

Data File : VU039183.D  
Acq On : 29 Jun 2020 11:07  
Operator : SY/MD  
Sample : VSTD020  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Quant Time: Jun 29 11:24:36 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jun 29 10:40:23 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 260622   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.43  | 117  | 255355   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.82 | 152  | 129403   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 450157  | 23.59  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 350723  | 22.24  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 849586  | 23.17  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.67  | 46  | 1465892 | 212.83 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.10  | 84  | 800800  | 21.34  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 473155  | 20.49  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 1571566 | 22.19  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.72  | 67  | 488743  | 20.54  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.92  | 98  | 1407008 | 23.76  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 255131  | 24.67  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.65  | 63  | 1269607 | 237.87 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77 | 84  | 493919  | 22.33  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.20 | 152 | 539743  | 22.39  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 481344  | 20.638  | ug/L | 100    |
| 3) Chloromethane               | 1.53 | 50  | 472924  | 18.839  | ug/L | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 495825  | 19.585  | ug/L | 97     |
| 6) Bromomethane                | 1.88 | 94  | 266130  | 19.525  | ug/L | 98     |
| 8) Chloroethane                | 1.95 | 64  | 294564  | 19.305  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 676675  | 20.878  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 376982  | 19.980  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 367527  | 20.362  | ug/L | 98     |
| 13) Acetone                    | 2.68 | 43  | 826543  | 176.714 | ug/L | 100    |
| 14) Carbon disulfide           | 2.82 | 76  | 1263942 | 21.002  | ug/L | 98     |
| 15) Methyl Acetate             | 2.98 | 43  | 201495  | 18.145  | ug/L | 98     |
| 16) Methylene chloride         | 3.07 | 84  | 393054  | 17.650  | ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 1046260 | 20.361  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 382600  | 19.809  | ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 720954  | 18.777  | ug/L | 99     |
| 21) 2-Butanone                 | 4.75 | 43  | 1393227 | 195.918 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 4.70 | 96  | 408356  | 19.593  | ug/L | 100    |
| 23) Bromochloromethane         | 5.01 | 128 | 184249  | 19.210  | ug/L | 98     |
| 25) Chloroform                 | 5.12 | 83  | 720735  | 18.685  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 524852  | 19.095  | ug/L | 99     |
| 29) 1,1,1-Trichloroethane      | 5.35 | 97  | 650211  | 20.403  | ug/L | 100    |
| 30) Cyclohexane                | 5.42 | 56  | 686986  | 23.169  | ug/L | 98     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 551539  | 20.784  | ug/L | 100    |
| 33) Benzene                    | 5.81 | 78  | 1584327 | 19.747  | ug/L | 100    |
| 34) Trichloroethene            | 6.57 | 95  | 403438  | 20.789  | ug/L | 98     |
| 35) Methylcyclohexane          | 6.79 | 83  | 683070  | 23.721  | ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.82 | 63  | 410285  | 18.876  | ug/L | 100    |
| 38) Bromodichloromethane       | 7.13 | 83  | 534579  | 19.726  | ug/L | 97     |
| 39) cis-1,3-Dichloropropene    | 7.63 | 75  | 656694  | 21.797  | ug/L | 98     |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 3263536 | 201.161 | ug/L | 99     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jun 29 10:40:23 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.99  | 91   | 1686795  | 21.181  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.23  | 75   | 719570   | 25.525  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.42  | 97   | 309402   | 19.152  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.57  | 164  | 295951   | 21.159  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.71  | 43   | 2459163  | 206.767 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.83  | 129  | 365212   | 20.790  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.94  | 107  | 302939   | 19.834  | ug/L  | 98       |
| 51) Chlorobenzene              | 9.47  | 112  | 1028180  | 20.509  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.59  | 91   | 1893477  | 22.620  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.71  | 106  | 709727   | 23.058  | ug/L  | 100      |
| 54) o-Xylene                   | 10.11 | 106  | 688547   | 23.286  | ug/L  | 98       |
| 55) Styrene                    | 10.13 | 104  | 1208499  | 23.272  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.50 | 105  | 1838110  | 23.724  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 407782   | 18.878  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 315936   | 19.279  | ug/L  | 100      |
| 61) Bromoform                  | 10.31 | 173  | 212527   | 20.107  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 817483   | 21.246  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 821909   | 20.740  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.22 | 146  | 785592   | 20.362  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 13.01 | 75   | 82262    | 19.329  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 618431   | 21.717  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 576756   | 22.235  | ug/L  | 99       |
| 69) Naphthalene                | 14.11 | 128  | 1237067  | 22.355  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 532323   | 21.262  | ug/L  | 99       |

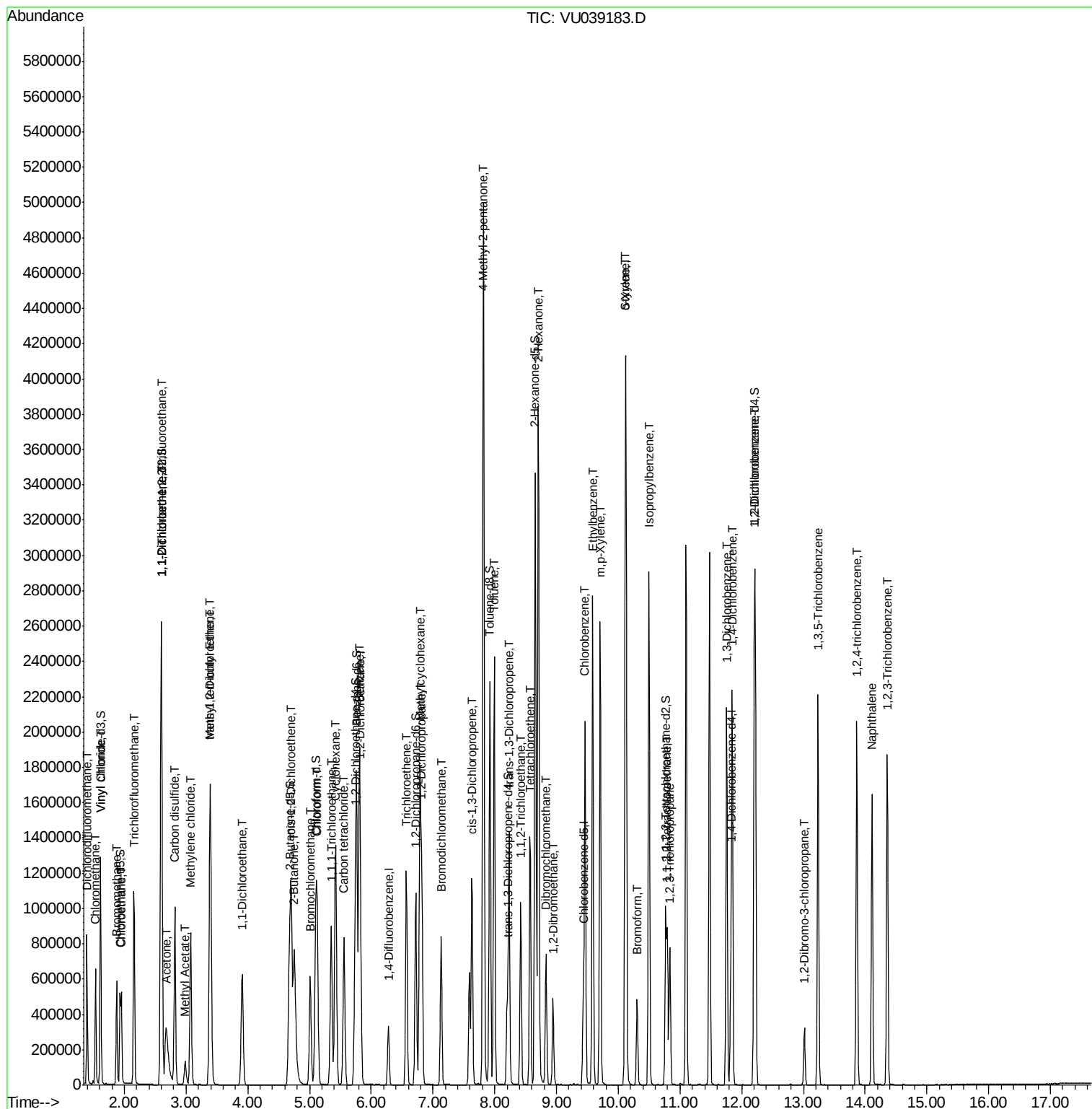
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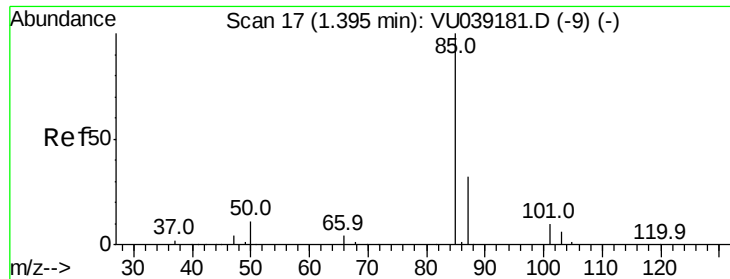
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#2

Dichlorodifluoromethane

Concen: 20.638 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

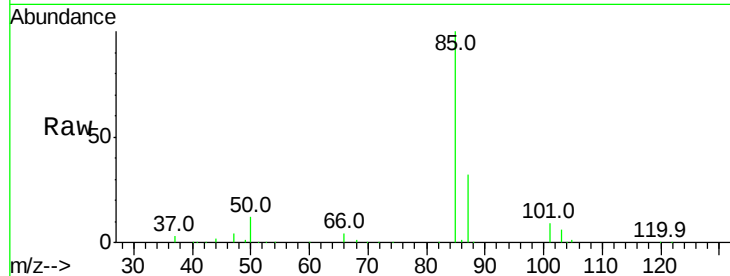
VSTD02006

Tgt Ion: 85 Resp: 481344

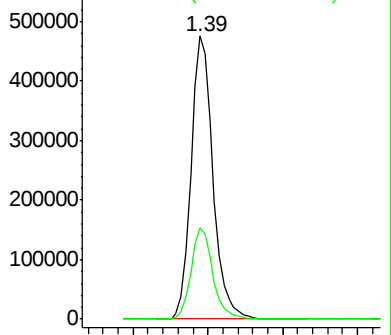
Ion Ratio Lower Upper

85 100

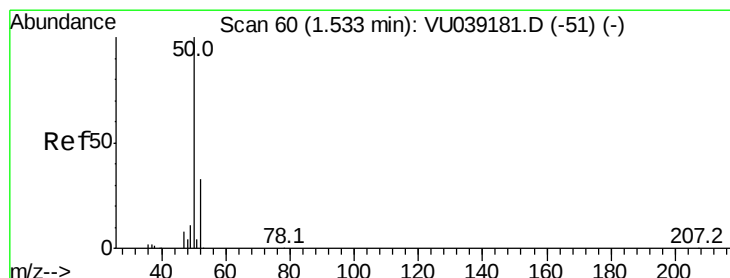
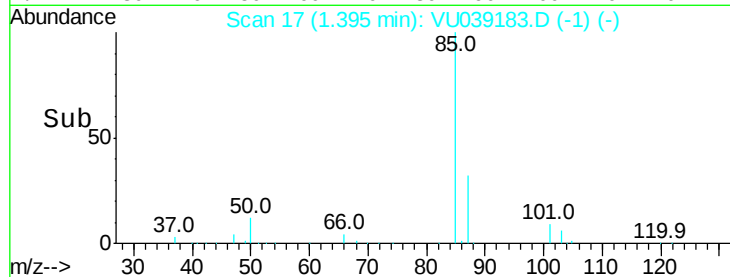
87 32.1 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU039183.D (-9) (-)



Time-->



#3

Chloromethane

Concen: 18.839 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU039183.D

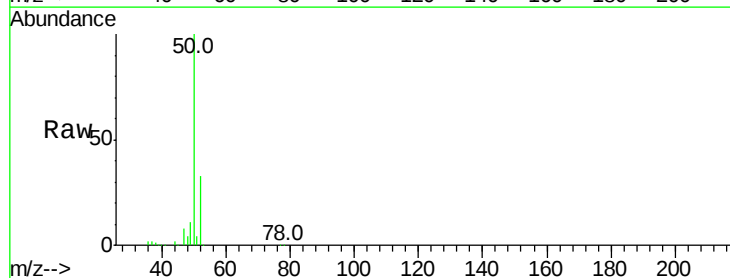
Acq: 29 Jun 2020 11:07

Tgt Ion: 50 Resp: 472924

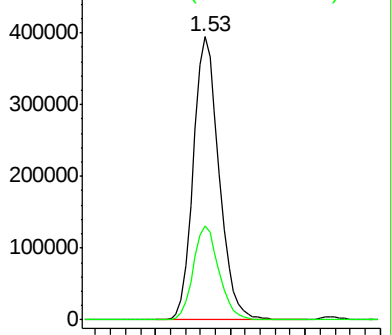
Ion Ratio Lower Upper

50 100

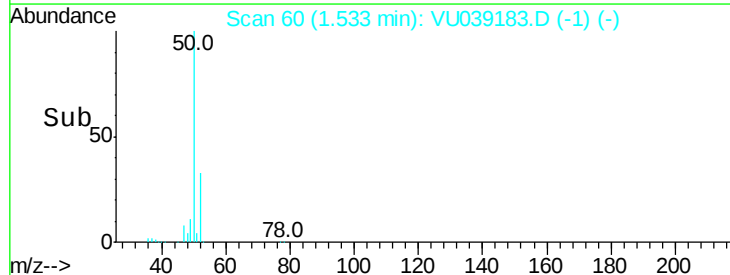
52 33.3 22.9 42.5

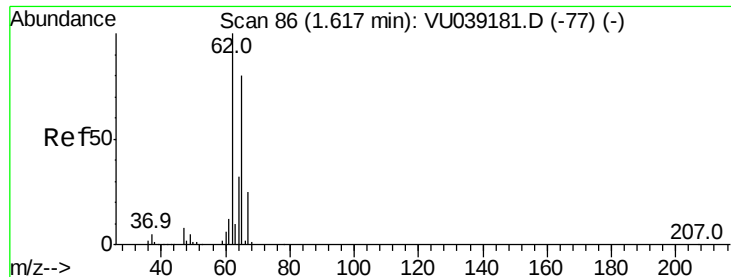


Abundance Ion 50.05 (49.75 to 50.75): VU039183.D (-51) (-)



Time-->





#5

Vinyl chloride

Concen: 19.585 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

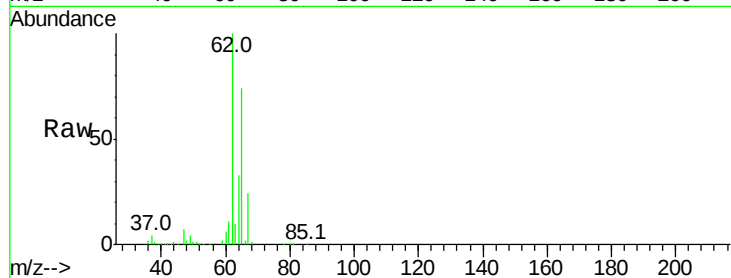
VSTD02006

Tgt Ion: 62 Resp: 495825

Ion Ratio Lower Upper

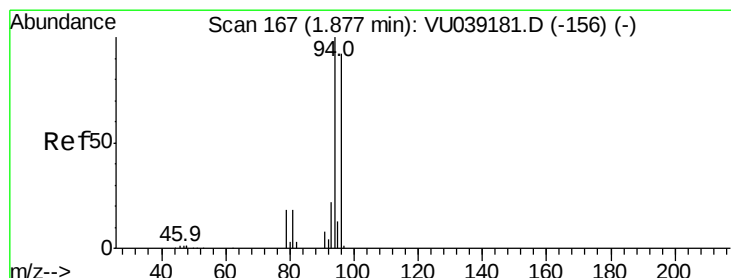
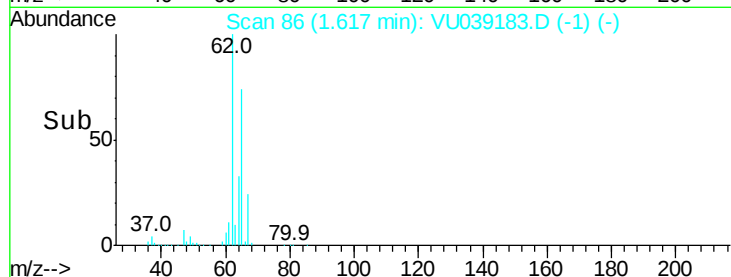
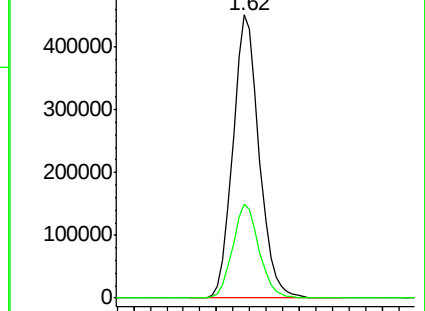
62 100

64 33.3 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU039183.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU039183.D (-77) (-)



#6

Bromomethane

Concen: 19.525 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU039183.D

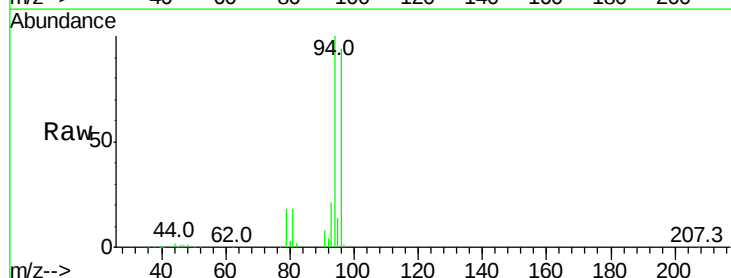
Acq: 29 Jun 2020 11:07

Tgt Ion: 94 Resp: 266130

Ion Ratio Lower Upper

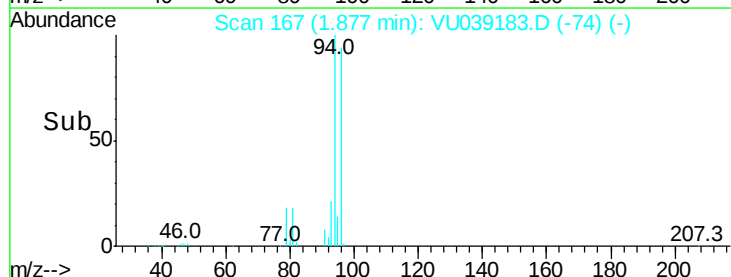
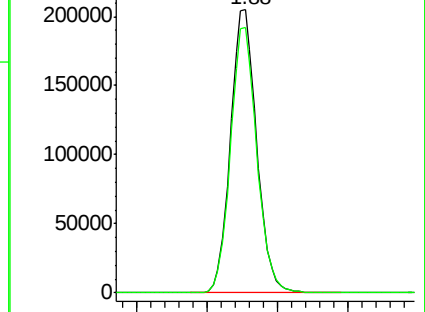
94 100

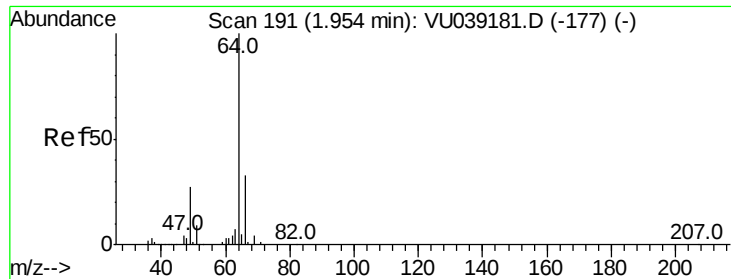
96 93.7 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU039183.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU039183.D (-156) (-)





