

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022323\  
 Data File : VD075413.D  
 Acq On : 23 Feb 2023 14:27  
 Operator : KP/SY  
 Sample : VSTD00506  
 Misc : 5.00G/10.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD005106

Quant Time: Feb 23 23:39:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM022323SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Thu Feb 23 23:38:15 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Difluorobenzene        | 8.775  | 114  | 88174    | 25.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.587 | 117  | 77122    | 25.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.522 | 152  | 38324    | 25.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 4) Vinyl Chloride-d3          | 2.270  | 65   | 9609     | 5.501  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 2.799  | 69   | 8218     | 5.563  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 3.922  | 63   | 14032    | 5.381  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 6.981  | 46   | 2206     | 8.468  | ug/L   | 0.00     |
| 24) Chloroform-d              | 7.569  | 84   | 13533    | 5.324  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 8.240  | 65   | 7020     | 5.583  | ug/L   | 0.01     |
| 32) Benzene-d6                | 8.205  | 84   | 26701    | 5.546  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67   | 8130     | 5.681  | ug/L   | 0.00     |
| 41) Toluene-d8                | 10.269 | 98   | 23768    | 5.460  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79   | 3153     | 5.471  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 10.875 | 63   | 2053     | 10.899 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 12.657 | 84   | 5748     | 5.683  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152  | 7637     | 5.645  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.934  | 85   | 8809     | 5.209  | ug/L   | 96       |
| 3) Chloromethane              | 2.146  | 50   | 11451    | 5.666  | ug/L   | 95       |
| 5) Vinyl chloride             | 2.281  | 62   | 11588    | 5.158  | ug/L   | 95       |
| 6) Bromomethane               | 2.693  | 94   | 5943     | 5.314  | ug/L   | 92       |
| 8) Chloroethane               | 2.834  | 64   | 7394     | 5.402  | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 3.175  | 101  | 13632    | 5.364  | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.969  | 101  | 7596     | 4.978  | ug/L # | 83       |
| 12) 1,1-Dichloroethene        | 3.940  | 96   | 6411     | 4.881  | ug/L   | 86       |
| 13) Acetone                   | 4.028  | 43   | 3817     | 10.810 | ug/L   | 65       |
| 14) Carbon disulfide          | 4.269  | 76   | 23290    | 5.500  | ug/L   | 96       |
| 15) Methyl Acetate            | 4.569  | 43   | 2674     | 4.930  | ug/L # | 77       |
| 16) Methylene chloride        | 4.805  | 84   | 11267    | 6.390  | ug/L   | 89       |
| 17) trans-1,2-Dichloroethene  | 5.311  | 96   | 4793     | 3.540  | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 5.322  | 73   | 12973    | 4.697  | ug/L # | 80       |
| 19) 1,1-Dichloroethane        | 6.111  | 63   | 13050    | 5.005  | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 7.087  | 96   | 7300     | 5.052  | ug/L   | 95       |
| 22) 2-Butanone                | 7.087  | 43   | 2366     | 5.758  | ug/L   | 79       |
| 23) Bromochloromethane        | 7.422  | 128  | 3542     | 5.538  | ug/L   | 85       |
| 25) Chloroform                | 7.593  | 83   | 13411    | 5.013  | ug/L   | 90       |
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 8205     | 4.879  | ug/L # | 94       |
| 29) Cyclohexane               | 7.881  | 56   | 10608    | 5.023  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 7.793  | 97   | 12067    | 5.145  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 10231    | 5.080  | ug/L   | 96       |
| 33) Benzene                   | 8.257  | 78   | 27878    | 5.044  | ug/L   | 100      |
| 34) Trichloroethene           | 9.034  | 95   | 7775     | 5.291  | ug/L   | 93       |
| 35) Methylcyclohexane         | 9.275  | 83   | 11791    | 5.008  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 9.310  | 63   | 7014     | 4.868  | ug/L # | 92       |
| 38) Bromodichloromethane      | 9.581  | 83   | 9772     | 5.243  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 9840     | 4.706  | ug/L # | 76       |
| 40) 4-Methyl-2-pentanone      | 10.163 | 43   | 7419     | 9.583  | ug/L   | 97       |
| 42) Toluene                   | 10.334 | 91   | 28924    | 4.939  | ug/L   | 93       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 8320     | 4.783  | ug/L   | 97       |

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 Sample : VSTD00506  
 Misc : 5.00G/10.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD005106

Quant Time: Feb 23 23:39:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM022323SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Thu Feb 23 23:38:15 2023  
 Response via : Initial Calibration

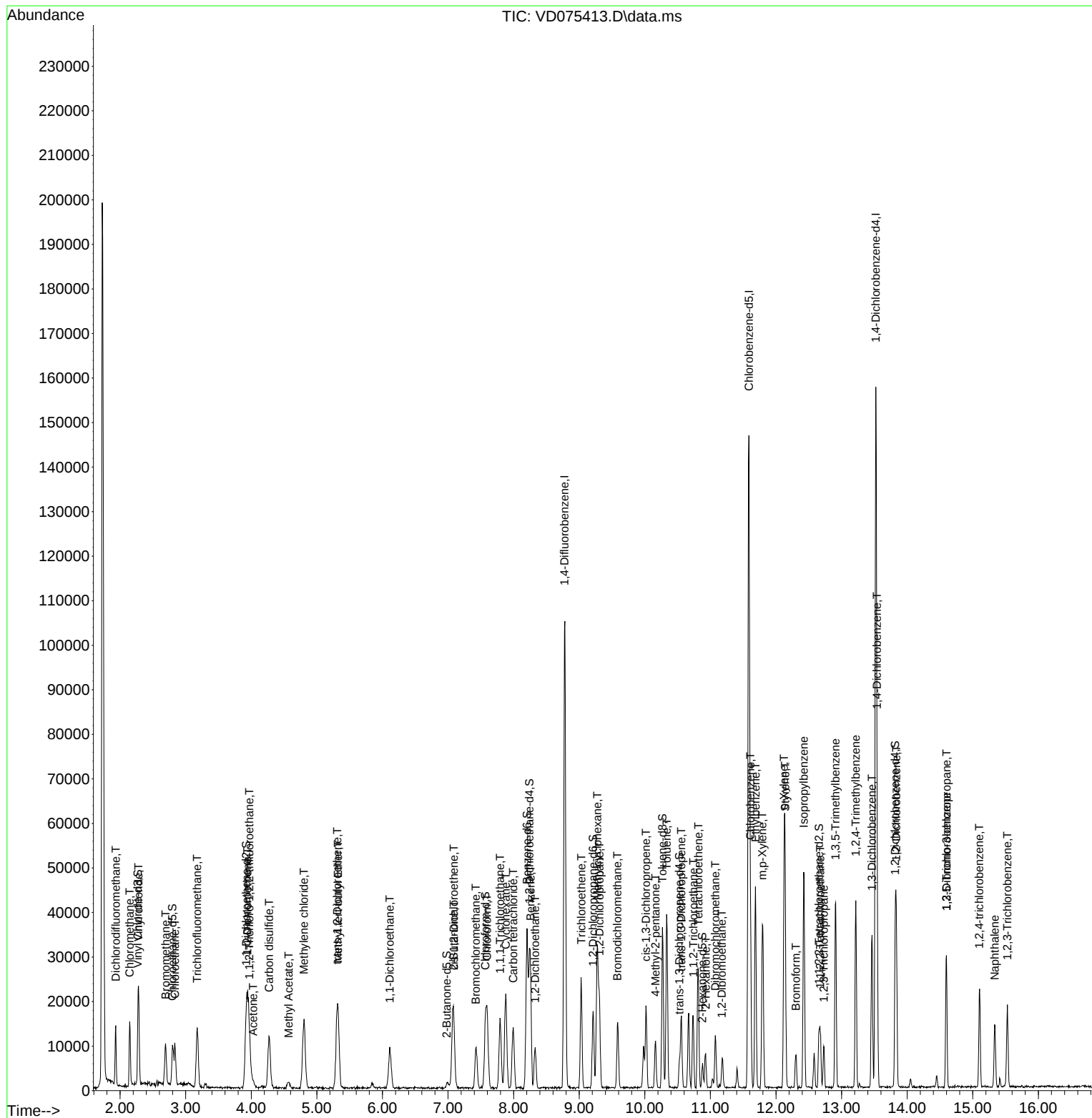
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| 45) 1,1,2-Trichloroethane     | 10.740 | 97   | 5049     | 5.016  | ug/L   | 89       |
| 46) Tetrachloroethene         | 10.816 | 164  | 6050     | 5.218  | ug/L   | 88       |
| 48) 2-Hexanone                | 10.928 | 43   | 5742     | 10.025 | ug/L # | 95       |
| 49) Dibromochloromethane      | 11.075 | 129  | 6054     | 5.116  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 11.175 | 107  | 5007     | 5.383  | ug/L # | 67       |
| 51) Chlorobenzene             | 11.610 | 112  | 19083    | 5.138  | ug/L   | 98       |
| 52) Ethylbenzene              | 11.687 | 91   | 31104    | 4.808  | ug/L   | 96       |
| 53) m,p-Xylene                | 11.793 | 106  | 12031    | 4.933  | ug/L   | 89       |
| 54) o-Xylene                  | 12.122 | 106  | 10732    | 4.654  | ug/L   | 94       |
| 55) Styrene                   | 12.140 | 104  | 18995    | 4.741  | ug/L   | 95       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 5487     | 4.906  | ug/L # | 92       |
| 59) Bromoform                 | 12.304 | 173  | 3612     | 5.094  | ug/L # | 93       |
| 60) Isopropylbenzene          | 12.422 | 105  | 29837    | 4.636  | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 3821     | 5.054  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 22926    | 4.546  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 21518    | 4.427  | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 13.463 | 146  | 13959    | 4.984  | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 13.540 | 146  | 14174    | 4.958  | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 11936    | 4.861  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 14.598 | 75   | 1516     | 8.900  | ug/L # | 1        |
| 69) 1,3,5-Trichlorobenzene    | 14.598 | 180  | 9134     | 4.947  | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 7304     | 4.917  | ug/L   | 94       |
| 71) Naphthalene               | 15.334 | 128  | 12423    | 4.626  | ug/L # | 93       |
| 72) 1,2,3-Trichlorobenzene    | 15.528 | 180  | 6336     | 4.946  | ug/L   | 98       |
| -----                         |        |      |          |        |        |          |

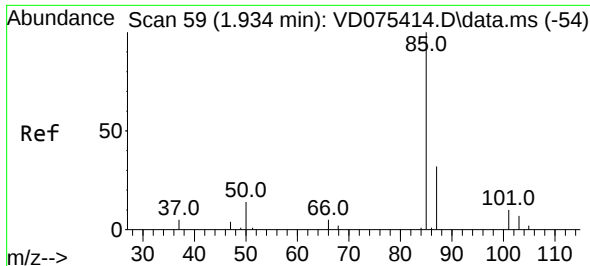
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

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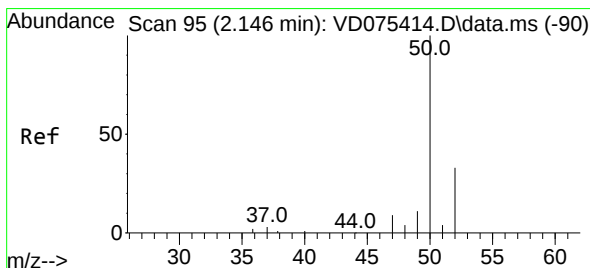
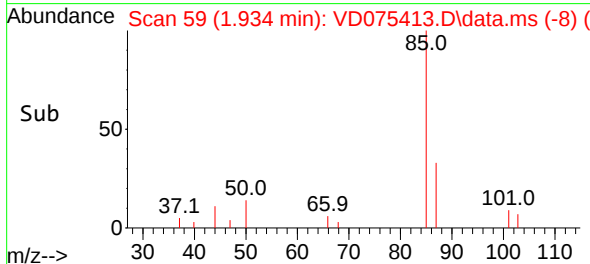
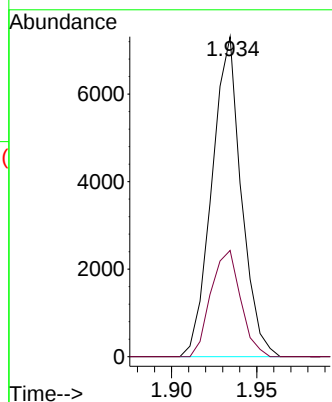
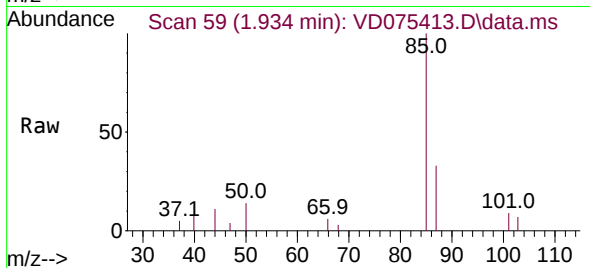




#2  
 Dichlorodifluoromethane  
 Concen: 5.209 ug/L  
 RT: 1.934 min Scan# 59  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

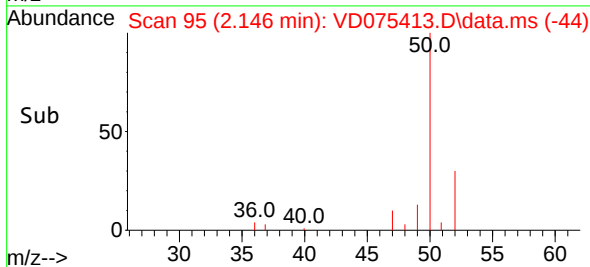
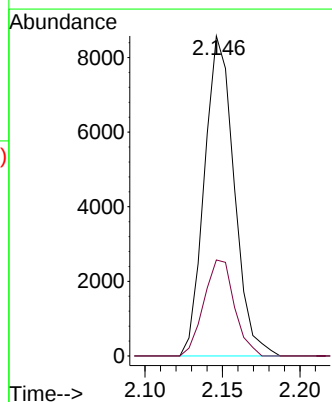
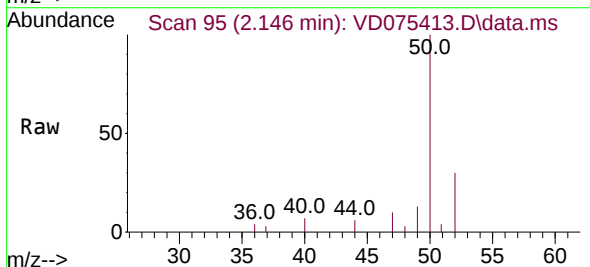
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD005106

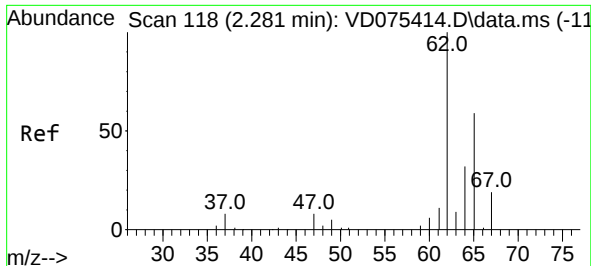
Tgt Ion: 85 Resp: 8809  
 Ion Ratio Lower Upper  
 85 100  
 87 33.5 25.1 37.7



#3  
 Chloromethane  
 Concen: 5.666 ug/L  
 RT: 2.146 min Scan# 95  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

Tgt Ion: 50 Resp: 11451  
 Ion Ratio Lower Upper  
 50 100  
 52 30.0 22.8 42.4

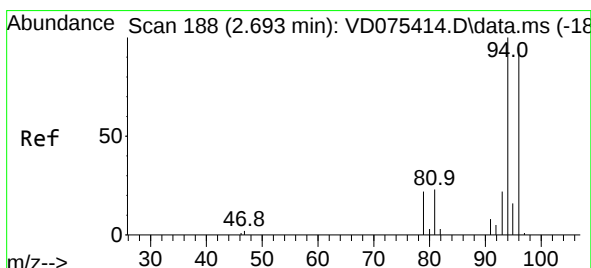
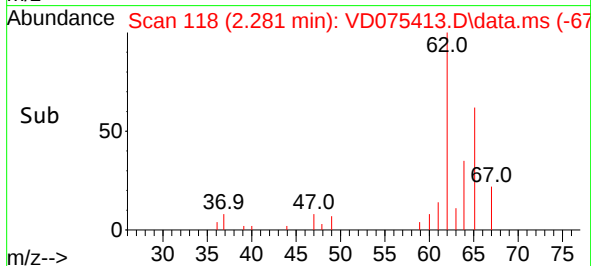
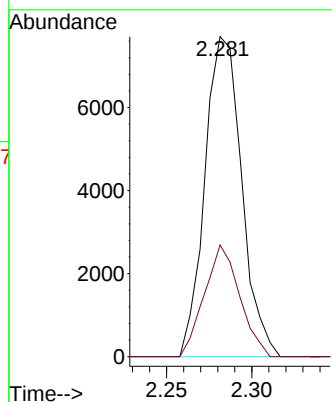
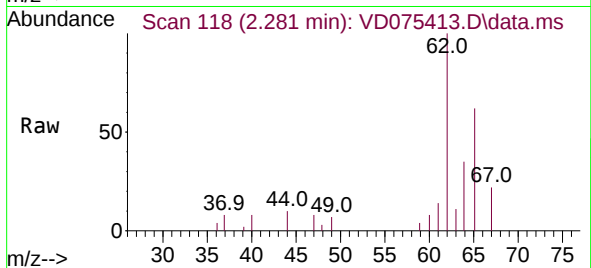




