

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV092022\  
 Data File : VV027961.D  
 Acq On : 20 Sep 2022 14:07  
 Operator : SY/MD  
 Sample : VSTD20062  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD200262

Quant Time: Sep 21 01:30:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 21 01:28:10 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Difluorobenzene        | 5.609  | 114  | 397526   | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 8.850  | 117  | 389737   | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.246 | 152  | 230579   | 50.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) Vinyl Chloride-d3          | 1.301  | 65   | 687089   | 240.576 | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.548  | 69   | 514435   | 243.701 | ug/L  | -0.01    |
| 11) 1,1-Dichloroethene-d2     | 2.098  | 63   | 1215629  | 233.837 | ug/L  | 0.00     |
| 21) 2-Butanone-d5             | 3.860  | 46   | 1006703  | 432.728 | ug/L  | 0.00     |
| 24) Chloroform-d              | 4.336  | 84   | 1192555  | 212.403 | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.021  | 65   | 768813   | 218.823 | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.040  | 84   | 2349216  | 239.854 | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.063  | 67   | 744802   | 220.715 | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.310  | 98   | 2163897  | 259.181 | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.616  | 79   | 386815   | 257.266 | ug/L  | 0.00     |
| 47) 2-Hexanone-d5             | 8.082  | 63   | 809875   | 501.043 | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.210 | 84   | 996466   | 184.883 | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.622 | 152  | 905772   | 222.470 | ug/L  | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.124  | 85   | 549898   | 161.508 | ug/L  | 100      |
| 3) Chloromethane              | 1.237  | 50   | 657562   | 168.900 | ug/L  | 99       |
| 5) Vinyl chloride             | 1.304  | 62   | 674513   | 172.418 | ug/L  | 99       |
| 6) Bromomethane               | 1.497  | 94   | 448352   | 229.028 | ug/L  | 99       |
| 8) Chloroethane               | 1.568  | 64   | 425142   | 193.146 | ug/L  | 99       |
| 9) Trichlorofluoromethane     | 1.741  | 101  | 979600   | 189.537 | ug/L  | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.105  | 101  | 537840   | 188.745 | ug/L  | 98       |
| 12) 1,1-Dichloroethene        | 2.108  | 96   | 542409   | 196.444 | ug/L  | 88       |
| 13) Acetone                   | 2.153  | 43   | 645634   | 355.908 | ug/L  | 99       |
| 14) Carbon disulfide          | 2.282  | 76   | 1439221  | 160.285 | ug/L  | 99       |
| 15) Methyl Acetate            | 2.420  | 43   | 625709   | 156.021 | ug/L  | 99       |
| 16) Methylene chloride        | 2.497  | 84   | 576128   | 161.887 | ug/L  | 99       |
| 17) trans-1,2-Dichloroethene  | 2.748  | 96   | 516773   | 174.177 | ug/L  | 96       |
| 18) Methyl tert-butyl Ether   | 2.761  | 73   | 1730136  | 194.658 | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.179  | 63   | 981122   | 166.171 | ug/L  | 100      |
| 20) cis-1,2-Dichloroethene    | 3.899  | 96   | 627737   | 202.222 | ug/L  | 92       |
| 22) 2-Butanone                | 3.944  | 43   | 1035883  | 429.364 | ug/L  | 99       |
| 23) Bromochloromethane        | 4.233  | 128  | 320615   | 184.767 | ug/L  | 95       |
| 25) Chloroform                | 4.362  | 83   | 1094616  | 181.098 | ug/L  | 99       |
| 27) 1,2-Dichloroethane        | 5.121  | 62   | 863970   | 182.700 | ug/L  | 100      |
| 29) Cyclohexane               | 4.667  | 56   | 947301   | 212.196 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.597  | 97   | 954889   | 187.053 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.818  | 117  | 828744   | 186.203 | ug/L  | 99       |
| 33) Benzene                   | 5.088  | 78   | 2340688  | 190.327 | ug/L  | 100      |
| 34) Trichloroethene           | 5.905  | 95   | 576434   | 184.512 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.124  | 83   | 969766   | 208.837 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.166  | 63   | 622327   | 182.470 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.500  | 83   | 836882   | 185.470 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.021  | 75   | 977051   | 212.597 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 1979397  | 413.737 | ug/L  | 99       |
| 42) Toluene                   | 7.381  | 91   | 2503576  | 201.779 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 7.645  | 75   | 1006568  | 221.675 | ug/L  | 98       |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD200262

Quant Time: Sep 21 01:30:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM092022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 21 01:28:10 2022  
 Response via : Initial Calibration

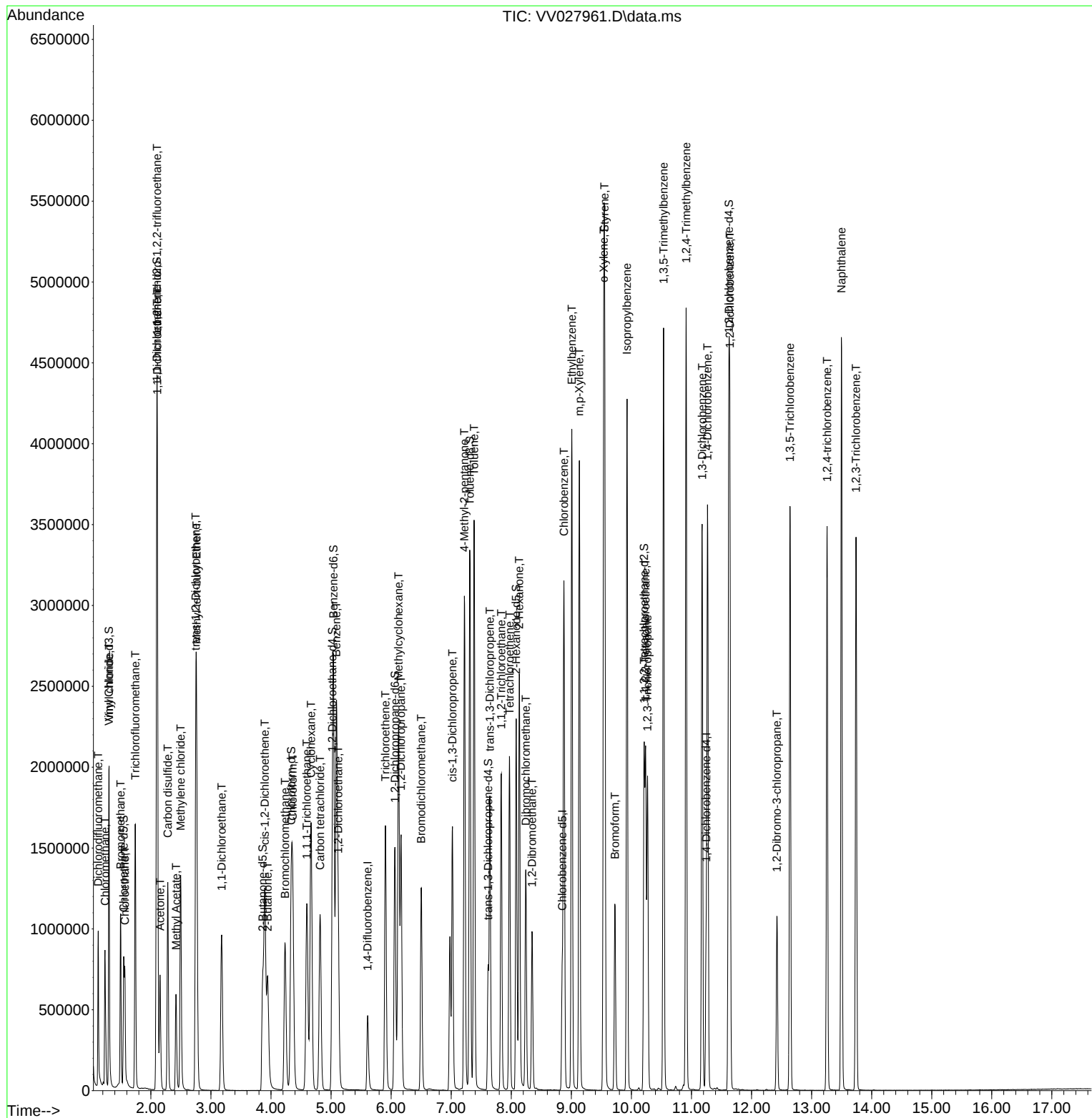
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 45) 1,1,2-Trichloroethane     | 7.834  | 97   | 593071   | 179.509 | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.973  | 164  | 458591   | 196.616 | ug/L  | 100      |
| 48) 2-Hexanone                | 8.133  | 43   | 1544194  | 401.689 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.243  | 129  | 672920   | 191.826 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.346  | 107  | 628549   | 185.994 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.876  | 112  | 1614832  | 192.263 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.008  | 91   | 2771835  | 213.040 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.133  | 106  | 1067107  | 216.732 | ug/L  | 97       |
| 54) o-Xylene                  | 9.538  | 106  | 1026766  | 213.911 | ug/L  | 98       |
| 55) Styrene                   | 9.555  | 104  | 1806821  | 215.227 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.236 | 83   | 968593   | 174.068 | ug/L  | 100      |
| 59) Bromoform                 | 9.725  | 173  | 511903   | 188.030 | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.928  | 105  | 2690409  | 188.348 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.268 | 75   | 774283   | 150.922 | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.535 | 105  | 2415217  | 203.990 | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.911 | 105  | 2482639  | 213.078 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.178 | 146  | 1361702  | 195.160 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.268 | 146  | 1377486  | 188.262 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.638 | 146  | 1375424  | 190.156 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.423 | 75   | 272196   | 187.270 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.641 | 180  | 1086414  | 224.592 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.259 | 180  | 1012860  | 247.209 | ug/L  | 99       |
| 71) Naphthalene               | 13.497 | 128  | 3432327  | 248.009 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.741 | 180  | 1014572  | 229.403 | ug/L  | 100      |

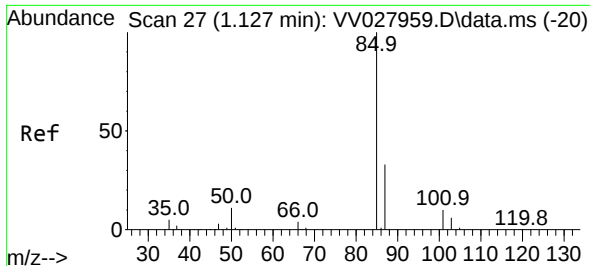
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 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 21 01:28:10 2022  
 Response via : Initial Calibration

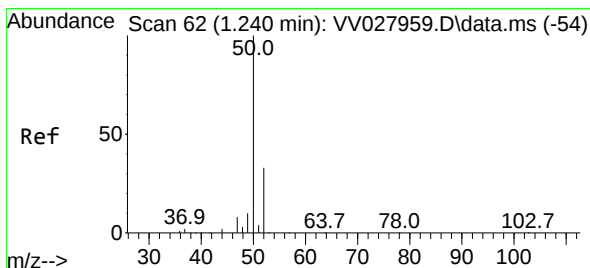
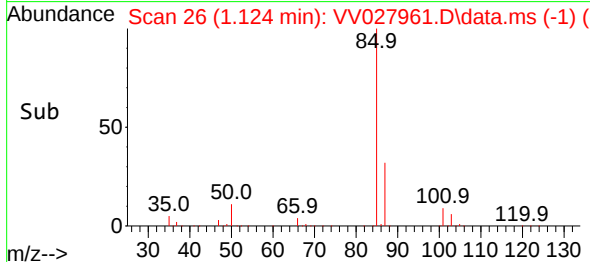
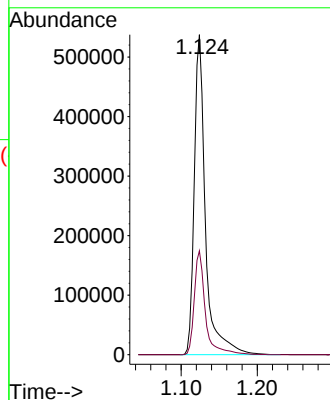
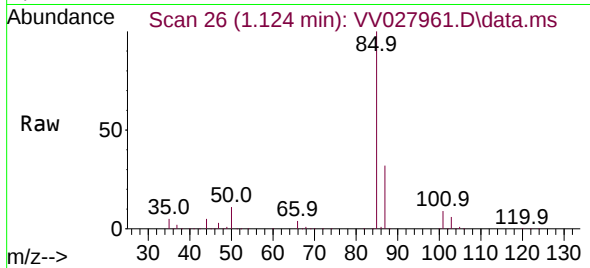




#2  
 Dichlorodifluoromethane  
 Concen: 161.508 ug/L  
 RT: 1.124 min Scan# 20  
 Delta R.T. -0.003 min  
 Lab File: VV027961.D  
 Acq: 20 Sep 2022 14:07

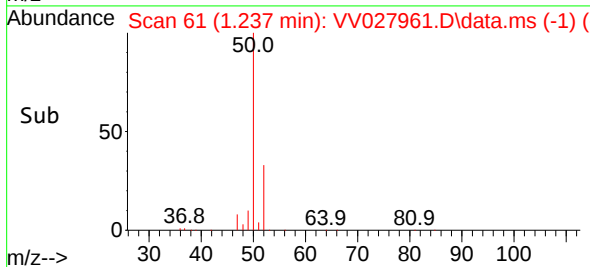
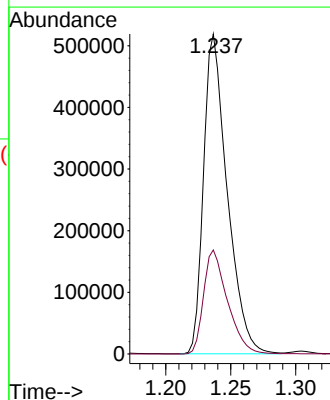
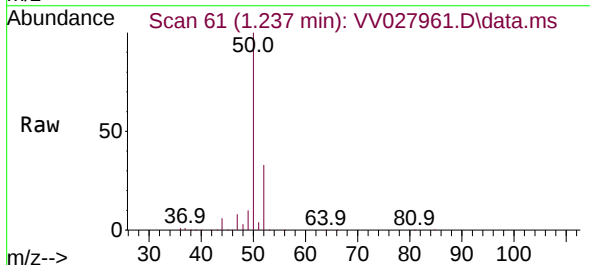
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD200262

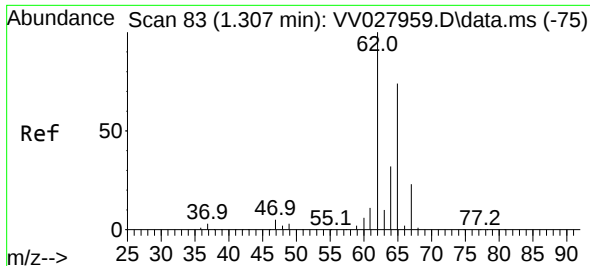
Tgt Ion: 85 Resp: 549898  
 Ion Ratio Lower Upper  
 85 100  
 87 32.2 25.8 38.8



#3  
 Chloromethane  
 Concen: 168.900 ug/L  
 RT: 1.237 min Scan# 61  
 Delta R.T. -0.003 min  
 Lab File: VV027961.D  
 Acq: 20 Sep 2022 14:07

Tgt Ion: 50 Resp: 657562  
 Ion Ratio Lower Upper  
 50 100  
 52 32.5 23.2 43.0

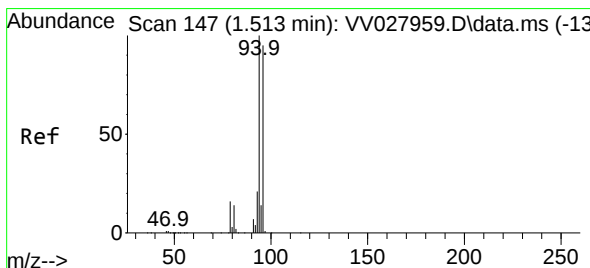
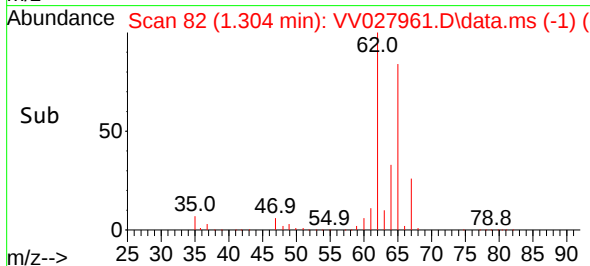
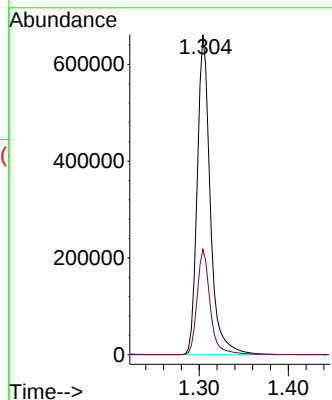
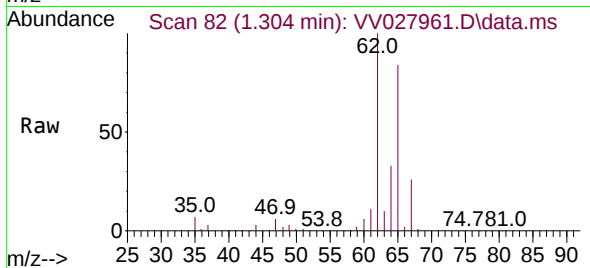