#8

Chloroethane

Concen: 19.305 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

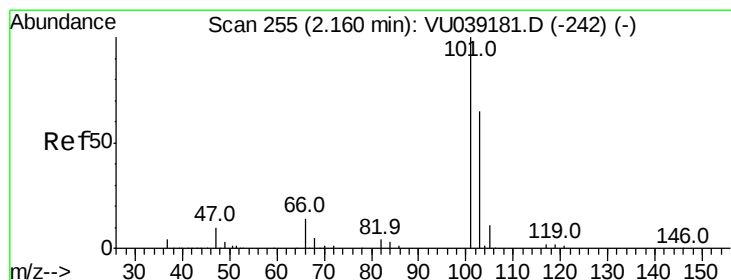
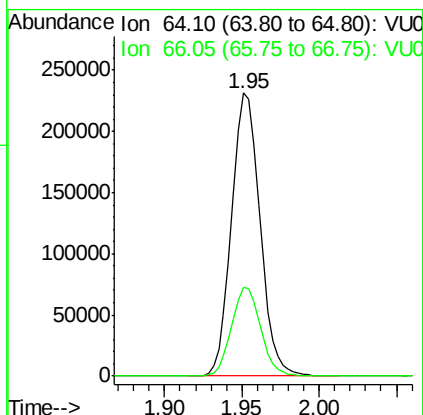
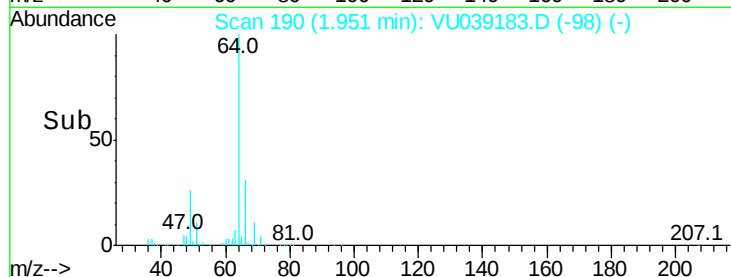
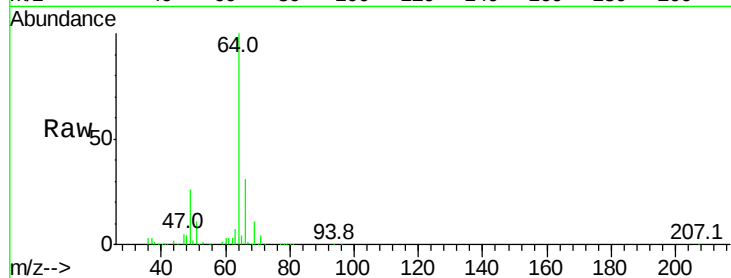
VSTD02006

Tgt Ion: 64 Resp: 294564

Ion Ratio Lower Upper

64 100

66 31.2 23.4 43.6



#9

Trichlorofluoromethane

Concen: 20.878 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU039183.D

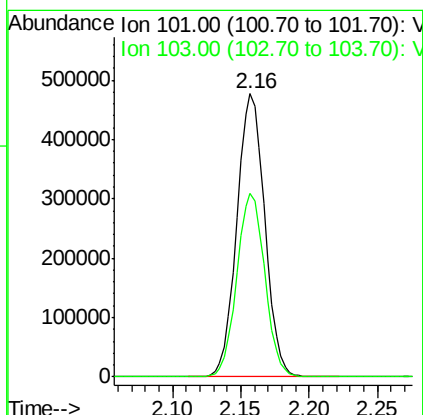
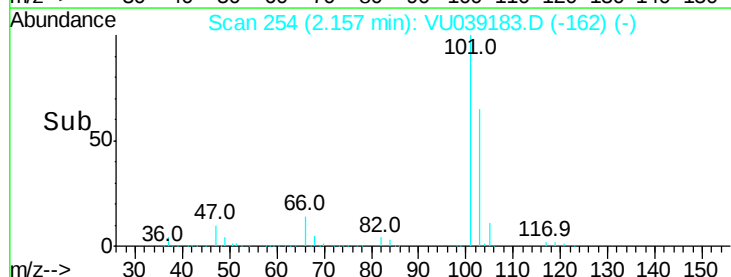
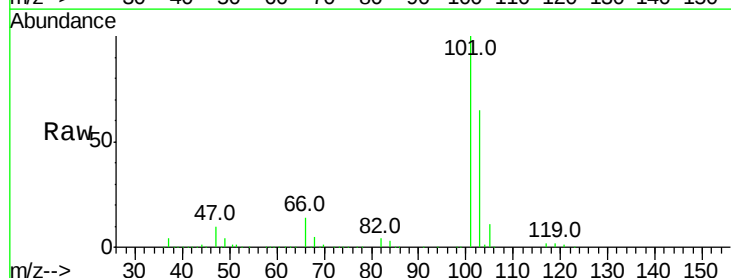
Acq: 29 Jun 2020 11:07

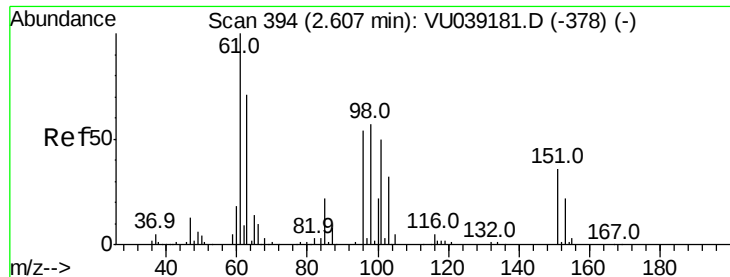
Tgt Ion: 101 Resp: 676675

Ion Ratio Lower Upper

101 100

103 65.0 51.7 77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 19.980 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

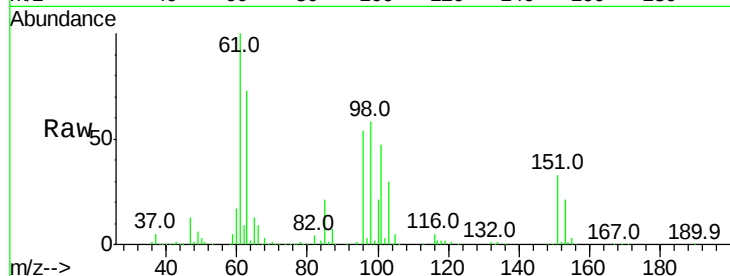
Tgt Ion: 101 Resp: 376982

Ion Ratio Lower Upper

101 100

85 44.7 36.0 54.0

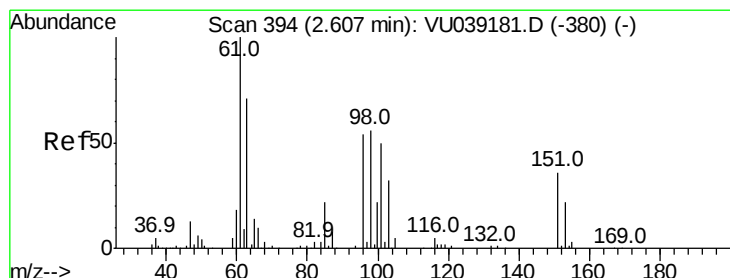
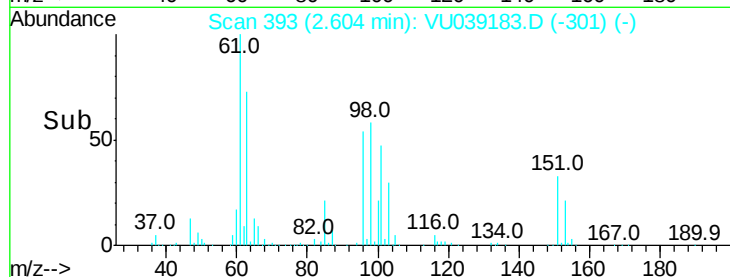
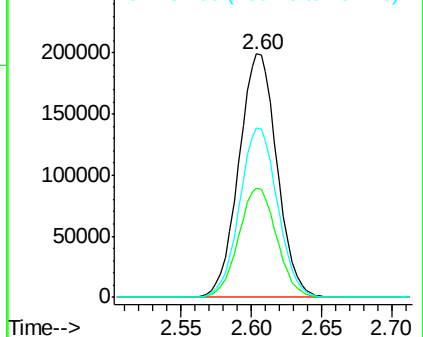
151 69.2 54.7 82.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 20.362 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

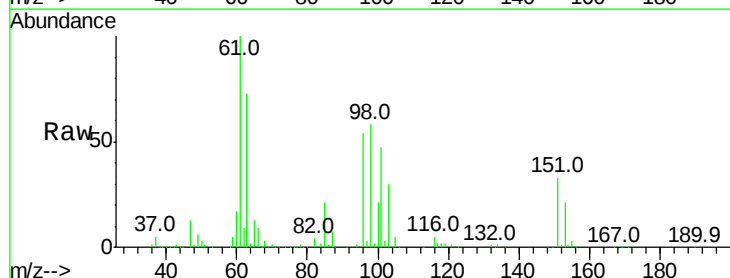
Tgt Ion: 96 Resp: 367527

Ion Ratio Lower Upper

96 100

61 185.8 128.7 239.1

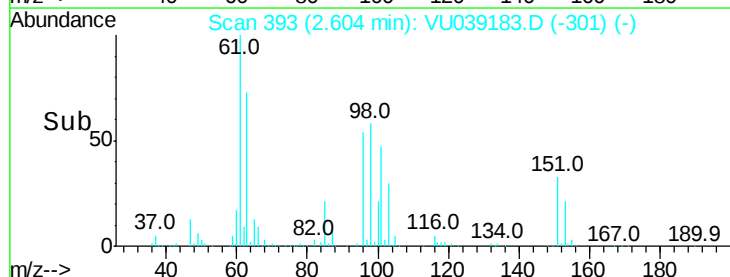
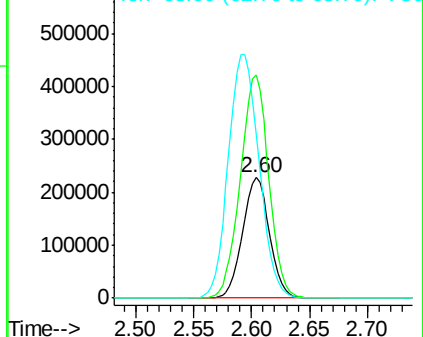
63 135.5 92.3 171.3

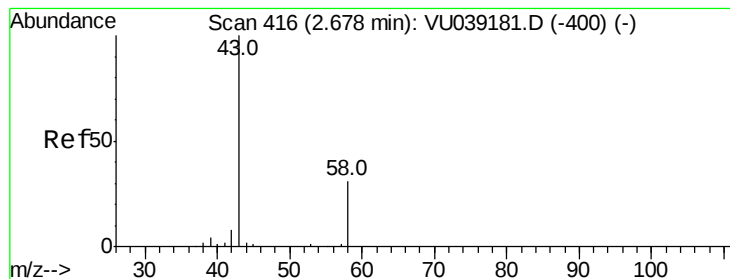


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 176.714 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU039183.D

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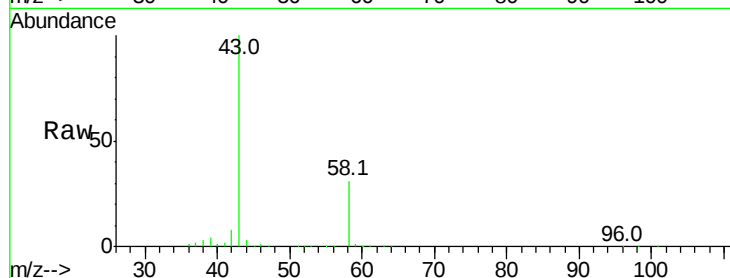
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Tgt Ion: 43 Resp: 826543

Ion Ratio Lower Upper

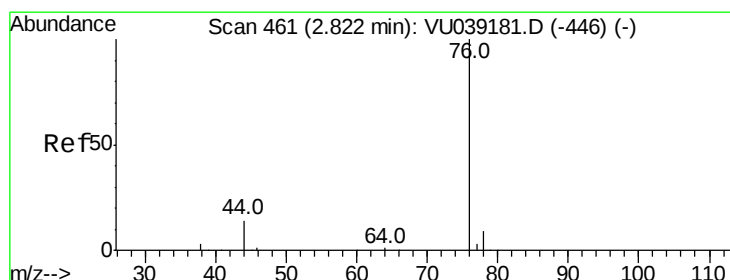
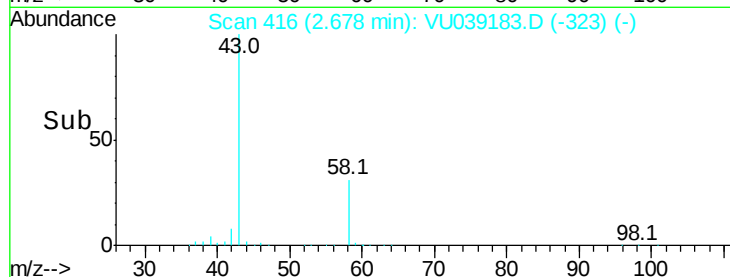
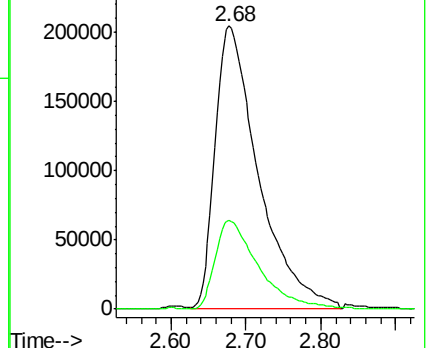
43 100

58 31.5 0.0 63.2



Abundance Ion 43.05 (42.75 to 43.75): VU039183.D (-323) (-)

Ion 58.05 (57.75 to 58.75): VU039183.D (-323) (-)



#14

Carbon disulfide

Concen: 21.002 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU039183.D

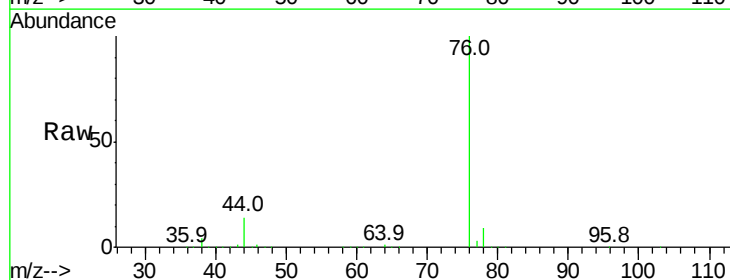
Acq: 29 Jun 2020 11:07

Tgt Ion: 76 Resp: 1263942

Ion Ratio Lower Upper

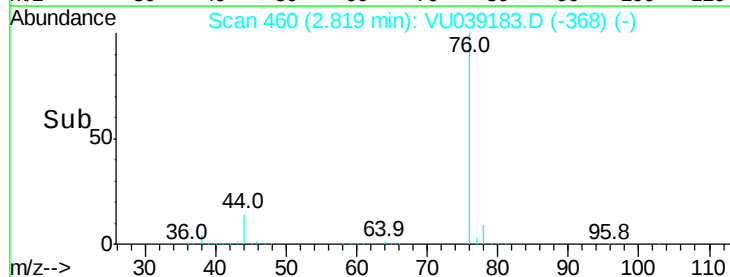
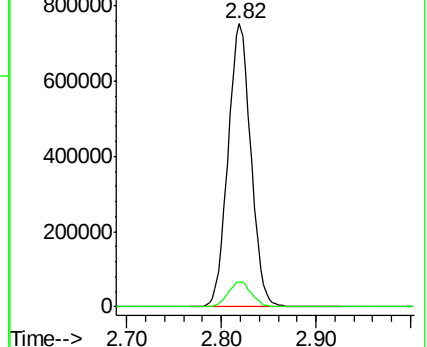
76 100

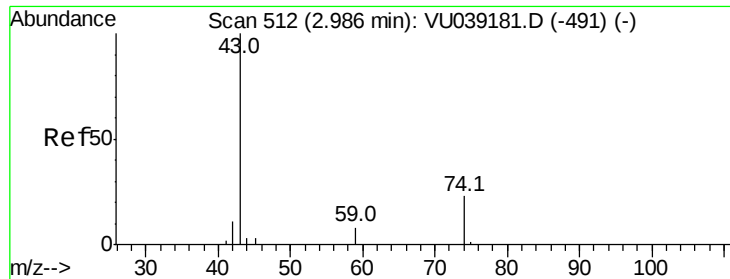
78 8.9 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU039183.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU039183.D (-368) (-)





#15

Methyl Acetate

Concen: 18.145 ug/L

RT: 2.98 min Scan# 511

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

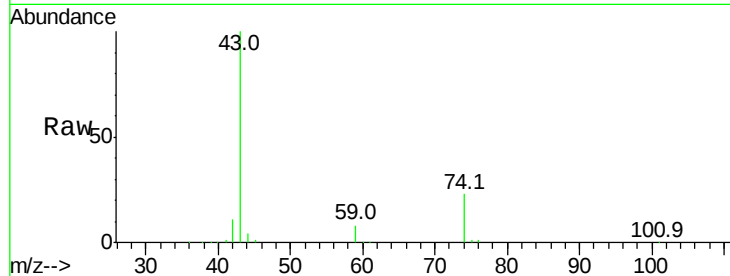
VSTD02006

Tgt Ion: 43 Resp: 201495

Ion Ratio Lower Upper

43 100

74 23.2 17.8 26.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.98

80000

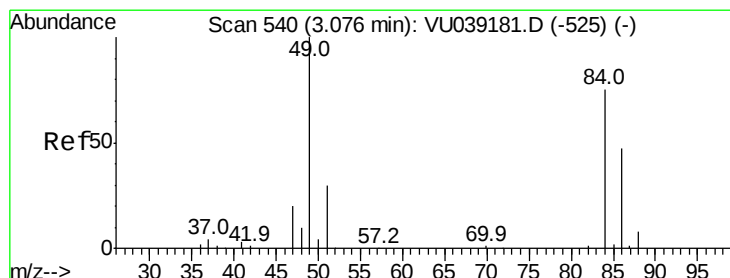
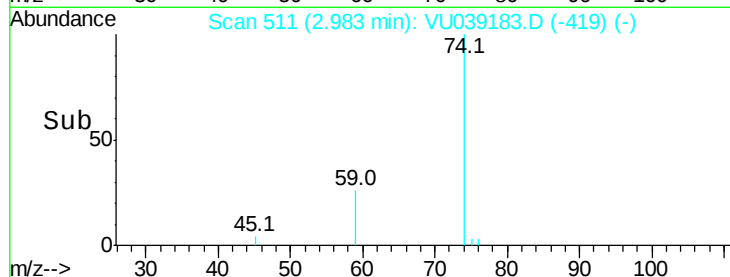
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 17.650 ug/L

