

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072420\  
 Data File : VX017547.D  
 Acq On : 24 Jul 2020 16:53  
 Operator : JC/SP  
 Sample : L3413-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 20758

Quant Time: Jul 25 01:51:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 438997   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 707850   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 736807   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 476383   | 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   | 306145   | 54.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.58% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 254264   | 53.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.42% |          |
| 50) Toluene-d8              | 8.70  | 98   | 970939   | 56.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.70% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 398294   | 58.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.54% |          |

| Target Compounds            | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|-----------------------------|-------|------|----------|-----------|-------|--------|
| 2) Dichlorodifluoromethane  | 1.18  | 85   | 307      | Below Cal |       | 78     |
| 3) Chloromethane            | 1.31  | 50   | 1577     | 0.655     | ug/l  | 90     |
| 5) Bromomethane             | 1.62  | 94   | 248      | Below Cal | #     | 37     |
| 6) Chloroethane             | 1.72  | 64   | 265      | Below Cal | #     | 55     |
| 8) Diethyl Ether            | 2.17  | 74   | 2224     | Below Cal |       | 87     |
| 11) Tert butyl alcohol      | 3.01  | 59   | 39702    | 33.405    | ug/l  | 97     |
| 13) Acrolein                | 2.29  | 56   | 561      | 4.757     | ug/l  | # 14   |
| 14) Allyl chloride          | 2.58  | 41   | 221910   | 26.802    | ug/l  | # 63   |
| 15) Acrylonitrile           | 3.12  | 53   | 549      | 0.214     | ug/l  | # 69   |
| 16) Acetone                 | 2.42  | 43   | 5067098  | 2041.562  | ug/l  | 97     |
| 17) Carbon Disulfide        | 2.55  | 76   | 3296     | 0.239     | ug/l  | # 54   |
| 18) Methyl Acetate          | 2.75  | 43   | 18291    | 3.129     | ug/l  | 97     |
| 19) Methyl tert-butyl Ether | 3.17  | 73   | 167078   | 10.646    | ug/l  | 97     |
| 20) Methylene Chloride      | 2.85  | 84   | 2669     | Below Cal | #     | 37     |
| 22) Diisopropyl ether       | 3.83  | 45   | 30553    | 2.018     | ug/l  | # 93   |
| 23) Vinyl Acetate           | 3.83  | 43   | 17097    | 1.267     | ug/l  | # 72   |
| 25) 2-Butanone              | 4.64  | 43   | 362806   | 102.897   | ug/l  | 97     |
| 29) Tetrahydrofuran         | 5.10  | 42   | 16402    | 7.510     | ug/l  | # 90   |
| 36) 1,1-Dichloropropene     | 5.63  | 75   | 32791    | 4.830     | ug/l  | # 51   |
| 37) Ethyl Acetate           | 4.79  | 43   | 645544   | 86.906    | ug/l  | 99     |
| 38) Carbon Tetrachloride    | 5.63  | 117  | 43710    | 5.302     | ug/l  | # 17   |
| 40) Benzene                 | 6.12  | 78   | 1056819  | 54.297    | ug/l  | 99     |
| 41) Methacrylonitrile       | 5.08  | 41   | 31209    | 7.330     | ug/l  | # 50   |
| 42) 1,2-Dichloroethane      | 6.11  | 62   | 12285    | 1.543     | ug/l  | 82     |
| 43) Isopropyl Acetate       | 6.42  | 43   | 9125     | 0.745     | ug/l  | # 65   |
| 49) 1,4-Dioxane             | 7.73  | 88   | 264      | 2.267     | ug/l  | # 22   |
| 51) 4-Methyl-2-Pentanone    | 8.62  | 43   | 10815    | 1.479     | ug/l  | 99     |
| 52) Toluene                 | 8.77  | 92   | 2572497  | 206.091   | ug/l  | 100    |
| 53) t-1,3-Dichloropropene   | 8.77  | 75   | 31864    | 3.710     | ug/l  | # 1    |
| 59) 2-Hexanone              | 9.48  | 43   | 19413    | 3.526     | ug/l  | 95     |
| 67) Ethyl Benzene           | 10.24 | 91   | 641407   | 24.093    | ug/l  | 98     |
| 68) m/p-Xylenes             | 10.34 | 106  | 1147397  | 111.254   | ug/l  | 96     |
| 69) o-Xylene                | 10.68 | 106  | 1097783  | 110.674   | ug/l  | 99     |
| 70) Styrene                 | 10.68 | 104  | 65299    | 3.869     | ug/l  | # 1    |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

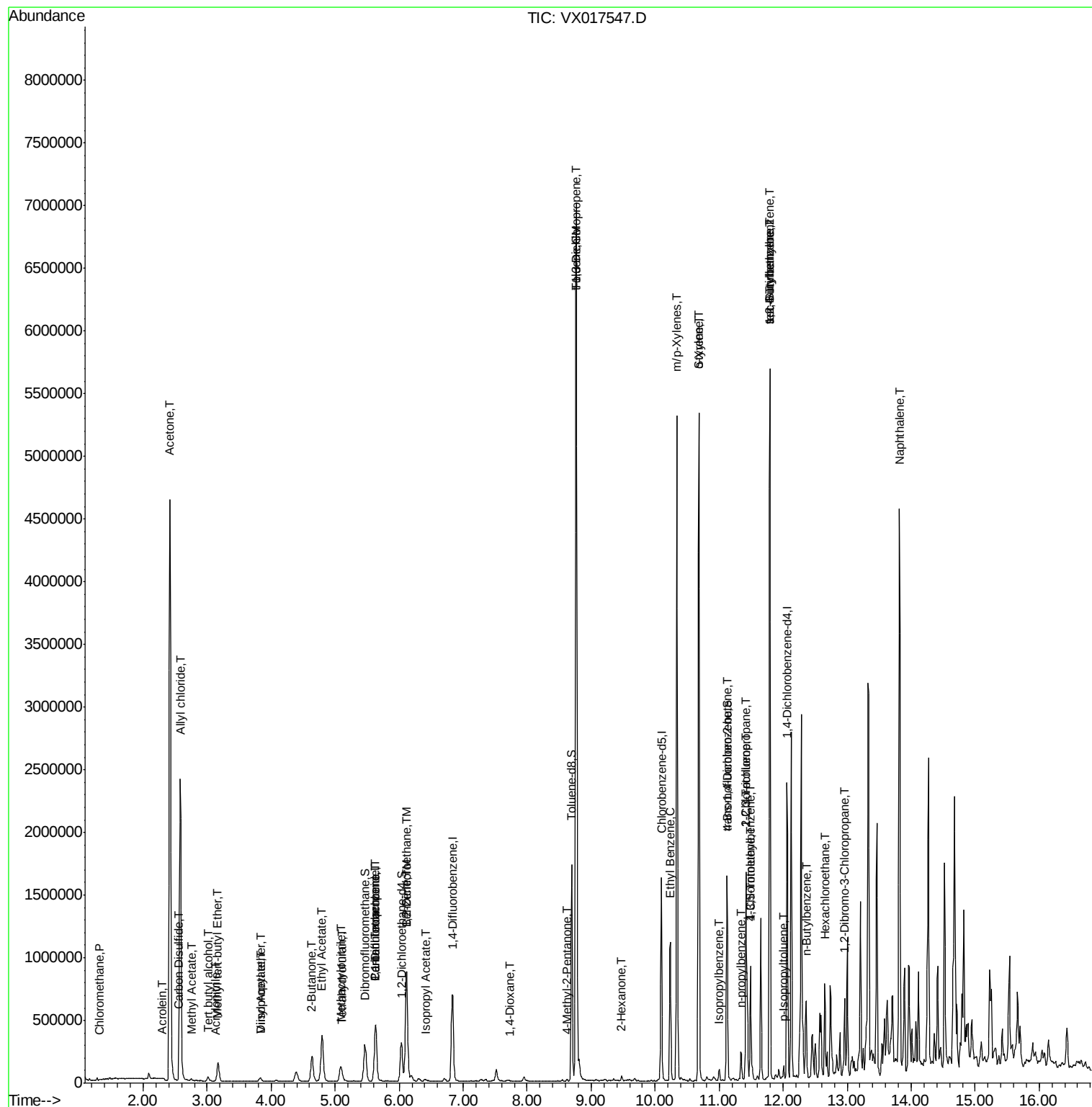
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 73) Isopropylbenzene           | 11.00 | 105  | 45155    | 1.382  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.42 | 75   | 9667     | 0.986  | ug/l # | 1        |
| 78) n-propylbenzene            | 11.34 | 91   | 135456   | 3.675  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 134432   | 5.888  | ug/l # | 40       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 406651   | 14.574 | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 207507   | 53.357 | ug/l # | 11       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 45732    | 1.698  | ug/l # | 46       |
| 83) tert-Butylbenzene          | 11.79 | 119  | 290313   | 10.873 | ug/l # | 57       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 2377913  | 85.681 | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.79 | 105  | 2377913  | 76.454 | ug/l # | 55       |
| 86) p-Isopropyltoluene         | 12.01 | 119  | 43483    | 1.468  | ug/l   | 96       |
| 89) n-Butylbenzene             | 12.37 | 91   | 90057    | 3.412  | ug/l # | 25       |
| 90) Hexachloroethane           | 12.65 | 117  | 29845    | 5.111  | ug/l # | 7        |
| 92) 1,2-Dibromo-3-Chloropropan | 12.96 | 75   | 2269     | 3.323  | ug/l # | 13       |
| 95) Naphthalene                | 13.82 | 128  | 2732905  | 86.870 | ug/l   | 100      |

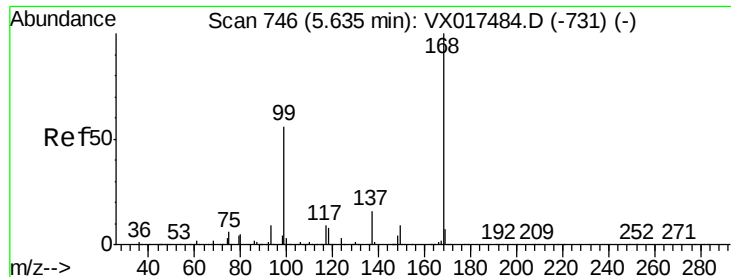
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

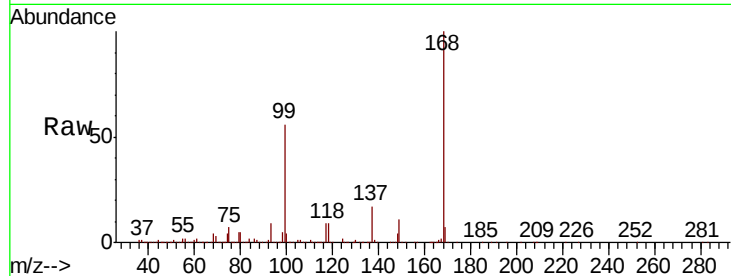
20758

Tot Ion:168 Resp: 438997

Ion Ratio Lower Upper

168 100

99 56.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

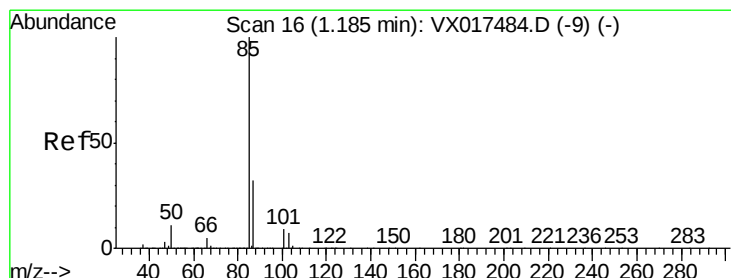
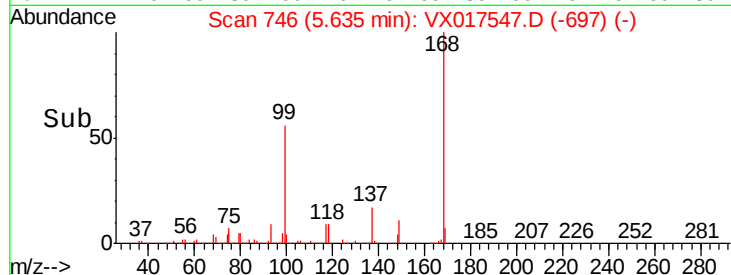
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017547.D

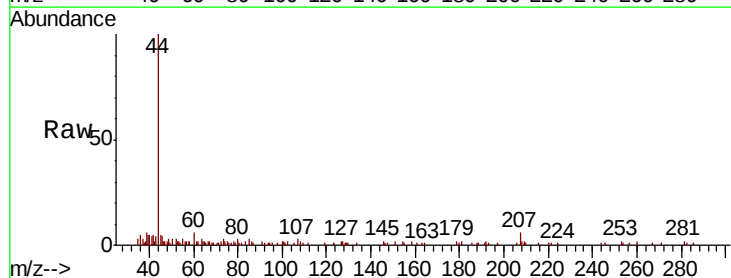
Acq: 24 Jul 2020 16:53

Tgt Ion: 85 Resp: 307

Ion Ratio Lower Upper

85 100

87 44.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

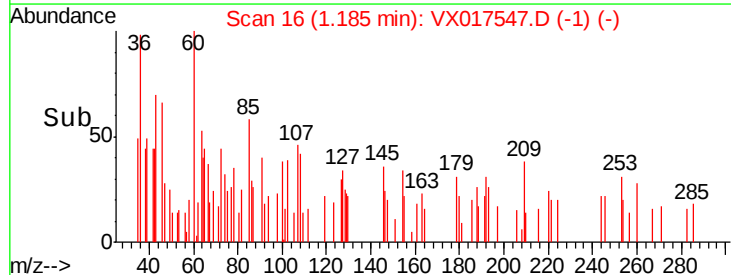
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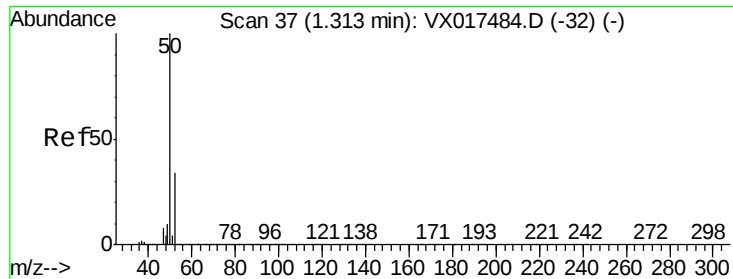
100

0

Time-->

1.15 1.20





#3

Chloromethane

Concen: 0.655 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampled :

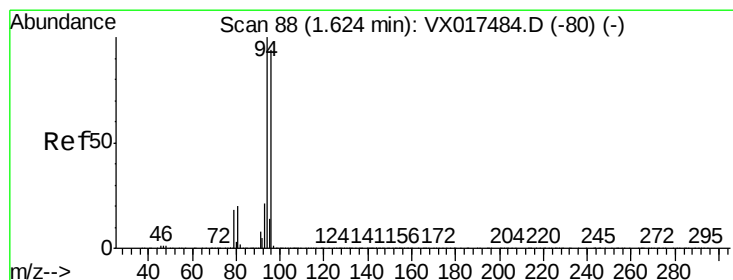
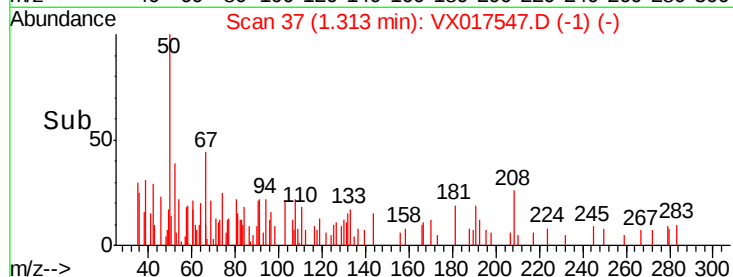
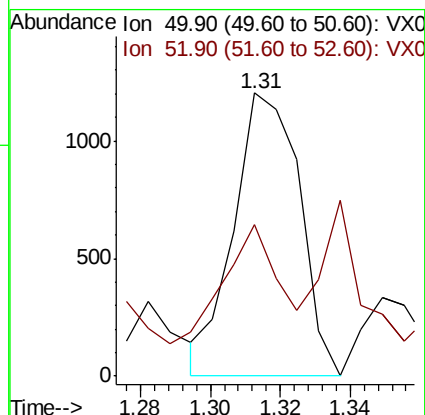
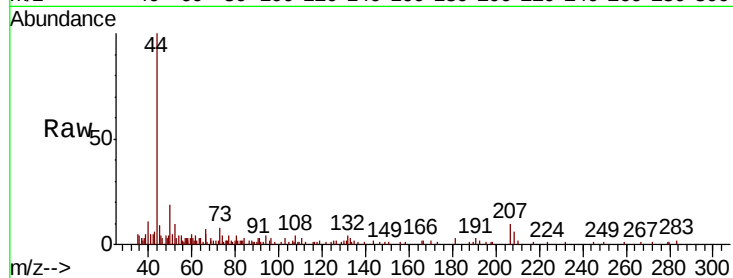
20758

Tot Ion: 50 Resp: 1577

Ion Ratio Lower Upper

50 100

52 37.9 25.9 38.9



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017547.D

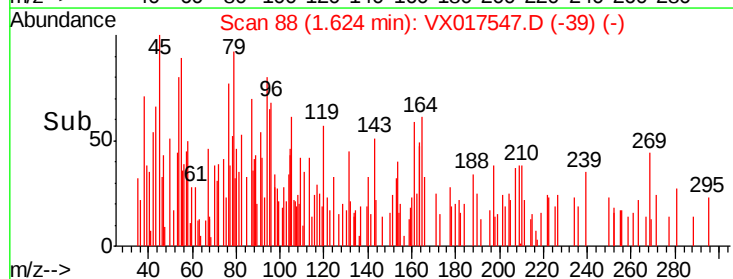
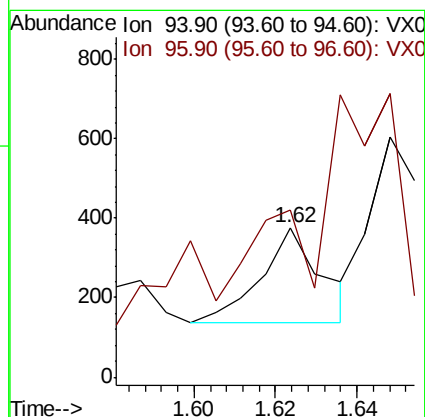
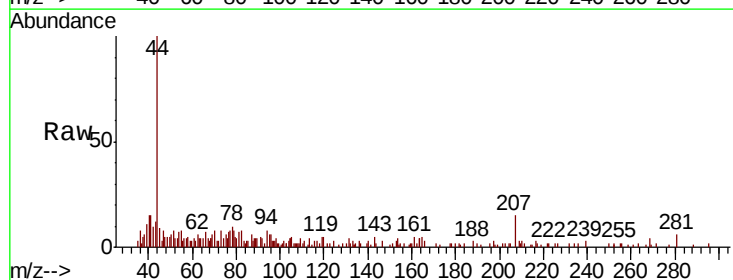
Acq: 24 Jul 2020 16:53

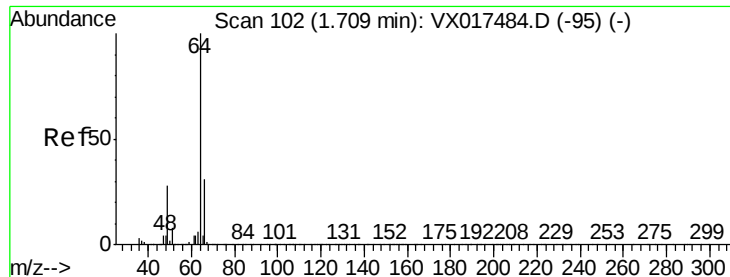
Tgt Ion: 94 Resp: 248

Ion Ratio Lower Upper

94 100

96 32.1 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampled :

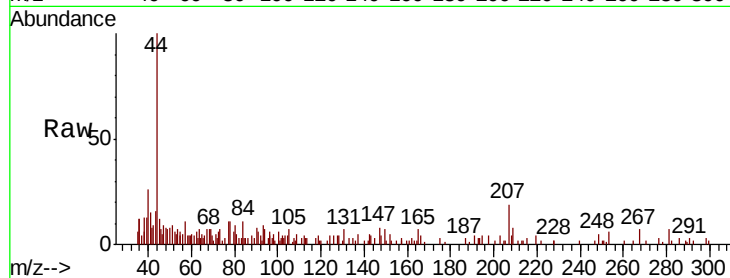
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Tot Ion: 64 Resp: 265