#5  
 Vinyl chloride  
 Concen: 172.418 ug/L  
 RT: 1.304 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VV027961.D  
 Acq: 20 Sep 2022 14:07

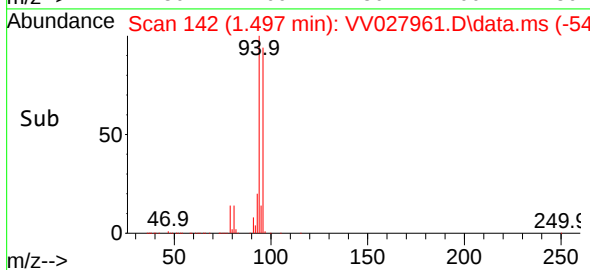
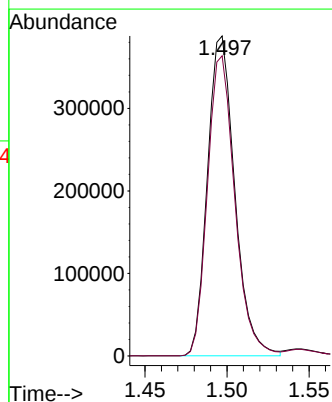
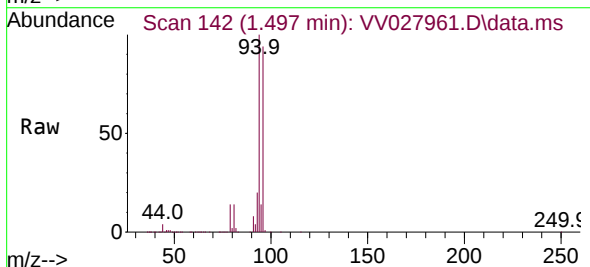
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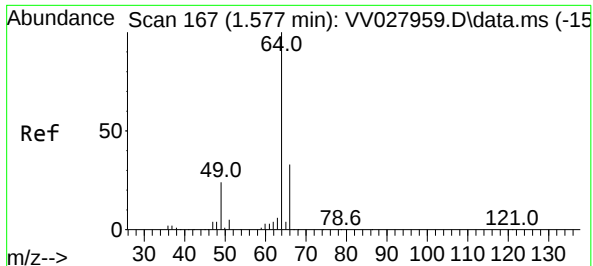
Tgt Ion: 62 Resp: 674513  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 22.7 42.3



#6  
 Bromomethane  
 Concen: 229.028 ug/L  
 RT: 1.497 min Scan# 142  
 Delta R.T. -0.016 min  
 Lab File: VV027961.D  
 Acq: 20 Sep 2022 14:07

Tgt Ion: 94 Resp: 448352  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 66.4 123.2

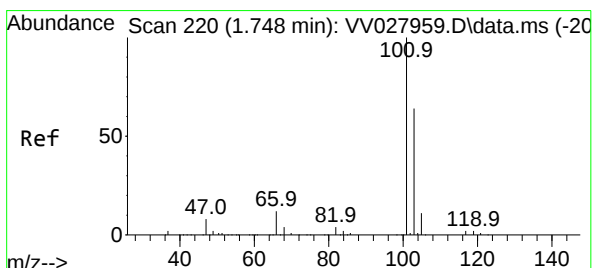
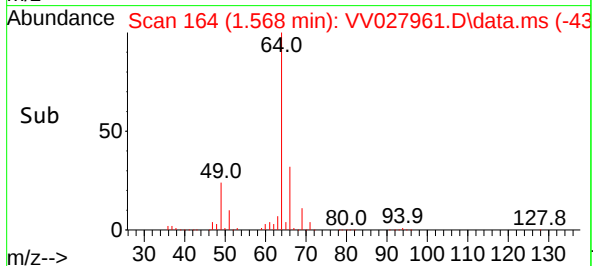
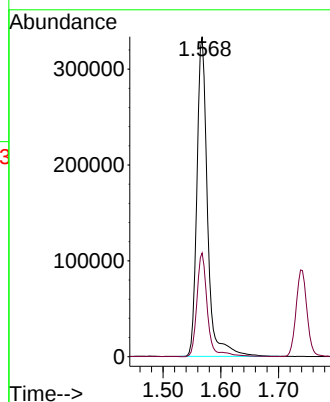
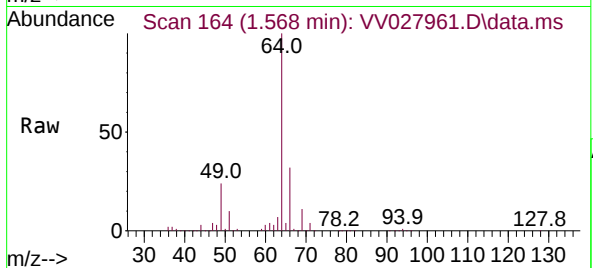




#8  
Chloroethane  
Concen: 193.146 ug/L  
RT: 1.568 min Scan# 1  
Delta R.T. -0.010 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

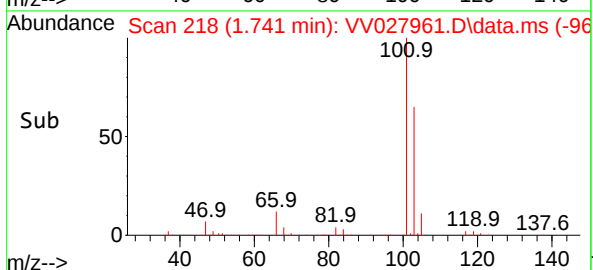
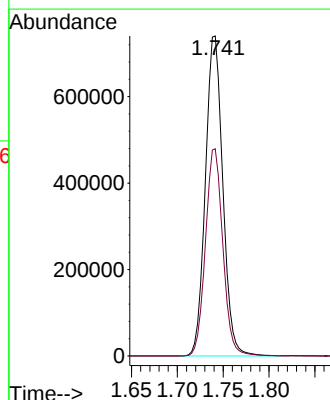
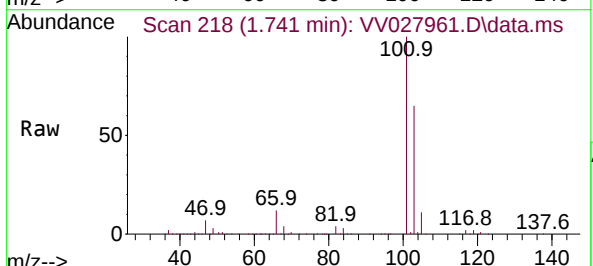
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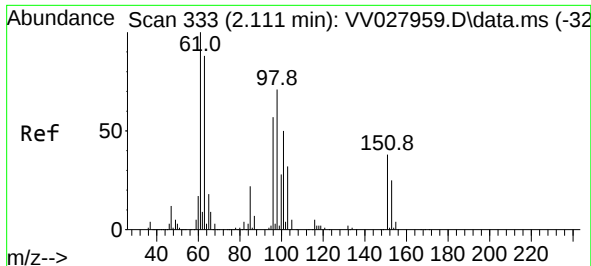
Tgt Ion: 64 Resp: 425142  
Ion Ratio Lower Upper  
64 100  
66 32.4 23.2 43.2



#9  
Trichlorofluoromethane  
Concen: 189.537 ug/L  
RT: 1.741 min Scan# 218  
Delta R.T. -0.006 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion:101 Resp: 979600  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.3 76.9





#10

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

Concen: 188.745 ug/L

RT: 2.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

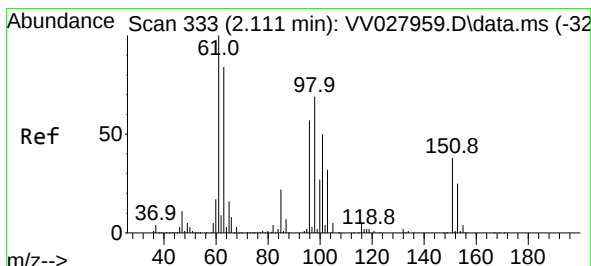
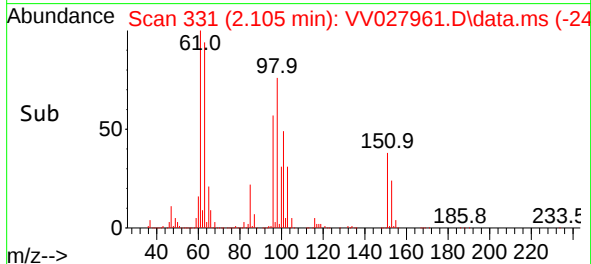
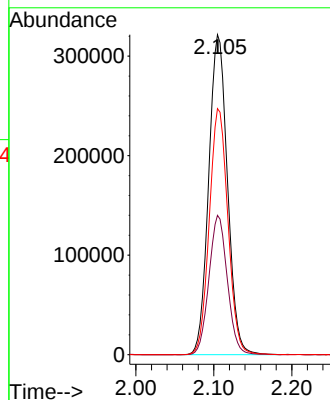
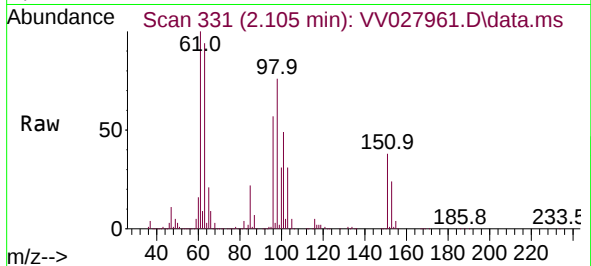
Tgt Ion:101 Resp: 537840

Ion Ratio Lower Upper

101 100

85 42.6 35.6 53.4

151 76.5 62.2 93.4



#12

1,1-Dichloroethene

Concen: 196.444 ug/L

RT: 2.108 min Scan# 332

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

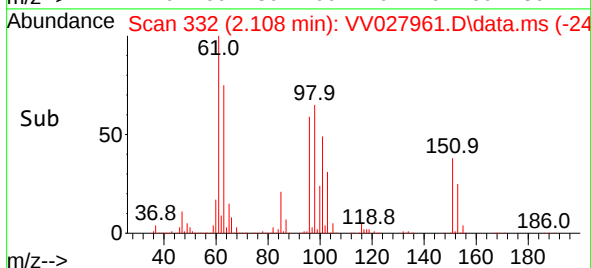
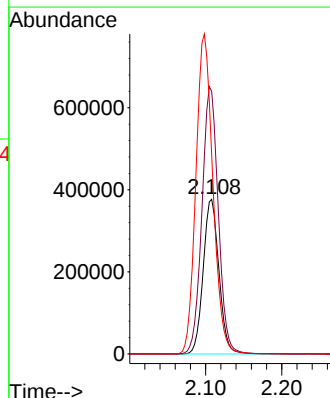
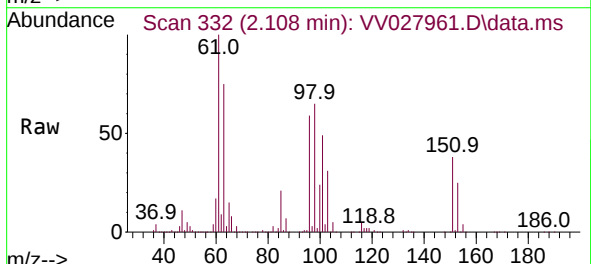
Tgt Ion: 96 Resp: 542409

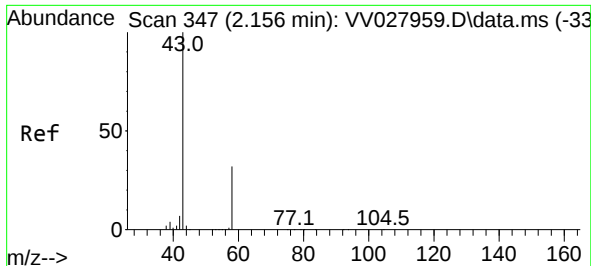
Ion Ratio Lower Upper

96 100

61 169.6 123.7 229.7

63 128.1 108.6 201.6





#13

Acetone

Concen: 355.908 ug/L

RT: 2.153 min Scan# 34

Delta R.T. -0.003 min

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MSVOA\_V

ClientSampleId :

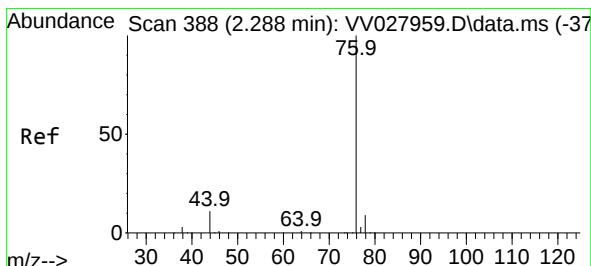
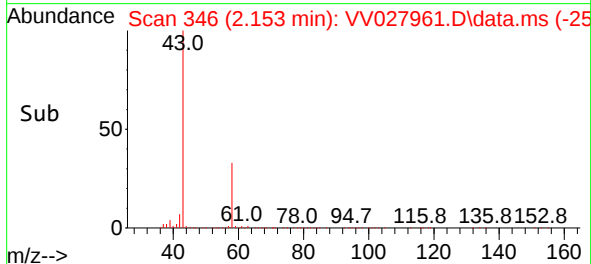
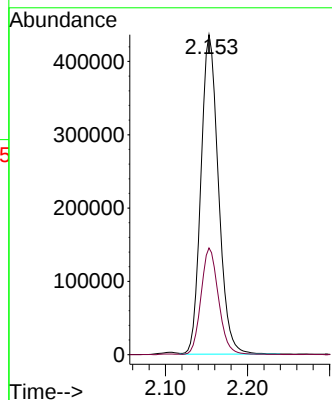
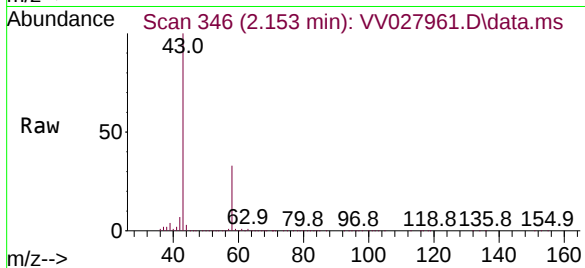
VSTD200262

Tgt Ion: 43 Resp: 645634

Ion Ratio Lower Upper

43 100

58 33.5 0.0 66.2



#14

Carbon disulfide

Concen: 160.285 ug/L

RT: 2.282 min Scan# 386

Delta R.T. -0.006 min

Lab File: VV027961.D

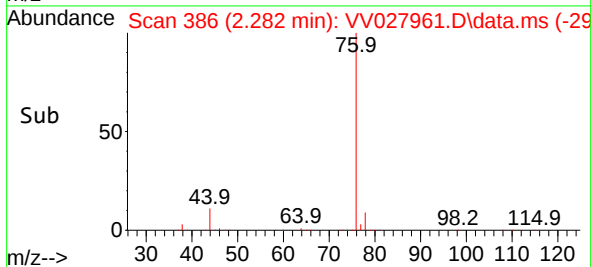
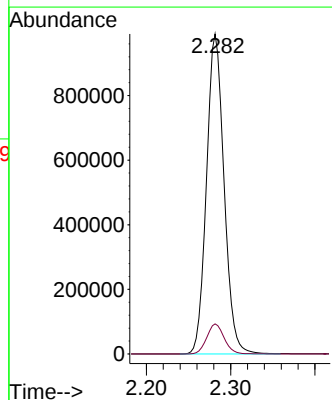
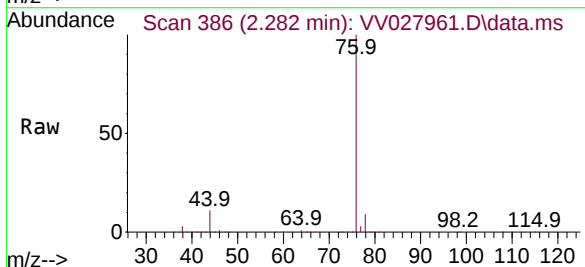
Acq: 20 Sep 2022 14:07

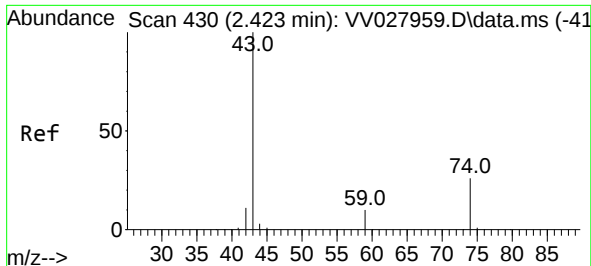
Tgt Ion: 76 Resp: 1439221

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8

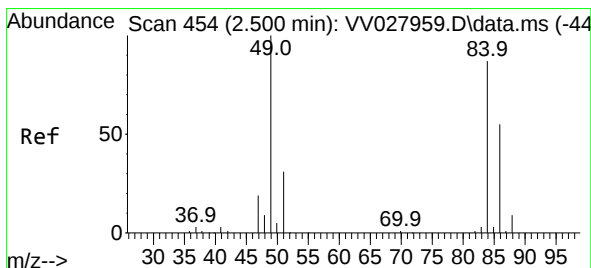
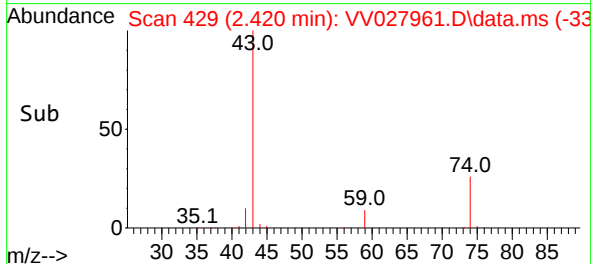
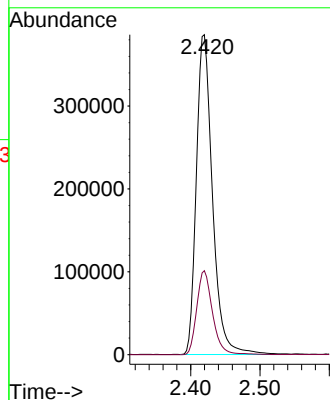
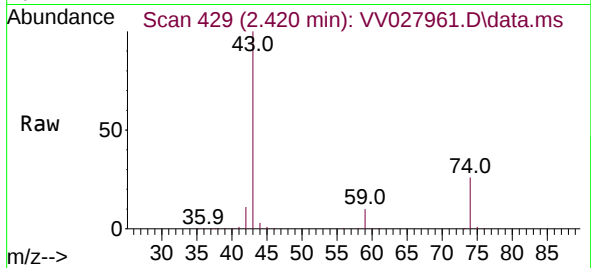




