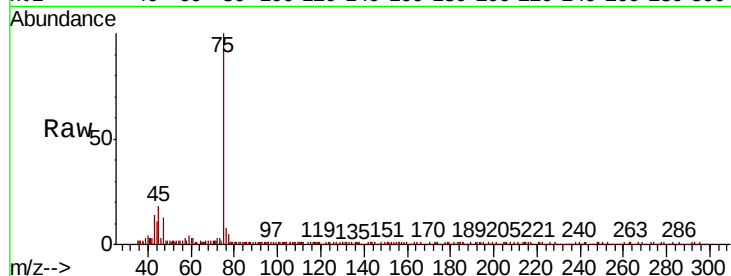
PB127948ZHE#04

Tot Ion: 43 Resp: 11344

Ion Ratio Lower Upper

43 100

72 12.5 19.0 28.4#



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.09 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

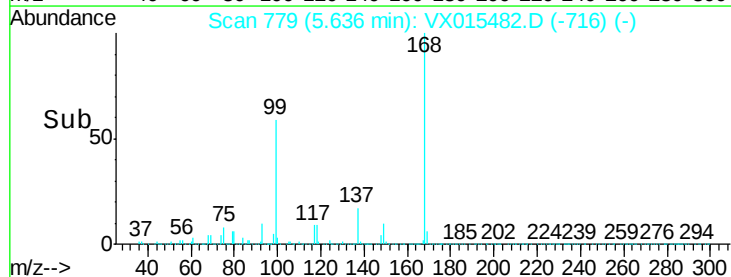
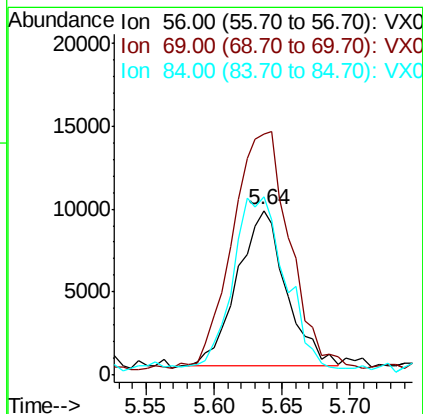
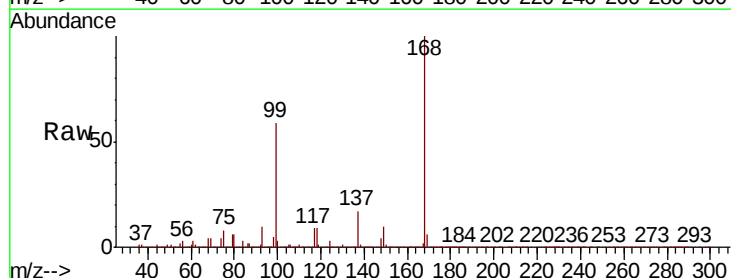
Tgt Ion: 56 Resp: 23162

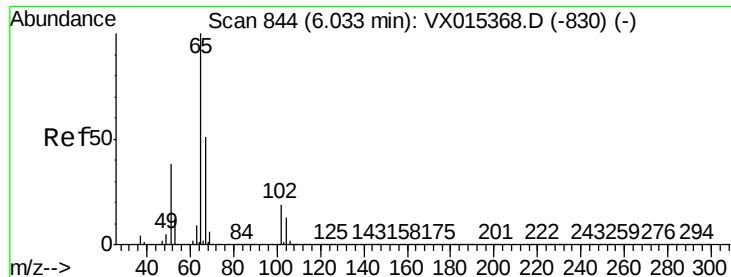
Ion Ratio Lower Upper

56 100

69 148.7 24.6 36.8#

84 110.8 66.1 99.1#





#33

1,2-Dichloroethane-d4

Concen: 48.123 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

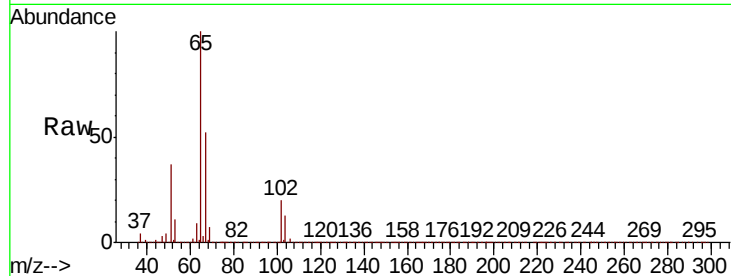
PB127948ZHE#04

Tot Ion: 65 Resp: 749241

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

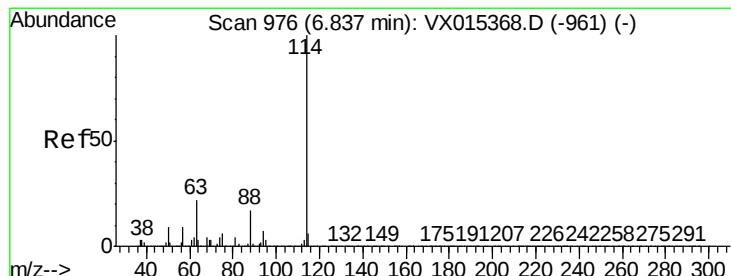
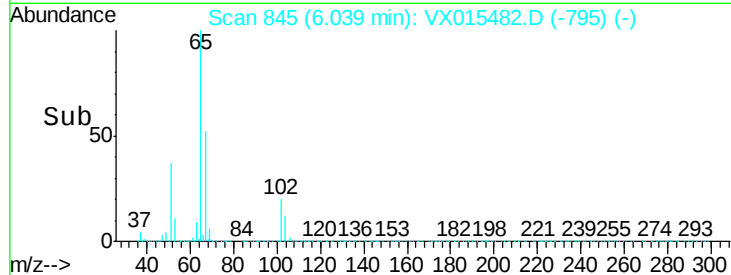
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

