

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042924\  
 Data File : VL041183.D  
 Acq On : 29 Apr 2024 14:07  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Apr 30 05:08:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Apr 30 05:04:57 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 1020722  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 2608461  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.462 | 117  | 2375514  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.770 | 95    | 1821843  | 10.154   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.500% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 14705  | 0.104 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.986 | 51  | 1703   | 0.011 | ppbv   | 99     |
| 4) Chloromethane              | 2.809 | 50  | 5954   | 0.096 | ppbv # | 86     |
| 5) Vinyl Chloride             | 2.915 | 62  | 5437   | 0.091 | ppbv # | 79     |
| 6) Bromomethane               | 3.115 | 94  | 1435   | 0.064 | ppbv   | 97     |
| 7) Chloroethane               | 3.192 | 64  | 1629   | 0.075 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 6733   | 0.047 | ppbv # | 13     |
| 9) Propene                    | 2.690 | 41  | 9707   | 0.160 | ppbv   | 90     |
| 10) Heptane                   | 7.577 | 43  | 7932   | 0.055 | ppbv # | 29     |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 13496  | 0.096 | ppbv   | 88     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 6230   | 0.060 | ppbv # | 63     |
| 13) Ethanol                   | 3.243 | 45  | 345    | 0.026 | ppbv # | 38     |
| 14) Bromoethene               | 3.362 | 108 | 3290   | 0.075 | ppbv # | 56     |
| 15) Acetone                   | 3.462 | 43  | 535    | 0.004 | ppbv # | 48     |
| 16) 1,3-Butadiene             | 2.983 | 39  | 4220   | 0.070 | ppbv # | 48     |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 573    | 0.004 | ppbv # | 72     |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 4668   | 0.097 | ppbv # | 91     |
| 19) Isopropyl Alcohol         | 3.568 | 45  | 157    | 0.002 | ppbv # | 41     |
| 20) Methylene Chloride        | 3.925 | 84  | 10076  | 0.238 | ppbv # | 72     |
| 21) Allyl Chloride            | 3.989 | 41  | 7588   | 0.096 | ppbv # | 66     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 2914   | 0.061 | ppbv # | 75     |
| 23) Vinyl Acetate             | 4.616 | 43  | 1316   | 0.010 | ppbv # | 1      |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 7792   | 0.075 | ppbv # | 94     |
| 25) Ethyl Acetate             | 5.211 | 43  | 11699  | 0.049 | ppbv # | 75     |
| 26) Hexane                    | 5.208 | 57  | 6637   | 0.063 | ppbv # | 1      |
| 27) Carbon Disulfide          | 4.124 | 76  | 11843  | 0.094 | ppbv # | 20     |
| 28) Methyl tert-Butyl Ether   | 4.584 | 73  | 1559   | 0.018 | ppbv # | 52     |
| 29) Chloroform                | 5.269 | 83  | 14378  | 0.097 | ppbv   | 95     |
| 30) Cyclohexane               | 6.597 | 84  | 5338   | 0.062 | ppbv # | 26     |
| 31) cis-1,2-Dichloroethene    | 5.108 | 61  | 439    | 0.004 | ppbv   | 88     |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 6325   | 0.043 | ppbv # | 1      |
| 34) 2-Butanone                | 4.783 | 43  | 854    | 0.007 | ppbv # | 54     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 6248   | 0.042 | ppbv   | 91     |
| 36) Benzene                   | 6.369 | 78  | 11739  | 0.053 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 6889   | 0.060 | ppbv   | 98     |
| 38) Trichloroethene           | 7.288 | 130 | 5495   | 0.066 | ppbv # | 79     |
| 39) 1,2-Dichloropropane       | 6.648 | 63  | 682842 | 8.055 | ppbv # | 24     |
| 40) 1,4-Dioxane               | 7.278 | 88  | 49     | 0.002 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.549 | 42  | 163    | 0.002 | ppbv # | 38     |
| 42) Bromodichloromethane      | 7.240 | 83  | 6157   | 0.037 | ppbv # | 82     |
| 43) Methyl Methacrylate       | 7.471 | 69  | 1587   | 0.018 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 7.314 | 57  | 10460  | 0.028 | ppbv # | 40     |
| 45) t-1,3-Dichloropropene     | 8.729 | 75  | 929    | 0.014 | ppbv   | 90     |

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 Acq On : 29 Apr 2024 14:07  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Apr 30 05:08:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Apr 30 05:04:57 2024  
 Response via : Initial Calibration

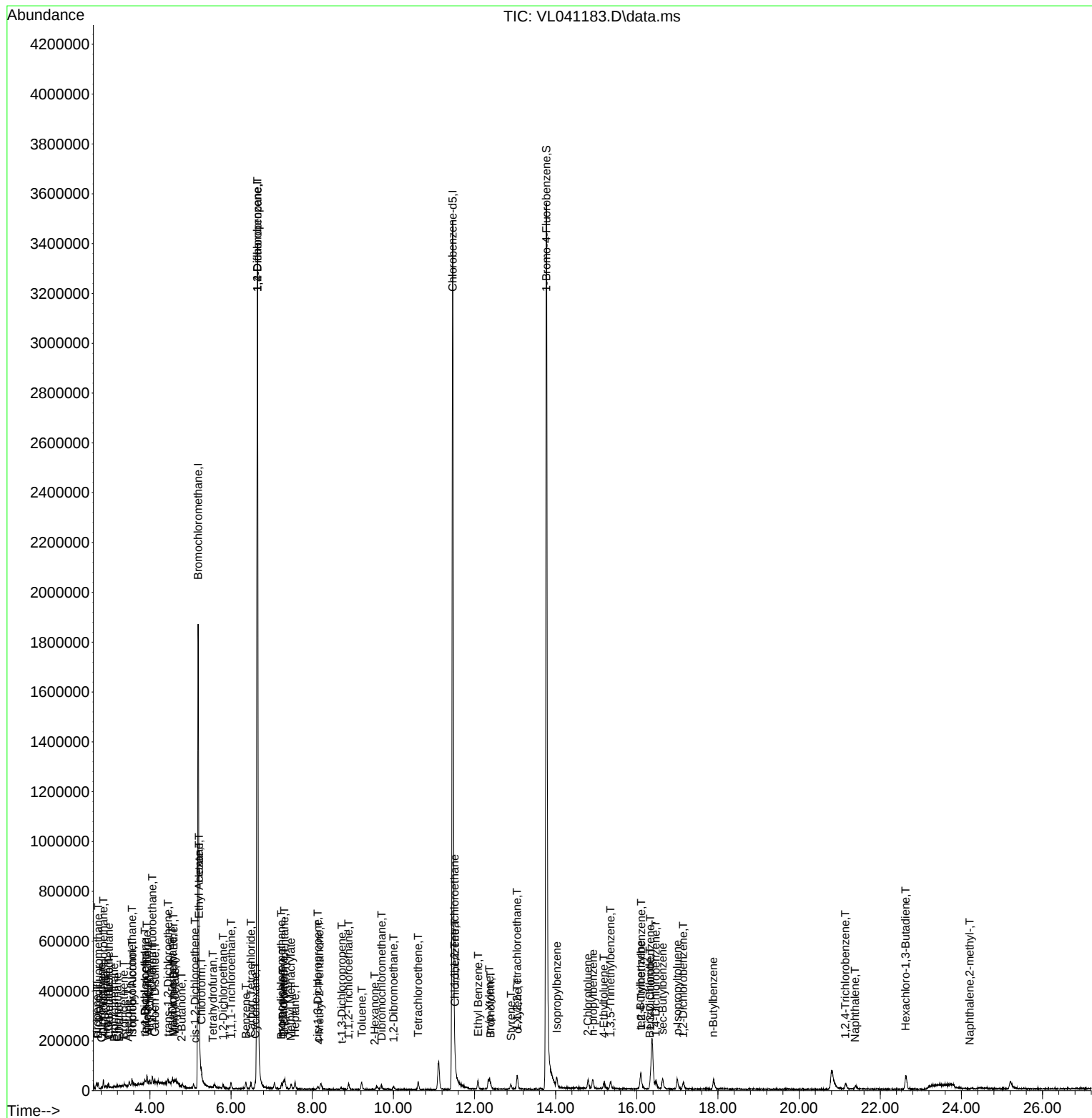
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.134  | 75   | 1881     | 0.024 | ppbv # | 75       |
| 47) 1,1,2-Trichloroethane     | 8.893  | 97   | 2462     | 0.029 | ppbv # | 52       |
| 48) Dibromochloromethane      | 9.712  | 129  | 4025     | 0.029 | ppbv # | 1        |
| 49) Bromoform                 | 12.394 | 173  | 4405     | 0.038 | ppbv # | 27       |
| 50) 4-Methyl-2-Pentanone      | 8.179  | 43   | 581      | 0.002 | ppbv # | 40       |
| 51) 2-Hexanone                | 9.542  | 43   | 614      | 0.004 | ppbv # | 29       |
| 52) Tetrachloroethene         | 10.613 | 164  | 5146     | 0.067 | ppbv # | 80       |
| 53) Toluene                   | 9.220  | 91   | 22863    | 0.089 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.002 | 107  | 5075     | 0.044 | ppbv   | 83       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 2211     | 0.022 | ppbv # | 9        |
| 57) Chlorobenzene             | 11.519 | 112  | 9197     | 0.053 | ppbv # | 42       |
| 58) Ethyl Benzene             | 12.089 | 91   | 13404    | 0.041 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.368 | 91   | 22626    | 0.082 | ppbv # | 17       |
| 60) o-Xylene                  | 13.063 | 91   | 5517     | 0.021 | ppbv # | 1        |
| 61) Styrene                   | 12.902 | 104  | 4704     | 0.035 | ppbv # | 1        |
| 62) Isopropylbenzene          | 14.027 | 105  | 32741    | 0.085 | ppbv # | 89       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 8116     | 0.046 | ppbv # | 18       |
| 64) n-propylbenzene           | 14.921 | 120  | 4709     | 0.049 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.092 | 119  | 9924     | 0.029 | ppbv # | 1        |
| 66) Benzyl Chloride           | 16.320 | 91   | 320      | 0.008 | ppbv # | 1        |
| 67) sec-Butylbenzene          | 16.638 | 105  | 33727    | 0.070 | ppbv # | 87       |
| 69) p-Isopropyltoluene        | 17.002 | 119  | 31297    | 0.078 | ppbv # | 71       |
| 70) n-Butylbenzene            | 17.883 | 91   | 11754    | 0.028 | ppbv # | 33       |
| 71) 2-Chlorotoluene           | 14.793 | 91   | 3230     | 0.011 | ppbv # | 1        |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 7471     | 0.025 | ppbv # | 54       |
| 73) 1,3,5-Trimethylbenzene    | 15.349 | 105  | 12444    | 0.047 | ppbv   | 86       |
| 74) 1,2,4-Trimethylbenzene    | 16.104 | 105  | 11487    | 0.040 | ppbv # | 55       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 3725     | 0.023 | ppbv # | 1        |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 5606     | 0.035 | ppbv # | 1        |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 4960     | 0.030 | ppbv # | 1        |
| 78) Hexachloro-1,3-Butadiene  | 22.625 | 225  | 3898     | 0.027 | ppbv # | 18       |
| 79) Naphthalene               | 21.378 | 128  | 3635     | 0.013 | ppbv # | 78       |
| 80) Naphthalene,2-methyl-     | 24.201 | 142  | 117      | 0.001 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.140 | 180  | 4003     | 0.027 | ppbv # | 12       |

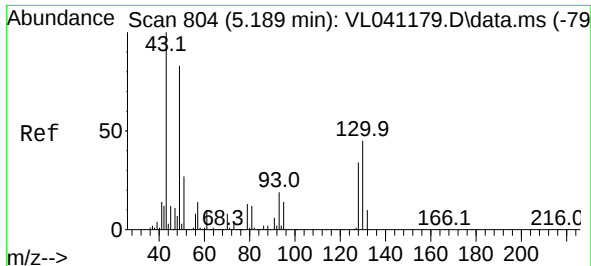
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042924\  
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Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Apr 30 05:08:54 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL042924AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Apr 30 05:04:57 2024  
Response via : Initial Calibration

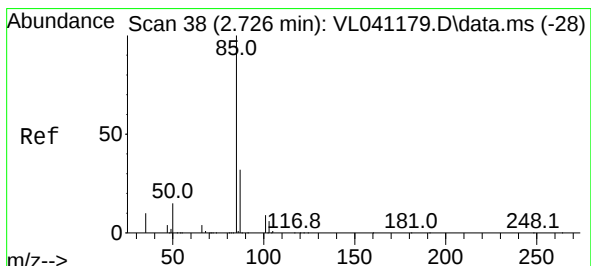
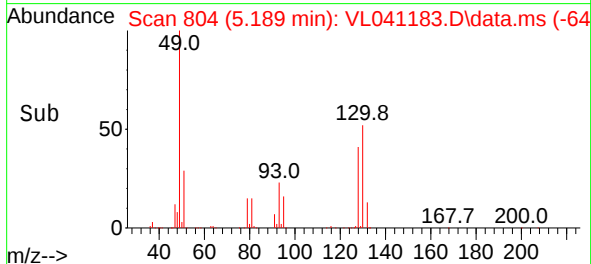
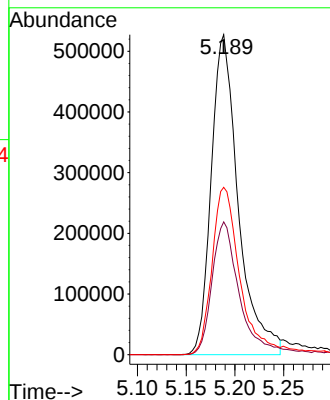
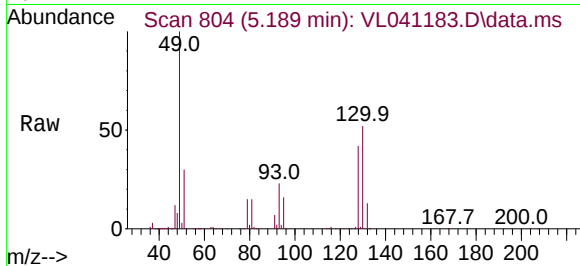




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.189 min Scan# 804  
 Delta R.T. -0.000 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

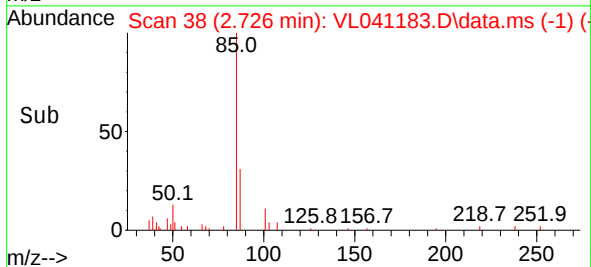
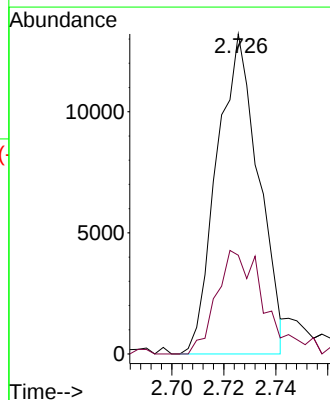
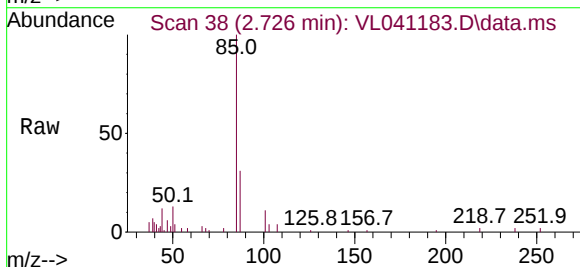
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
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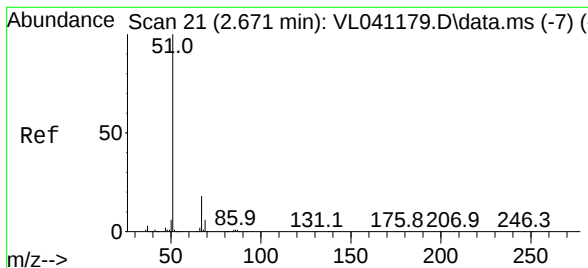
Tgt Ion: 49 Resp: 1020722  
 Ion Ratio Lower Upper  
 49 100  
 128 43.4 21.5 64.5  
 130 56.7 27.2 81.6



#2  
 Dichlorodifluoromethane  
 Concen: 0.104 ppbv  
 RT: 2.726 min Scan# 38  
 Delta R.T. -0.000 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

Tgt Ion: 85 Resp: 14705  
 Ion Ratio Lower Upper  
 85 100  
 87 30.9 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.011 ppbv

RT: 2.986 min Scan# 119

Delta R.T. 0.315 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

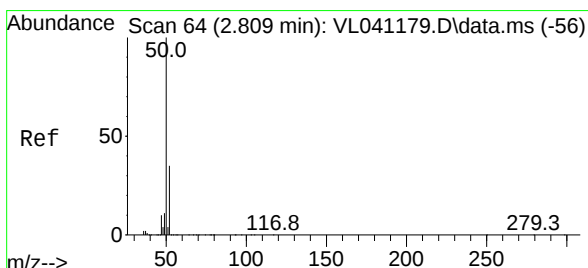
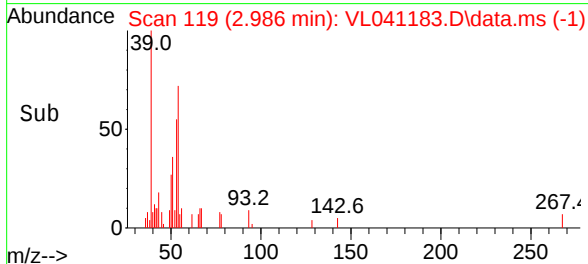
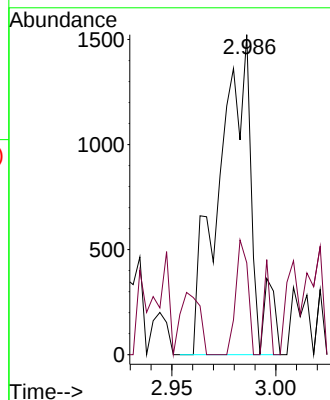
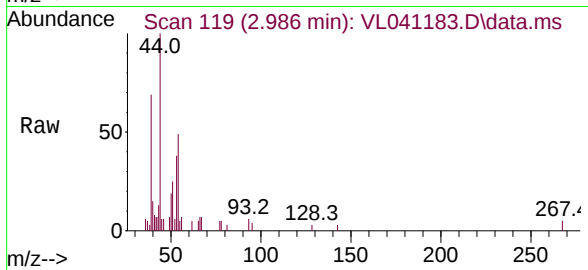
VSTDIC0.1

Tgt Ion: 51 Resp: 1703

Ion Ratio Lower Upper

51 100

67 18.1 14.0 21.0



#4

Chloromethane

Concen: 0.096 ppbv

RT: 2.809 min Scan# 64

Delta R.T. -0.000 min

Lab File: VL041183.D

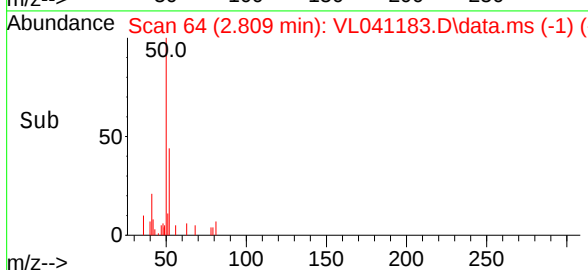
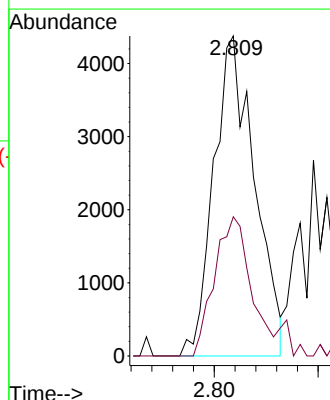
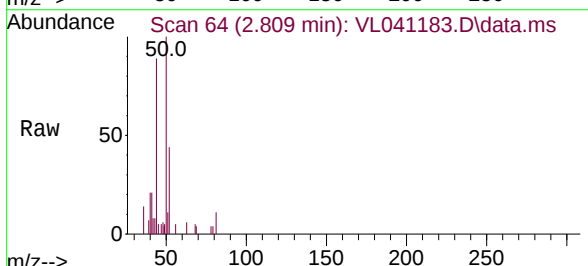
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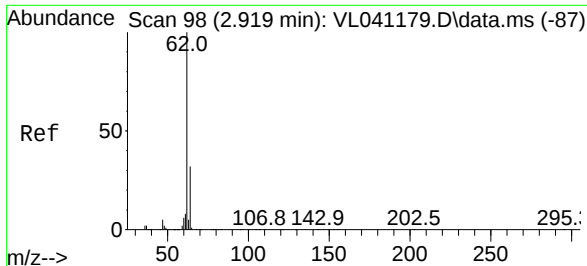
Tgt Ion: 50 Resp: 5954

Ion Ratio Lower Upper

50 100

52 43.5 28.3 42.5#

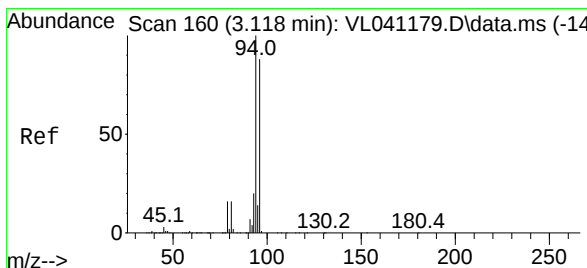
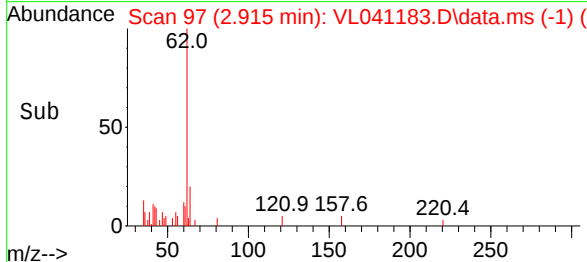
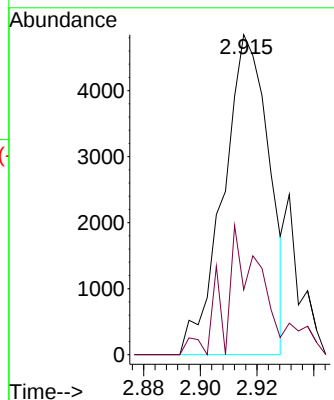
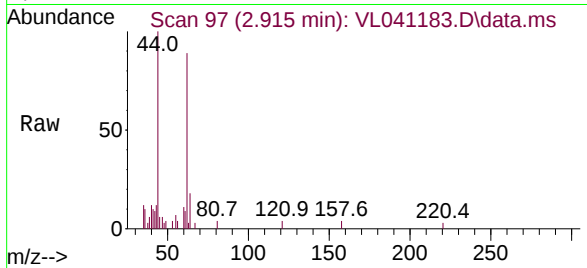




#5  
 Vinyl Chloride  
 Concen: 0.091 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. -0.003 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

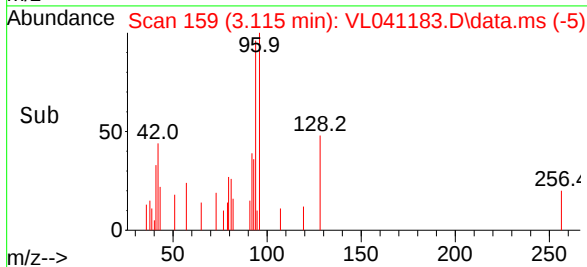
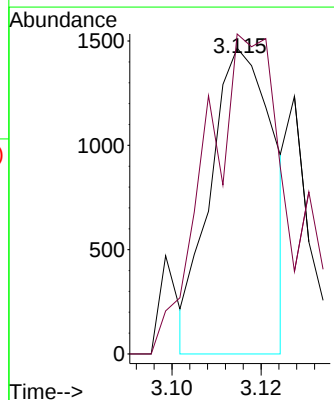
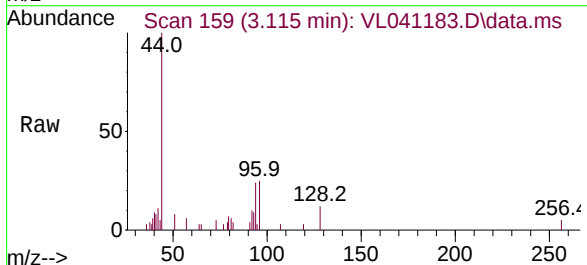
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