#15  
Methyl Acetate  
Concen: 156.021 ug/L  
RT: 2.420 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

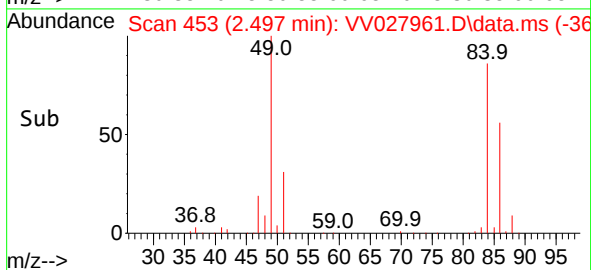
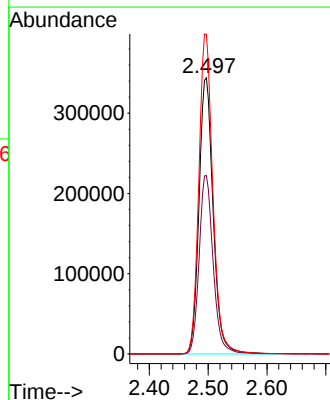
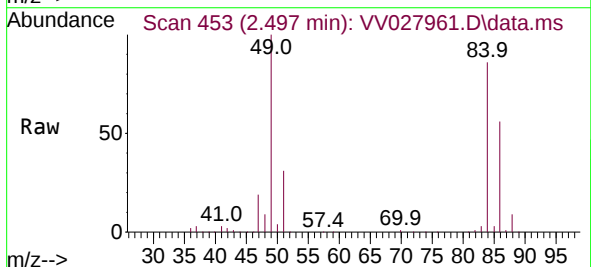
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

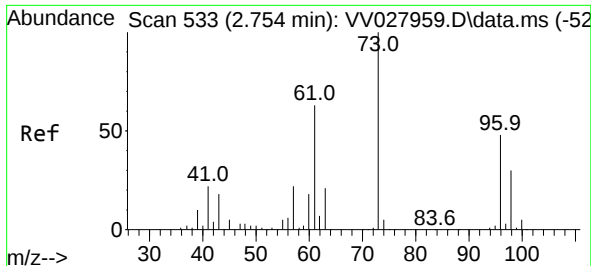
Tgt Ion: 43 Resp: 625709  
Ion Ratio Lower Upper  
43 100  
74 25.7 20.9 31.3



#16  
Methylene chloride  
Concen: 161.887 ug/L  
RT: 2.497 min Scan# 453  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 84 Resp: 576128  
Ion Ratio Lower Upper  
84 100  
86 64.6 44.2 82.2  
49 115.7 80.8 150.0

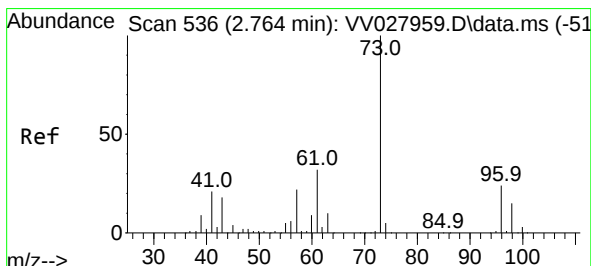
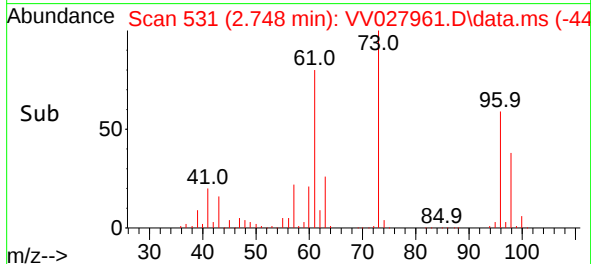
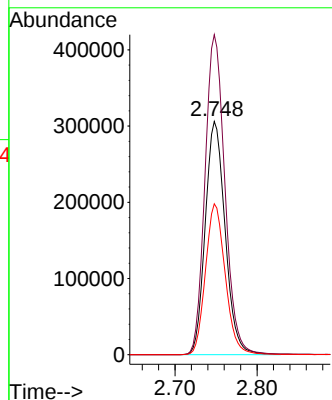
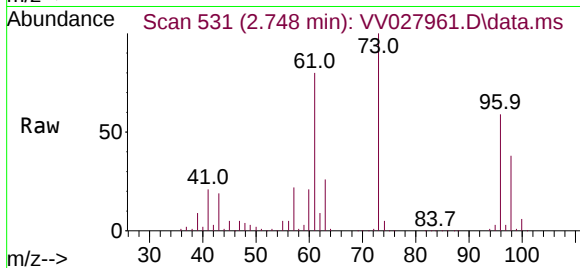




#17  
trans-1,2-Dichloroethene  
Concen: 174.177 ug/L  
RT: 2.748 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

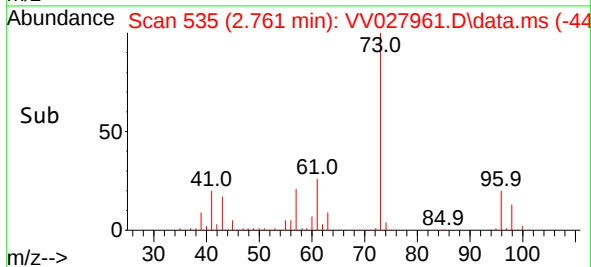
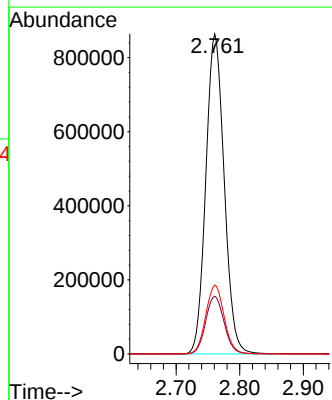
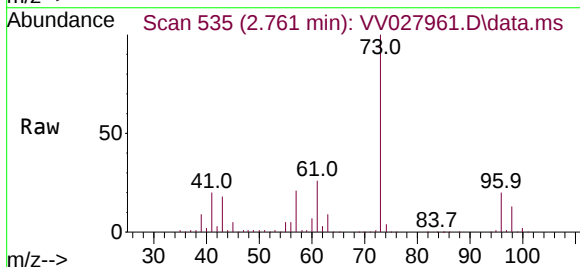
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

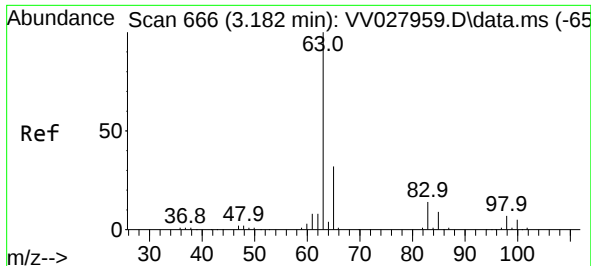
Tgt Ion: 96 Resp: 516773  
Ion Ratio Lower Upper  
96 100  
61 137.2 92.3 171.5  
98 64.7 44.1 81.9



#18  
Methyl tert-butyl Ether  
Concen: 194.658 ug/L  
RT: 2.761 min Scan# 535  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 73 Resp: 1730136  
Ion Ratio Lower Upper  
73 100  
43 18.1 14.5 21.7  
57 21.6 17.4 26.0





#19

1,1-Dichloroethane

Concen: 166.171 ug/L

RT: 3.179 min Scan# 6

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

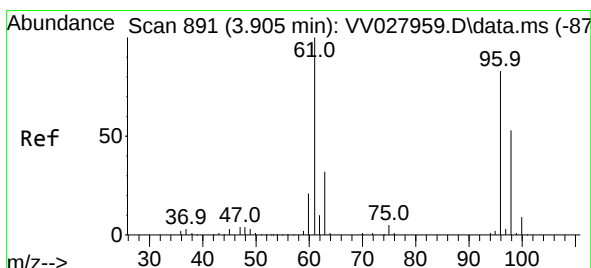
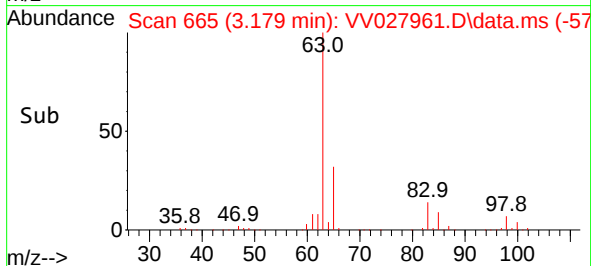
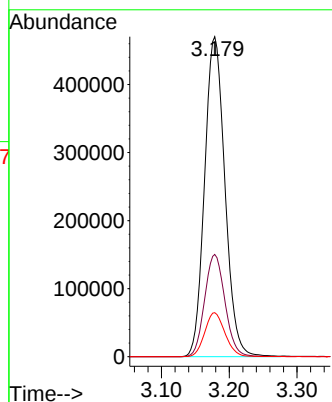
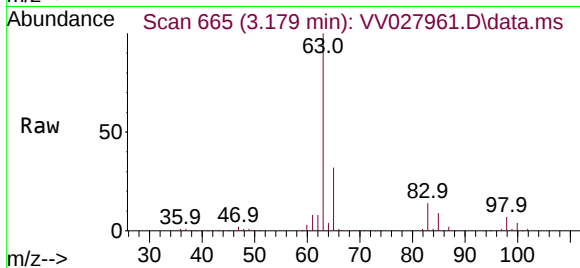
Tgt Ion: 63 Resp: 981122

Ion Ratio Lower Upper

63 100

65 31.9 22.5 41.7

83 13.7 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 202.222 ug/L

RT: 3.899 min Scan# 889

Delta R.T. -0.006 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

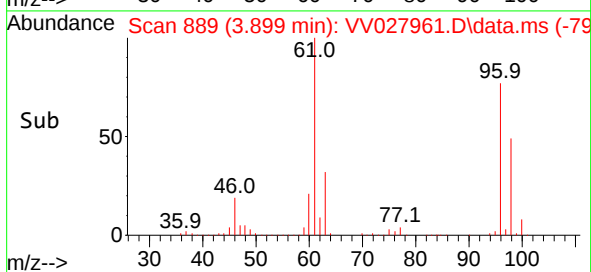
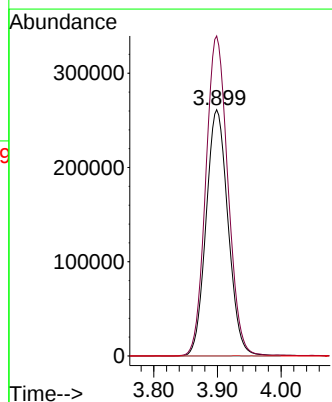
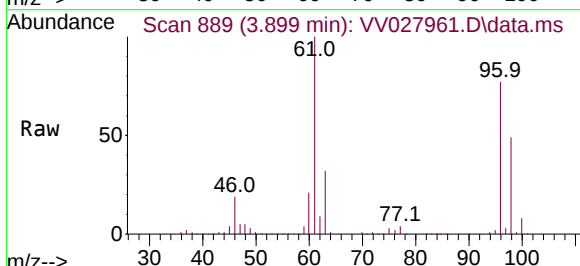
Tgt Ion: 96 Resp: 627737

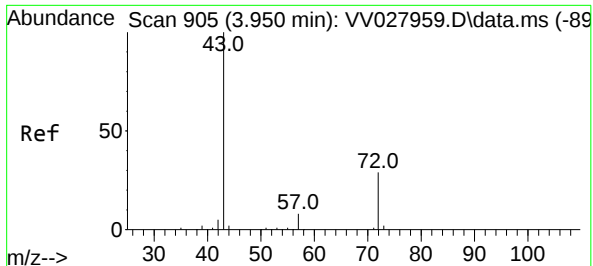
Ion Ratio Lower Upper

96 100

61 130.0 84.4 156.8

68 0.0 0.0 0.0

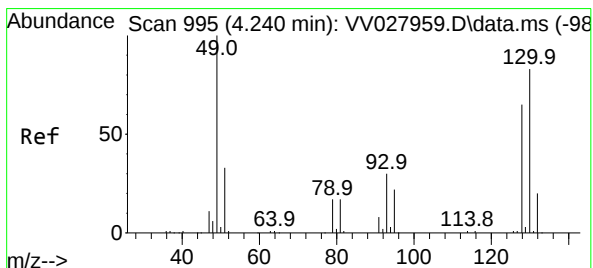
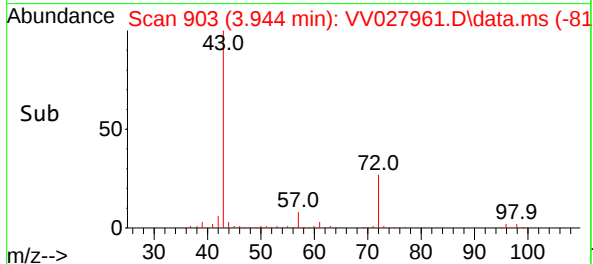
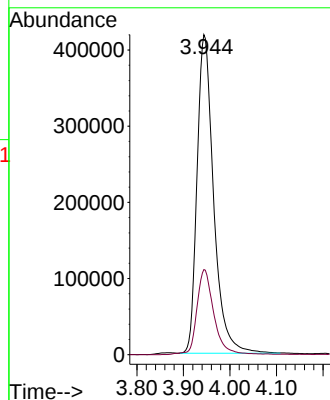
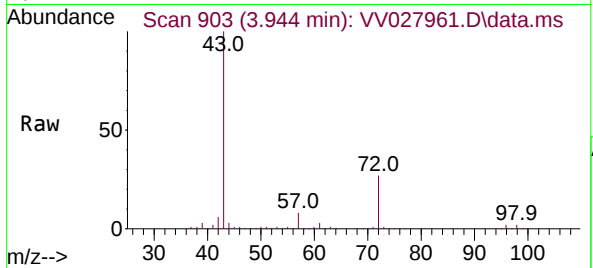




#22  
2-Butanone  
Concen: 429.364 ug/L  
RT: 3.944 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

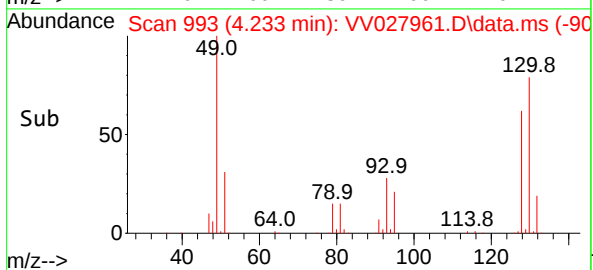
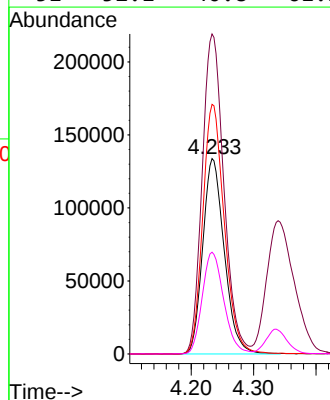
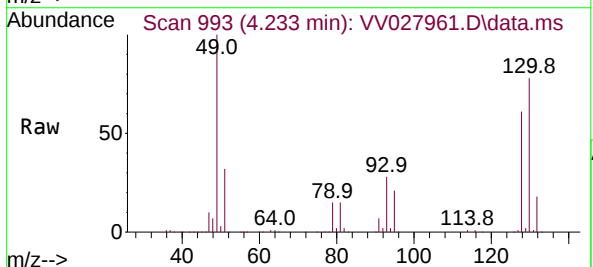
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

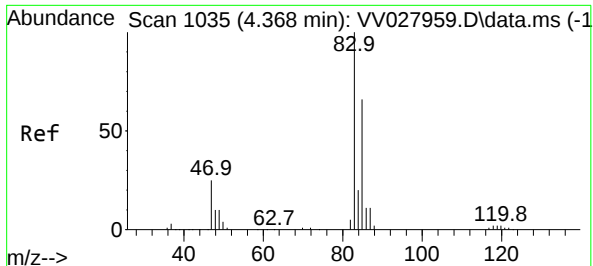
Tgt Ion: 43 Resp: 1035883  
Ion Ratio Lower Upper  
43 100  
72 27.3 13.5 40.4