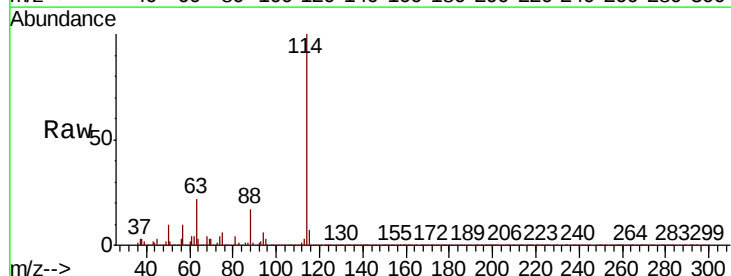
Tgt Ion: 114 Resp: 1782037

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.2

88 16.9 0.0 33.8



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

1000000

800000

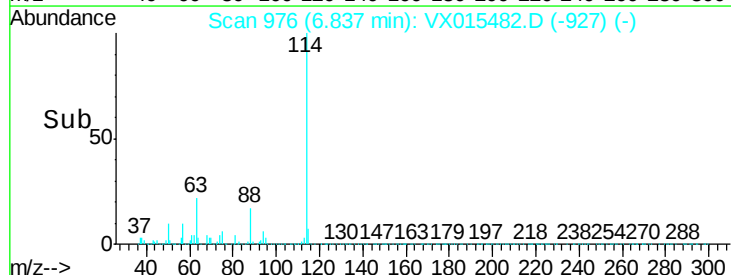
600000

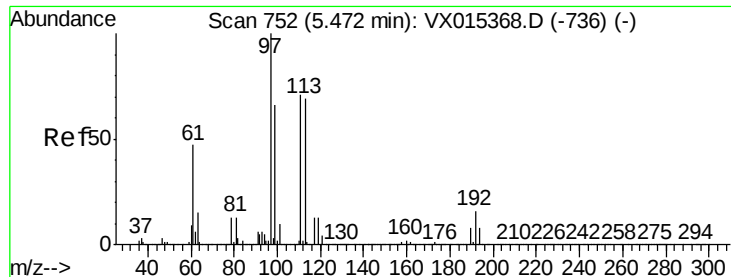
400000

200000

0

Time-->

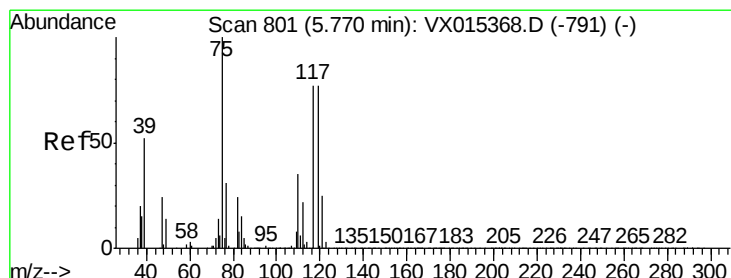
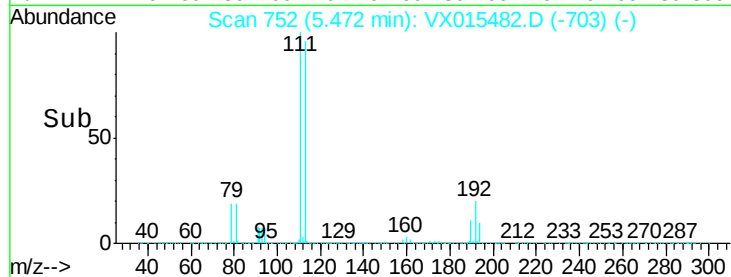
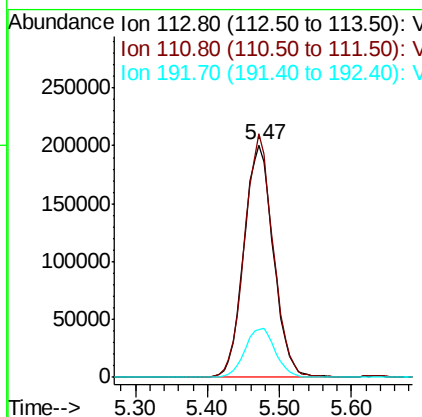
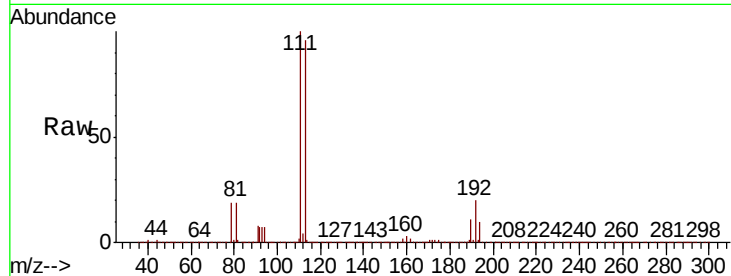




#35  
Dibromofluoromethane  
Concen: 49.945 ug/l  
RT: 5.47 min Scan# 752  
Delta R.T. -0.00 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

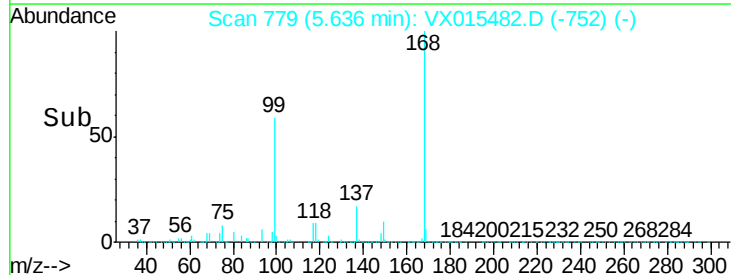
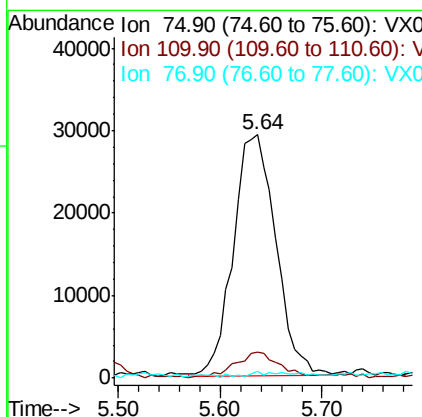
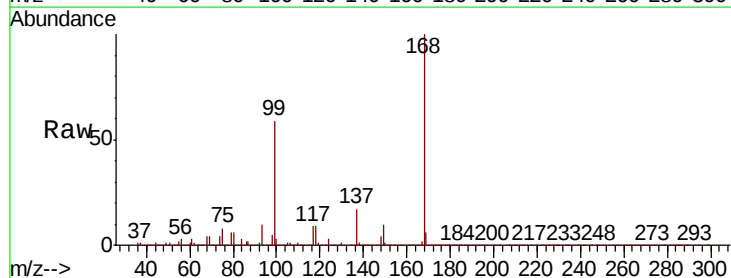
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB127948ZHE#04