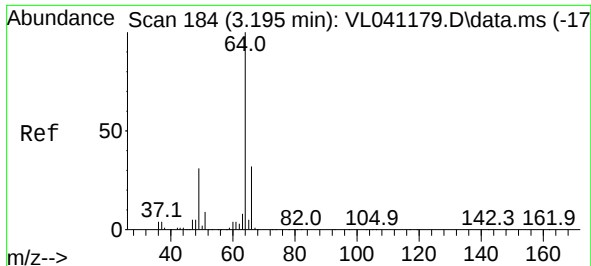
Tgt Ion: 62 Resp: 5437  
 Ion Ratio Lower Upper  
 62 100  
 64 20.3 25.7 38.5#



#6  
 Bromomethane  
 Concen: 0.064 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. -0.003 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

Tgt Ion: 94 Resp: 1435  
 Ion Ratio Lower Upper  
 94 100  
 96 90.0 70.1 105.1

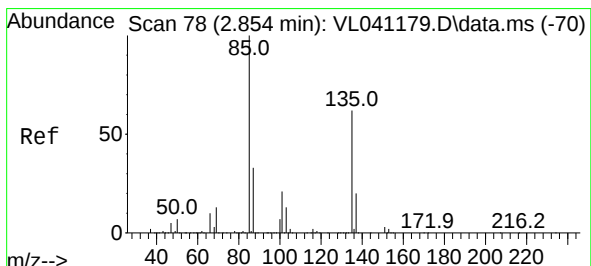
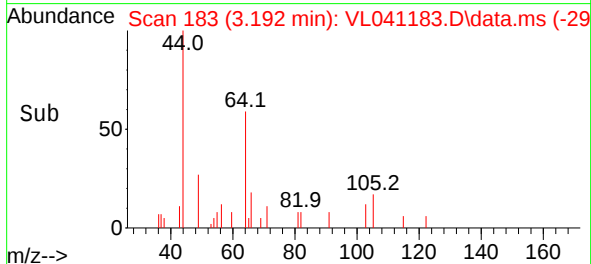
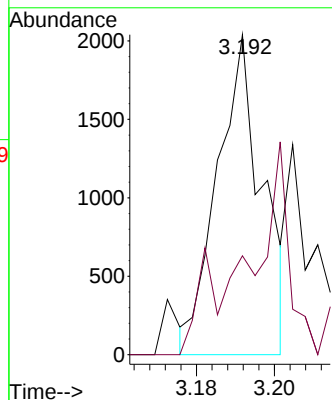
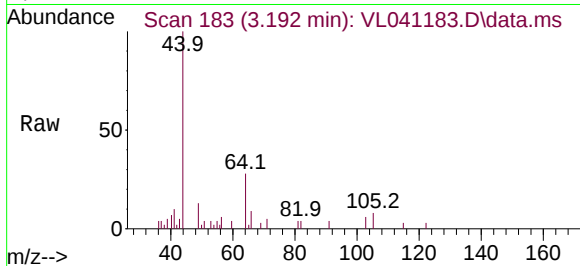




#7  
Chloroethane  
Concen: 0.075 ppbv  
RT: 3.192 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

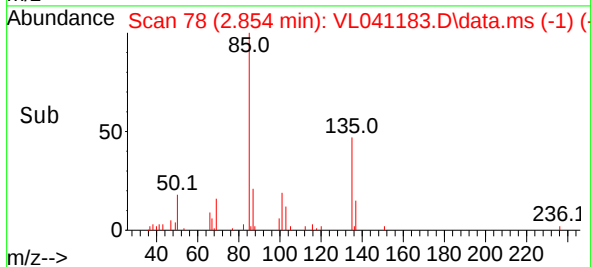
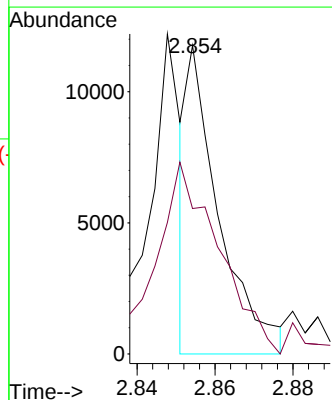
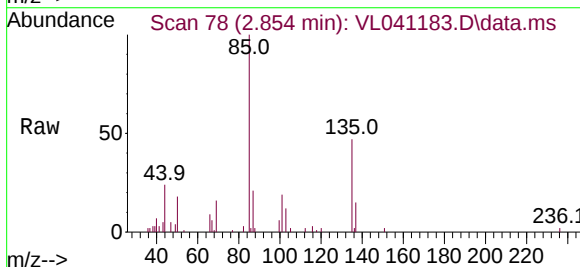
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

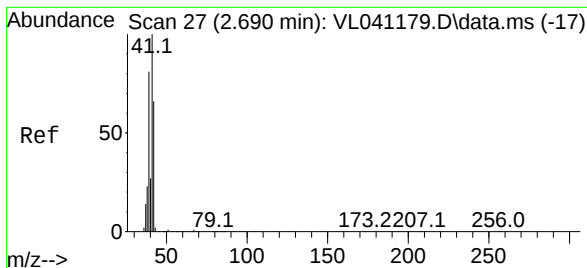
Tgt Ion: 64 Resp: 1629  
Ion Ratio Lower Upper  
64 100  
66 30.9 25.4 38.2



#8  
Dichlorotetrafluoroethane  
Concen: 0.047 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. -0.000 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion: 85 Resp: 6733  
Ion Ratio Lower Upper  
85 100  
135 132.9 51.5 77.3#





#9

Propene

Concen: 0.160 ppbv

RT: 2.690 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

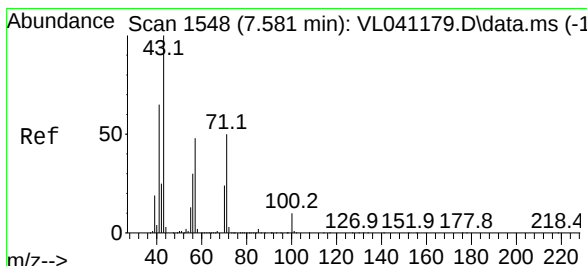
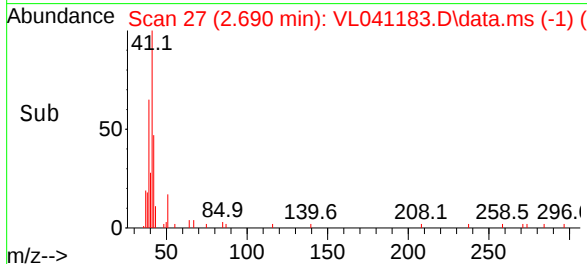
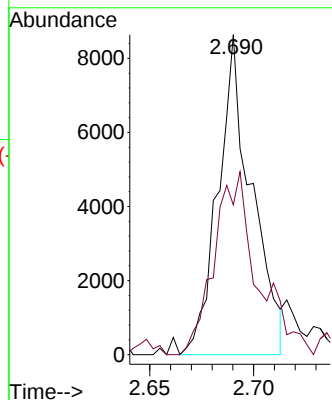
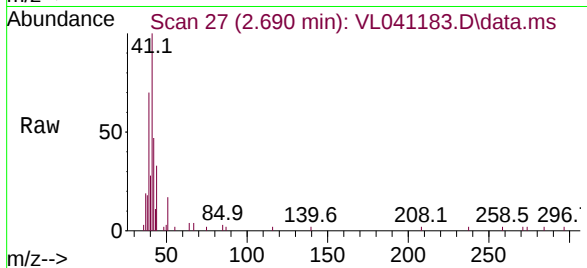
VSTDIC0.1

Tgt Ion: 41 Resp: 9707

Ion Ratio Lower Upper

41 100

42 77.2 55.3 82.9



#10

Heptane

Concen: 0.055 ppbv

RT: 7.577 min Scan# 1547

Delta R.T. -0.003 min

Lab File: VL041183.D

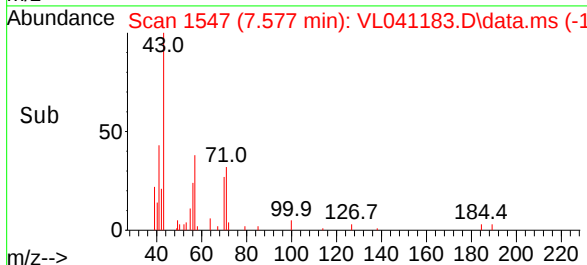
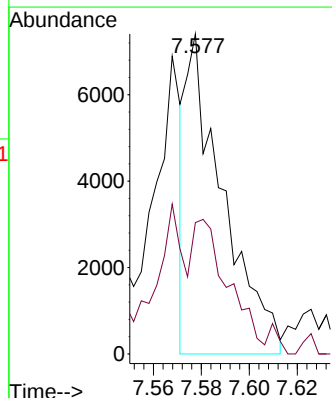
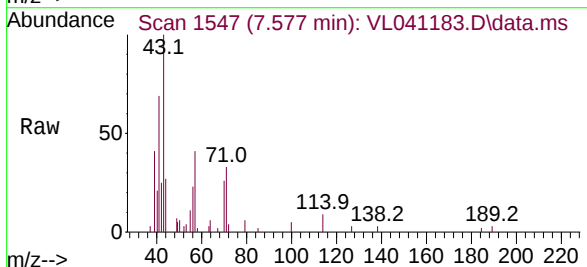
Acq: 29 Apr 2024 14:07

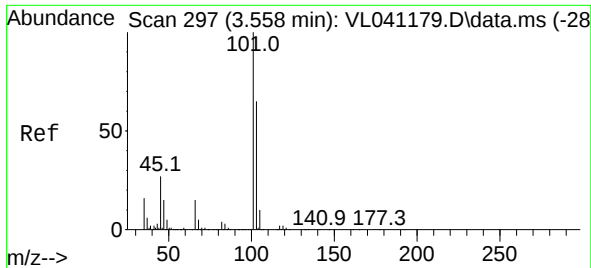
Tgt Ion: 43 Resp: 7932

Ion Ratio Lower Upper

43 100

57 0.0 38.7 58.1#





#11

Trichlorofluoromethane

Concen: 0.096 ppbv

RT: 3.558 min Scan# 297

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

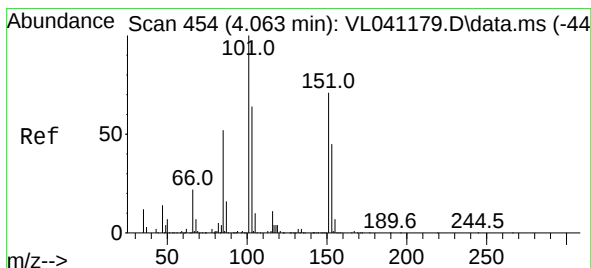
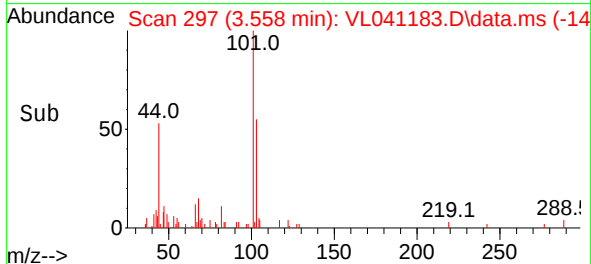
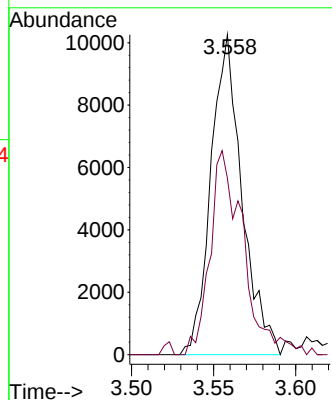
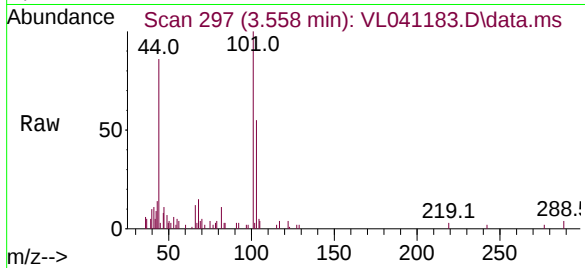
VSTDIC0.1

Tgt Ion:101 Resp: 13496

Ion Ratio Lower Upper

101 100

103 55.2 51.6 77.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.060 ppbv

RT: 4.060 min Scan# 453

Delta R.T. -0.003 min

Lab File: VL041183.D

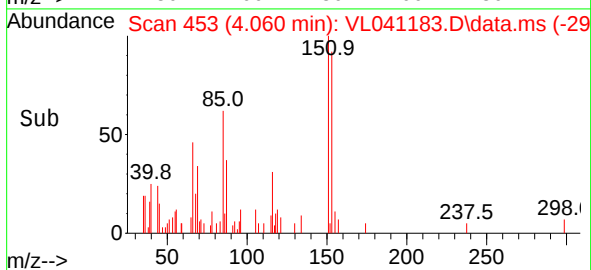
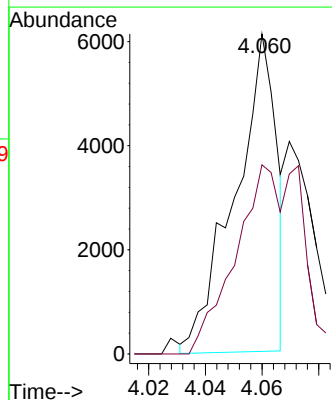
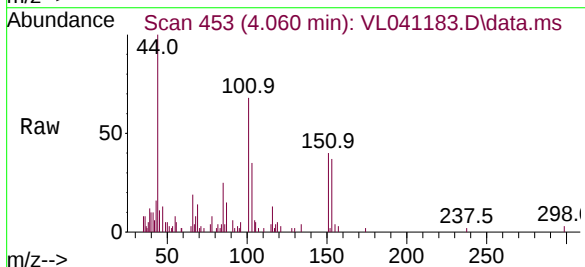
Acq: 29 Apr 2024 14:07

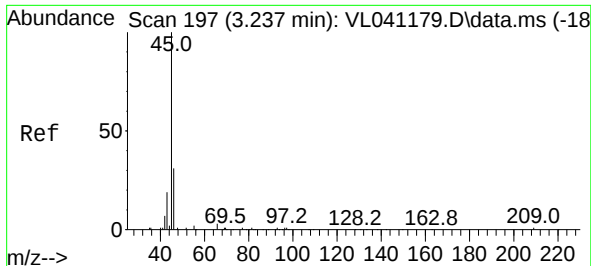
Tgt Ion:101 Resp: 6230

Ion Ratio Lower Upper

101 100

151 101.8 56.8 85.2#





#13

Ethanol

Concen: 0.026 ppbv

RT: 3.243 min Scan# 197

Delta R.T. 0.006 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

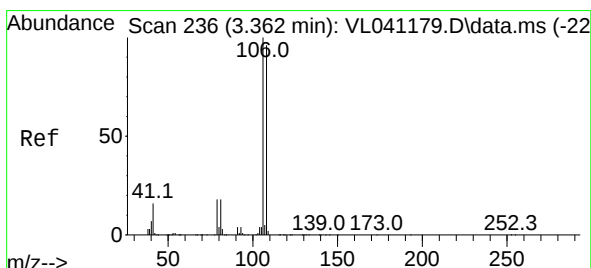
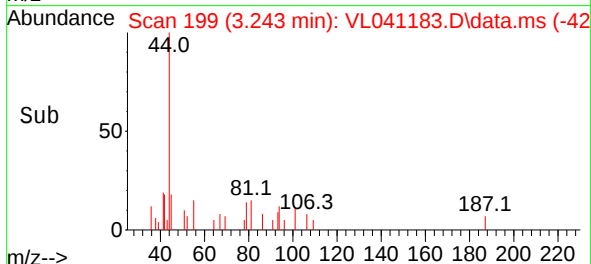
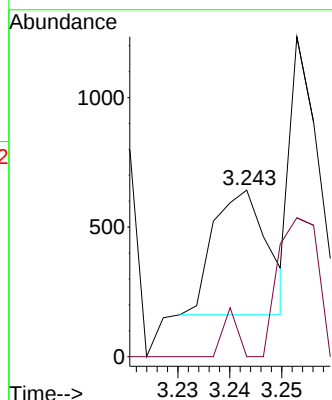
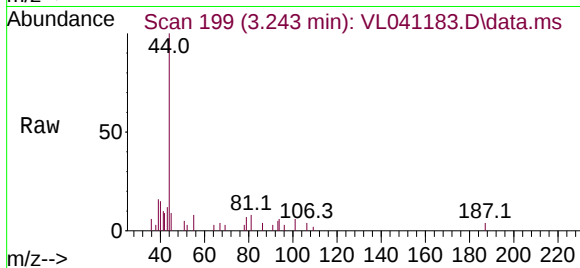
VSTDIC0.1

Tgt Ion: 45 Resp: 345

Ion Ratio Lower Upper

45 100

46 0.0 14.8 59.0#



#14

Bromoethene

Concen: 0.075 ppbv

RT: 3.362 min Scan# 236

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

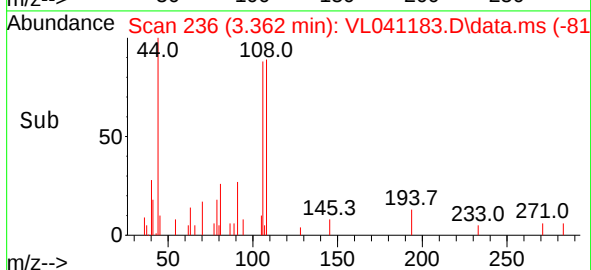
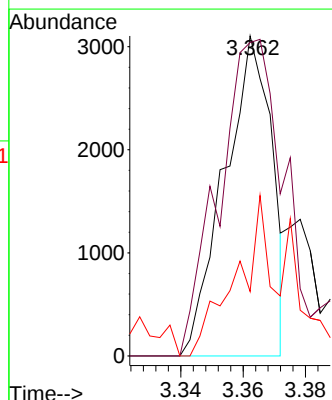
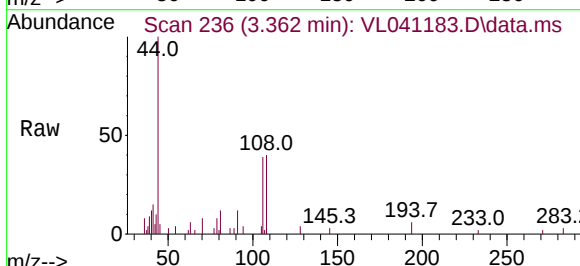
Tgt Ion: 108 Resp: 3290

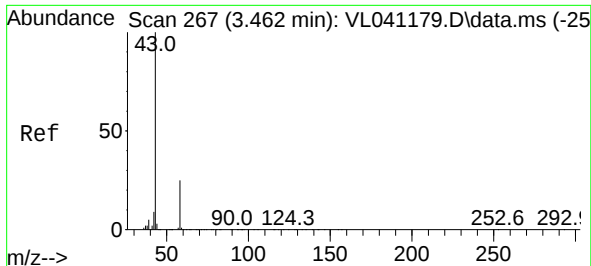
Ion Ratio Lower Upper

108 100

106 148.1 88.2 132.4#

79 61.0 17.4 26.0#





#15

Acetone

Concen: 0.004 ppbv

RT: 3.462 min Scan# 2

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

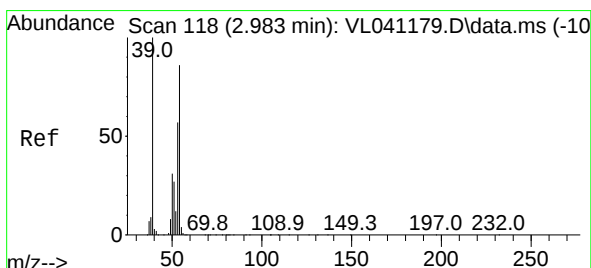
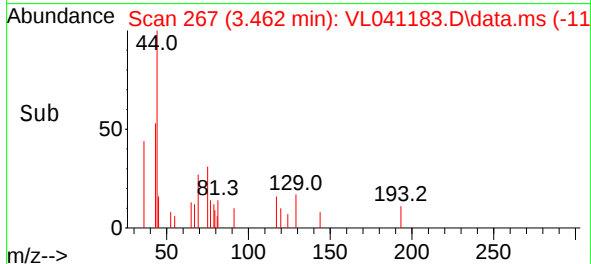
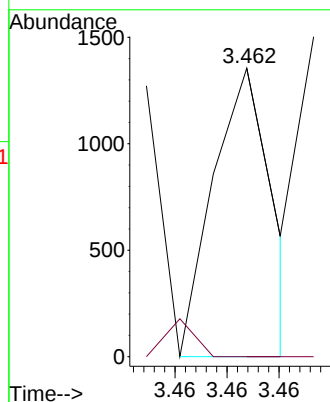
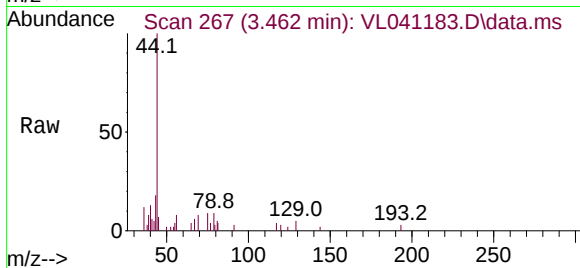
VSTDIC0.1

Tgt Ion: 43 Resp: 535

Ion Ratio Lower Upper

43 100

58 0.0 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.070 ppbv

RT: 2.983 min Scan# 118

Delta R.T. -0.000 min

Lab File: VL041183.D

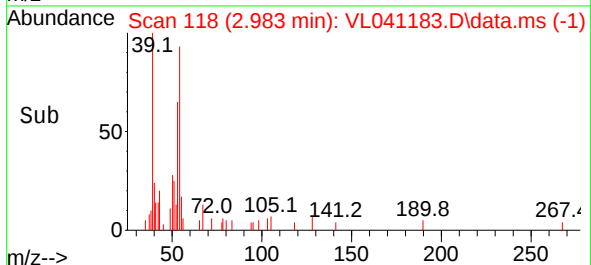
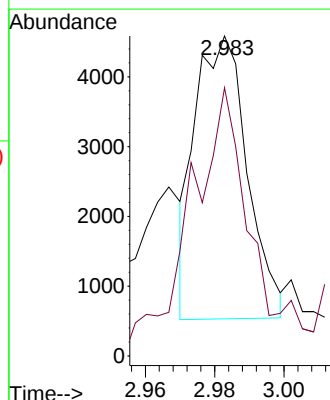
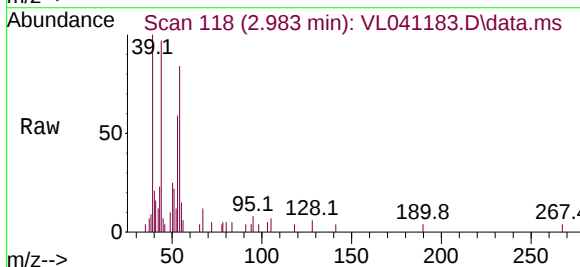
Acq: 29 Apr 2024 14:07