#23  
Bromochloromethane  
Concen: 184.767 ug/L  
RT: 4.233 min Scan# 993  
Delta R.T. -0.006 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion:128 Resp: 320615  
Ion Ratio Lower Upper  
128 100  
49 163.7 107.0 198.6  
130 127.7 88.3 164.1  
51 52.1 40.8 61.2





#25

Chloroform

Concen: 181.098 ug/L

RT: 4.362 min Scan# 1035

Delta R.T. -0.006 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

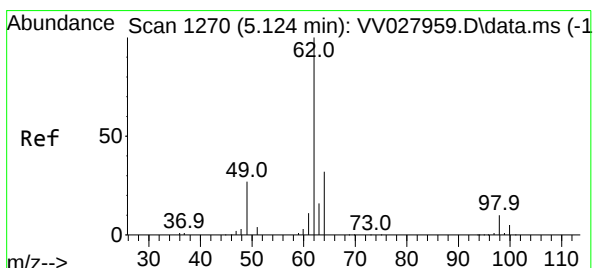
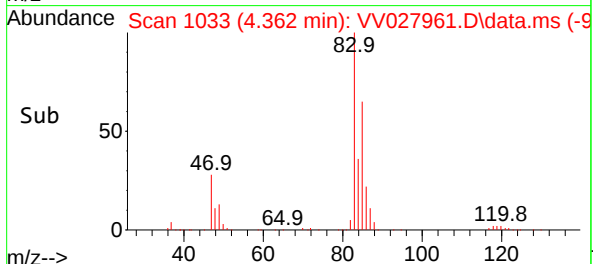
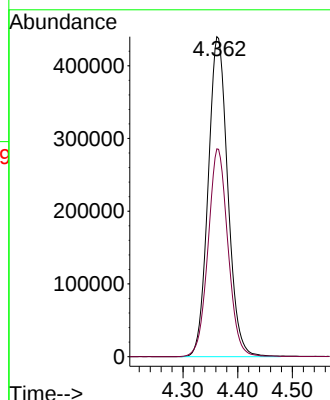
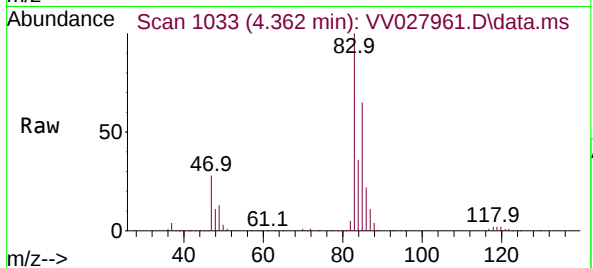
VSTD200262

Tgt Ion: 83 Resp: 1094616

Ion Ratio Lower Upper

83 100

85 65.0 46.3 85.9



#27

1,2-Dichloroethane

Concen: 182.700 ug/L

RT: 5.121 min Scan# 1269

Delta R.T. -0.003 min

Lab File: VV027961.D

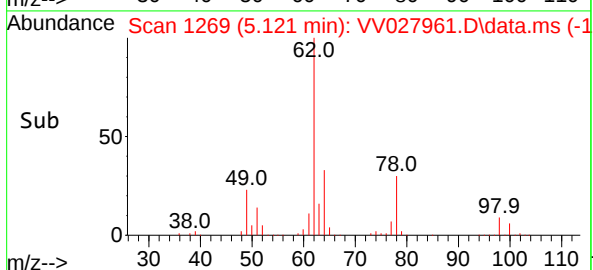
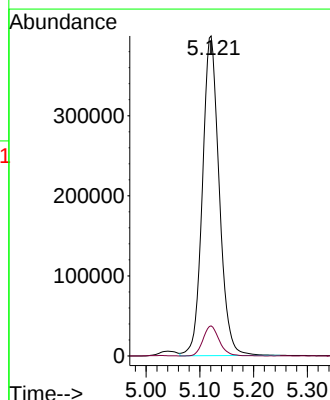
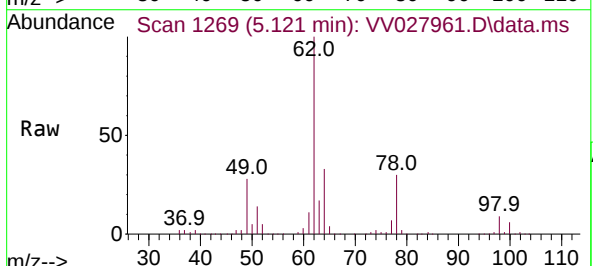
Acq: 20 Sep 2022 14:07

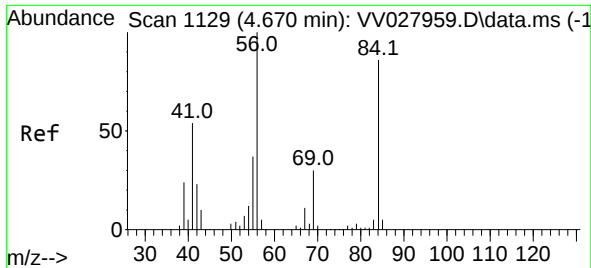
Tgt Ion: 62 Resp: 863970

Ion Ratio Lower Upper

62 100

98 9.4 7.6 11.4

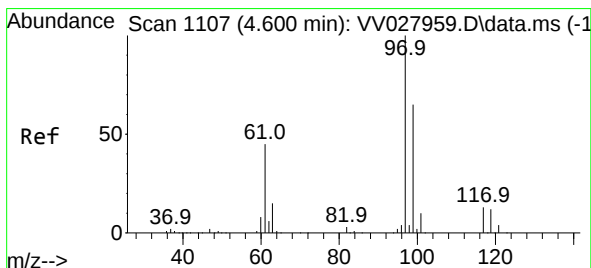
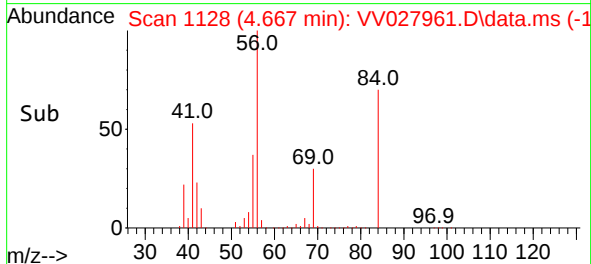
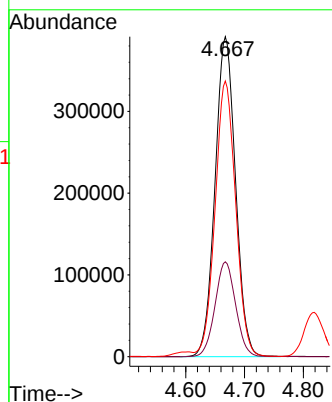
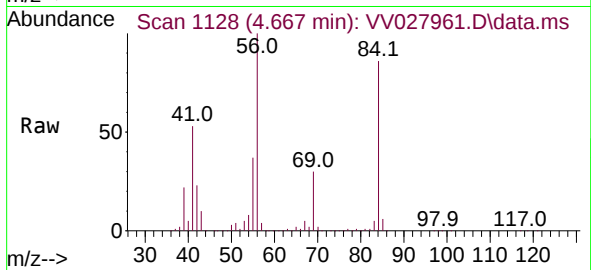




#29  
Cyclohexane  
Concen: 212.196 ug/L  
RT: 4.667 min Scan# 1128  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

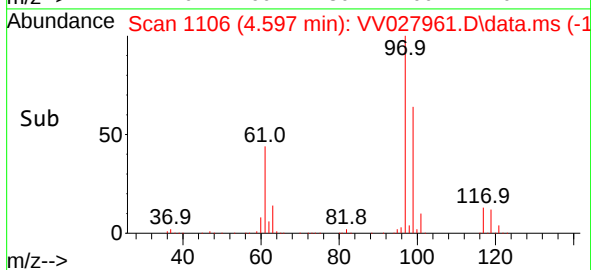
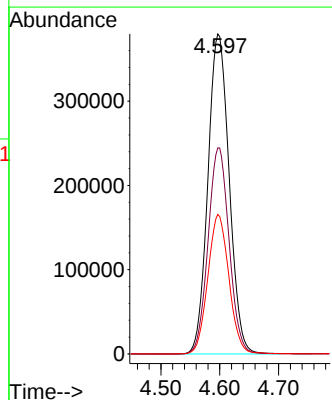
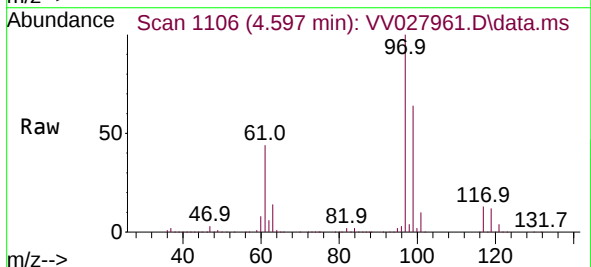
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MSVOA\_V  
ClientSampleId :  
VSTD200262

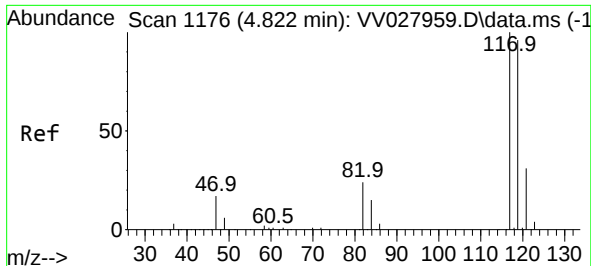
Tgt Ion: 56 Resp: 947301  
Ion Ratio Lower Upper  
56 100  
69 29.8 24.6 36.8  
84 86.5 69.0 103.6



#30  
1,1,1-Trichloroethane  
Concen: 187.053 ug/L  
RT: 4.597 min Scan# 1106  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 97 Resp: 954889  
Ion Ratio Lower Upper  
97 100  
99 63.7 51.4 77.0  
61 43.3 35.2 52.8

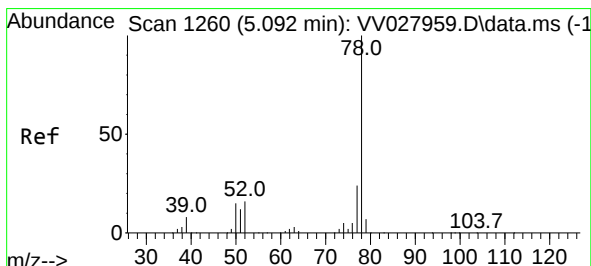
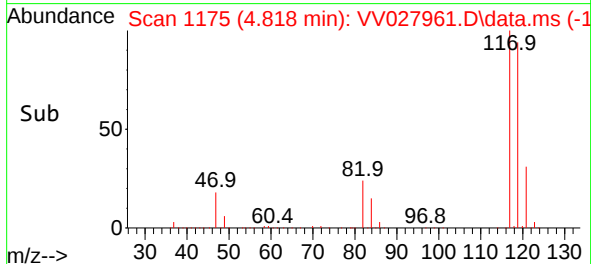
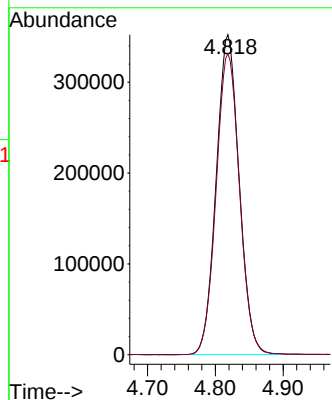
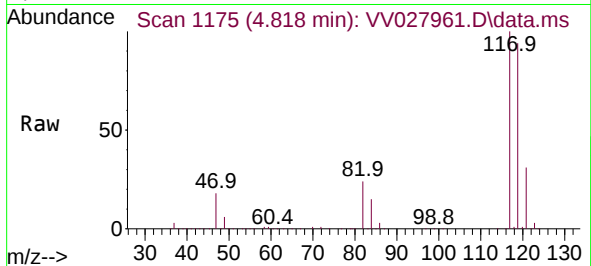




#31  
Carbon tetrachloride  
Concen: 186.203 ug/L  
RT: 4.818 min Scan# 1175  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

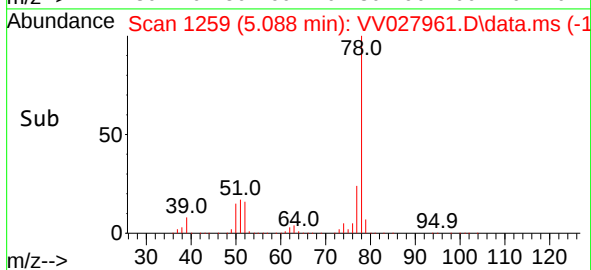
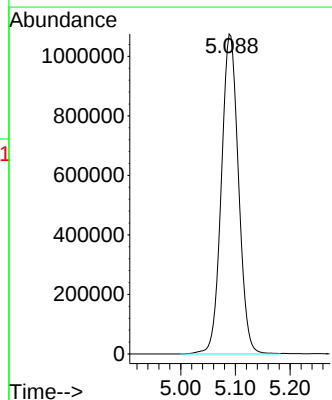
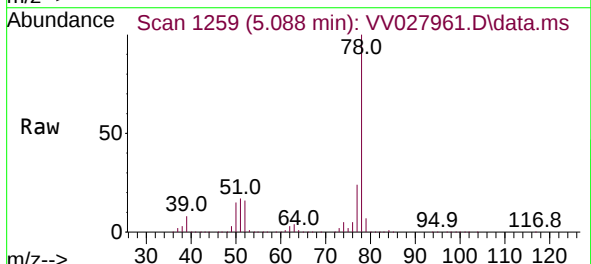
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

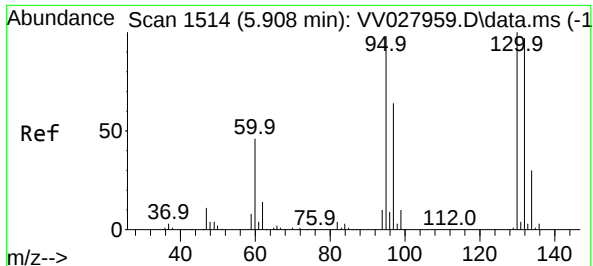
Tgt Ion:117 Resp: 828744  
Ion Ratio Lower Upper  
117 100  
119 95.9 75.6 113.4



#33  
Benzene  
Concen: 190.327 ug/L  
RT: 5.088 min Scan# 1259  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 78 Resp: 2340688

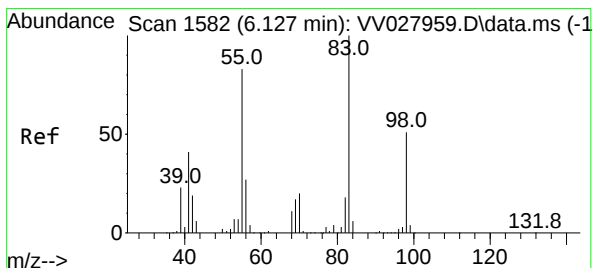
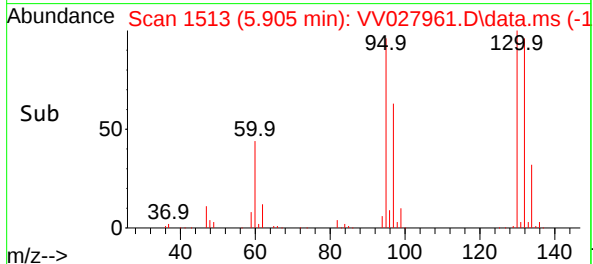
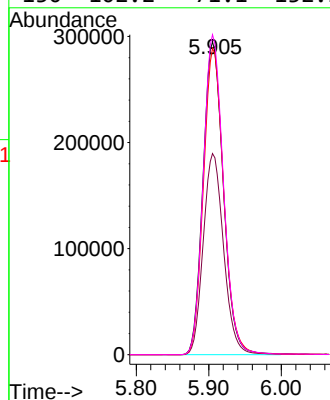
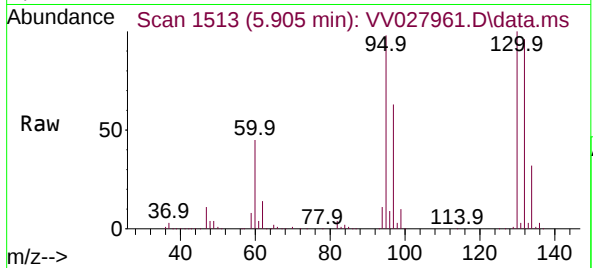




#34  
Trichloroethene  
Concen: 184.512 ug/L  
RT: 5.905 min Scan# 1513  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

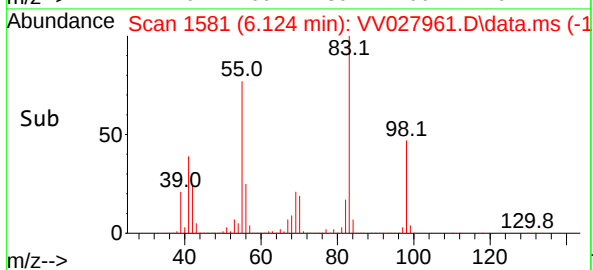
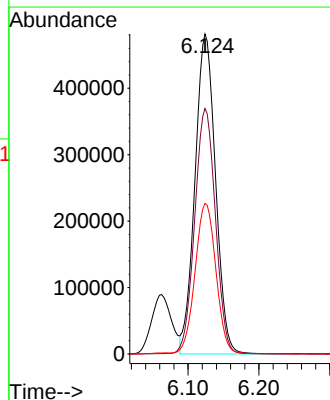
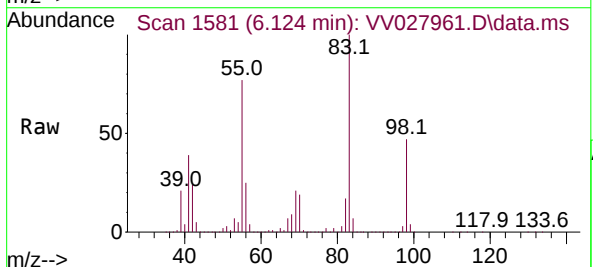
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