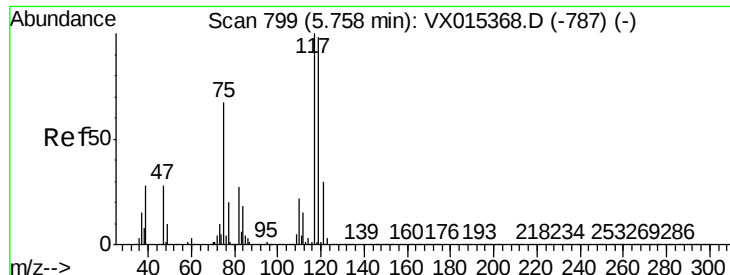
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.5  | 122.3 |
| 192     | 21.8  | 17.8  | 26.6  |



#36  
1,1-Dichloropropene  
Concen: 5.173 ug/l  
RT: 5.64 min Scan# 779  
Delta R.T. -0.13 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.5  | 17.1  | 51.3# |
| 77      | 1.3   | 24.6  | 36.8# |





#38

Carbon Tetrachloride

Concen: 5.848 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

PB127948ZHE#04

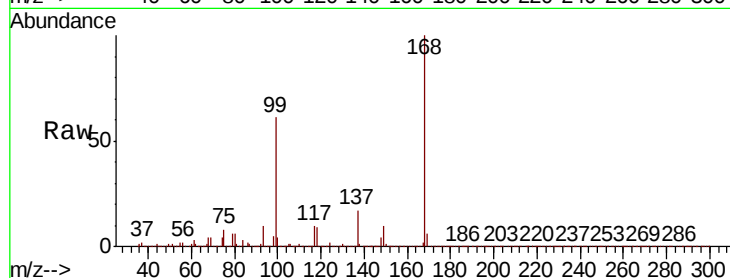
Tot Ion:117 Resp: 104004

Ion Ratio Lower Upper

117 100

119 4.3 78.0 117.0#

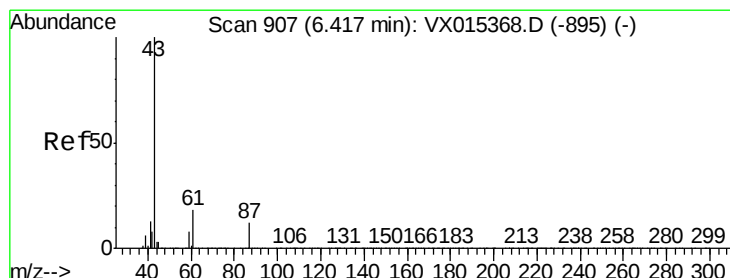
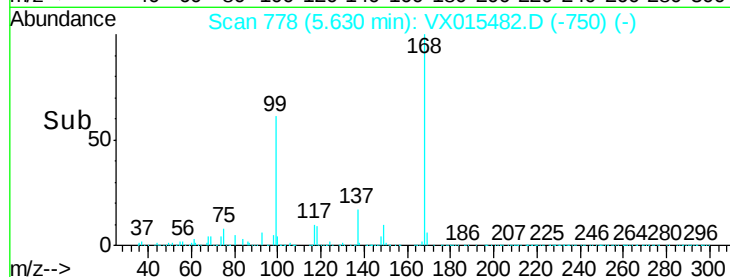
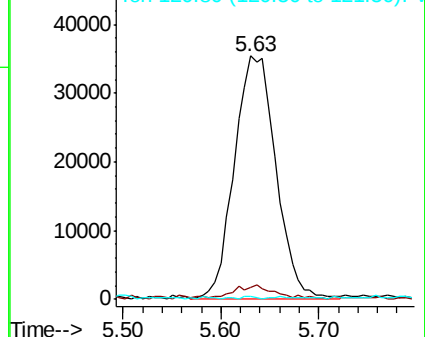
121 0.5 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.789 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

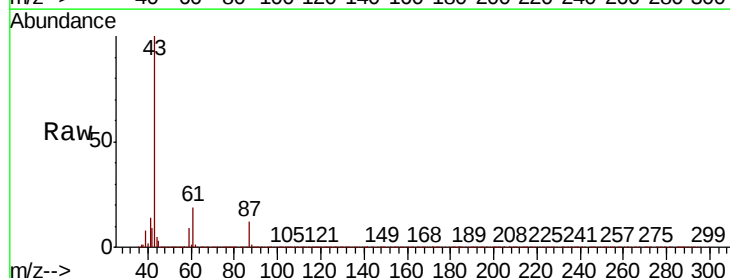
Tgt Ion: 43 Resp: 389383

Ion Ratio Lower Upper

43 100

61 18.9 14.8 22.2

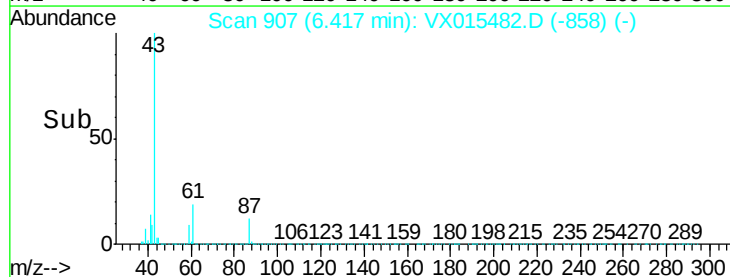
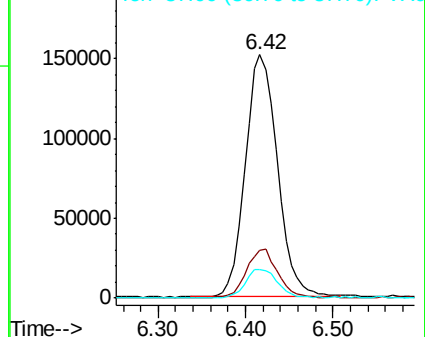
87 11.7 9.4 14.0

