

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111523\  
 Data File : VL040876.D  
 Acq On : 15 Nov 2023 20:10  
 Operator : SY/MD  
 Sample : 05277-08 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 NT-SS-9

Quant Time: Nov 16 05:55:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Nov 13 15:42:46 2023  
 Response via : Initial Calibration

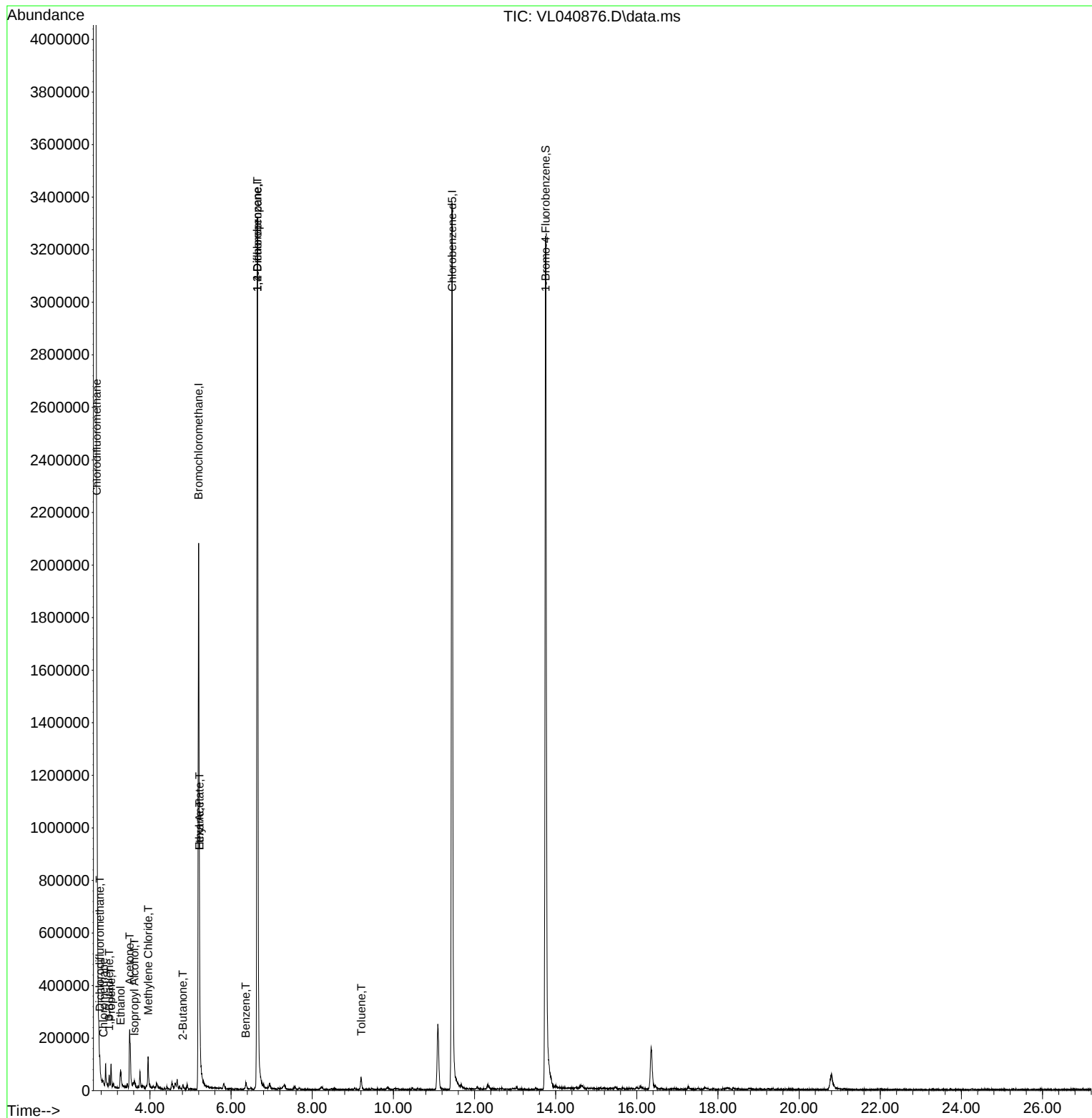
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.198  | 49    | 984061   | 10.000   | ppbv   | 0.03     |
| 33) 1,4-Difluorobenzene     | 6.648  | 114   | 2451391  | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5        | 11.445 | 117   | 2177967  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.754 | 95    | 1694042  | 9.935    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.300%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.764  | 85    | 22149    | 0.111    | ppbv   | 98       |
| 3) Chlorodifluoromethane    | 2.687  | 51    | 55596    | 0.354    | ppbv # | 66       |
| 4) Chloromethane            | 2.851  | 50    | 6580     | 0.116    | ppbv   | 94       |
| 9) Propene                  | 3.044  | 41    | 10760    | 0.203    | ppbv   | 91       |
| 13) Ethanol                 | 3.275  | 45    | 81681    | 7.944    | ppbv # | 100      |
| 15) Acetone                 | 3.500  | 43    | 227326   | 2.169    | ppbv   | 99       |
| 16) 1,3-Butadiene           | 2.996  | 39    | 12267    | 0.231    | ppbv # | 15       |
| 19) Isopropyl Alcohol       | 3.616  | 45    | 15166    | 0.240    | ppbv # | 63       |
| 20) Methylene Chloride      | 3.957  | 84    | 32791    | 0.758    | ppbv   | 88       |
| 25) Ethyl Acetate           | 5.221  | 43    | 64735    | 0.298    | ppbv # | 79       |
| 26) Hexane                  | 5.221  | 57    | 88889    | 0.925    | ppbv # | 40       |
| 34) 2-Butanone              | 4.812  | 43    | 16476    | 0.132    | ppbv # | 75       |
| 36) Benzene                 | 6.362  | 78    | 7769     | 0.039    | ppbv   | 93       |
| 39) 1,2-Dichloropropane     | 6.648  | 63    | 622243   | 7.888    | ppbv # | 24       |
| 53) Toluene                 | 9.214  | 91    | 10001    | 0.046    | ppbv # | 20       |
| -----                       |        |       |          |          |        |          |