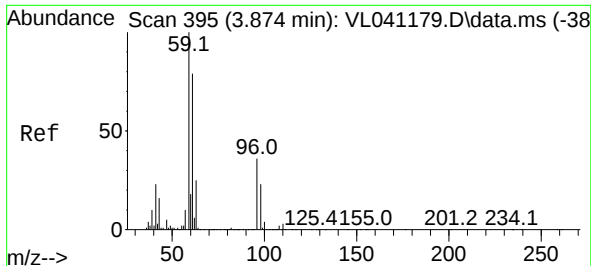
Tgt Ion: 39 Resp: 4220

Ion Ratio Lower Upper

39 100

54 123.3 62.2 93.4#





#17

tert-Butyl alcohol

Concen: 0.004 ppbv

RT: 3.880 min Scan# 397

Delta R.T. 0.006 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

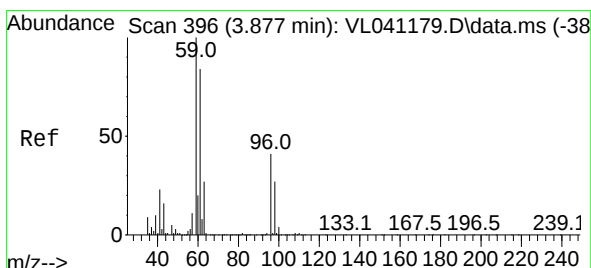
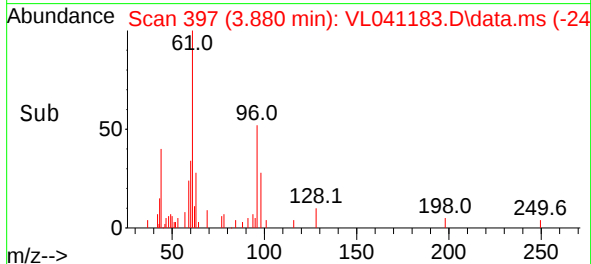
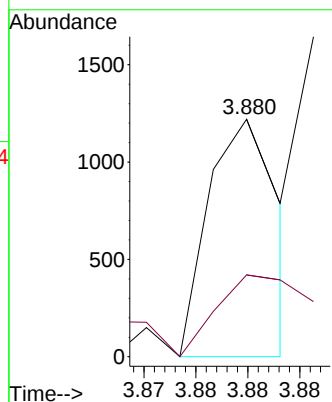
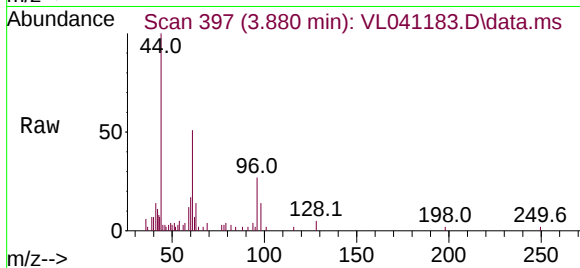
VSTDIC0.1

Tgt Ion: 59 Resp: 573

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.097 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

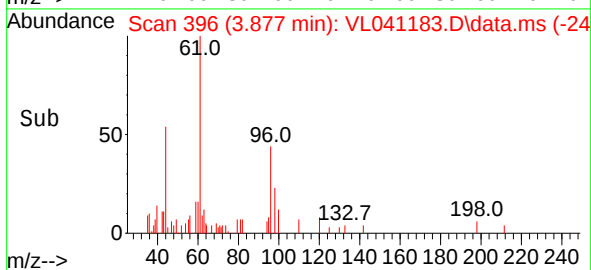
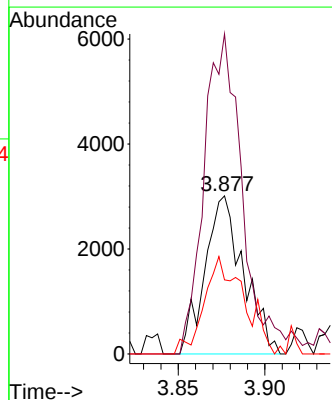
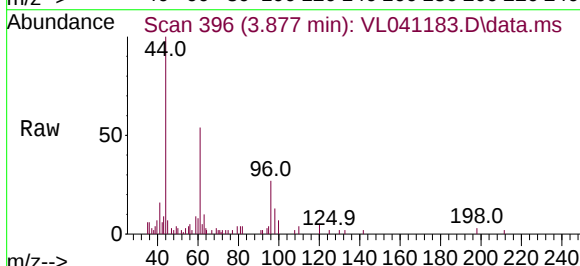
Tgt Ion: 96 Resp: 4668

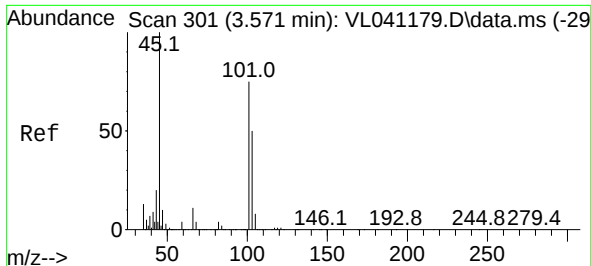
Ion Ratio Lower Upper

96 100

61 202.4 164.4 246.6

98 41.9 51.8 77.8#

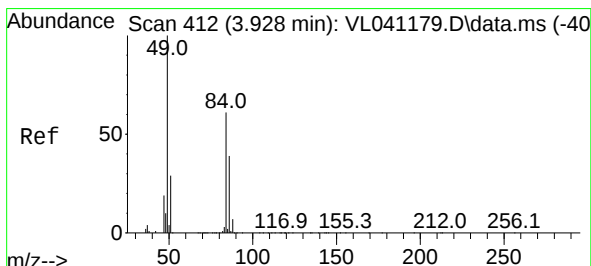
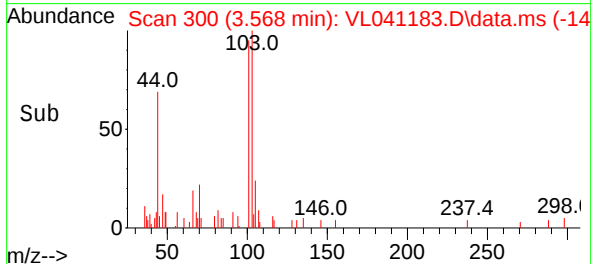
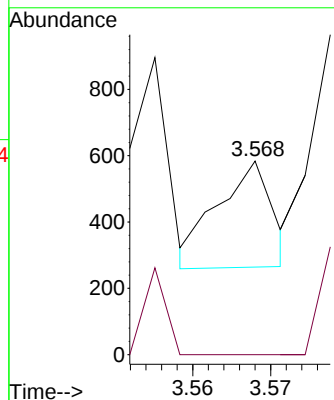
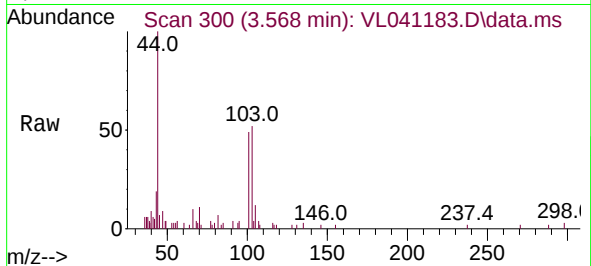




#19  
Isopropyl Alcohol  
Concen: 0.002 ppbv  
RT: 3.568 min Scan# 301  
Delta R.T. -0.003 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

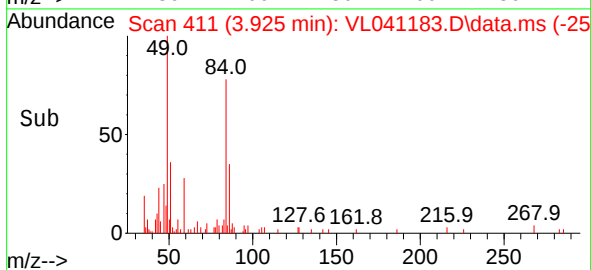
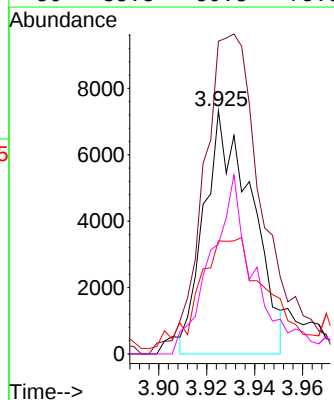
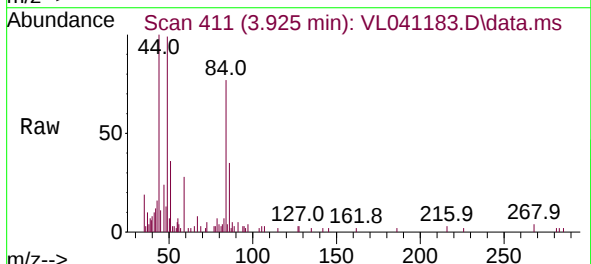
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

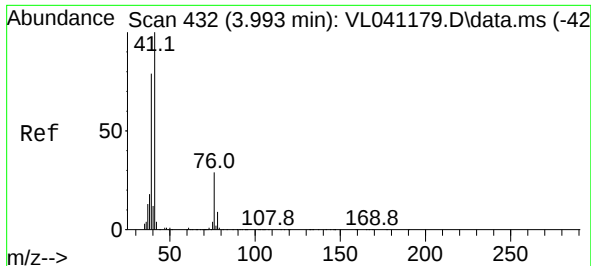
Tgt Ion: 45 Resp: 157  
Ion Ratio Lower Upper  
45 100  
58 0.0 26.8 40.2#



#20  
Methylene Chloride  
Concen: 0.238 ppbv  
RT: 3.925 min Scan# 411  
Delta R.T. -0.003 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion: 84 Resp: 10076  
Ion Ratio Lower Upper  
84 100  
49 123.6 130.4 195.6#  
51 36.2 38.0 57.0#  
86 38.8 50.3 75.5#





#21

Allyl Chloride

Concen: 0.096 ppbv

RT: 3.989 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

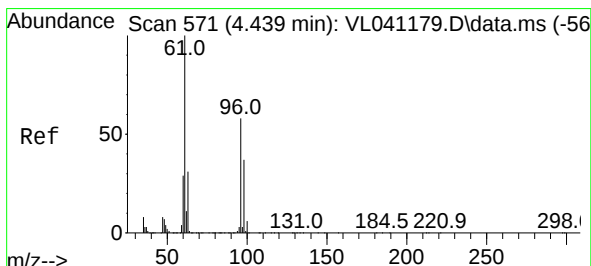
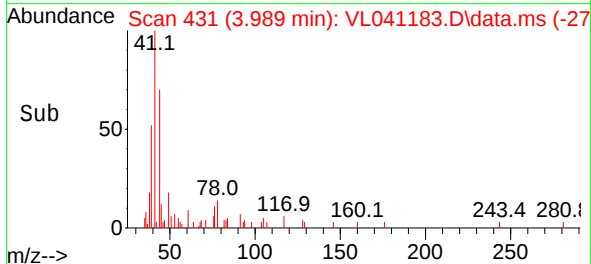
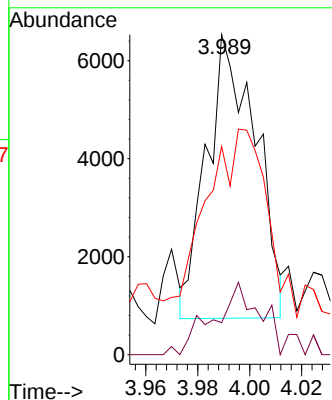
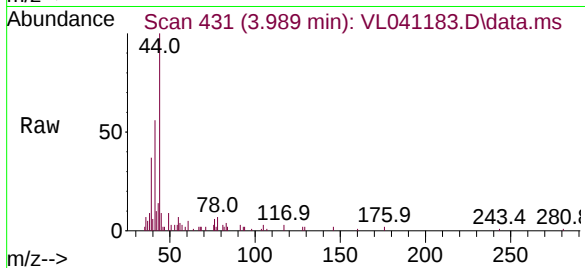
Tgt Ion: 41 Resp: 7588

Ion Ratio Lower Upper

41 100

76 25.9 23.7 35.5

39 120.4 64.7 97.1#



#22

trans-1,2-Dichloroethene

Concen: 0.061 ppbv

RT: 4.446 min Scan# 573

Delta R.T. 0.006 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

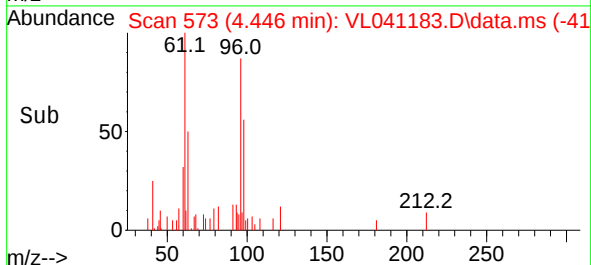
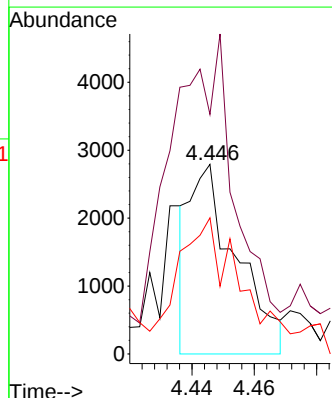
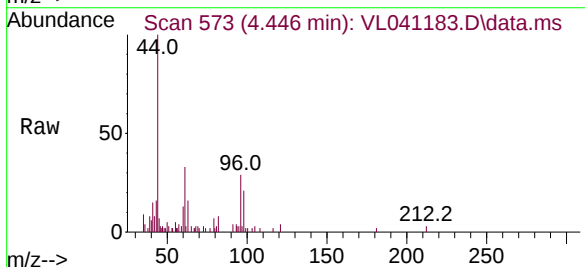
Tgt Ion: 96 Resp: 2914

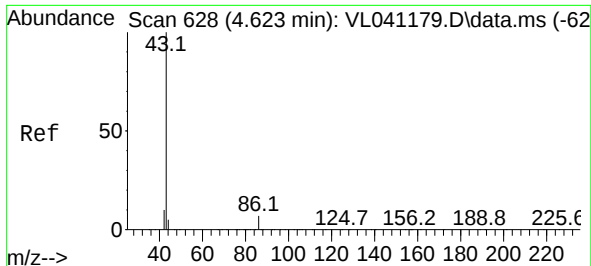
Ion Ratio Lower Upper

96 100

61 127.1 137.6 206.4#

98 66.7 50.6 76.0

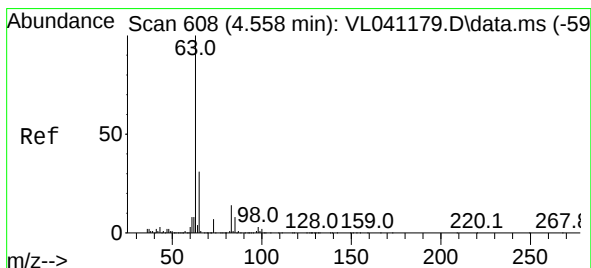
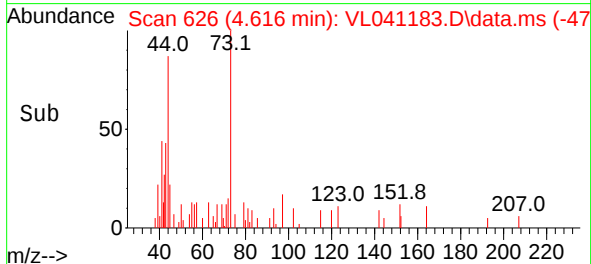
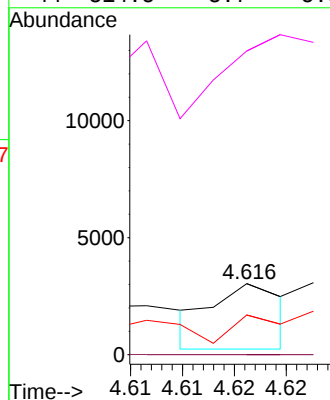
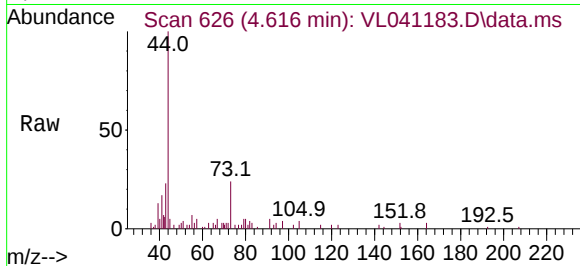




#23  
 Vinyl Acetate  
 Concen: 0.010 ppbv  
 RT: 4.616 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

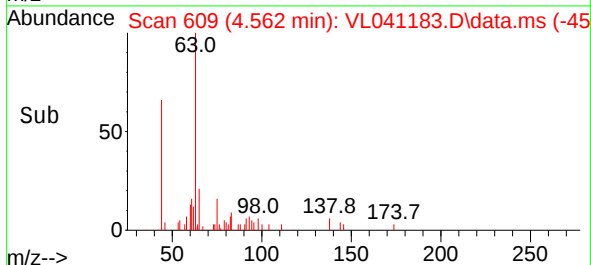
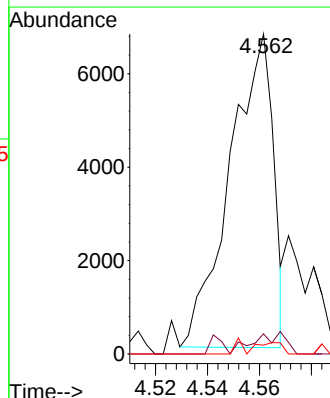
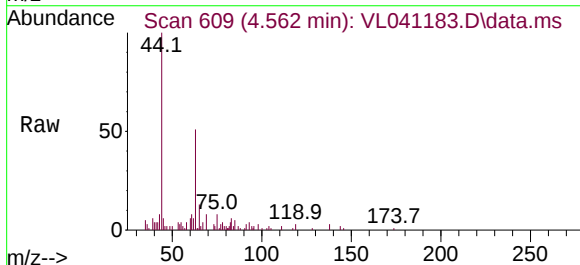
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

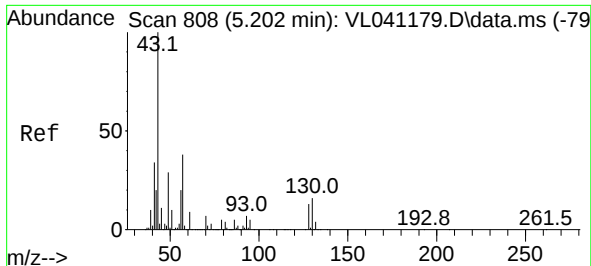
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1316  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 4.9   | 7.3#  |
| 42       | 36.0  | 8.0   | 12.0# |
| 44       | 314.5 | 3.7   | 5.5#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.075 ppbv  
 RT: 4.562 min Scan# 609  
 Delta R.T. 0.003 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 7792  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 6.5   | 1.6   | 4.8#  |
| 100      | 2.8   | 1.1   | 3.5   |





#25

Ethyl Acetate

Concen: 0.049 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.010 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 11699

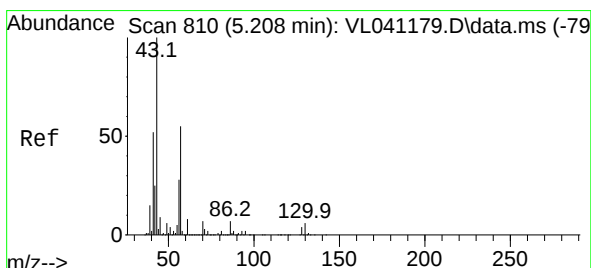
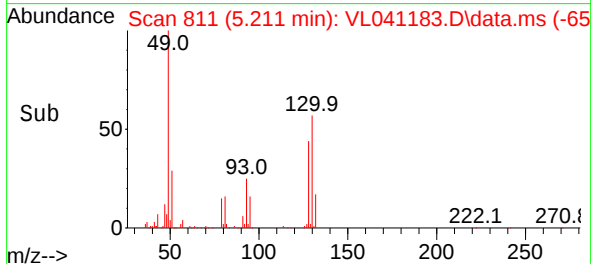
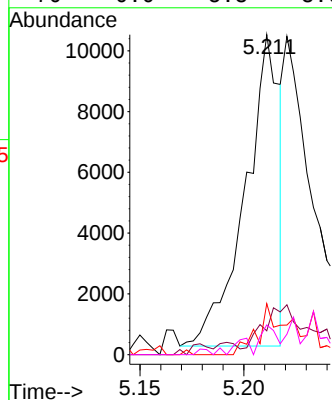
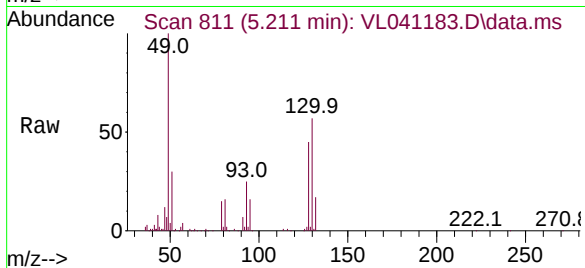
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.2#

61 18.6 7.7 11.5#

70 0.0 5.8 8.6#



#26

Hexane

Concen: 0.063 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Tgt Ion: 57 Resp: 6637

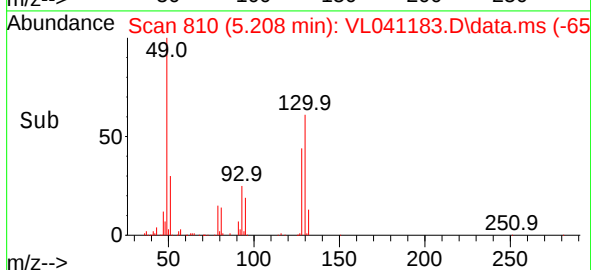
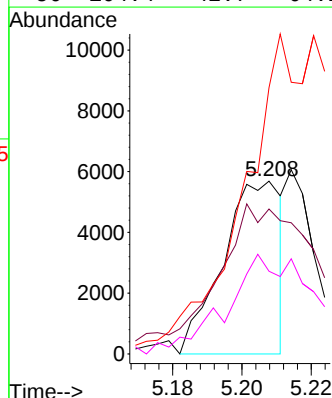
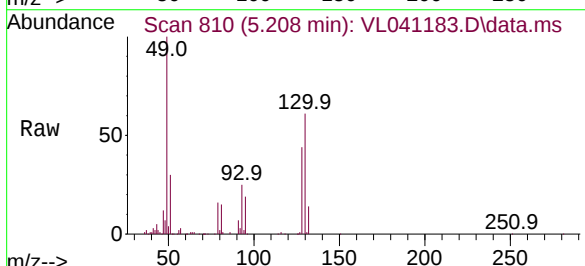
Ion Ratio Lower Upper

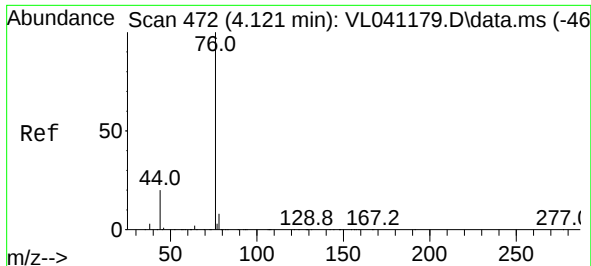
57 100

41 175.0 75.8 113.8#

43 0.0 187.0 280.4#

56 104.4 42.7 64.1#





#27

Carbon Disulfide

Concen: 0.094 ppbv

RT: 4.124 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

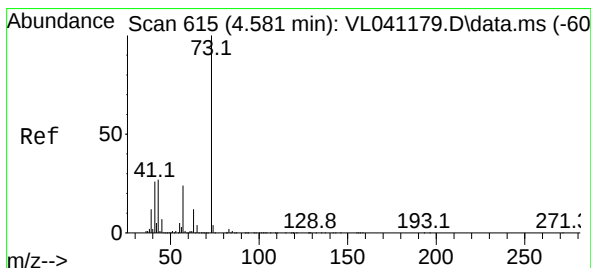
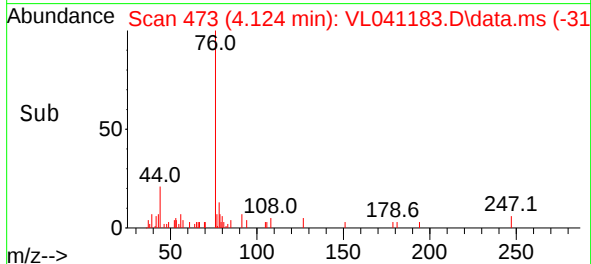
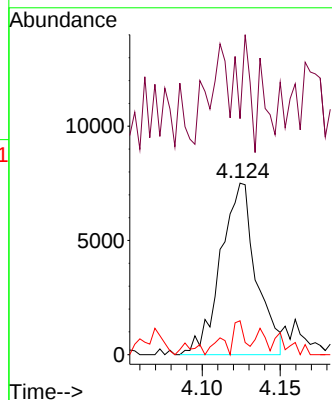
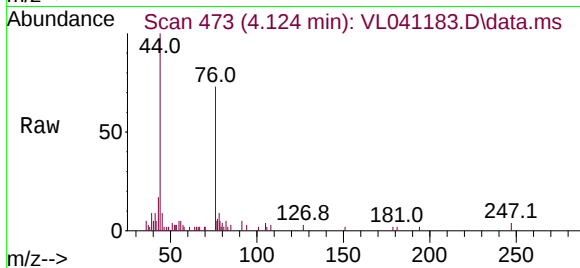
Tgt Ion: 76 Resp: 11843