Ion Ratio Lower Upper

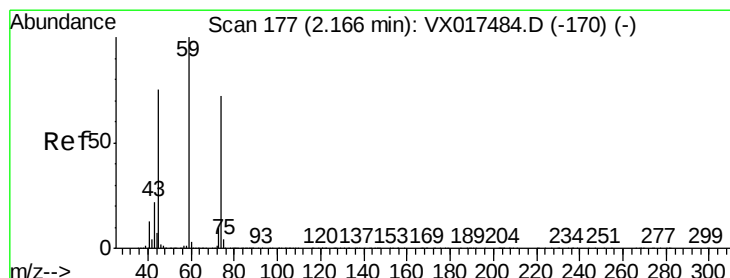
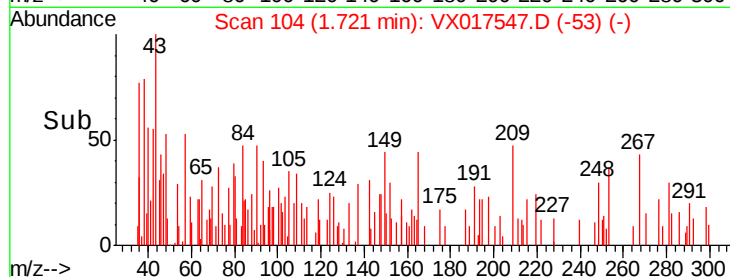
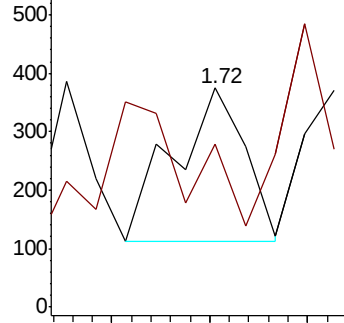
64 100

66 6.5 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017547.D

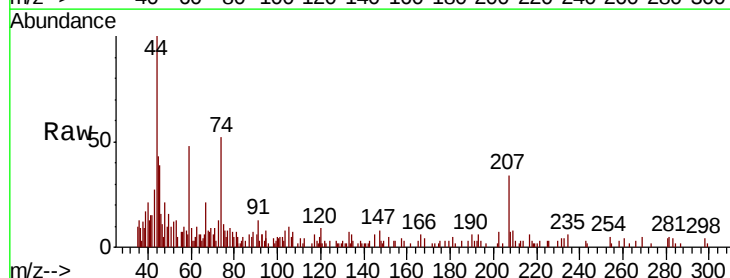
Acq: 24 Jul 2020 16:53

Tgt Ion: 74 Resp: 2224

Ion Ratio Lower Upper

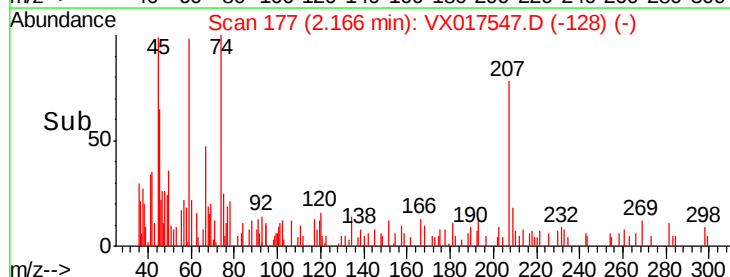
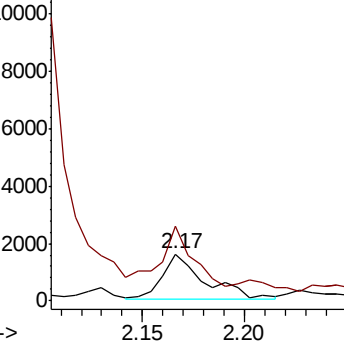
74 100

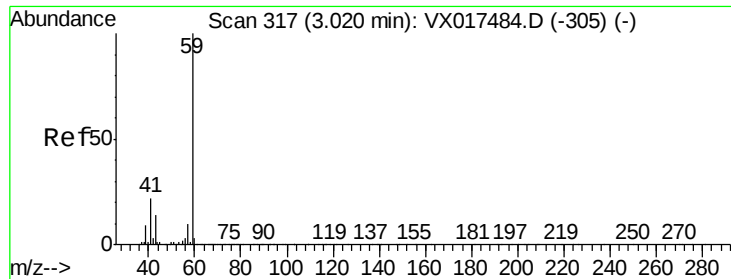
45 88.8 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

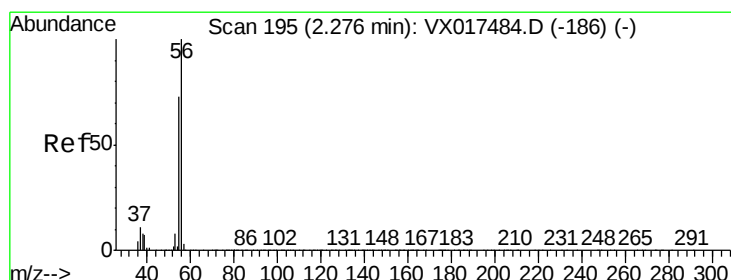
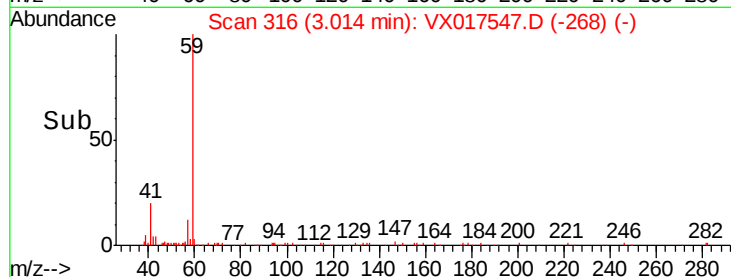
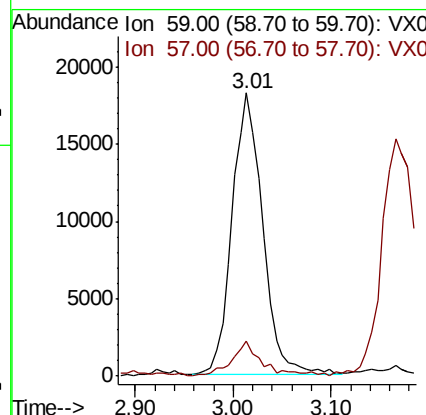
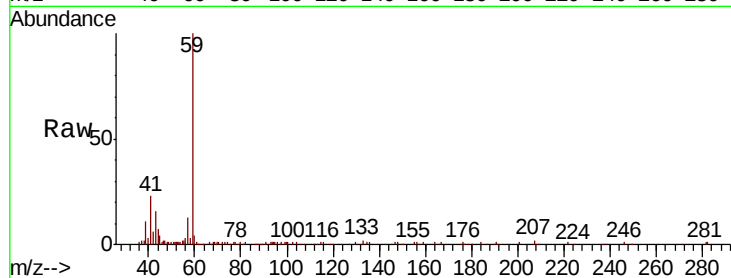




#11  
Tert butyl alcohol  
Concen: 33.405 ug/l  
RT: 3.01 min Scan# 316  
Delta R.T. -0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

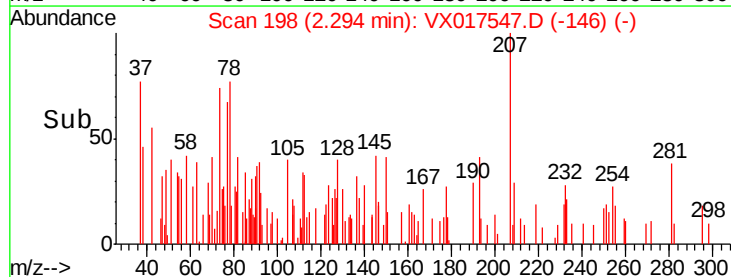
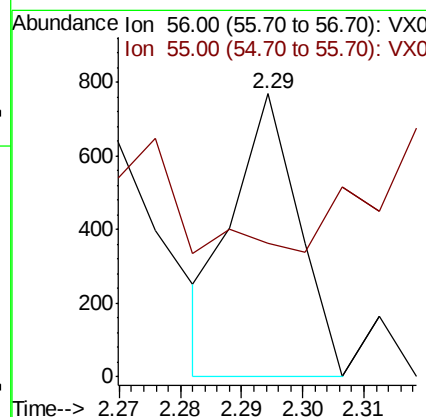
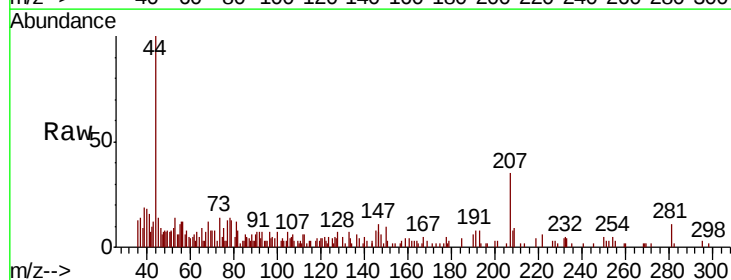
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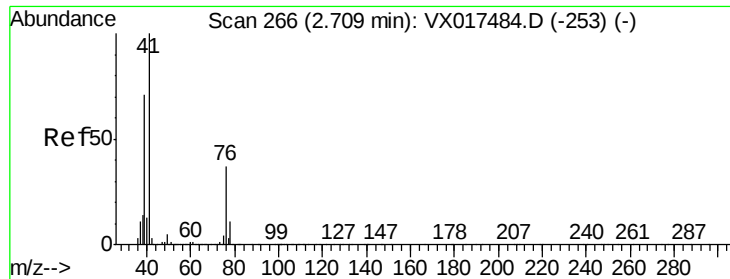
Tot Ion: 59 Resp: 39702  
Ion Ratio Lower Upper  
59 100  
57 12.0 8.6 12.8



#13  
Acrolein  
Concen: 4.757 ug/l  
RT: 2.29 min Scan# 198  
Delta R.T. 0.02 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 56 Resp: 561  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.4 86.2#





#14

Allvl chloride

Concen: 26.802 ug/l

RT: 2.58 min Scan# 245

Delta R.T. -0.13 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

20758

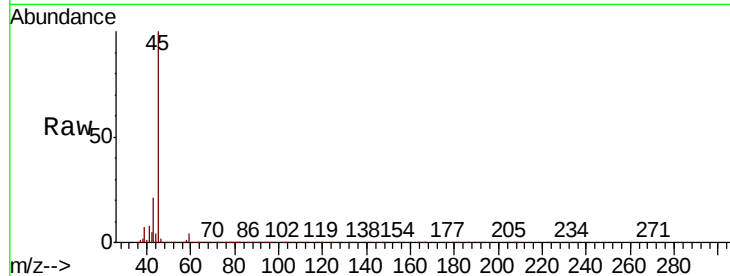
Tot Ion: 41 Resp: 221910

Ion Ratio Lower Upper

41 100

39 85.6 51.9 77.9#

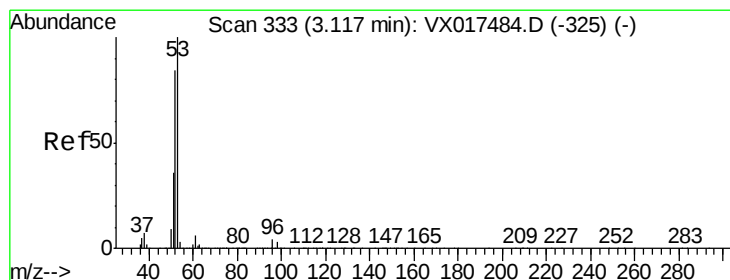
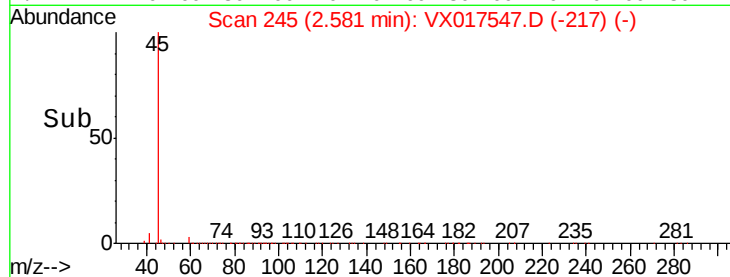
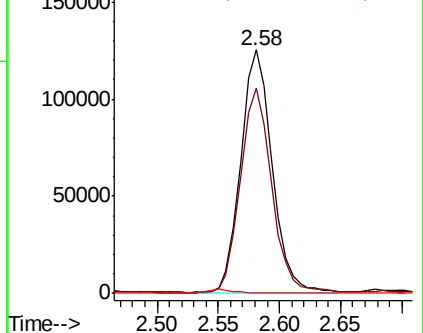
76 0.0 25.5 38.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#15

Acrylonitrile

Concen: 0.214 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

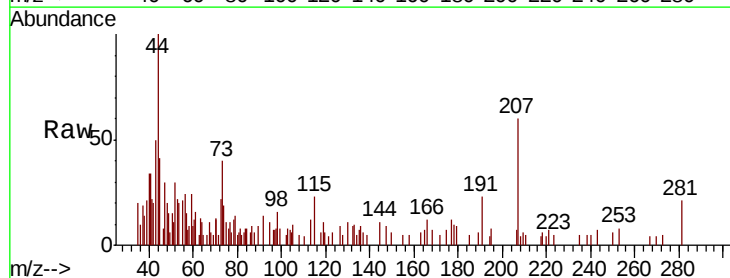
Tgt Ion: 53 Resp: 549

Ion Ratio Lower Upper

53 100

52 99.5 66.6 99.8

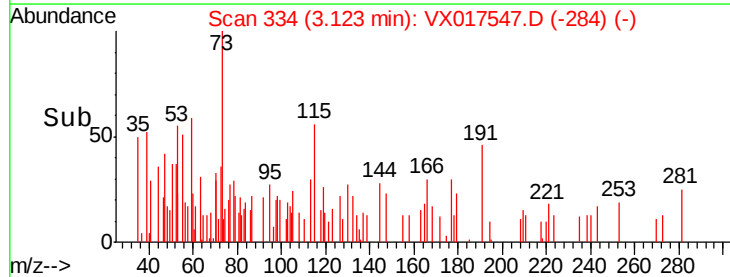
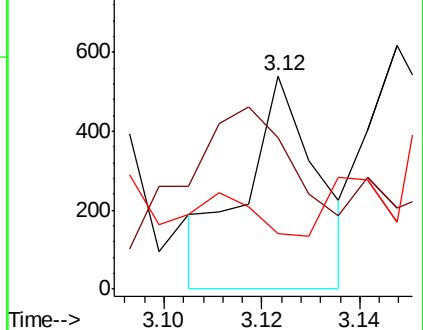
51 0.0 29.4 44.2#

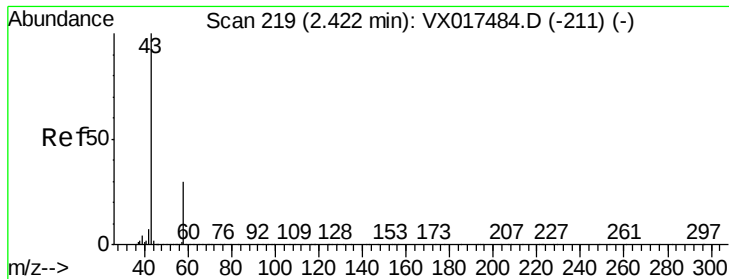


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

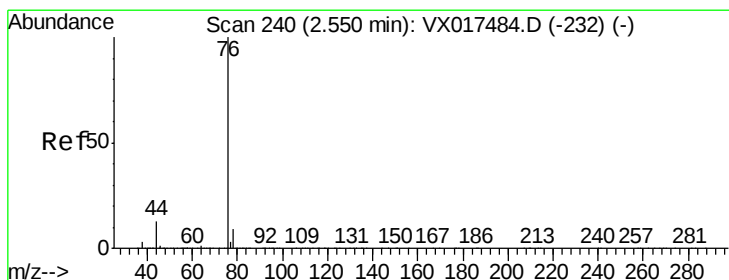
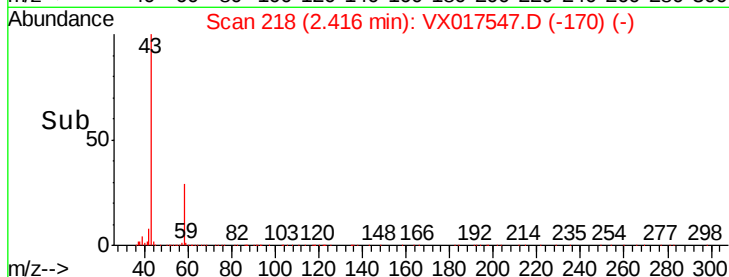
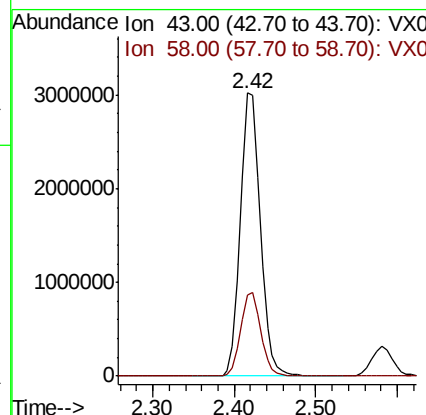
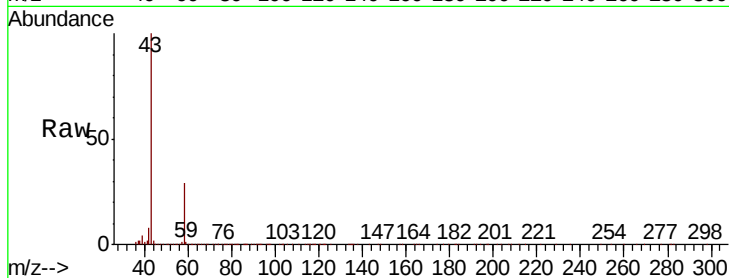




#16  
Acetone  
Concen: 2041.562 ug/l  
RT: 2.42 min Scan# 218  
Delta R.T. -0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

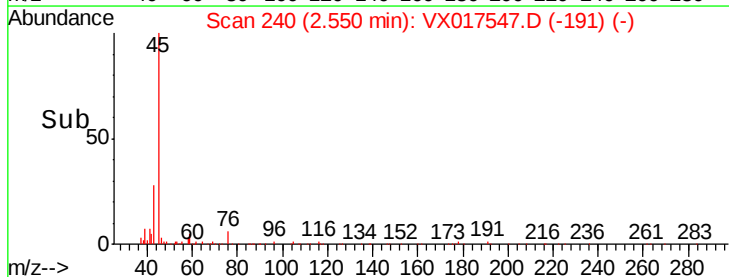
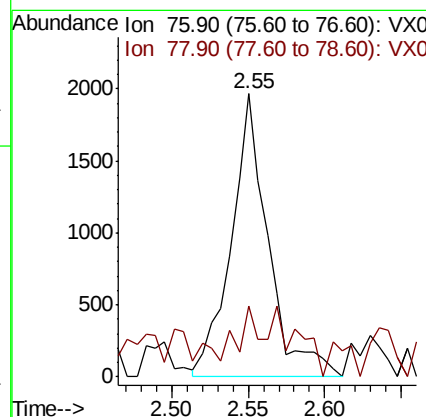
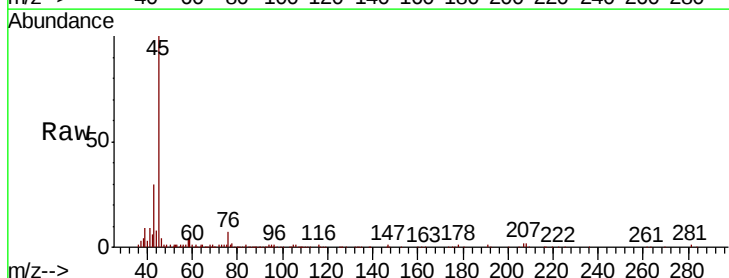
Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