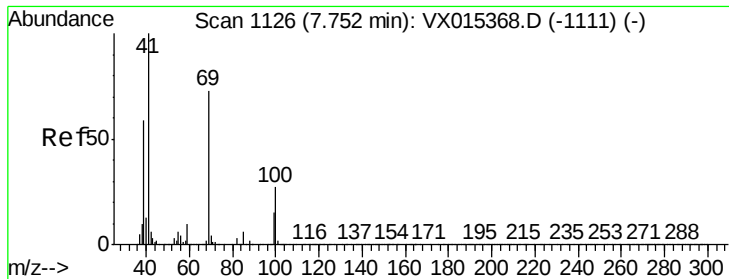


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

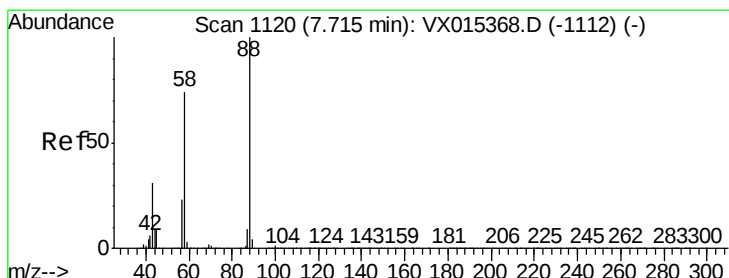
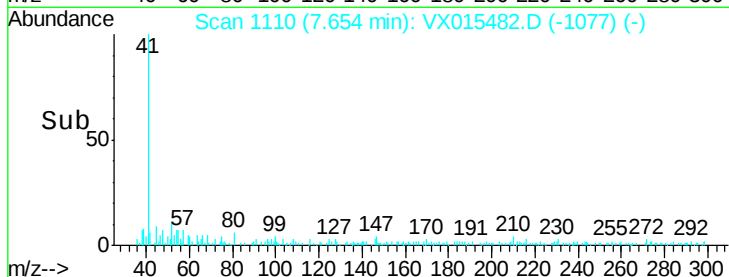
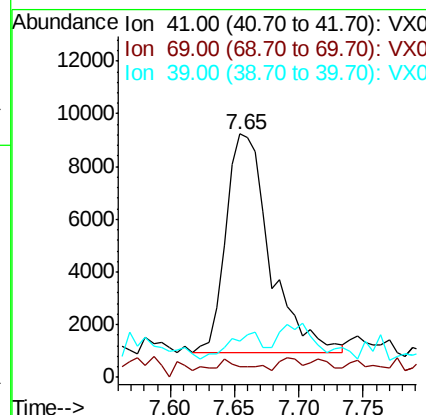
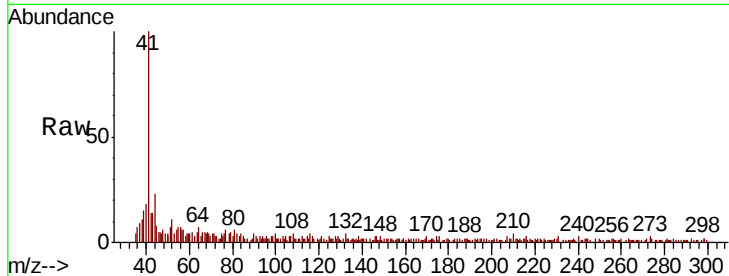




#48  
Methvl methacrylate  
Concen: 1.107 ug/l  
RT: 7.65 min Scan# 1110  
Delta R.T. -0.10 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

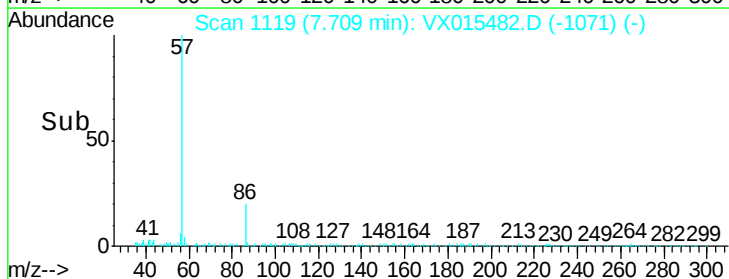
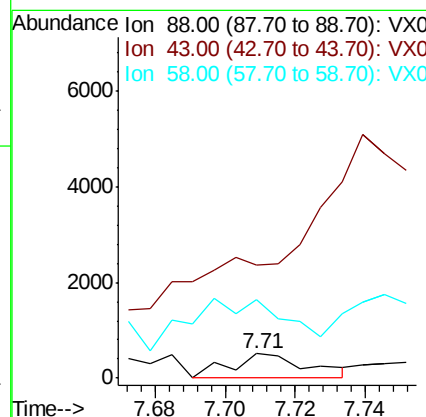
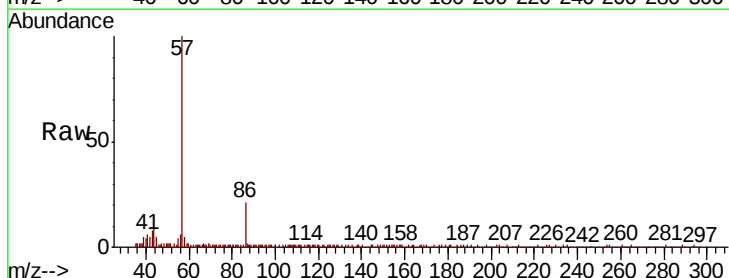
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB127948ZHE#04

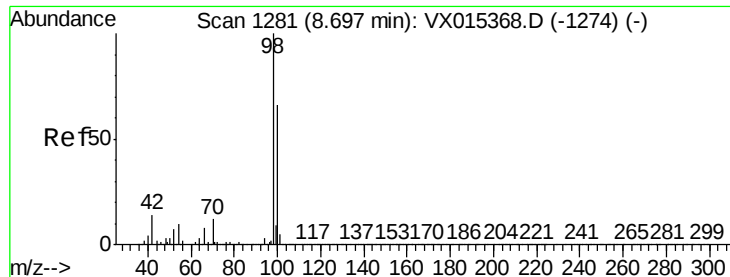
Tot Ion: 41 Resp: 19948  
Ion Ratio Lower Upper  
41 100  
69 1.2 56.7 85.1#  
39 0.0 46.5 69.7#