Ion Ratio Lower Upper

76 100

44 67.7 16.3 24.5#

78 19.5 7.3 10.9#



#28

Methyl tert-Butyl Ether

Concen: 0.018 ppbv

RT: 4.584 min Scan# 616

Delta R.T. 0.003 min

Lab File: VL041183.D

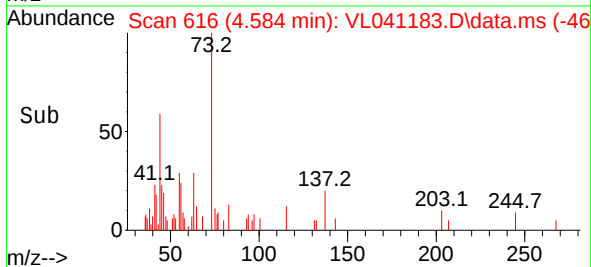
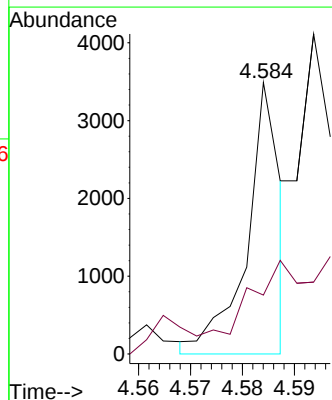
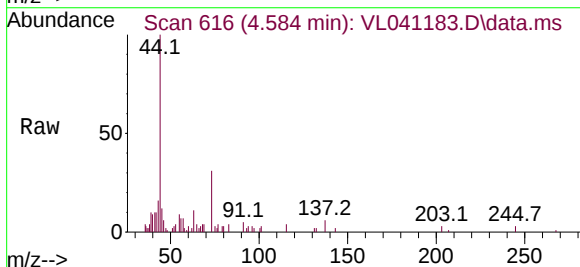
Acq: 29 Apr 2024 14:07

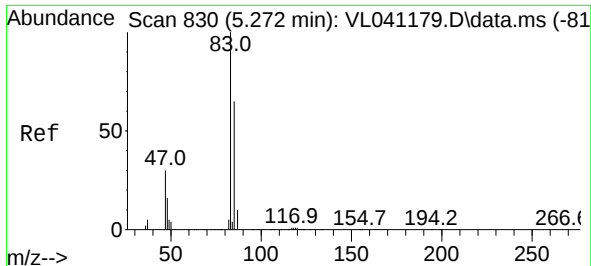
Tgt Ion: 73 Resp: 1559

Ion Ratio Lower Upper

73 100

57 0.0 18.8 28.2#





#29

Chloroform

Concen: 0.097 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

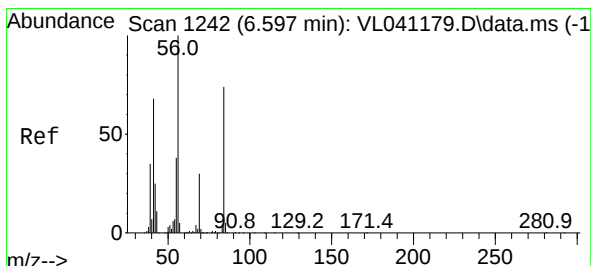
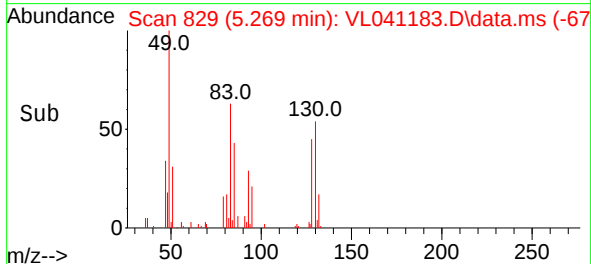
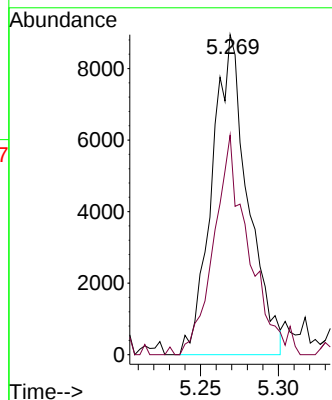
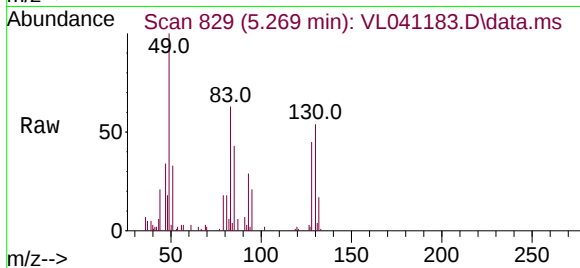
VSTDIC0.1

Tgt Ion: 83 Resp: 14378

Ion Ratio Lower Upper

83 100

85 68.6 51.7 77.5



#30

Cyclohexane

Concen: 0.062 ppbv

RT: 6.597 min Scan# 1242

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

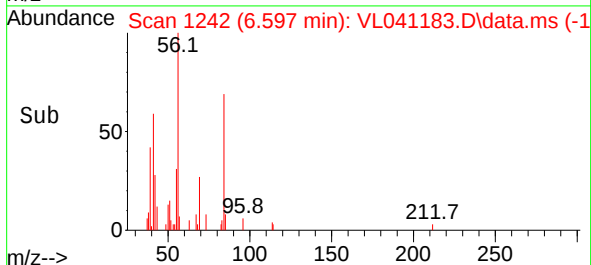
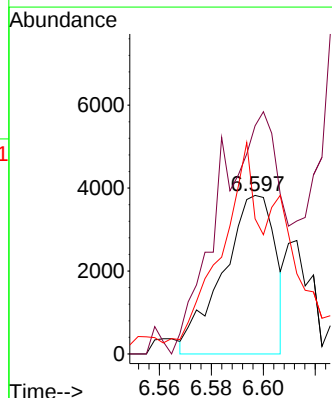
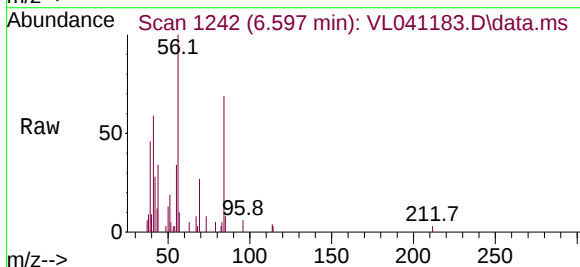
Tgt Ion: 84 Resp: 5338

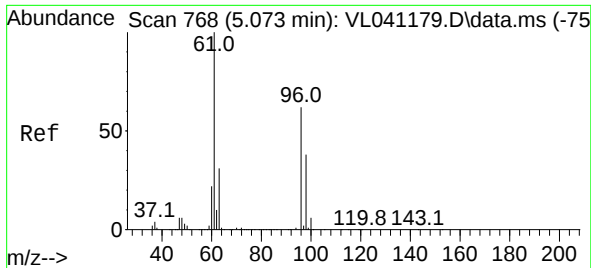
Ion Ratio Lower Upper

84 100

56 211.2 116.8 175.2#

41 196.6 73.8 110.8#





#31

cis-1,2-Dichloroethene

Concen: 0.004 ppbv

RT: 5.108 min Scan# 71

Delta R.T. 0.035 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

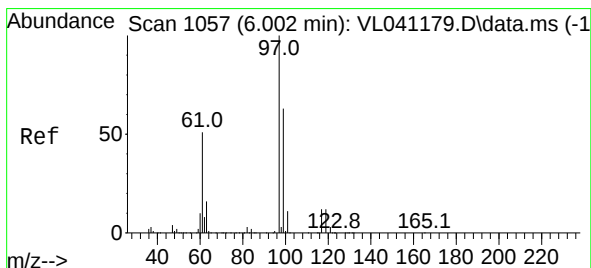
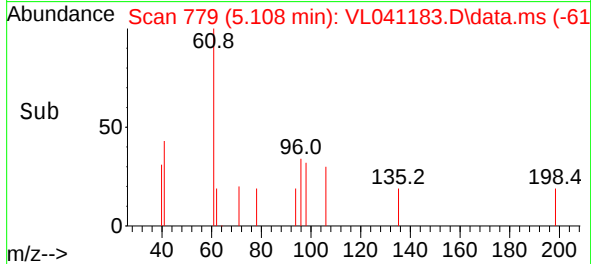
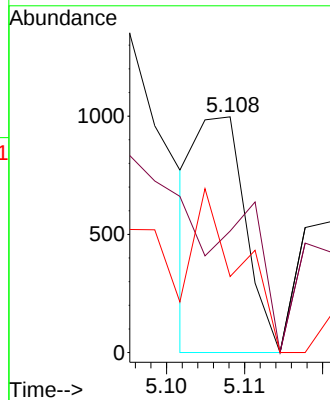
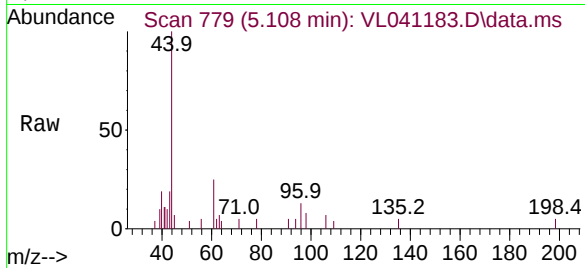
Tgt Ion: 61 Resp: 439

Ion Ratio Lower Upper

61 100

96 51.6 49.8 74.6

98 32.3 30.0 45.0



#32

1,1,1-Trichloroethane

Concen: 0.043 ppbv

RT: 6.002 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

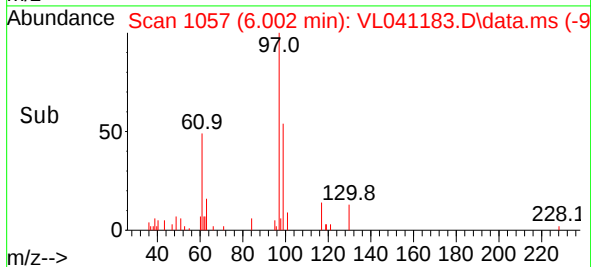
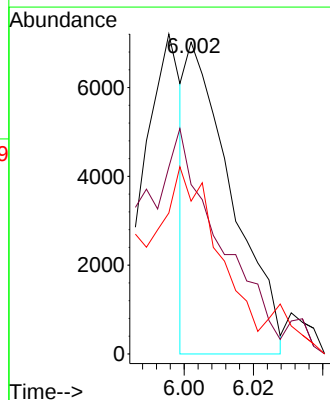
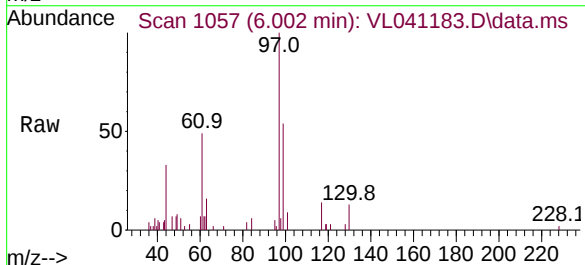
Tgt Ion: 97 Resp: 6325

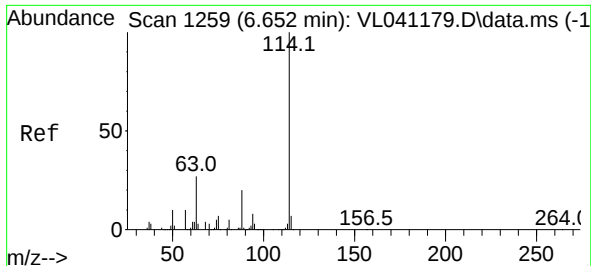
Ion Ratio Lower Upper

97 100

99 142.2 51.7 77.5#

61 122.4 41.1 61.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

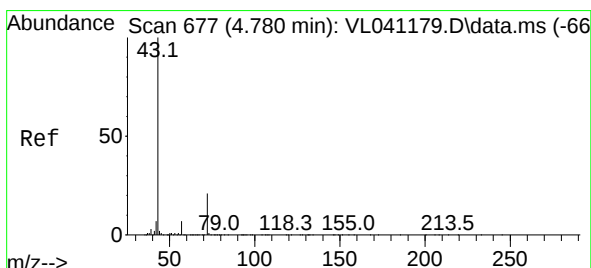
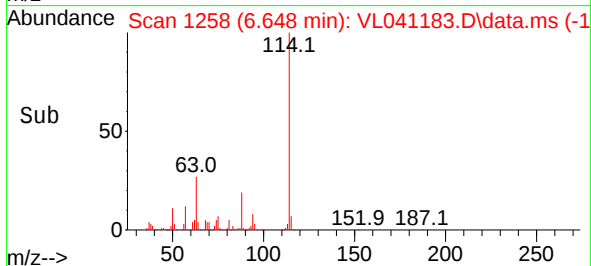
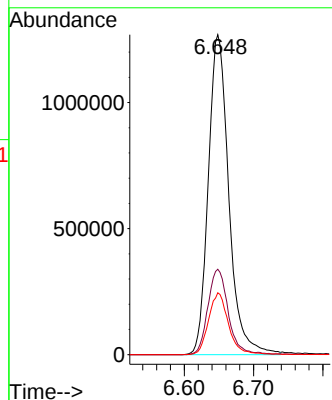
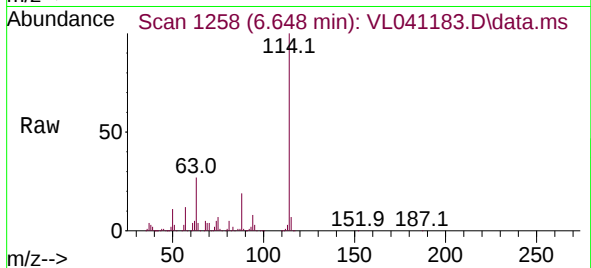
Tgt Ion:114 Resp: 2608461

Ion Ratio Lower Upper

114 100

63 26.8 21.8 32.6

88 18.9 15.2 22.8



#34

2-Butanone

Concen: 0.007 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL041183.D

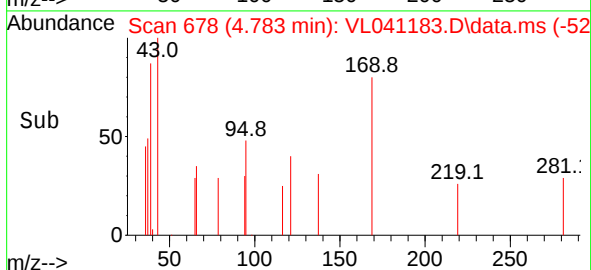
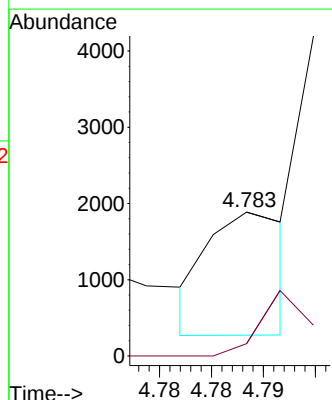
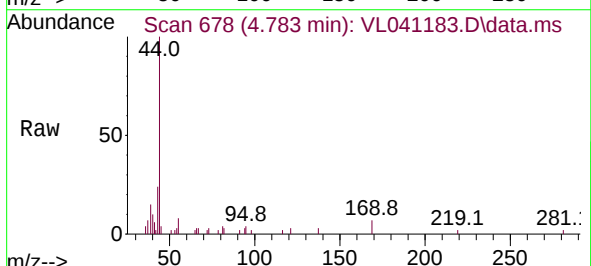
Acq: 29 Apr 2024 14:07

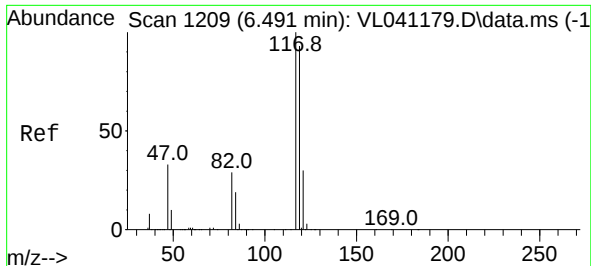
Tgt Ion: 43 Resp: 854

Ion Ratio Lower Upper

43 100

72 0.0 17.3 25.9#

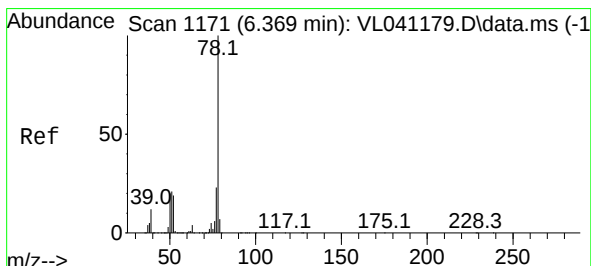
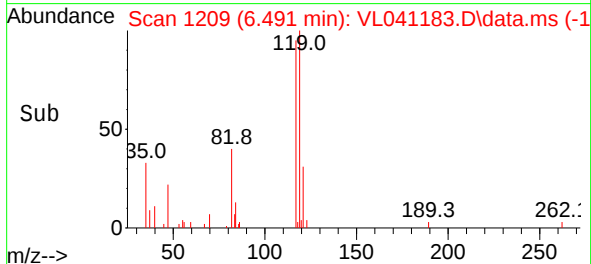
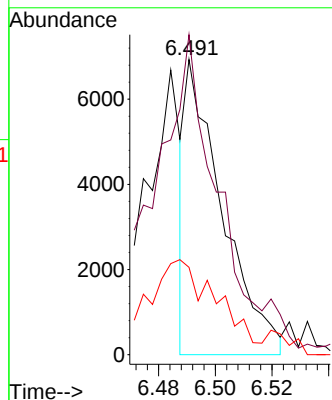
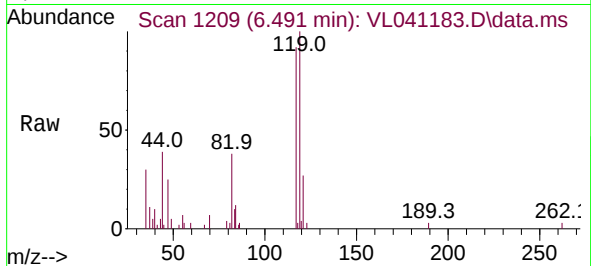




#35  
Carbon Tetrachloride  
Concen: 0.042 ppbv  
RT: 6.491 min Scan# 1171  
Delta R.T. -0.000 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

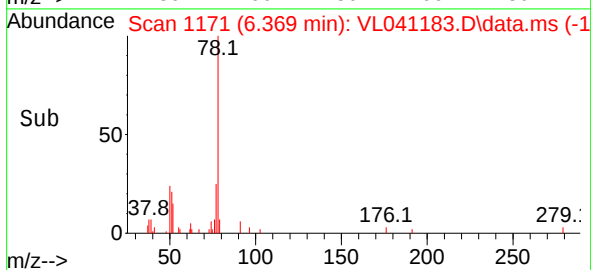
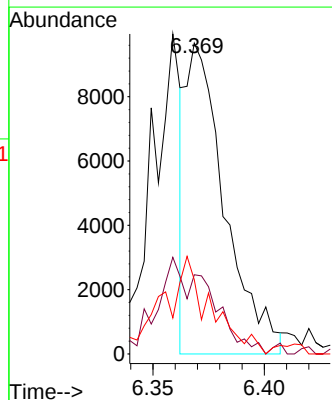
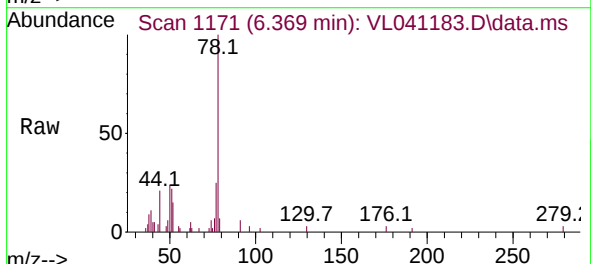
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

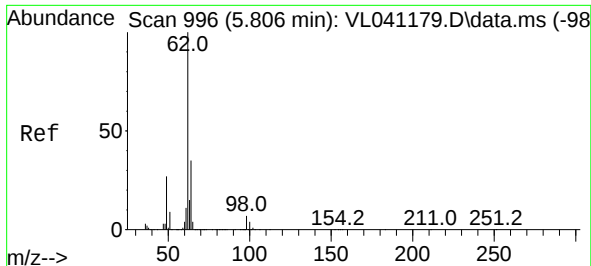
Tgt Ion:117 Resp: 6248  
Ion Ratio Lower Upper  
117 100  
119 100.7 74.3 111.5  
121 23.9 23.8 35.8



#36  
Benzene  
Concen: 0.053 ppbv  
RT: 6.369 min Scan# 1171  
Delta R.T. -0.000 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion: 78 Resp: 11739  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.3 27.5  
50 22.7 15.9 23.9





#37

1,2-Dichloroethane

Concen: 0.060 ppbv

RT: 5.803 min Scan# 996

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

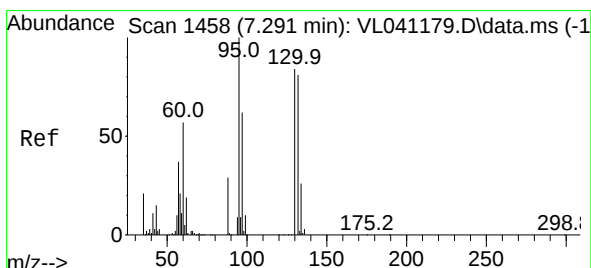
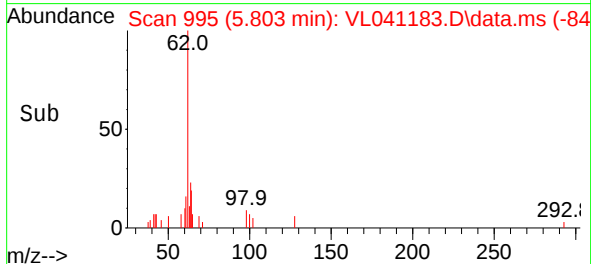
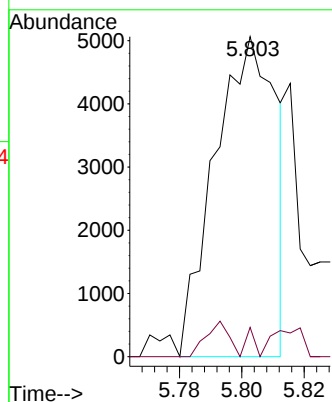
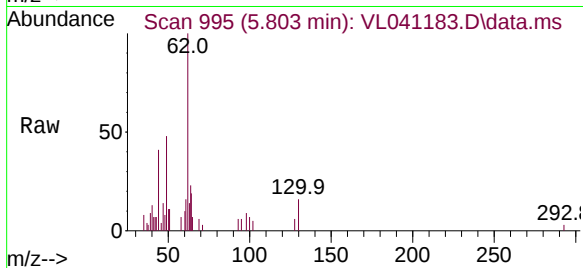
VSTDIC0.1

Tgt Ion: 62 Resp: 6889

Ion Ratio Lower Upper

62 100

98 5.4 5.0 7.4



#38

Trichloroethene

Concen: 0.066 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Tgt Ion:130 Resp: 5495

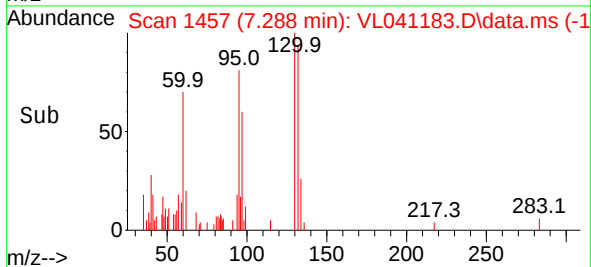
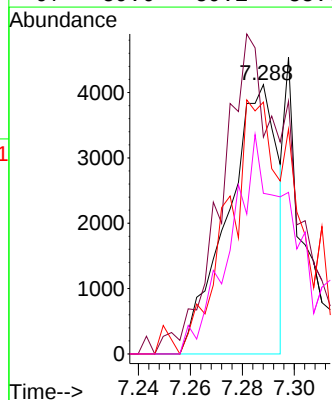
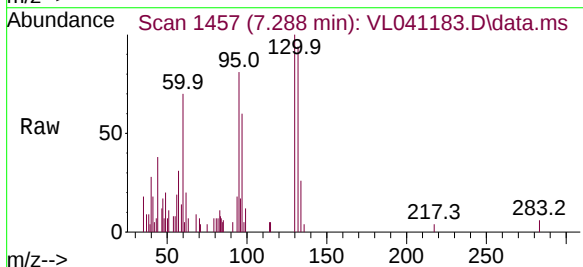
Ion Ratio Lower Upper