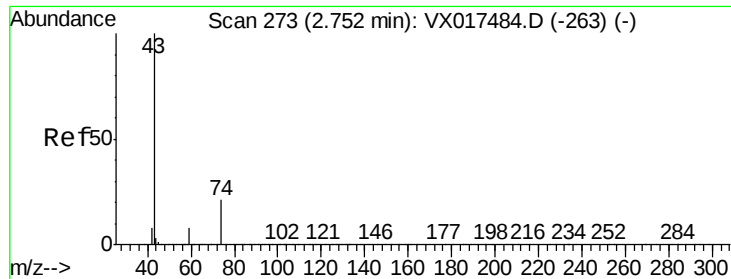
Tot Ion: 43 Resp: 5067098  
Ion Ratio Lower Upper  
43 100  
58 28.5 24.2 36.4



#17  
Carbon Disulfide  
Concen: 0.239 ug/l  
RT: 2.55 min Scan# 240  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 76 Resp: 3296  
Ion Ratio Lower Upper  
76 100  
78 26.1 7.5 11.3#

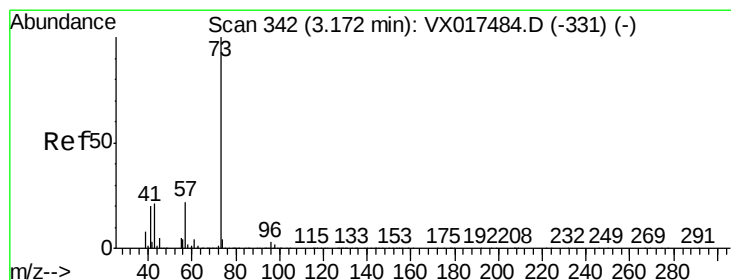
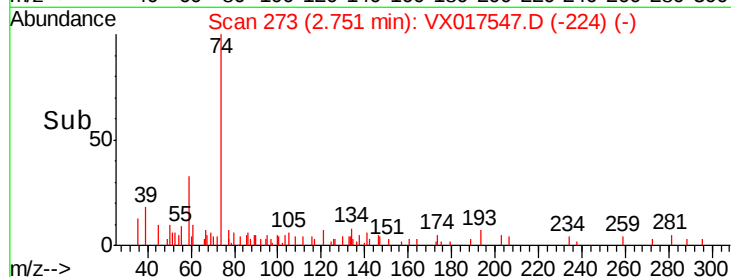
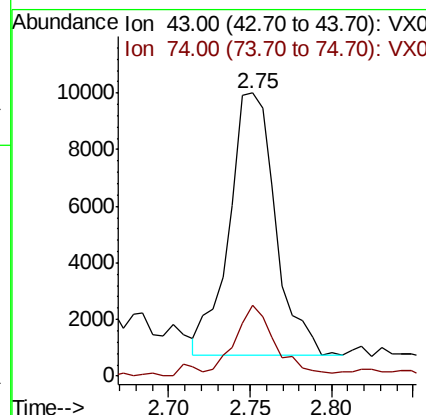
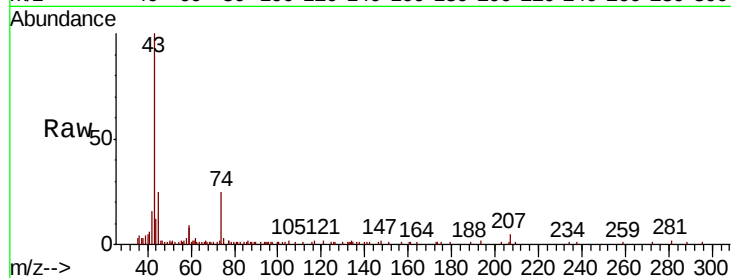




#18  
Methyl Acetate  
Concen: 3.129 ug/l  
RT: 2.75 min Scan# 273  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

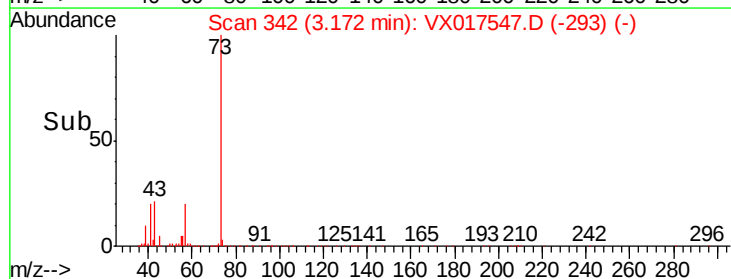
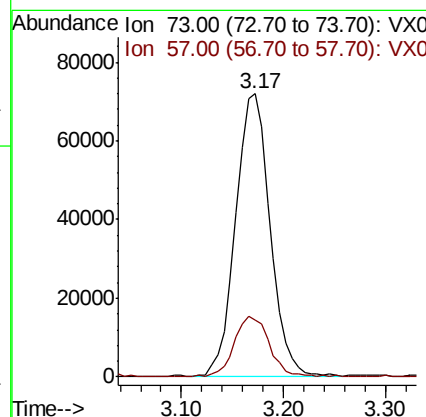
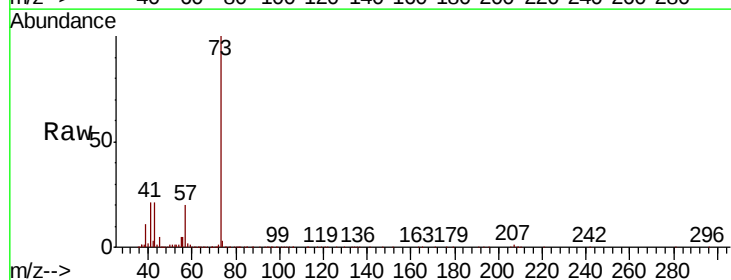
Instrument :  
MSVOA\_X  
ClientSampled :  
20758

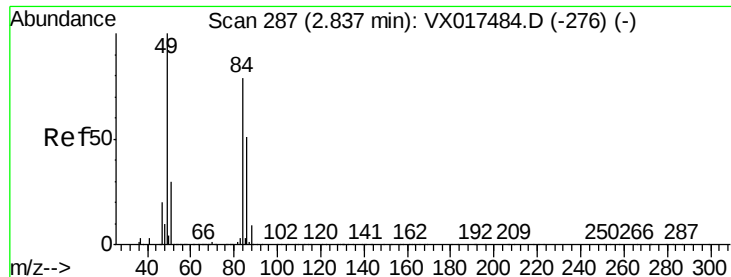
Tot Ion: 43 Resp: 18291  
Ion Ratio Lower Upper  
43 100  
74 23.2 17.5 26.3



#19  
Methyl tert-butyl Ether  
Concen: 10.646 ug/l  
RT: 3.17 min Scan# 342  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 73 Resp: 167078  
Ion Ratio Lower Upper  
73 100  
57 19.9 17.0 25.4

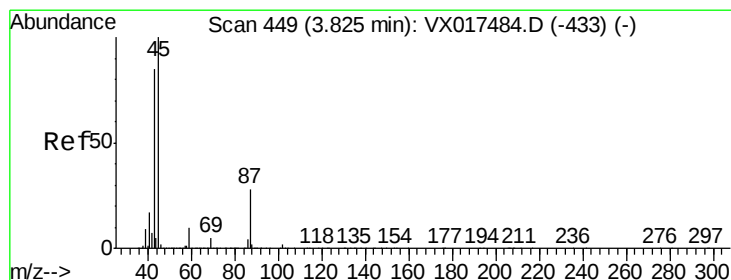
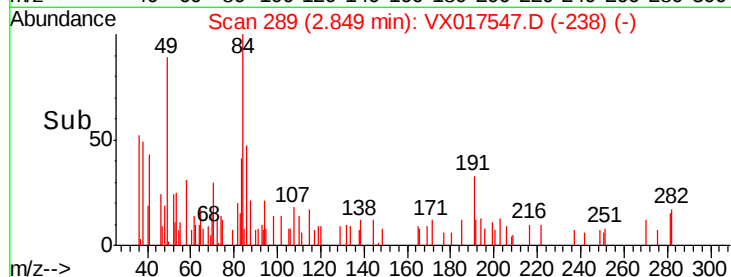
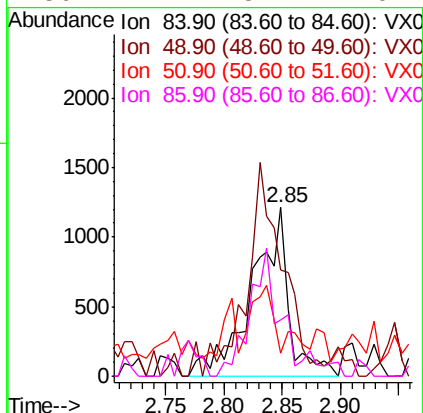
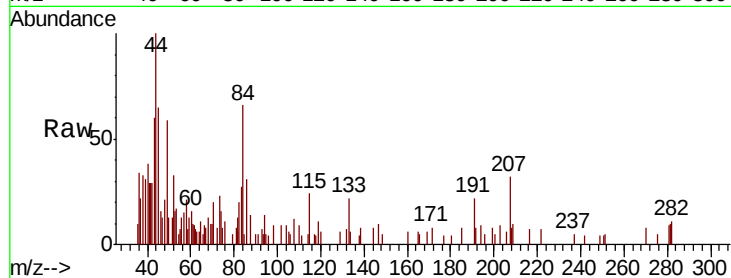




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.85 min Scan# 289  
Delta R.T. 0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

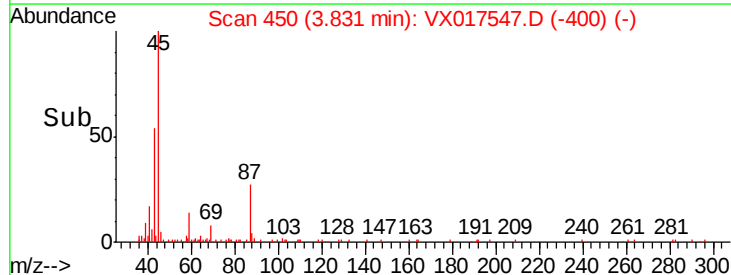
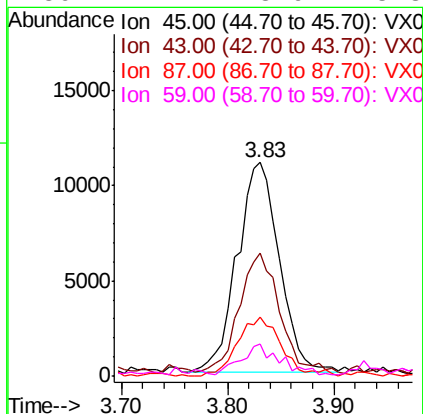
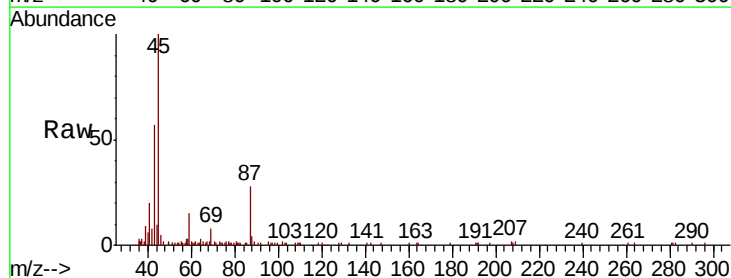
Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

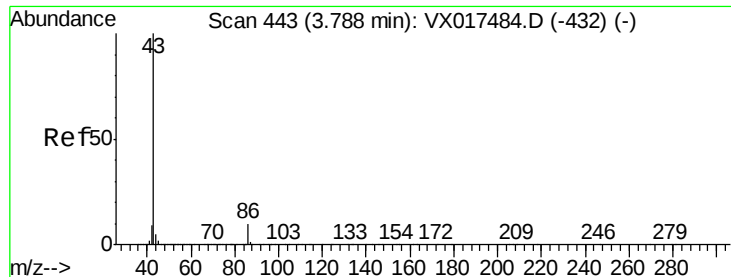
Tot Ion: 84 Resp: 2669  
Ion Ratio Lower Upper  
84 100  
49 45.5 100.3 150.5#  
51 0.0 30.5 45.7#  
86 24.7 51.1 76.7#



#22  
Diisopropyl ether  
Concen: 2.018 ug/l  
RT: 3.83 min Scan# 450  
Delta R.T. 0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 45 Resp: 30553  
Ion Ratio Lower Upper  
45 100  
43 57.0 52.0 78.0  
87 28.1 22.2 33.4  
59 14.1 8.9 13.3#





#23

Vinyl Acetate

Concen: 1.267 ug/l

RT: 3.83 min Scan# 450

Delta R.T. 0.04 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

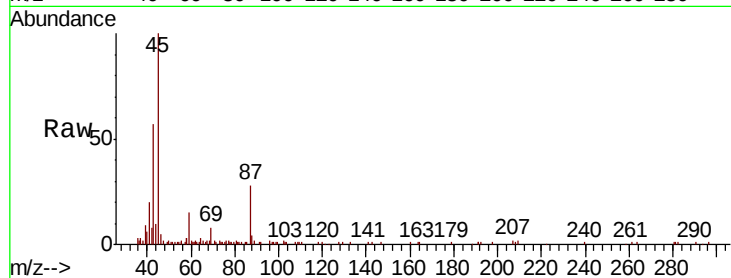
20758

Tot Ion: 43 Resp: 17097

Ion Ratio Lower Upper

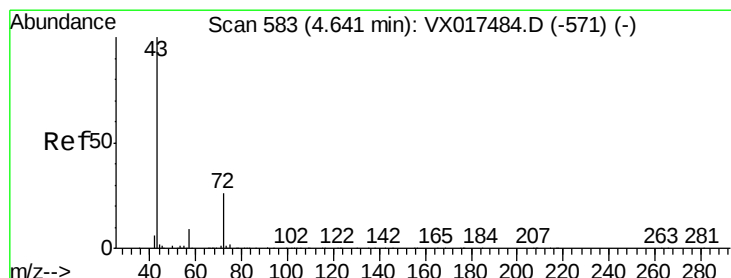
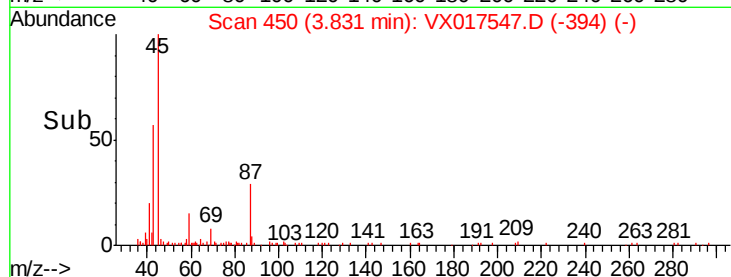
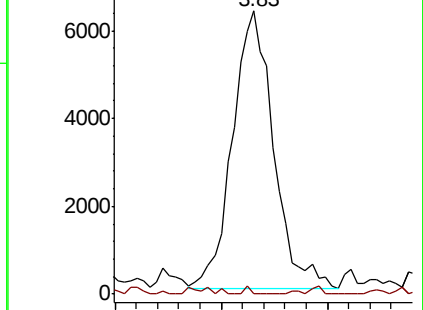
43 100

86 0.0 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#25

2-Butanone

Concen: 102.897 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX017547.D

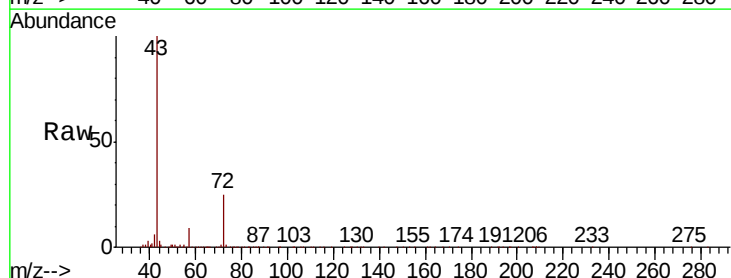
Acq: 24 Jul 2020 16:53

Tgt Ion: 43 Resp: 362806

Ion Ratio Lower Upper

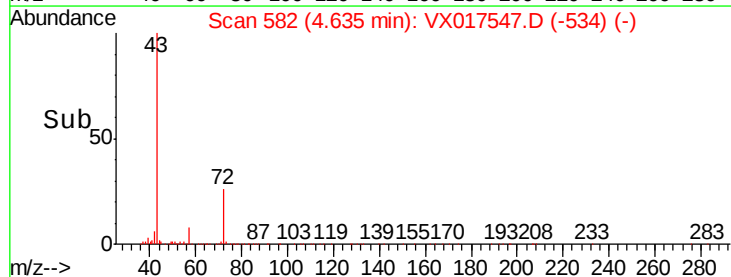
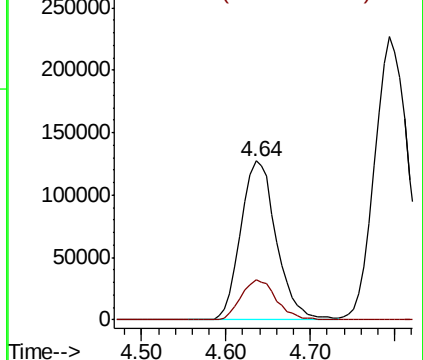
43 100

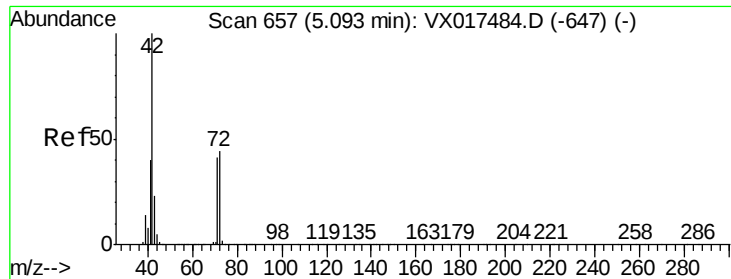
72 25.4 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

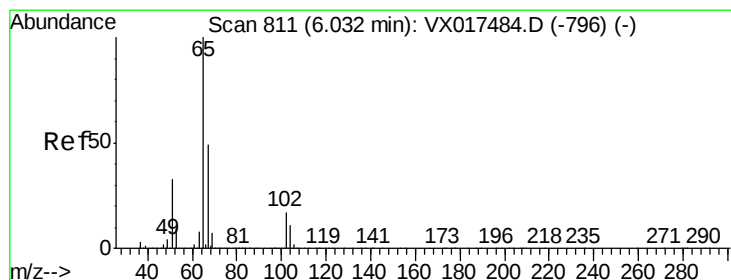
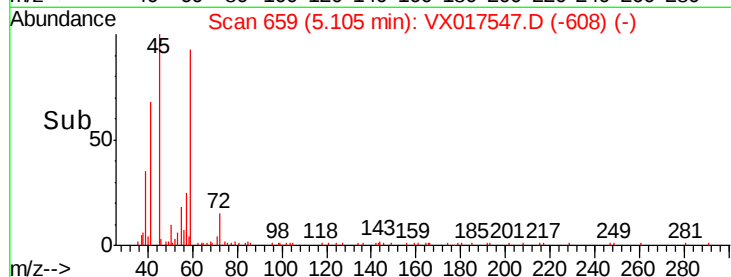
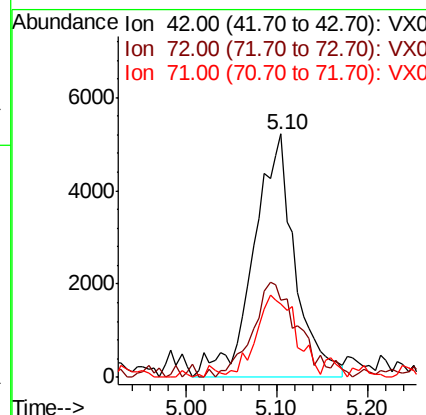
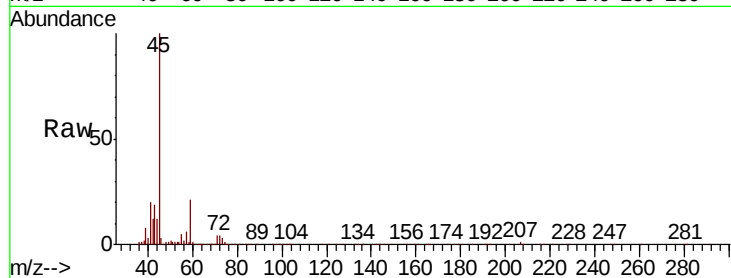




#29  
Tetrahydrofuran  
Concen: 7.510 ug/l  
RT: 5.10 min Scan# 659  
Delta R.T. 0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