#5  
 Vinyl chloride  
 Concen: 5.158 ug/L  
 RT: 2.281 min Scan# 118  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

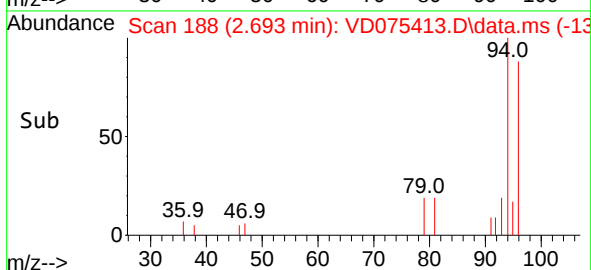
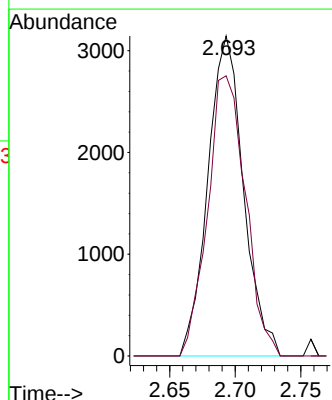
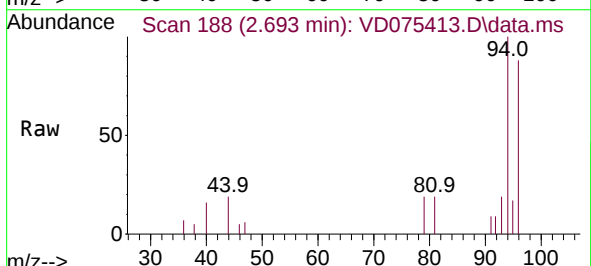
Instrument :  
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 ClientSampleId :  
 VSTD005106

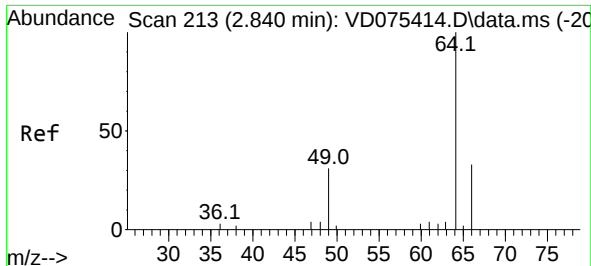
Tgt Ion: 62 Resp: 11588  
 Ion Ratio Lower Upper  
 62 100  
 64 34.9 22.4 41.6



#6  
 Bromomethane  
 Concen: 5.314 ug/L  
 RT: 2.693 min Scan# 188  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

Tgt Ion: 94 Resp: 5943  
 Ion Ratio Lower Upper  
 94 100  
 96 87.5 66.4 123.4

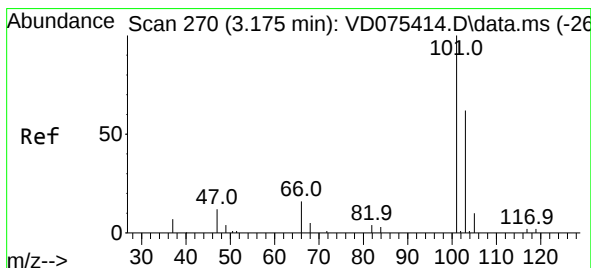
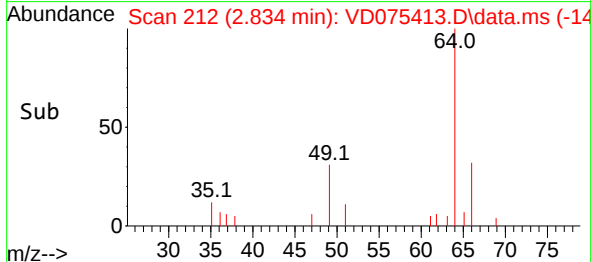
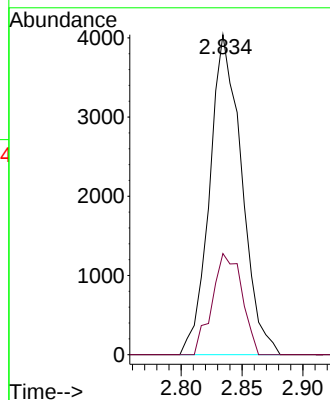
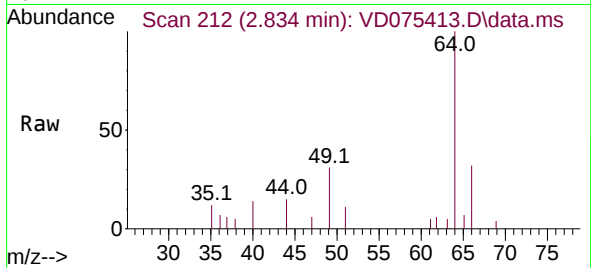




#8  
Chloroethane  
Concen: 5.402 ug/L  
RT: 2.834 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

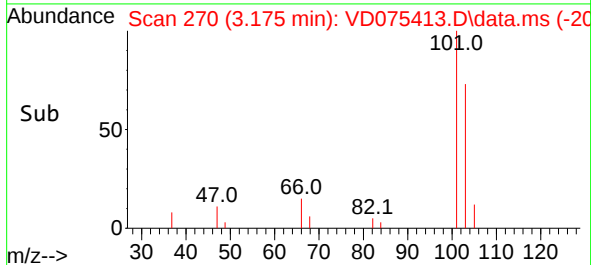
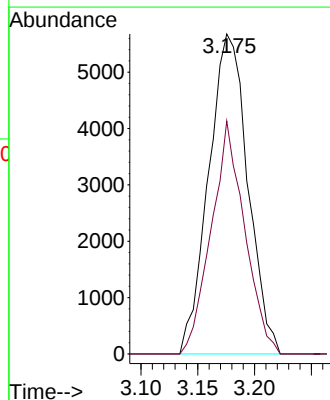
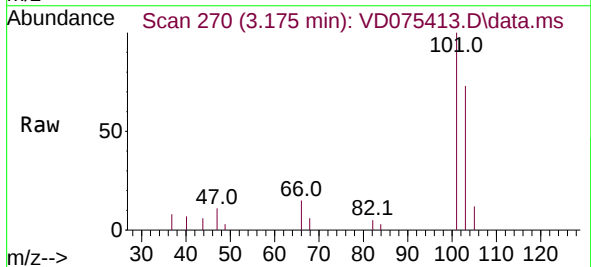
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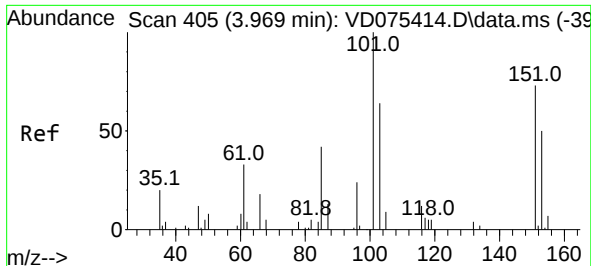
Tgt Ion: 64 Resp: 7394  
Ion Ratio Lower Upper  
64 100  
66 31.6 23.2 43.0



#9  
Trichlorofluoromethane  
Concen: 5.364 ug/L  
RT: 3.175 min Scan# 270  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion:101 Resp: 13632  
Ion Ratio Lower Upper  
101 100  
103 62.0 50.2 75.2

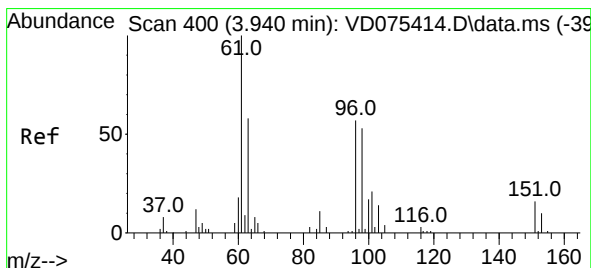
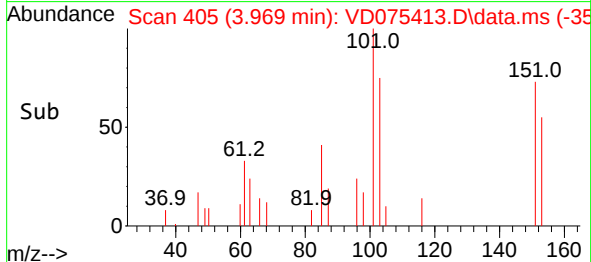
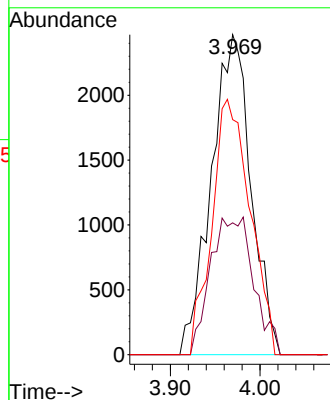
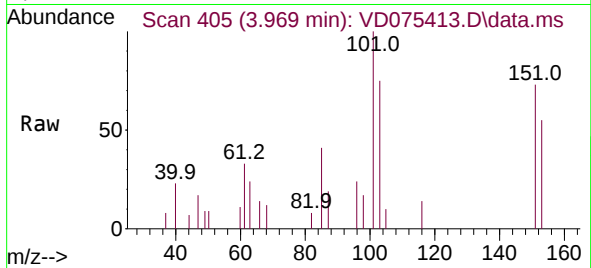




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 4.978 ug/L  
 RT: 3.969 min Scan# 405  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

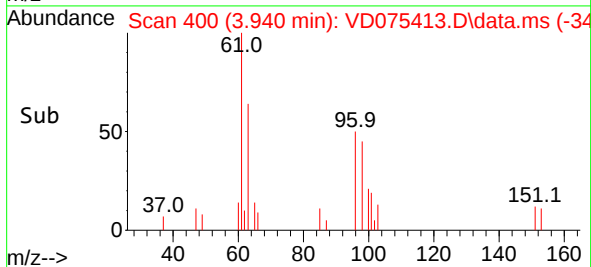
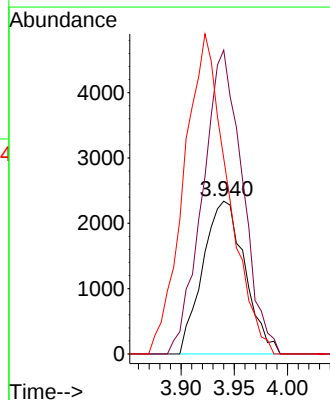
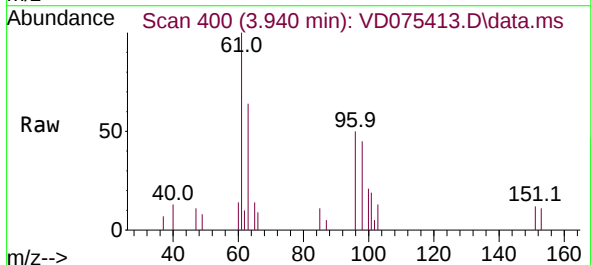
Instrument :  
 MSVOA\_D  
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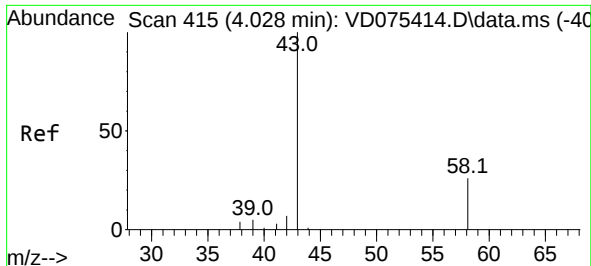
Tgt Ion:101 Resp: 7596  
 Ion Ratio Lower Upper  
 101 100  
 85 21.3 36.7 55.1#  
 151 76.6 58.2 87.2



#12  
 1,1-Dichloroethene  
 Concen: 4.881 ug/L  
 RT: 3.940 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

Tgt Ion: 96 Resp: 6411  
 Ion Ratio Lower Upper  
 96 100  
 61 198.7 123.8 229.8  
 63 128.0 81.3 150.9





#13

Acetone

Concen: 10.810 ug/L

RT: 4.028 min Scan# 415

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

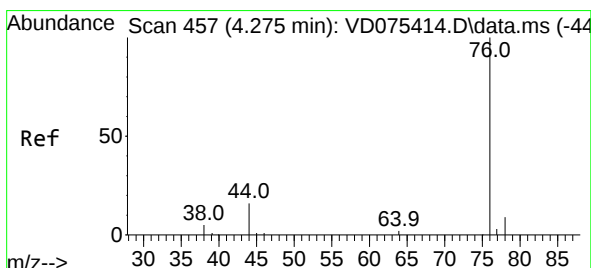
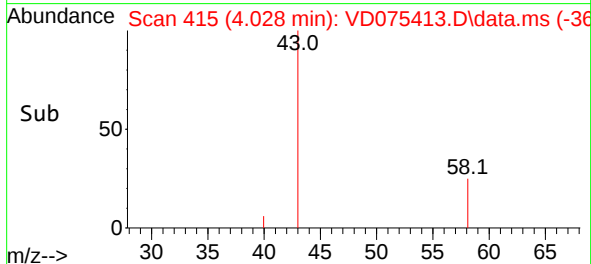
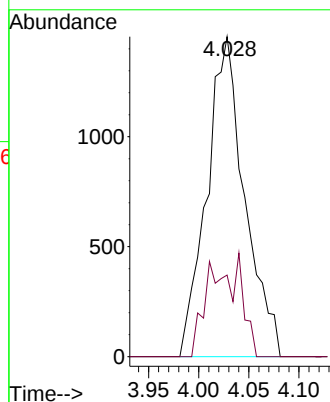
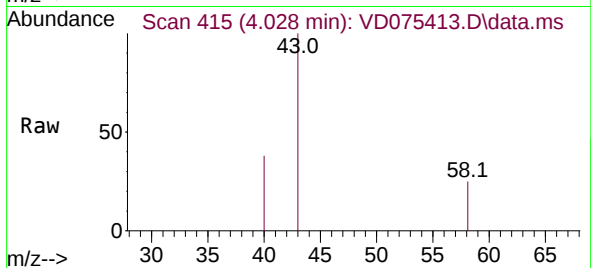
VSTD005106

Tgt Ion: 43 Resp: 3817

Ion Ratio Lower Upper

43 100

58 9.0 0.0 53.8



#14

Carbon disulfide

Concen: 5.500 ug/L

RT: 4.269 min Scan# 456

Delta R.T. -0.006 min

Lab File: VD075413.D

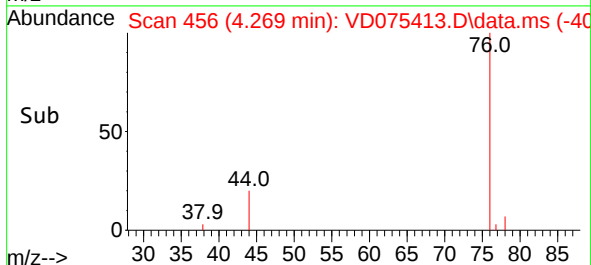
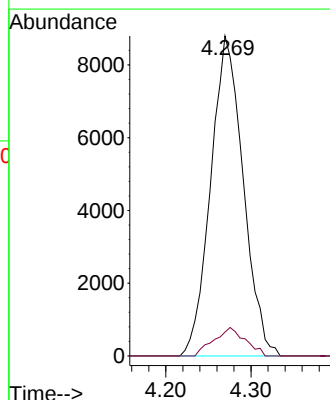
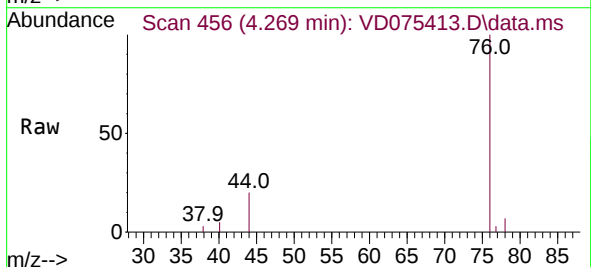
Acq: 23 Feb 2023 14:27