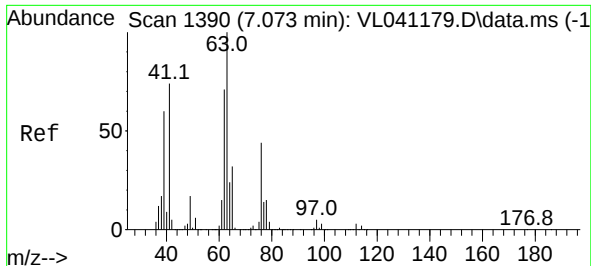
130 100

95 75.5 95.0 142.6#

132 93.5 77.0 115.4

97 59.6 59.1 88.7





#39

1,2-Dichloropropane

Concen: 8.055 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.425 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

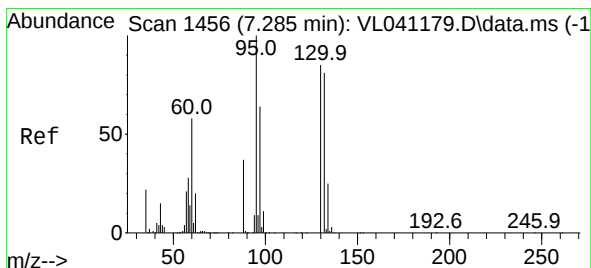
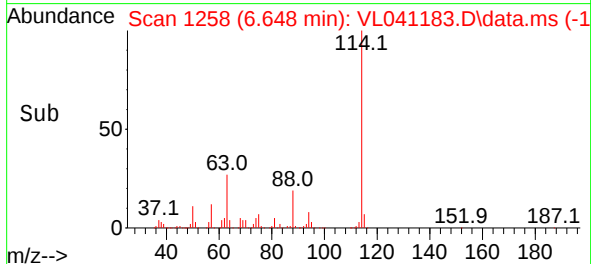
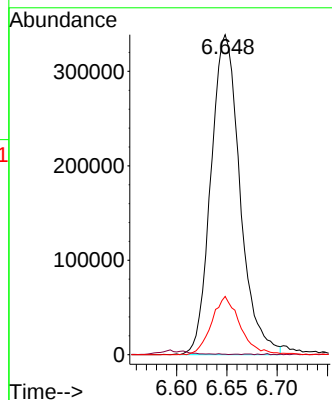
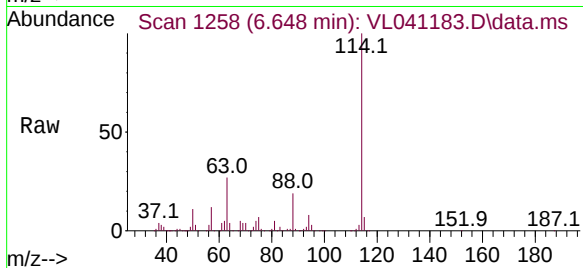
Tgt Ion: 63 Resp: 682842

Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 18.1 56.8 85.2#



#40

1,4-Dioxane

Concen: 0.002 ppbv

RT: 7.278 min Scan# 1454

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Tgt Ion: 88 Resp: 49

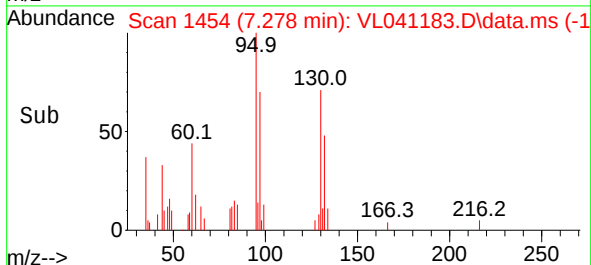
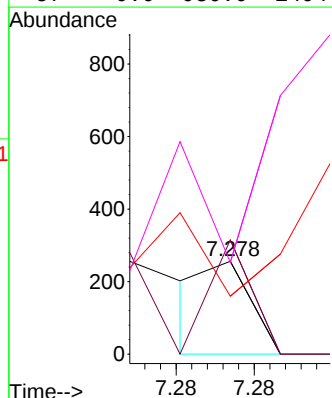
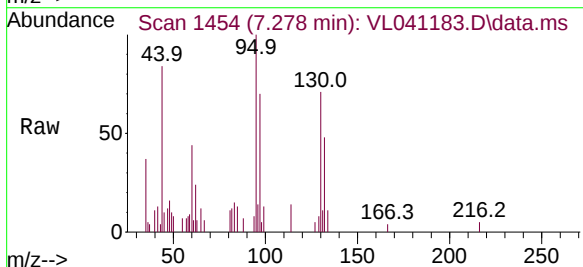
Ion Ratio Lower Upper

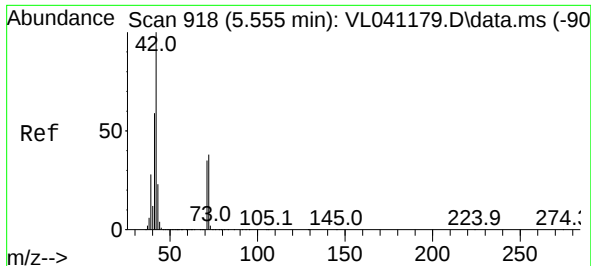
88 100

58 0.0 106.1 159.1#

43 0.0 219.8 329.6#

57 0.0 936.0 1404.0#





#41

Tetrahydrofuran

Concen: 0.002 ppbv

RT: 5.549 min Scan# 918

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

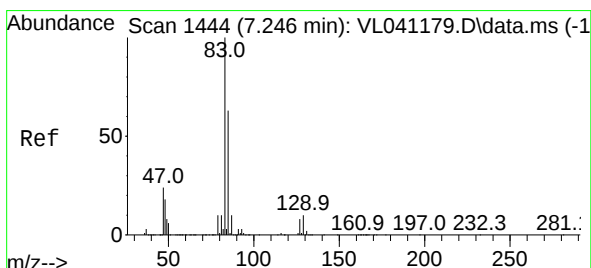
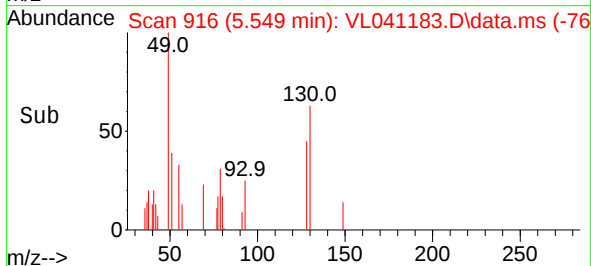
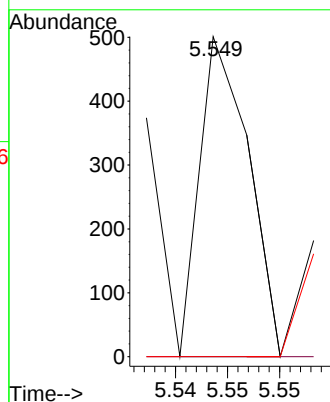
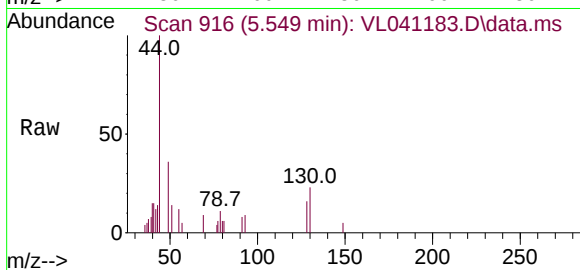
Tgt Ion: 42 Resp: 163

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 0.0 29.1 43.7#



#42

Bromodichloromethane

Concen: 0.037 ppbv

RT: 7.240 min Scan# 1442

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

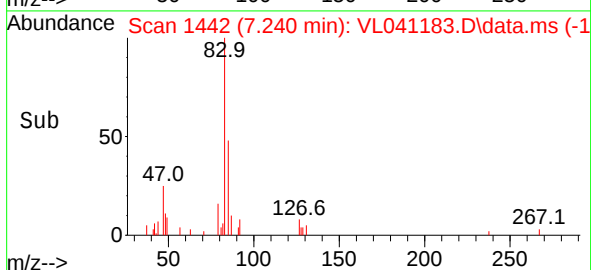
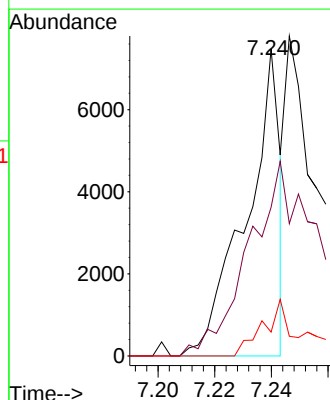
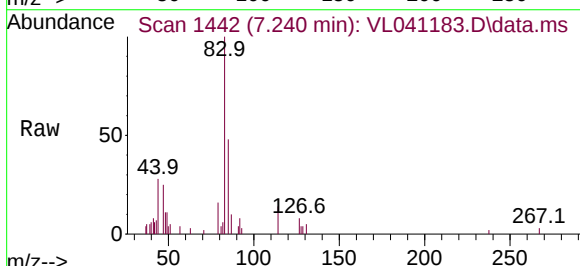
Tgt Ion: 83 Resp: 6157

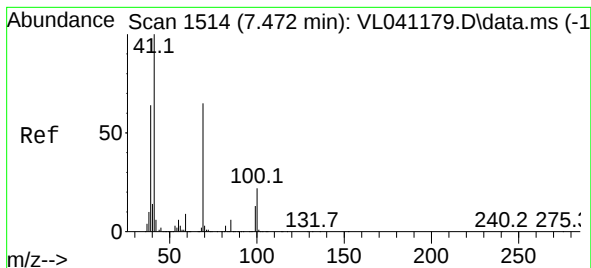
Ion Ratio Lower Upper

83 100

85 48.4 50.6 75.8#

127 11.7 6.2 9.4#





#43

Methyl Methacrylate

Concen: 0.018 ppbv

RT: 7.471 min Scan# 1514

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.1

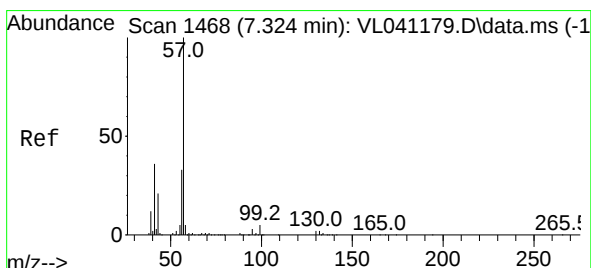
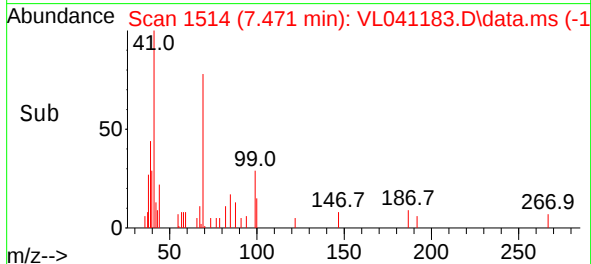
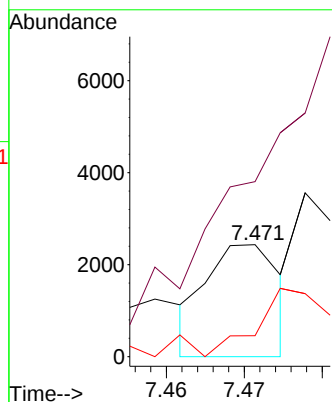
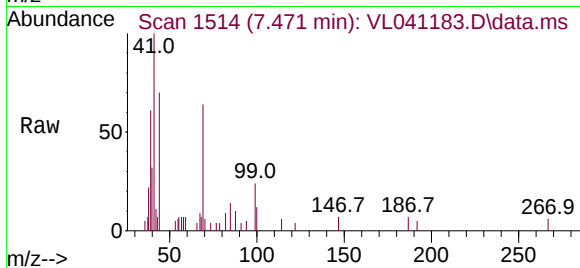
Tgt Ion: 69 Resp: 1587

Ion Ratio Lower Upper

69 100

41 0.0 125.2 187.8#

100 0.0 26.7 40.1#



#44

2,2,4-Trimethylpentane

Concen: 0.028 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. -0.010 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

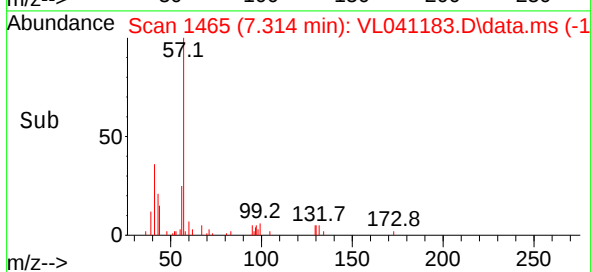
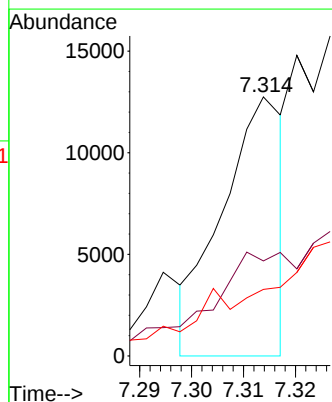
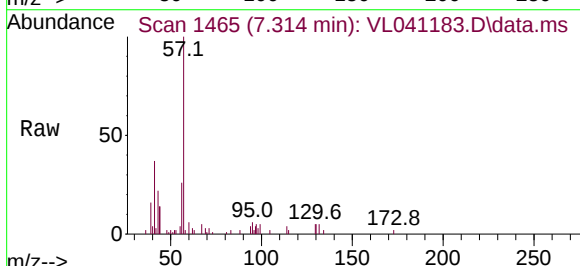
Tgt Ion: 57 Resp: 10460

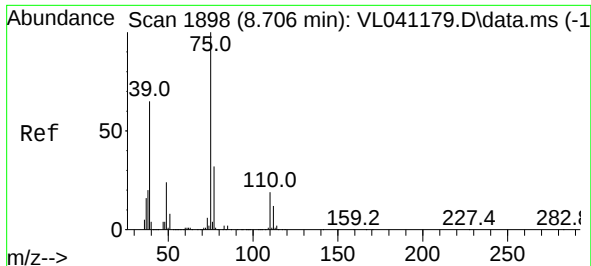
Ion Ratio Lower Upper

57 100

41 0.0 29.5 44.3#

56 0.0 25.3 37.9#





#45

t-1,3-Dichloropropene

Concen: 0.014 ppbv

RT: 8.729 min Scan# 11

Delta R.T. 0.022 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

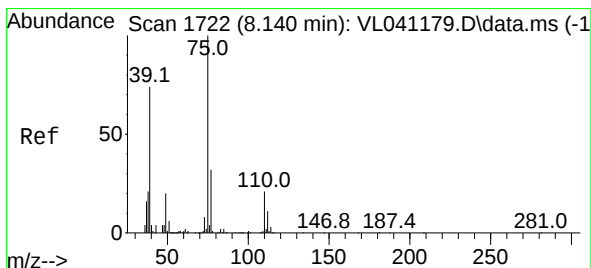
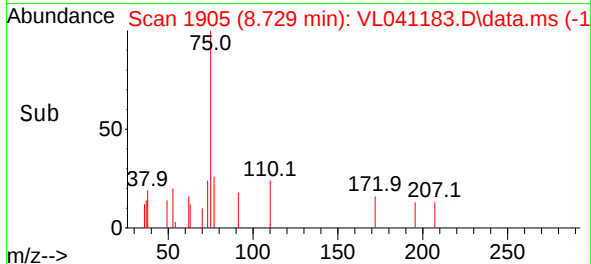
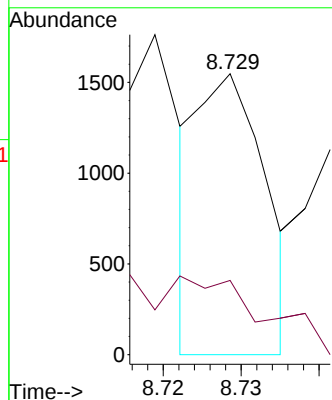
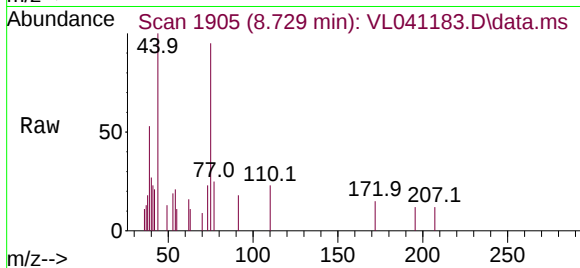
VSTDIC0.1

Tgt Ion: 75 Resp: 929

Ion Ratio Lower Upper

75 100

77 26.4 25.6 38.4



#46

cis-1,3-Dichloropropene

Concen: 0.024 ppbv

RT: 8.134 min Scan# 1720

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

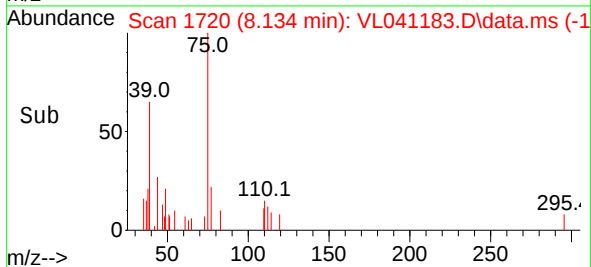
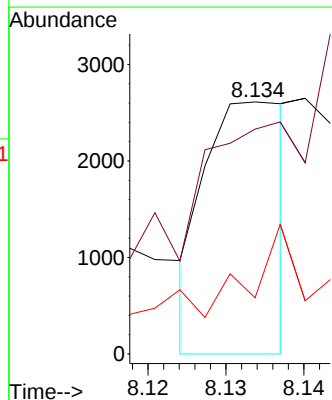
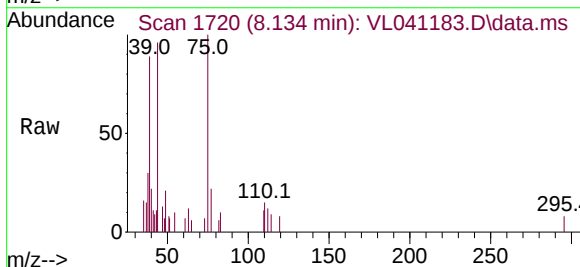
Tgt Ion: 75 Resp: 1881

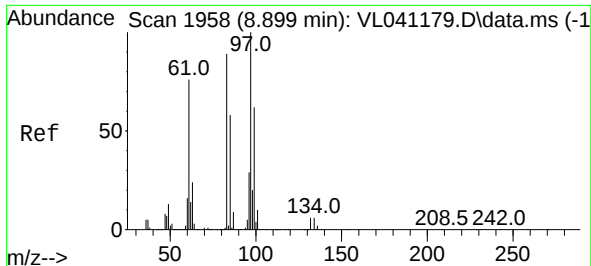
Ion Ratio Lower Upper

75 100

39 83.2 59.4 89.2

77 0.0 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.029 ppbv

RT: 8.893 min Scan# 1956

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

Tgt Ion: 97 Resp: 2462

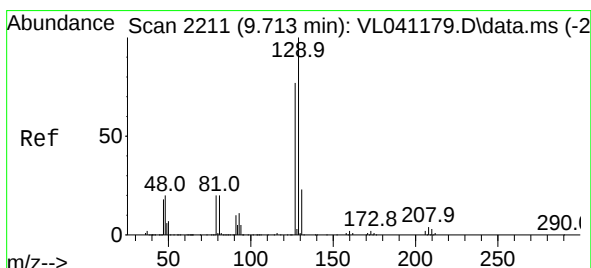
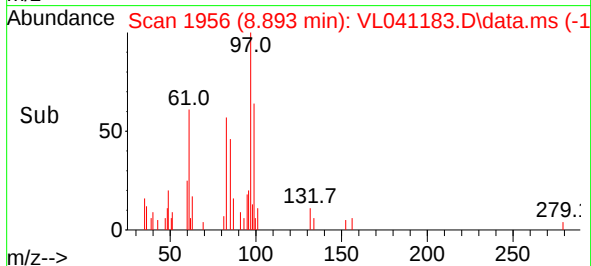
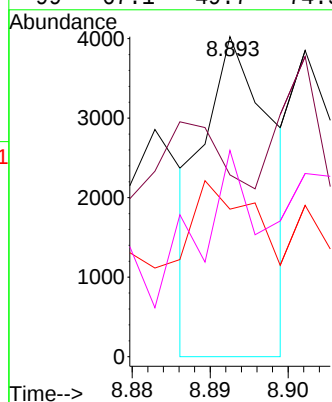
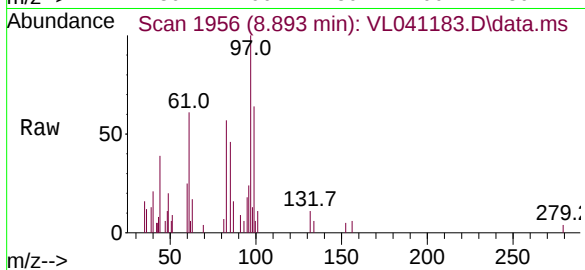
Ion Ratio Lower Upper

97 100

83 0.0 71.2 106.8#

85 42.6 46.0 69.0#

99 67.1 49.7 74.5



#48

Dibromochloromethane

Concen: 0.029 ppbv

RT: 9.712 min Scan# 2211

Delta R.T. -0.000 min

Lab File: VL041183.D

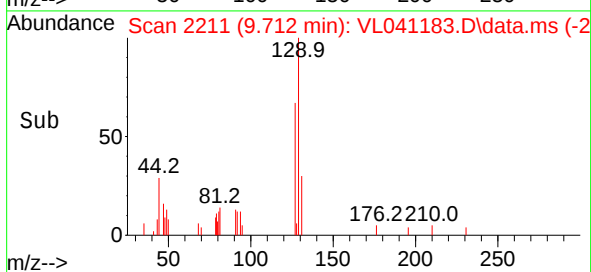
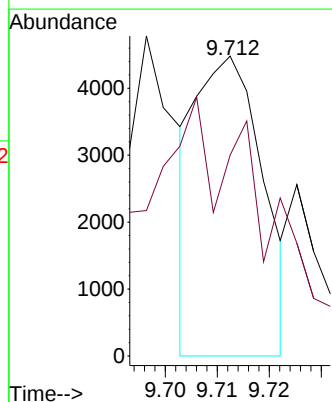
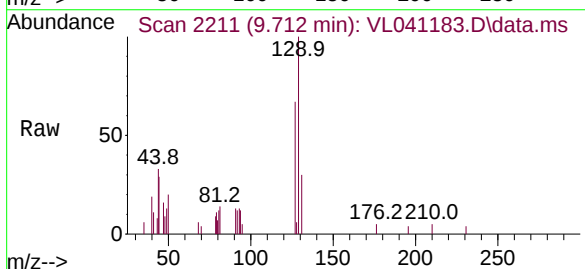
Acq: 29 Apr 2024 14:07

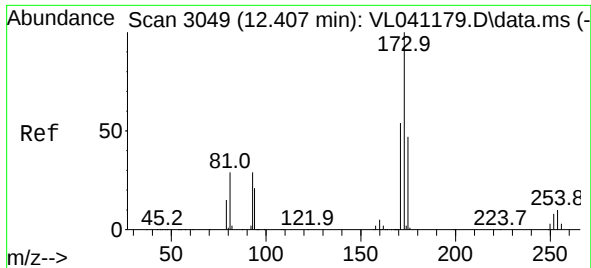
Tgt Ion: 129 Resp: 4025

Ion Ratio Lower Upper

129 100

127 198.9 39.1 117.5#





#49

Bromoform

Concen: 0.038 ppbv

RT: 12.394 min Scan# 3045

Delta R.T. -0.013 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

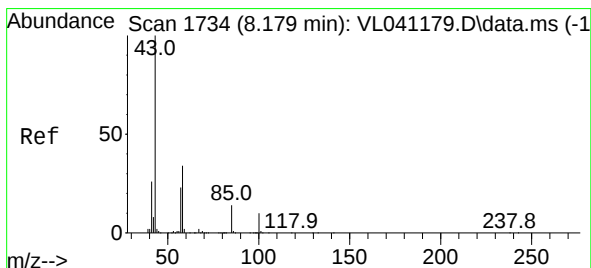
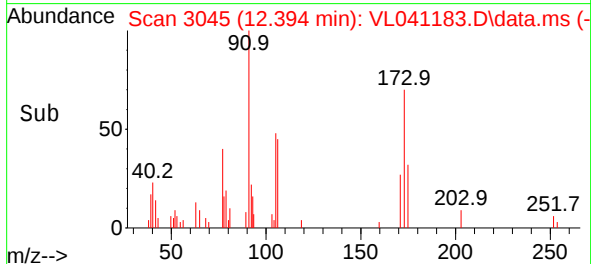
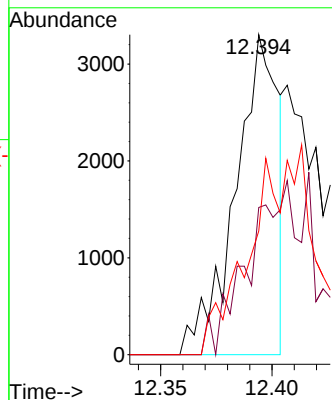
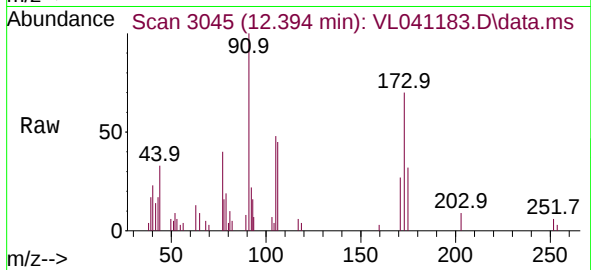
Tgt Ion:173 Resp: 4405