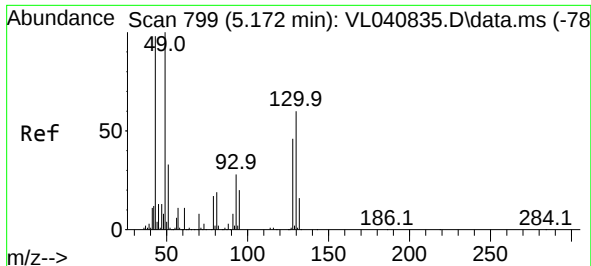
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111523\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Mon Nov 13 15:42:46 2023  
Response via : Initial Calibration

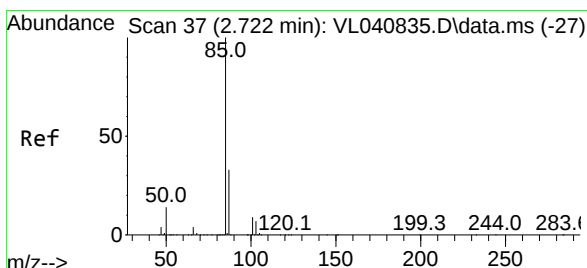
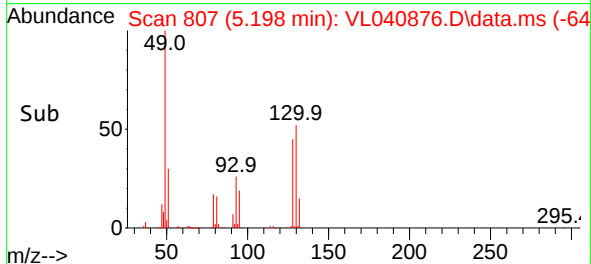
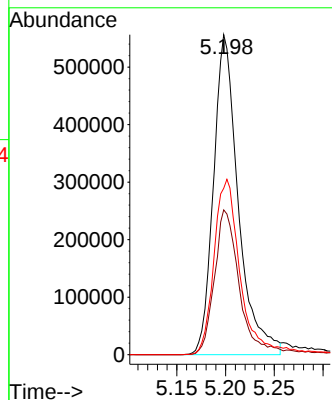
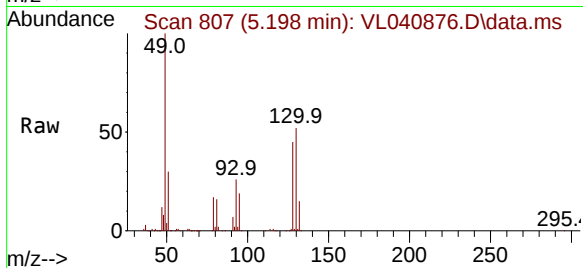




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.198 min Scan# 80  
 Delta R.T. 0.026 min  
 Lab File: VL040876.D  
 Acq: 15 Nov 2023 20:10