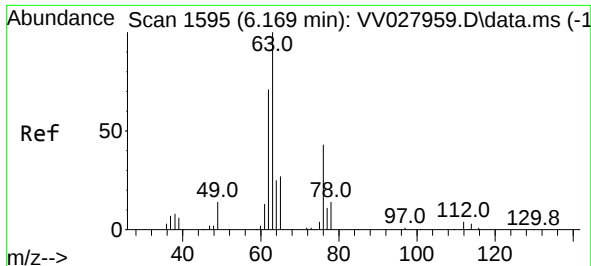
Tgt Ion: 95 Resp: 576434  
Ion Ratio Lower Upper  
95 100  
97 64.2 45.4 84.2  
132 97.9 69.2 128.6  
130 102.2 71.1 132.1



#35  
Methylcyclohexane  
Concen: 208.837 ug/L  
RT: 6.124 min Scan# 1581  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 83 Resp: 969766  
Ion Ratio Lower Upper  
83 100  
55 77.2 63.0 94.4  
98 47.9 39.5 59.3





#37

1,2-Dichloropropane

Concen: 182.470 ug/L

RT: 6.166 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

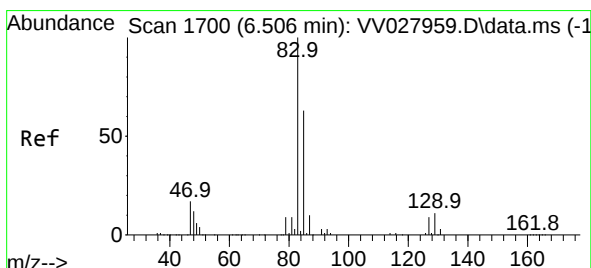
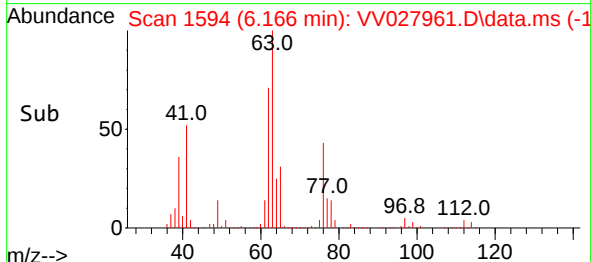
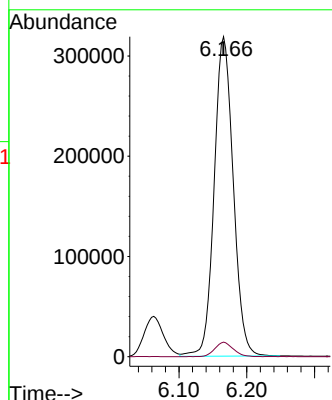
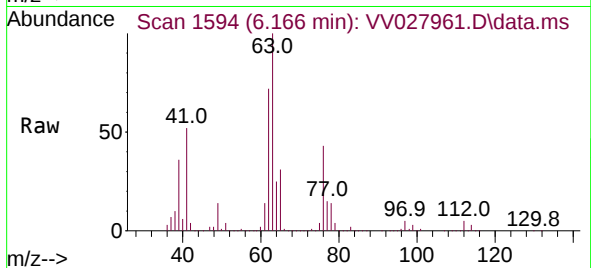
VSTD200262

Tgt Ion: 63 Resp: 622327

Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.0



#38

Bromodichloromethane

Concen: 185.470 ug/L

RT: 6.500 min Scan# 1698

Delta R.T. -0.006 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

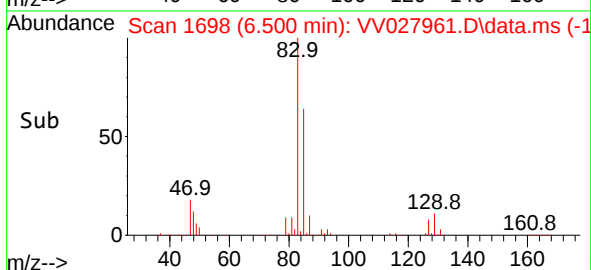
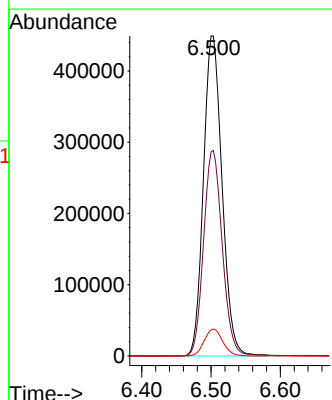
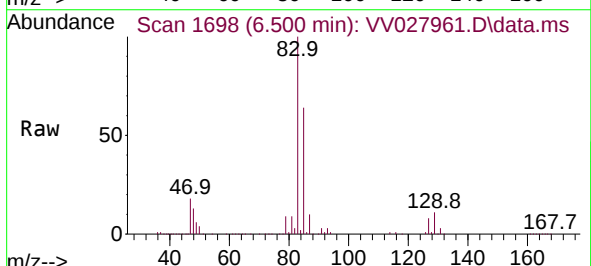
Tgt Ion: 83 Resp: 836882

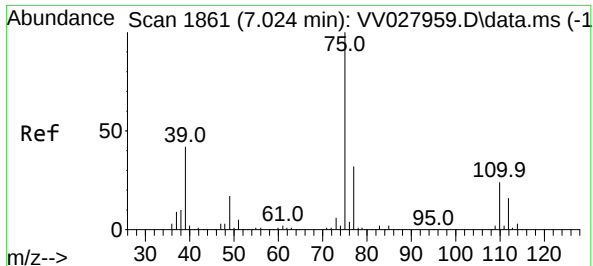
Ion Ratio Lower Upper

83 100

85 63.7 44.2 82.0

127 8.1 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 212.597 ug/L

RT: 7.021 min Scan# 1861

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

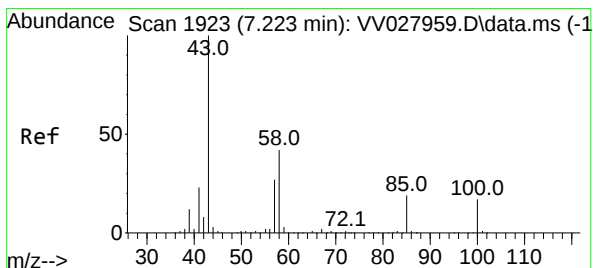
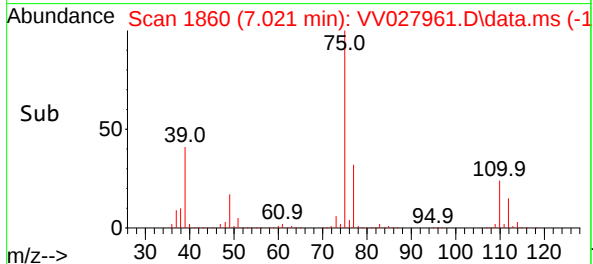
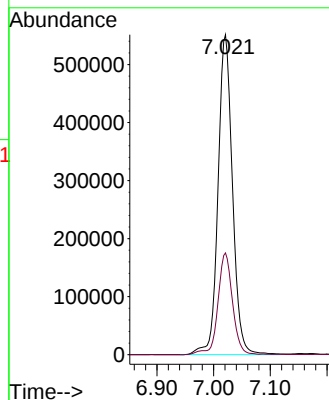
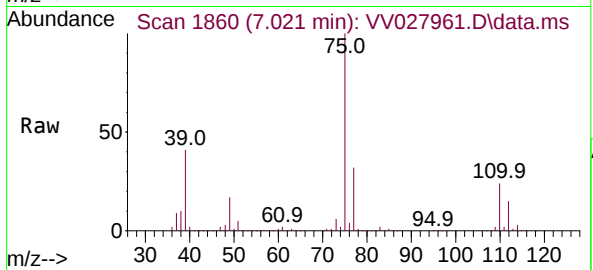
VSTD200262

Tgt Ion: 75 Resp: 977051

Ion Ratio Lower Upper

75 100

77 31.8 22.6 42.0



#40

4-Methyl-2-pentanone

Concen: 413.737 ug/L

RT: 7.220 min Scan# 1922

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

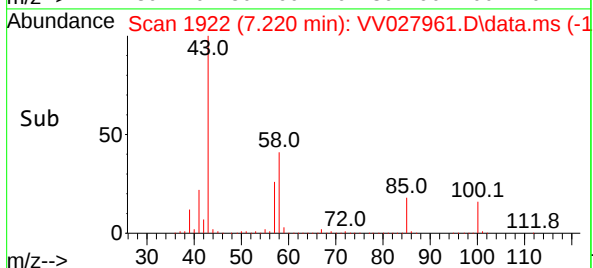
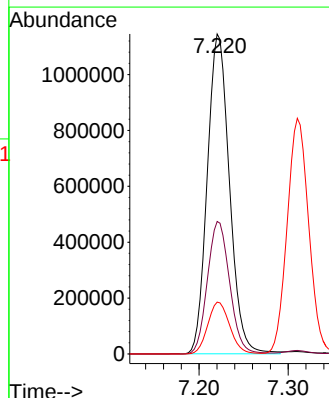
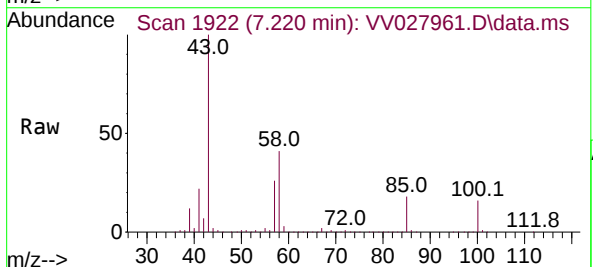
Tgt Ion: 43 Resp: 1979397

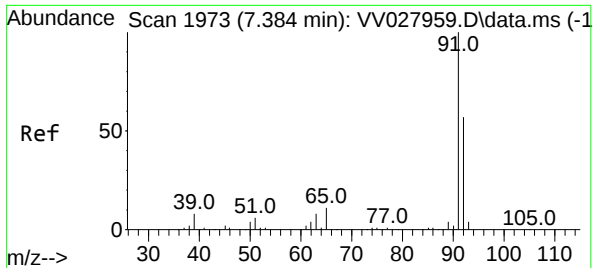
Ion Ratio Lower Upper

43 100

58 41.5 33.0 49.4

100 16.1 13.3 19.9

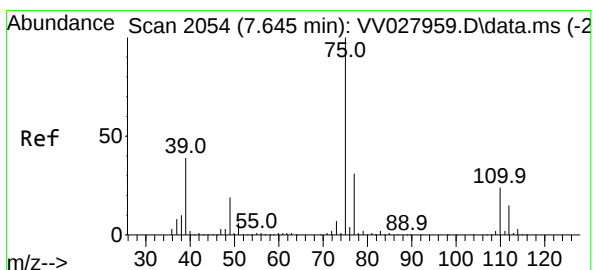
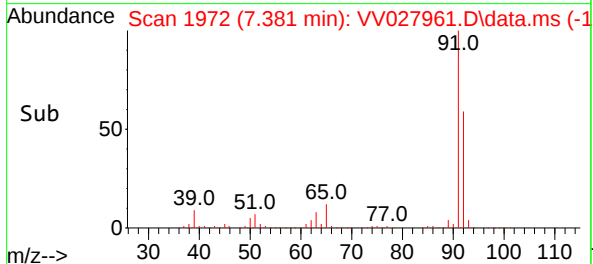
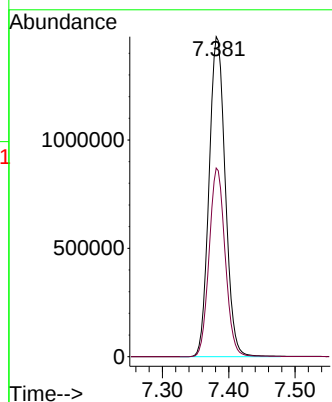
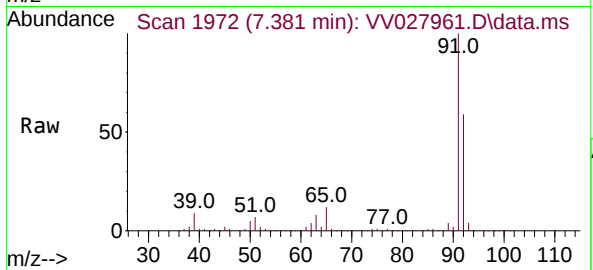




#42  
Toluene  
Concen: 201.779 ug/L  
RT: 7.381 min Scan# 1973  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

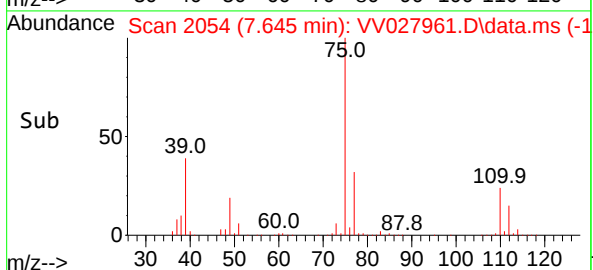
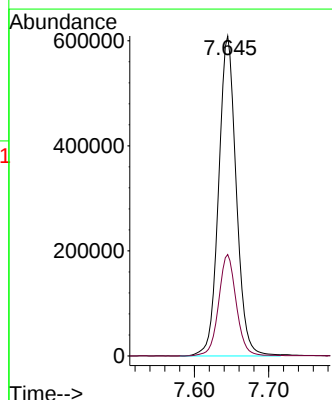
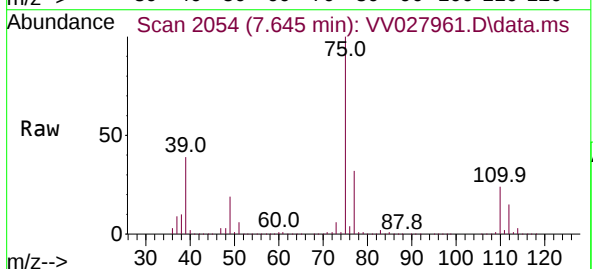
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

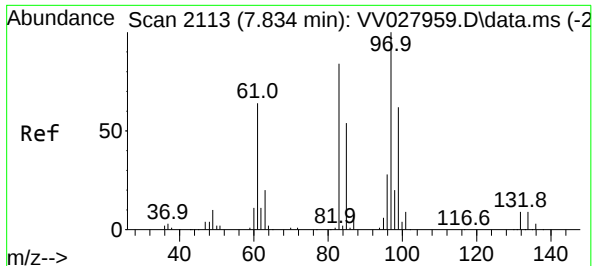
Tgt Ion: 91 Resp: 2503576  
Ion Ratio Lower Upper  
91 100  
92 59.0 40.0 74.4



#44  
trans-1,3-Dichloropropene  
Concen: 221.675 ug/L  
RT: 7.645 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 75 Resp: 1006568  
Ion Ratio Lower Upper  
75 100  
77 31.7 21.4 39.8

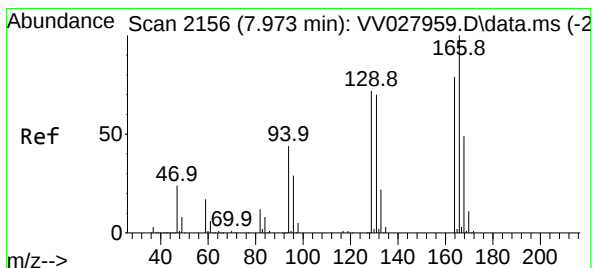
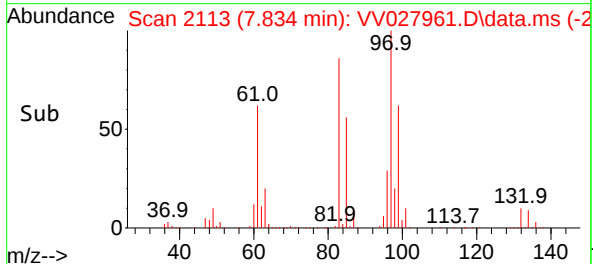
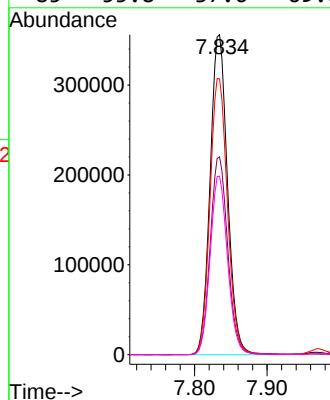
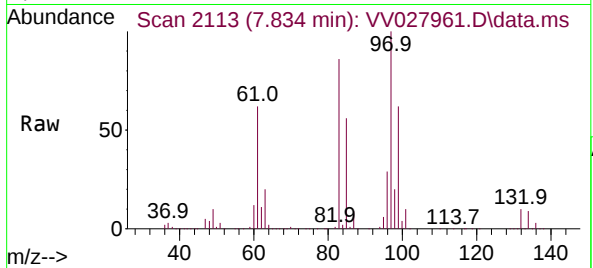