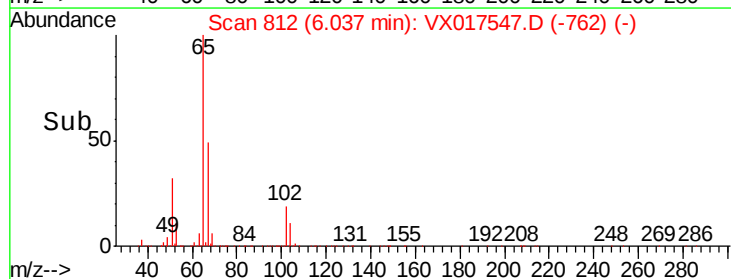
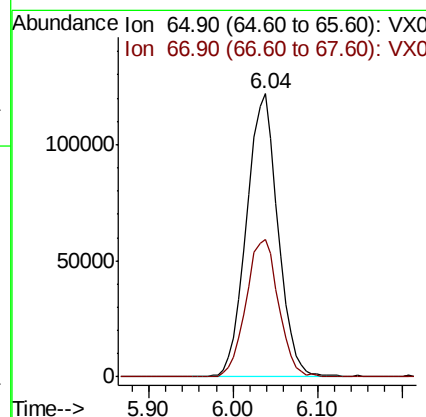
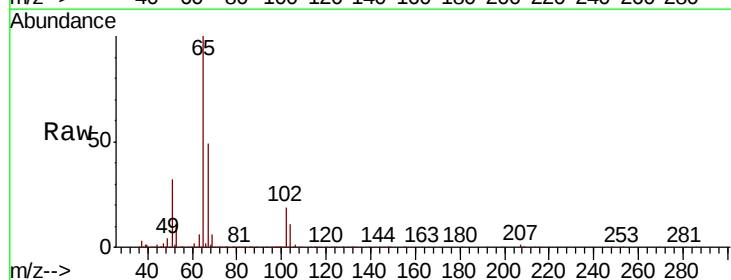
Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

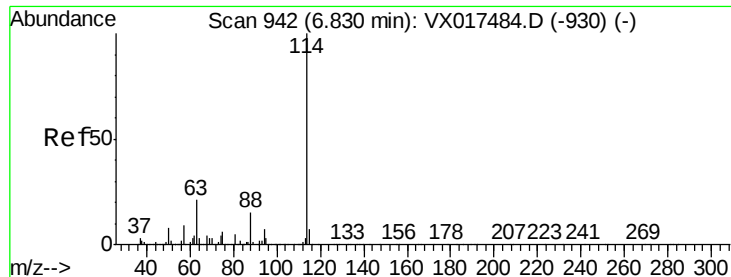
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 42.4  | 35.5  | 53.3  |
| 71      | 30.6  | 33.0  | 49.4  |



#33  
1,2-Dichloroethane-d4  
Concen: 54.290 ug/l  
RT: 6.04 min Scan# 812  
Delta R.T. 0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 50.4  | 0.0   | 102.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

20758

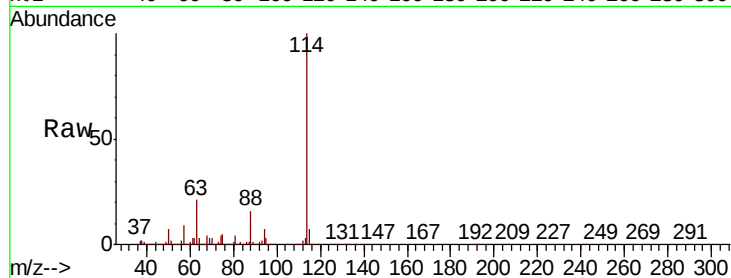
Tot Ion:114 Resp: 707850

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.6

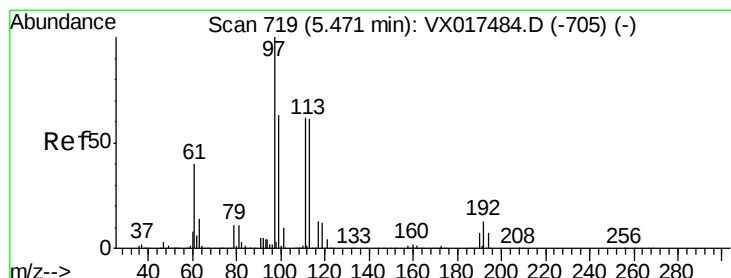
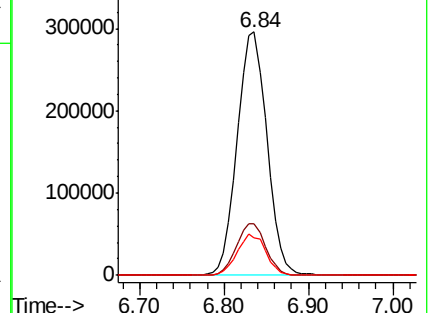
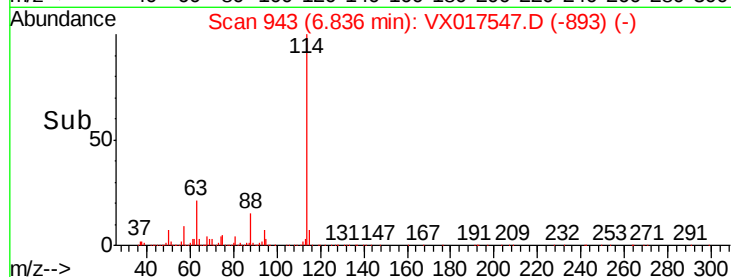
88 15.5 0.0 33.4



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



#35

Dibromofluoromethane

Concen: 53.709 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

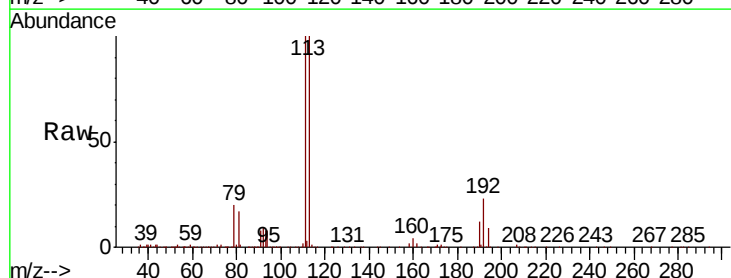
Tgt Ion:113 Resp: 254264

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

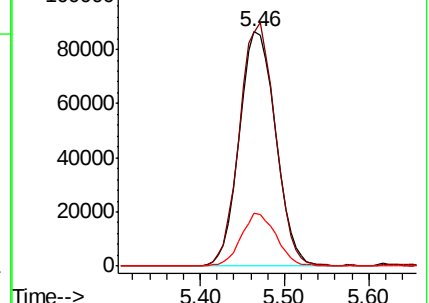
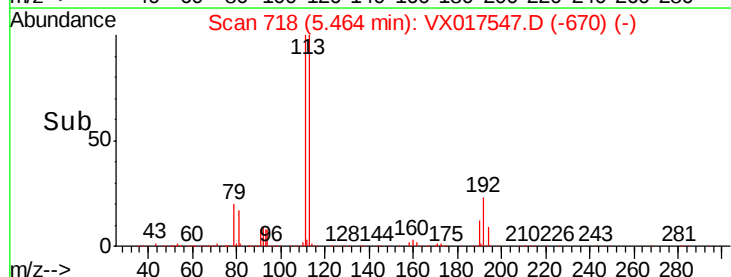
192 21.6 16.9 25.3

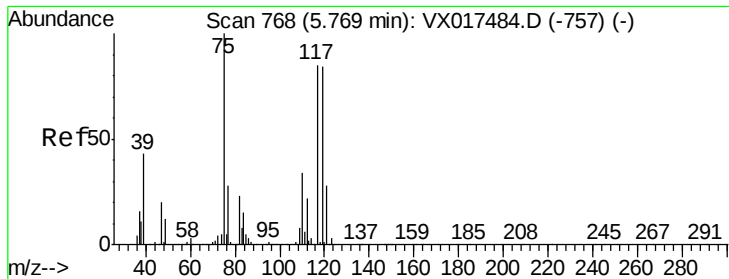


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.830 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

20758

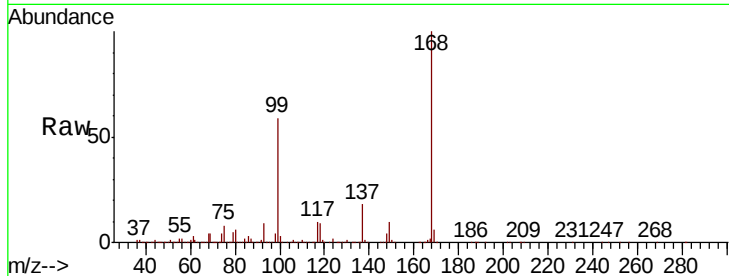
Tot Ion: 75 Resp: 32791

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.3#

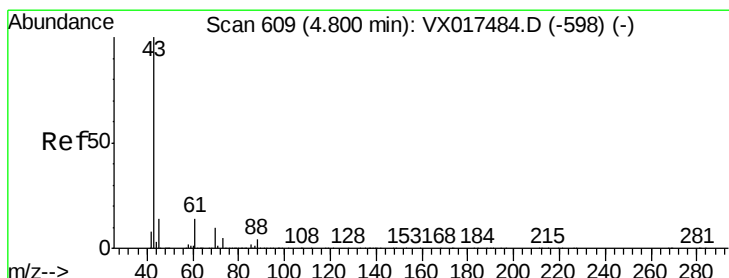
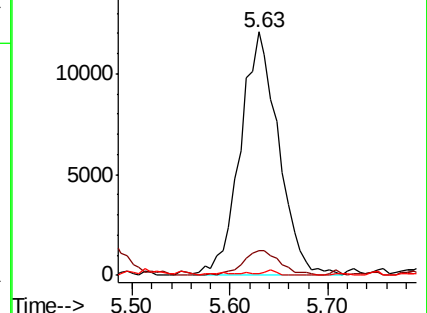
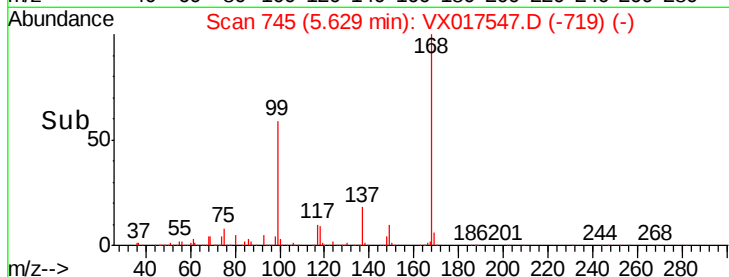
77 0.8 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 86.906 ug/l

RT: 4.79 min Scan# 608

Delta R.T. -0.01 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

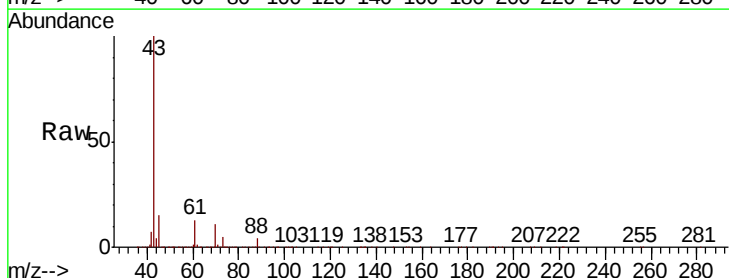
Tgt Ion: 43 Resp: 645544

Ion Ratio Lower Upper

43 100

61 13.9 10.7 16.1

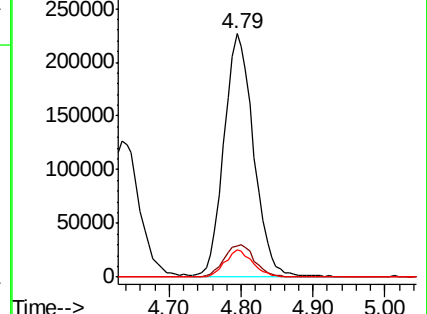
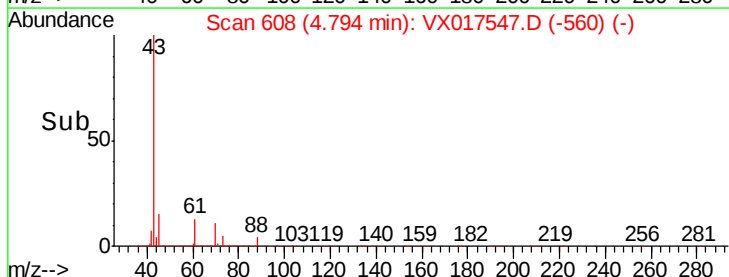
70 10.6 8.5 12.7

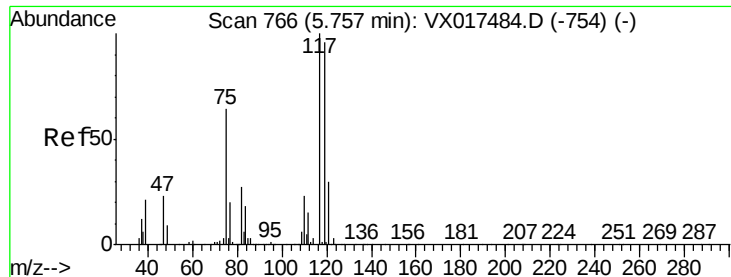


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.302 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

20758

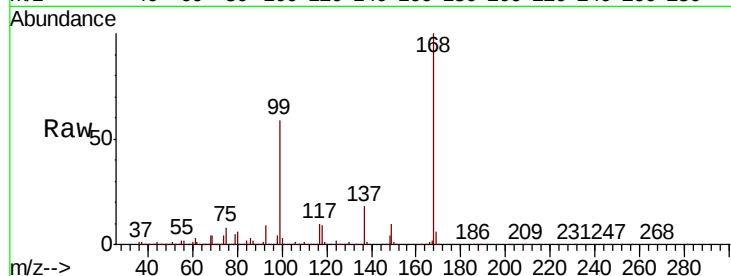
Tot Ion:117 Resp: 43710

Ion Ratio Lower Upper

117 100

119 5.4 75.4 113.0#

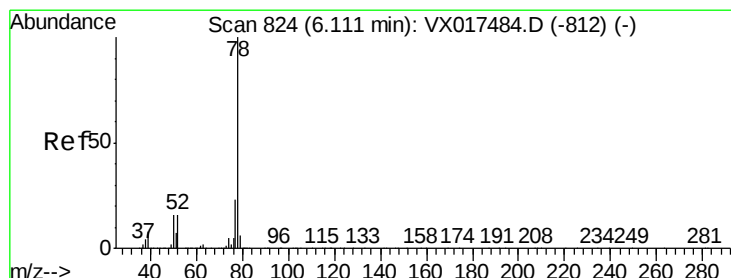
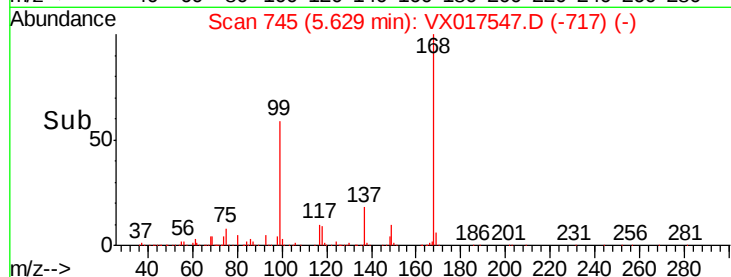
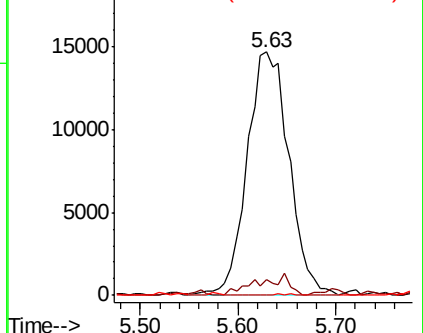
121 0.0 24.3 36.5#



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



#40

Benzene

Concen: 54.297 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX017547.D

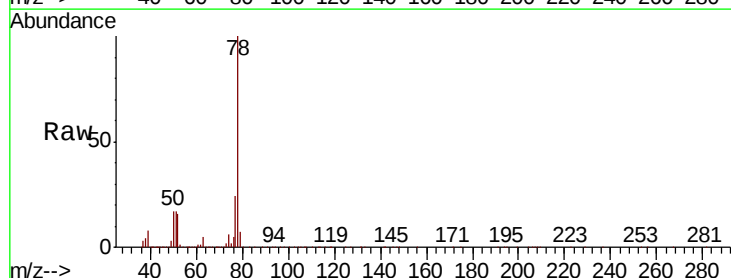
Acq: 24 Jul 2020 16:53

Tgt Ion: 78 Resp: 1056819

Ion Ratio Lower Upper

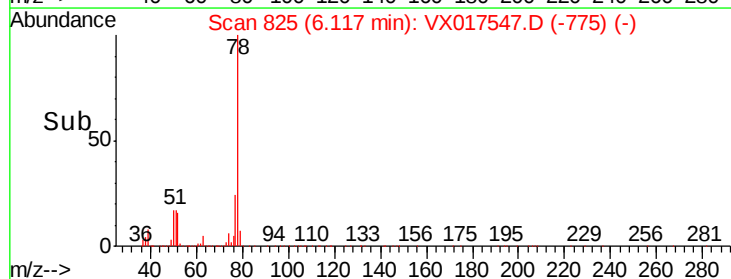
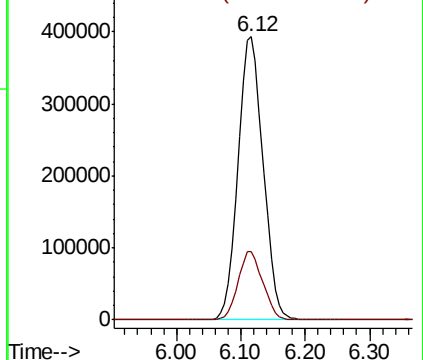
78 100

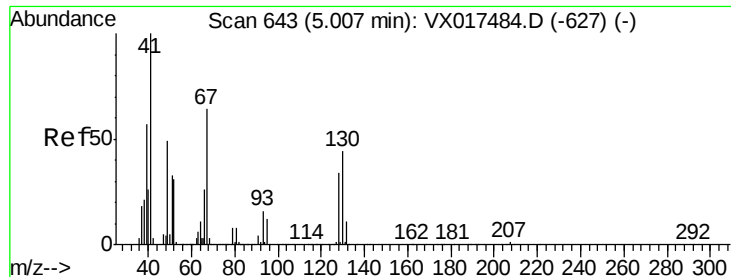
77 23.9 19.4 29.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

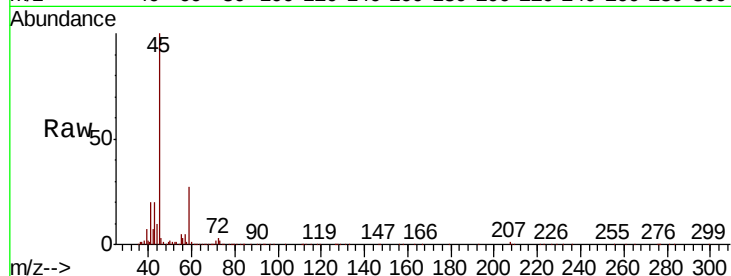




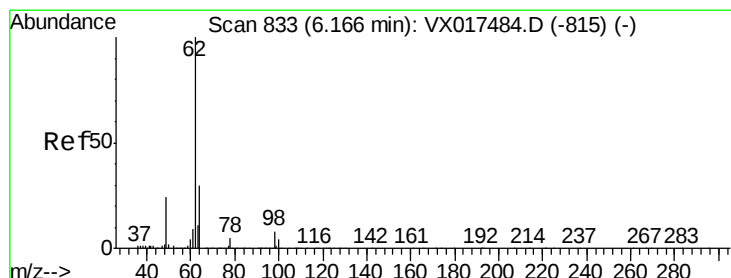
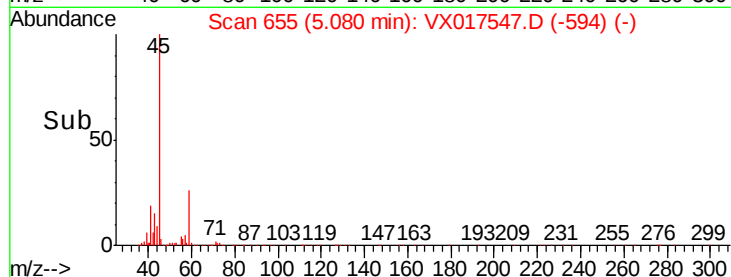
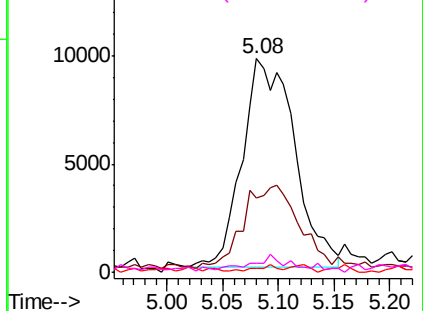
#41  
Methacrylonitrile  
Concen: 7.330 ug/l  
RT: 5.08 min Scan# 655  
Delta R.T. 0.07 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Instrument :  
MSVOA\_X  
ClientSampled :  
20758