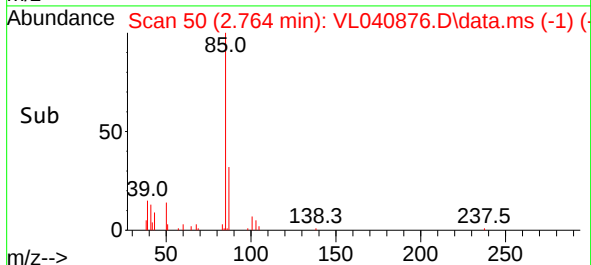
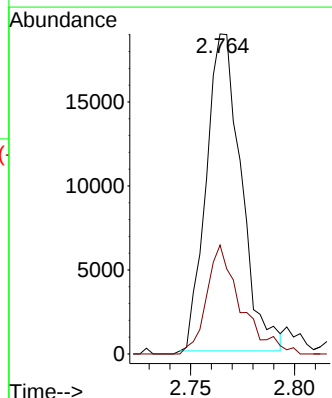
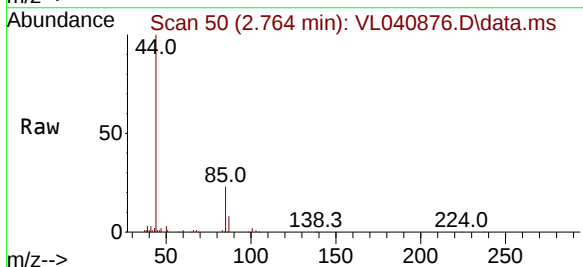
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 NT-SS-9

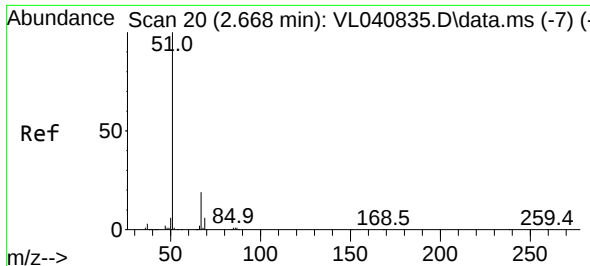
Tgt Ion: 49 Resp: 984061  
 Ion Ratio Lower Upper  
 49 100  
 128 47.7 23.8 71.2  
 130 59.8 30.9 92.8



#2  
 Dichlorodifluoromethane  
 Concen: 0.111 ppbv  
 RT: 2.764 min Scan# 50  
 Delta R.T. 0.042 min  
 Lab File: VL040876.D  
 Acq: 15 Nov 2023 20:10

Tgt Ion: 85 Resp: 22149  
 Ion Ratio Lower Upper  
 85 100  
 87 34.3 26.7 40.1

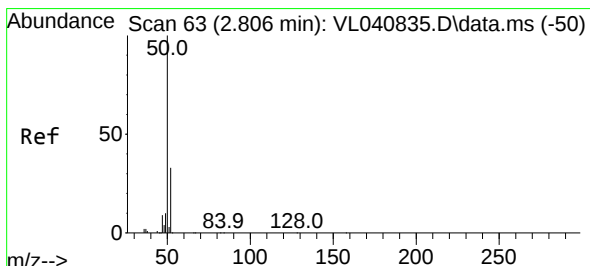
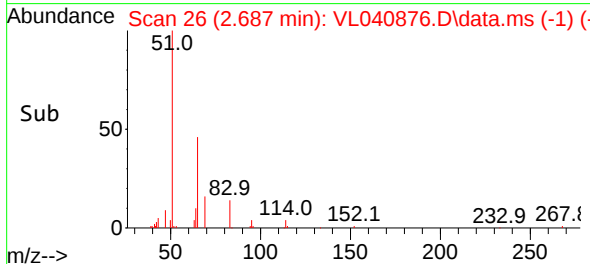
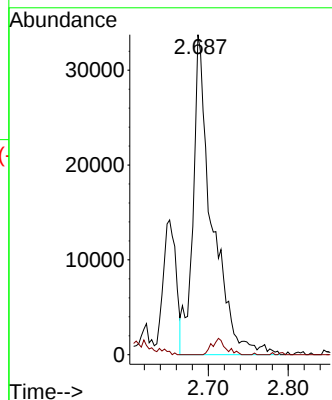
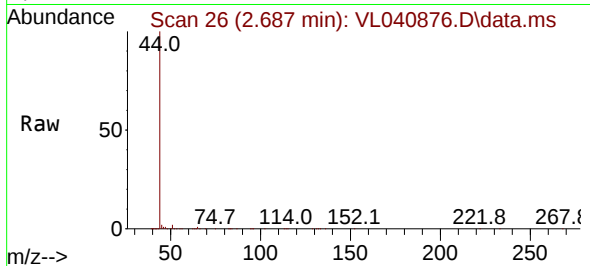