#49  
1,4-Dioxane  
Concen: 2.343 ug/l  
RT: 7.71 min Scan# 1119  
Delta R.T. -0.01 min  
Lab File: VX015482.D  
Acq: 02 Apr 2020 15:21

Tgt Ion: 88 Resp: 788  
Ion Ratio Lower Upper  
88 100  
43 0.0 30.1 45.1#  
58 0.0 60.6 90.8#





#50

Toluene-d8

Concen: 50.936 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

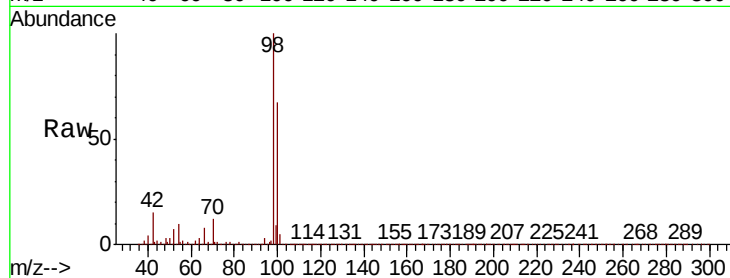
PB127948ZHE#04

Tot Ion: 98 Resp: 2136236

Ion Ratio Lower Upper

98 100

100 66.8 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

1500000

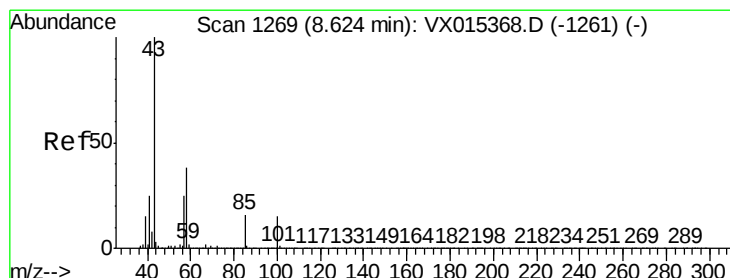
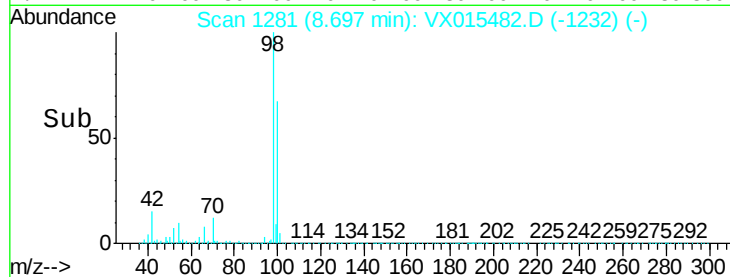
1000000

500000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 18.523 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VX015482.D

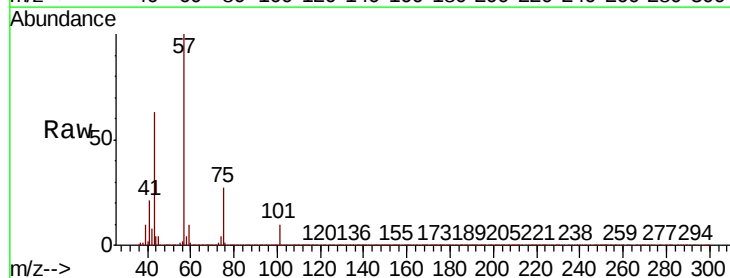
Acq: 02 Apr 2020 15:21

Tgt Ion: 43 Resp: 378864

Ion Ratio Lower Upper

43 100

58 8.7 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

250000

200000

150000

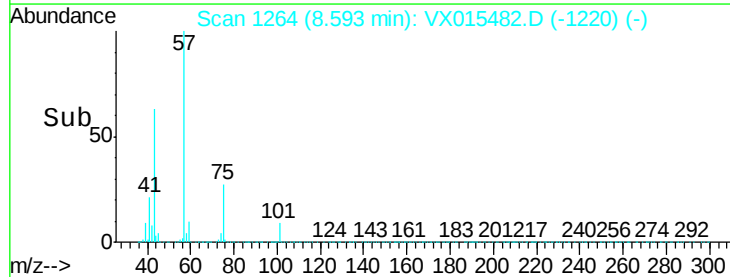
100000

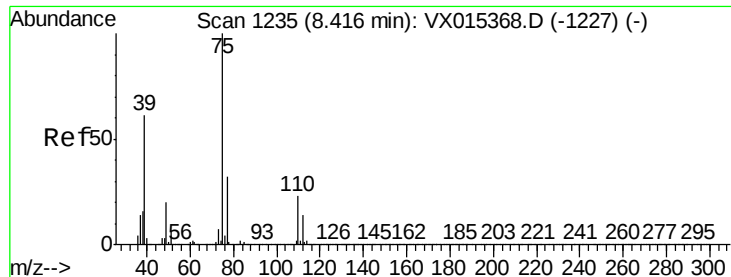
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.909 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