RT: 3.07 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

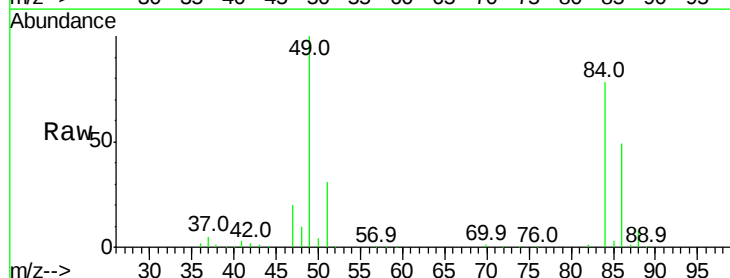
Tgt Ion: 84 Resp: 393054

Ion Ratio Lower Upper

84 100

86 63.4 44.2 82.2

49 128.6 93.2 173.0



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

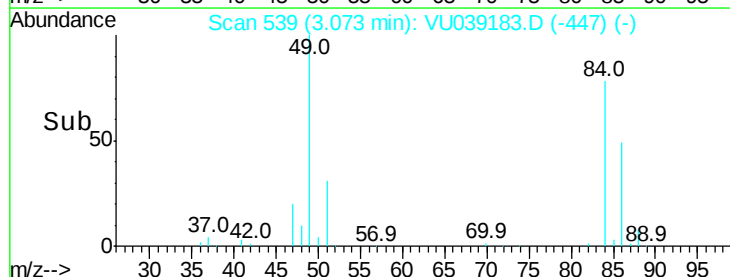
300000

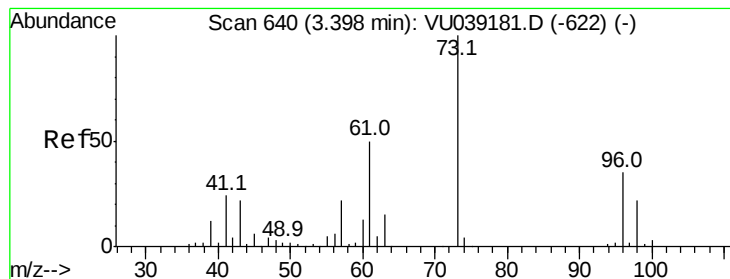
200000

100000

0

Time-->





#17

Methyl tert-butyl Ether

Concen: 20.361 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

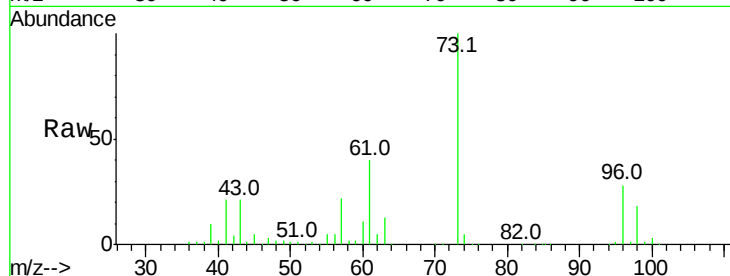
Tgt Ion: 73 Resp: 1046260

Ion Ratio Lower Upper

73 100

43 20.8 17.4 26.0

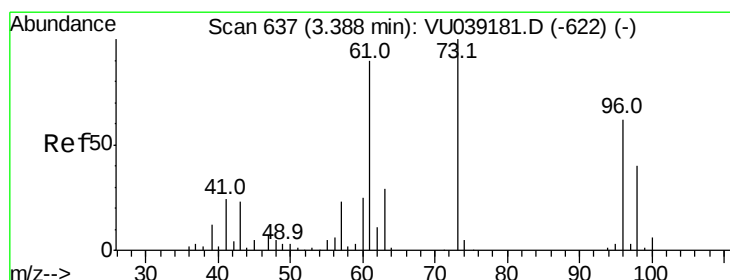
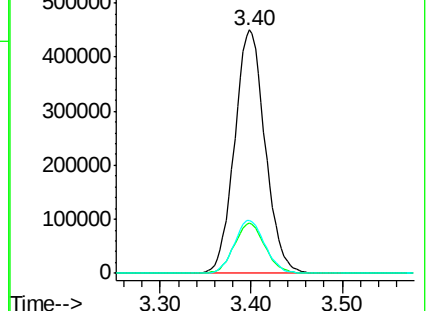
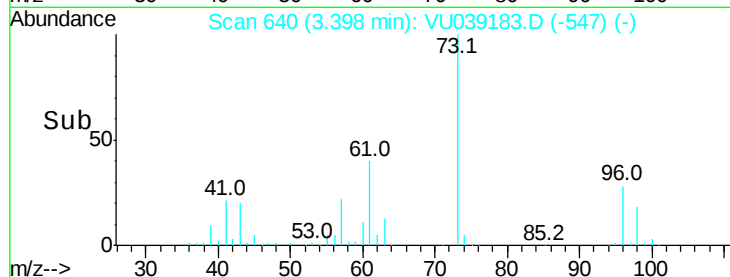
57 22.0 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VU039183.D (-547) (-)

Ion 43.05 (42.75 to 43.75): VU039183.D (-547) (-)

Ion 57.10 (56.80 to 57.80): VU039183.D (-547) (-)



#18

trans-1,2-Dichloroethene

Concen: 19.809 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

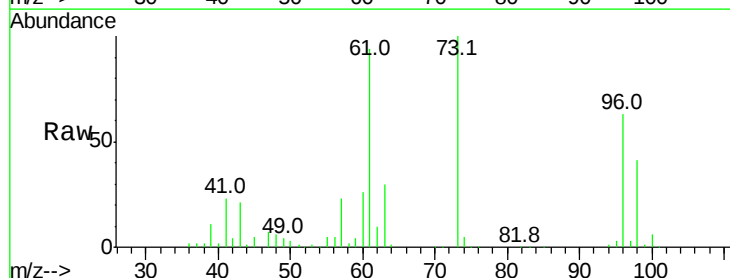
Tgt Ion: 96 Resp: 382600

Ion Ratio Lower Upper

96 100

61 148.7 100.5 186.7

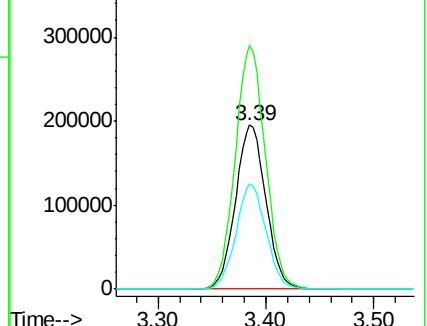
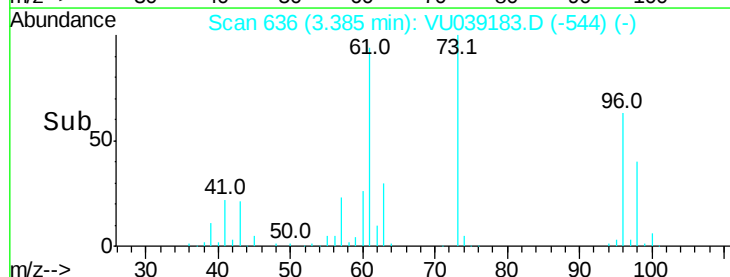
98 64.0 44.7 83.1

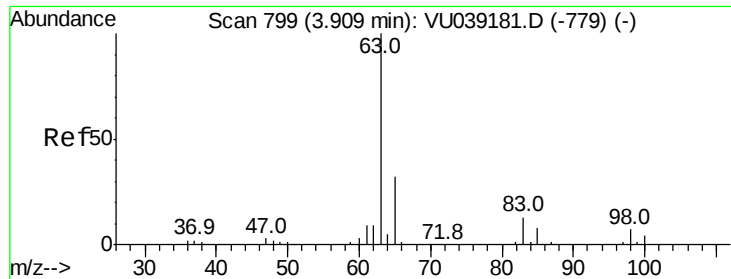


Abundance Ion 96.00 (95.70 to 96.70): VU039183.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU039183.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU039183.D (-544) (-)

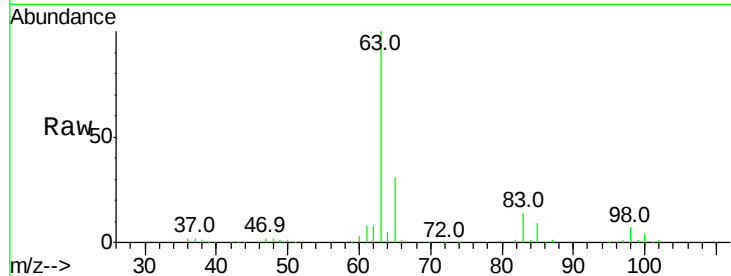




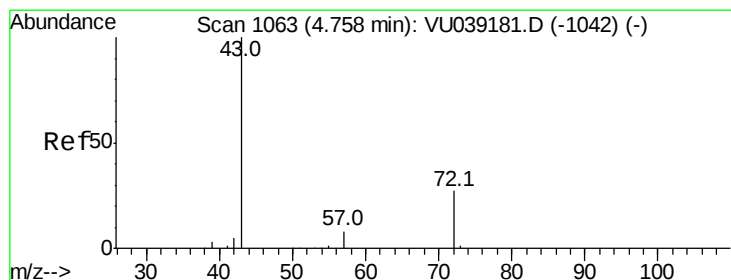
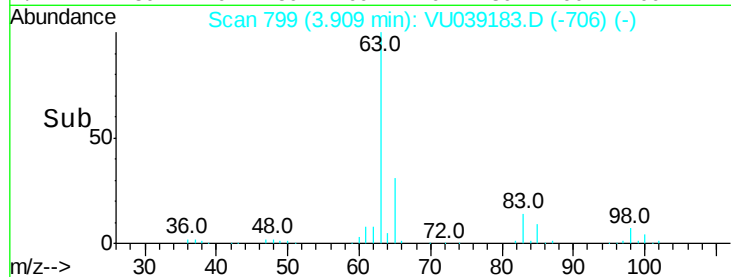
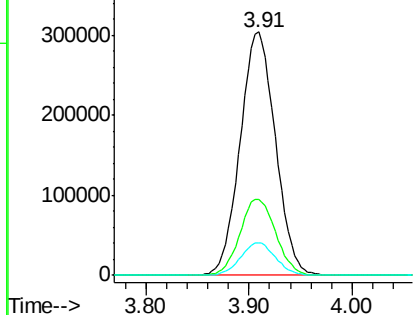
#19  
 1,1-Dichloroethane  
 Concen: 18.777 ug/L  
 RT: 3.91 min Scan# 799  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

Tgt Ion: 63 Resp: 720954  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 22.4 41.6  
 83 13.5 9.2 17.2

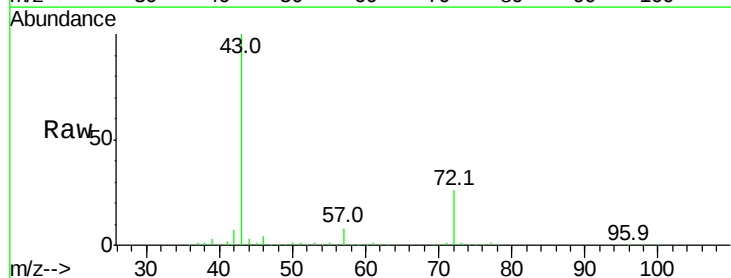


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

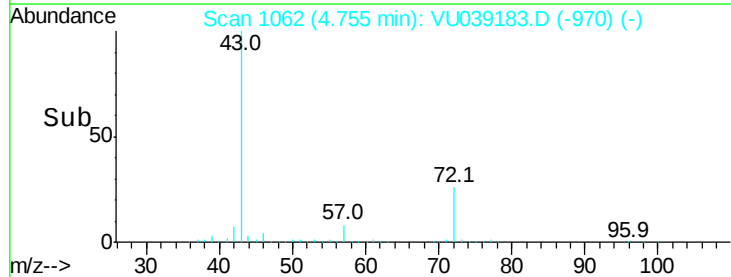
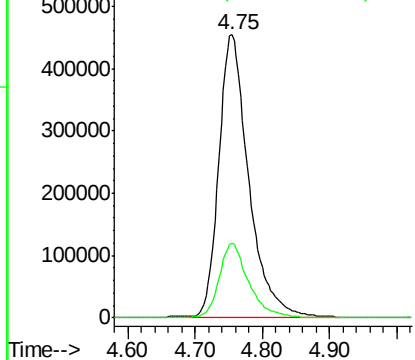


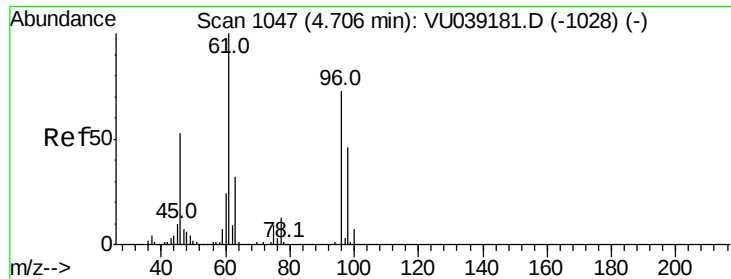
#21  
 2-Butanone  
 Concen: 195.918 ug/L  
 RT: 4.75 min Scan# 1062  
 Delta R.T. -0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Tgt Ion: 43 Resp: 1393227  
 Ion Ratio Lower Upper  
 43 100  
 72 26.6 13.2 39.6



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 19.593 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

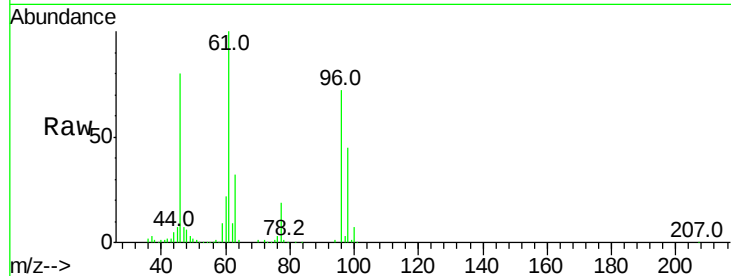
Tgt Ion: 96 Resp: 408356

Ion Ratio Lower Upper

96 100

61 138.0 96.3 178.9

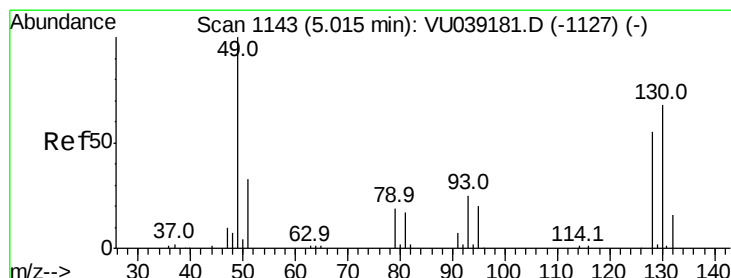
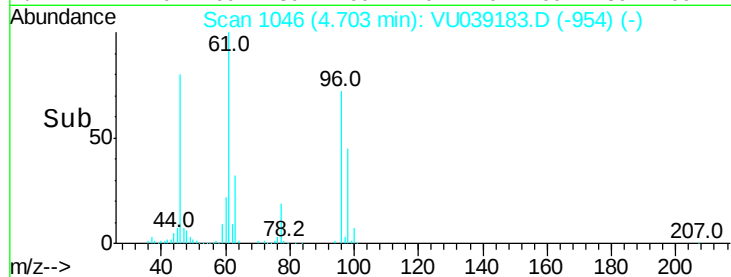
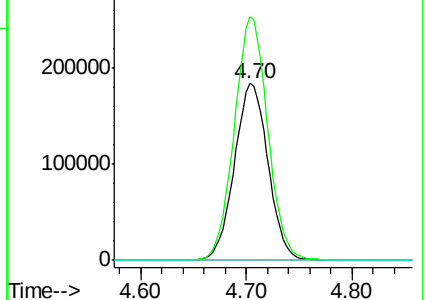
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039183.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU039183.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU039183.D (-954) (-)



#23

Bromochloromethane

Concen: 19.210 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Tgt Ion: 128 Resp: 184249

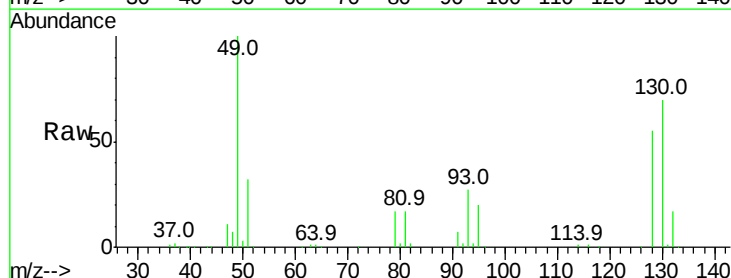
Ion Ratio Lower Upper

128 100

49 180.3 126.7 235.3

130 126.7 86.2 160.2

51 57.0 47.5 71.3

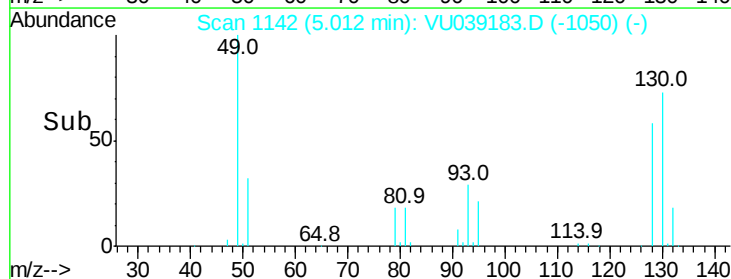
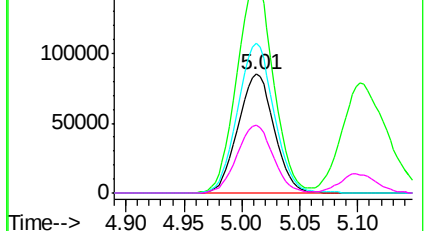


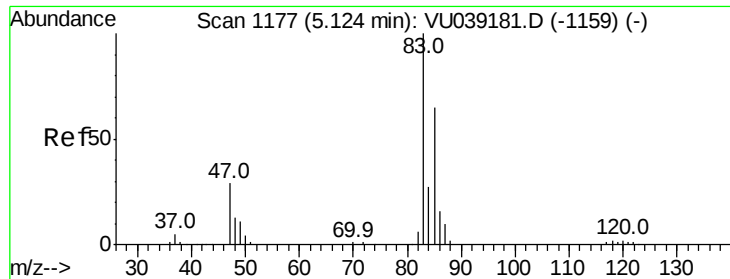
Abundance Ion 127.90 (127.60 to 128.60): VU039183.D (-1050) (-)

Ion 49.10 (48.80 to 49.80): VU039183.D (-1050) (-)

Ion 129.95 (129.65 to 130.65): VU039183.D (-1050) (-)

Ion 51.05 (50.75 to 51.75): VU039183.D (-1050) (-)