#3  
Chlorodifluoromethane  
Concen: 0.354 ppbv  
RT: 2.687 min Scan# 20  
Delta R.T. 0.019 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

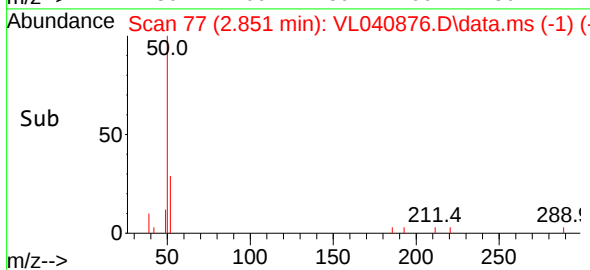
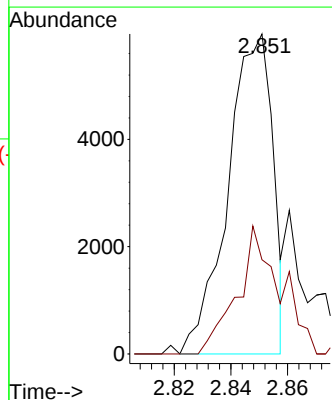
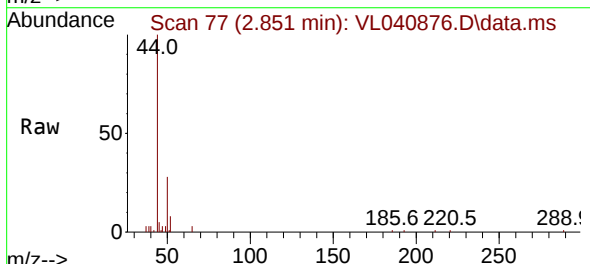
Instrument :  
MSVOA\_L  
ClientSampleId :  
NT-SS-9

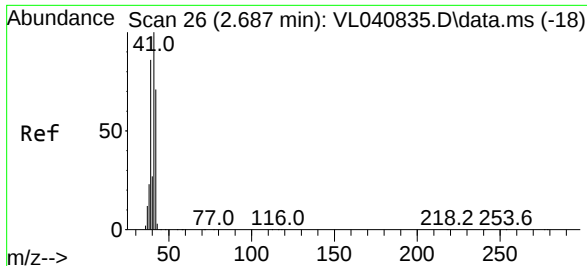
Tgt Ion: 51 Resp: 55596  
Ion Ratio Lower Upper  
51 100  
67 3.6 15.0 22.4#



#4  
Chloromethane  
Concen: 0.116 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.045 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

Tgt Ion: 50 Resp: 6580  
Ion Ratio Lower Upper  
50 100  
52 29.4 26.5 39.7

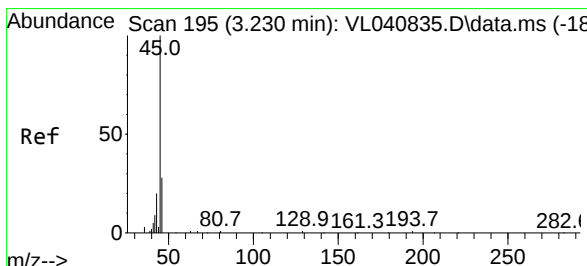
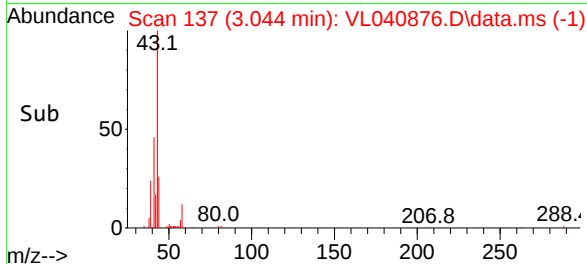
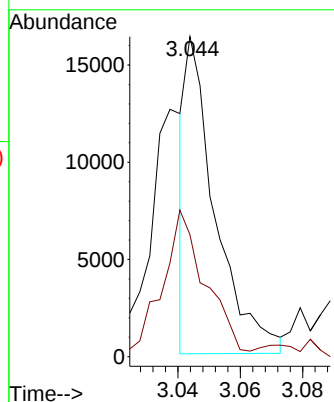
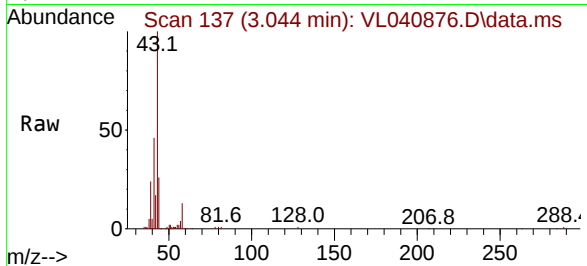