#45  
1,1,2-Trichloroethane  
Concen: 179.509 ug/L  
RT: 7.834 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

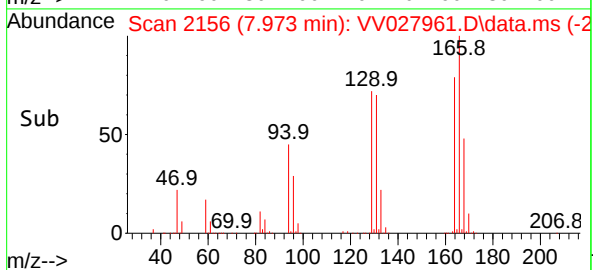
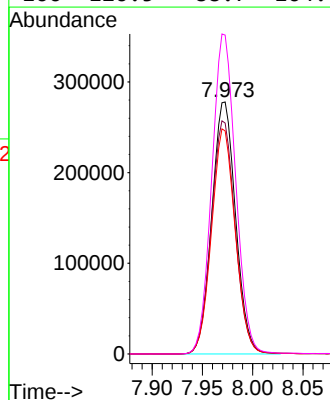
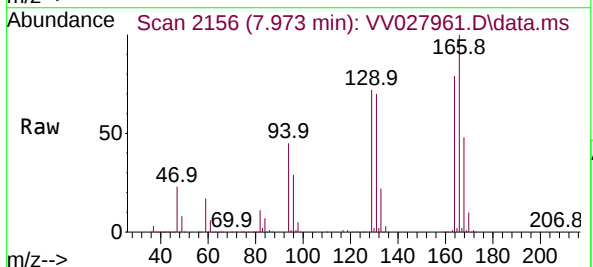
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

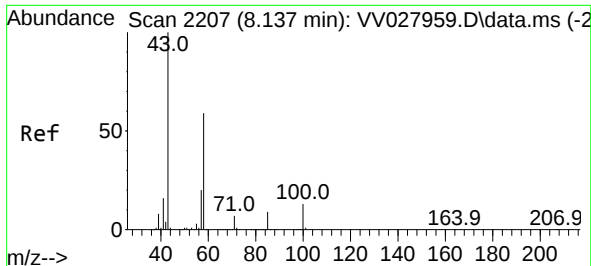
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 593071 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.8  | 43.8  | 81.3   |
| 83       | 86.1  | 58.7  | 109.1  |
| 85       | 55.8  | 37.6  | 69.8   |



#46  
Tetrachloroethene  
Concen: 196.616 ug/L  
RT: 7.973 min Scan# 2156  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 458591 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 91.6  | 64.3  | 119.3  |
| 131      | 88.5  | 62.6  | 116.2  |
| 166      | 126.5 | 88.7  | 164.7  |



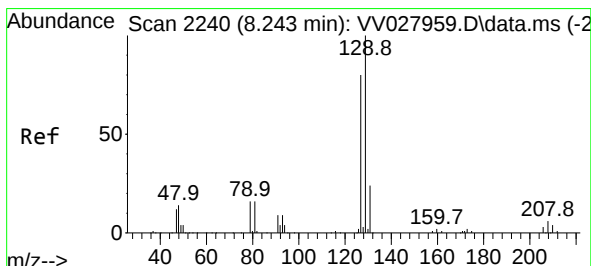
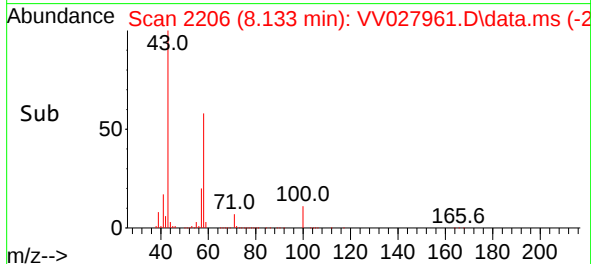
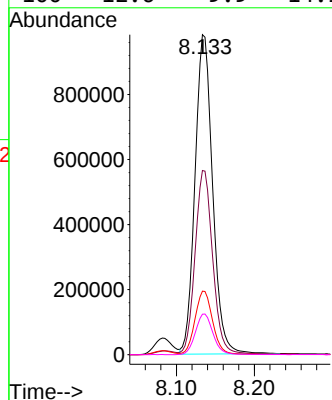
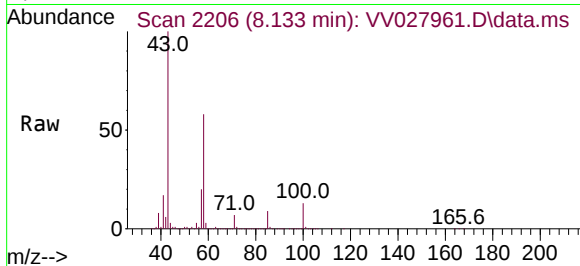


#48  
2-Hexanone  
Concen: 401.689 ug/L  
RT: 8.133 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

Tgt Ion: 43 Resp: 1544194

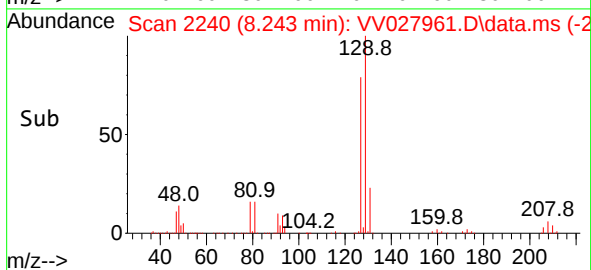
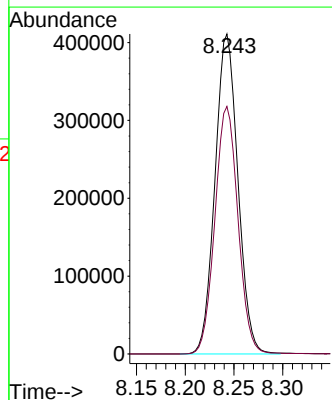
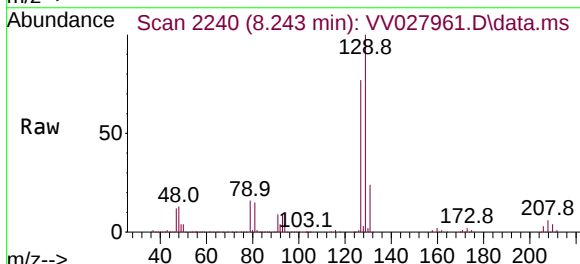
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 57.6  | 45.6  | 68.4  |
| 57  | 19.8  | 15.0  | 22.6  |
| 100 | 12.6  | 9.9   | 14.9  |

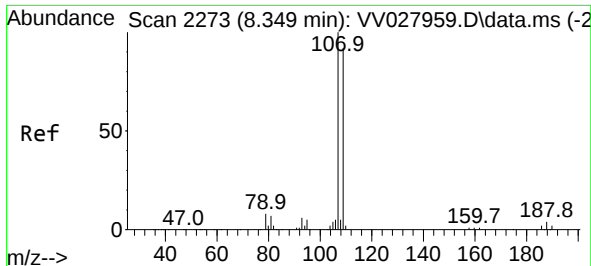


#49  
Dibromochloromethane  
Concen: 191.826 ug/L  
RT: 8.243 min Scan# 2240  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 129 Resp: 672920

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.3  | 56.3  | 104.5 |





#50

1,2-Dibromoethane

Concen: 185.994 ug/L

RT: 8.346 min Scan# 21

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

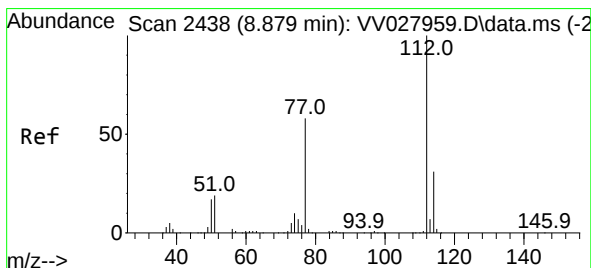
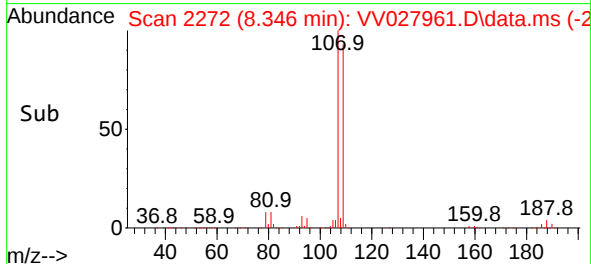
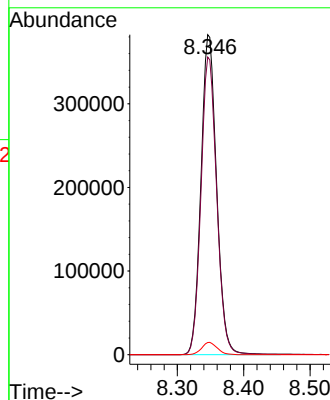
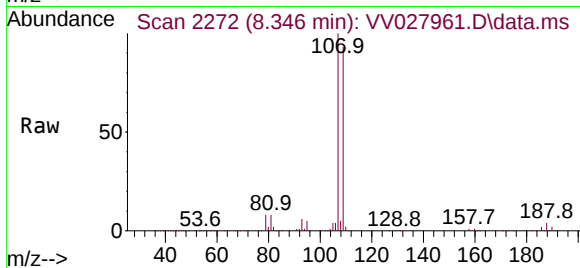
Tgt Ion:107 Resp: 628549

Ion Ratio Lower Upper

107 100

109 93.0 64.4 119.6

188 3.8 3.0 4.4



#51

Chlorobenzene

Concen: 192.263 ug/L

RT: 8.876 min Scan# 2437

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

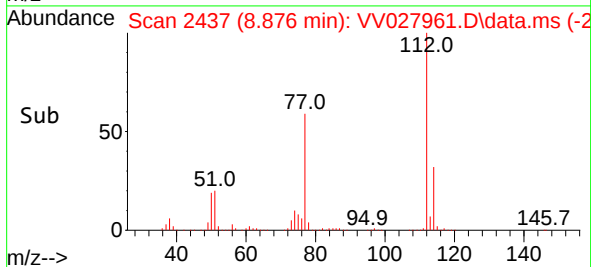
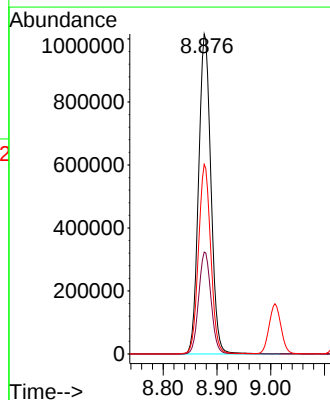
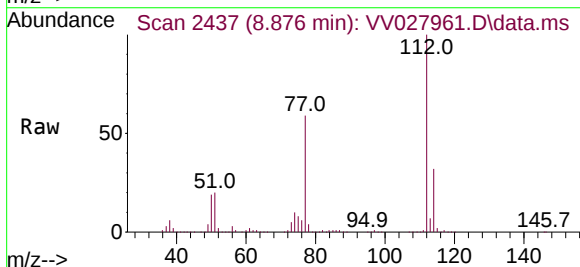
Tgt Ion:112 Resp: 1614832

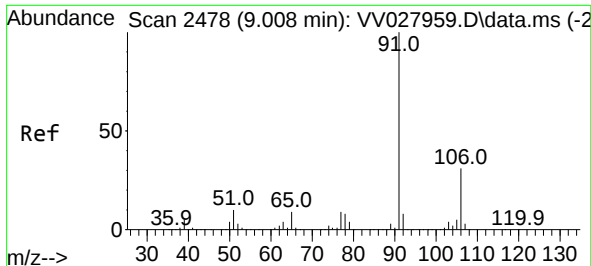
Ion Ratio Lower Upper

112 100

114 31.9 21.9 40.7

77 59.3 46.8 70.2

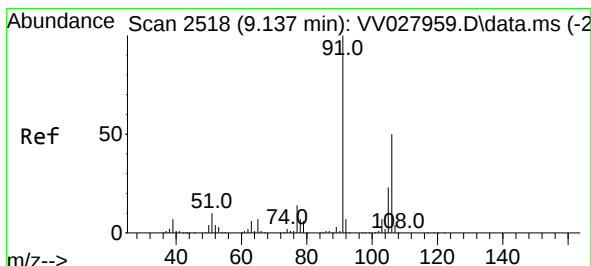
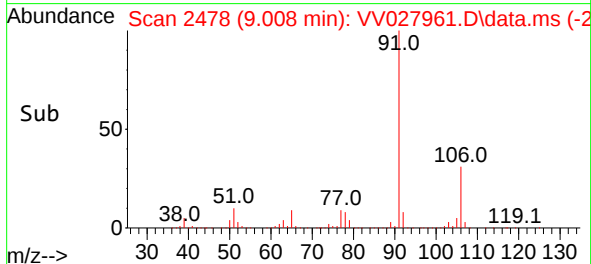
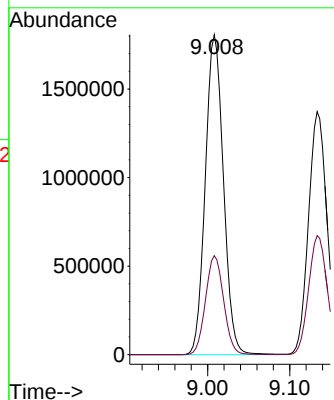
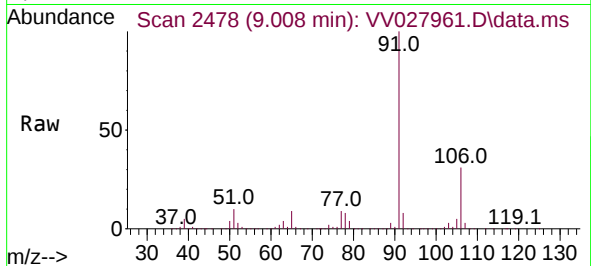




#52  
Ethylbenzene  
Concen: 213.040 ug/L  
RT: 9.008 min Scan# 2478  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

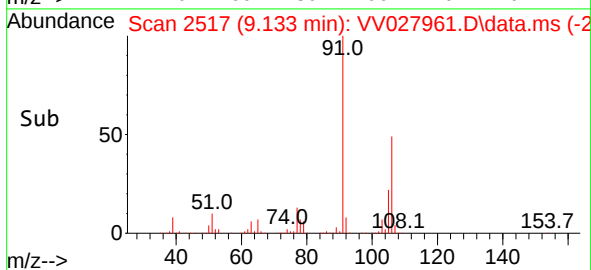
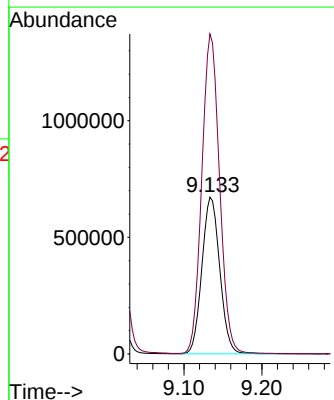
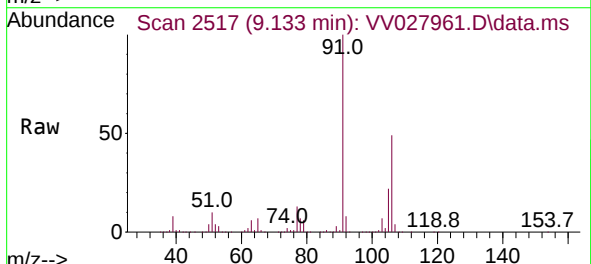
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

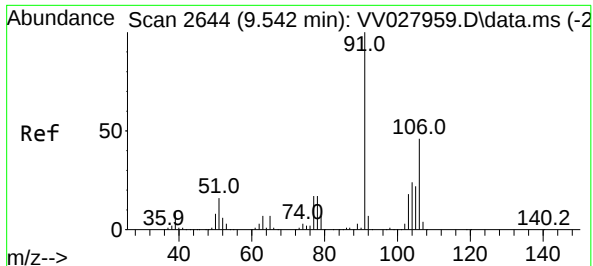
Tgt Ion: 91 Resp: 2771835  
Ion Ratio Lower Upper  
91 100  
106 31.0 21.3 39.6



#53  
m,p-Xylene  
Concen: 216.732 ug/L  
RT: 9.133 min Scan# 2517  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 106 Resp: 1067107  
Ion Ratio Lower Upper  
106 100  
91 204.1 139.8 259.6