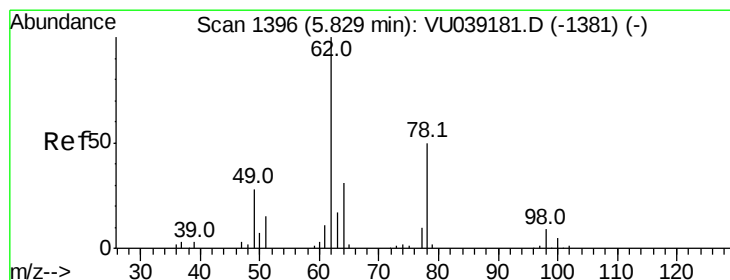
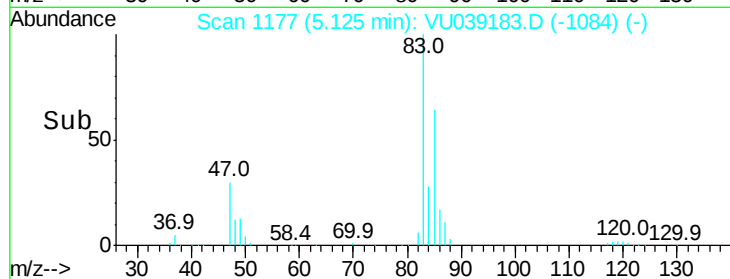
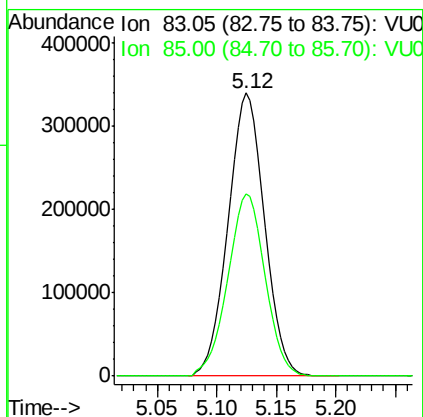
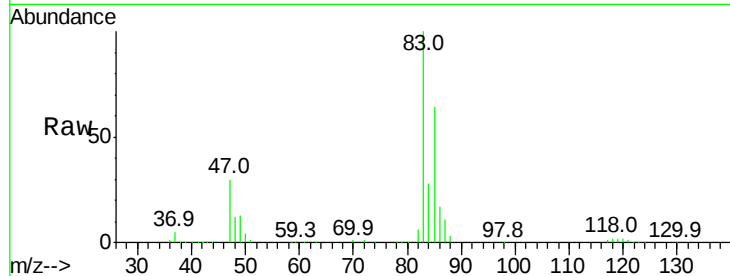




#25  
Chloroform  
Concen: 18.685 ug/L  
RT: 5.12 min Scan# 1177  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

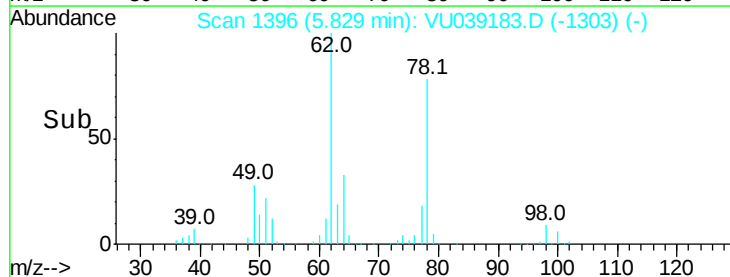
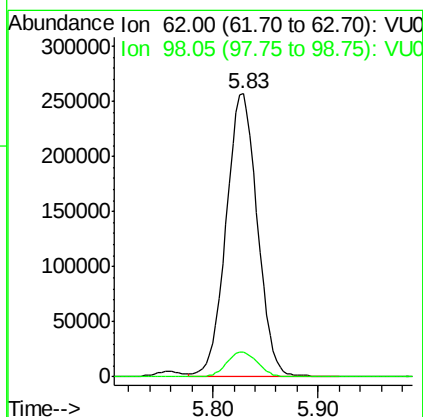
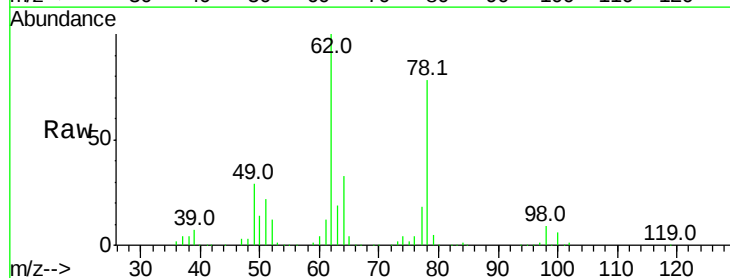
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

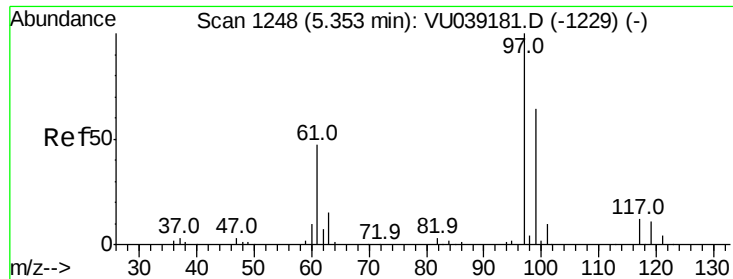
Tgt Ion: 83 Resp: 720735  
Ion Ratio Lower Upper  
83 100  
85 64.4 45.5 84.5



#27  
1,2-Dichloroethane  
Concen: 19.095 ug/L  
RT: 5.83 min Scan# 1396  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Tgt Ion: 62 Resp: 524852  
Ion Ratio Lower Upper  
62 100  
98 8.6 7.3 10.9

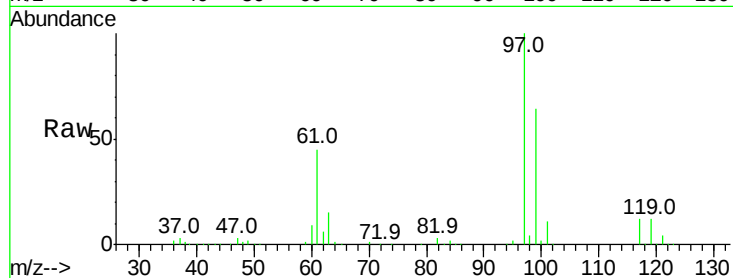




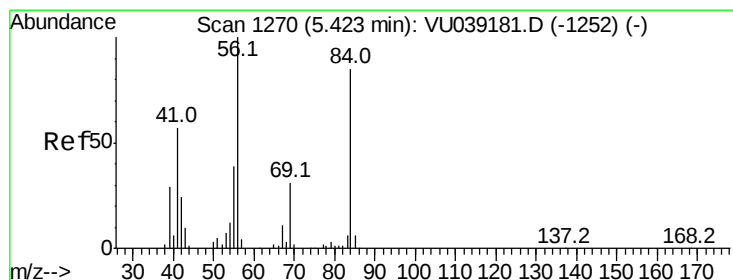
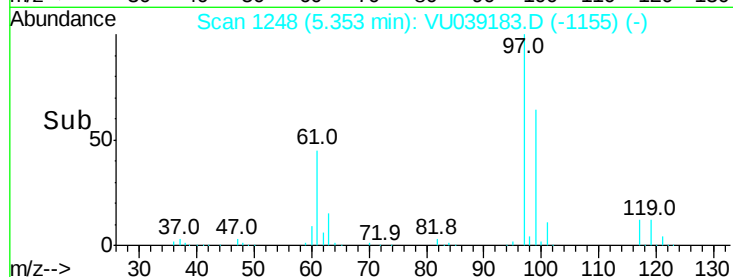
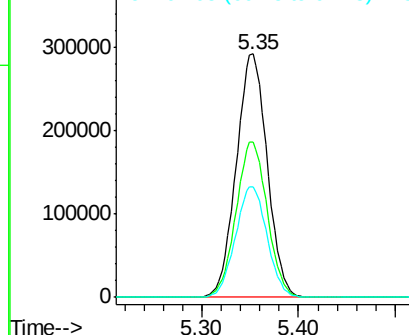
#29  
1,1,1-Trichloroethane  
Concen: 20.403 ug/L  
RT: 5.35 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Tgt Ion: 97 Resp: 650211  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.2 76.8  
61 46.4 37.3 55.9

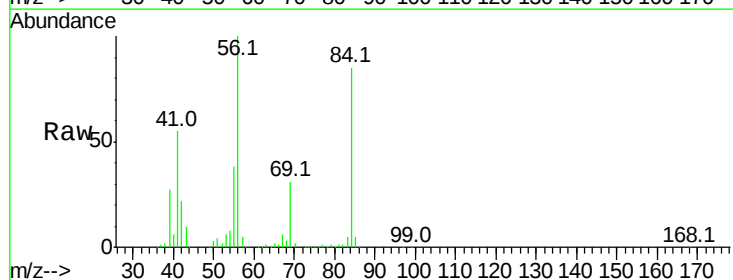


Abundance Ion 96.95 (96.65 to 97.65): VU0  
Ion 99.05 (98.75 to 99.75): VU0  
Ion 61.05 (60.75 to 61.75): VU0

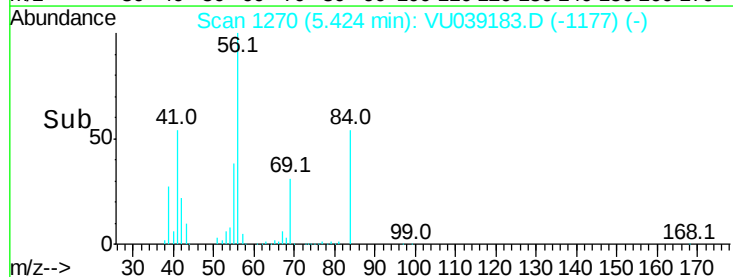
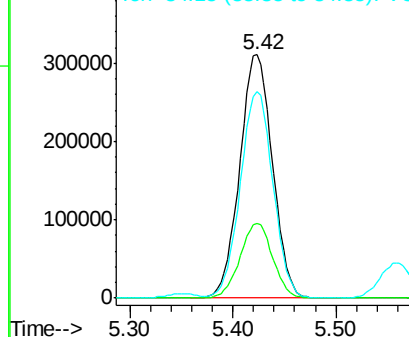


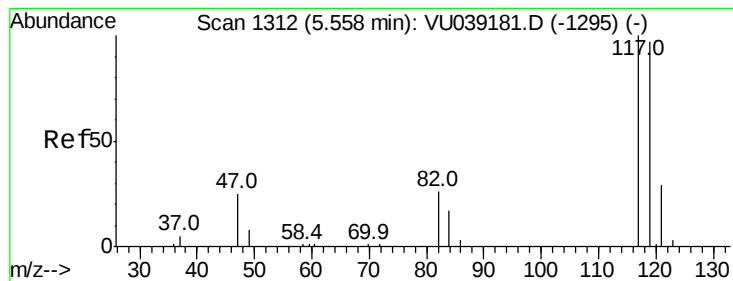
#30  
Cyclohexane  
Concen: 23.169 ug/L  
RT: 5.42 min Scan# 1270  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Tgt Ion: 56 Resp: 686986  
Ion Ratio Lower Upper  
56 100  
69 30.5 25.0 37.4  
84 84.6 69.4 104.2



Abundance Ion 56.10 (55.80 to 56.80): VU0  
Ion 69.15 (68.85 to 69.85): VU0  
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 20.784 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

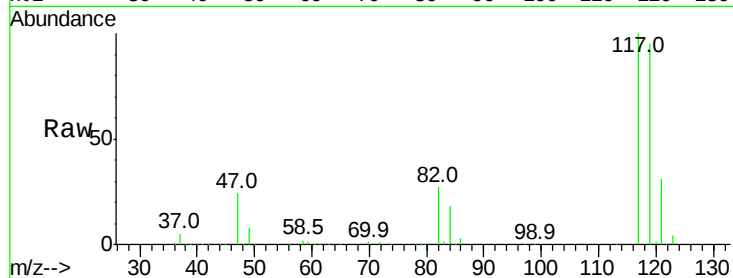
VSTD02006

Tgt Ion:117 Resp: 551539

Ion Ratio Lower Upper

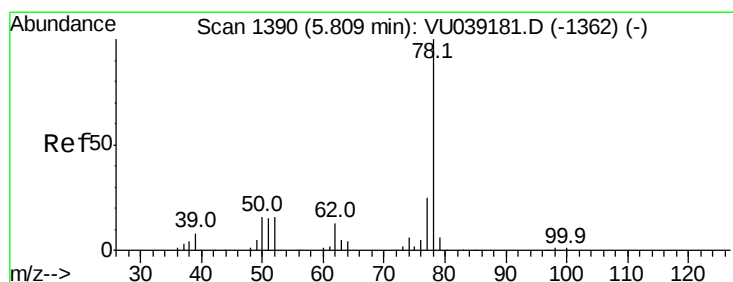
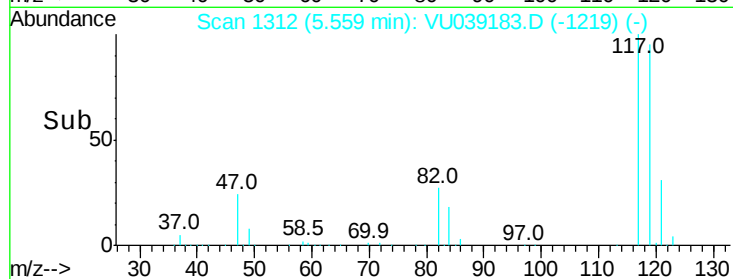
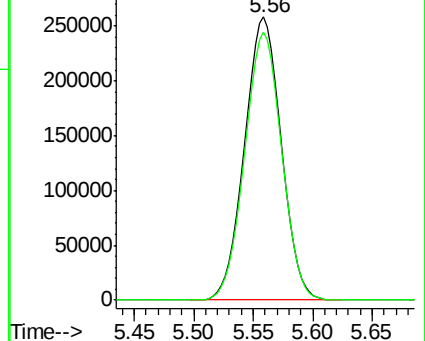
117 100

119 95.4 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 19.747 ug/L

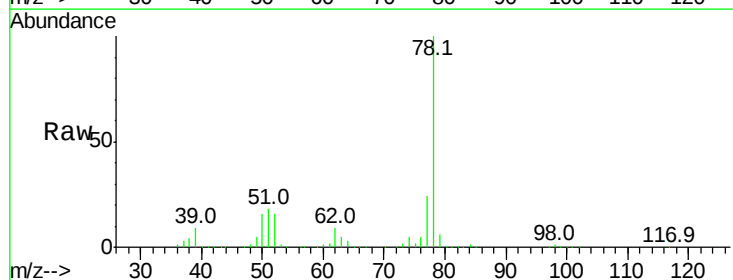
RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

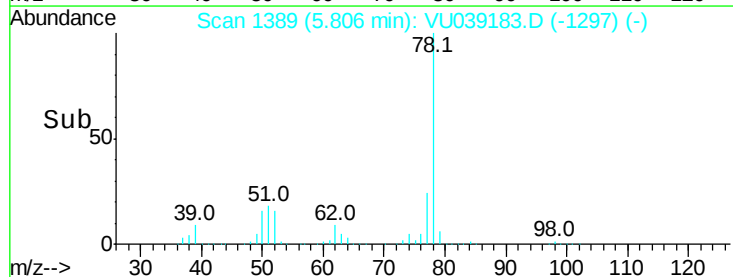
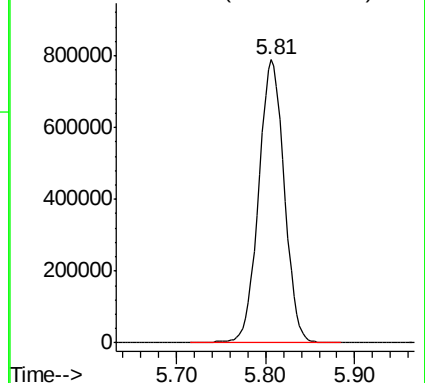
Lab File: VU039183.D

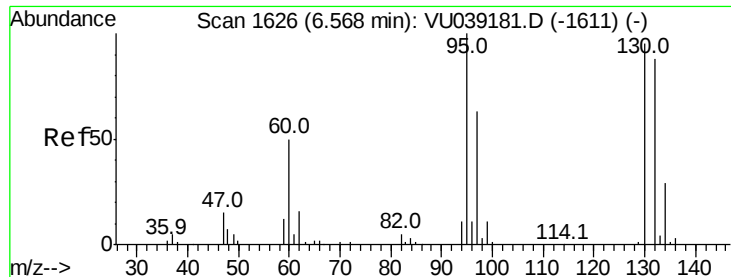
Acq: 29 Jun 2020 11:07

Tgt Ion: 78 Resp: 1584327



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 20.789 ug/L

RT: 6.57 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

Tgt Ion: 95 Resp: 403438

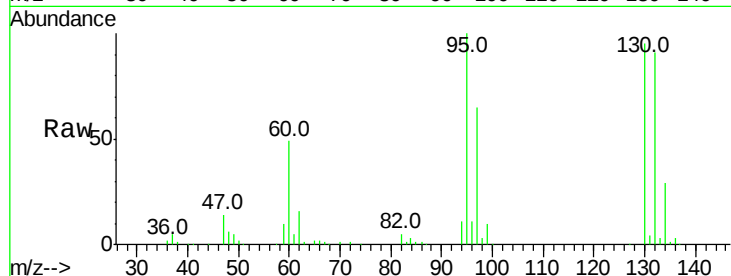
Ion Ratio Lower Upper

95 100

97 64.6 44.0 81.8

132 91.0 61.2 113.8

130 94.8 66.4 123.4



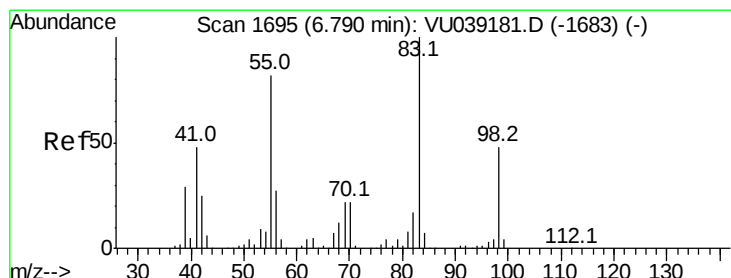
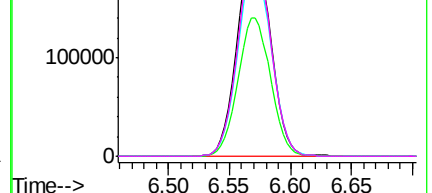
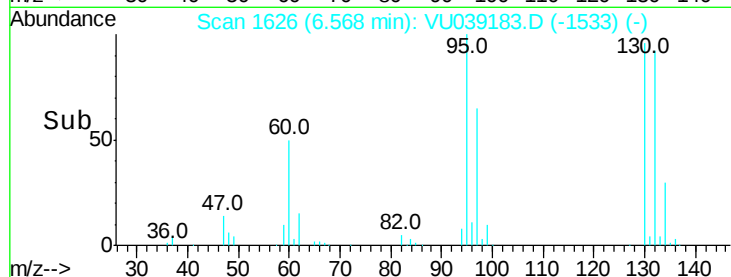
Abundance Ion 95.00 (94.70 to 95.70): VU039183.D (-1626) (-)

Ion 96.95 (96.65 to 97.65): VU039183.D (-1626) (-)

Ion 131.95 (131.65 to 132.65): VU039183.D (-1626) (-)

Ion 129.95 (129.65 to 130.65): VU039183.D (-1626) (-)