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 31209 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 45.1  | 43.9  | 65.9  |
| 67       | 0.9   | 54.0  | 81.0# |
| 52       | 5.2   | 23.0  | 34.6# |

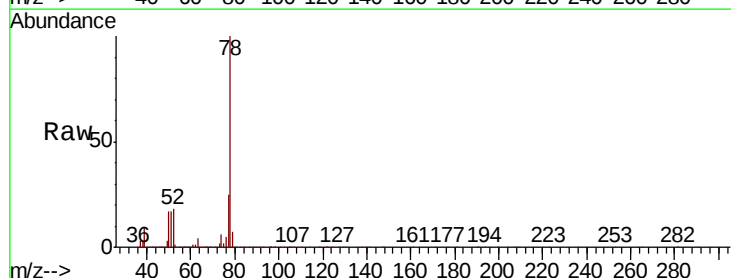


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

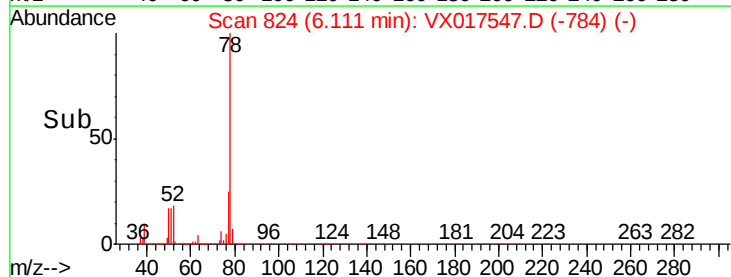
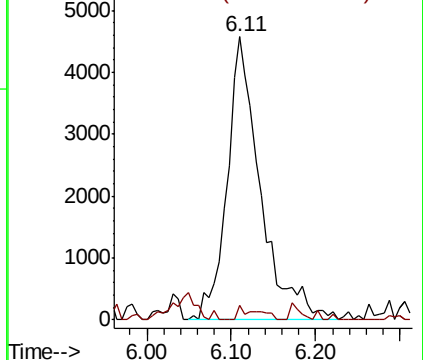


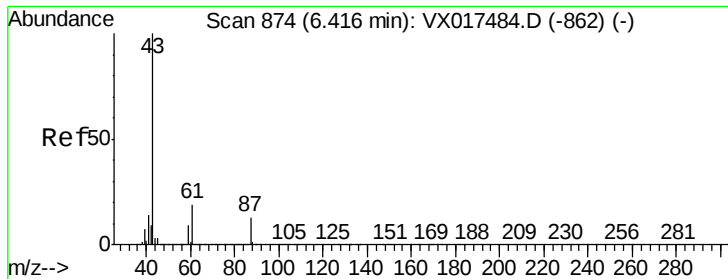
#42  
1,2-Dichloroethane  
Concen: 1.543 ug/l  
RT: 6.11 min Scan# 824  
Delta R.T. -0.06 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 12285 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 1.7   | 0.0   | 16.0  |



Abundance Ion 61.90 (61.60 to 62.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



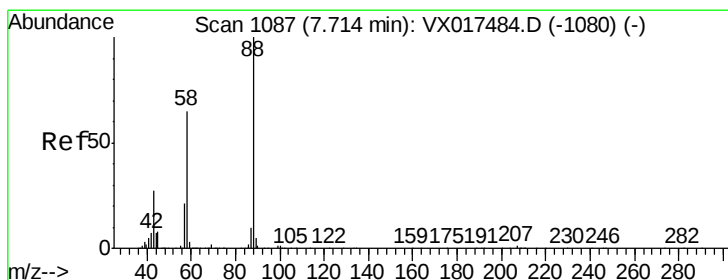
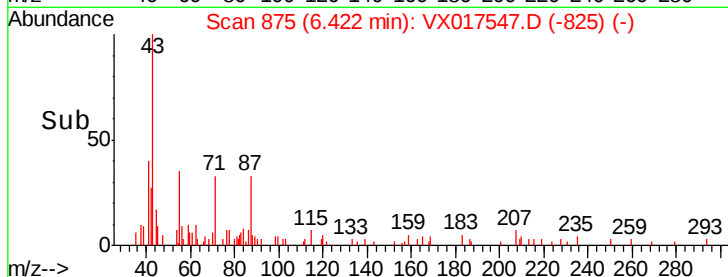
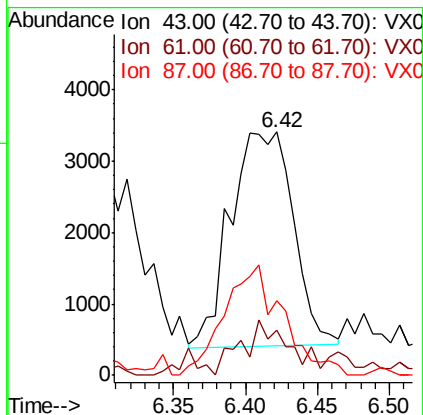
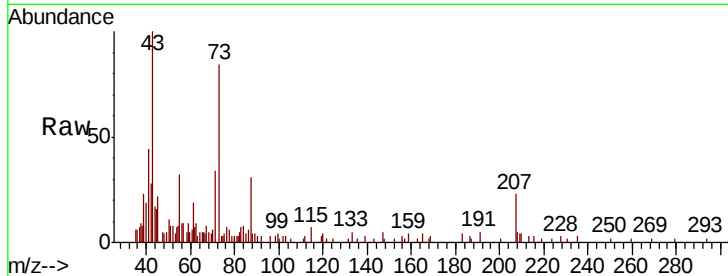


#43

Isopropyl Acetate  
 Concen: 0.745 ug/l  
 RT: 6.42 min Scan# 875  
 Delta R.T. 0.01 min  
 Lab File: VX017547.D  
 Acq: 24 Jul 2020 16:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 20758

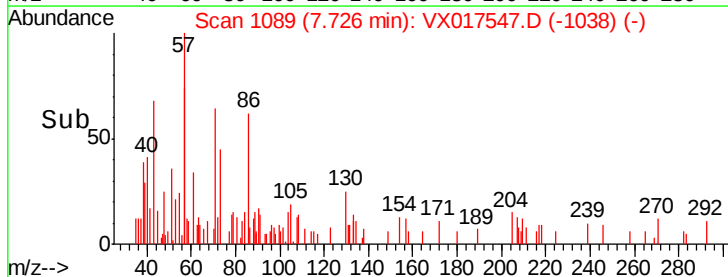
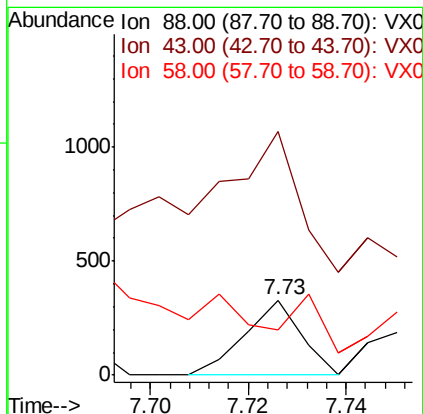
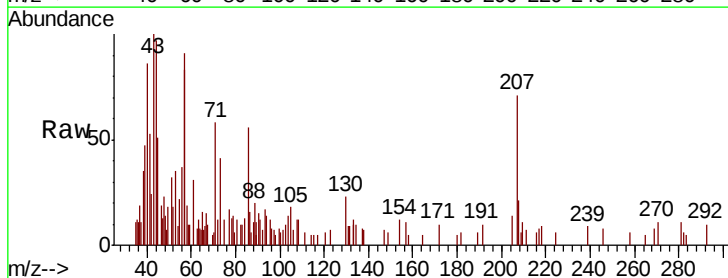
| Tot Ion   | 43    | Resp  | 9125  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 19.4  | 15.5  | 23.3  |
| 87        | 48.1  | 10.5  | 15.7# |

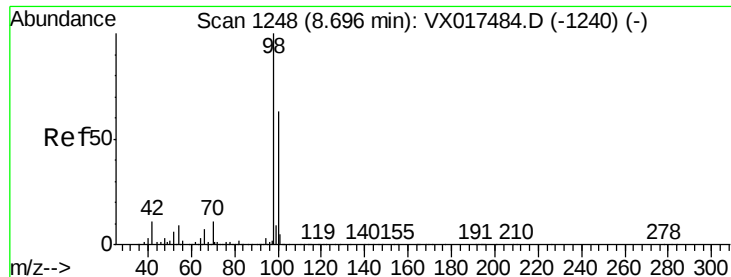


#49

1,4-Dioxane  
 Concen: 2.267 ug/l  
 RT: 7.73 min Scan# 1089  
 Delta R.T. 0.01 min  
 Lab File: VX017547.D  
 Acq: 24 Jul 2020 16:53

| Tgt Ion   | 88    | Resp  | 264   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 0.0   | 27.8  | 41.6# |
| 58        | 0.0   | 58.3  | 87.5# |





#50

Toluene-d8

Concen: 56.852 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

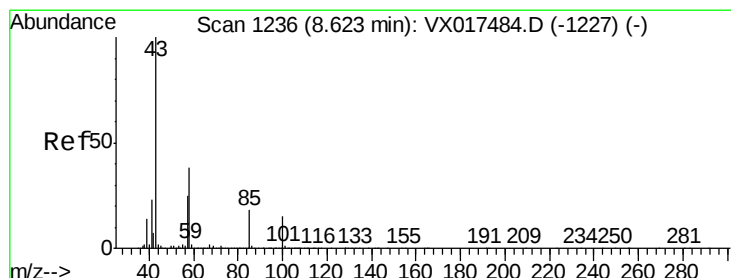
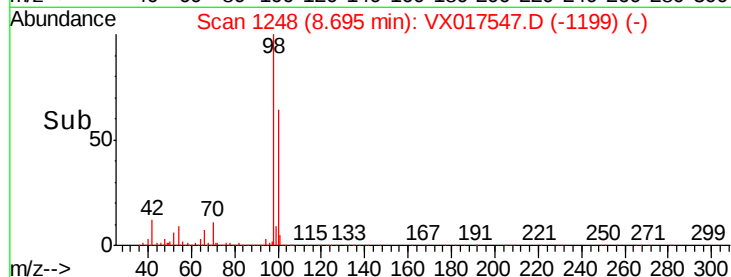
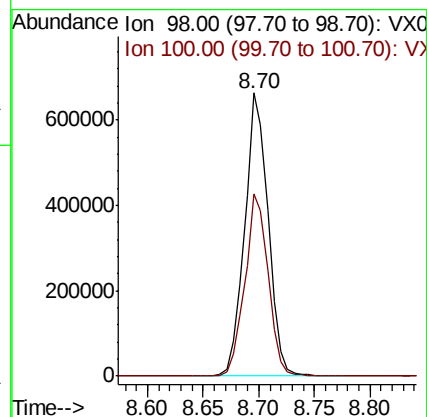
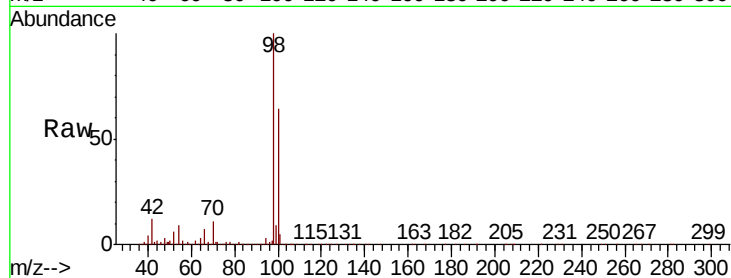
20758

Tot Ion: 98 Resp: 970939

Ion Ratio Lower Upper

98 100

100 64.1 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 1.479 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017547.D

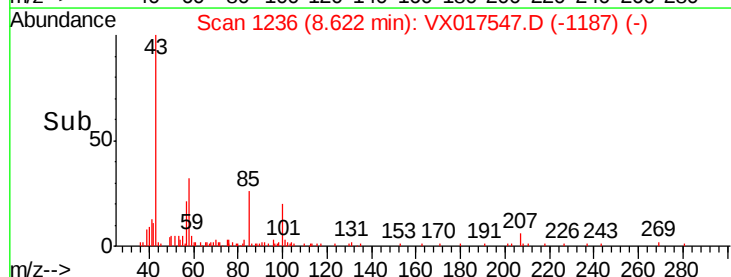
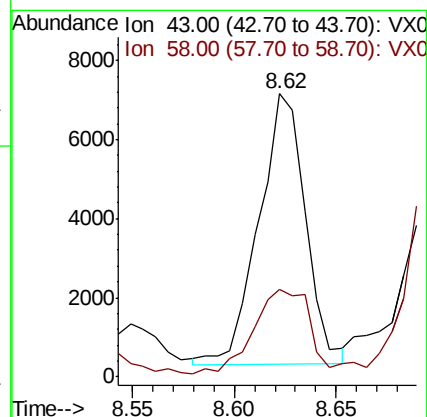
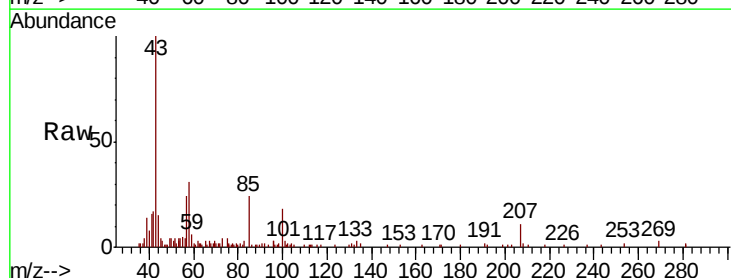
Acq: 24 Jul 2020 16:53

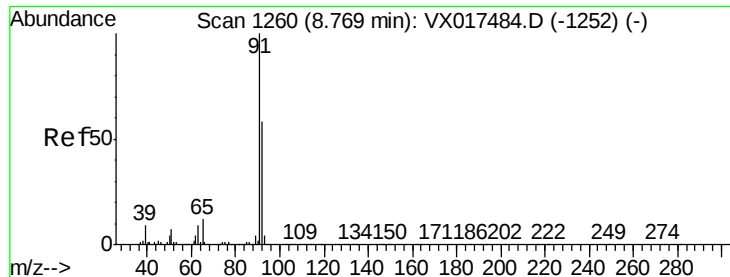
Tgt Ion: 43 Resp: 10815

Ion Ratio Lower Upper

43 100

58 38.1 31.0 46.4





#52

Toluene

Concen: 206.091 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

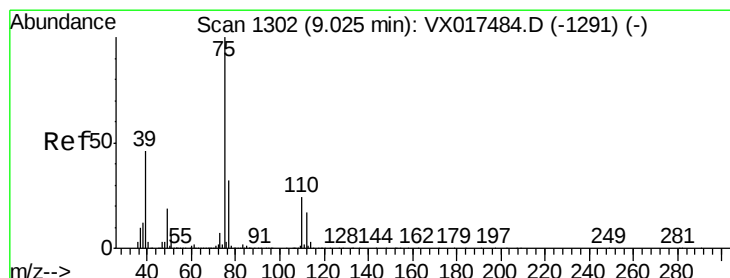
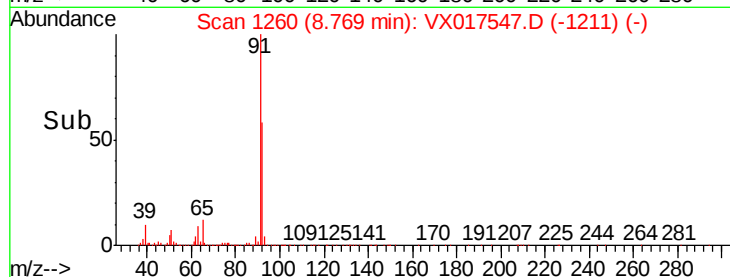
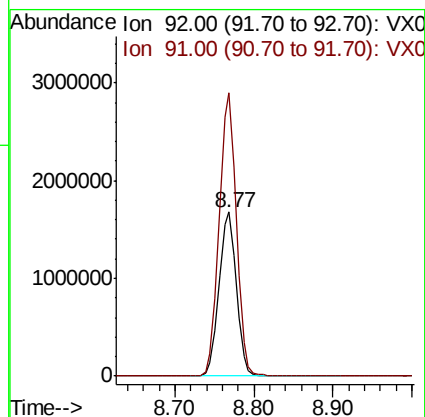
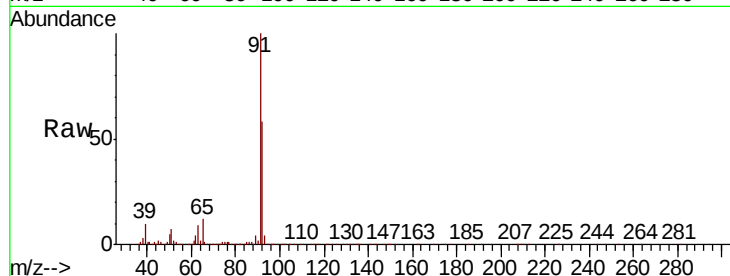
20758

Tot Ion: 92 Resp: 2572497

Ion Ratio Lower Upper

92 100

91 171.9 137.6 206.4



#53

t-1,3-Dichloropropene

Concen: 3.710 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.26 min

Lab File: VX017547.D

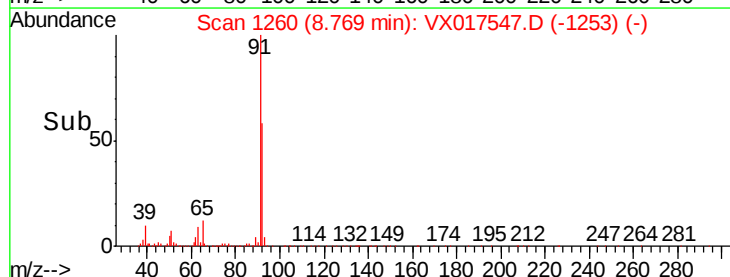
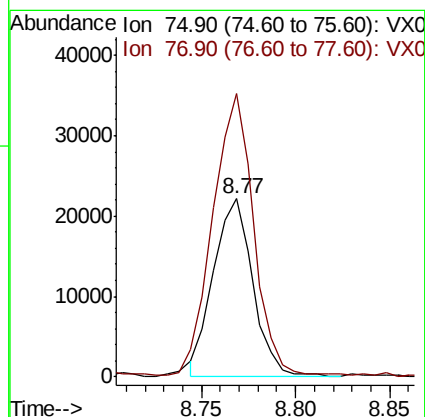
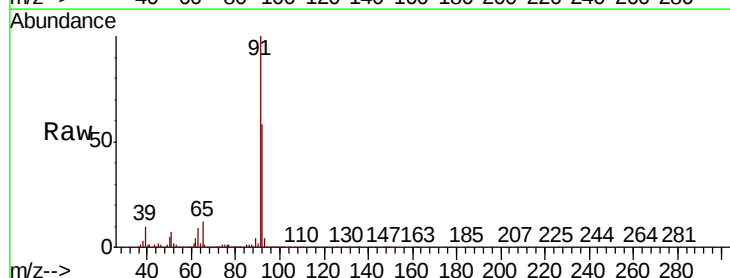
Acq: 24 Jul 2020 16:53