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.8#

171 0.0 41.8 62.8#



#50

4-Methyl-2-Pentanone

Concen: 0.002 ppbv

RT: 8.179 min Scan# 1734

Delta R.T. -0.000 min

Lab File: VL041183.D

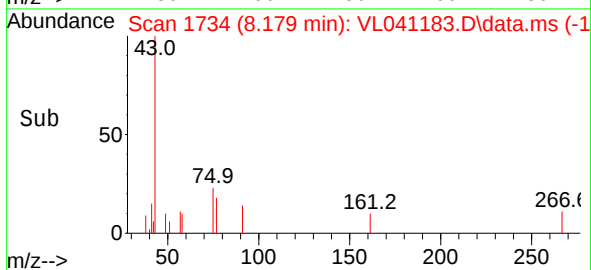
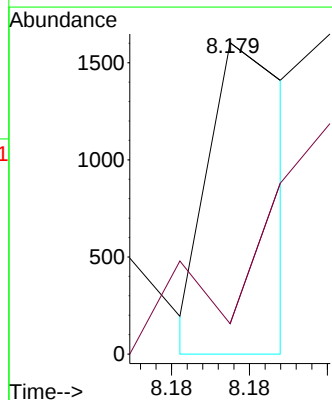
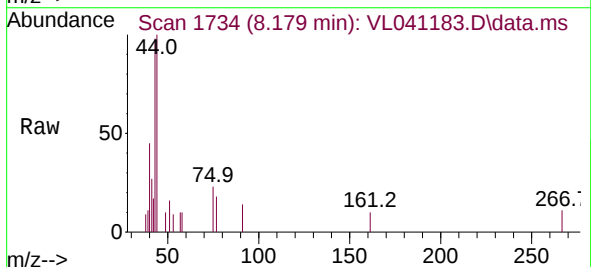
Acq: 29 Apr 2024 14:07

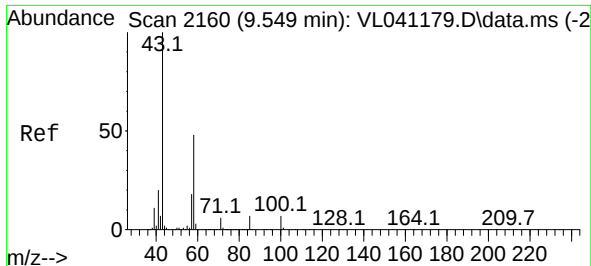
Tgt Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#

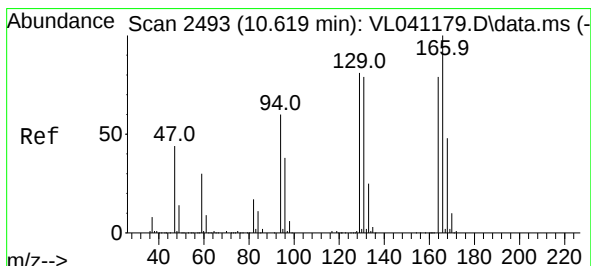
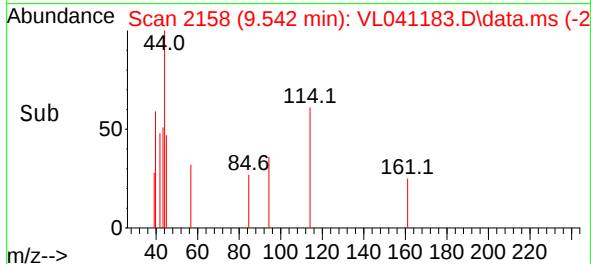
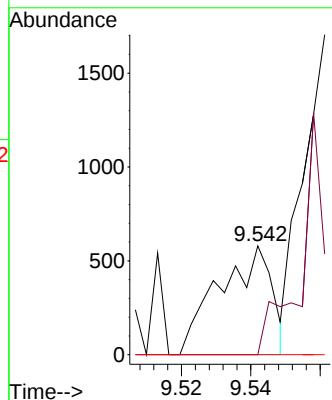
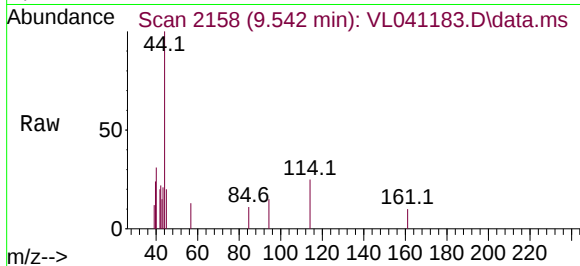




#51  
2-Hexanone  
Concen: 0.004 ppbv  
RT: 9.542 min Scan# 2160  
Delta R.T. -0.007 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

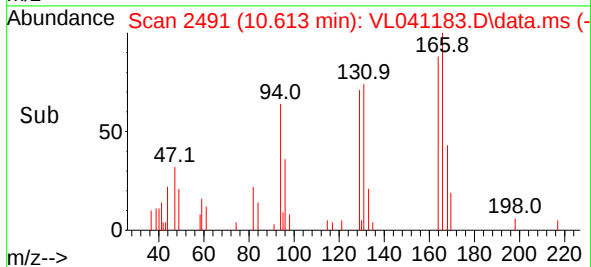
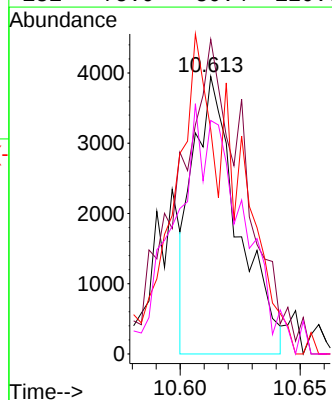
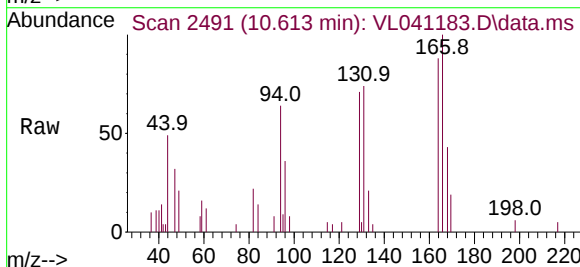
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

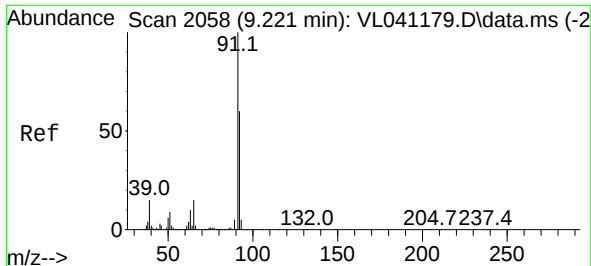
Tgt Ion: 43 Resp: 614  
Ion Ratio Lower Upper  
43 100  
58 0.0 38.4 57.6#  
98 0.0 0.0 0.0



#52  
Tetrachloroethene  
Concen: 0.067 ppbv  
RT: 10.613 min Scan# 2491  
Delta R.T. -0.007 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion: 164 Resp: 5146  
Ion Ratio Lower Upper  
164 100  
166 113.9 101.1 151.7  
129 73.6 81.7 122.5#  
131 75.9 80.4 120.6#





#53

Toluene

Concen: 0.089 ppbv

RT: 9.220 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

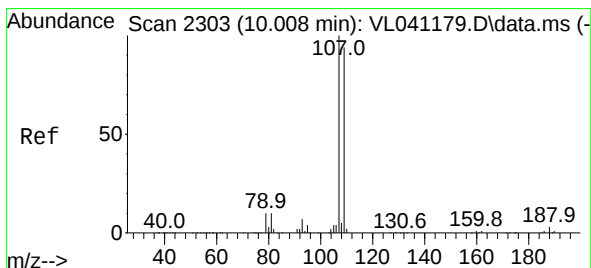
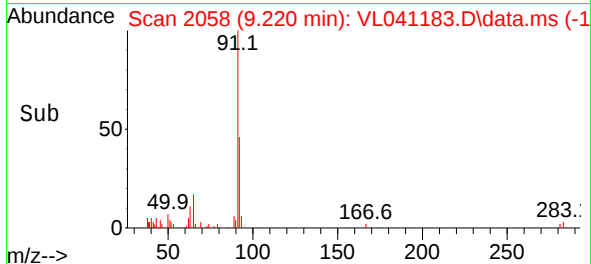
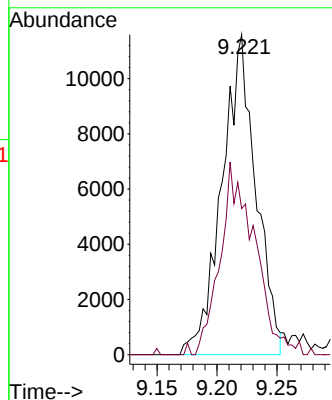
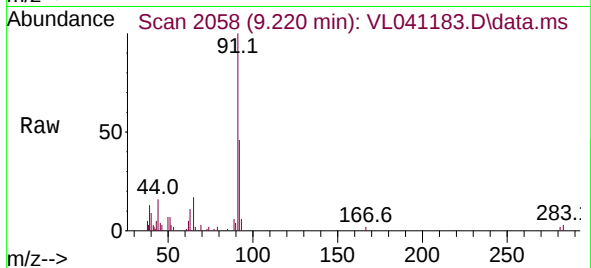
VSTDICC0.1

Tgt Ion: 91 Resp: 22863

Ion Ratio Lower Upper

91 100

92 61.3 48.2 72.4



#54

1,2-Dibromoethane

Concen: 0.044 ppbv

RT: 10.002 min Scan# 2301

Delta R.T. -0.007 min

Lab File: VL041183.D

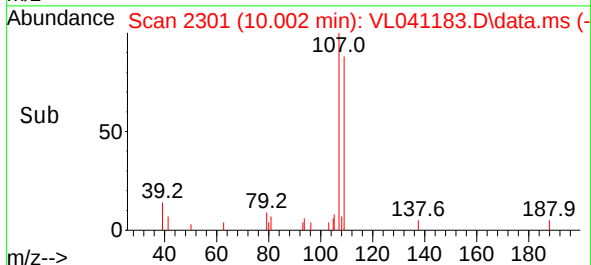
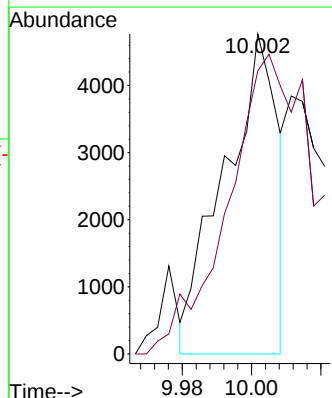
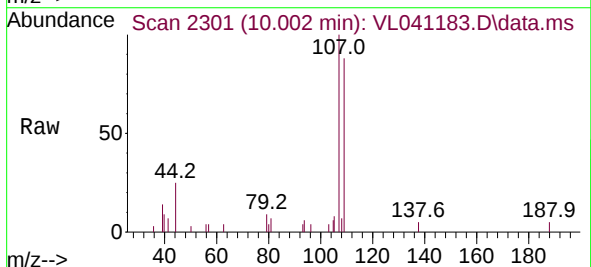
Acq: 29 Apr 2024 14:07

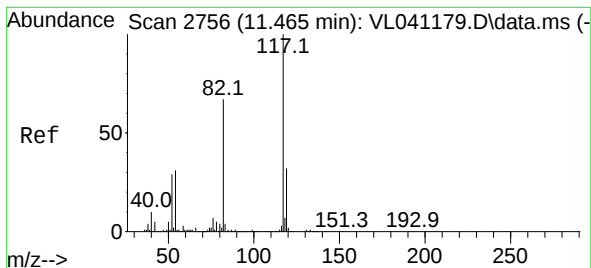
Tgt Ion: 107 Resp: 5075

Ion Ratio Lower Upper

107 100

109 77.3 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

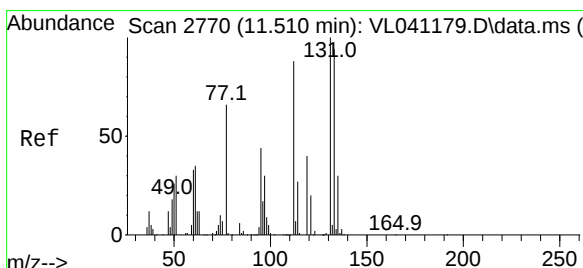
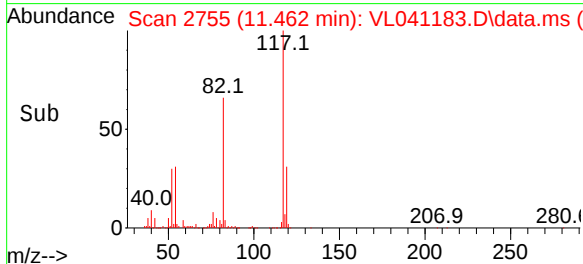
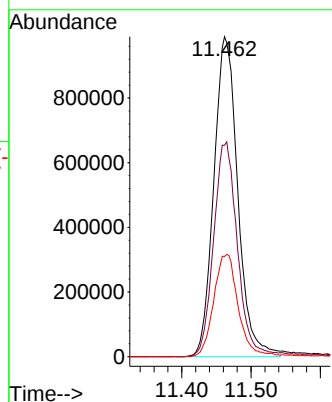
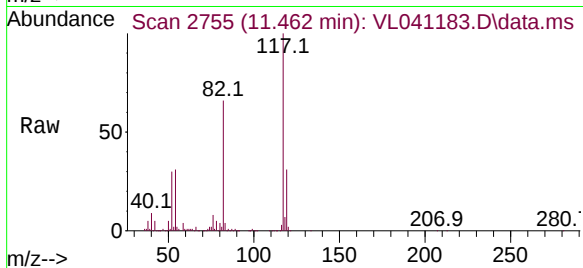
Tgt Ion:117 Resp: 2375514

Ion Ratio Lower Upper

117 100

82 68.1 53.6 80.4

119 33.4 27.2 40.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.022 ppbv

RT: 11.507 min Scan# 2769

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

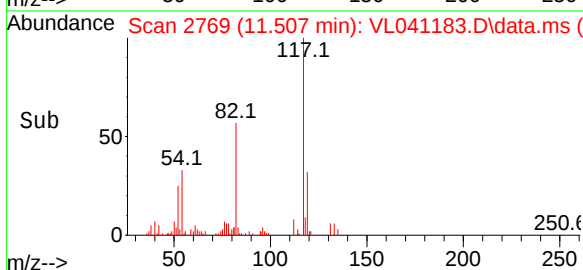
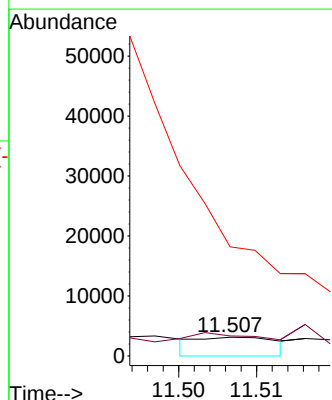
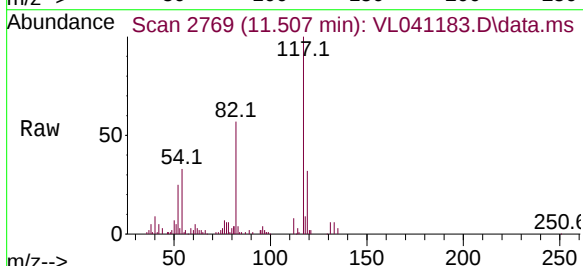
Tgt Ion:131 Resp: 2211

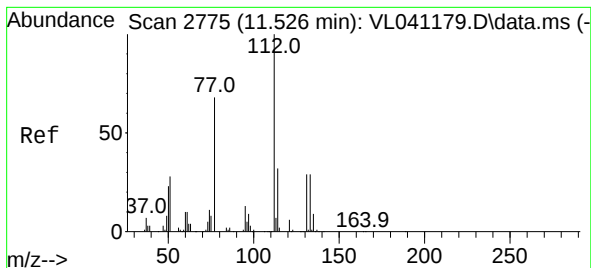
Ion Ratio Lower Upper

131 100

133 0.0 76.3 114.5#

119 0.0 49.4 74.2#





#57

Chlorobenzene

Concen: 0.053 ppbv

RT: 11.519 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

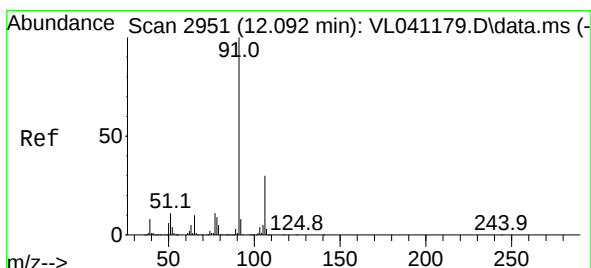
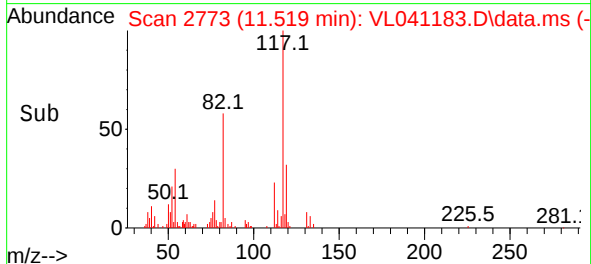
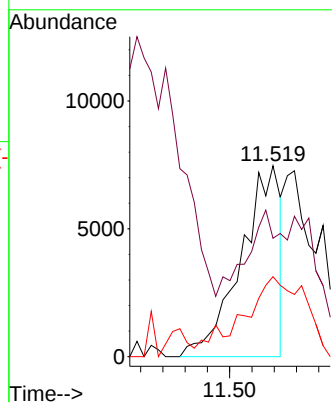
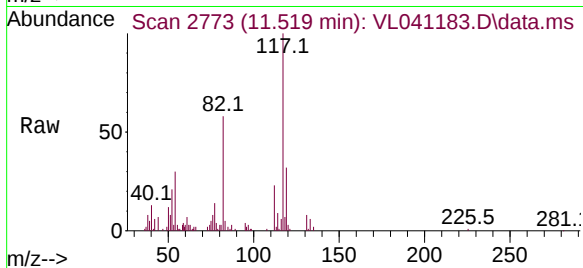
Tgt Ion:112 Resp: 9197

Ion Ratio Lower Upper

112 100

77 0.0 54.9 82.3#

114 32.7 28.7 35.1



#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.089 min Scan# 2950

Delta R.T. -0.003 min

Lab File: VL041183.D

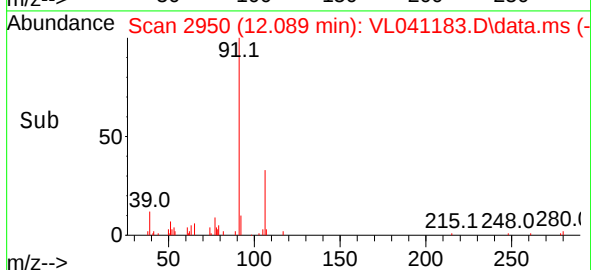
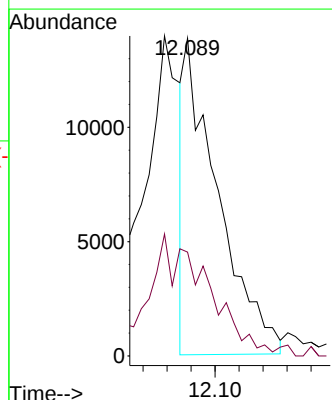
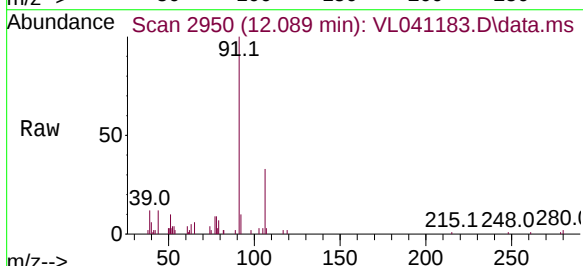
Acq: 29 Apr 2024 14:07

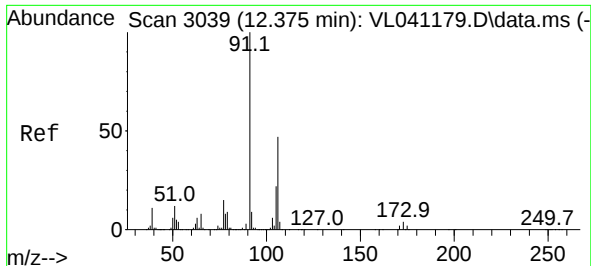
Tgt Ion: 91 Resp: 13404

Ion Ratio Lower Upper

91 100

106 31.4 24.3 36.5





#59

m/p-Xylene

Concen: 0.082 ppbv

RT: 12.368 min Scan# 3039

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

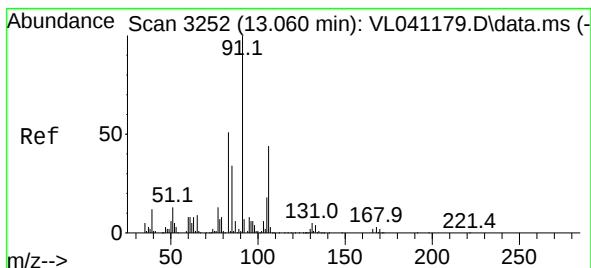
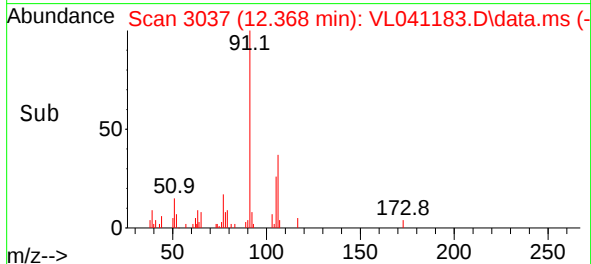
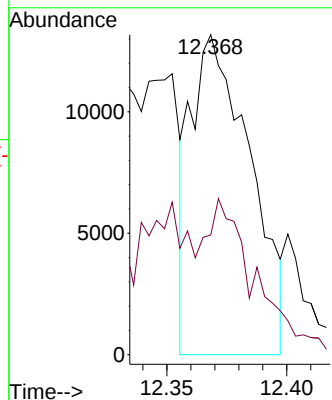
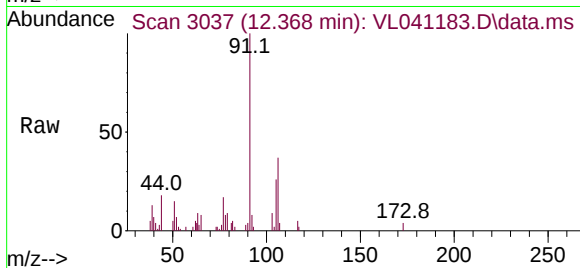
VSTDIC0.1