Time-->



#35

Methylcyclohexane

Concen: 23.721 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

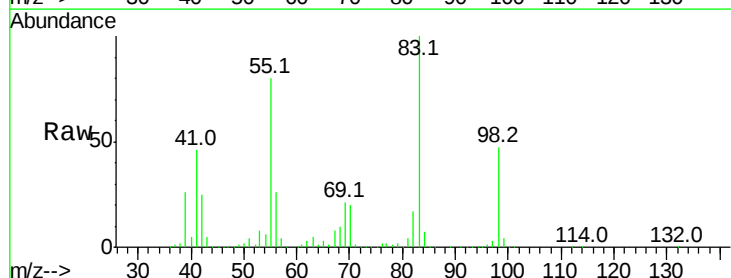
Tgt Ion: 83 Resp: 683070

Ion Ratio Lower Upper

83 100

55 79.8 65.5 98.3

98 47.0 38.2 57.4

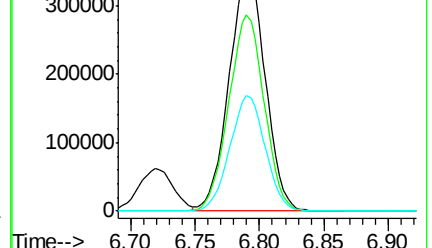
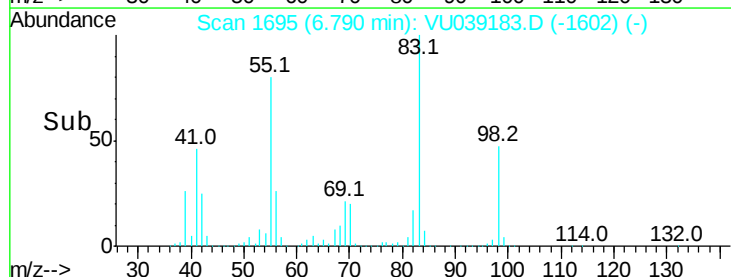


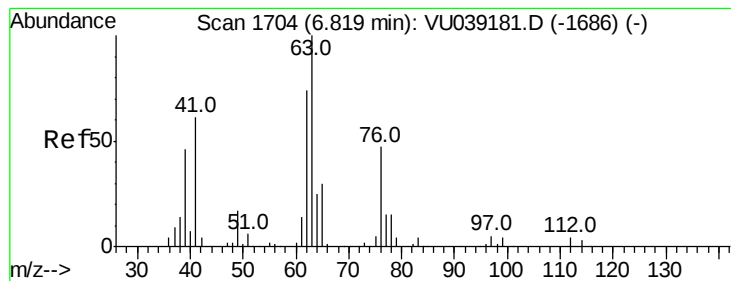
Abundance Ion 83.15 (82.85 to 83.85): VU039183.D (-1695) (-)

Ion 55.10 (54.80 to 55.80): VU039183.D (-1695) (-)

Ion 98.15 (97.85 to 98.85): VU039183.D (-1695) (-)

Time-->





#37

1,2-Dichloropropane

Concen: 18.876 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

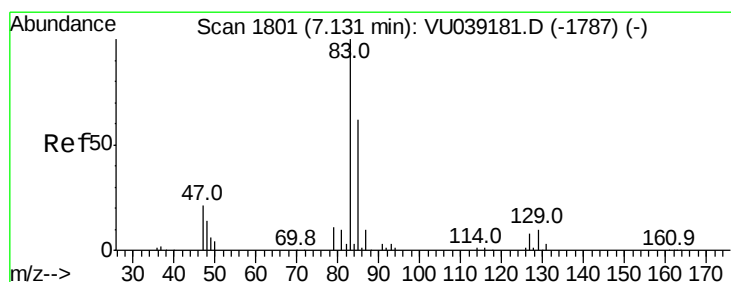
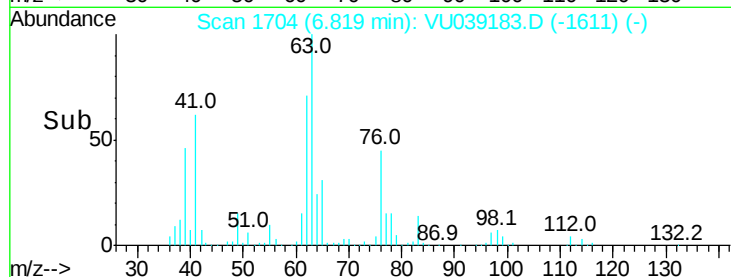
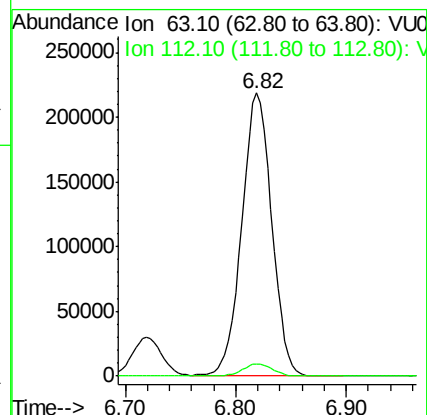
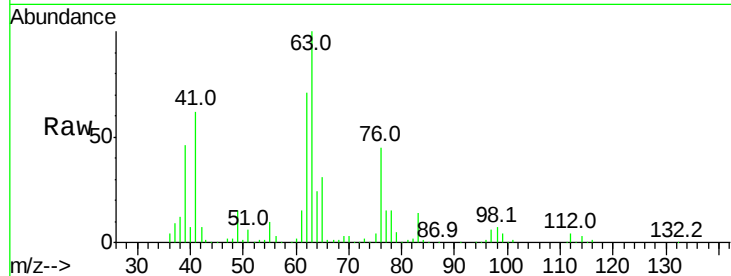
VSTD02006

Tgt Ion: 63 Resp: 410285

Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.2



#38

Bromodichloromethane

Concen: 19.726 ug/L

RT: 7.13 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

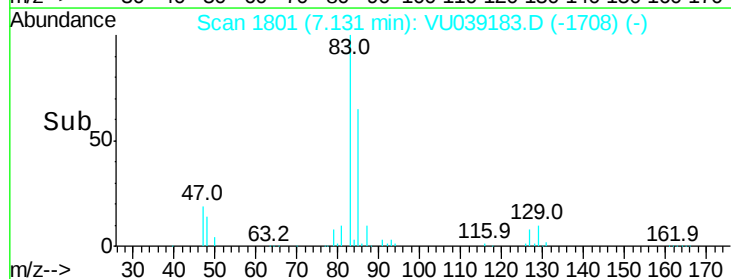
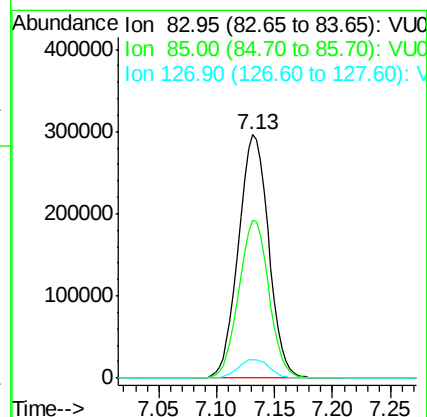
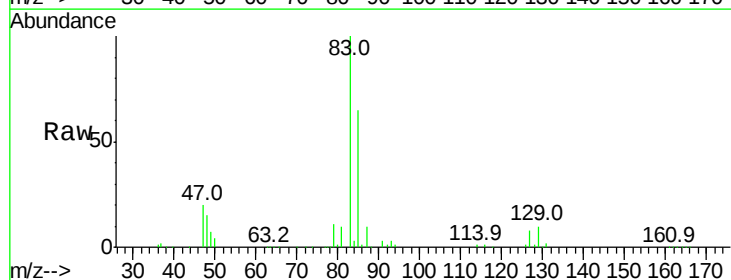
Tgt Ion: 83 Resp: 534579

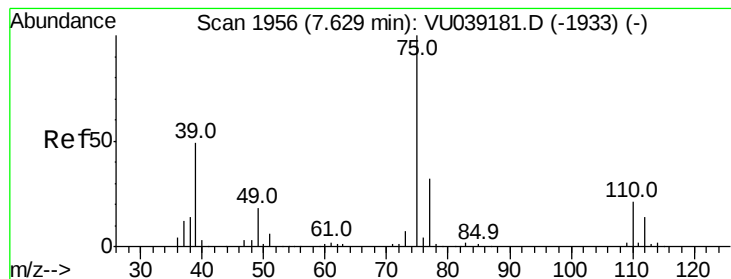
Ion Ratio Lower Upper

83 100

85 64.6 43.4 80.6

127 7.8 6.2 9.2



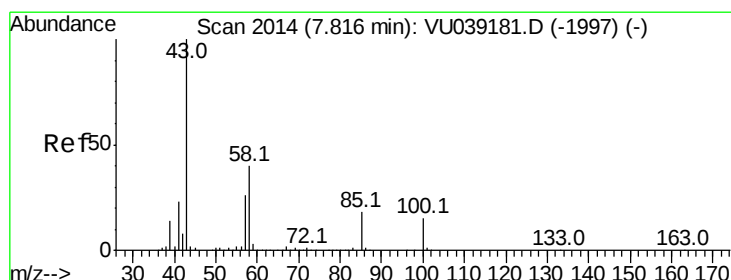
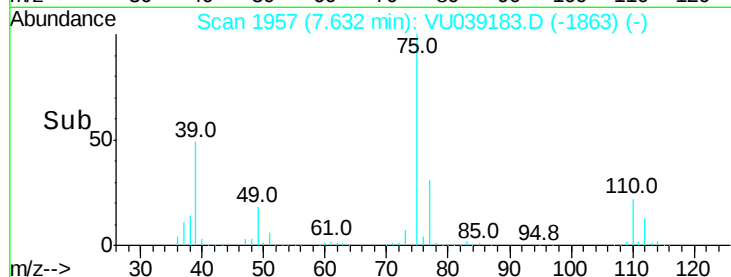
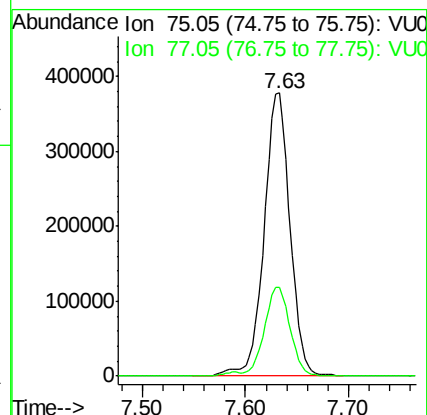
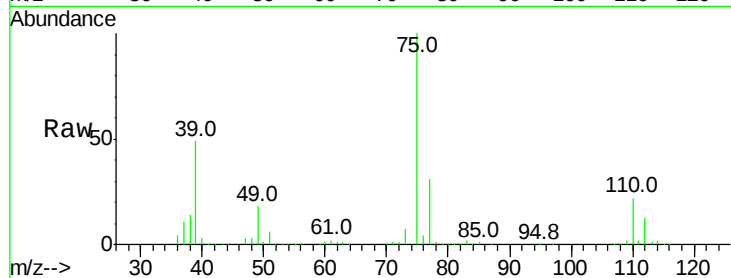


#39

cis-1,3-Dichloropropene  
 Concen: 21.797 ug/L  
 RT: 7.63 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

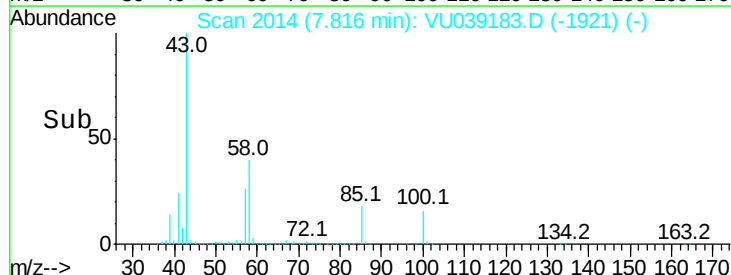
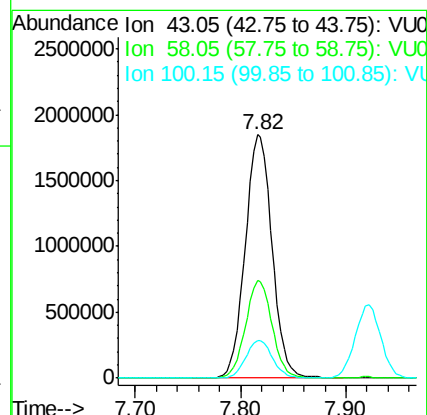
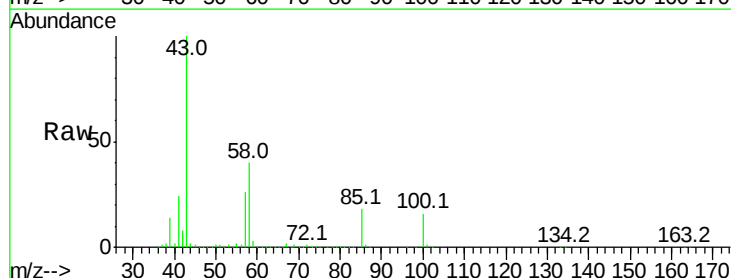
Tgt Ion: 75 Resp: 656694  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 22.7 42.1

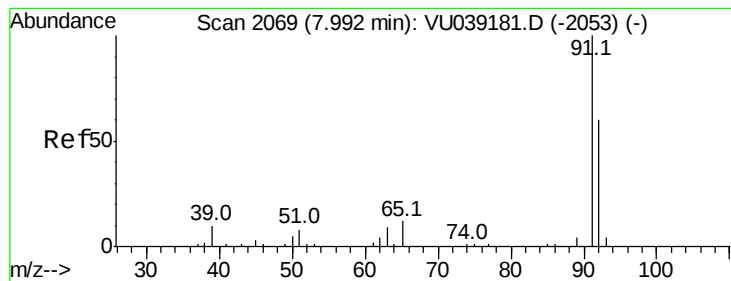


#40

4-Methyl-2-pentanone  
 Concen: 201.161 ug/L  
 RT: 7.82 min Scan# 2014  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Tgt Ion: 43 Resp: 3263536  
 Ion Ratio Lower Upper  
 43 100  
 58 39.6 31.3 46.9  
 100 15.4 12.2 18.4





#42

Toluene

Concen: 21.181 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

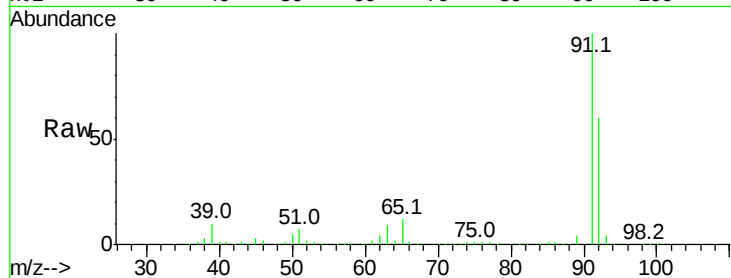
VSTD02006

Tgt Ion: 91 Resp: 1686795

Ion Ratio Lower Upper

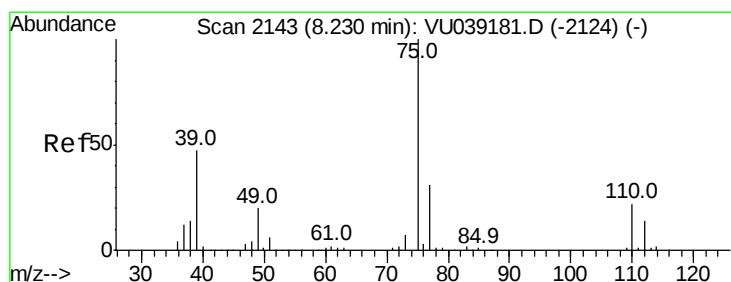
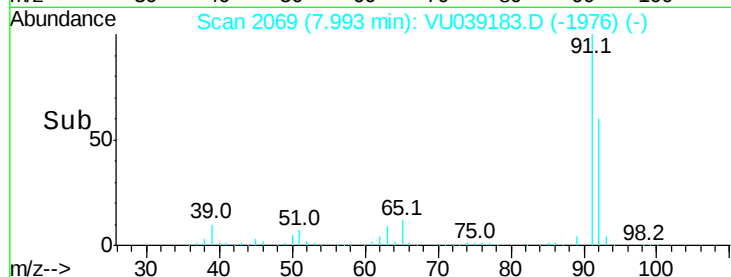
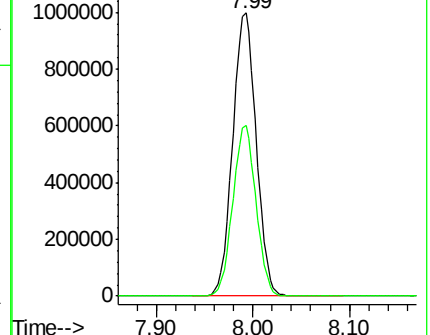
91 100

92 60.3 42.4 78.6



Abundance Ion 91.15 (90.85 to 91.85): VU039181.D (-2053) (-)

Ion 92.15 (91.85 to 92.85): VU039181.D (-2053) (-)



#44

trans-1,3-Dichloropropene

Concen: 25.525 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU039183.D

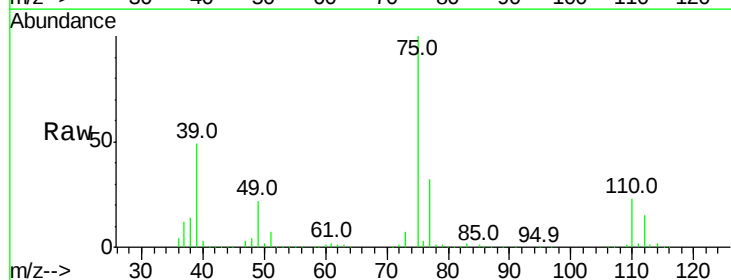
Acq: 29 Jun 2020 11:07

Tgt Ion: 75 Resp: 719570

Ion Ratio Lower Upper

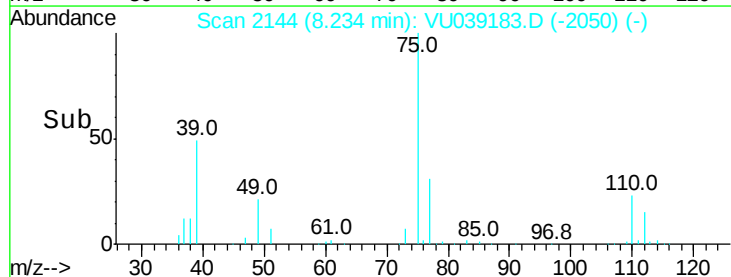
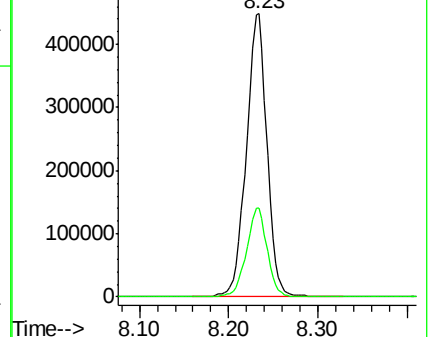
75 100

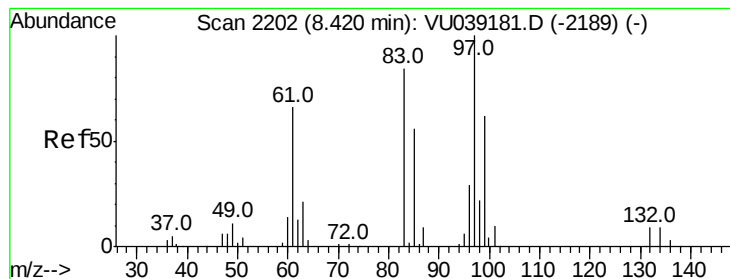
77 31.5 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU039181.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU039181.D (-2124) (-)