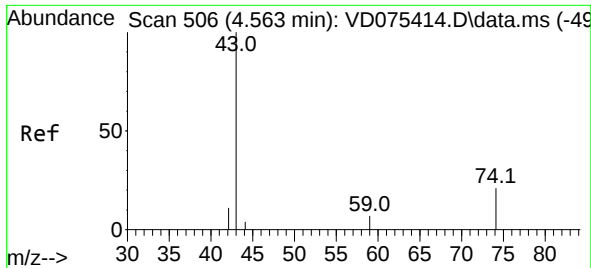
Tgt Ion: 76 Resp: 23290

Ion Ratio Lower Upper

76 100

78 7.4 7.0 10.6

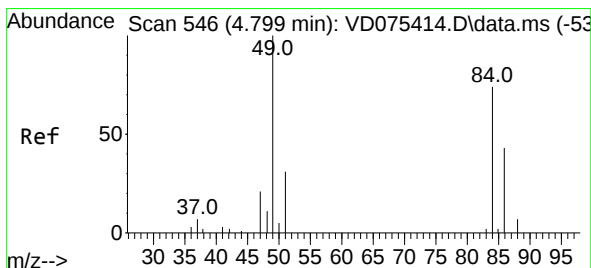
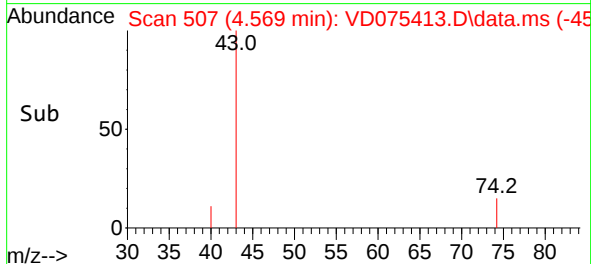
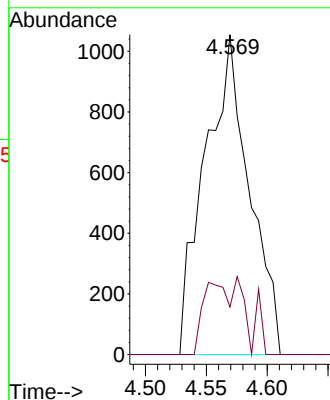
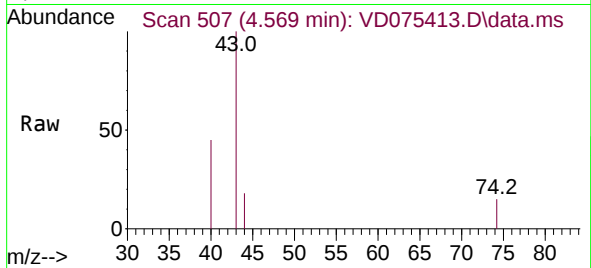




#15  
Methyl Acetate  
Concen: 4.930 ug/L  
RT: 4.569 min Scan# 506  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

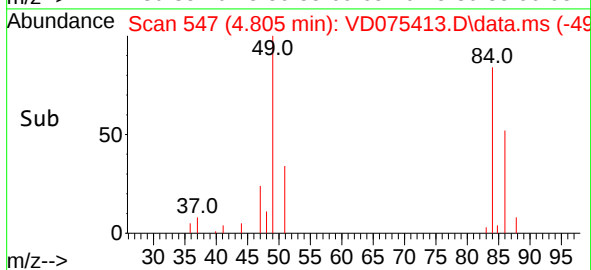
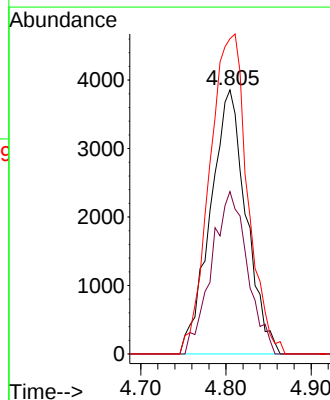
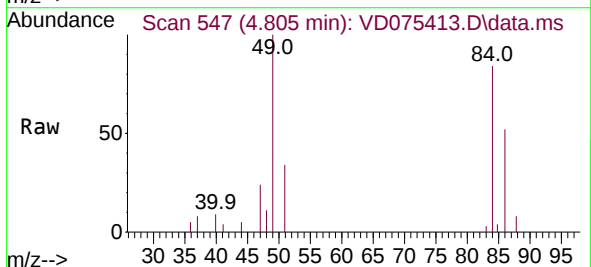
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

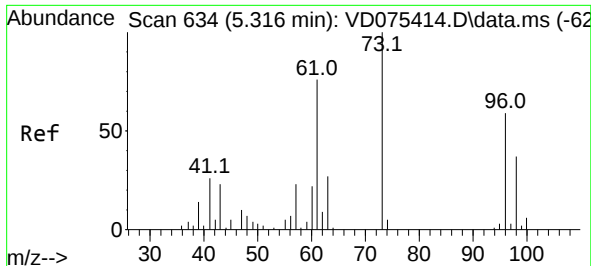
Tgt Ion: 43 Resp: 2674  
Ion Ratio Lower Upper  
43 100  
74 5.8 12.4 18.6#



#16  
Methylene chloride  
Concen: 6.390 ug/L  
RT: 4.805 min Scan# 547  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 84 Resp: 11267  
Ion Ratio Lower Upper  
84 100  
86 61.5 41.0 76.2  
49 119.3 95.2 176.8





#17

trans-1,2-Dichloroethene

Concen: 3.540 ug/L

RT: 5.311 min Scan# 61

Delta R.T. -0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

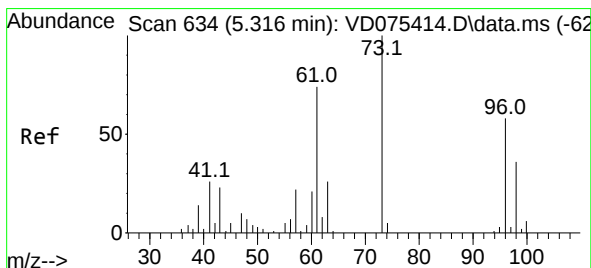
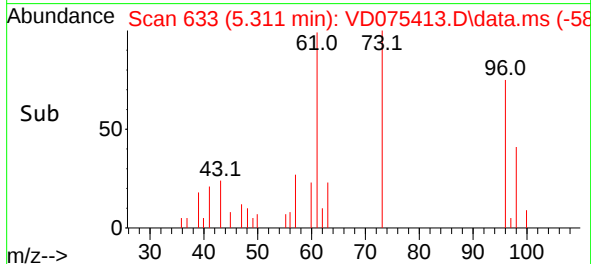
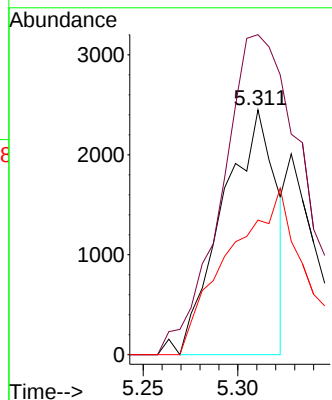
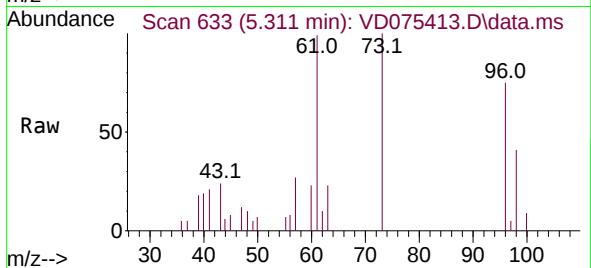
Tgt Ion: 96 Resp: 4793

Ion Ratio Lower Upper

96 100

61 130.7 90.2 167.4

98 54.9 43.7 81.1



#18

Methyl tert-butyl Ether

Concen: 4.697 ug/L

RT: 5.322 min Scan# 635

Delta R.T. 0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

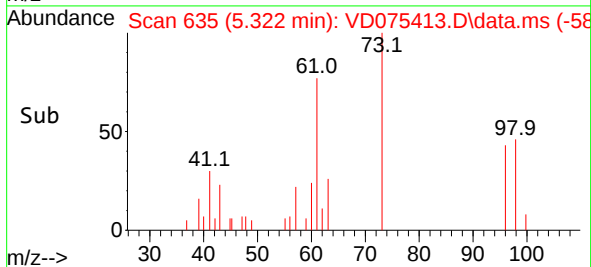
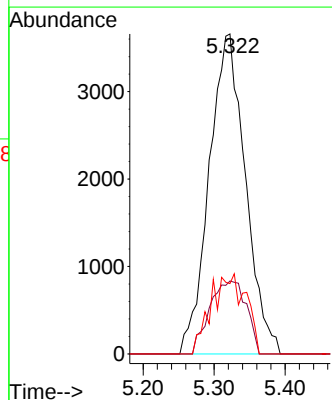
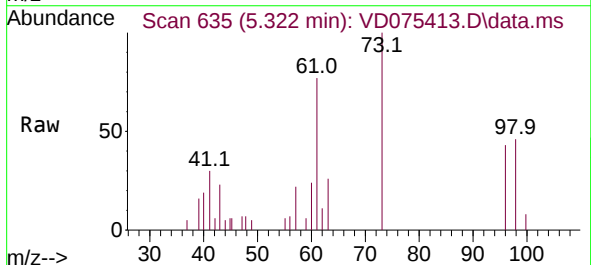
Tgt Ion: 73 Resp: 12973

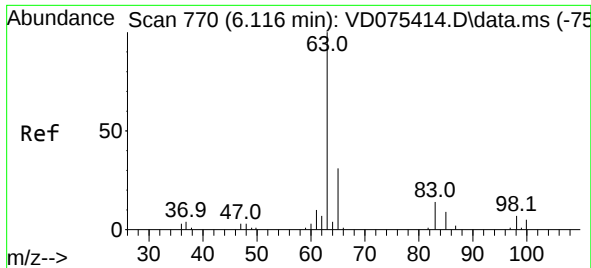
Ion Ratio Lower Upper

73 100

43 23.1 17.8 26.6

57 4.0 18.0 27.0#





#19

1,1-Dichloroethane

Concen: 5.005 ug/L

RT: 6.111 min Scan# 71

Delta R.T. -0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

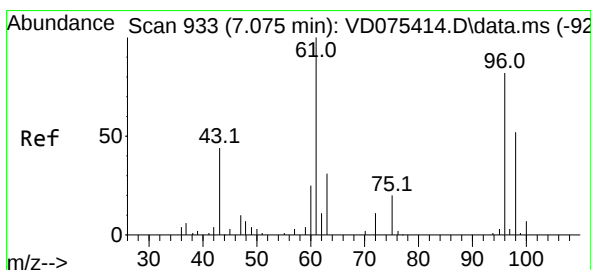
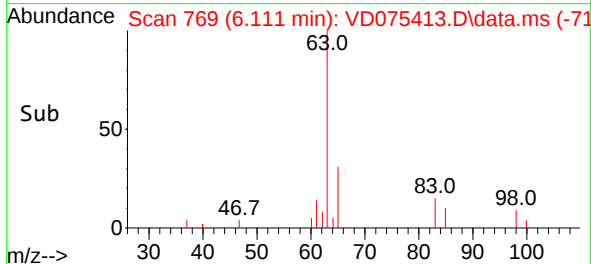
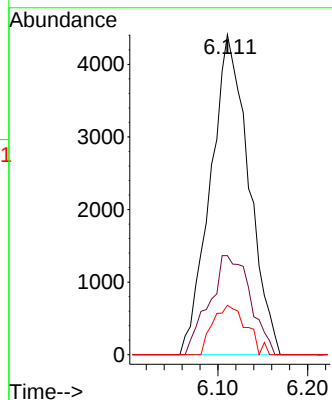
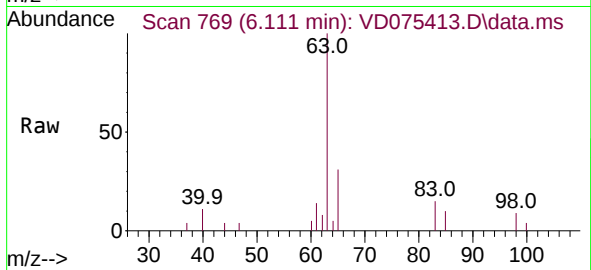
Tgt Ion: 63 Resp: 13050

Ion Ratio Lower Upper

63 100

65 31.0 21.8 40.4

83 15.4 9.9 18.5



#20

cis-1,2-Dichloroethene

Concen: 5.052 ug/L

RT: 7.087 min Scan# 935

Delta R.T. 0.012 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

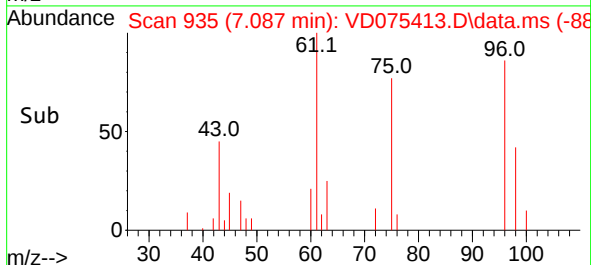
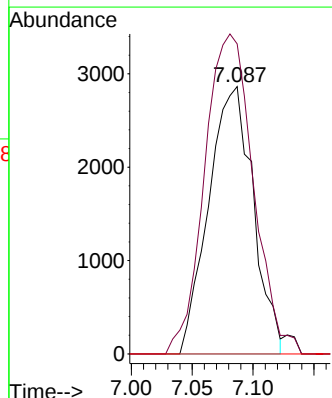
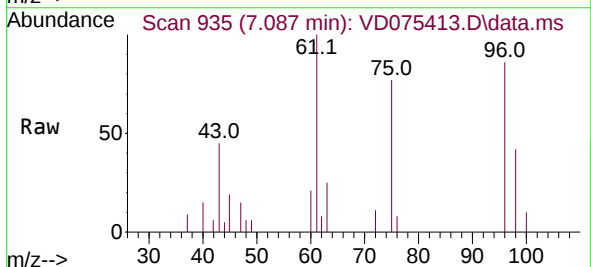
Tgt Ion: 96 Resp: 7300

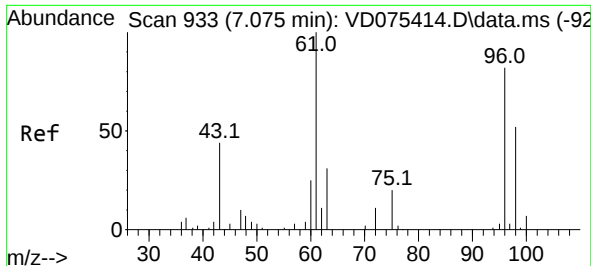
Ion Ratio Lower Upper

96 100

61 116.0 85.3 158.5

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.758 ug/L

RT: 7.087 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

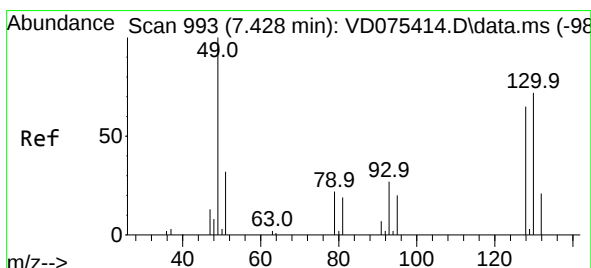
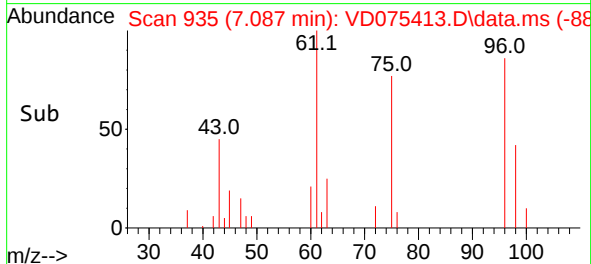
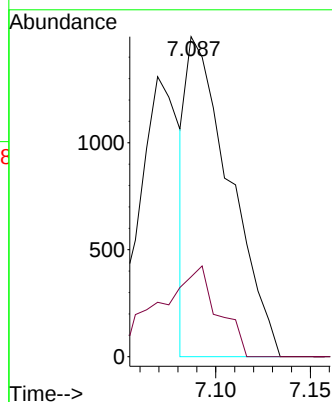
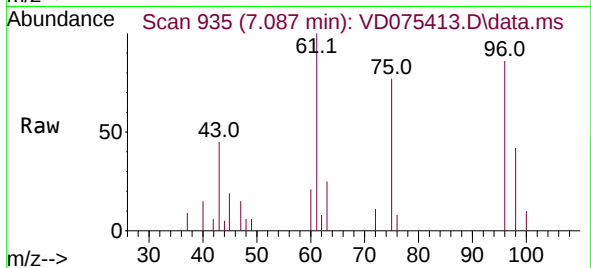
VSTD005106

Tgt Ion: 43 Resp: 2366

Ion Ratio Lower Upper

43 100

72 36.0 12.8 38.3



#23

Bromochloromethane

Concen: 5.538 ug/L

RT: 7.422 min Scan# 992

Delta R.T. -0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Tgt Ion: 128 Resp: 3542

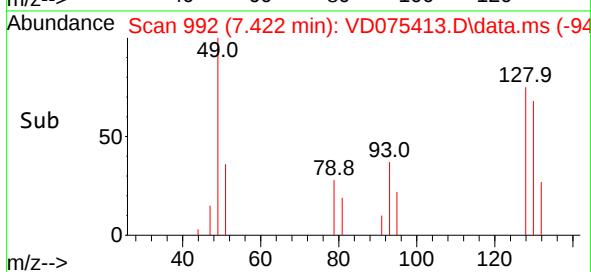
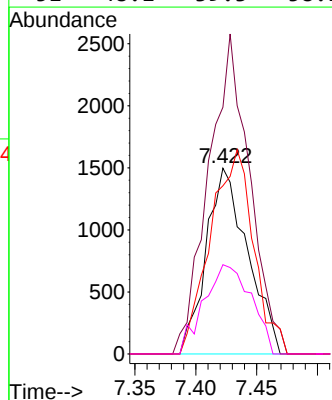
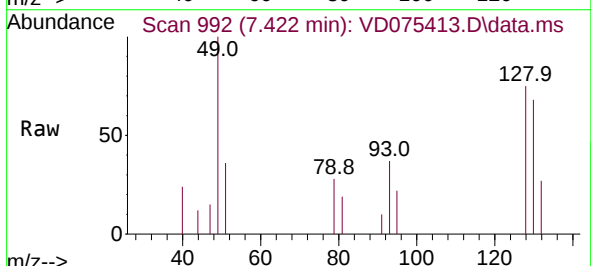
Ion Ratio Lower Upper