Tgt Ion: 91 Resp: 22626

Ion Ratio Lower Upper

91 100

106 98.4 35.7 53.5#



#60

o-Xylene

Concen: 0.021 ppbv

RT: 13.063 min Scan# 3253

Delta R.T. 0.003 min

Lab File: VL041183.D

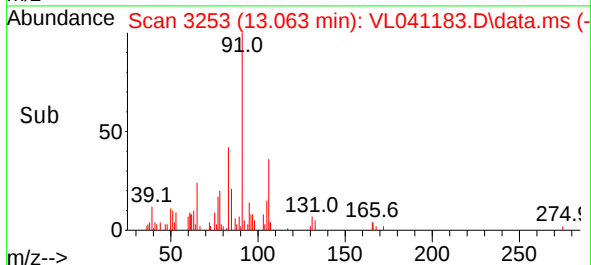
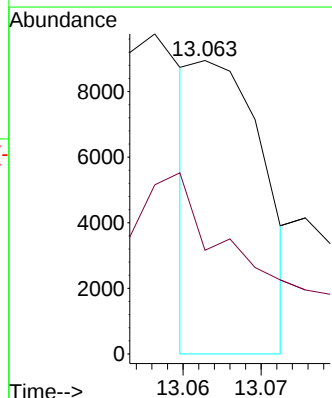
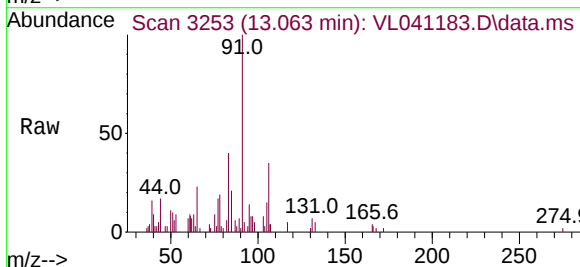
Acq: 29 Apr 2024 14:07

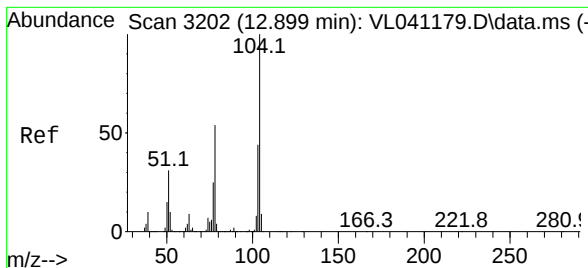
Tgt Ion: 91 Resp: 5517

Ion Ratio Lower Upper

91 100

106 208.7 22.4 67.3#





#61

Styrene

Concen: 0.035 ppbv

RT: 12.902 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

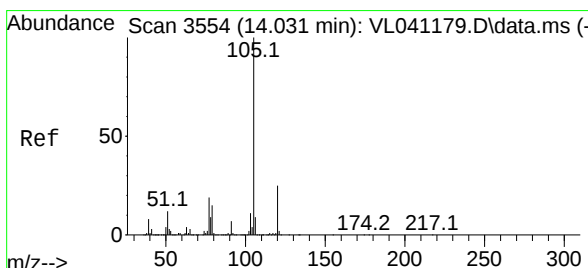
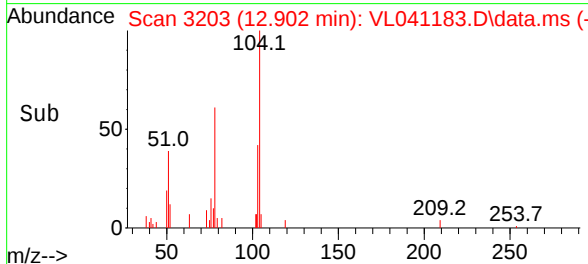
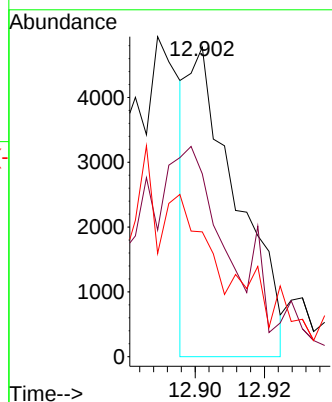
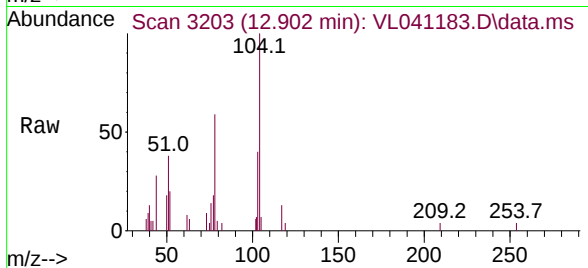
Tgt Ion:104 Resp: 4704

Ion Ratio Lower Upper

104 100

78 147.6 42.6 63.8#

103 0.0 38.4 57.6#



#62

Isopropylbenzene

Concen: 0.085 ppbv

RT: 14.027 min Scan# 3553

Delta R.T. -0.003 min

Lab File: VL041183.D

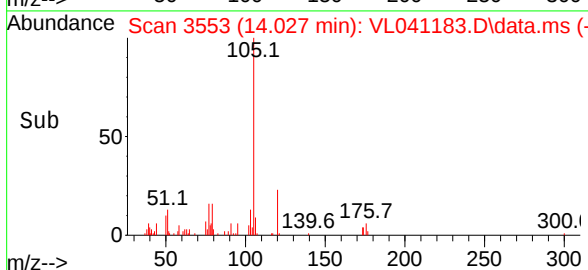
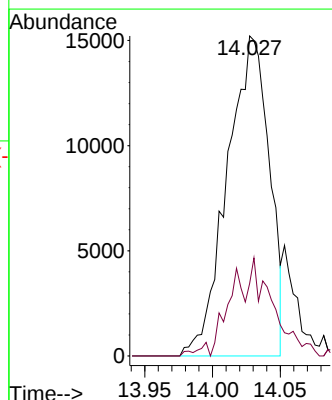
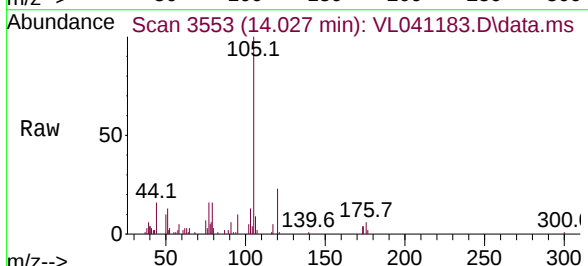
Acq: 29 Apr 2024 14:07

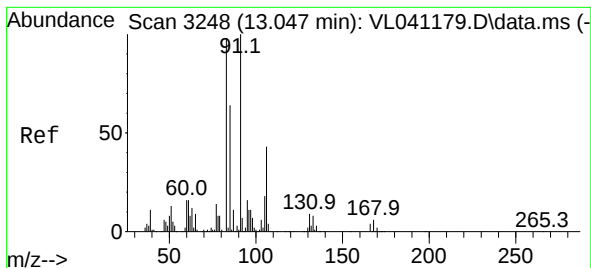
Tgt Ion:105 Resp: 32741

Ion Ratio Lower Upper

105 100

120 30.8 20.2 30.2#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 13.050 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

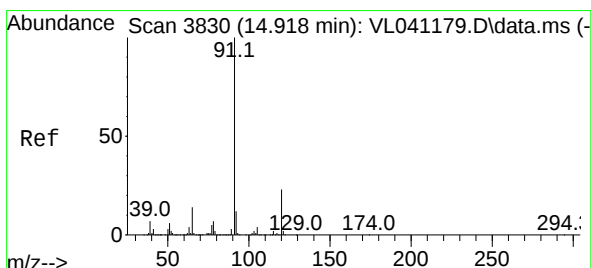
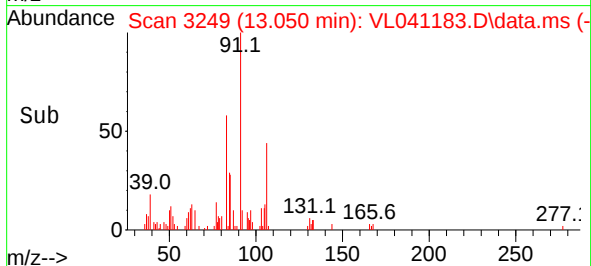
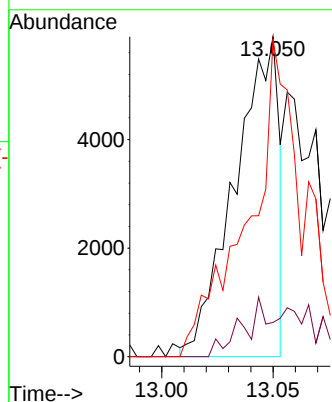
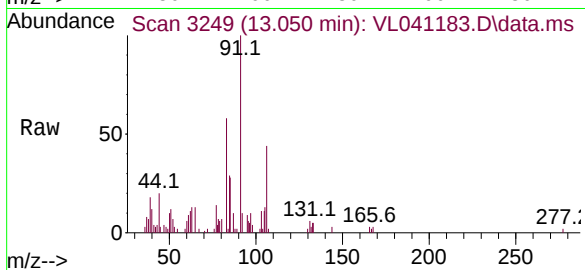
Tgt Ion: 83 Resp: 8116

Ion Ratio Lower Upper

83 100

131 26.1 4.5 13.5#

85 134.3 32.7 98.1#



#64

n-propylbenzene

Concen: 0.049 ppbv

RT: 14.921 min Scan# 3831

Delta R.T. 0.003 min

Lab File: VL041183.D

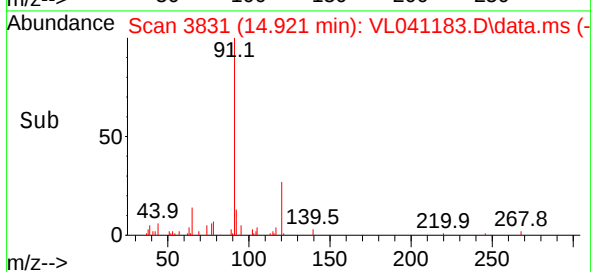
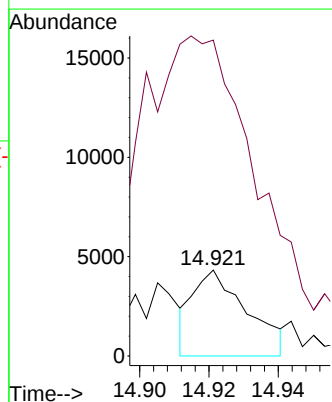
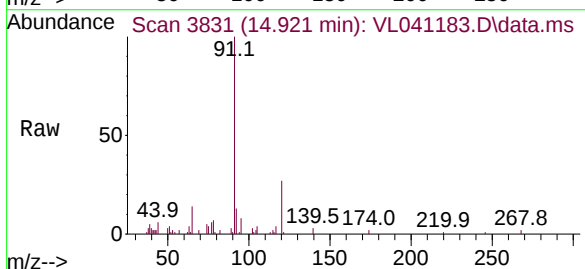
Acq: 29 Apr 2024 14:07

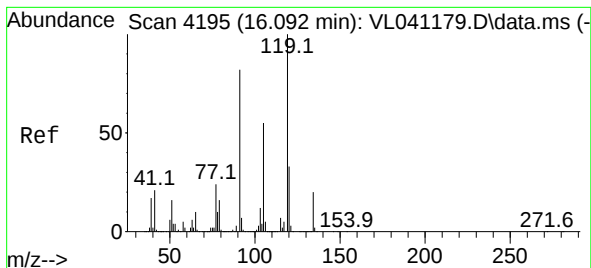
Tgt Ion:120 Resp: 4709

Ion Ratio Lower Upper

120 100

91 989.4 384.8 577.2#





#65

tert-Butylbenzene

Concen: 0.029 ppbv

RT: 16.092 min Scan# 4195

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

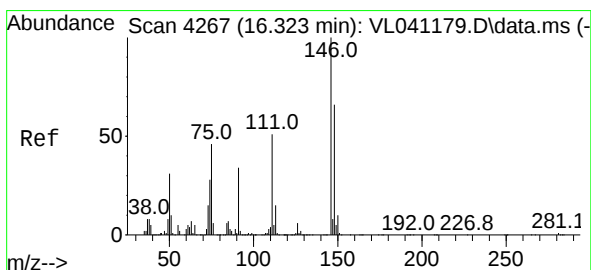
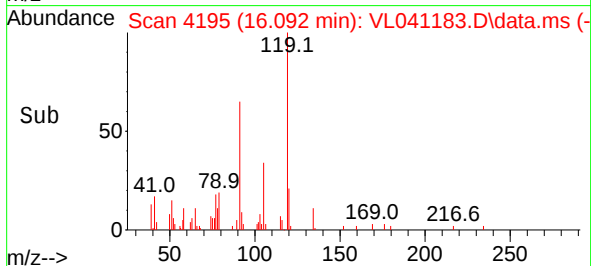
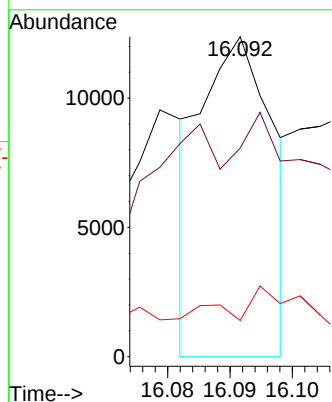
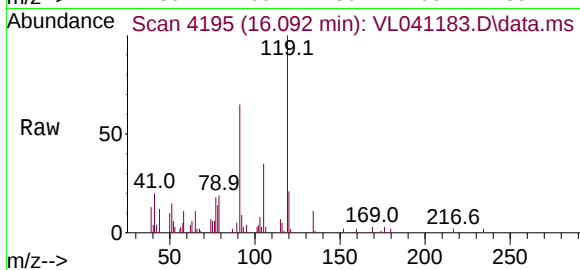
Tgt Ion:119 Resp: 9924

Ion Ratio Lower Upper

119 100

91 291.3 67.0 100.4#

134 63.4 15.2 22.8#



#66

Benzyl Chloride

Concen: 0.008 ppbv

RT: 16.320 min Scan# 4266

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

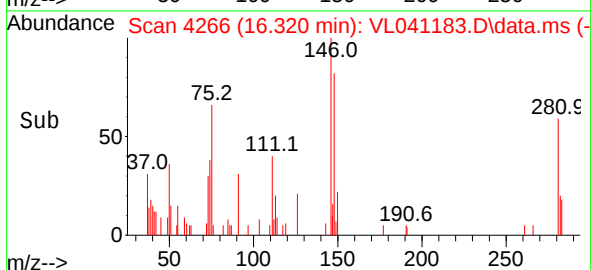
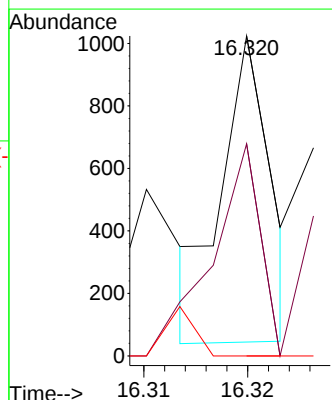
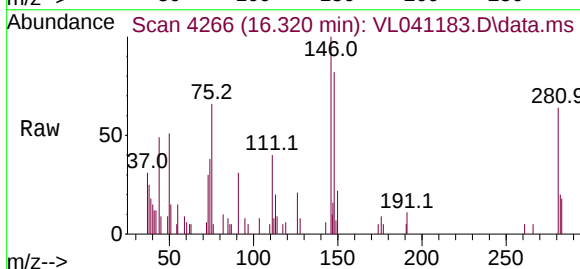
Tgt Ion: 91 Resp: 320

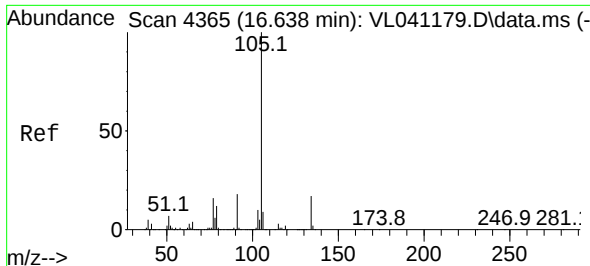
Ion Ratio Lower Upper

91 100

126 115.3 14.6 21.8#

128 0.0 4.7 7.1#





#67

sec-Butylbenzene

Concen: 0.070 ppbv

RT: 16.638 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

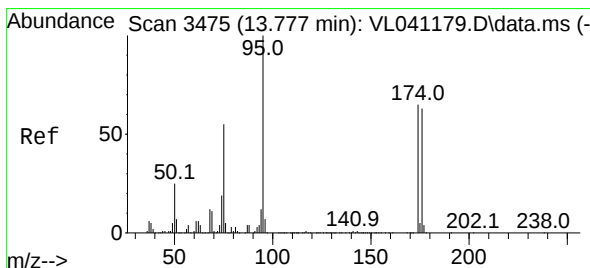
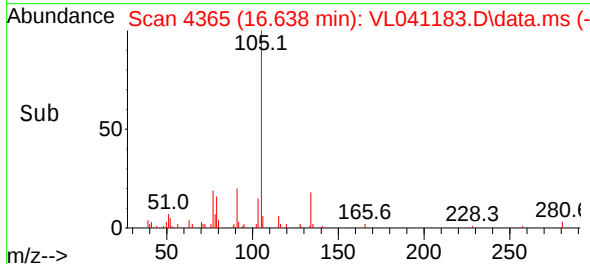
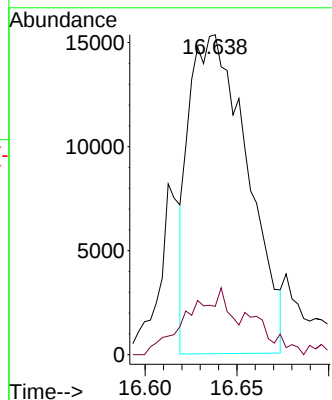
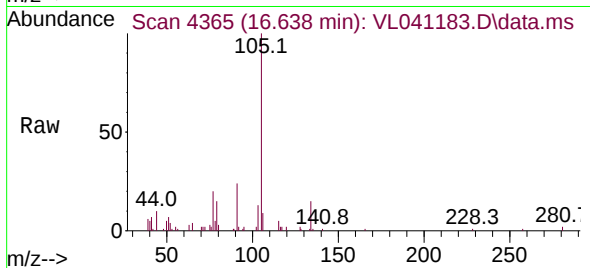
VSTDIC0.1

Tgt Ion:105 Resp: 33727

Ion Ratio Lower Upper

105 100

134 23.2 13.8 20.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.154 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

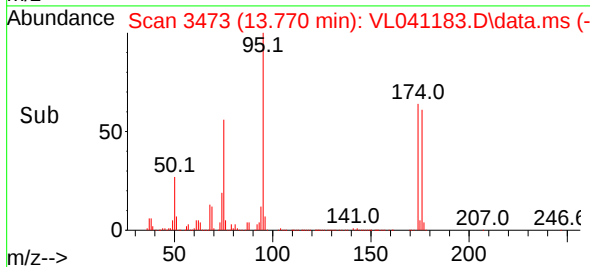
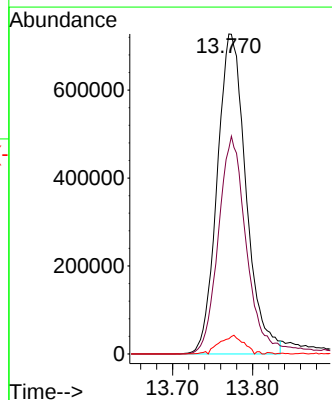
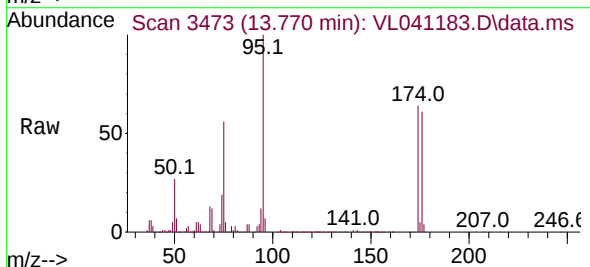
Tgt Ion: 95 Resp: 1821843

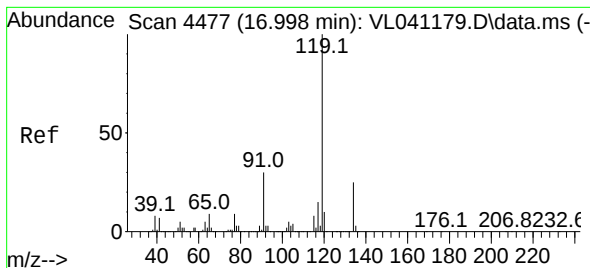
Ion Ratio Lower Upper

95 100

174 69.4 53.6 80.4

175 5.0 4.2 6.4





#69

p-Isopropyltoluene

Concen: 0.078 ppbv

RT: 17.002 min Scan# 4478

Delta R.T. 0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

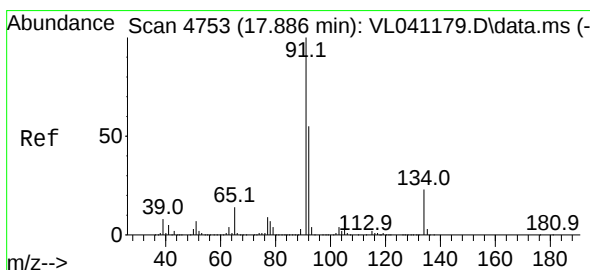
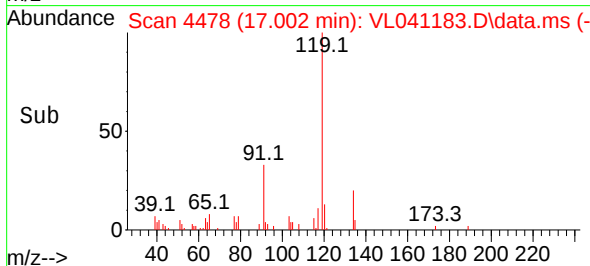
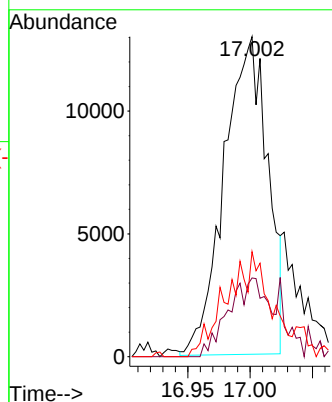
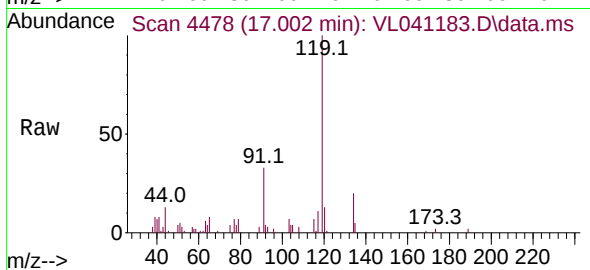
Tgt Ion:119 Resp: 31297

Ion Ratio Lower Upper

119 100

134 0.0 20.1 30.1#

91 36.1 24.2 36.2



#70

n-Butylbenzene

Concen: 0.028 ppbv

RT: 17.883 min Scan# 4752

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

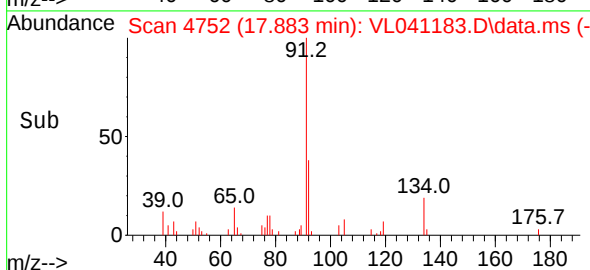
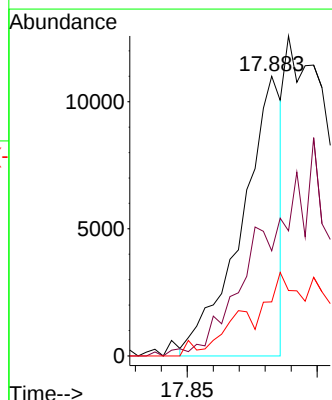
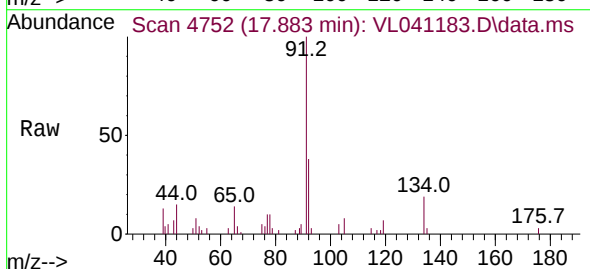
Tgt Ion: 91 Resp: 11754