#45

1,1,2-Trichloroethane

Concen: 19.152 ug/L

RT: 8.42 min Scan# 2202

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

Tgt Ion: 97 Resp: 309402

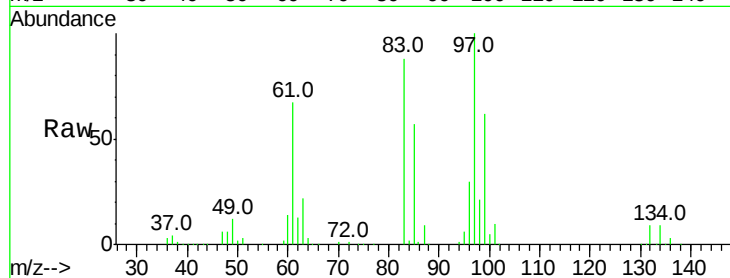
Ion Ratio Lower Upper

97 100

99 62.5 43.5 80.7

83 87.7 59.1 109.9

85 56.7 39.3 73.1

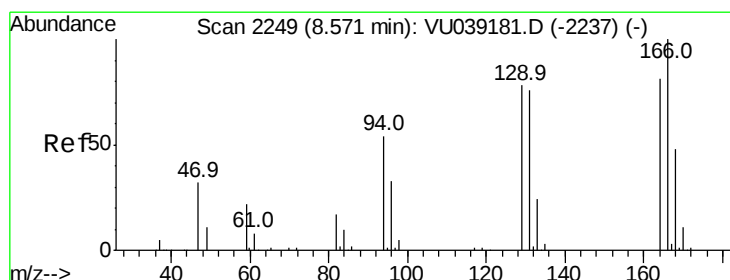
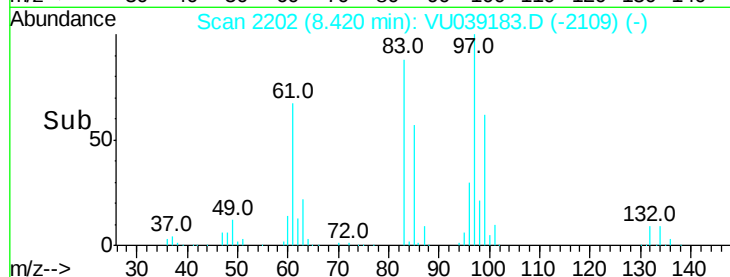
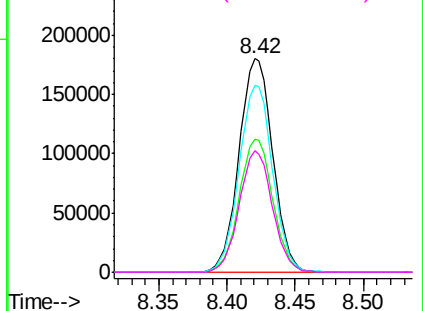


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 21.159 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Tgt Ion:164 Resp: 295951

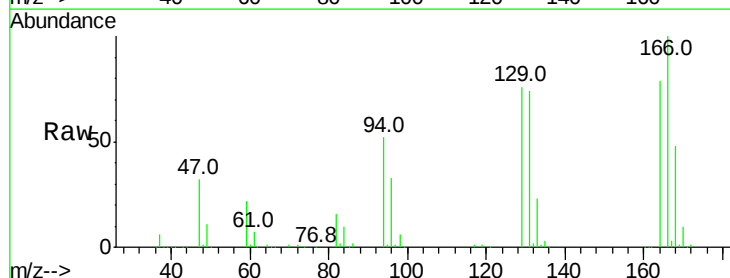
Ion Ratio Lower Upper

164 100

129 96.8 67.6 125.6

131 94.2 66.1 122.7

166 127.1 86.8 161.2

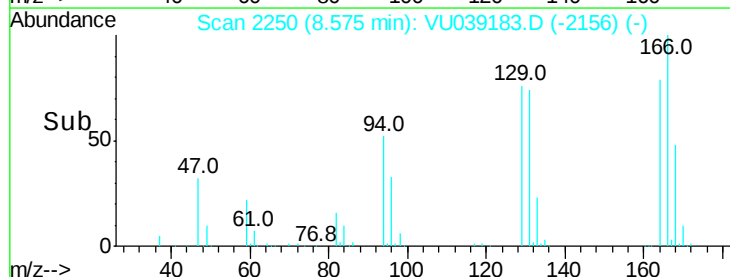
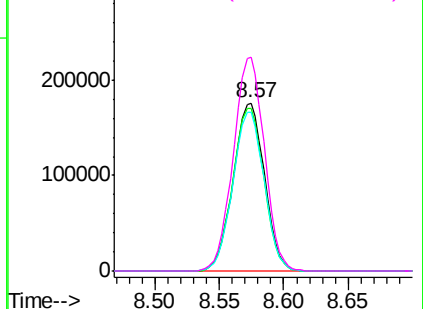


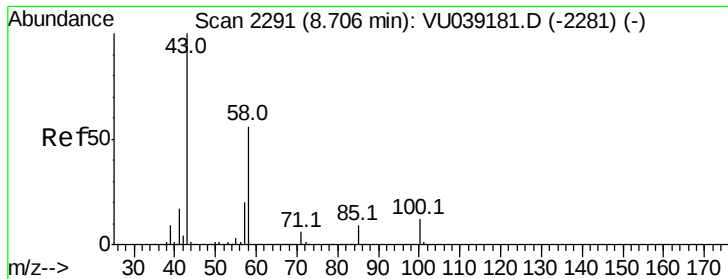
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



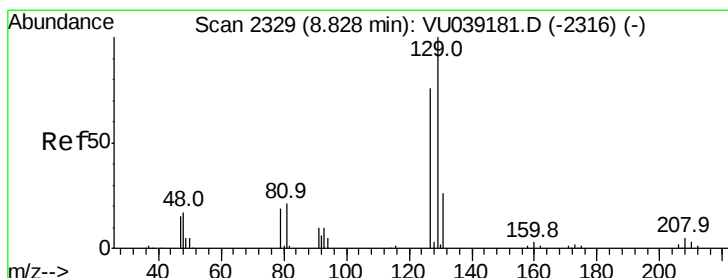
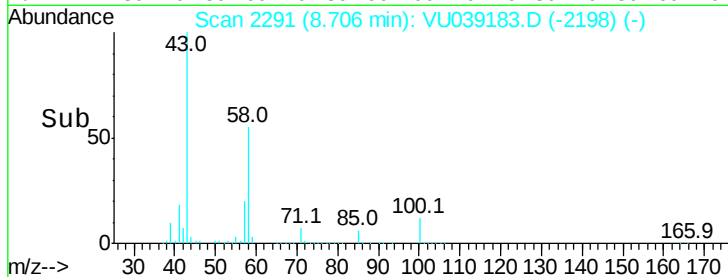
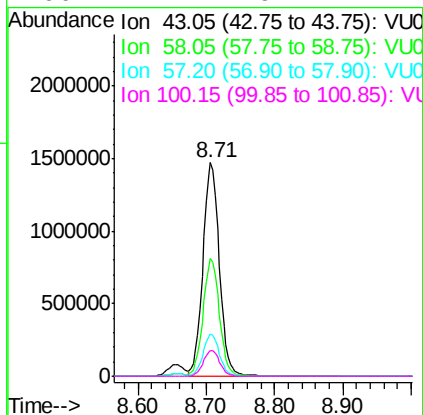
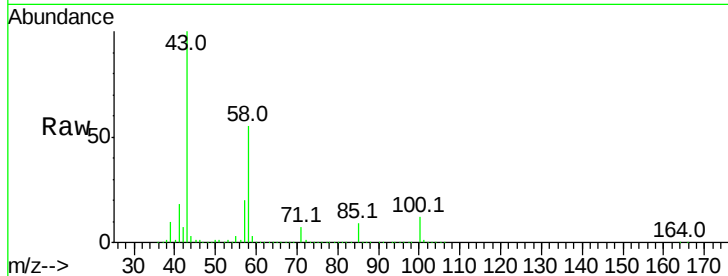


#48  
2-Hexanone  
Concen: 206.767 ug/L  
RT: 8.71 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Tgt Ion: 43 Resp: 2459163

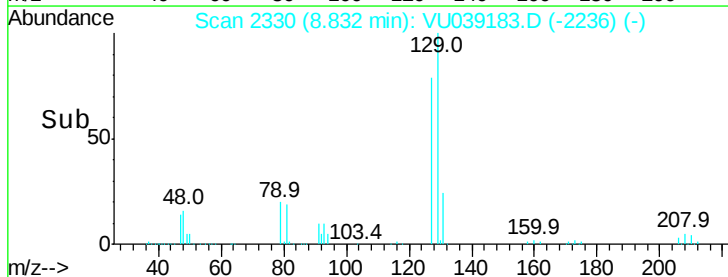
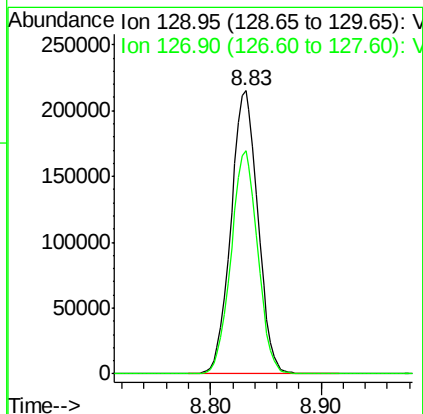
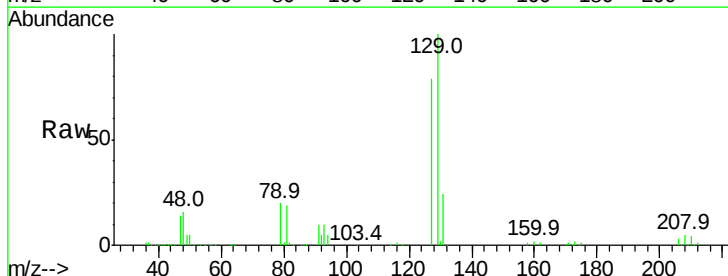
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 55.2  | 43.6  | 65.4  |
| 57  | 19.6  | 15.6  | 23.4  |
| 100 | 12.1  | 9.4   | 14.2  |

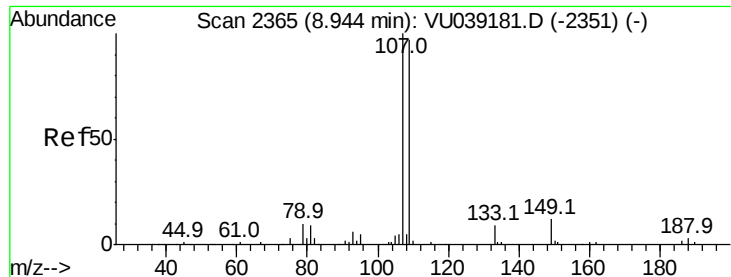


#49  
Dibromochloromethane  
Concen: 20.790 ug/L  
RT: 8.83 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Tgt Ion: 129 Resp: 365212

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 79.0  | 53.5  | 99.3  |

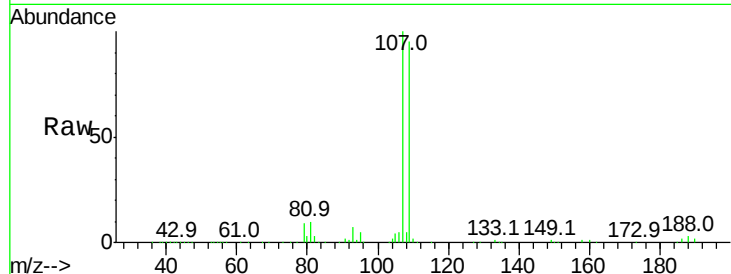




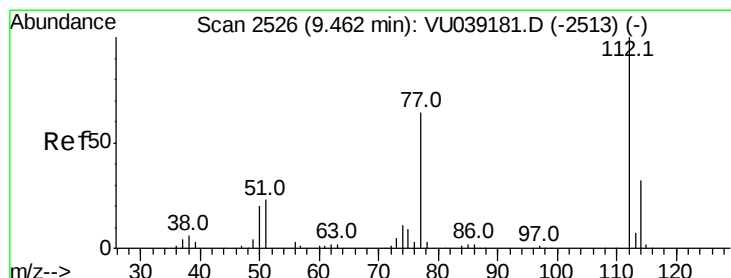
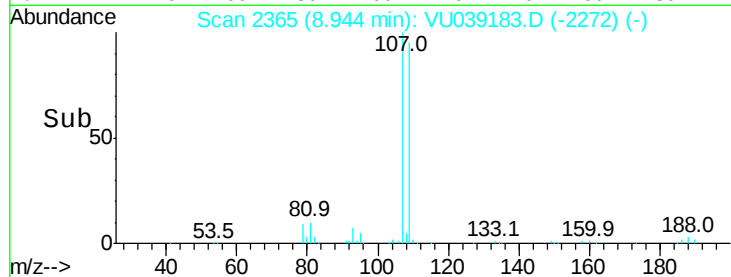
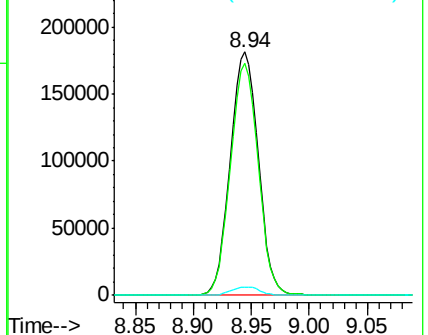
#50  
1,2-Dibromoethane  
Concen: 19.834 ug/L  
RT: 8.94 min Scan# 2365  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Tgt Ion:107 Resp: 302939  
Ion Ratio Lower Upper  
107 100  
109 95.1 67.7 125.7  
188 3.4 2.5 3.7

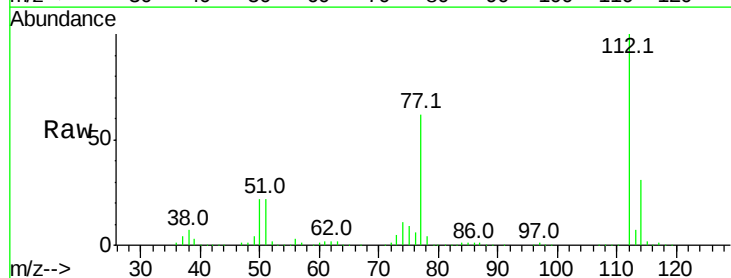


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

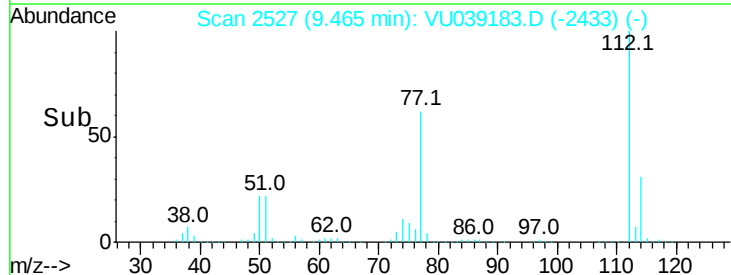
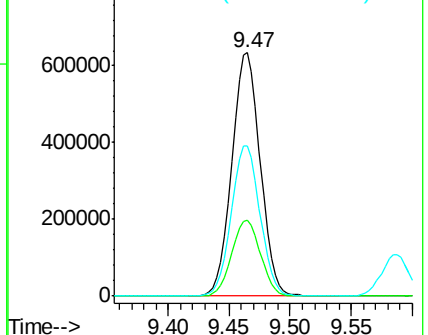


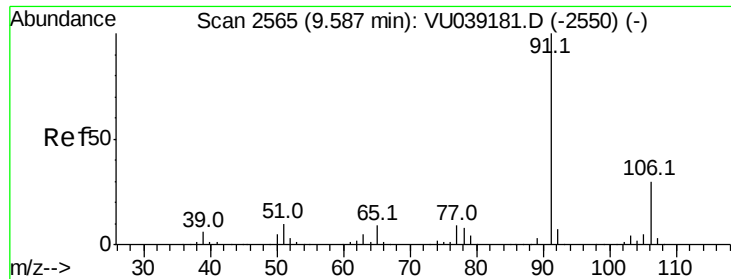
#51  
Chlorobenzene  
Concen: 20.509 ug/L  
RT: 9.47 min Scan# 2527  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Tgt Ion:112 Resp: 1028180  
Ion Ratio Lower Upper  
112 100  
114 31.1 22.6 42.0  
77 61.9 51.1 76.7



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 22.620 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

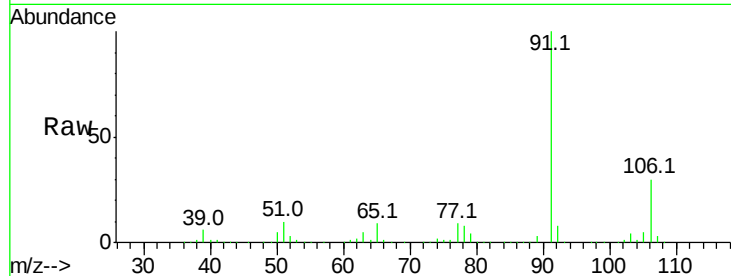
VSTD02006

Tgt Ion: 91 Resp: 1893477

Ion Ratio Lower Upper

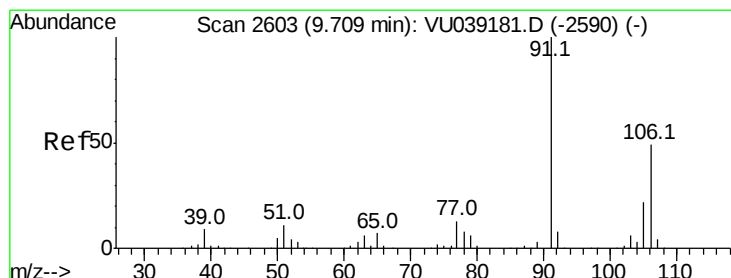
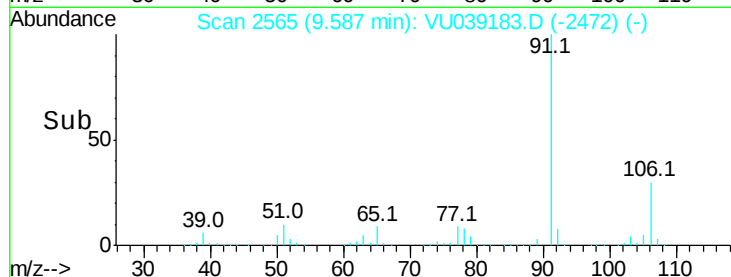
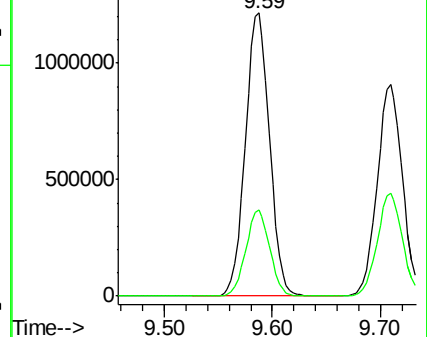
91 100

106 30.4 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VU039183.D (-2550) (-)

Ion 106.15 (105.85 to 106.85): VU039183.D (-2550) (-)