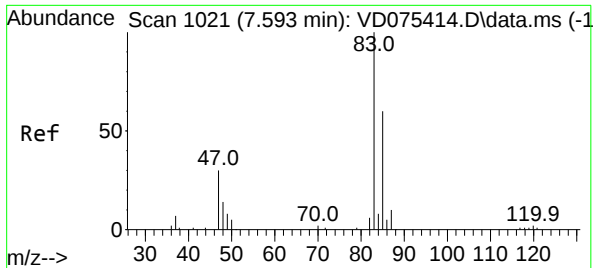
128 100

49 132.8 108.4 201.2

130 90.5 77.9 144.7

51 48.1 39.3 58.9

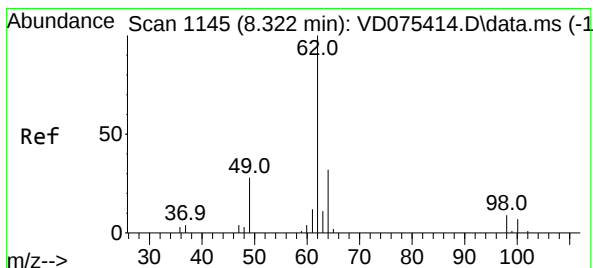
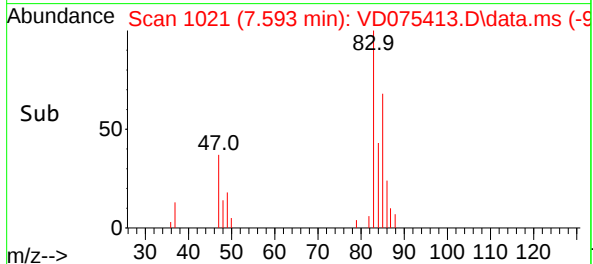
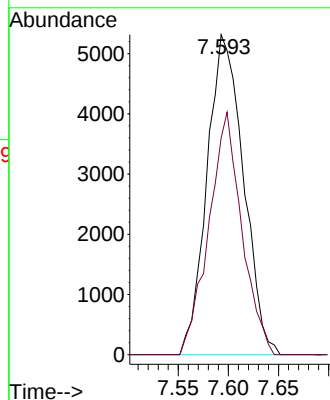
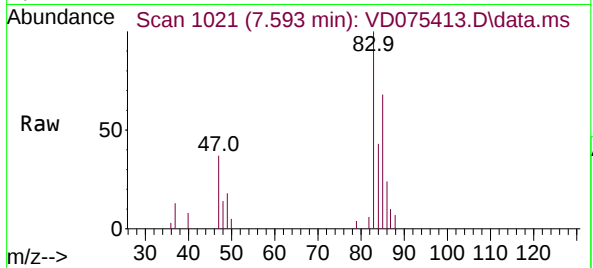




#25  
Chloroform  
Concen: 5.013 ug/L  
RT: 7.593 min Scan# 1021  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

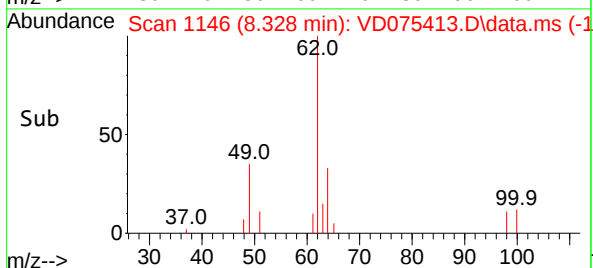
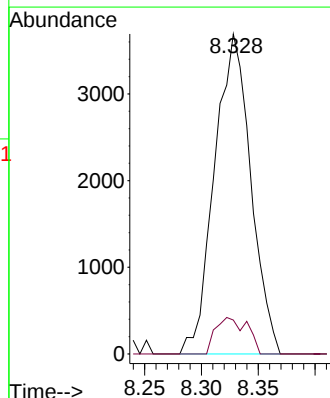
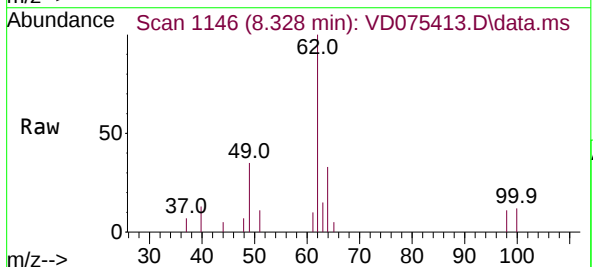
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

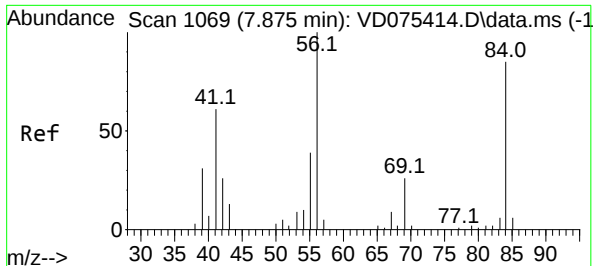
Tgt Ion: 83 Resp: 13411  
Ion Ratio Lower Upper  
83 100  
85 67.7 42.1 78.3



#27  
1,2-Dichloroethane  
Concen: 4.879 ug/L  
RT: 8.328 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 62 Resp: 8205  
Ion Ratio Lower Upper  
62 100  
98 10.6 6.8 10.2#





#29

Cyclohexane

Concen: 5.023 ug/L

RT: 7.881 min Scan# 1070

Delta R.T. 0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

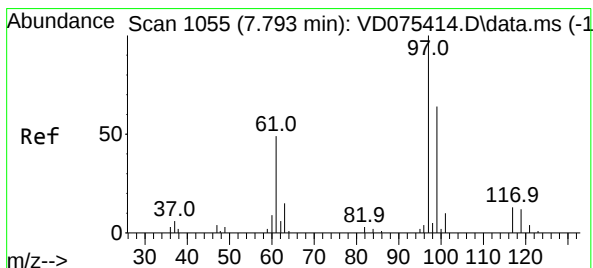
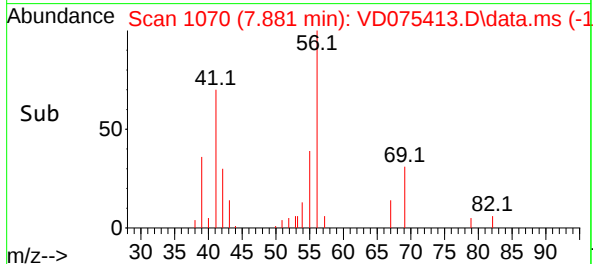
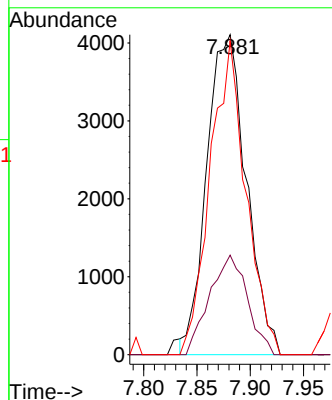
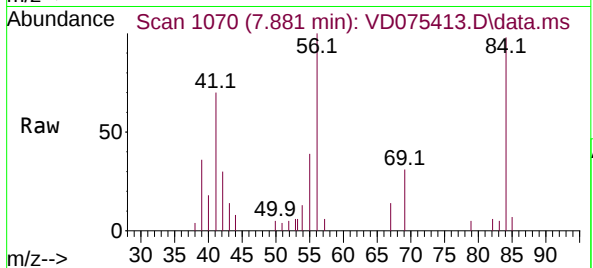
Tgt Ion: 56 Resp: 10608

Ion Ratio Lower Upper

56 100

69 29.8 23.2 34.8

84 88.5 70.1 105.1



#30

1,1,1-Trichloroethane

Concen: 5.145 ug/L

RT: 7.793 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

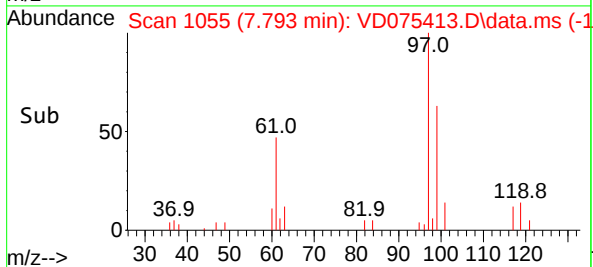
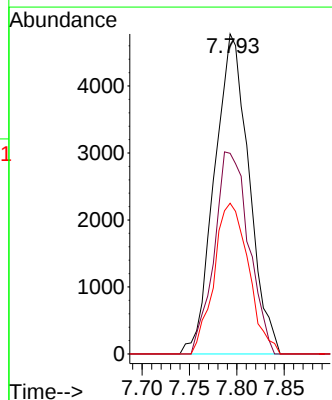
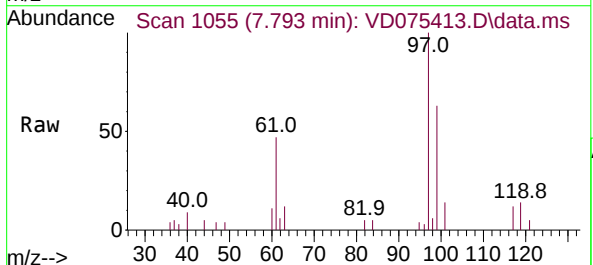
Tgt Ion: 97 Resp: 12067

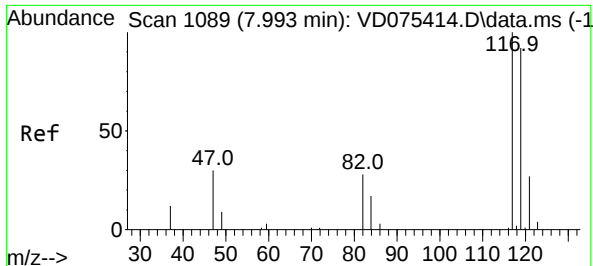
Ion Ratio Lower Upper

97 100

99 63.3 52.6 78.8

61 47.2 37.8 56.8

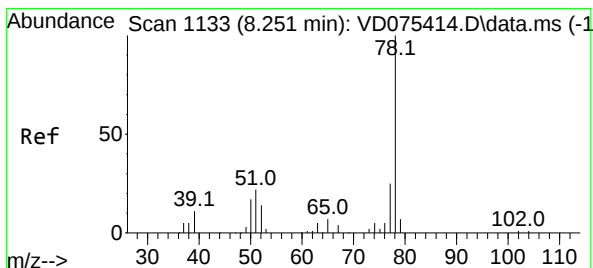
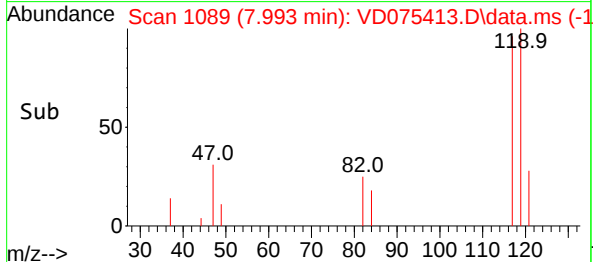
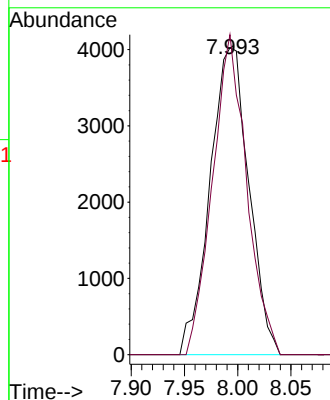
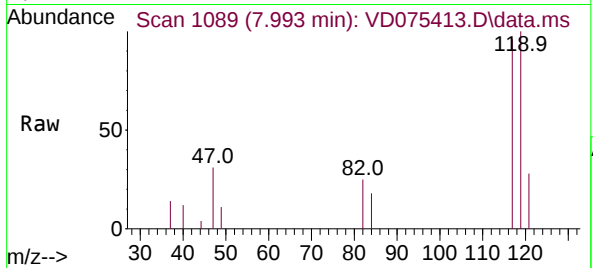




#31  
Carbon tetrachloride  
Concen: 5.080 ug/L  
RT: 7.993 min Scan# 1108  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

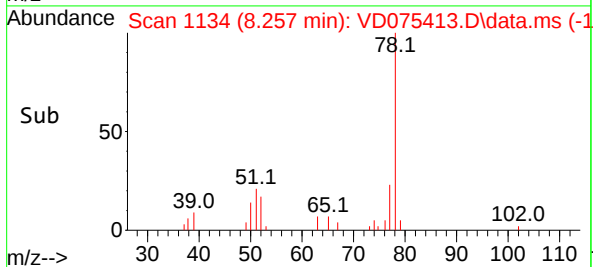
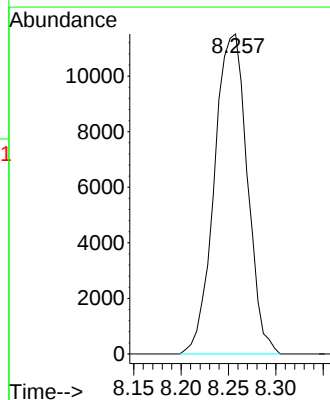
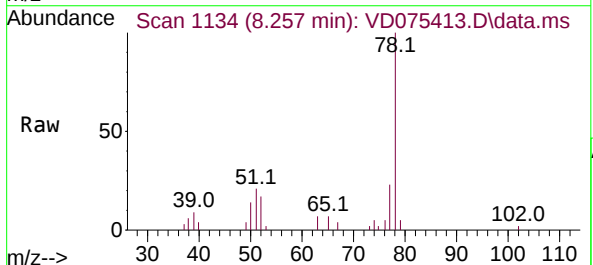
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

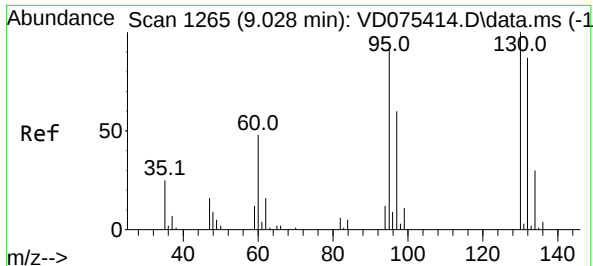
Tgt Ion:117 Resp: 10231  
Ion Ratio Lower Upper  
117 100  
119 91.4 76.2 114.2



#33  
Benzene  
Concen: 5.044 ug/L  
RT: 8.257 min Scan# 1134  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 78 Resp: 27878



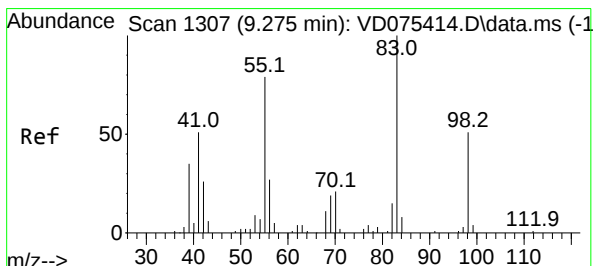
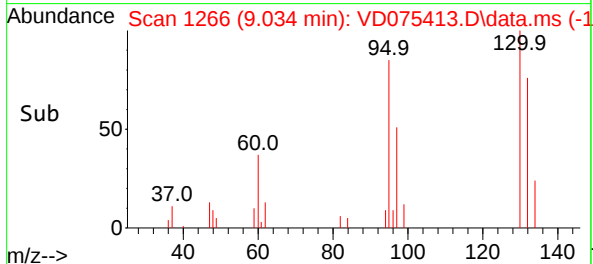
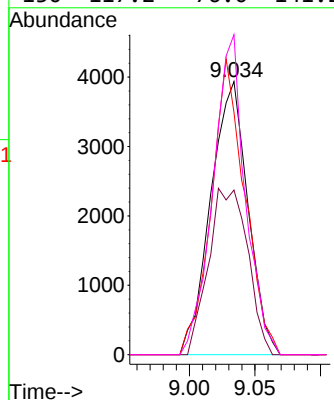
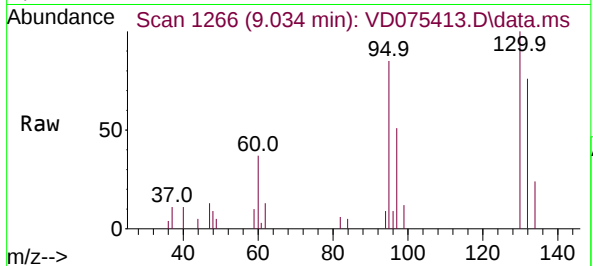


#34  
Trichloroethene  
Concen: 5.291 ug/L  
RT: 9.034 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