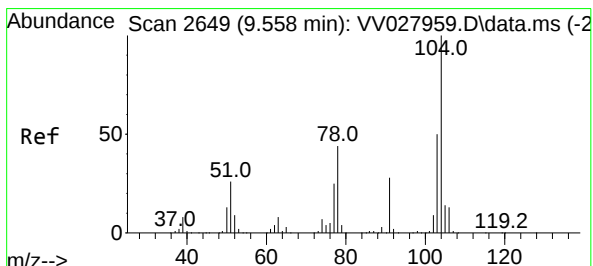
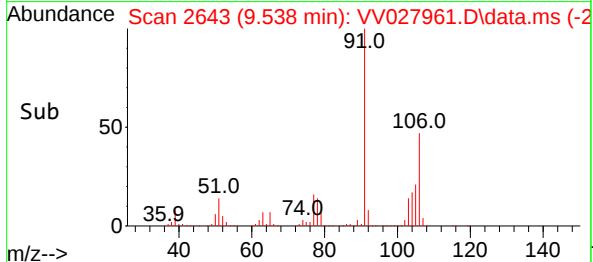
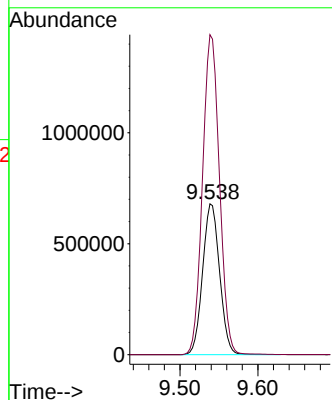
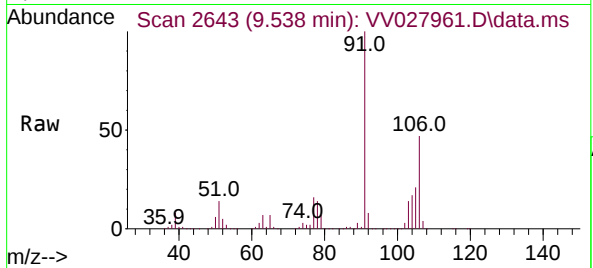




#54  
o-Xylene  
Concen: 213.911 ug/L  
RT: 9.538 min Scan# 2643  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

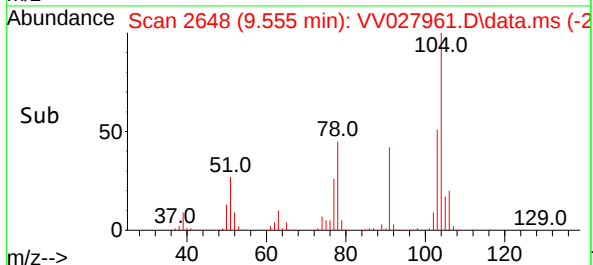
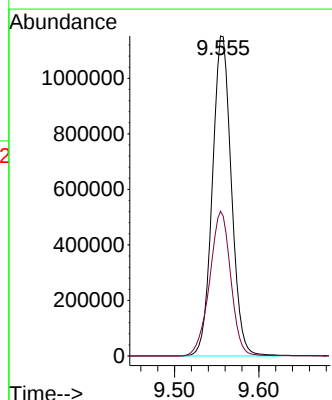
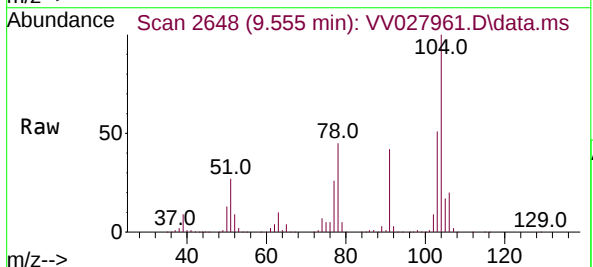
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

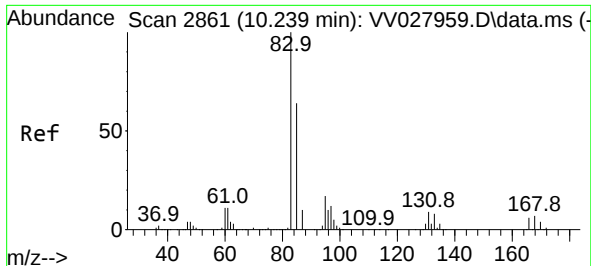
Tgt Ion:106 Resp: 1026766  
Ion Ratio Lower Upper  
106 100  
91 212.2 151.1 280.5



#55  
Styrene  
Concen: 215.227 ug/L  
RT: 9.555 min Scan# 2648  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion:104 Resp: 1806821  
Ion Ratio Lower Upper  
104 100  
78 45.2 31.1 57.7





#57

1,1,2,2-Tetrachloroethane

Concen: 174.068 ug/L

RT: 10.236 min Scan# 21

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

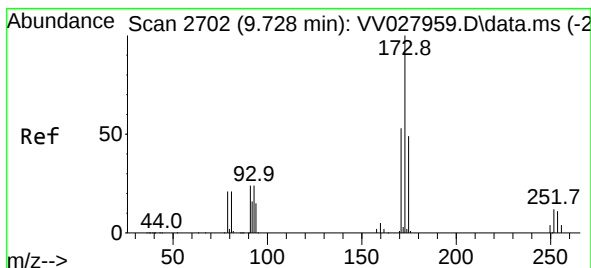
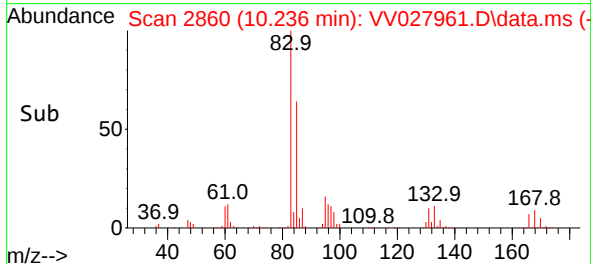
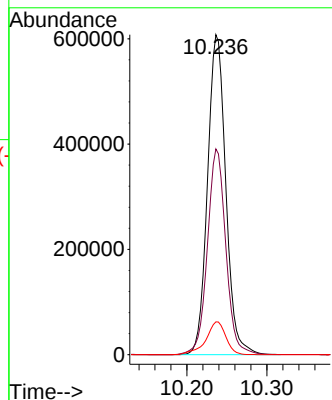
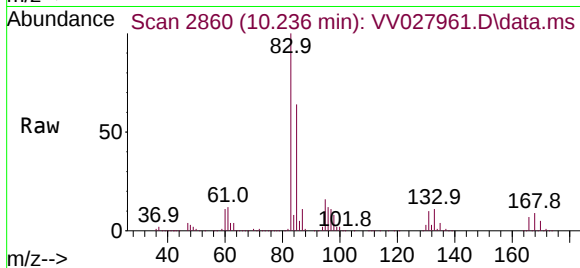
Tgt Ion: 83 Resp: 968593

Ion Ratio Lower Upper

83 100

85 64.3 45.1 83.9

131 10.3 7.7 11.5



#59

Bromoform

Concen: 188.030 ug/L

RT: 9.725 min Scan# 2701

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

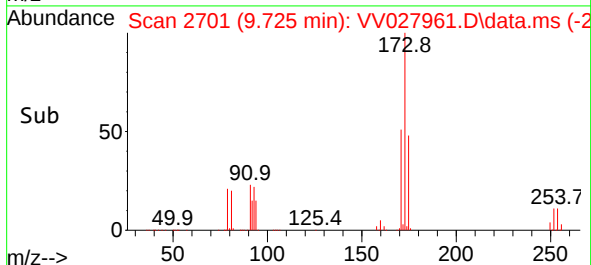
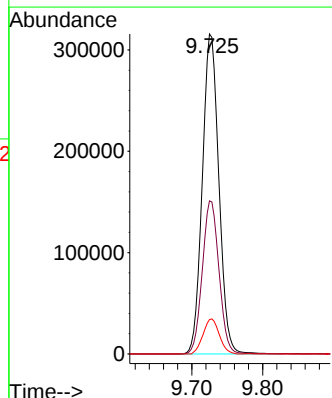
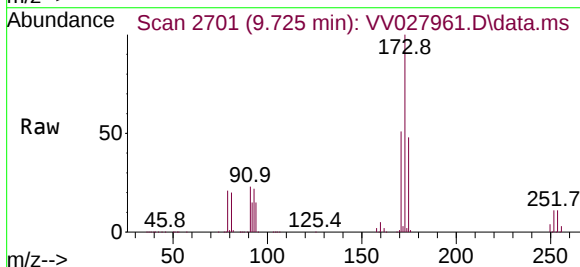
Tgt Ion: 173 Resp: 511903

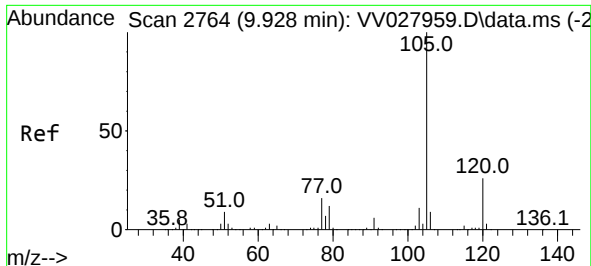
Ion Ratio Lower Upper

173 100

175 48.2 39.7 59.5

254 10.8 7.4 11.2

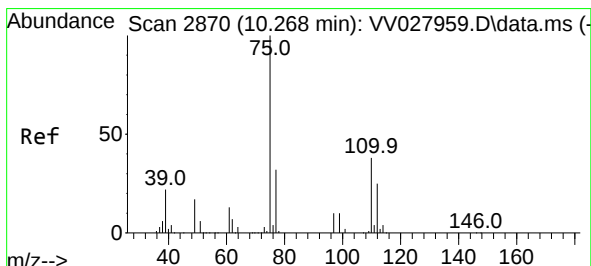
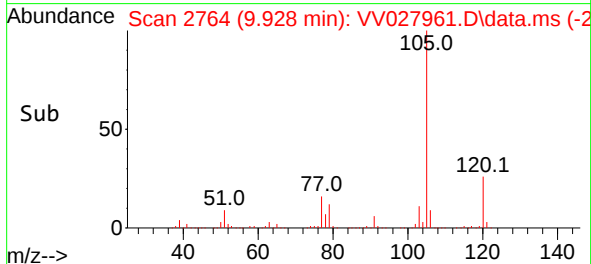
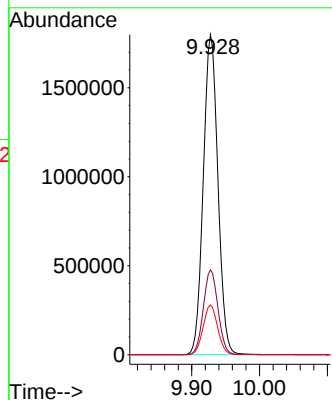
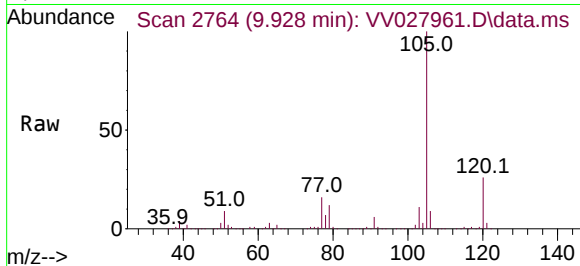




#60  
Isopropylbenzene  
Concen: 188.348 ug/L  
RT: 9.928 min Scan# 2764  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

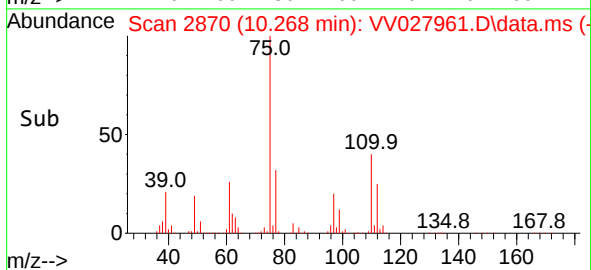
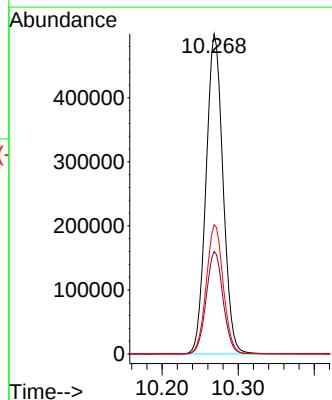
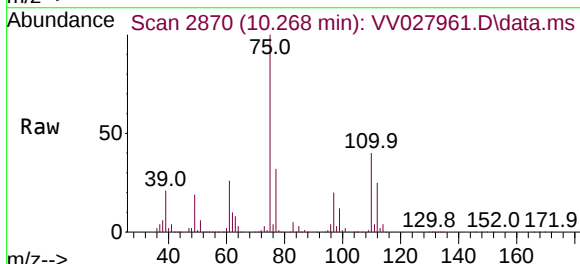
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

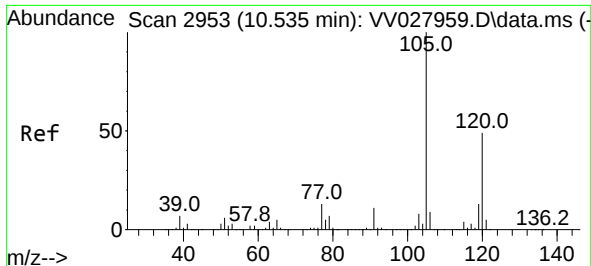
Tgt Ion:105 Resp: 2690409  
Ion Ratio Lower Upper  
105 100  
120 26.5 20.8 31.2  
77 15.5 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 150.922 ug/L  
RT: 10.268 min Scan# 2870  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion: 75 Resp: 774283  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.9 38.9  
110 40.4 31.1 46.7





#62

1,3,5-Trimethylbenzene

Concen: 203.990 ug/L

RT: 10.535 min Scan# 2953

Delta R.T. 0.000 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

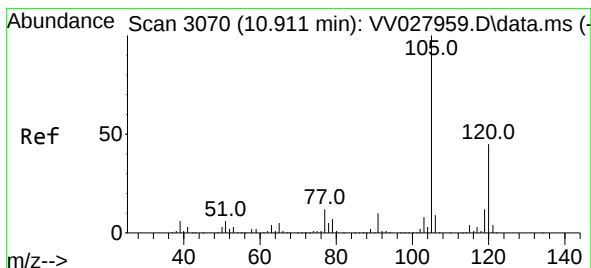
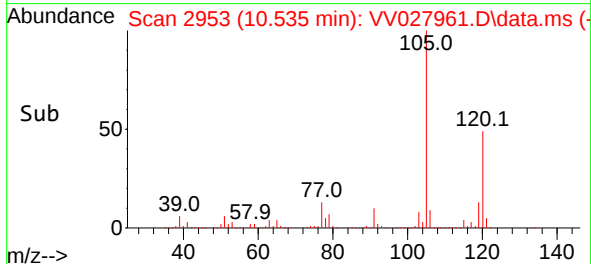
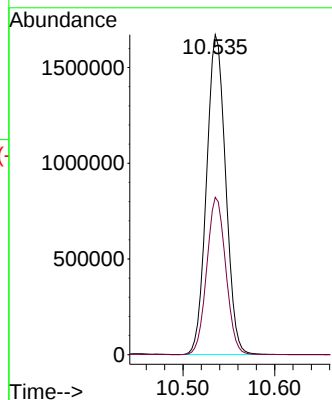
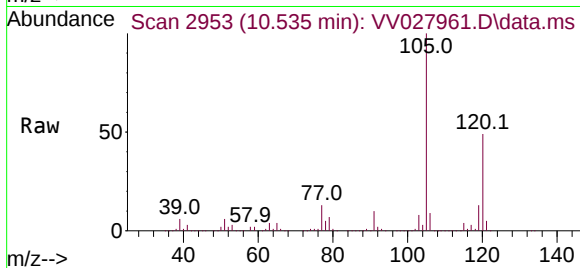
VSTD200262

Tgt Ion:105 Resp: 2415217

Ion Ratio Lower Upper

105 100

120 49.1 40.2 60.2



#63

1,2,4-Trimethylbenzene

Concen: 213.078 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. 0.000 min

Lab File: VV027961.D

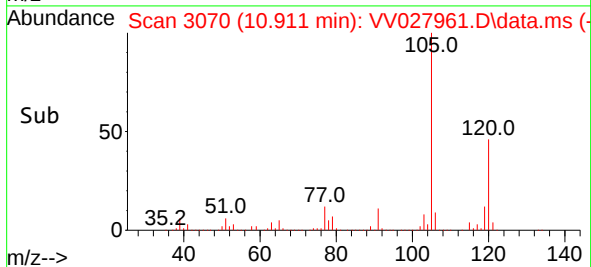
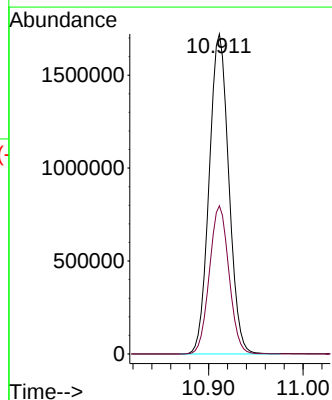
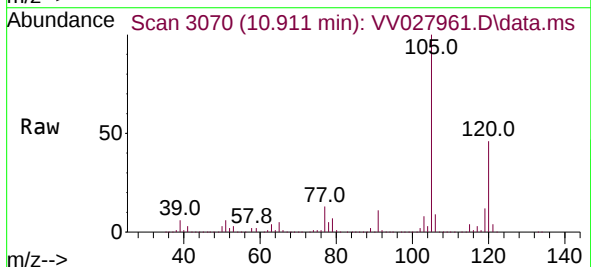
Acq: 20 Sep 2022 14:07