PB127948ZHE#04

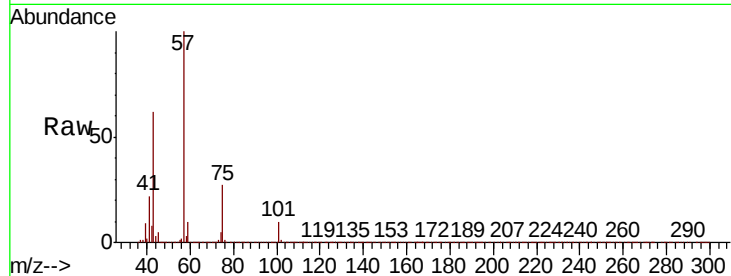
Tot Ion: 75 Resp: 151795

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

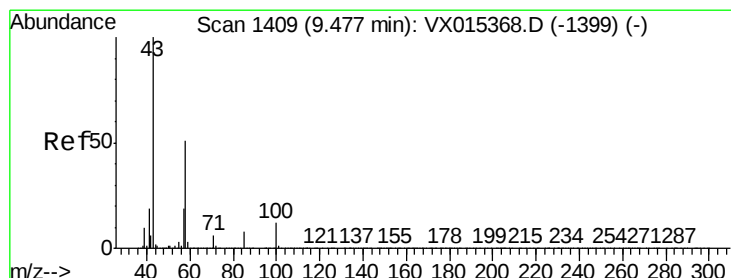
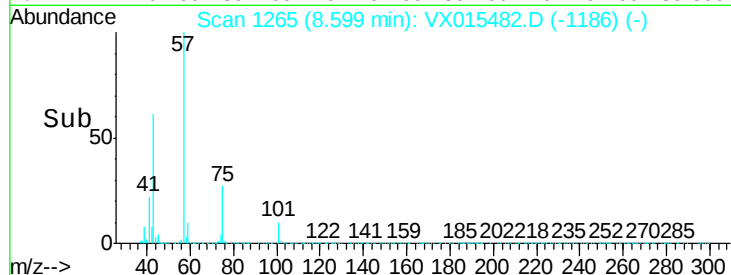
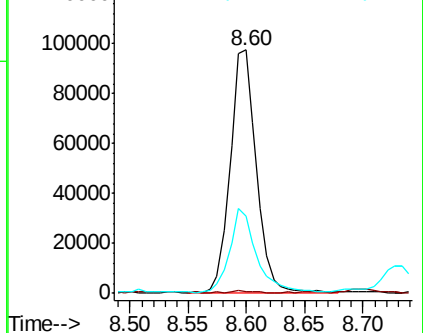
39 31.3 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 26.433 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015482.D

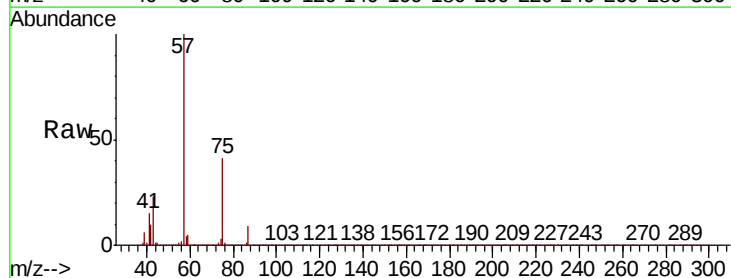
Acq: 02 Apr 2020 15:21

Tgt Ion: 43 Resp: 408166

Ion Ratio Lower Upper

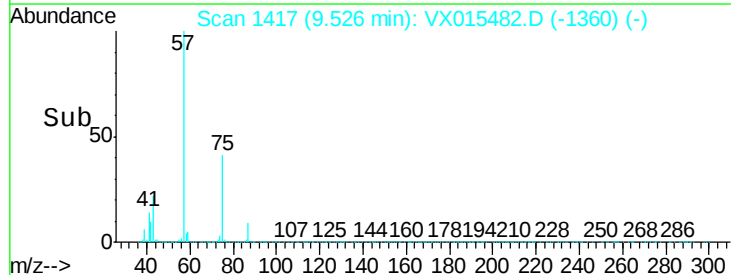
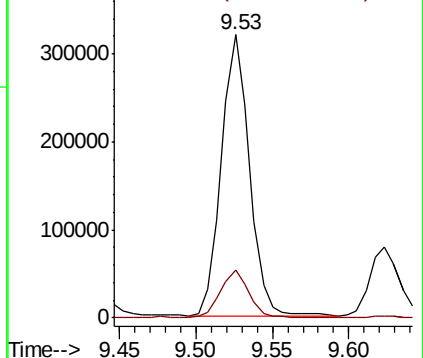
43 100

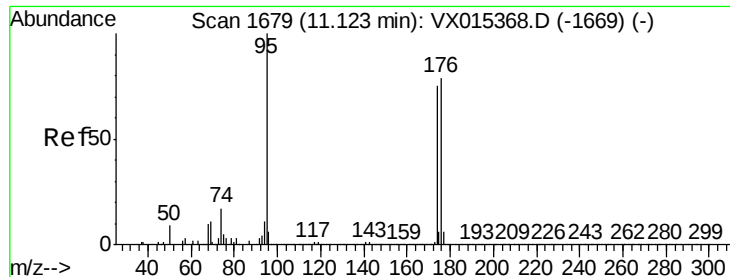
58 16.9 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.324 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

PB127948ZHE#04

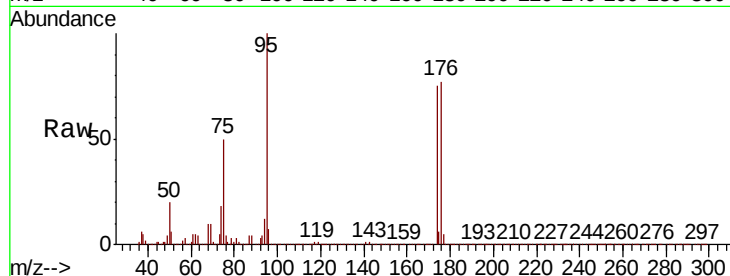
Tot Ion: 95 Resp: 925919

Ion Ratio Lower Upper

95 100

174 77.8 0.0 158.6

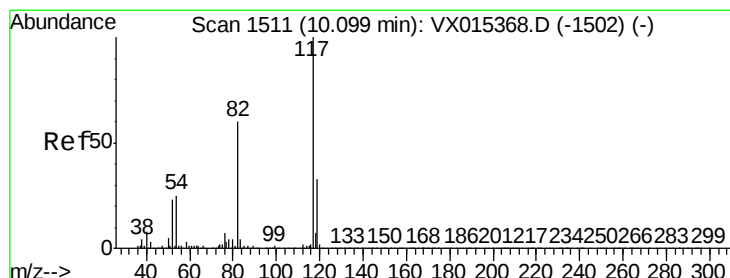
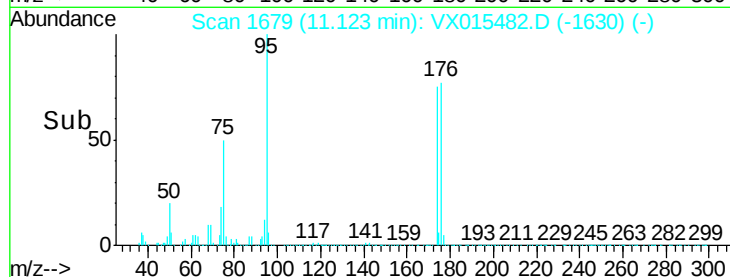
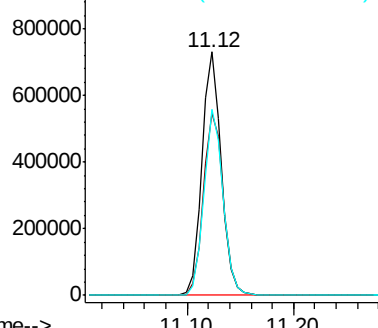
176 75.9 0.0 159.0