Tgt Ion: 95 Resp: 7775

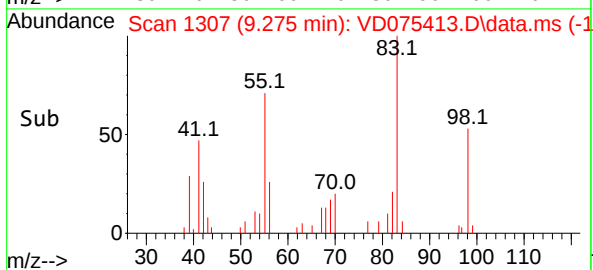
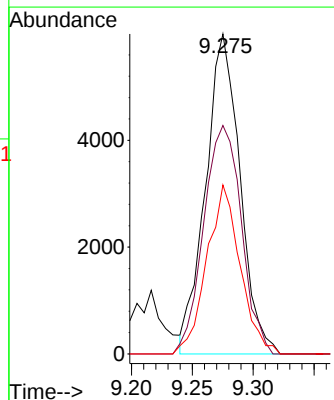
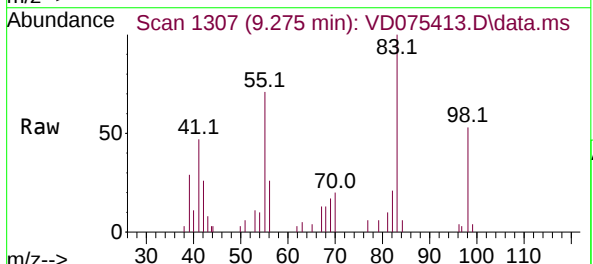
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 60.3  | 45.4  | 84.4  |
| 132 | 88.7  | 65.9  | 122.3 |
| 130 | 117.2 | 76.0  | 141.2 |

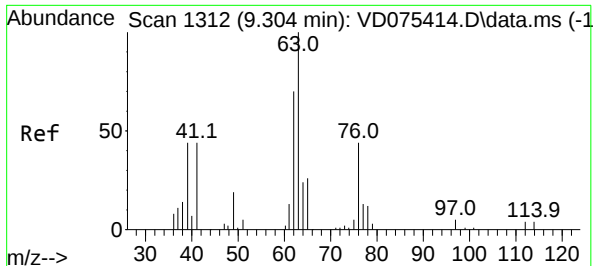


#35  
Methylcyclohexane  
Concen: 5.008 ug/L  
RT: 9.275 min Scan# 1307  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 83 Resp: 11791

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 78.3  | 60.6  | 90.8  |
| 98  | 51.2  | 39.6  | 59.4  |

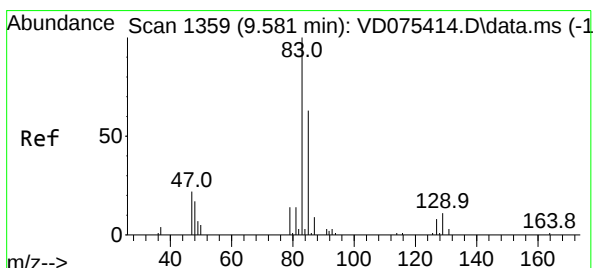
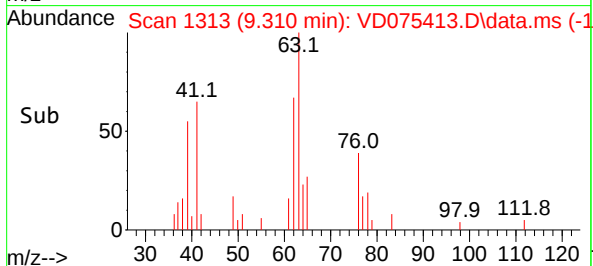
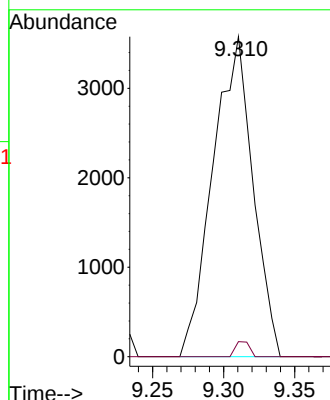
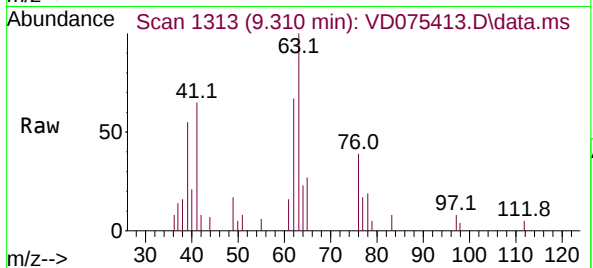




#37  
1,2-Dichloropropane  
Concen: 4.868 ug/L  
RT: 9.310 min Scan# 1312  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

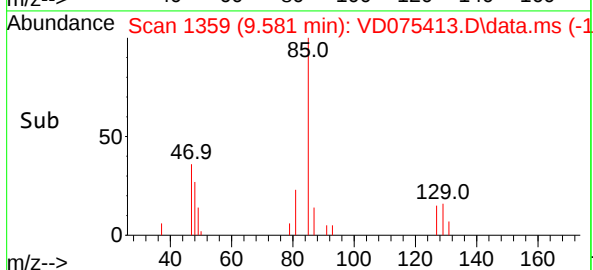
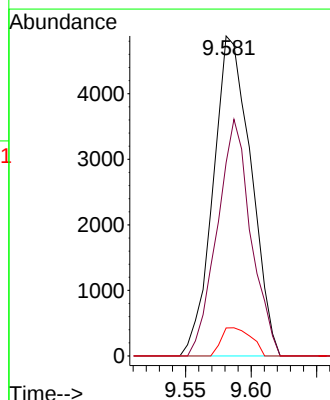
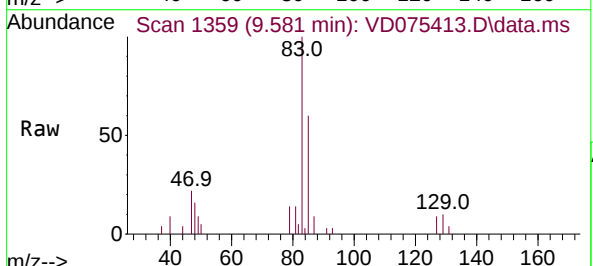
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

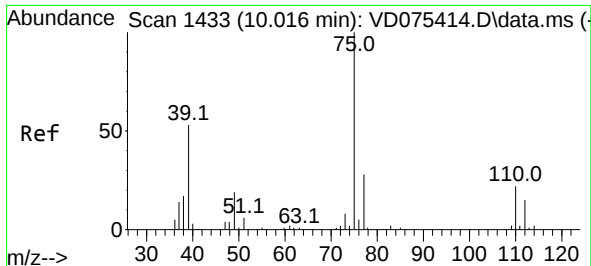
Tgt Ion: 63 Resp: 7014  
Ion Ratio Lower Upper  
63 100  
112 1.7 3.5 5.3#



#38  
Bromodichloromethane  
Concen: 5.243 ug/L  
RT: 9.581 min Scan# 1359  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 83 Resp: 9772  
Ion Ratio Lower Upper  
83 100  
85 60.4 43.9 81.5  
127 8.8 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 4.706 ug/L

RT: 10.016 min Scan# 1433

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

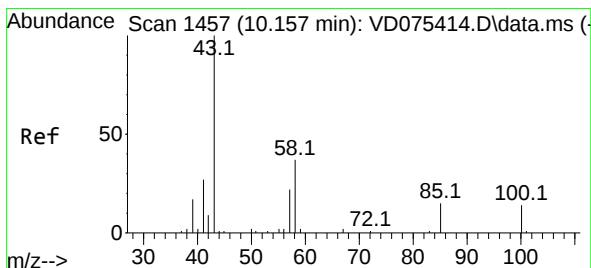
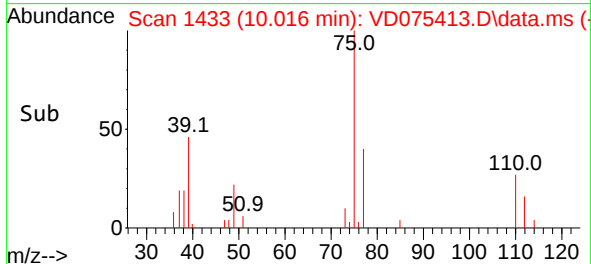
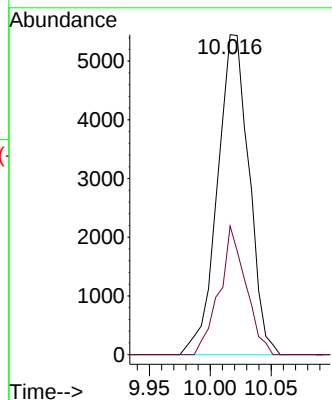
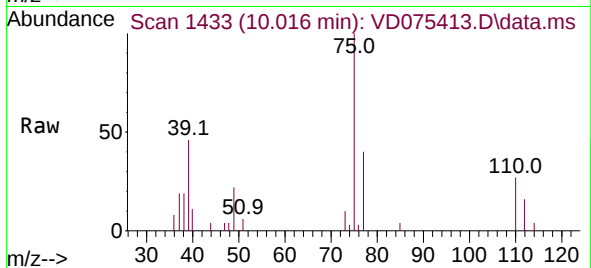
VSTD005106

Tgt Ion: 75 Resp: 9840

Ion Ratio Lower Upper

75 100

77 40.2 19.3 35.9#



#40

4-Methyl-2-pentanone

Concen: 9.583 ug/L

RT: 10.163 min Scan# 1458

Delta R.T. 0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

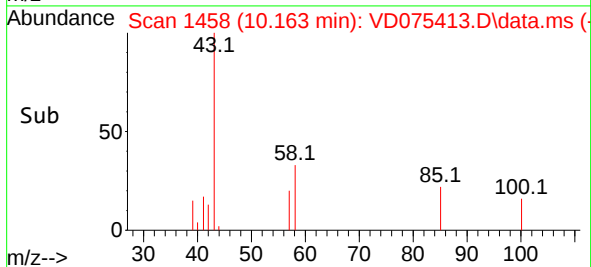
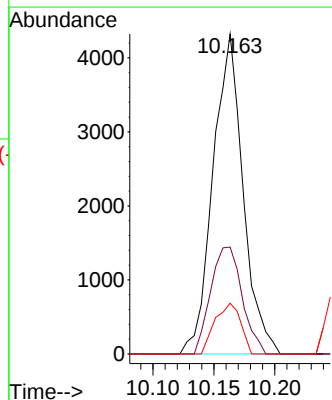
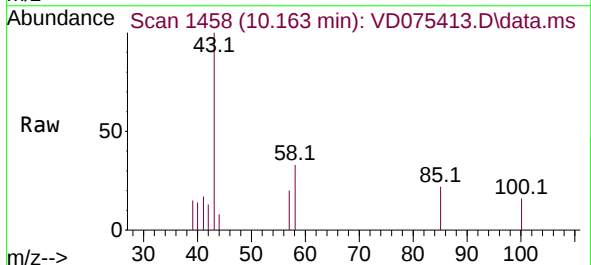
Tgt Ion: 43 Resp: 7419

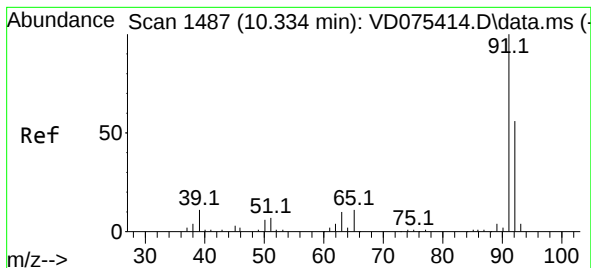
Ion Ratio Lower Upper

43 100

58 34.8 29.5 44.3

100 13.5 11.4 17.2





#42

Toluene

Concen: 4.939 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

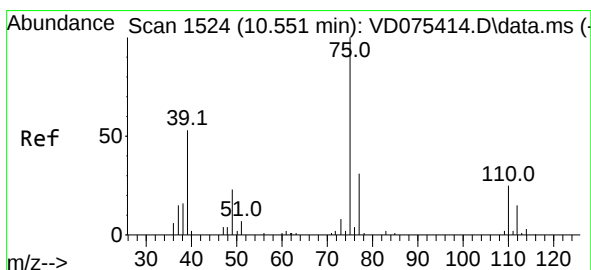
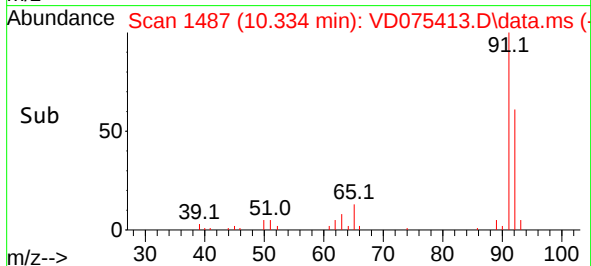
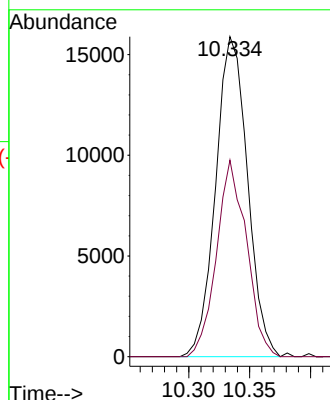
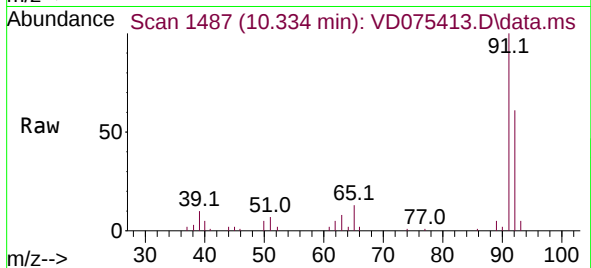
VSTD005106

Tgt Ion: 91 Resp: 28924

Ion Ratio Lower Upper

91 100

92 61.4 39.3 73.1



#44

trans-1,3-Dichloropropene

Concen: 4.783 ug/L

RT: 10.557 min Scan# 1525

Delta R.T. 0.006 min

Lab File: VD075413.D

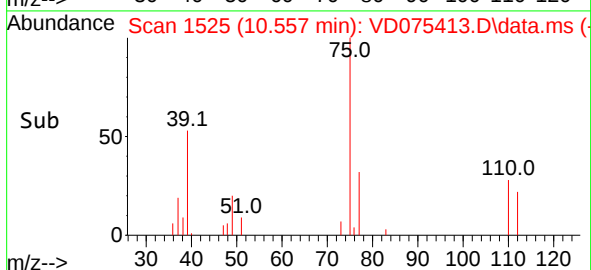
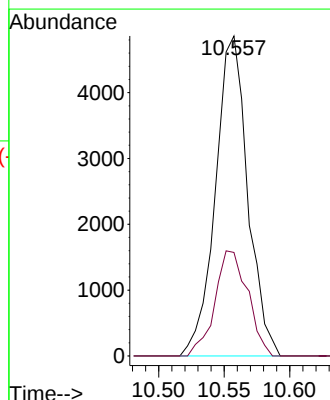
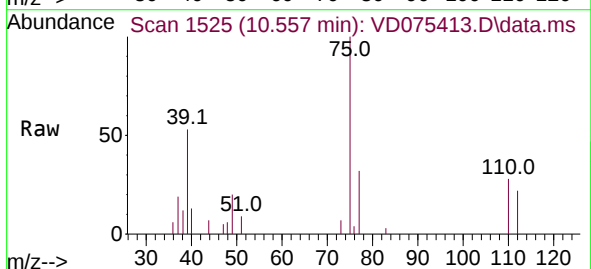
Acq: 23 Feb 2023 14:27

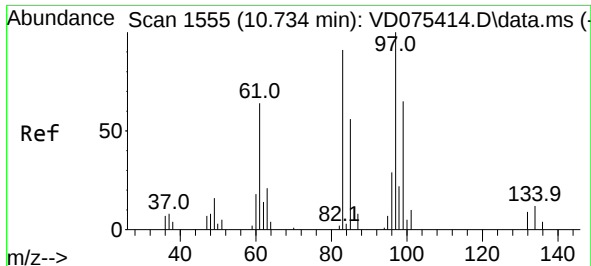
Tgt Ion: 75 Resp: 8320

Ion Ratio Lower Upper

75 100

77 32.4 21.4 39.8

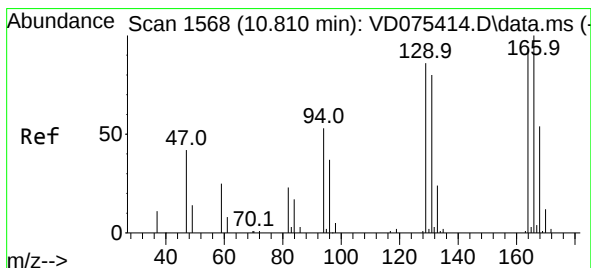
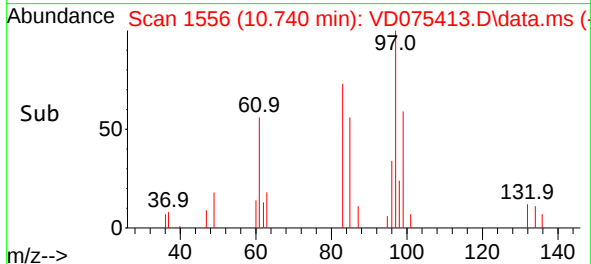
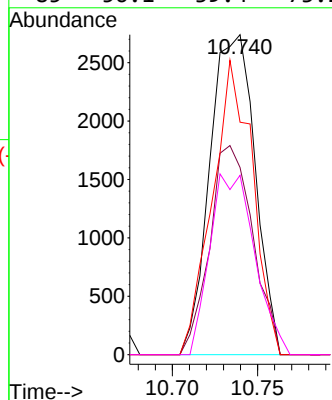
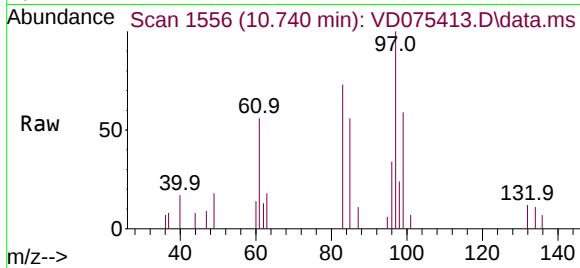