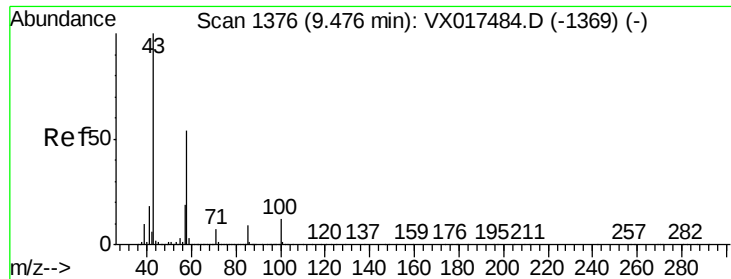
Tgt Ion: 75 Resp: 31864

Ion Ratio Lower Upper

75 100

77 157.5 25.5 38.3#

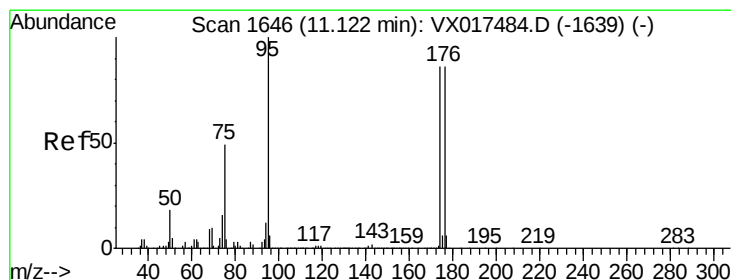
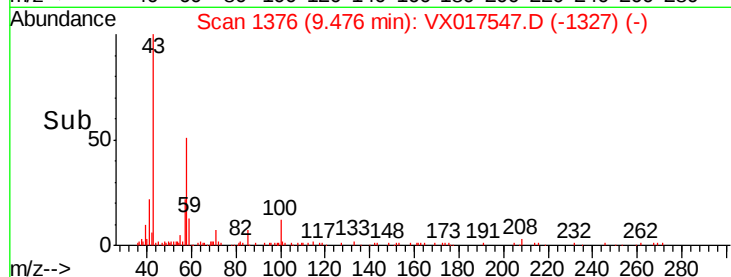
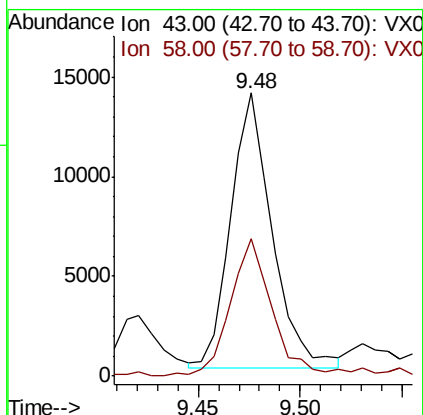
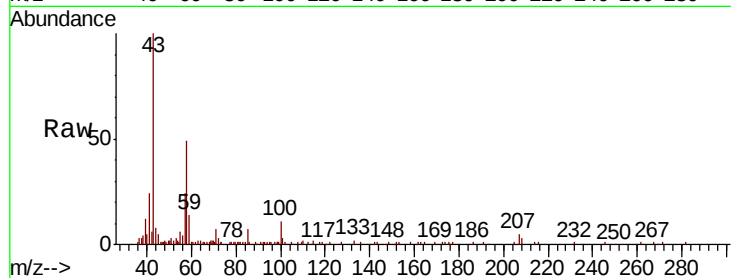




#59  
2-Hexanone  
Concen: 3.526 ug/l  
RT: 9.48 min Scan# 1376  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

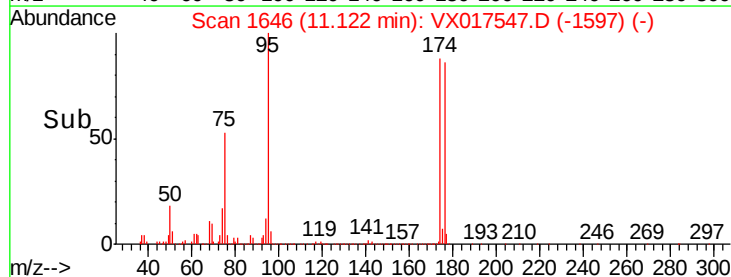
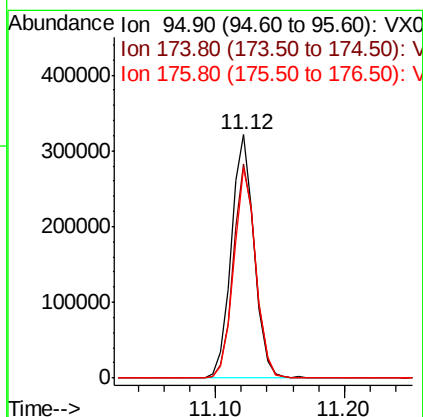
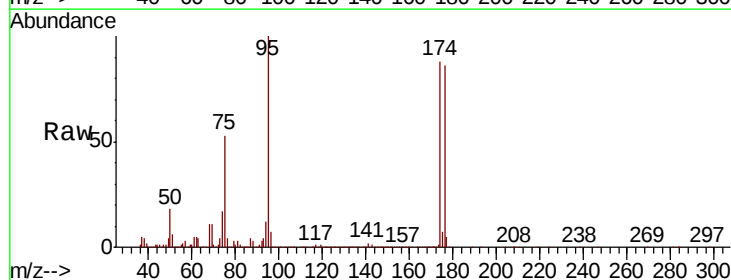
Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

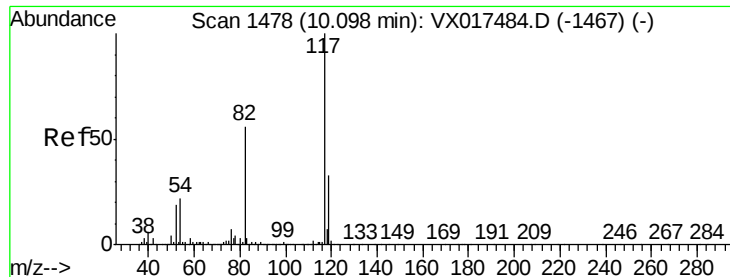
Tot Ion: 43 Resp: 19413  
Ion Ratio Lower Upper  
43 100  
58 49.8 26.6 79.8



#62  
4-Bromofluorobenzene  
Concen: 58.275 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 95 Resp: 398294  
Ion Ratio Lower Upper  
95 100  
174 85.4 0.0 169.0  
176 83.4 0.0 161.0

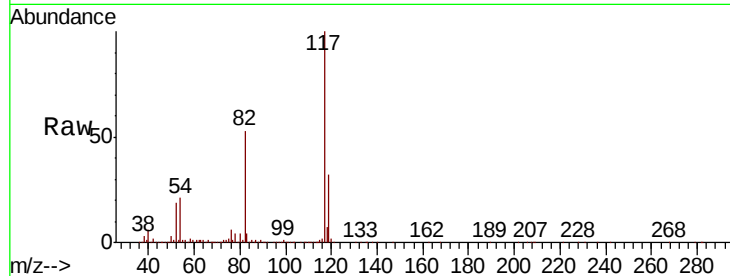




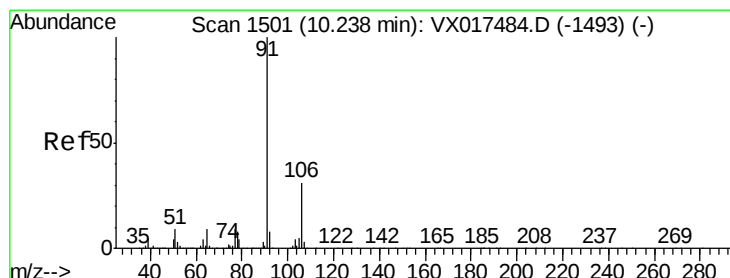
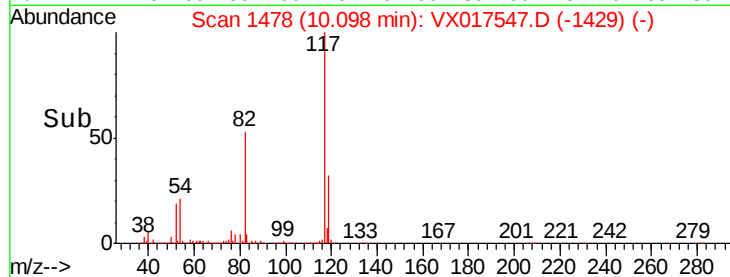
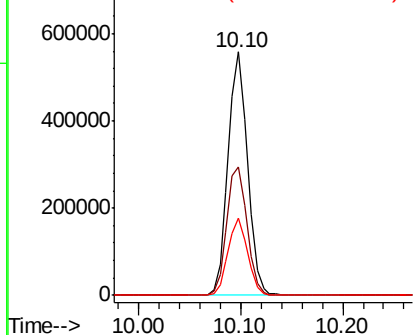
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

Tot Ion:117 Resp: 736807  
Ion Ratio Lower Upper  
117 100  
82 52.6 44.0 66.0  
119 31.7 25.4 38.0

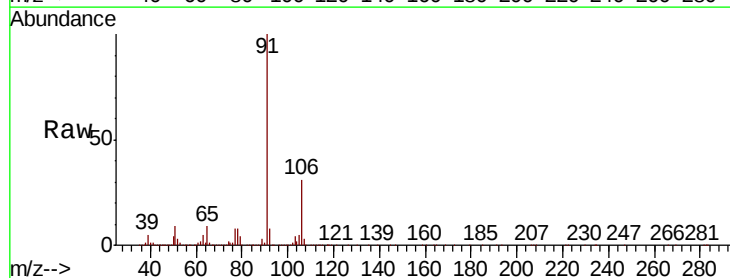


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

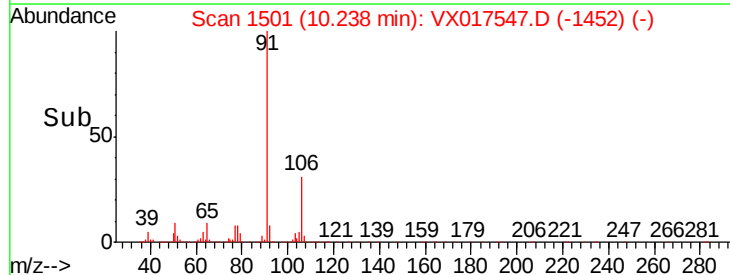
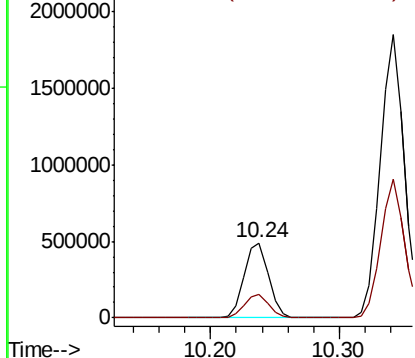


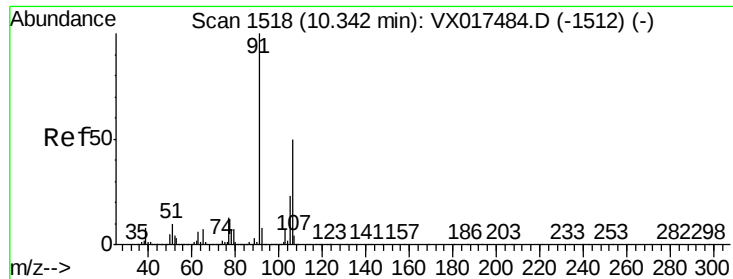
#67  
Ethyl Benzene  
Concen: 24.093 ug/l  
RT: 10.24 min Scan# 1501  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Tgt Ion: 91 Resp: 641407  
Ion Ratio Lower Upper  
91 100  
106 30.8 25.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 111.254 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

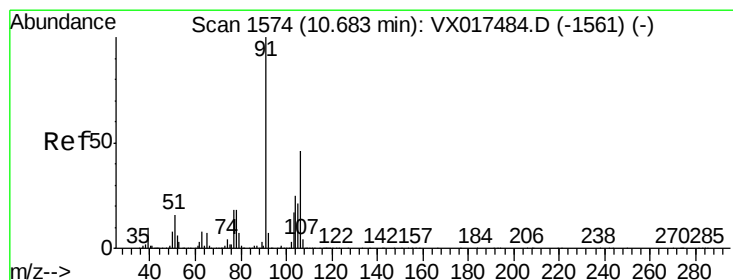
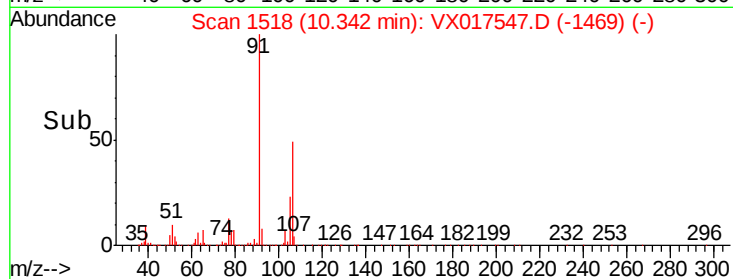
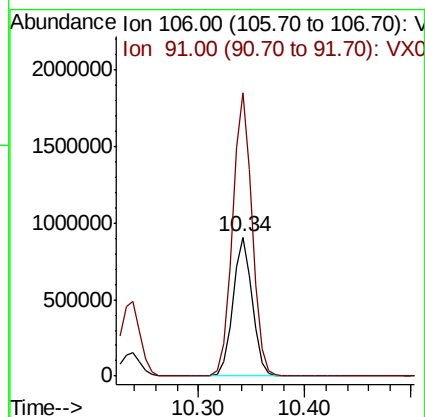
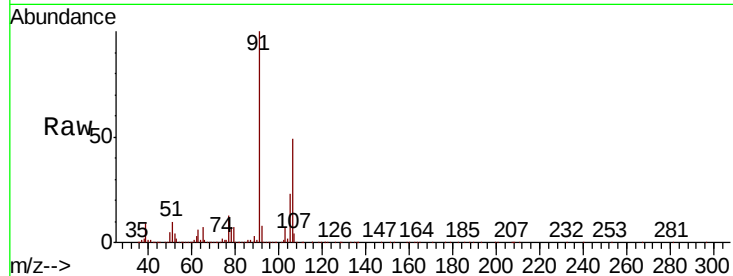
20758

Tot Ion:106 Resp: 1147397

Ion Ratio Lower Upper

106 100

91 206.7 160.9 241.3



#69

o-Xylene

Concen: 110.674 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX017547.D

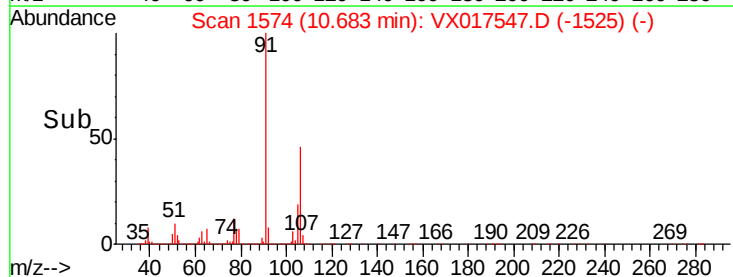
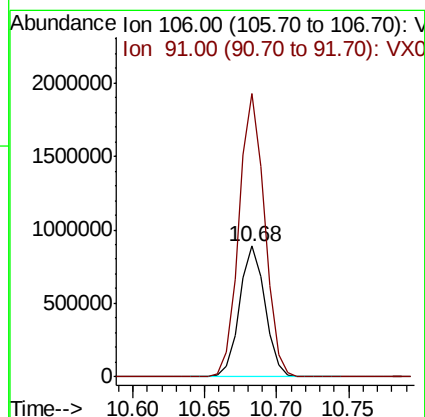
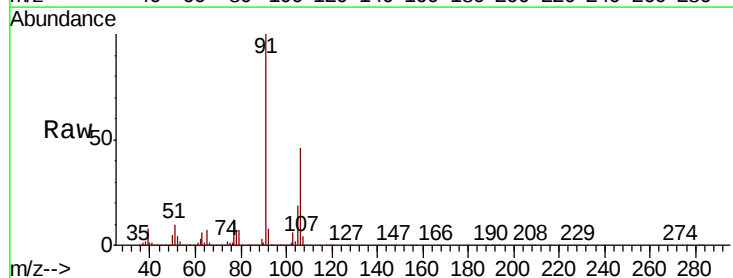
Acq: 24 Jul 2020 16:53

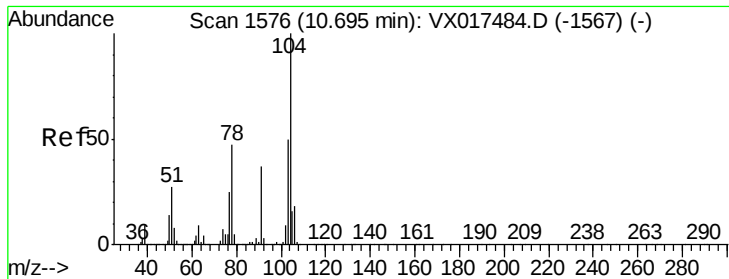
Tgt Ion:106 Resp: 1097783

Ion Ratio Lower Upper

106 100

91 218.3 108.2 324.6

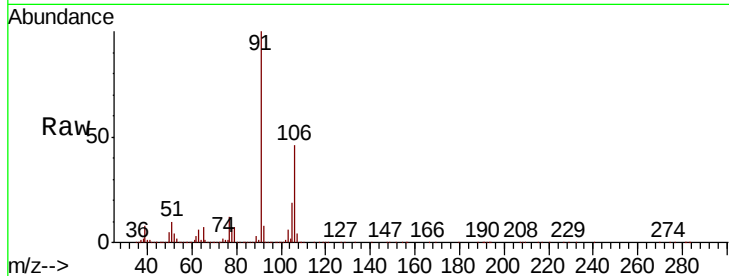




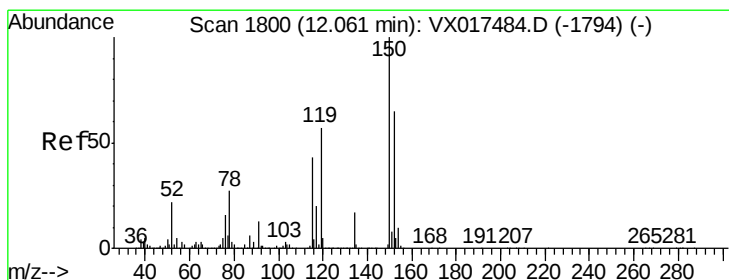
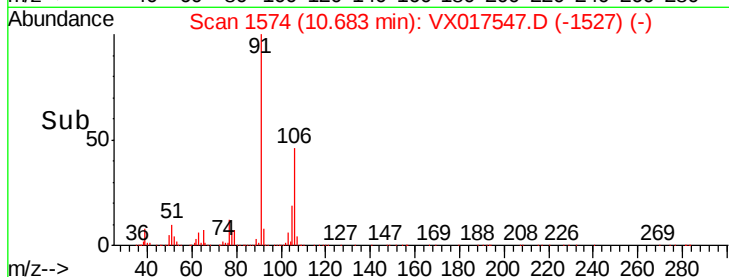
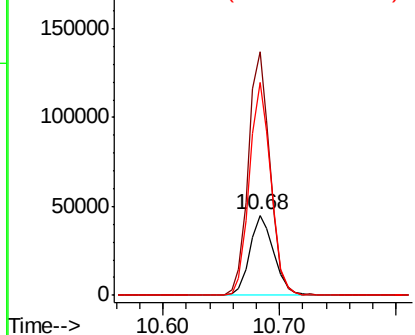
#70  
Stvrene  
Concen: 3.869 ug/l  
RT: 10.68 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
20758

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 272.8 | 42.5  | 63.7# |
| 103     | 238.3 | 44.3  | 66.5# |

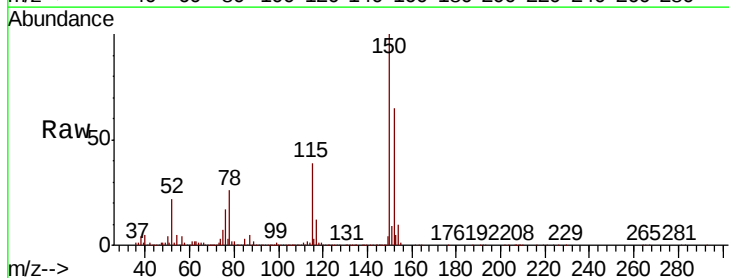


Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VX0  
Ion 103.00 (102.70 to 103.70): V