#9  
 Propene  
 Concen: 0.203 ppbv  
 RT: 3.044 min Scan# 11  
 Delta R.T. 0.357 min  
 Lab File: VL040876.D  
 Acq: 15 Nov 2023 20:10

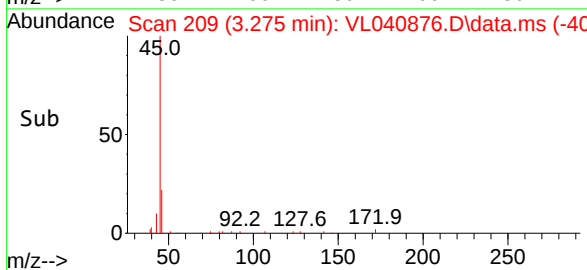
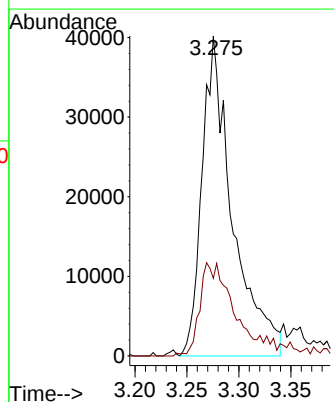
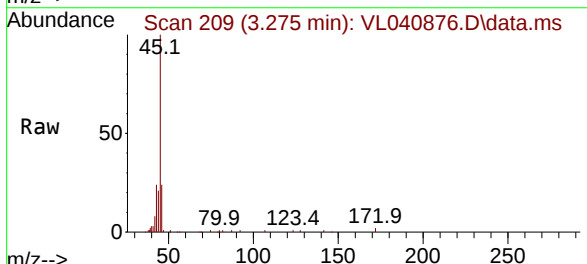
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 NT-SS-9

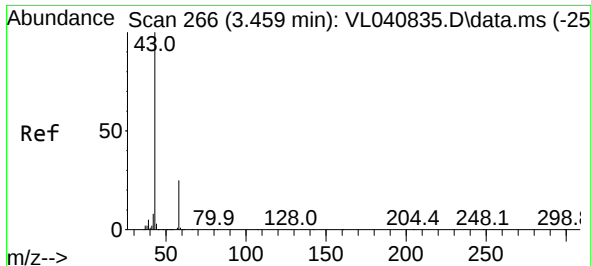
Tgt Ion: 41 Resp: 10760  
 Ion Ratio Lower Upper  
 41 100  
 42 77.9 56.5 84.7



#13  
 Ethanol  
 Concen: 7.944 ppbv  
 RT: 3.275 min Scan# 209  
 Delta R.T. 0.045 min  
 Lab File: VL040876.D  
 Acq: 15 Nov 2023 20:10

Tgt Ion: 45 Resp: 81681  
 Ion Ratio Lower Upper  
 45 100  
 46 35.7 0.0 0.0#





#15

Acetone

Concen: 2.169 ppbv

RT: 3.500 min Scan# 21

Delta R.T. 0.042 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

Instrument :

MSVOA\_L

ClientSampleId :

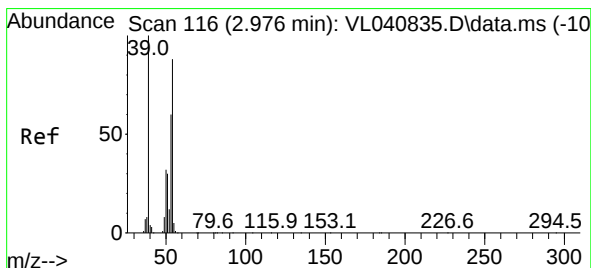
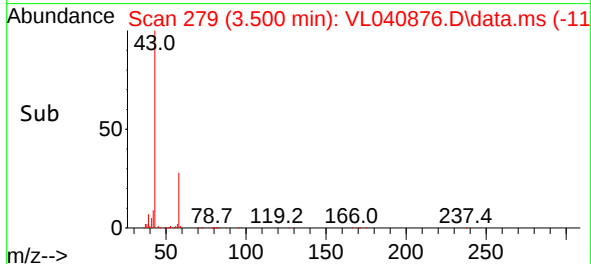
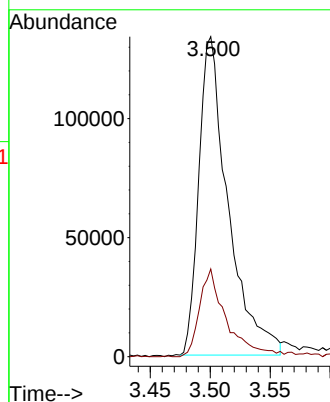
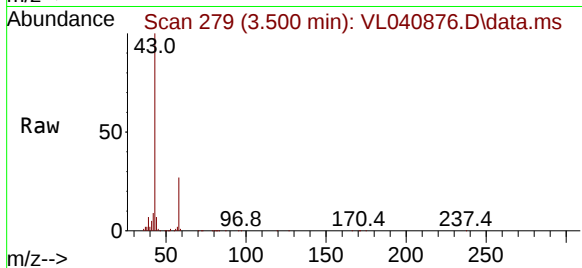
NT-SS-9