#45  
1,1,2-Trichloroethane  
Concen: 5.016 ug/L  
RT: 10.740 min Scan# 1555  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

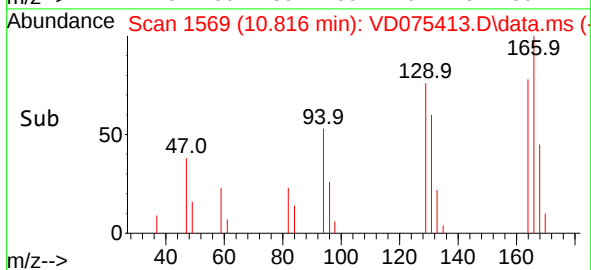
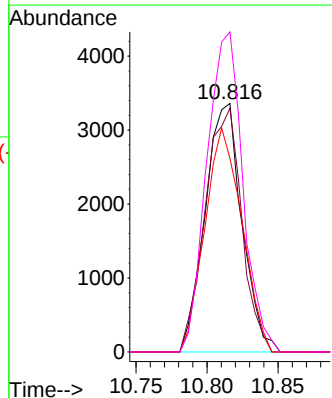
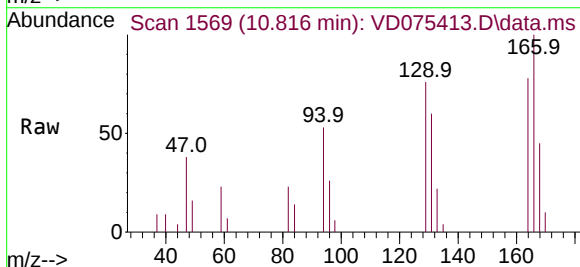
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

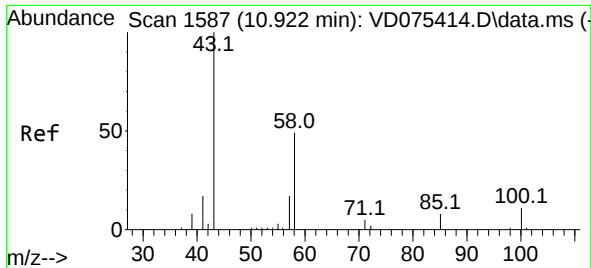
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 5049  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 58.5     | 45.4 84.2   |
| 83 72.7     | 63.8 118.6  |
| 85 56.1     | 39.4 73.2   |



#46  
Tetrachloroethene  
Concen: 5.218 ug/L  
RT: 10.816 min Scan# 1569  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:164 | Resp: | 6050  |       |
| Ion         | Ratio | Lower | Upper |
| 164         | 100   |       |       |
| 129         | 98.0  | 64.8  | 120.4 |
| 131         | 77.8  | 60.1  | 111.5 |
| 166         | 128.8 | 75.7  | 140.5 |

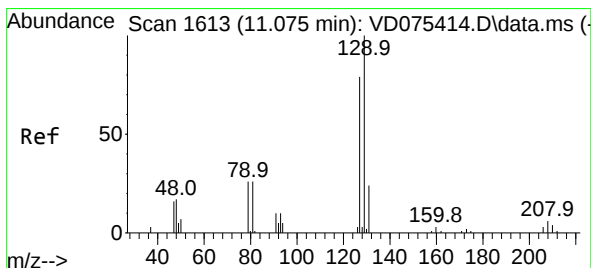
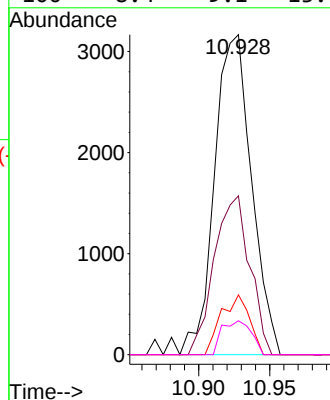
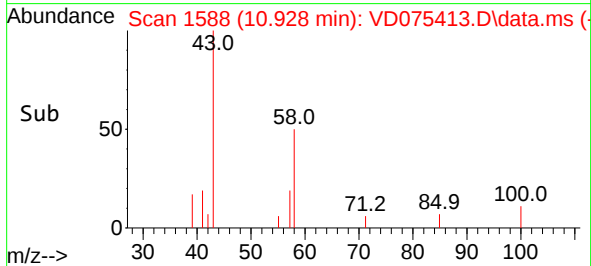
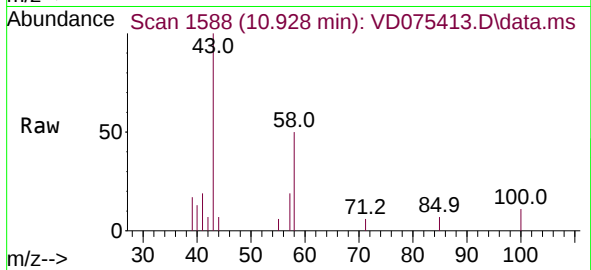




#48  
2-Hexanone  
Concen: 10.025 ug/L  
RT: 10.928 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

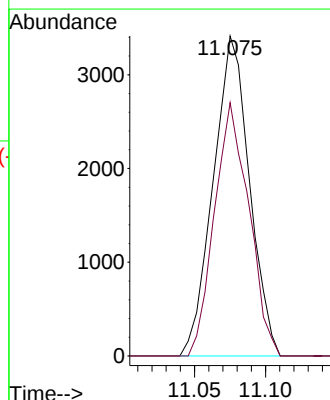
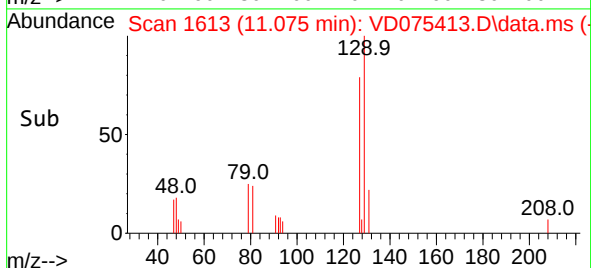
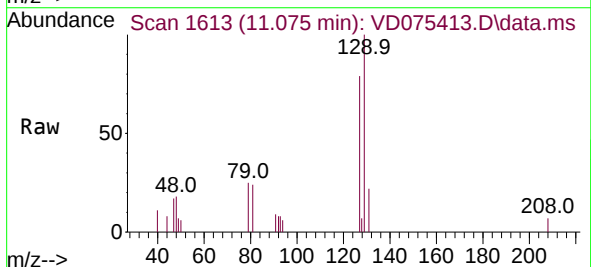
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

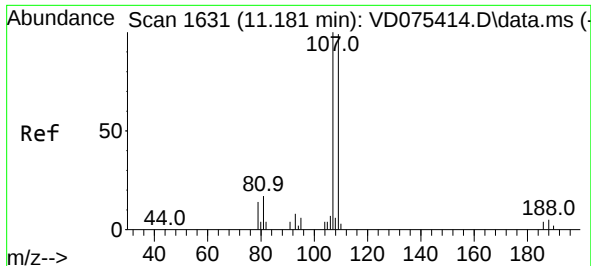
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 5742  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 47.7     | 40.3 60.5   |
| 57 14.3     | 13.4 20.0   |
| 100 8.4     | 9.1 13.7#   |



#49  
Dibromochloromethane  
Concen: 5.116 ug/L  
RT: 11.075 min Scan# 1613  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion:129 | Resp: 6054 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 129 100     |            |       |  |
| 127 79.1    | 55.3       | 102.7 |  |

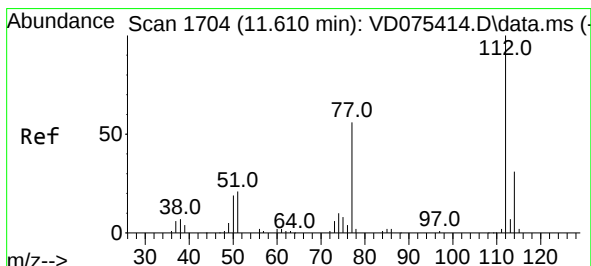
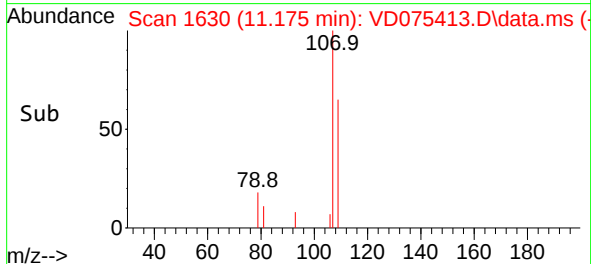
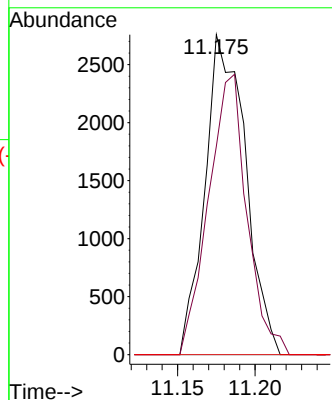
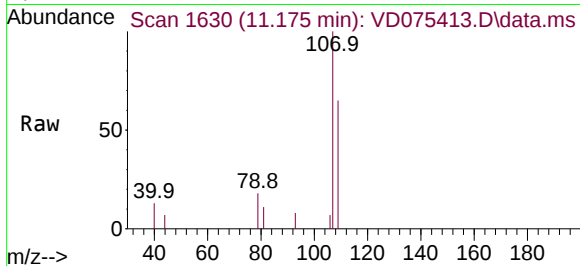




#50  
1,2-Dibromoethane  
Concen: 5.383 ug/L  
RT: 11.175 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

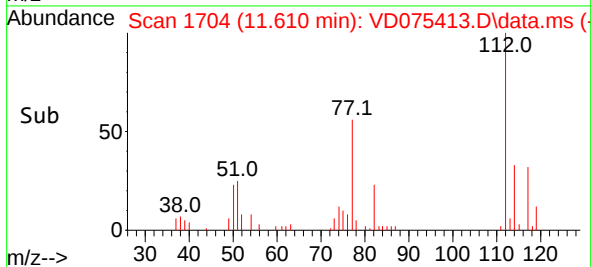
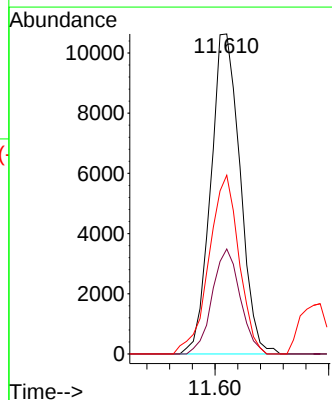
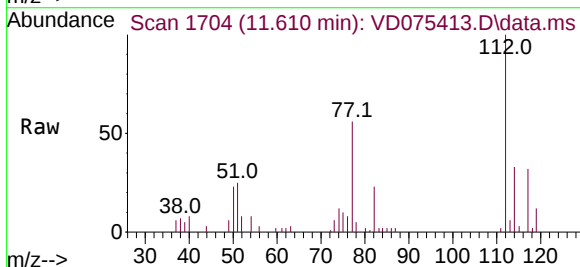
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

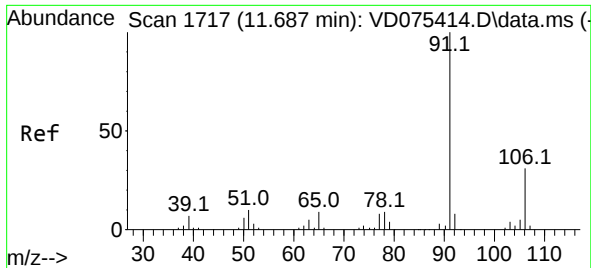
Tgt Ion:107 Resp: 5007  
Ion Ratio Lower Upper  
107 100  
109 65.2 69.6 129.2#  
188 0.0 3.8 5.6#



#51  
Chlorobenzene  
Concen: 5.138 ug/L  
RT: 11.610 min Scan# 1704  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion:112 Resp: 19083  
Ion Ratio Lower Upper  
112 100  
114 32.8 21.4 39.8  
77 55.9 45.1 67.7

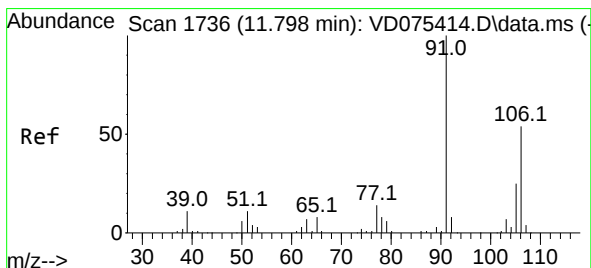
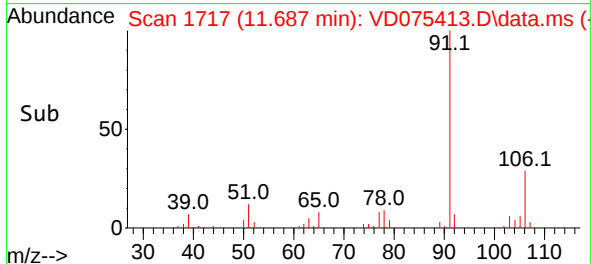
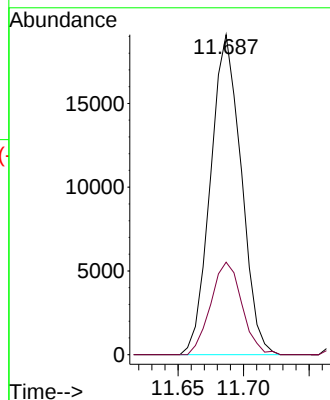
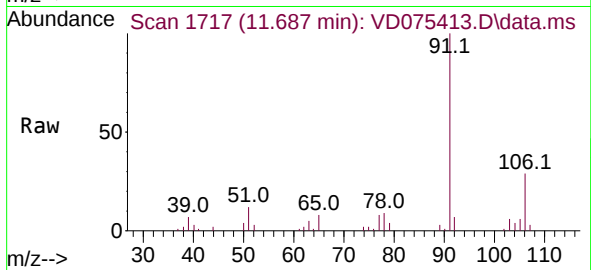




#52  
Ethylbenzene  
Concen: 4.808 ug/L  
RT: 11.687 min Scan# 1717  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

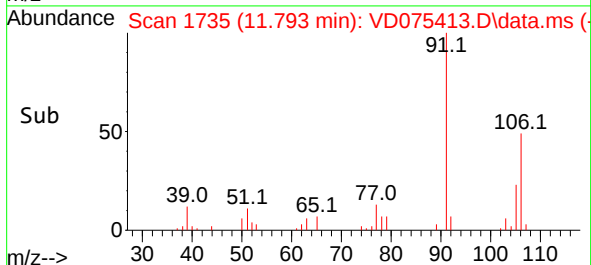
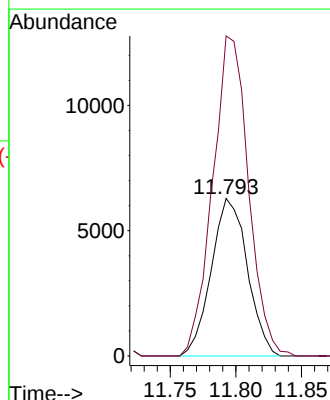
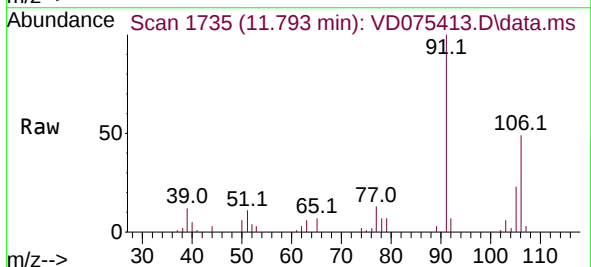
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

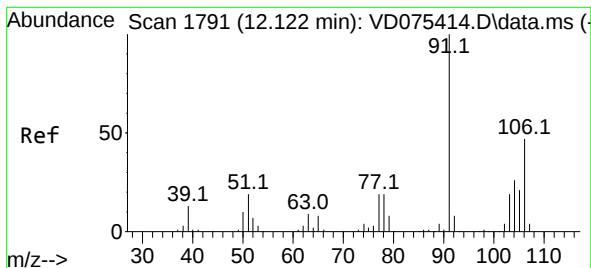
Tgt Ion: 91 Resp: 31104  
Ion Ratio Lower Upper  
91 100  
106 28.9 21.8 40.6



#53  
m,p-Xylene  
Concen: 4.933 ug/L  
RT: 11.793 min Scan# 1735  
Delta R.T. -0.006 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

Tgt Ion: 106 Resp: 12031  
Ion Ratio Lower Upper  
106 100  
91 203.3 131.2 243.6