#53

m,p-Xylene

Concen: 23.058 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU039183.D

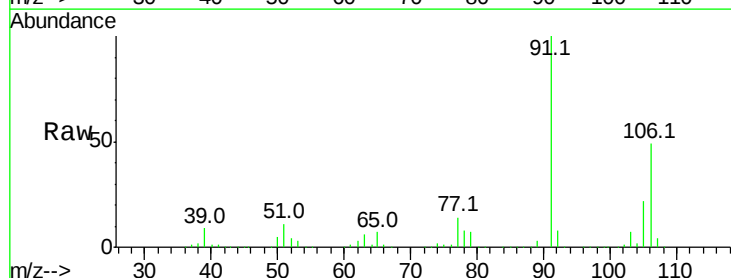
Acq: 29 Jun 2020 11:07

Tgt Ion: 106 Resp: 709727

Ion Ratio Lower Upper

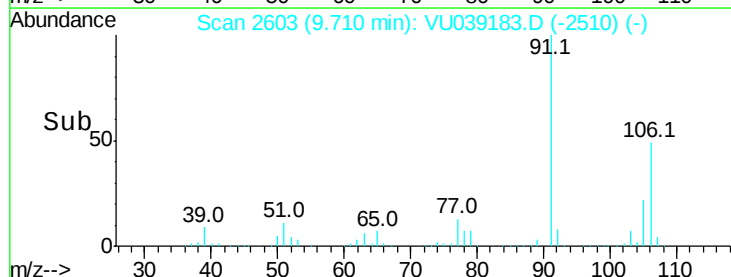
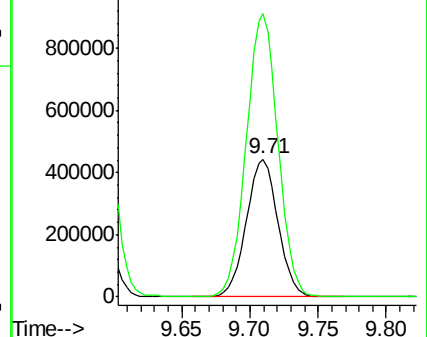
106 100

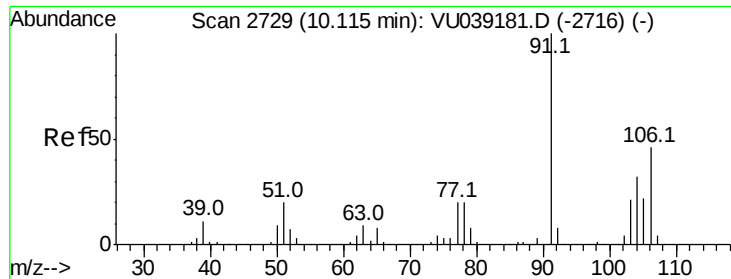
91 205.6 143.7 266.9



Abundance Ion 106.15 (105.85 to 106.85): VU039183.D (-2590) (-)

Ion 91.15 (90.85 to 91.85): VU039183.D (-2590) (-)

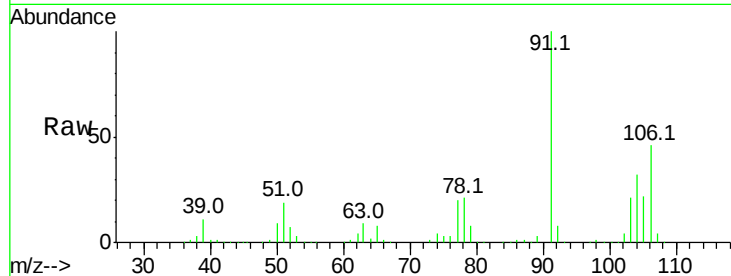




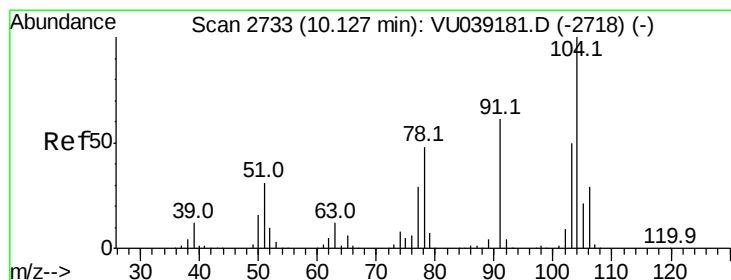
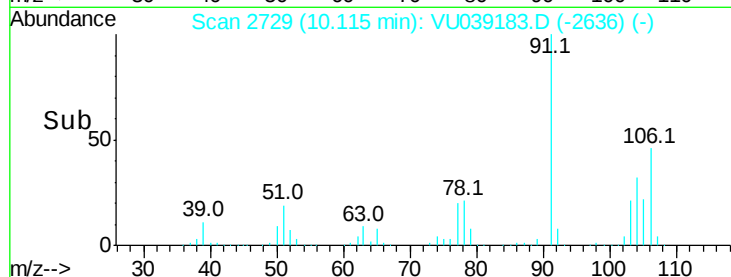
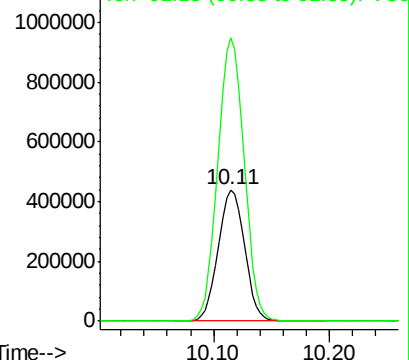
#54  
o-Xylene  
Concen: 23.286 ug/L  
RT: 10.11 min Scan# 2729  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD02006

Tgt Ion:106 Resp: 688547  
Ion Ratio Lower Upper  
106 100  
91 215.1 153.2 284.6

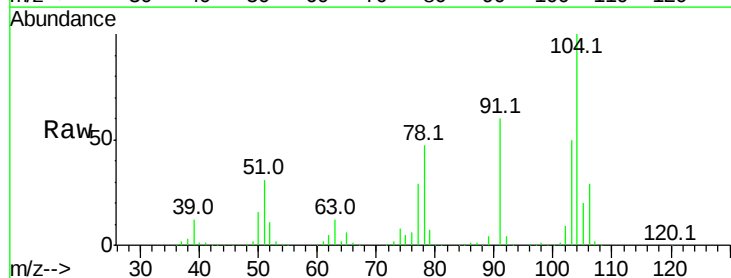


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

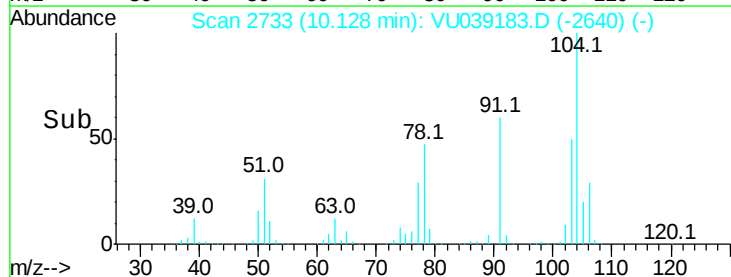
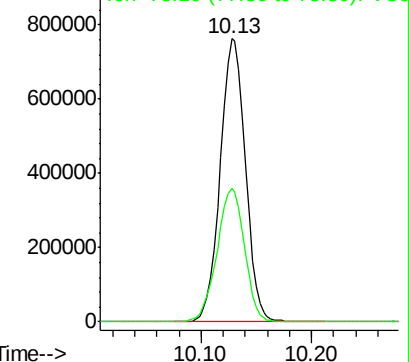


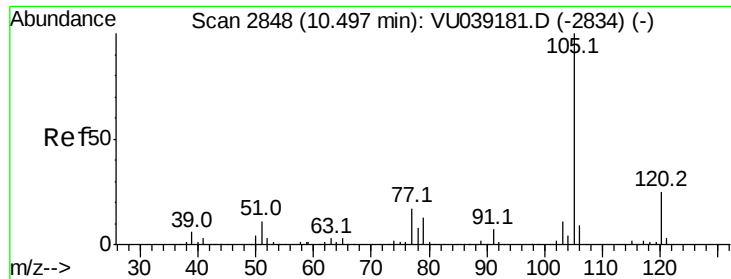
#55  
Styrene  
Concen: 23.272 ug/L  
RT: 10.13 min Scan# 2733  
Delta R.T. 0.00 min  
Lab File: VU039183.D  
Acq: 29 Jun 2020 11:07

Tgt Ion:104 Resp: 1208499  
Ion Ratio Lower Upper  
104 100  
78 47.4 33.5 62.1



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 23.724 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

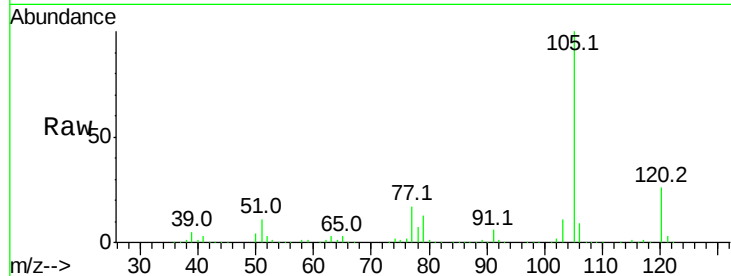
Tgt Ion:105 Resp: 1838110

Ion Ratio Lower Upper

105 100

120 25.5 20.1 30.1

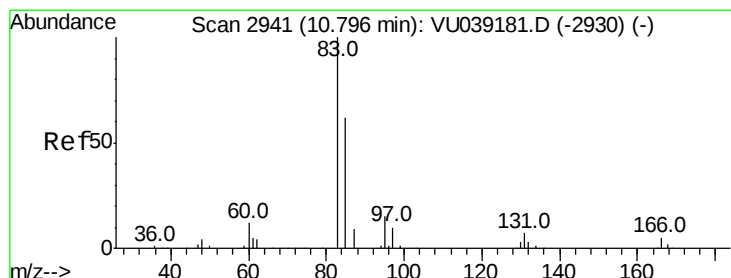
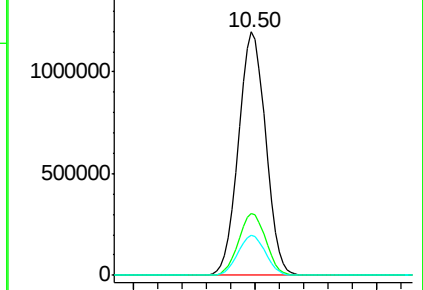
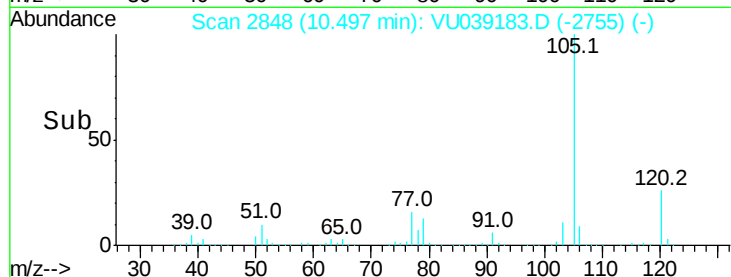
77 16.5 13.4 20.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 18.878 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

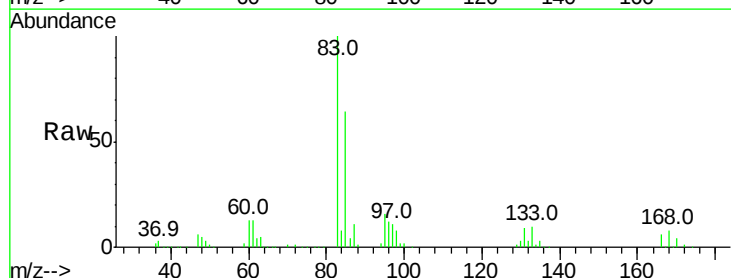
Tgt Ion: 83 Resp: 407782

Ion Ratio Lower Upper

83 100

85 64.0 43.4 80.6

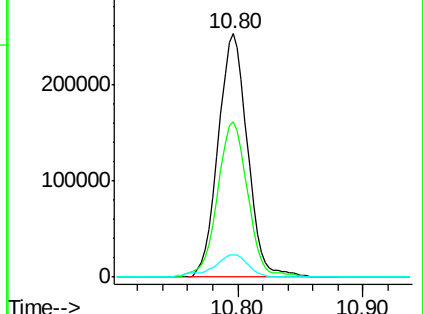
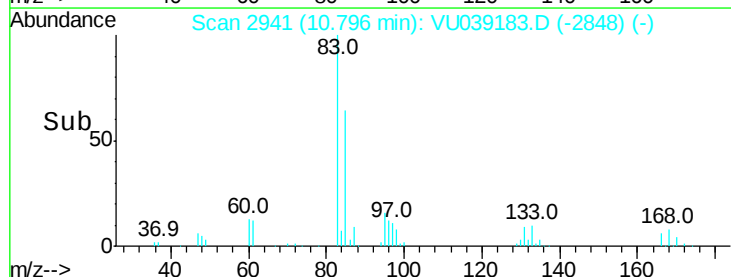
131 9.4 6.5 9.7

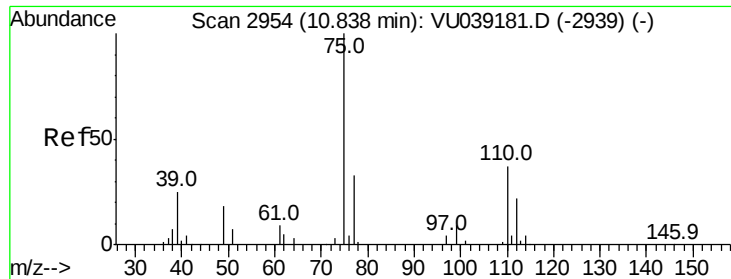


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

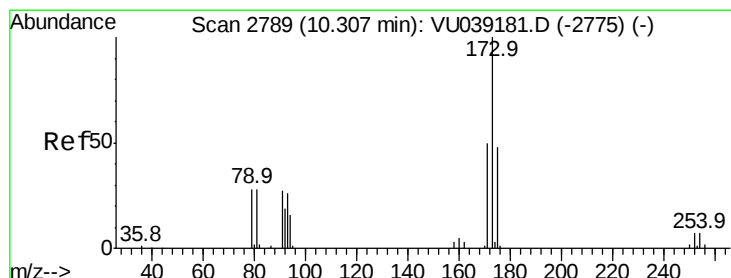
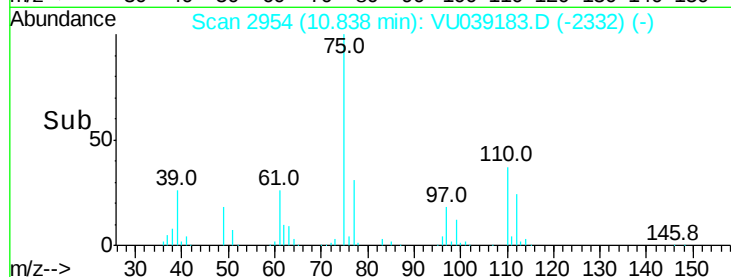
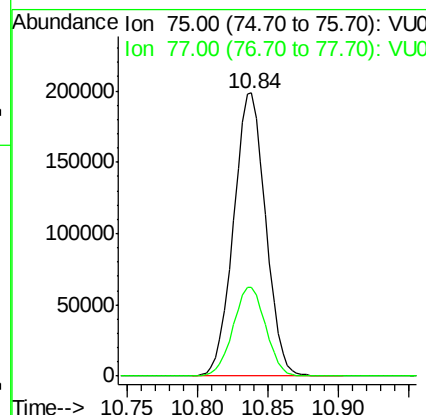
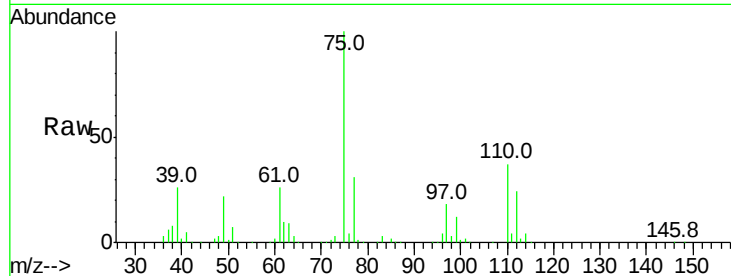




#59  
 1,2,3-Trichloropropane  
 Concen: 19.279 ug/L  
 RT: 10.84 min Scan# 2954  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

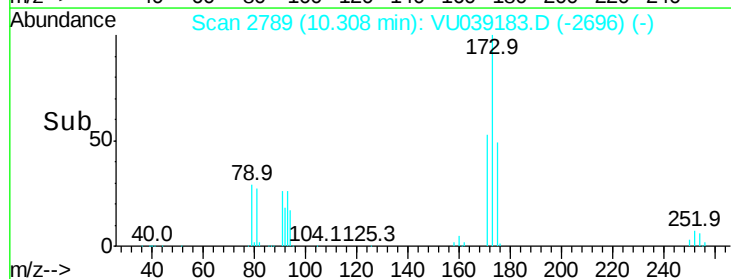
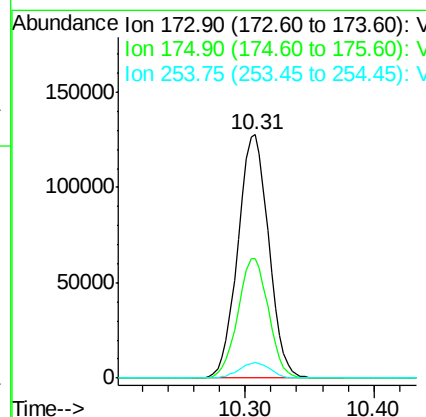
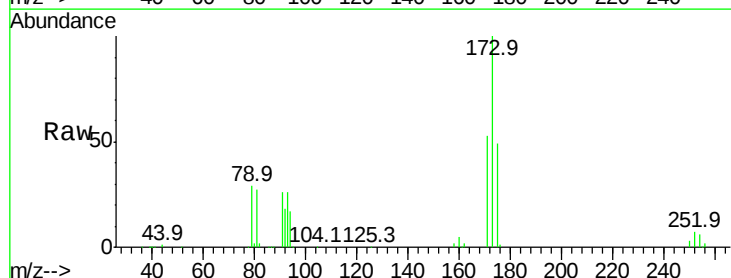
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

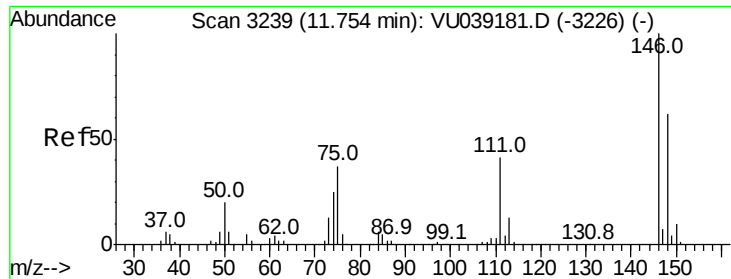
Tgt Ion: 75 Resp: 315936  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 25.6 38.4



#61  
 Bromoform  
 Concen: 20.107 ug/L  
 RT: 10.31 min Scan# 2789  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Tgt Ion: 173 Resp: 212527  
 Ion Ratio Lower Upper  
 173 100  
 175 48.8 39.3 58.9  
 254 6.4 5.5 8.3