Tgt Ion: 43 Resp: 227326

Ion Ratio Lower Upper

43 100

58 25.7 20.9 31.3



#16

1,3-Butadiene

Concen: 0.231 ppbv

RT: 2.996 min Scan# 122

Delta R.T. 0.019 min

Lab File: VL040876.D

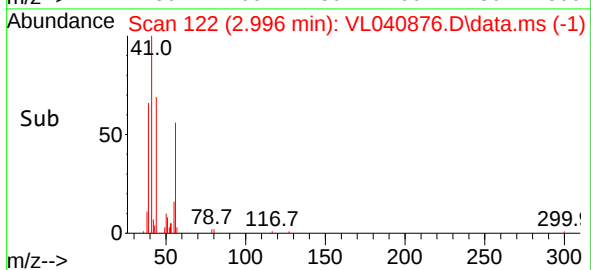
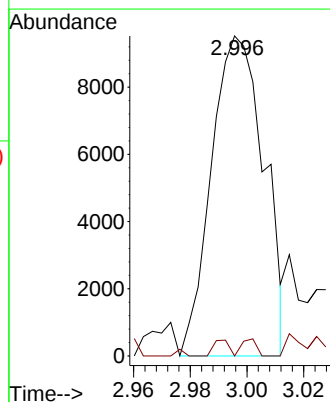
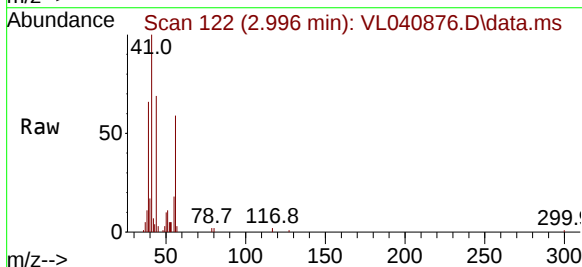
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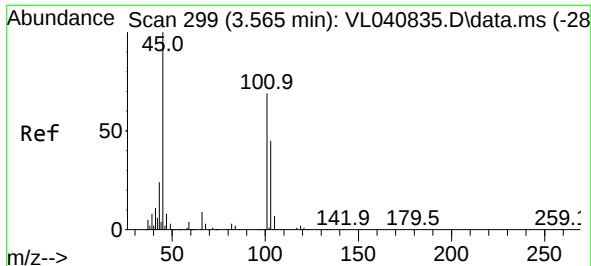
Tgt Ion: 39 Resp: 12267

Ion Ratio Lower Upper

39 100

54 3.3 61.8 92.6#





#19

Isopropyl Alcohol

Concen: 0.240 ppbv

RT: 3.616 min Scan# 315

Delta R.T. 0.051 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

Instrument :

MSVOA\_L

ClientSampleId :

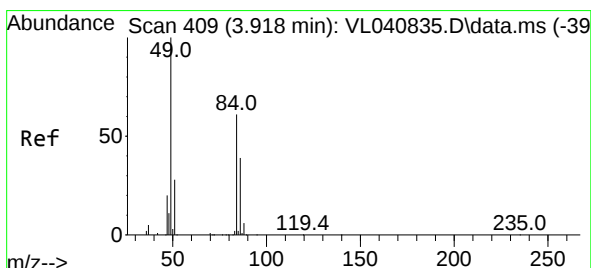
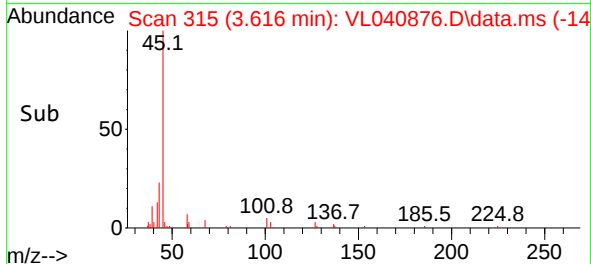
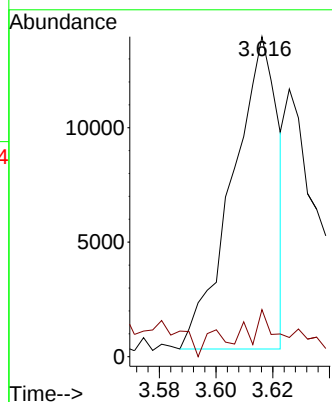
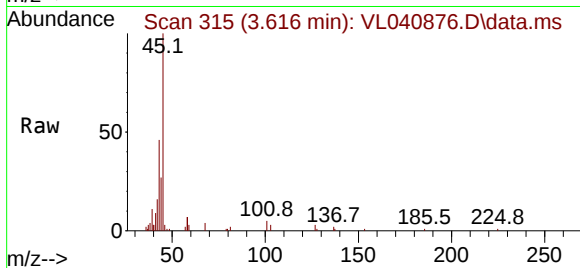
NT-SS-9