#54

o-Xylene

Concen: 4.654 ug/L

RT: 12.122 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

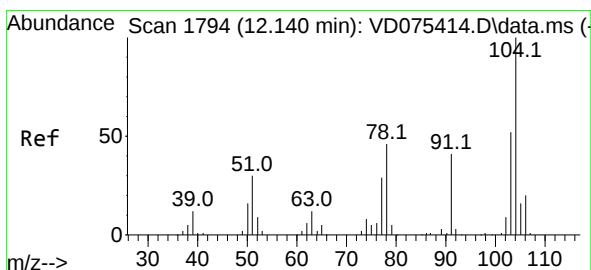
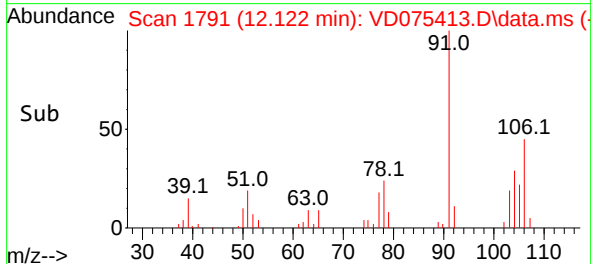
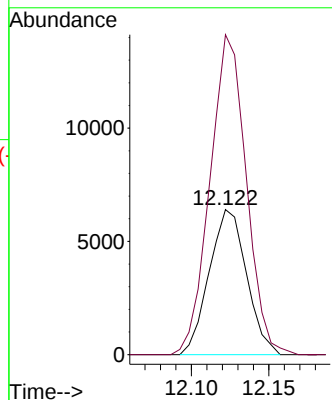
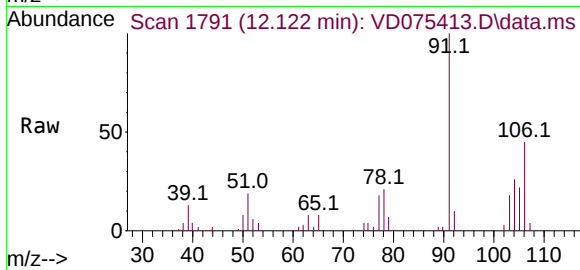
VSTD005106

Tgt Ion:106 Resp: 10732

Ion Ratio Lower Upper

106 100

91 220.6 147.7 274.3



#55

Styrene

Concen: 4.741 ug/L

RT: 12.140 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VD075413.D

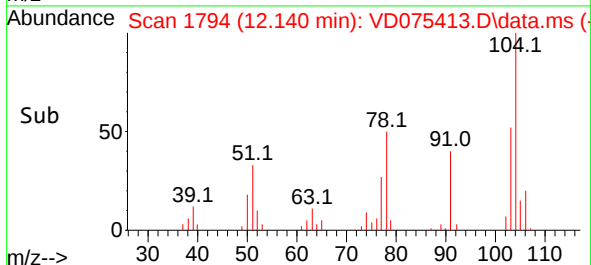
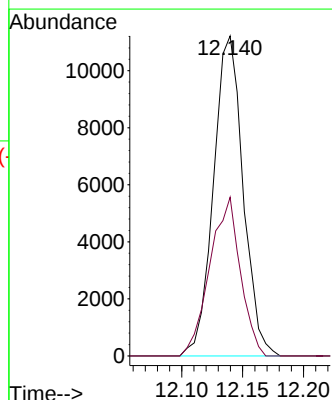
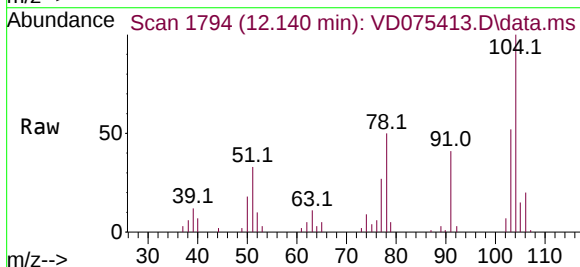
Acq: 23 Feb 2023 14:27

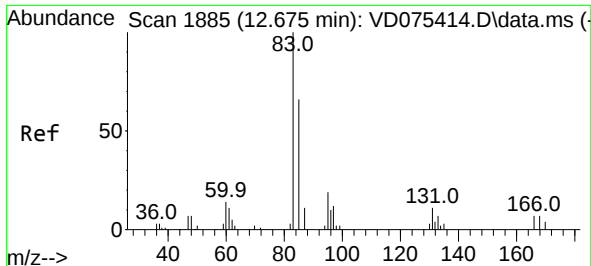
Tgt Ion:104 Resp: 18995

Ion Ratio Lower Upper

104 100

78 49.6 32.5 60.3





#57

1,1,2,2-Tetrachloroethane

Concen: 4.906 ug/L

RT: 12.675 min Scan# 1885

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

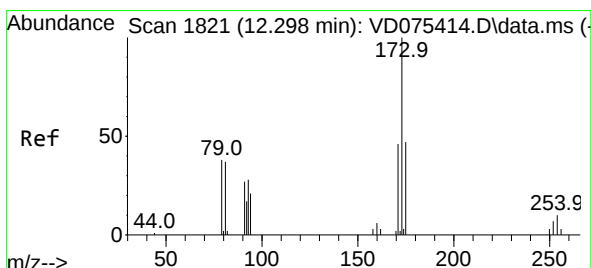
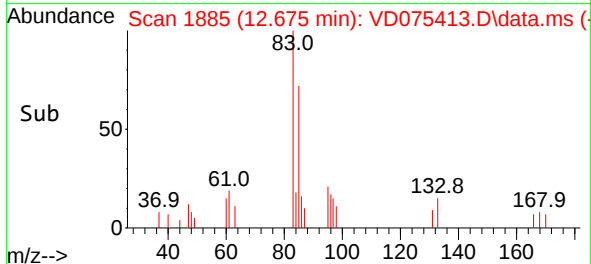
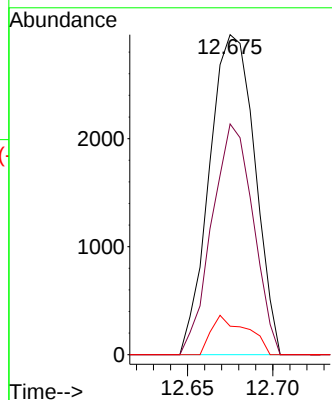
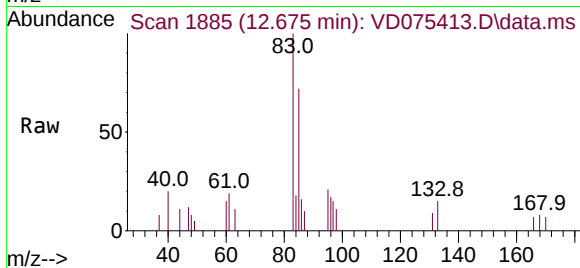
Tgt Ion: 83 Resp: 5487

Ion Ratio Lower Upper

83 100

85 72.1 45.9 85.3

131 8.9 9.0 13.6#



#59

Bromoform

Concen: 5.094 ug/L

RT: 12.304 min Scan# 1822

Delta R.T. 0.006 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

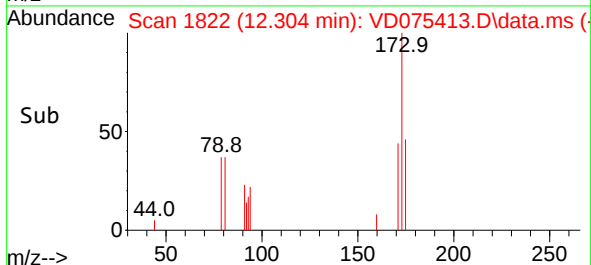
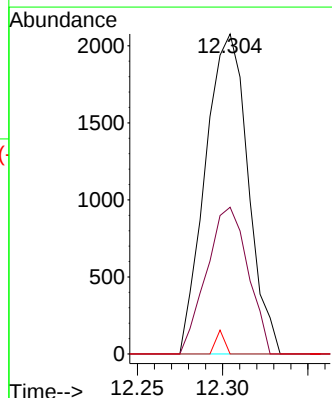
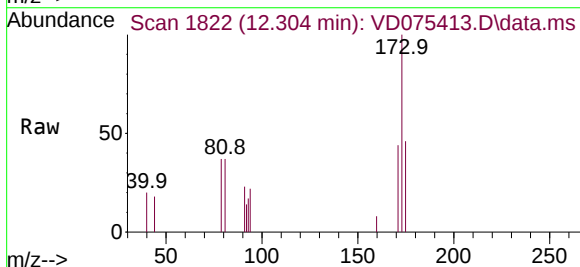
Tgt Ion:173 Resp: 3612

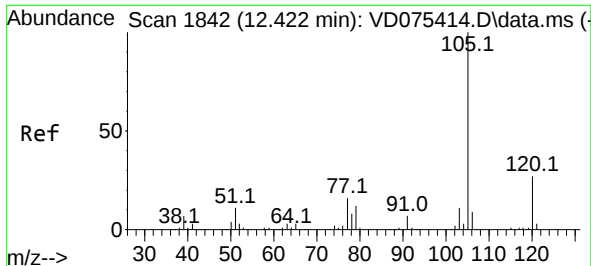
Ion Ratio Lower Upper

173 100

175 44.6 37.7 56.5

254 0.0 7.0 10.4#

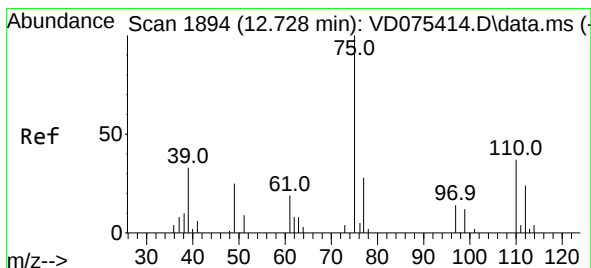
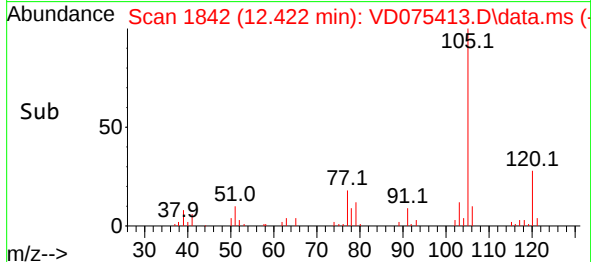
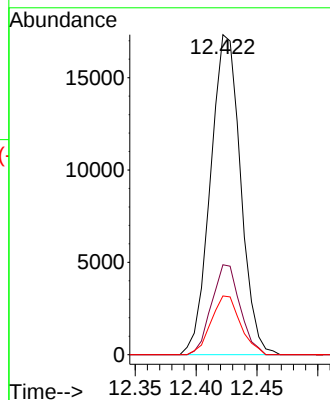
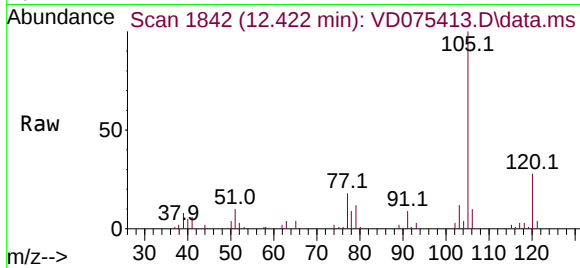




#60  
Isopropylbenzene  
Concen: 4.636 ug/L  
RT: 12.422 min Scan# 1842  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

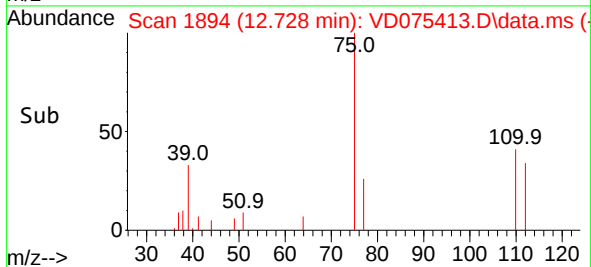
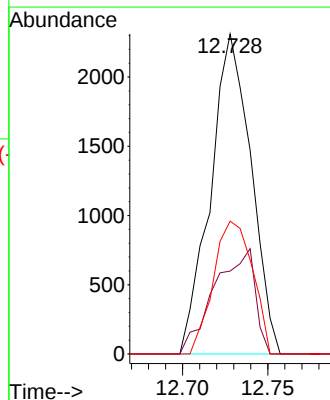
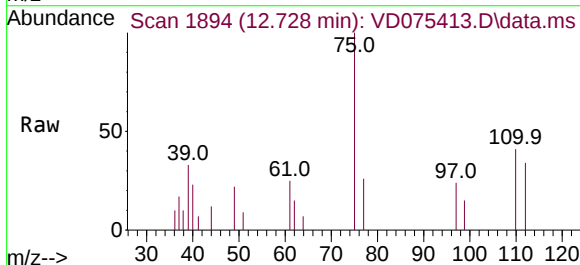
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD005106

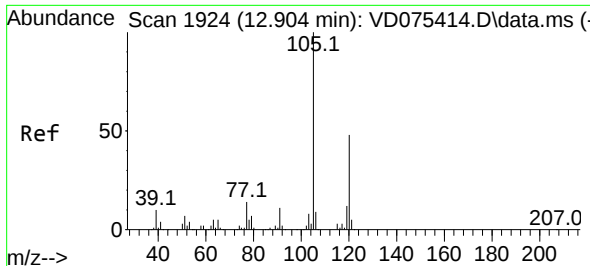
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 29837 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.5  | 20.8  | 31.2  |
| 77        | 17.9  | 12.9  | 19.3  |



#61  
1,2,3-Trichloropropane  
Concen: 5.054 ug/L  
RT: 12.728 min Scan# 1894  
Delta R.T. 0.000 min  
Lab File: VD075413.D  
Acq: 23 Feb 2023 14:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 3821 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 32.9  | 24.6  | 36.8 |
| 110       | 40.1  | 32.4  | 48.6 |

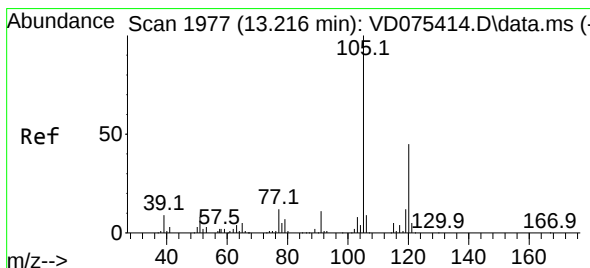
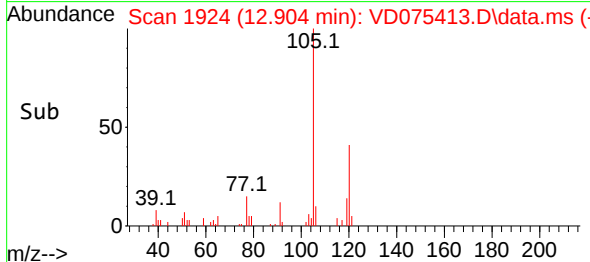
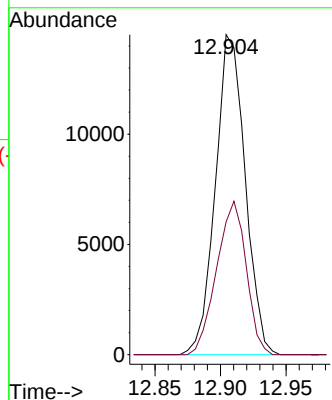
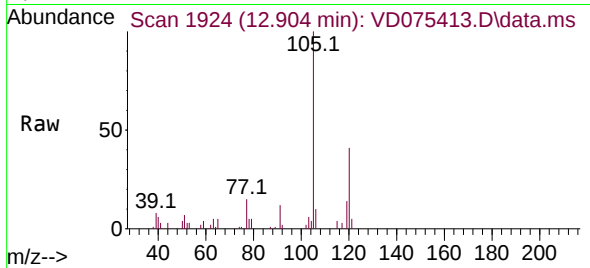




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.546 ug/L  
 RT: 12.904 min Scan# 1924  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

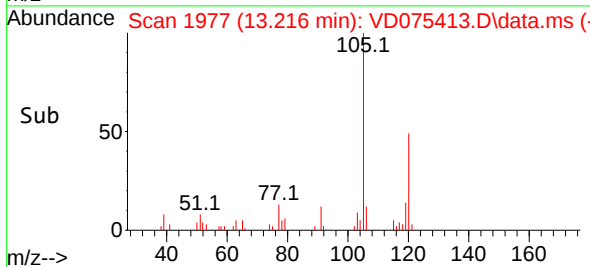
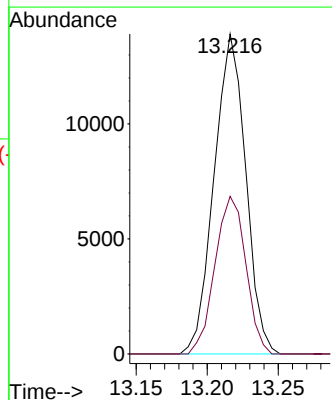
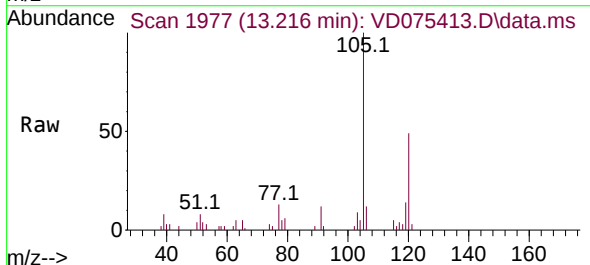
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD005106