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: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

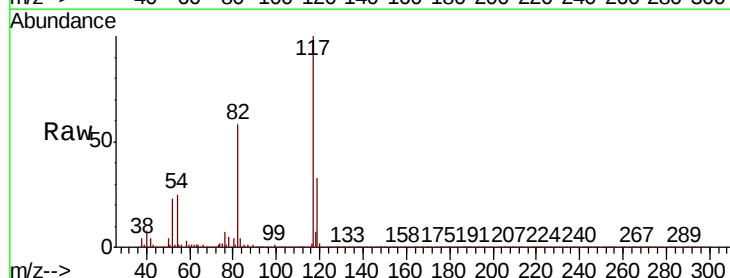
Tgt Ion: 117 Resp: 1681862

Ion Ratio Lower Upper

117 100

82 58.3 47.8 71.8

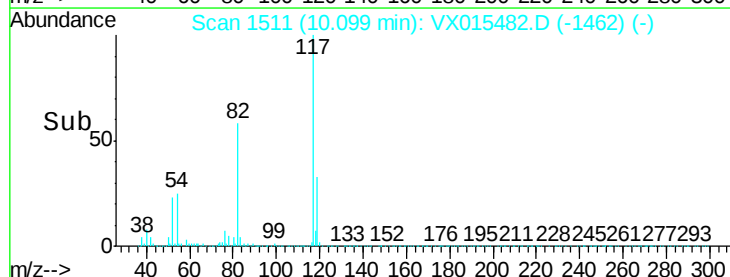
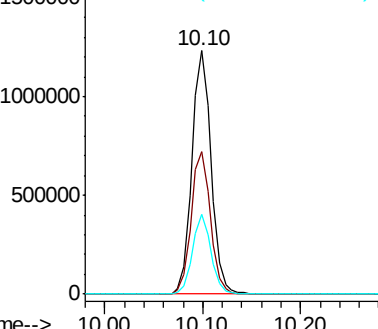
119 32.9 26.8 40.2

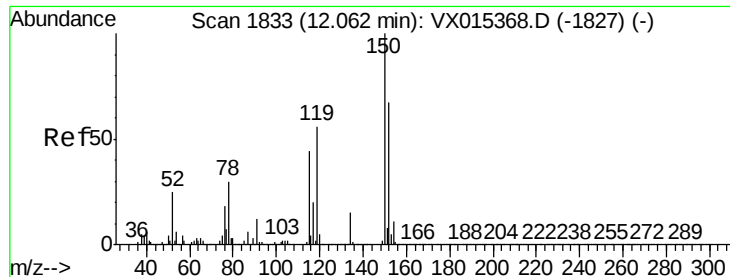


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA\_X

ClientSampleId :

PB127948ZHE#04

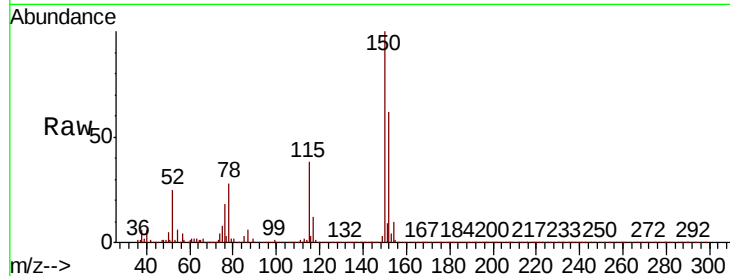
Tot Ion:152 Resp: 898939

Ion Ratio Lower Upper

152 100

115 58.8 39.0 116.9

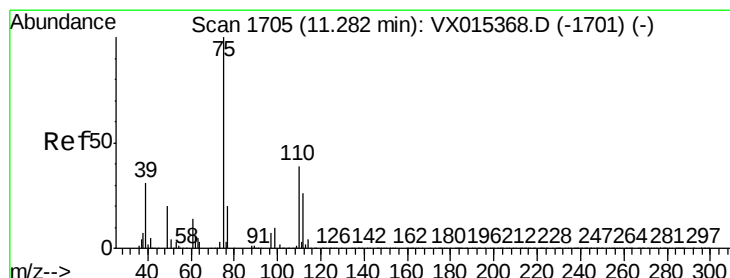
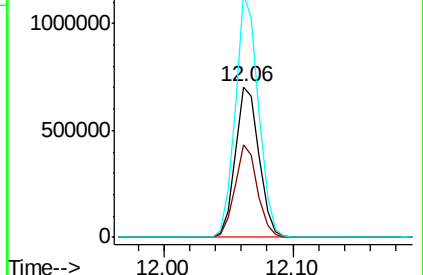
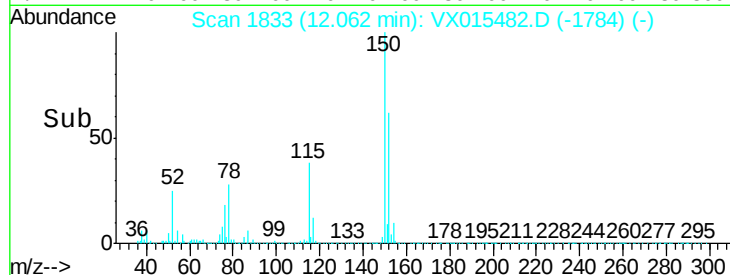
150 157.8 0.0 340.8