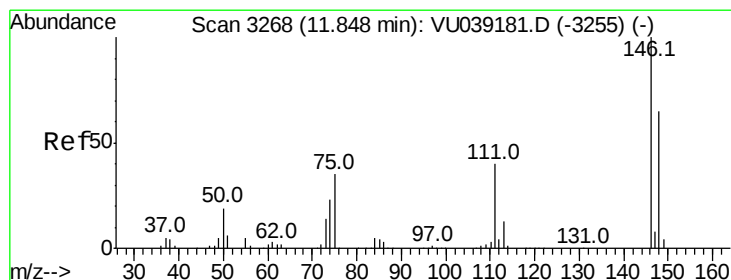
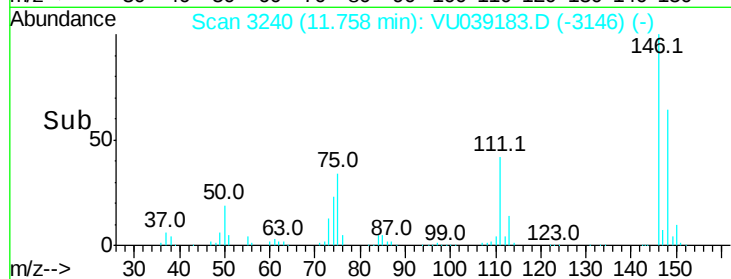
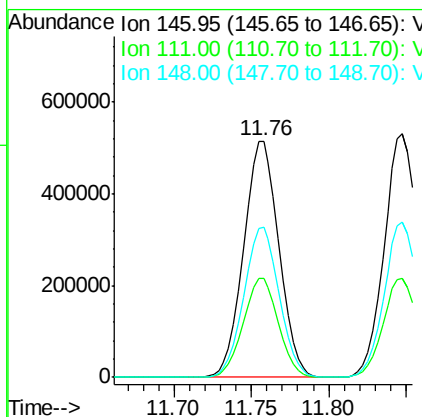
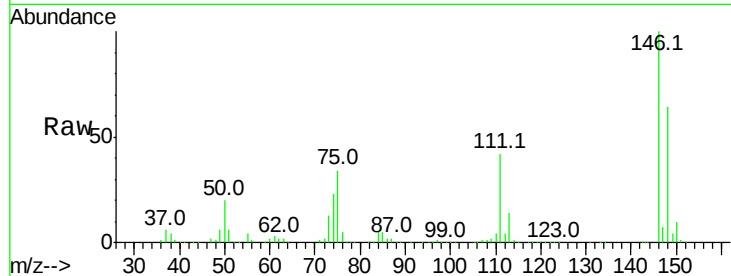




#62  
 1,3-Dichlorobenzene  
 Concen: 21.246 ug/L  
 RT: 11.76 min Scan# 3240  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

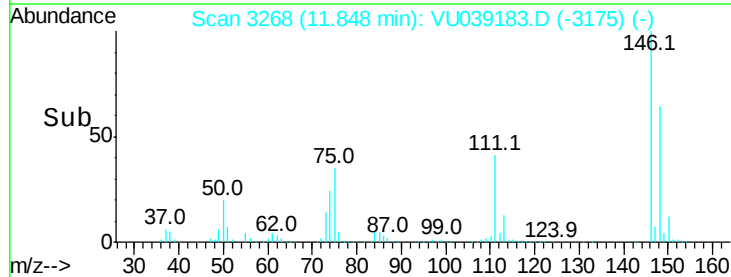
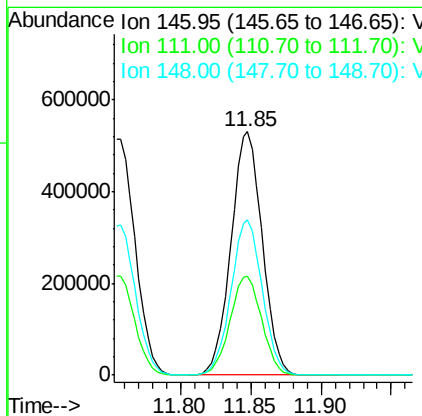
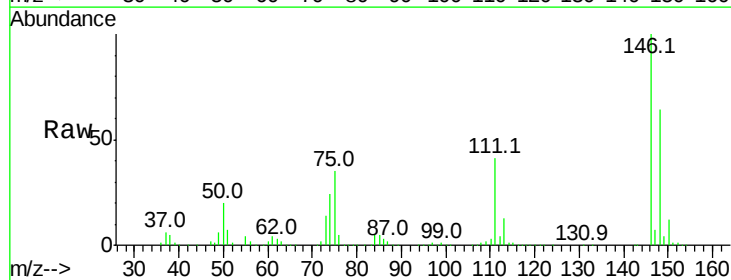
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

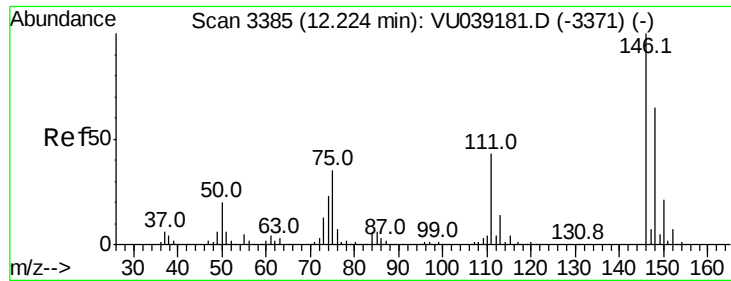
Tgt Ion:146 Resp: 817483  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 29.0 53.8  
 148 63.7 43.2 80.2



#63  
 1,4-Dichlorobenzene  
 Concen: 20.740 ug/L  
 RT: 11.85 min Scan# 3268  
 Delta R.T. 0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Tgt Ion:146 Resp: 821909  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 28.3 52.5  
 148 64.0 45.8 85.2





#65

1,2-Dichlorobenzene

Concen: 20.362 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

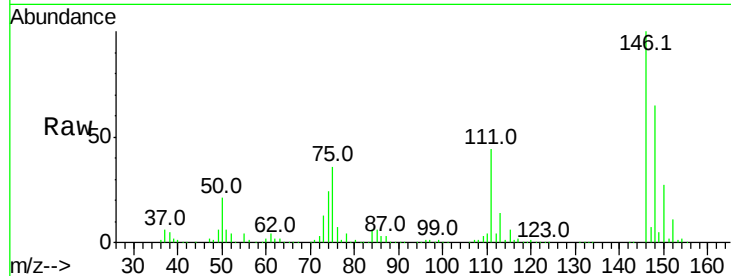
Tgt Ion:146 Resp: 785592

Ion Ratio Lower Upper

146 100

111 43.5 34.7 52.1

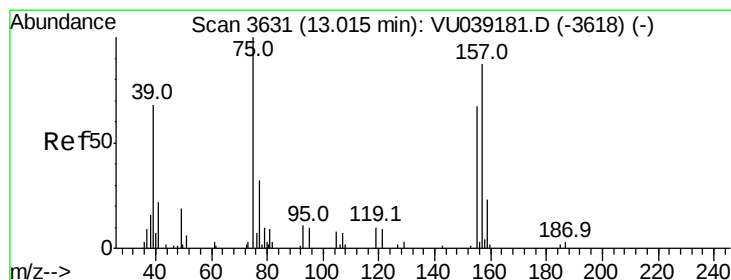
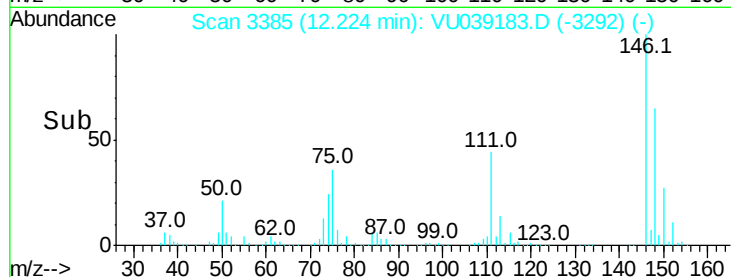
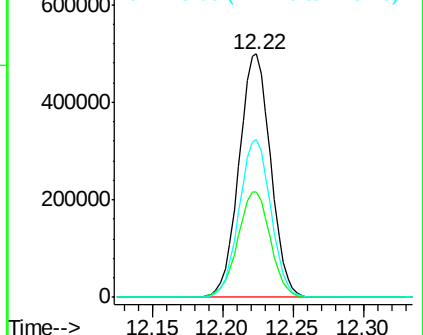
148 64.9 51.8 77.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.329 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

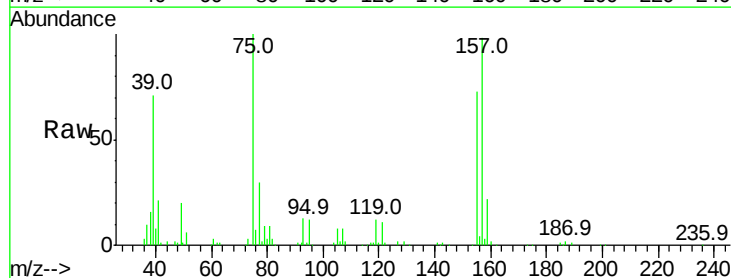
Tgt Ion: 75 Resp: 82262

Ion Ratio Lower Upper

75 100

155 72.6 53.8 80.8

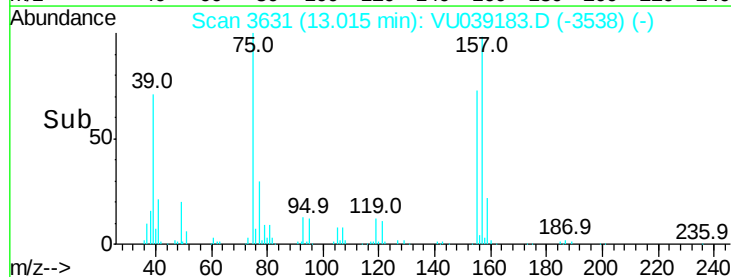
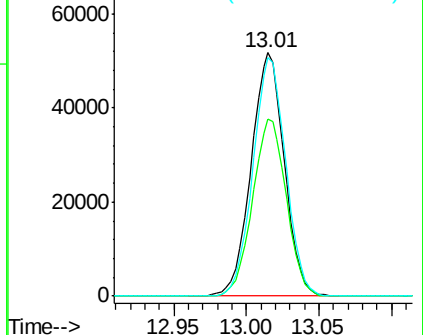
157 97.8 69.4 104.2

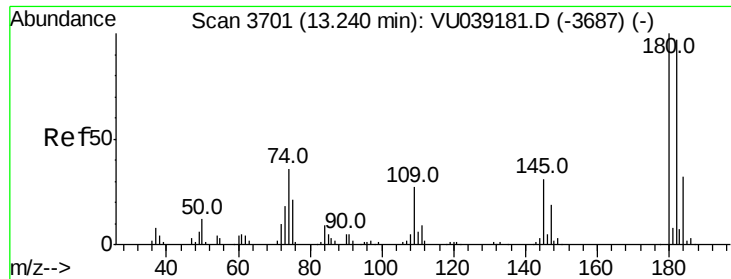


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

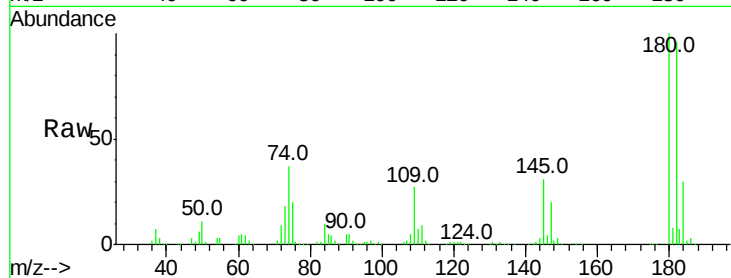




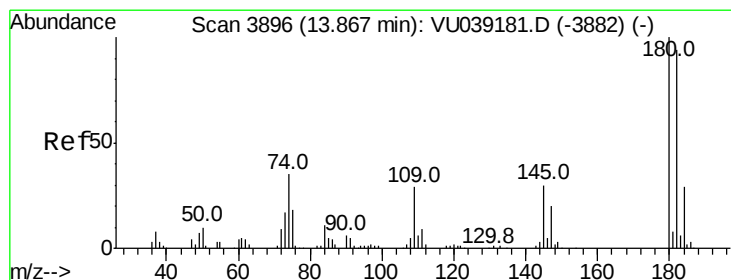
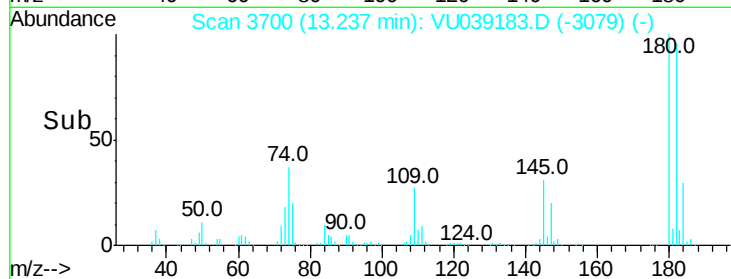
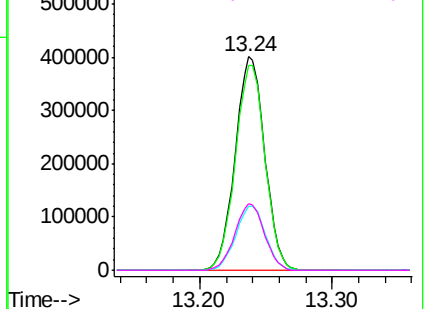
#67  
 1,3,5-Trichlorobenzene  
 Concen: 21.717 ug/L  
 RT: 13.24 min Scan# 3700  
 Delta R.T. -0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02006

Tgt Ion:180 Resp: 618431  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 77.5 116.3  
 184 30.3 25.1 37.7  
 145 31.3 24.4 36.6

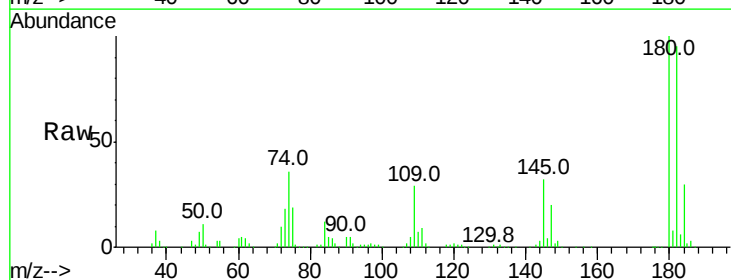


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

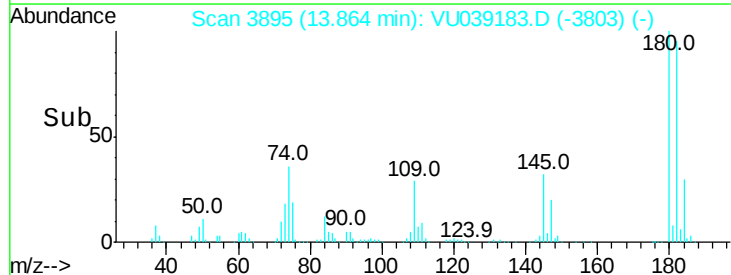
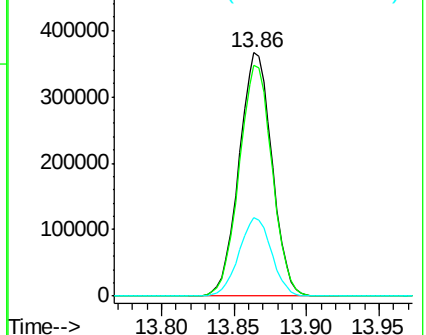


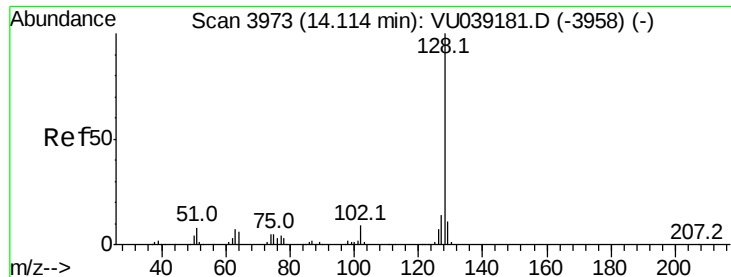
#68  
 1,2,4-trichlorobenzene  
 Concen: 22.235 ug/L  
 RT: 13.86 min Scan# 3895  
 Delta R.T. -0.00 min  
 Lab File: VU039183.D  
 Acq: 29 Jun 2020 11:07

Tgt Ion:180 Resp: 576756  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 75.4 113.0  
 145 32.0 25.3 37.9



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 22.355 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

Instrument :

MSVOA\_U

ClientSampleId :

VSTD02006

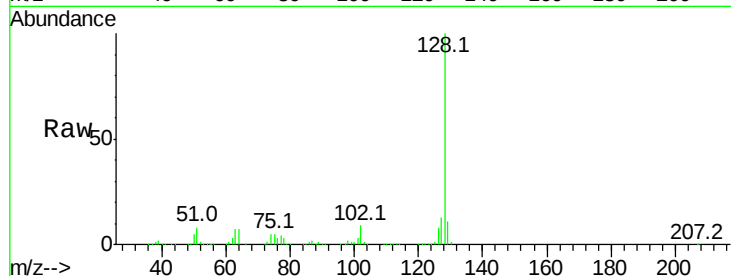
Tgt Ion:128 Resp: 1237067

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

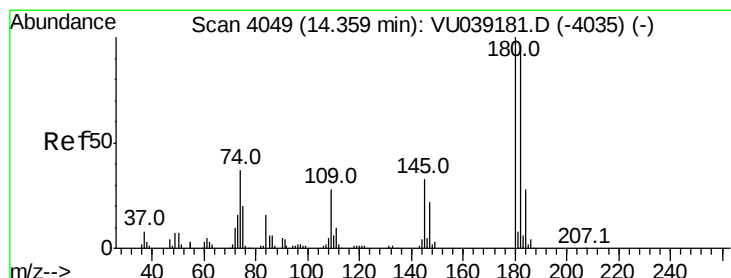
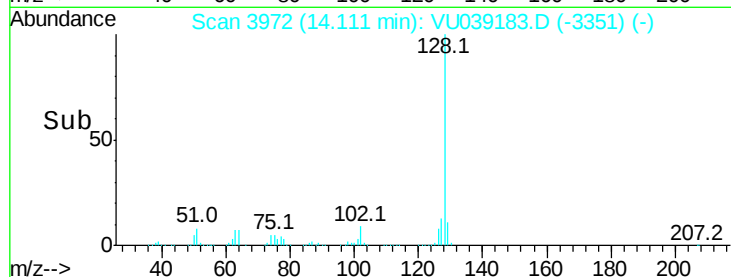
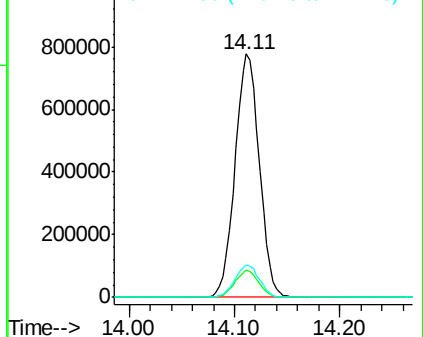
127 13.3 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 21.262 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU039183.D

Acq: 29 Jun 2020 11:07

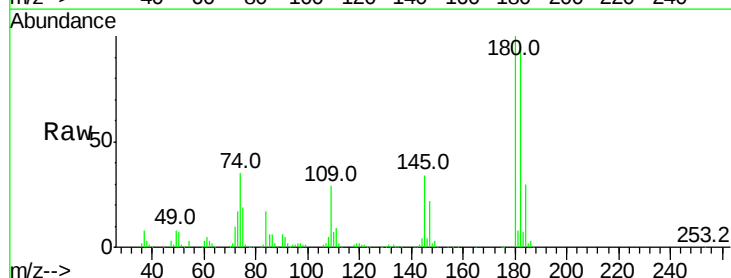
Tgt Ion:180 Resp: 532323

Ion Ratio Lower Upper

180 100

182 95.4 76.8 115.2

145 34.5 26.4 39.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