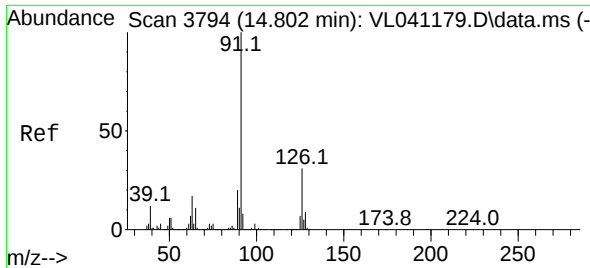
Ion Ratio Lower Upper

91 100

92 0.0 43.3 64.9#

134 0.0 17.8 26.8#

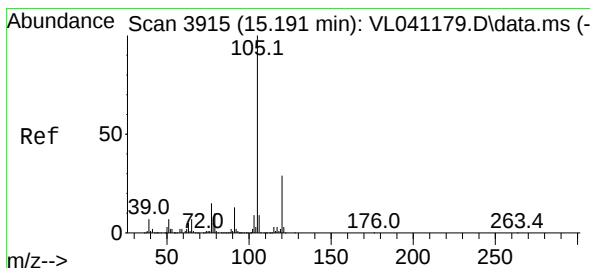
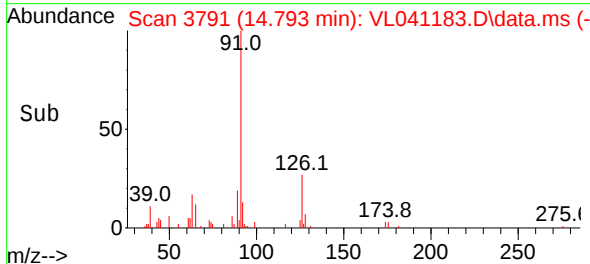
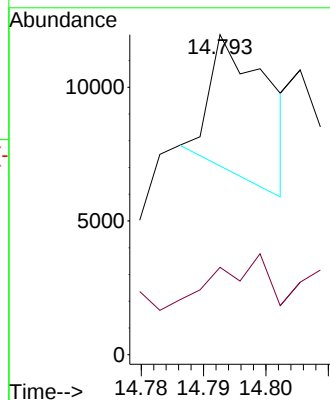
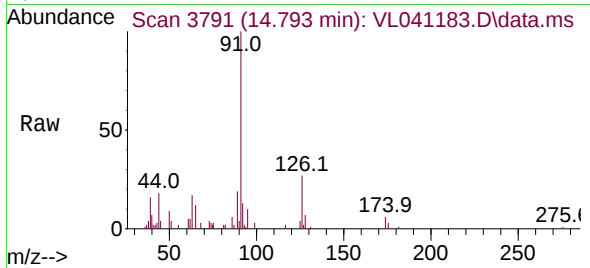




#71  
2-Chlorotoluene  
Concen: 0.011 ppbv  
RT: 14.793 min Scan# 31  
Delta R.T. -0.010 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

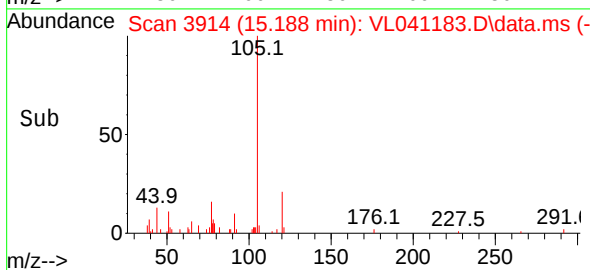
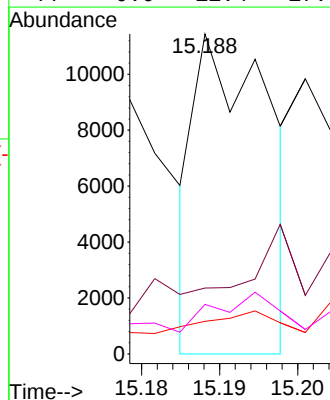
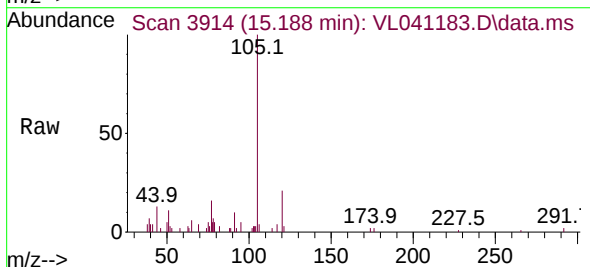
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

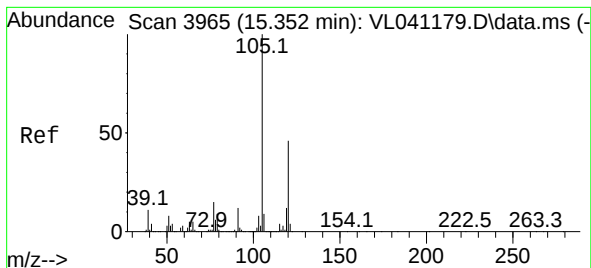
Tgt Ion: 91 Resp: 3230  
Ion Ratio Lower Upper  
91 100  
126 260.9 12.2 48.8#



#72  
4-Ethyltoluene  
Concen: 0.025 ppbv  
RT: 15.188 min Scan# 3914  
Delta R.T. -0.003 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion:105 Resp: 7471  
Ion Ratio Lower Upper  
105 100  
120 0.0 24.7 37.1#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.047 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

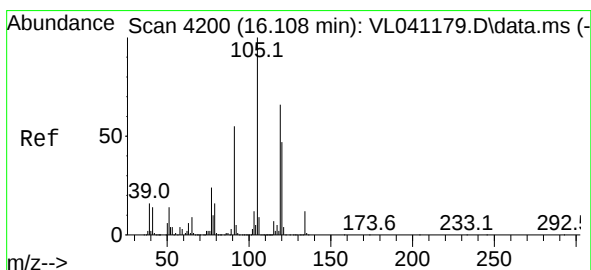
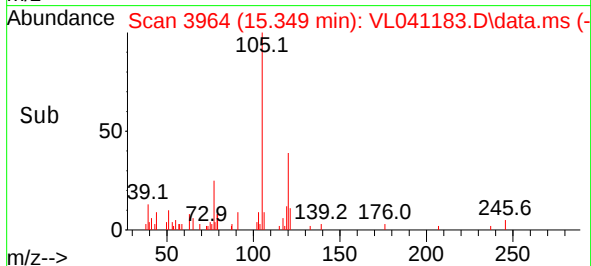
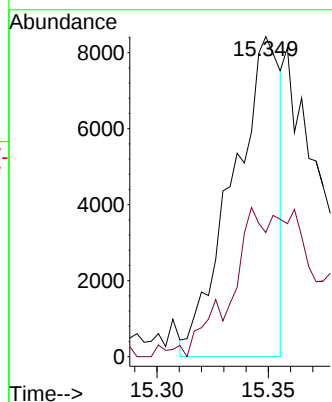
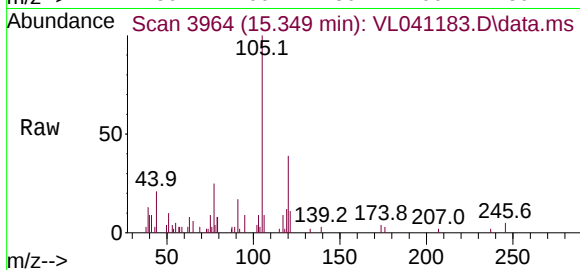
VSTDIC0.1

Tgt Ion:105 Resp: 12444

Ion Ratio Lower Upper

105 100

120 37.2 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.040 ppbv

RT: 16.104 min Scan# 4199

Delta R.T. -0.003 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Tgt Ion:105 Resp: 11487

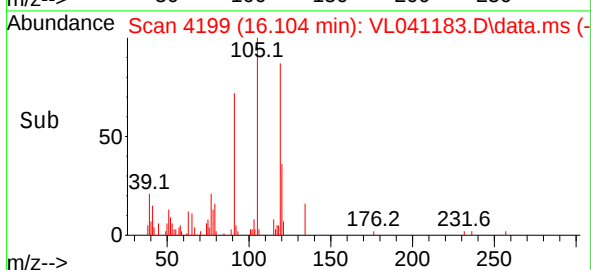
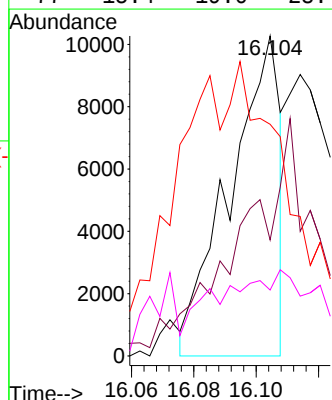
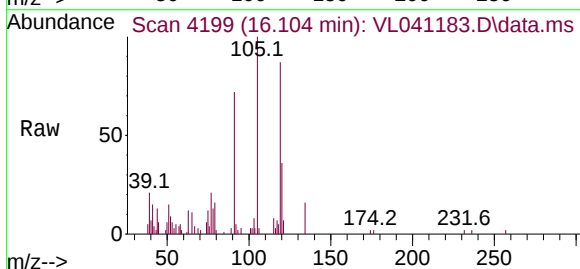
Ion Ratio Lower Upper

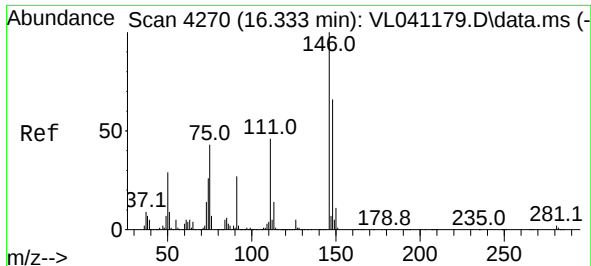
105 100

120 25.0 37.8 56.6#

91 6.9 44.3 66.5#

77 15.4 19.0 28.4#

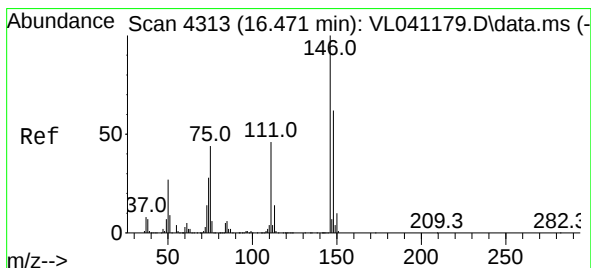
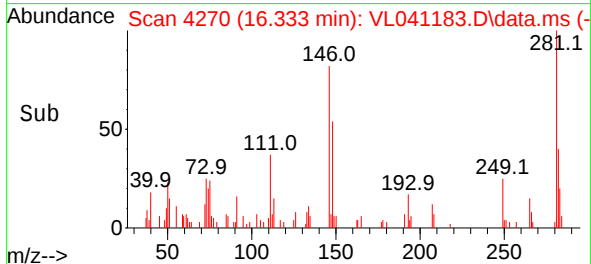
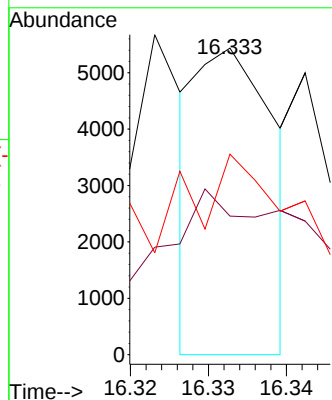
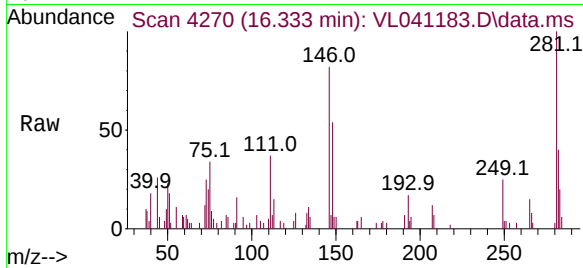




#75  
1,3-Dichlorobenzene  
Concen: 0.023 ppbv  
RT: 16.333 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

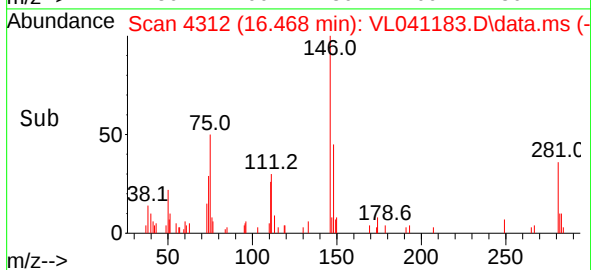
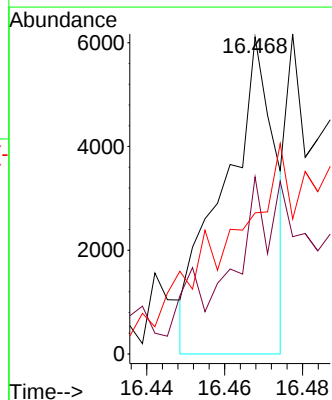
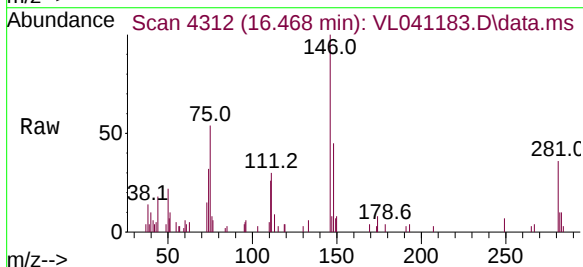
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

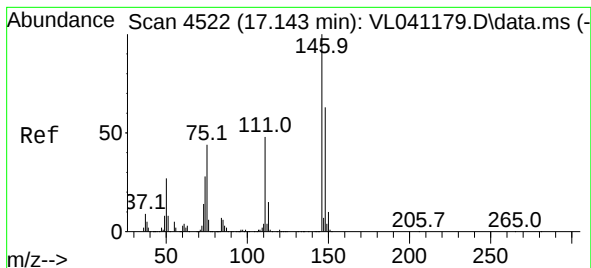
Tgt Ion:146 Resp: 3725  
Ion Ratio Lower Upper  
146 100  
111 229.8 23.7 71.1#  
148 270.7 32.5 97.4#



#76  
1,4-Dichlorobenzene  
Concen: 0.035 ppbv  
RT: 16.468 min Scan# 4312  
Delta R.T. -0.003 min  
Lab File: VL041183.D  
Acq: 29 Apr 2024 14:07

Tgt Ion:146 Resp: 5606  
Ion Ratio Lower Upper  
146 100  
111 152.5 23.3 69.8#  
148 0.0 32.6 97.7#





#77

1,2-Dichlorobenzene

Concen: 0.030 ppbv

RT: 17.143 min Scan# 4522

Delta R.T. -0.000 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

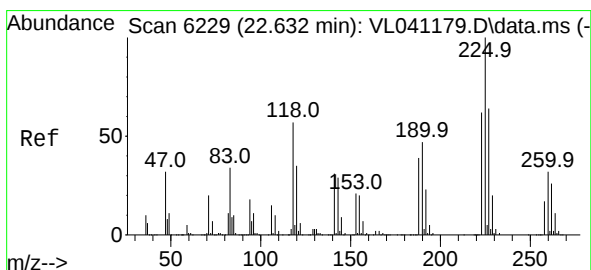
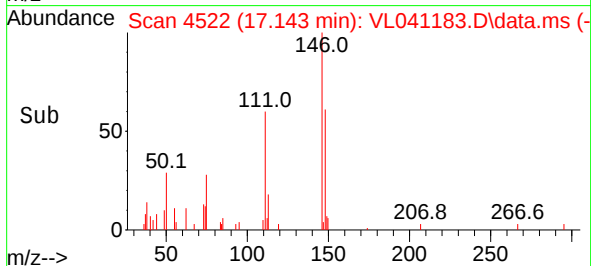
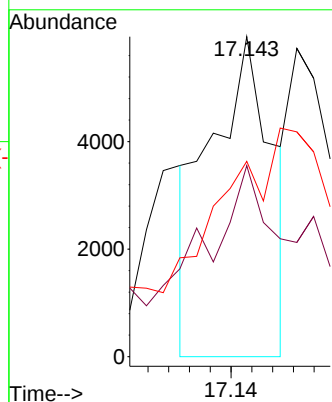
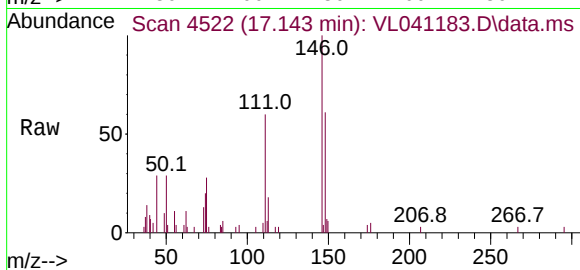
Tgt Ion:146 Resp: 4960

Ion Ratio Lower Upper

146 100

111 153.1 24.5 73.5#

148 0.0 32.6 98.0#



#78

Hexachloro-1,3-Butadiene

Concen: 0.027 ppbv

RT: 22.625 min Scan# 6227

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

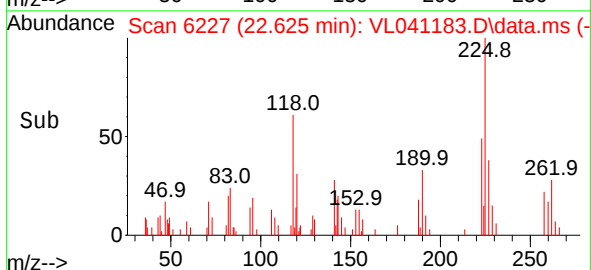
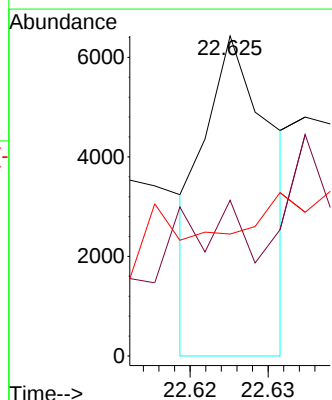
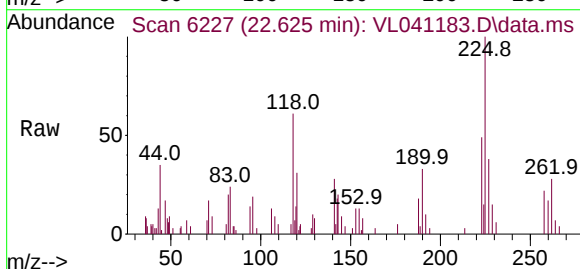
Tgt Ion:225 Resp: 3898

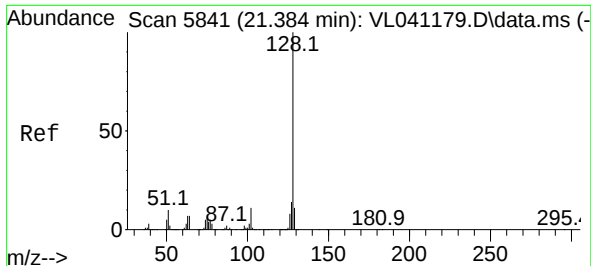
Ion Ratio Lower Upper

225 100

223 0.0 50.9 76.3#

227 0.0 52.0 78.0#





#79

Naphthalene

Concen: 0.013 ppbv

RT: 21.378 min Scan# 5839

Delta R.T. -0.007 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

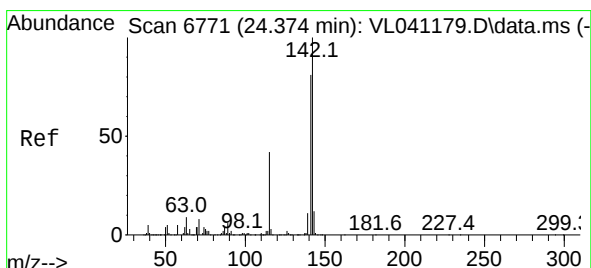
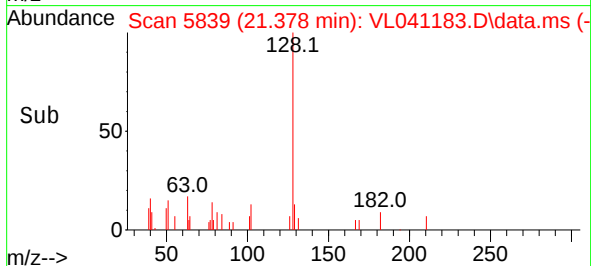
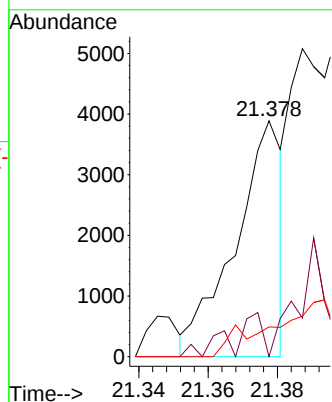
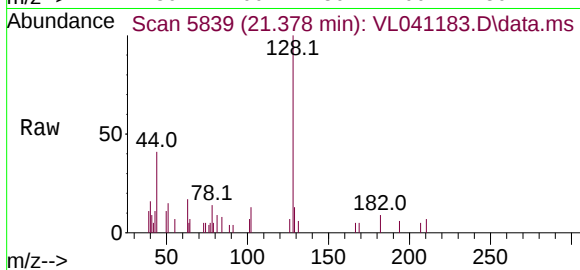
Tgt Ion:128 Resp: 3635

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 13.9 8.9 13.3#



#80

Naphthalene,2-methyl-

Concen: 0.001 ppbv

RT: 24.201 min Scan# 6717

Delta R.T. -0.174 min

Lab File: VL041183.D

Acq: 29 Apr 2024 14:07

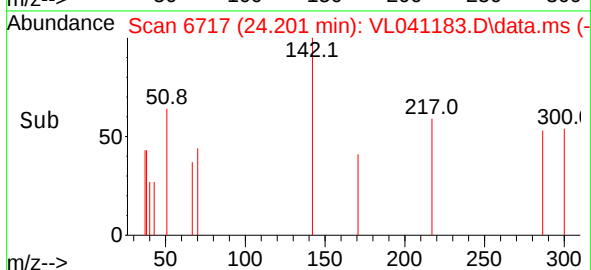
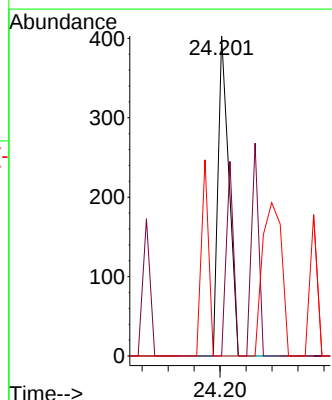
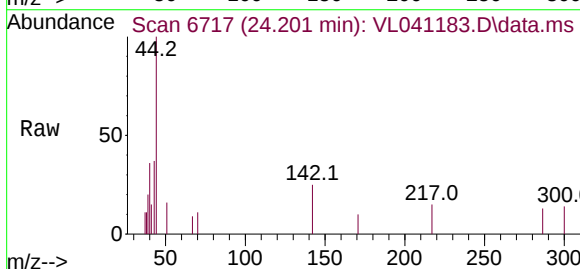
Tgt Ion:142 Resp: 117

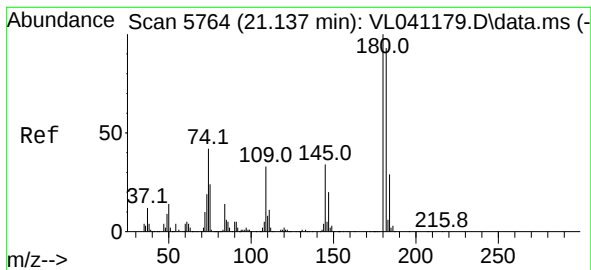
Ion Ratio Lower Upper

142 100

141 84.6 67.9 101.9

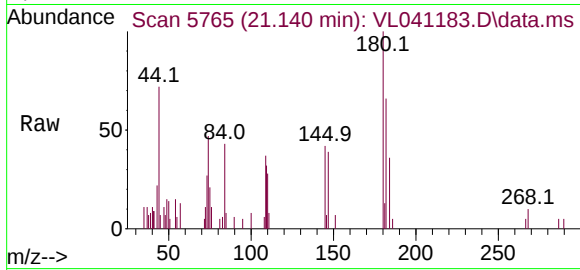
115 41.0 31.4 47.0





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.027 ppbv  
 RT: 21.140 min Scan# 51  
 Delta R.T. 0.003 min  
 Lab File: VL041183.D  
 Acq: 29 Apr 2024 14:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1



Tgt Ion:180 Resp: 4003  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 77.2 115.8#  
 184 0.0 24.6 36.8#