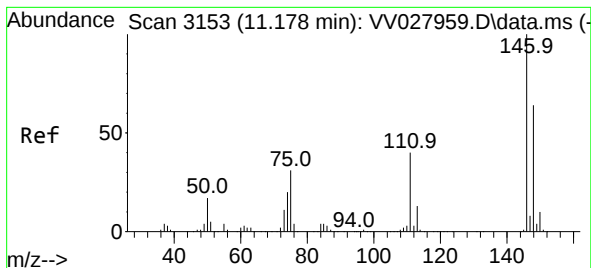
Tgt Ion:105 Resp: 2482639

Ion Ratio Lower Upper

105 100

120 46.1 36.3 54.5





#64

1,3-Dichlorobenzene

Concen: 195.160 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.000 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

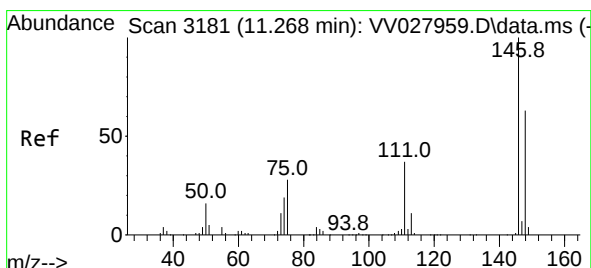
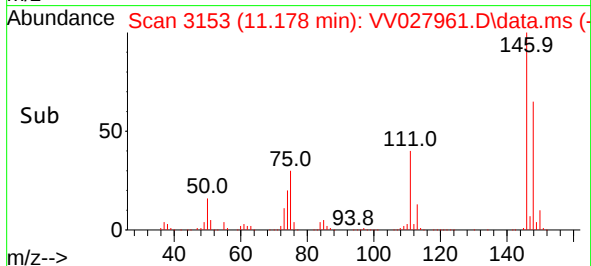
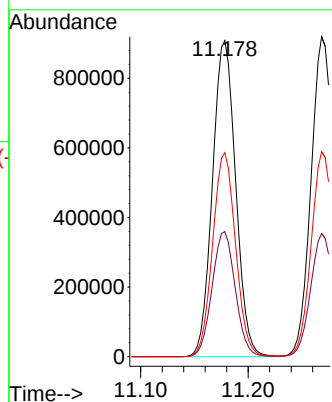
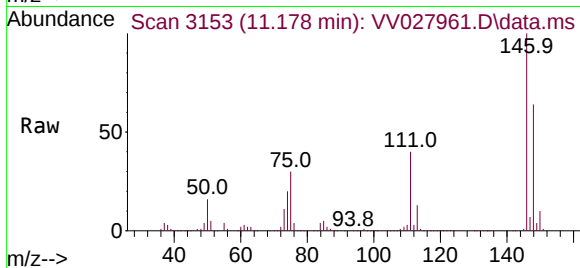
Tgt Ion:146 Resp: 1361702

Ion Ratio Lower Upper

146 100

111 39.5 28.2 52.4

148 64.5 45.0 83.6



#65

1,4-Dichlorobenzene

Concen: 188.262 ug/L

RT: 11.268 min Scan# 3181

Delta R.T. 0.000 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

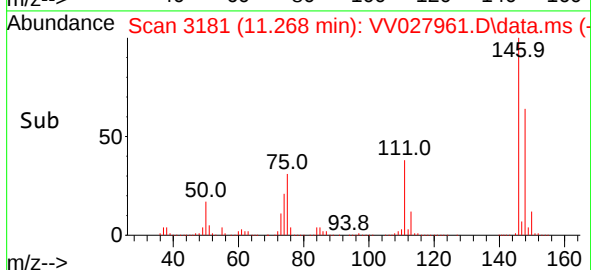
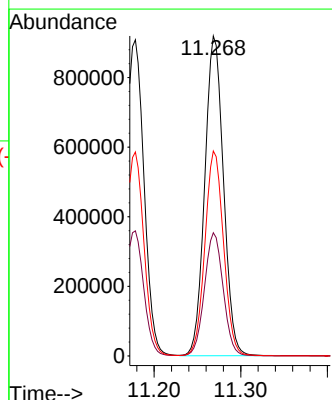
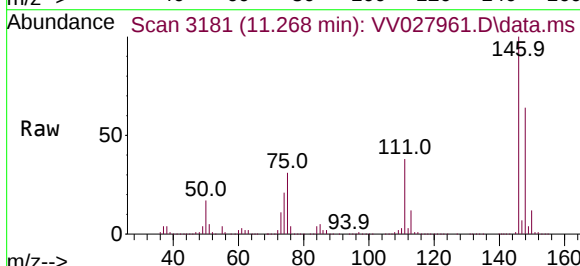
Tgt Ion:146 Resp: 1377486

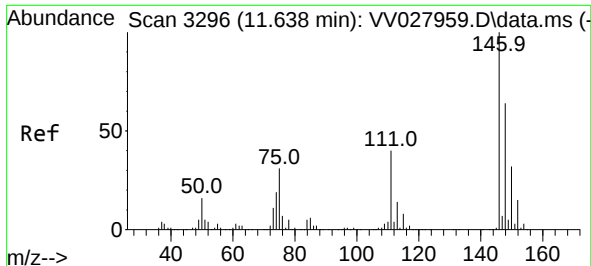
Ion Ratio Lower Upper

146 100

111 38.5 26.0 48.2

148 64.0 43.9 81.5





#67

1,2-Dichlorobenzene

Concen: 190.156 ug/L

RT: 11.638 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262

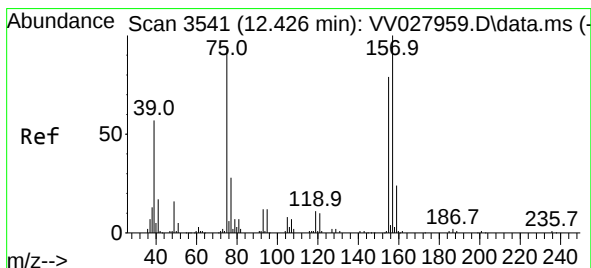
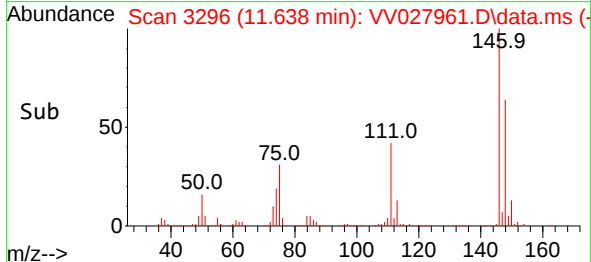
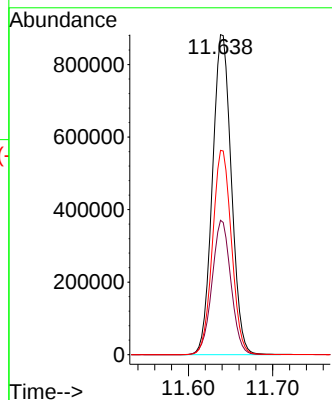
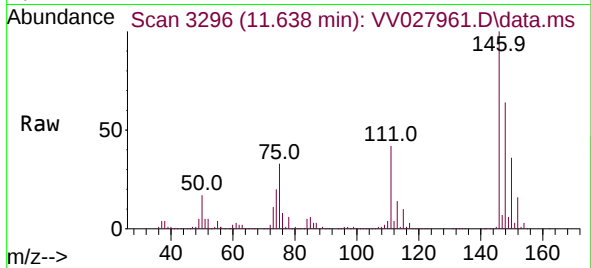
Tgt Ion:146 Resp: 1375424

Ion Ratio Lower Upper

146 100

111 42.0 32.3 48.5

148 63.9 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 187.270 ug/L

RT: 12.423 min Scan# 3540

Delta R.T. -0.003 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

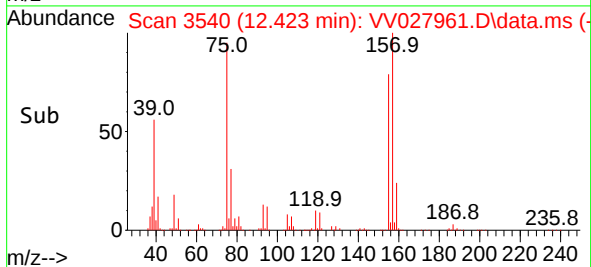
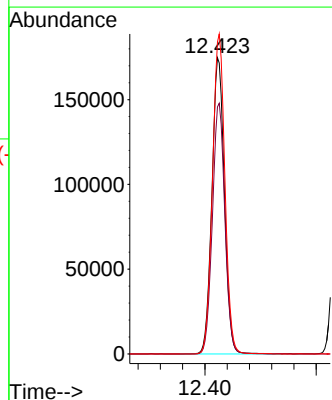
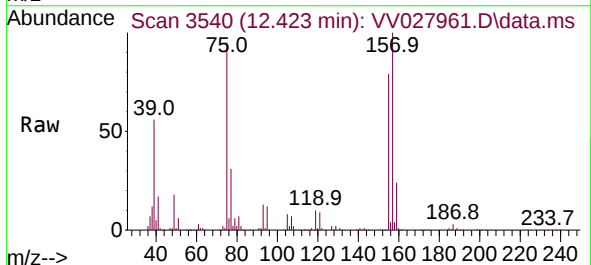
Tgt Ion: 75 Resp: 272196

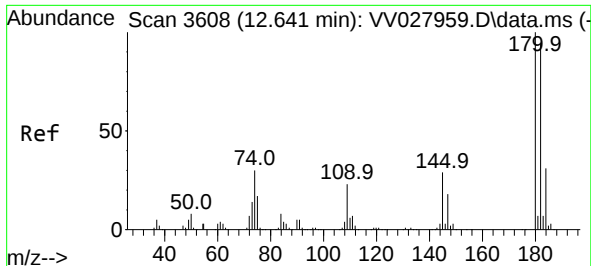
Ion Ratio Lower Upper

75 100

155 83.4 68.3 102.5

157 105.3 86.2 129.2





#69

1,3,5-Trichlorobenzene

Concen: 224.592 ug/L

RT: 12.641 min Scan# 3608

Delta R.T. 0.000 min

Lab File: VV027961.D

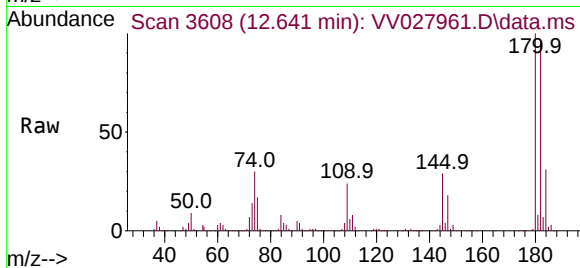
Acq: 20 Sep 2022 14:07

Instrument :

MSVOA\_V

ClientSampleId :

VSTD200262



Tgt Ion:180 Resp: 1086414

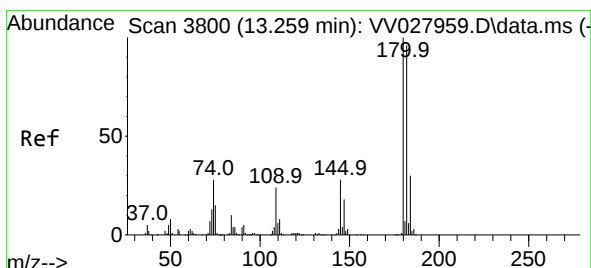
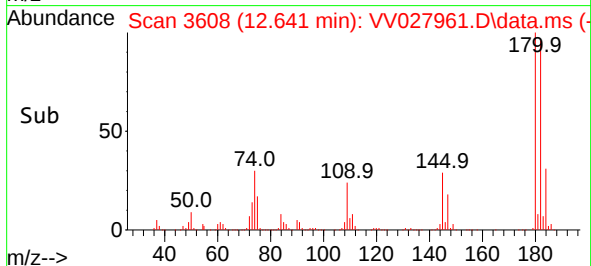
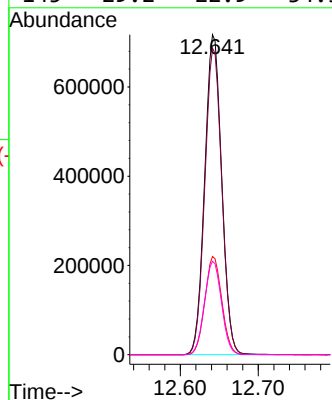
Ion Ratio Lower Upper

180 100

182 95.7 75.4 113.0

184 30.5 24.2 36.2

145 29.2 22.9 34.3



#70

1,2,4-trichlorobenzene

Concen: 247.209 ug/L

RT: 13.259 min Scan# 3800

Delta R.T. 0.000 min

Lab File: VV027961.D

Acq: 20 Sep 2022 14:07

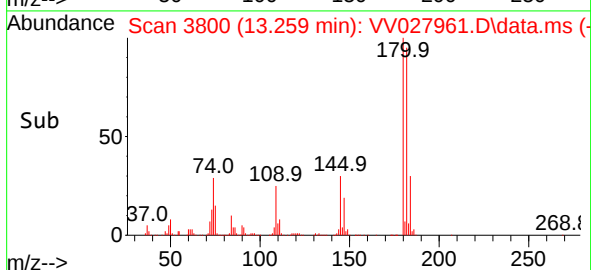
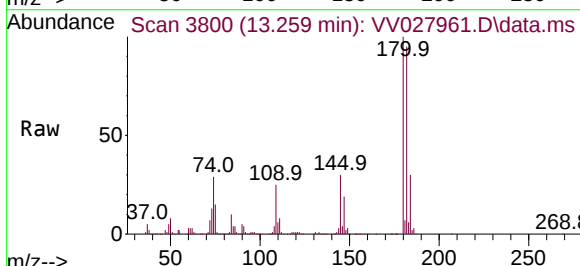
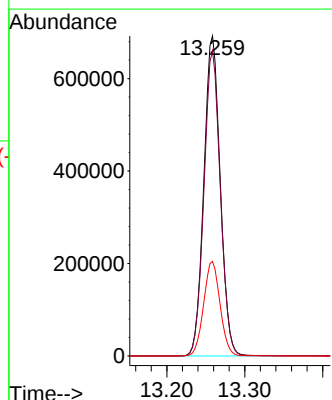
Tgt Ion:180 Resp: 1012860

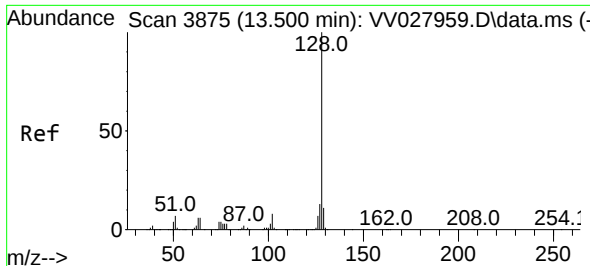
Ion Ratio Lower Upper

180 100

182 95.4 77.0 115.6

145 29.6 22.8 34.2

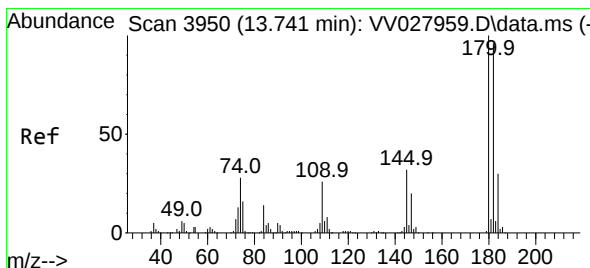
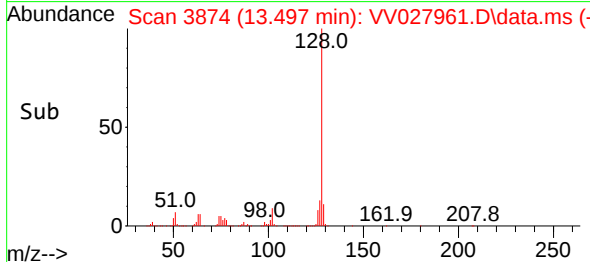
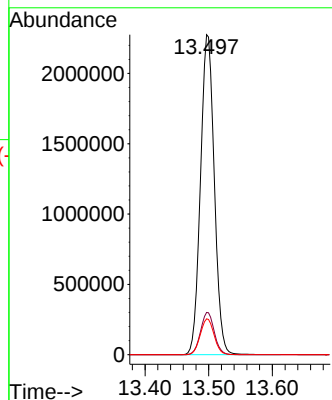
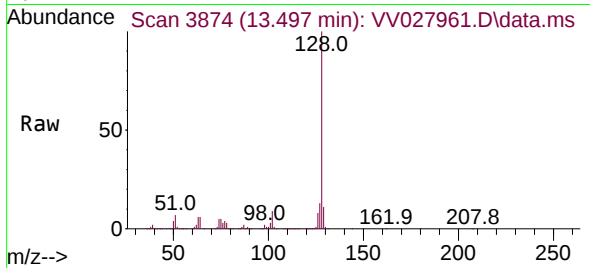




#71  
Naphthalene  
Concen: 248.009 ug/L  
RT: 13.497 min Scan# 3875  
Delta R.T. -0.003 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD200262

Tgt Ion:128 Resp: 3432327  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.4 15.6  
129 11.2 8.6 12.8



#72  
1,2,3-Trichlorobenzene  
Concen: 229.403 ug/L  
RT: 13.741 min Scan# 3950  
Delta R.T. 0.000 min  
Lab File: VV027961.D  
Acq: 20 Sep 2022 14:07

Tgt Ion:180 Resp: 1014572  
Ion Ratio Lower Upper  
180 100  
182 96.5 77.0 115.4  
145 31.5 25.1 37.7