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: 25.404 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015482.D

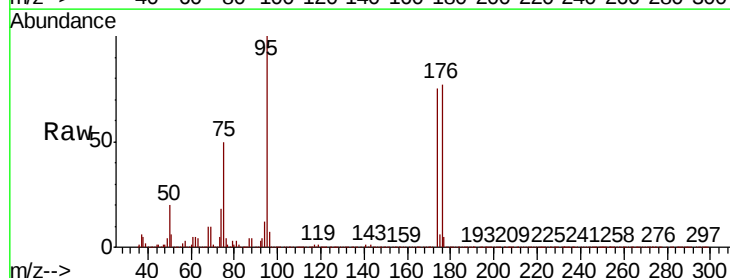
Acq: 02 Apr 2020 15:21

Tgt Ion: 75 Resp: 469616

Ion Ratio Lower Upper

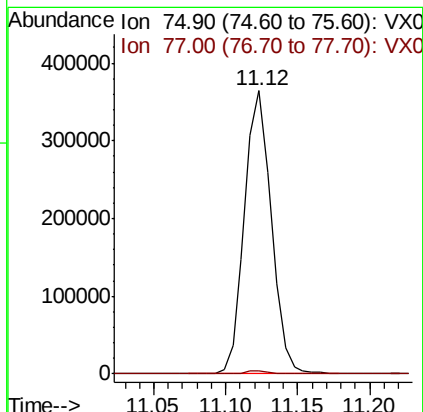
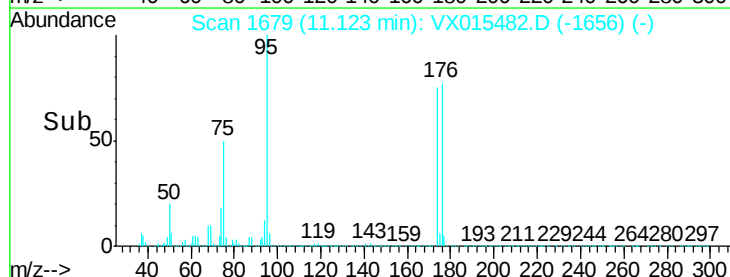
75 100

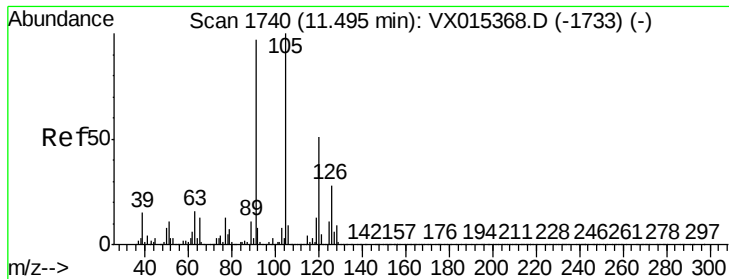
77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

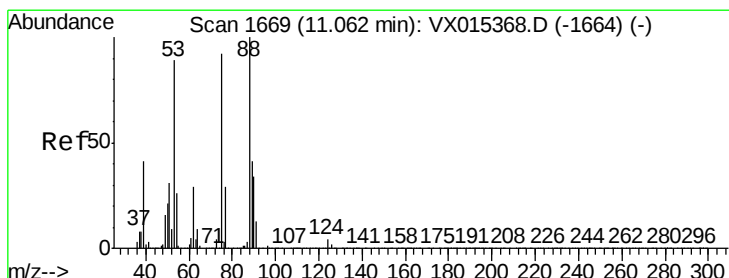
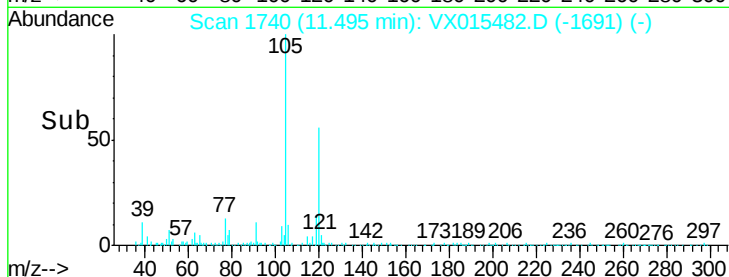
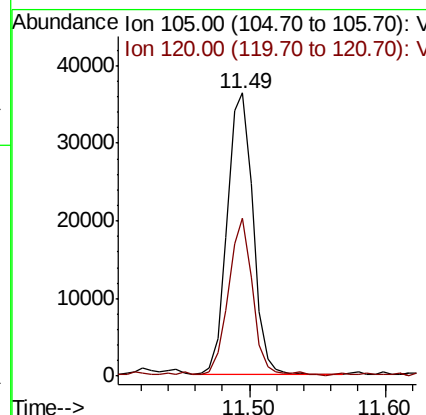
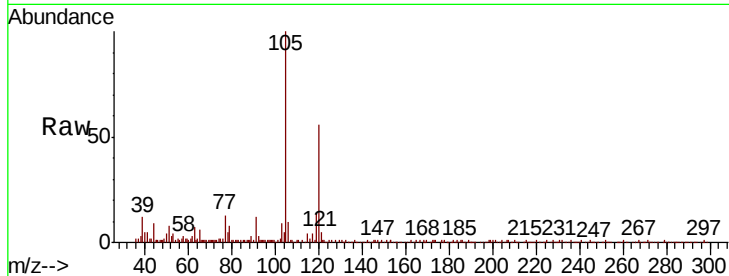




#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.946 ug/l  
 RT: 11.49 min Scan# 1740  
 Delta R.T. -0.00 min  
 Lab File: VX015482.D  
 Acq: 02 Apr 2020 15:21

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB127948ZHE#04

Tot Ion:105 Resp: 47603  
 Ion Ratio Lower Upper  
 105 100  
 120 52.8 24.8 74.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 60.956 ug/l  
 RT: 11.12 min Scan# 1679  
 Delta R.T. 0.06 min  
 Lab File: VX015482.D  
 Acq: 02 Apr 2020 15:21

Tgt Ion: 75 Resp: 469616  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 80.1 120.1#  
 89 0.0 36.1 54.1#