Tgt Ion: 45 Resp: 15166

Ion Ratio Lower Upper

45 100

58 15.1 1.6 2.4#



#20

Methylene Chloride

Concen: 0.758 ppbv

RT: 3.957 min Scan# 421

Delta R.T. 0.039 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

Tgt Ion: 84 Resp: 32791

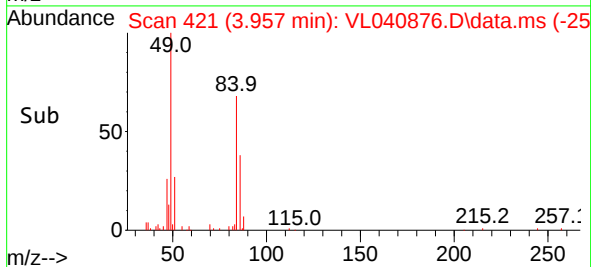
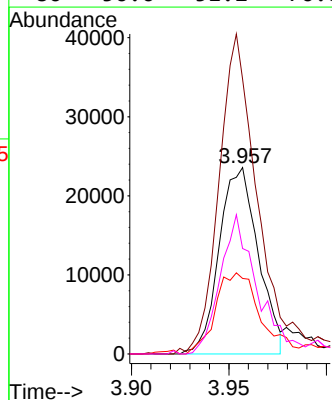
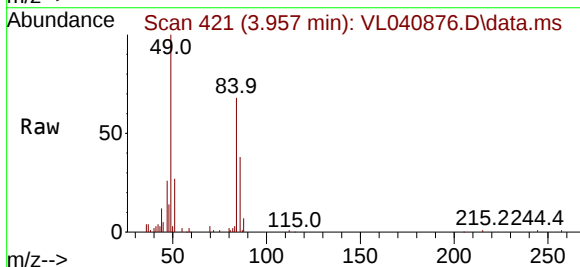
Ion Ratio Lower Upper

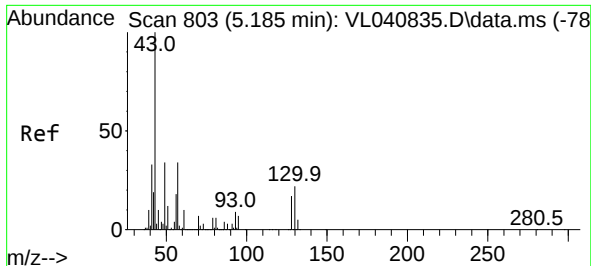
84 100

49 144.3 131.0 196.4

51 40.5 36.9 55.3

86 56.6 51.2 76.8

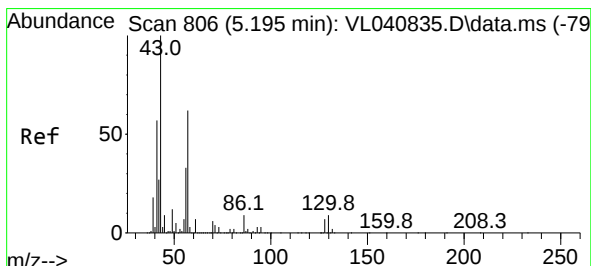
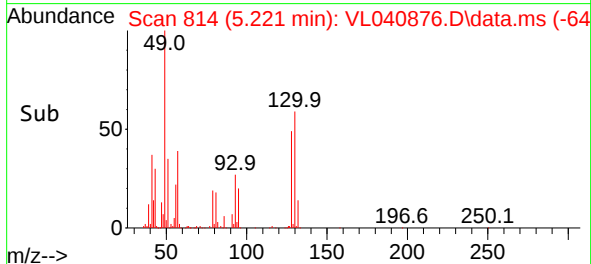
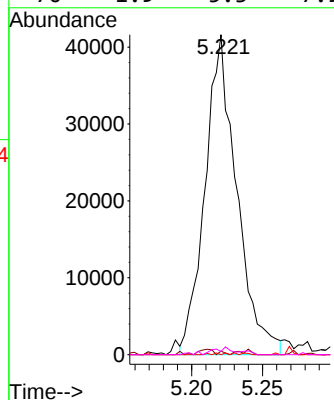
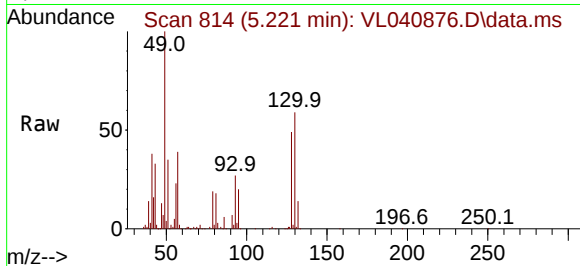