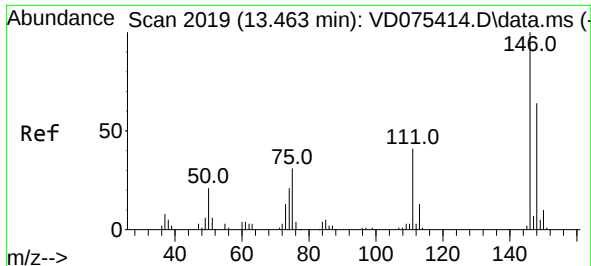
Tgt Ion:105 Resp: 22926  
 Ion Ratio Lower Upper  
 105 100  
 120 47.6 38.6 57.8



#63  
 1,2,4-Trimethylbenzene  
 Concen: 4.427 ug/L  
 RT: 13.216 min Scan# 1977  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

Tgt Ion:105 Resp: 21518  
 Ion Ratio Lower Upper  
 105 100  
 120 48.0 36.3 54.5





#64

1,3-Dichlorobenzene

Concen: 4.984 ug/L

RT: 13.463 min Scan# 2019

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

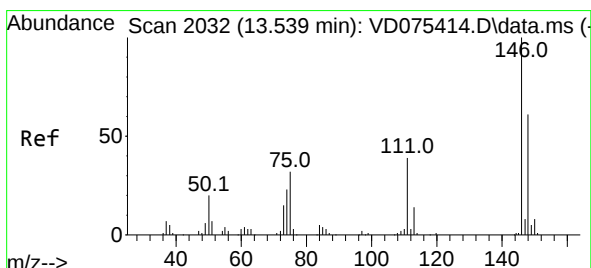
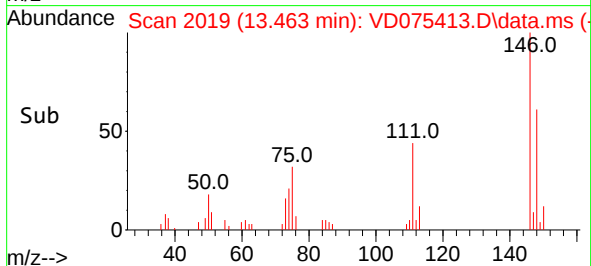
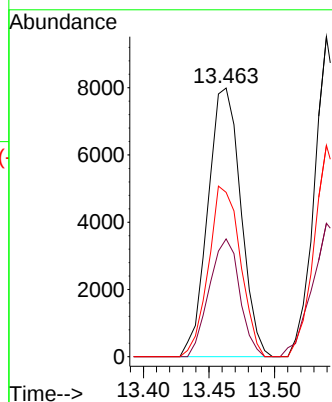
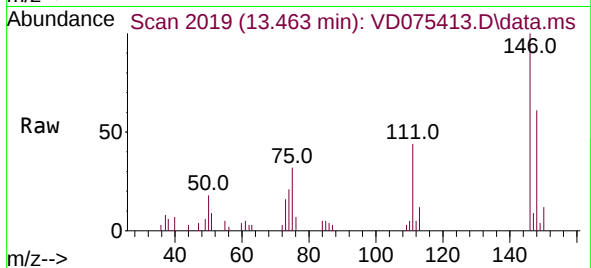
Tgt Ion:146 Resp: 13959

Ion Ratio Lower Upper

146 100

111 43.8 28.8 53.4

148 61.1 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 4.958 ug/L

RT: 13.540 min Scan# 2032

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

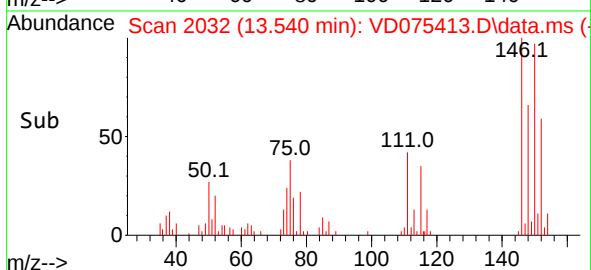
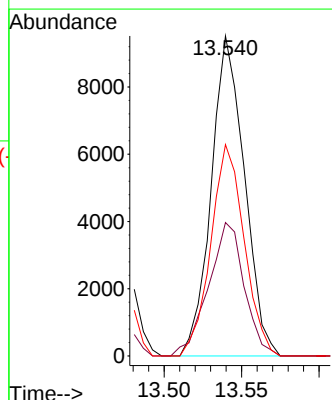
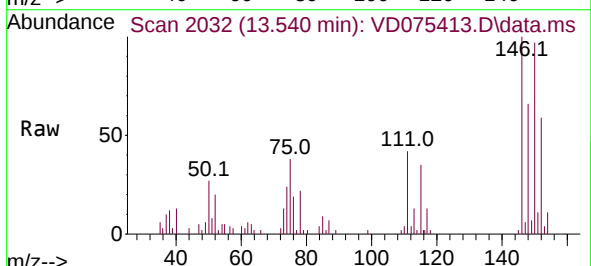
Tgt Ion:146 Resp: 14174

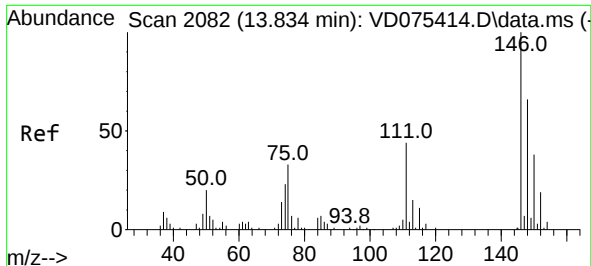
Ion Ratio Lower Upper

146 100

111 41.7 27.9 51.7

148 66.1 43.3 80.5





#67

1,2-Dichlorobenzene

Concen: 4.861 ug/L

RT: 13.834 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

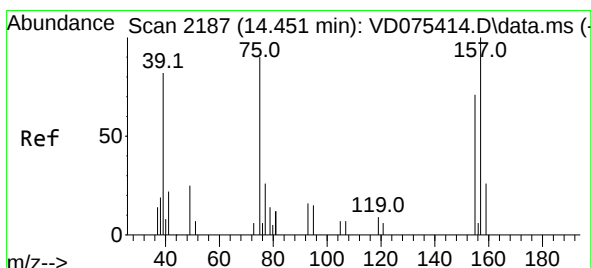
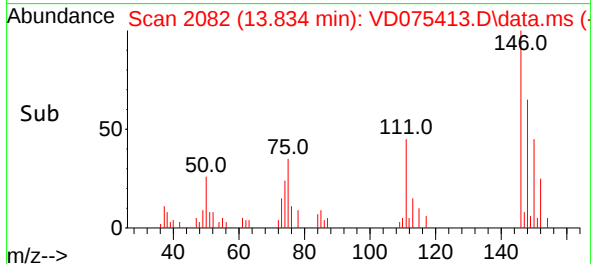
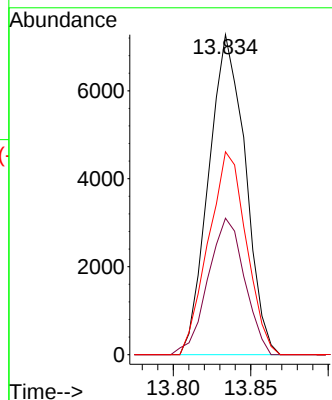
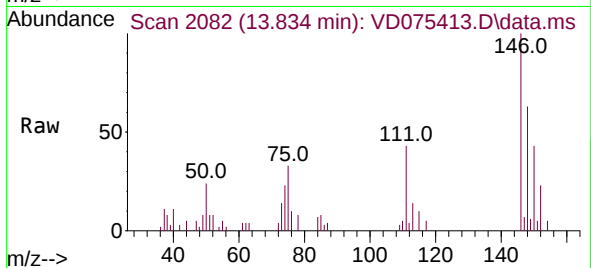
Tgt Ion:146 Resp: 11936

Ion Ratio Lower Upper

146 100

111 42.6 35.0 52.6

148 63.4 52.7 79.1



#68

1,2-Dibromo-3-chloropropane

Concen: 8.900 ug/L

RT: 14.598 min Scan# 2212

Delta R.T. 0.147 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

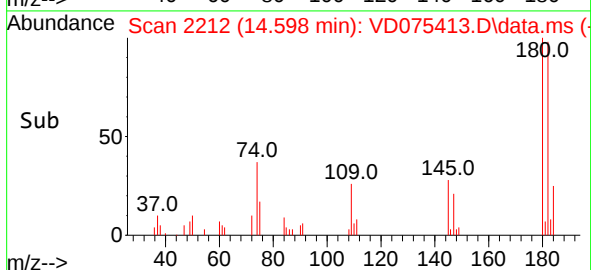
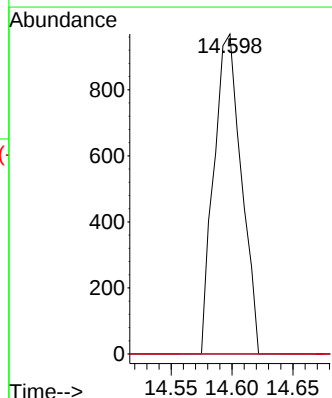
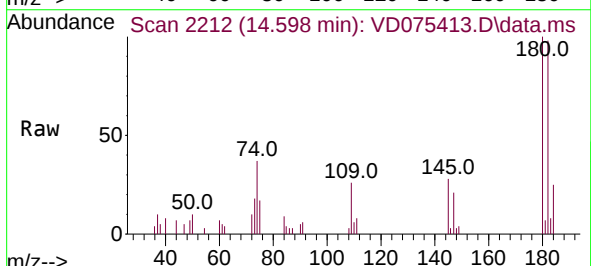
Tgt Ion: 75 Resp: 1516

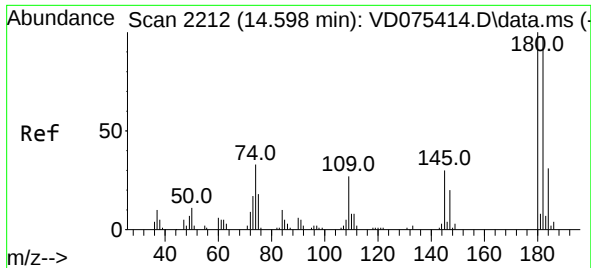
Ion Ratio Lower Upper

75 100

155 0.0 63.1 94.7#

157 0.0 89.2 133.8#

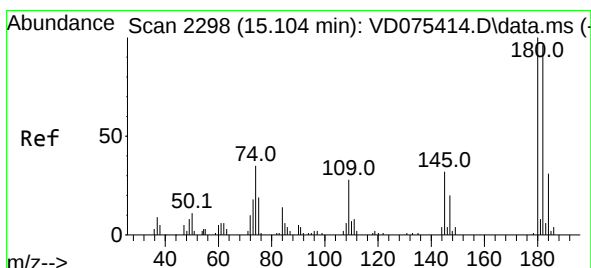
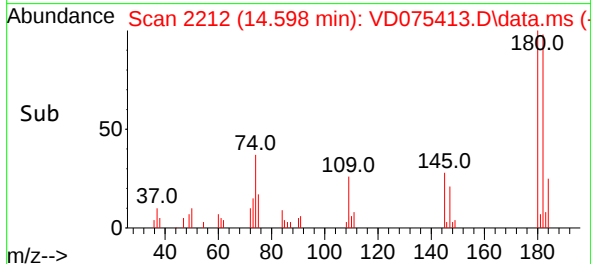
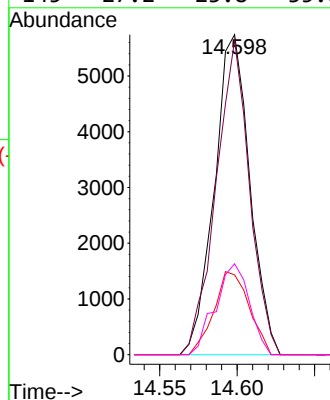
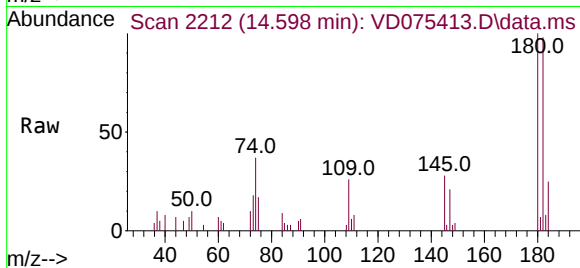




#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.947 ug/L  
 RT: 14.598 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

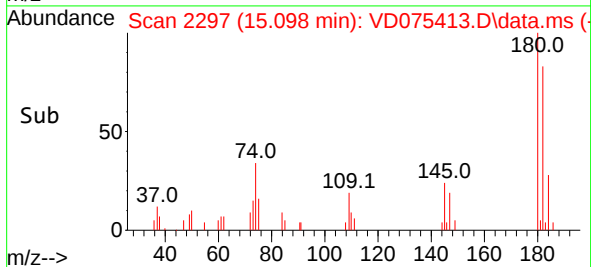
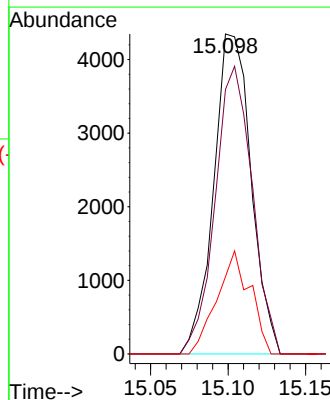
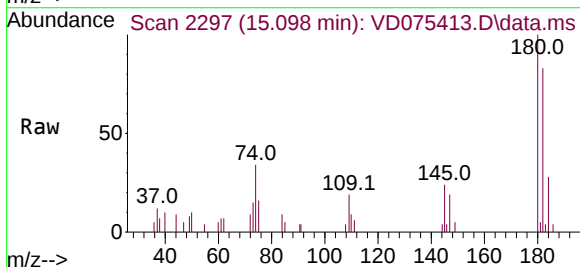
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD005106

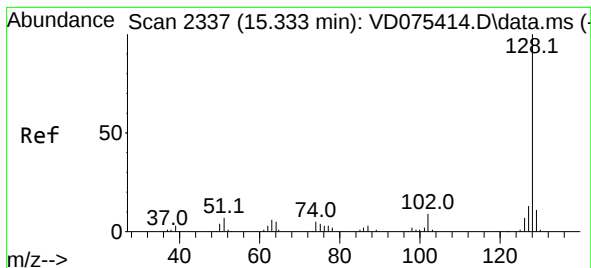
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 9134        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 92.9  | 75.0 112.6  |
| 184         | 25.8  | 23.8 35.6   |
| 145         | 27.2  | 23.8 35.8   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.917 ug/L  
 RT: 15.098 min Scan# 2297  
 Delta R.T. -0.006 min  
 Lab File: VD075413.D  
 Acq: 23 Feb 2023 14:27

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 7304        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 88.9  | 77.1 115.7  |
| 145         | 28.6  | 23.8 35.6   |





#71

Naphthalene

Concen: 4.626 ug/L

RT: 15.334 min Scan# 21

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Instrument :

MSVOA\_D

ClientSampleId :

VSTD005106

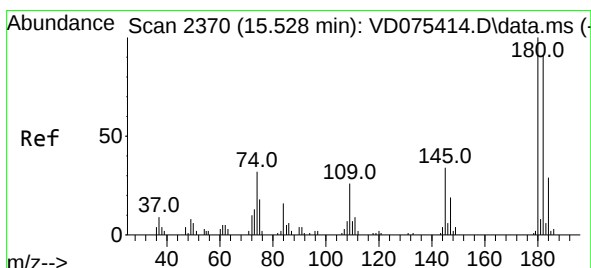
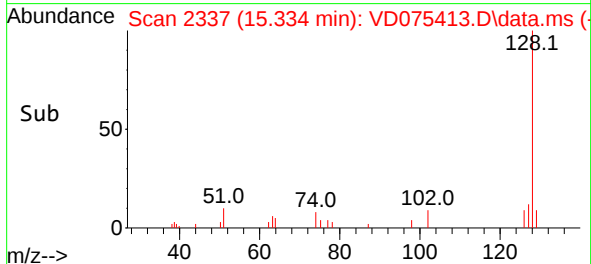
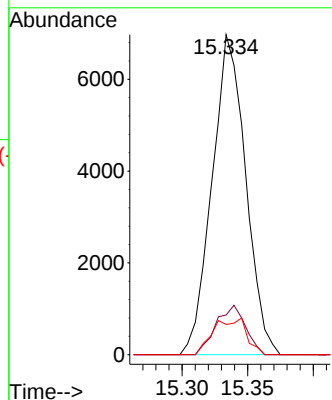
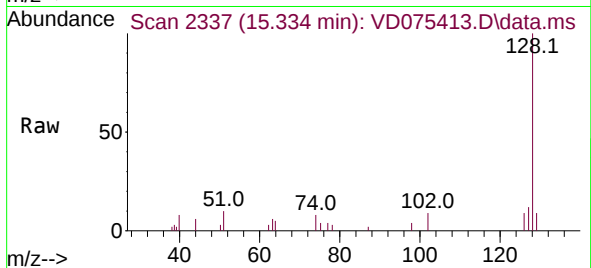
Tgt Ion:128 Resp: 12423

Ion Ratio Lower Upper

128 100

127 13.6 10.6 16.0

129 5.4 8.6 12.8#



#72

1,2,3-Trichlorobenzene

Concen: 4.946 ug/L

RT: 15.528 min Scan# 2370

Delta R.T. 0.000 min

Lab File: VD075413.D

Acq: 23 Feb 2023 14:27

Tgt Ion:180 Resp: 6336

Ion Ratio Lower Upper

180 100

182 91.2 75.4 113.2

145 33.0 26.6 39.8