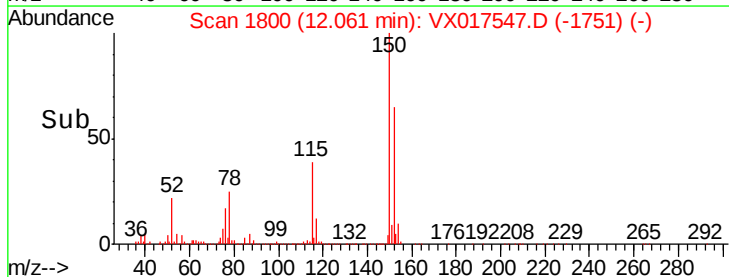
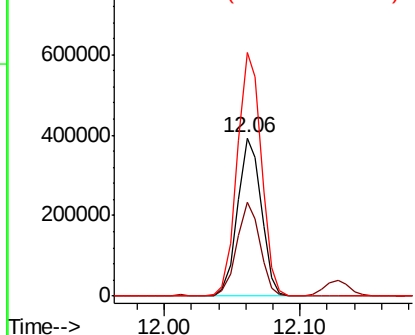


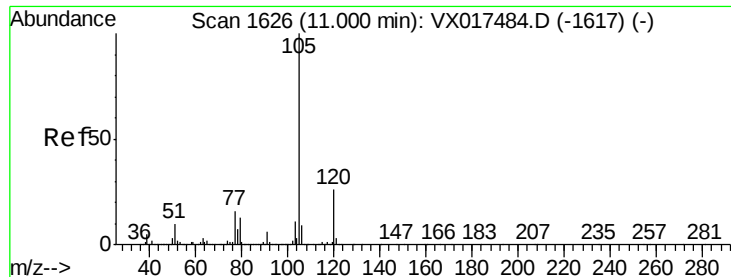
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 152     | 100   |       |        |
| 115     | 57.8  | 65.5  | 196.6# |
| 150     | 156.4 | 0.0   | 412.6  |



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





#73

Isopropylbenzene

Concen: 1.382 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

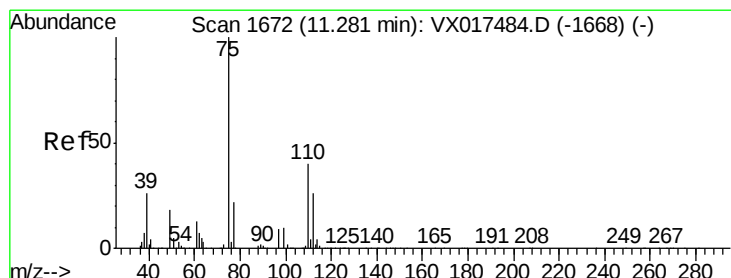
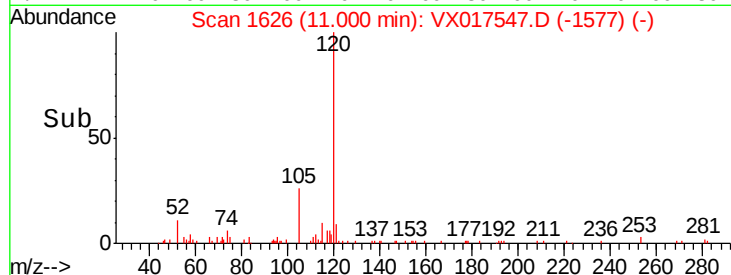
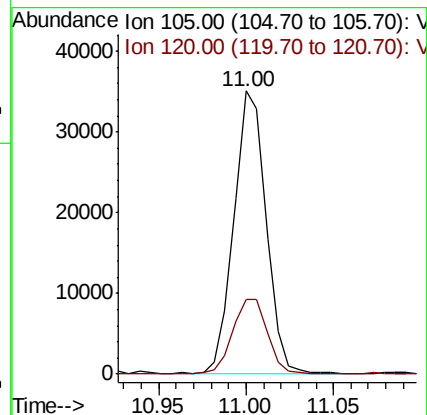
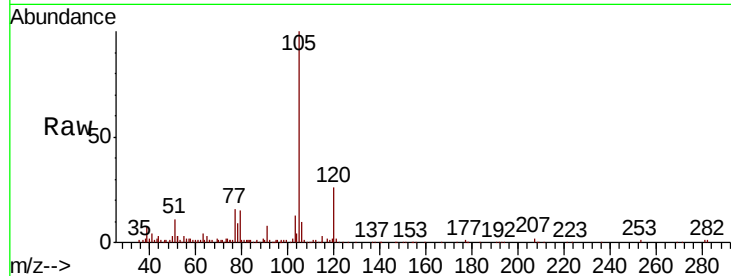
20758

Tot Ion:105 Resp: 45155

Ion Ratio Lower Upper

105 100

120 28.4 13.3 39.8



#76

1,2,3-Trichloropropane

Concen: 0.986 ug/l

RT: 11.42 min Scan# 1695

Delta R.T. 0.14 min

Lab File: VX017547.D

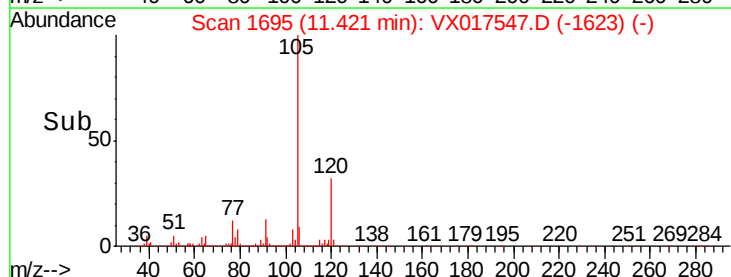
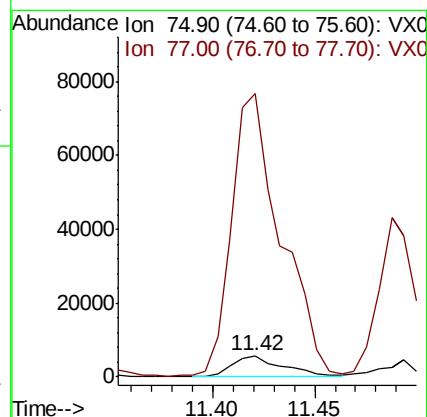
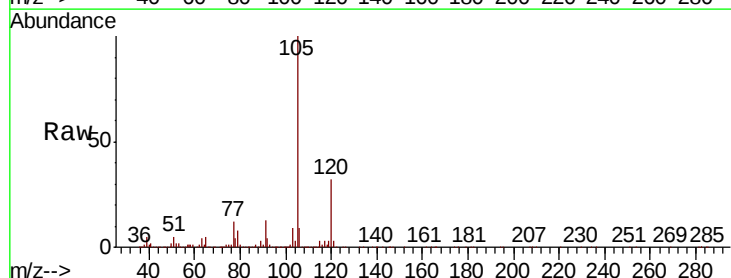
Acq: 24 Jul 2020 16:53

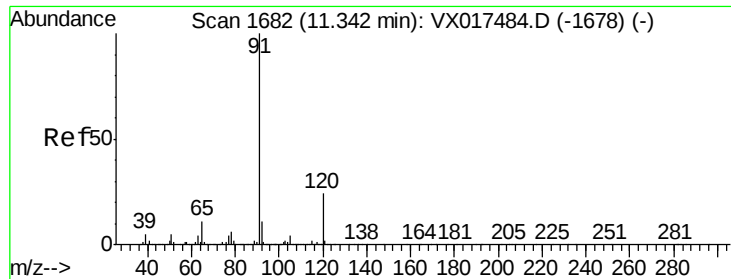
Tgt Ion: 75 Resp: 9667

Ion Ratio Lower Upper

75 100

77 1324.0 21.8 65.3#





#78

n-propylbenzene

Concen: 3.675 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

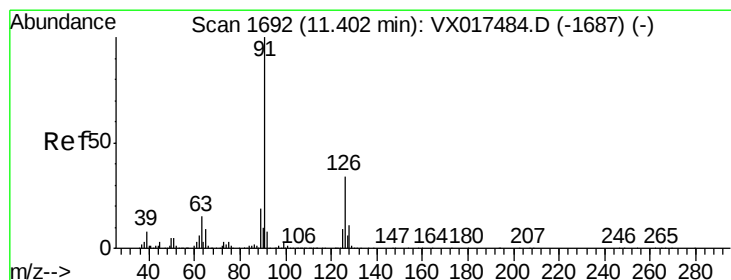
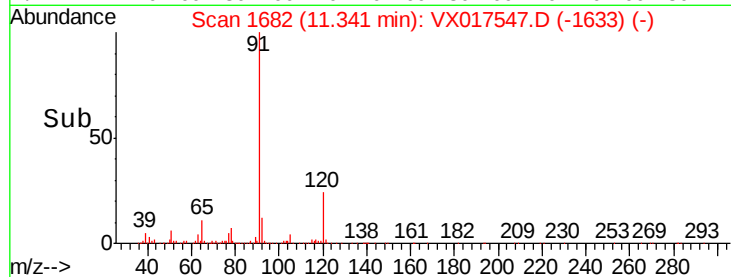
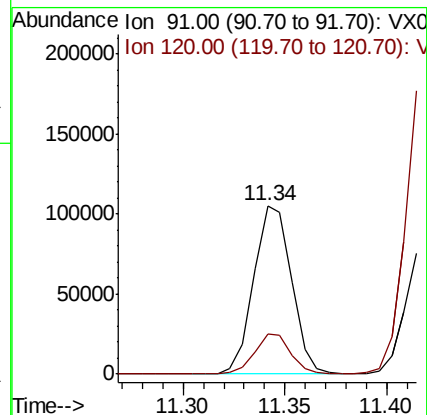
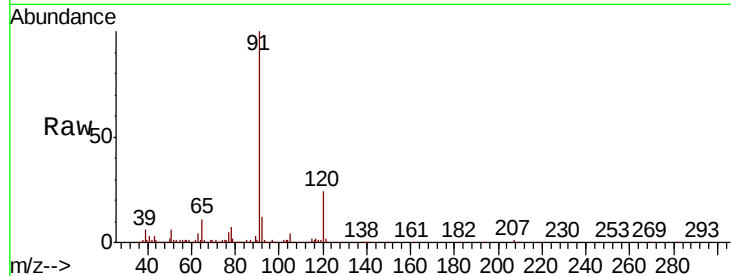
20758

Tot Ion: 91 Resp: 135456

Ion Ratio Lower Upper

91 100

120 22.9 12.2 36.4



#79

2-Chlorotoluene

Concen: 5.888 ug/l

RT: 11.42 min Scan# 1695

Delta R.T. 0.02 min

Lab File: VX017547.D

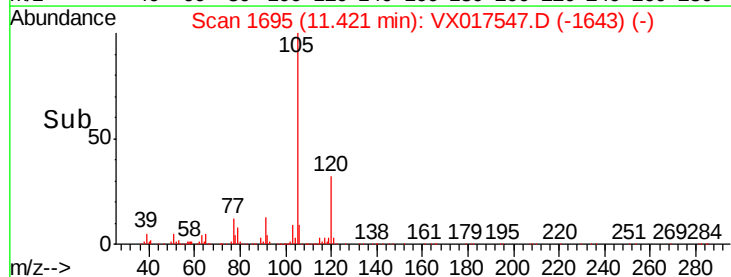
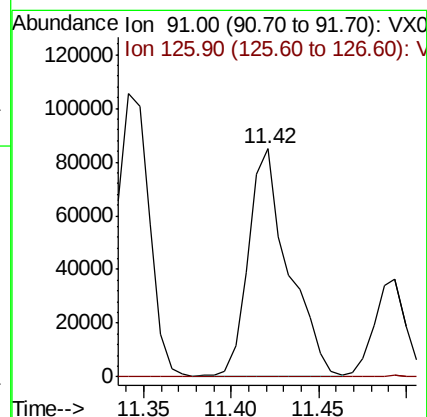
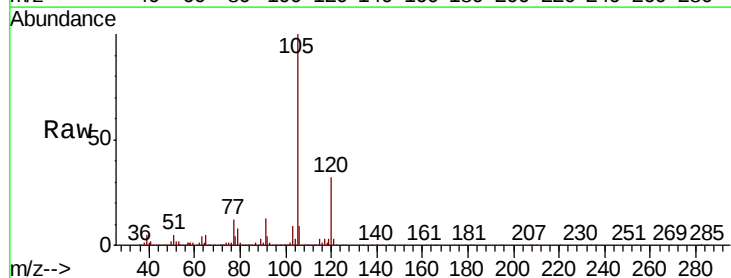
Acq: 24 Jul 2020 16:53

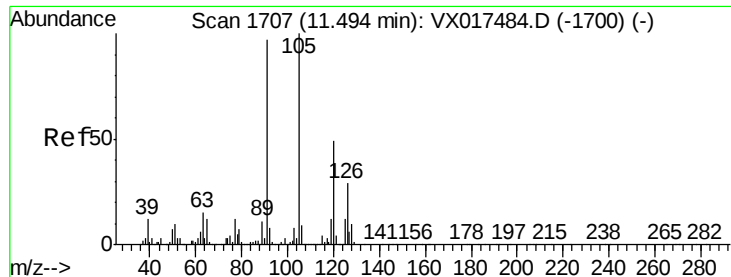
Tgt Ion: 91 Resp: 134432

Ion Ratio Lower Upper

91 100

126 0.2 17.5 52.5#





#80

1,3,5-Trimethylbenzene

Concen: 14.574 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

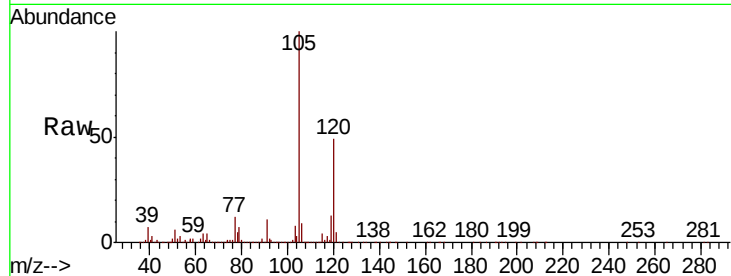
ClientSampleId :  
20758

Tot Ion:105 Resp: 406651

Ion Ratio Lower Upper

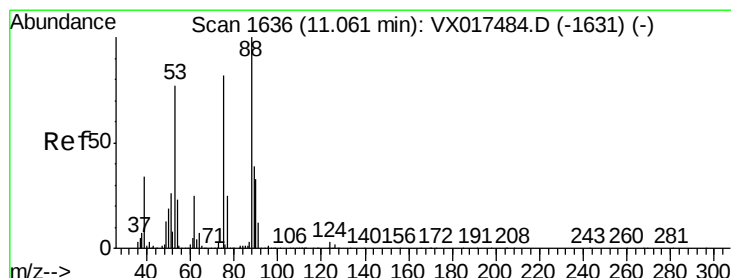
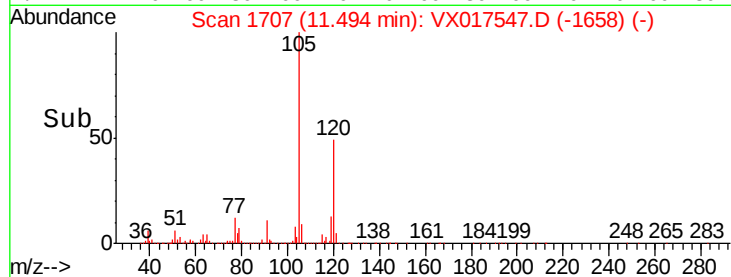
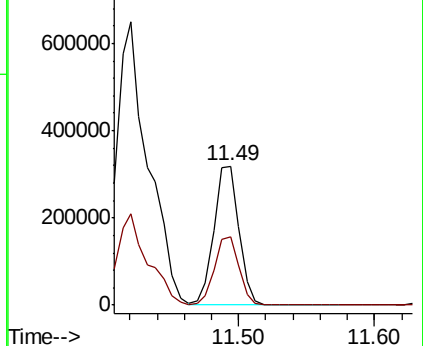
105 100

120 48.3 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 53.357 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

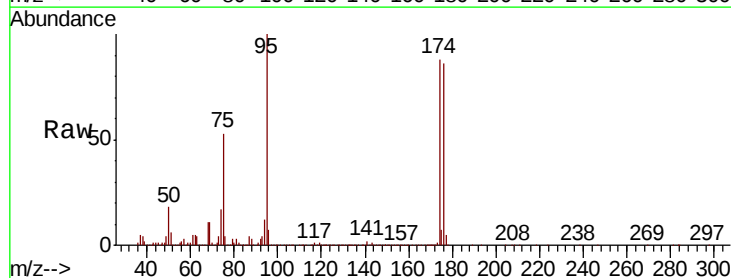
Tgt Ion: 75 Resp: 207507

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

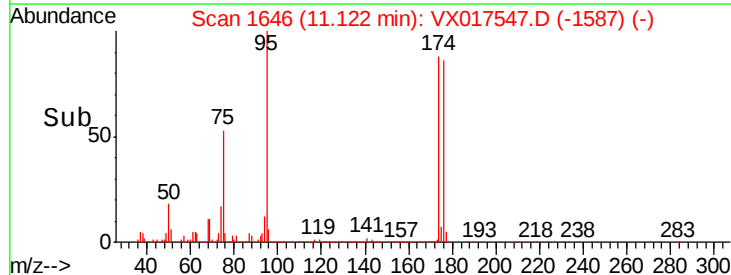
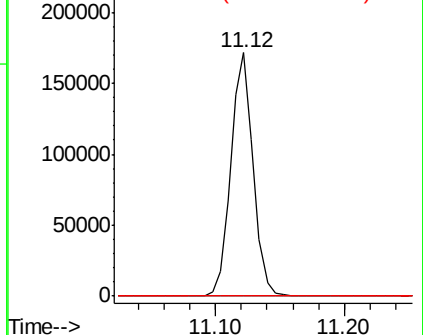
89 0.1 37.8 56.6#

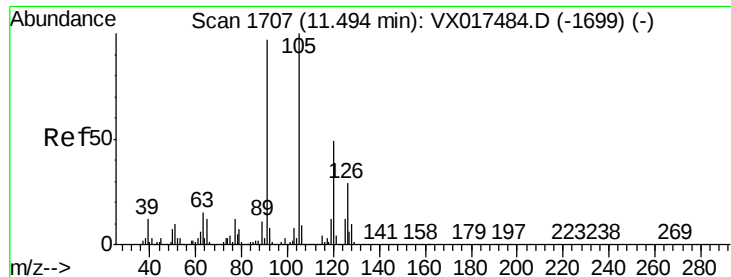


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#82

4-Chlorotoluene

Concen: 1.698 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

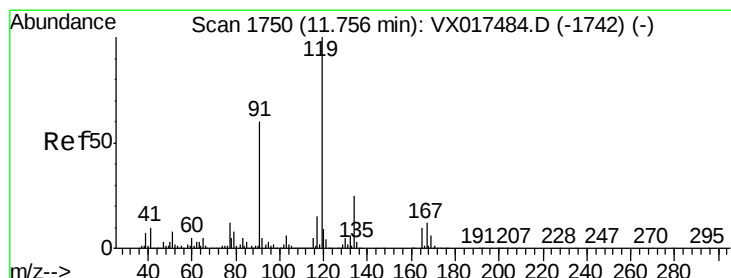
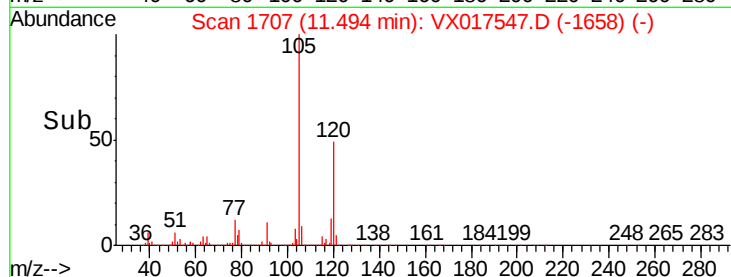
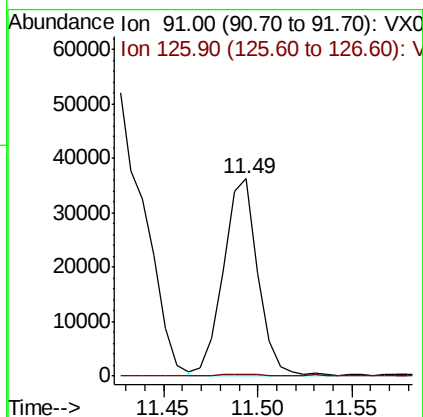
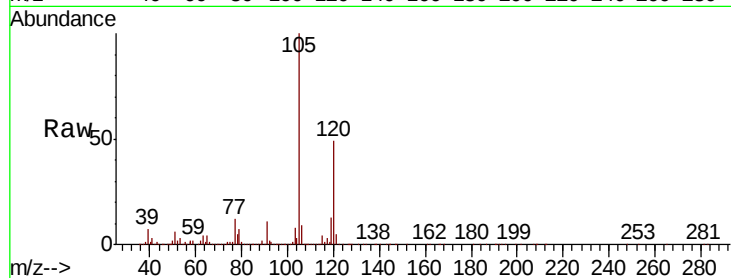
ClientSampleId :  
20758

Tot Ion: 91 Resp: 45732

Ion Ratio Lower Upper

91 100

126 1.1 15.2 45.6#



#83

tert-Butylbenzene

Concen: 10.873 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.04 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

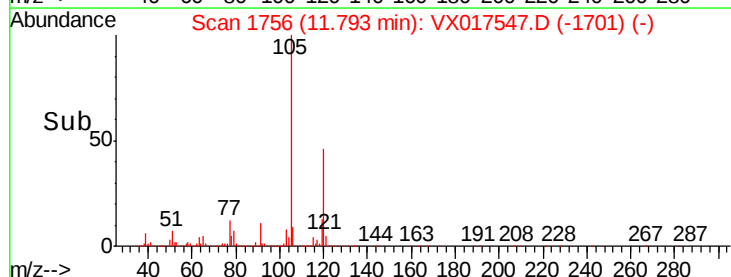
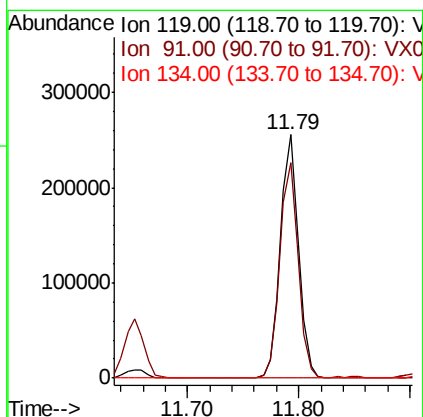
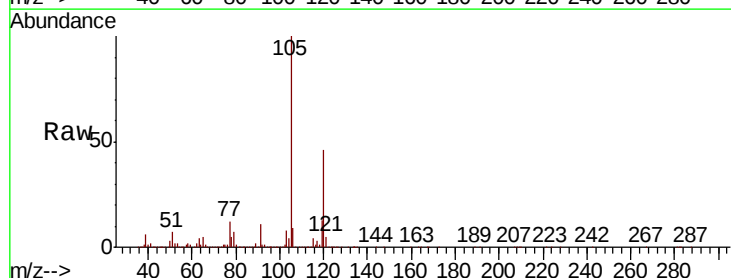
Tgt Ion: 119 Resp: 290313

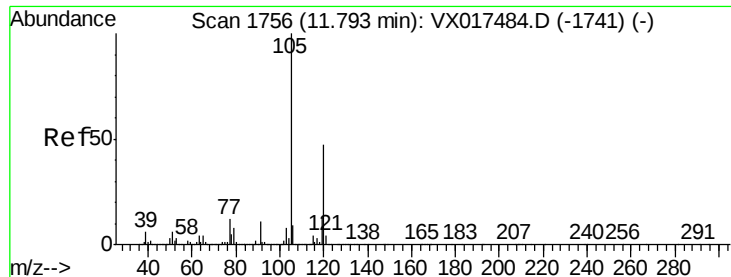
Ion Ratio Lower Upper

119 100

91 89.4 29.3 88.0#

134 0.0 11.2 33.6#





#84

1,2,4-Trimethylbenzene

Concen: 85.681 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

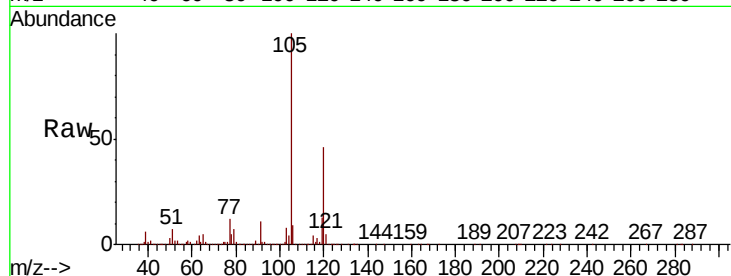
20758

Tot Ion:105 Resp: 2377913

Ion Ratio Lower Upper

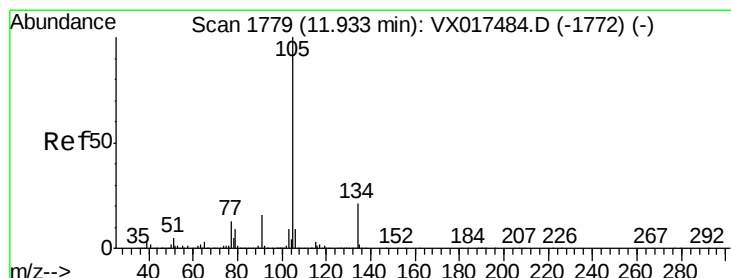
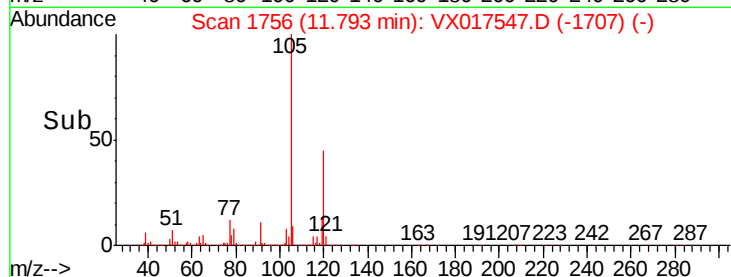
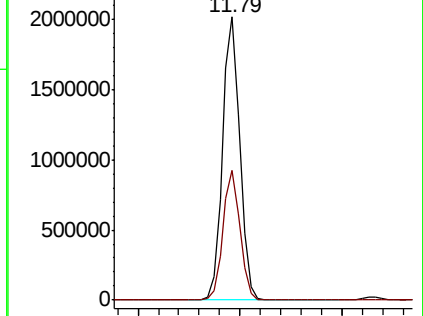
105 100

120 45.1 22.7 68.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 76.454 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.14 min

Lab File: VX017547.D

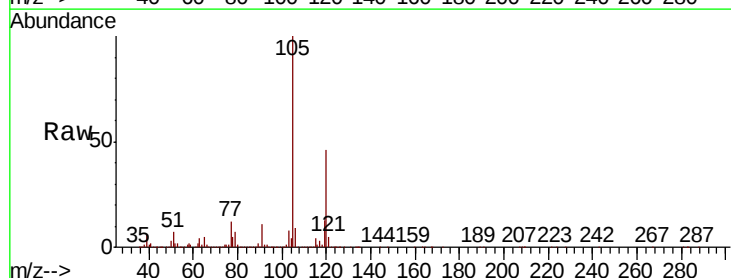
Acq: 24 Jul 2020 16:53

Tgt Ion:105 Resp: 2377913

Ion Ratio Lower Upper

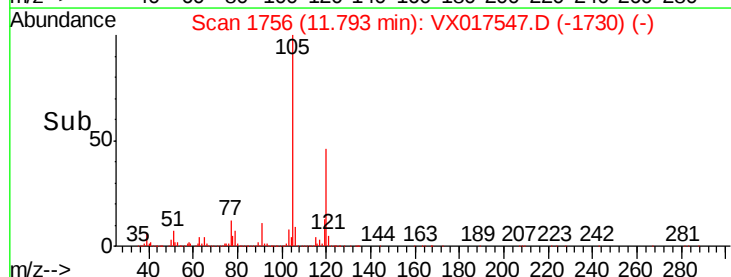
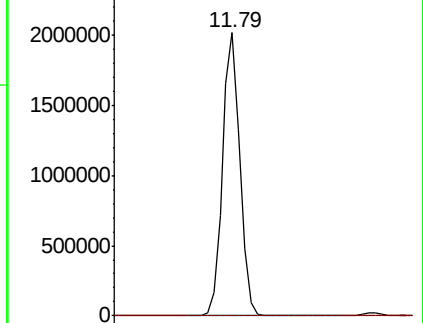
105 100

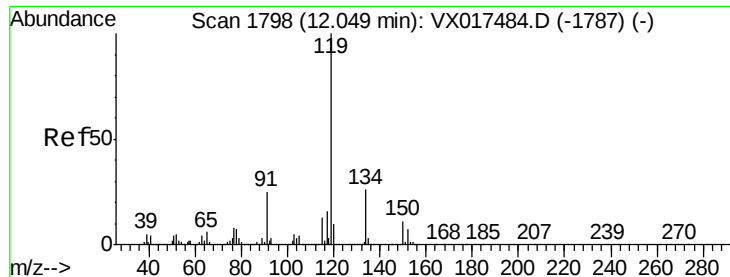
134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

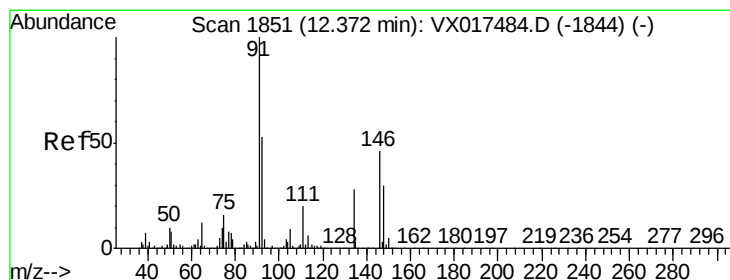
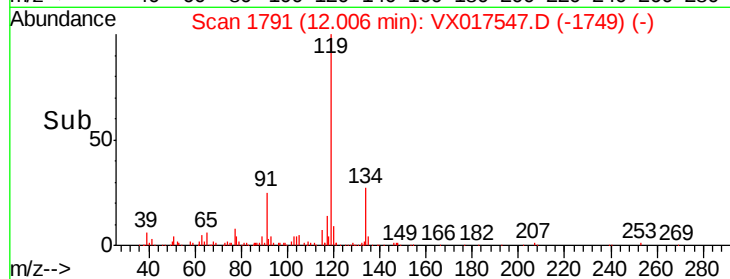
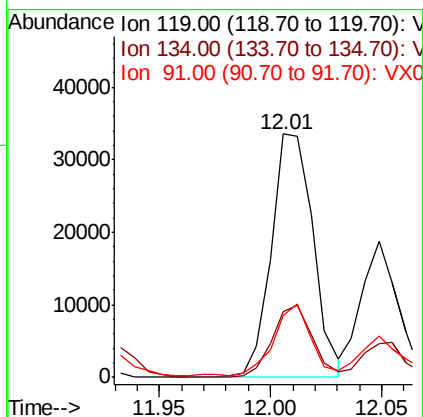
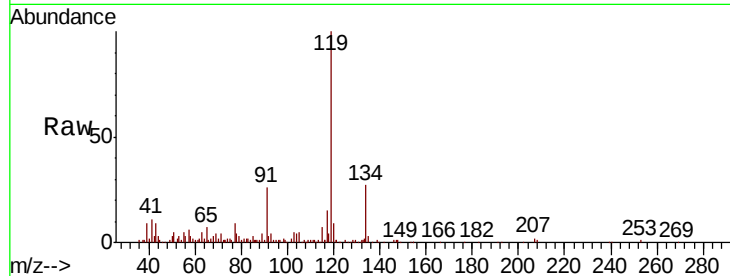




#86  
p-Isopropyltoluene  
Concen: 1.468 ug/l  
RT: 12.01 min Scan# 1791  
Delta R.T. -0.04 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

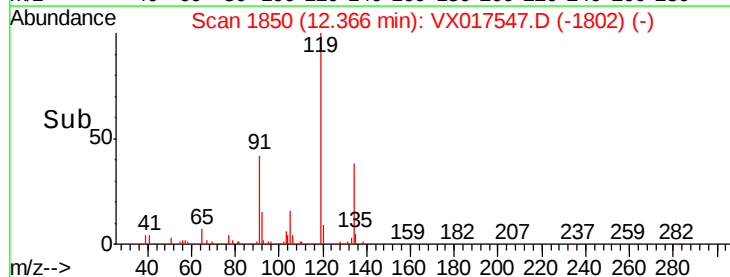
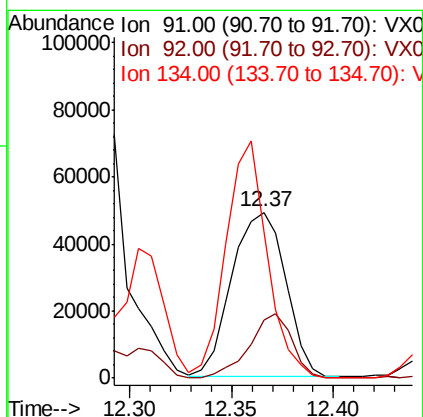
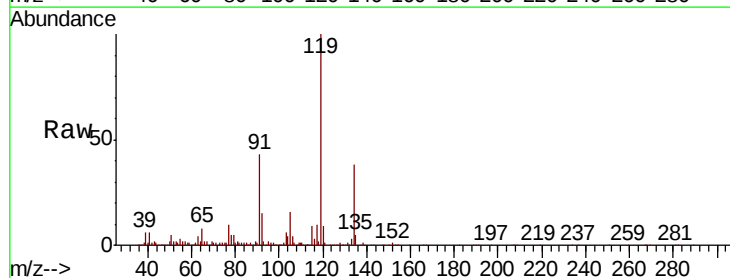
Instrument :  
MSVOA\_X  
ClientSampled :  
20758

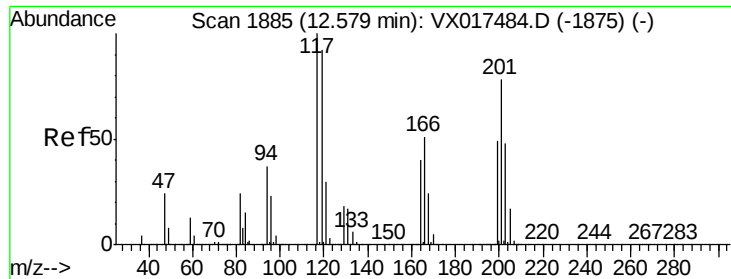
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 28.3  | 13.1  | 39.3  |
| 91      | 25.7  | 12.1  | 36.3  |



#89  
n-Butylbenzene  
Concen: 3.412 ug/l  
RT: 12.37 min Scan# 1850  
Delta R.T. -0.01 min  
Lab File: VX017547.D  
Acq: 24 Jul 2020 16:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 30.9  | 26.7  | 80.1  |
| 134     | 109.6 | 13.6  | 40.7# |





#90

Hexachloroethane

Concen: 5.111 ug/l

RT: 12.65 min Scan# 1897

Delta R.T. 0.07 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

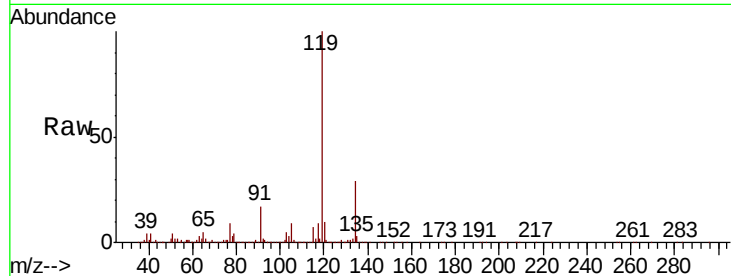
ClientSampleId :  
20758

Tot Ion:117 Resp: 29845

Ion Ratio Lower Upper

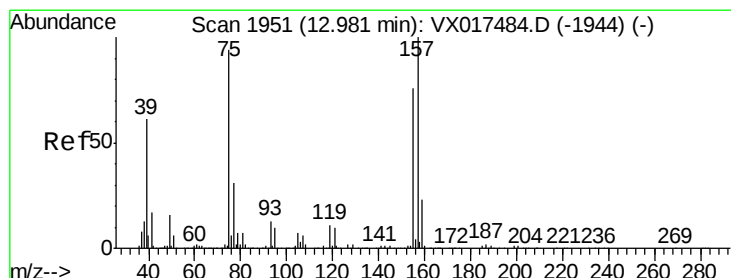
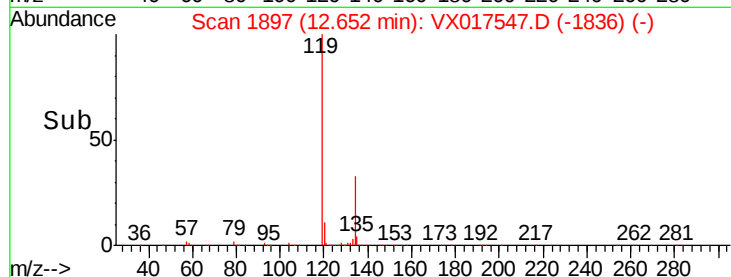
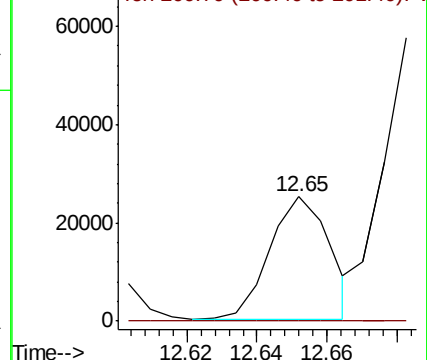
117 100

201 0.1 42.2 126.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.323 ug/l

RT: 12.96 min Scan# 1948

Delta R.T. -0.02 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

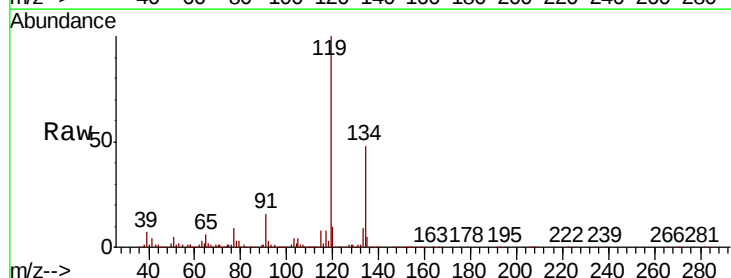
Tgt Ion: 75 Resp: 2269

Ion Ratio Lower Upper

75 100

155 21.6 42.3 126.8#

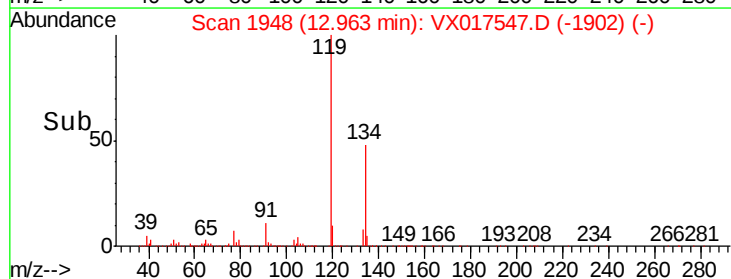
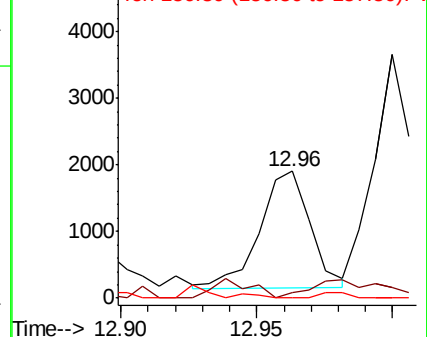
157 2.6 54.3 162.9#

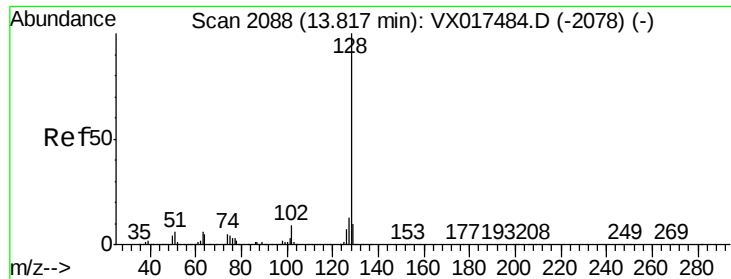


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 86.870 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017547.D

Acq: 24 Jul 2020 16:53

Instrument :

MSVOA\_X

ClientSampleId :

20758

Tot Ion:128 Resp: 2732905

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.9 8.9 13.3