#25  
Ethyl Acetate  
Concen: 0.298 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.035 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

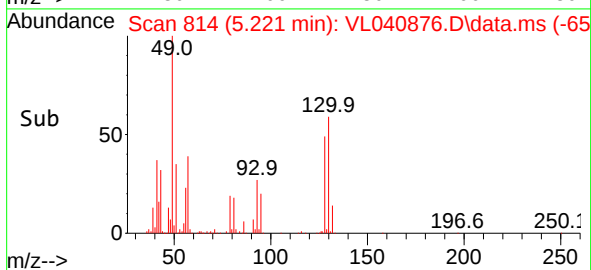
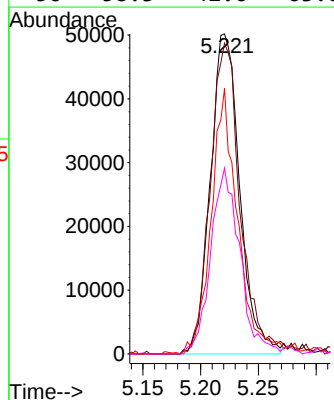
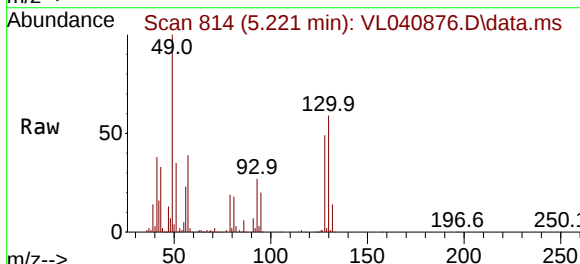
Instrument :  
MSVOA\_L  
ClientSampleId :  
NT-SS-9

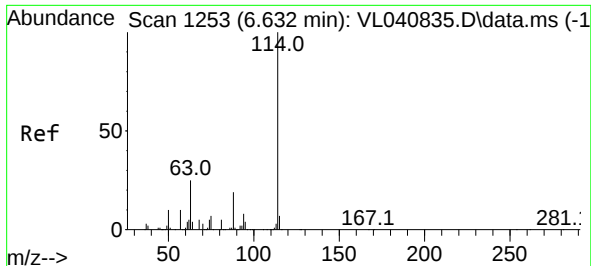
Tgt Ion: 43 Resp: 64735  
Ion Ratio Lower Upper  
43 100  
45 1.7 8.1 12.1#  
61 0.4 7.8 11.6#  
70 1.9 5.3 7.9#



#26  
Hexane  
Concen: 0.925 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.026 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

Tgt Ion: 57 Resp: 88889  
Ion Ratio Lower Upper  
57 100  
41 101.5 75.4 113.0  
43 76.8 185.9 278.9#  
56 58.3 42.6 63.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

Instrument :

MSVOA\_L

ClientSampleId :

NT-SS-9

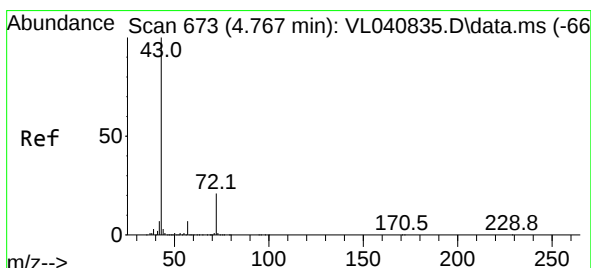
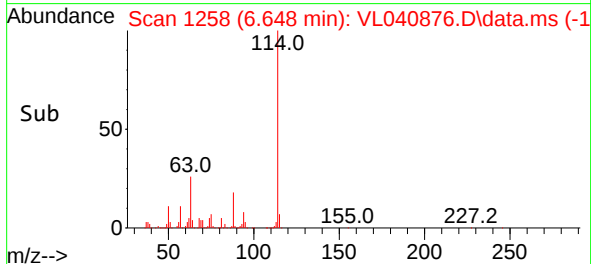
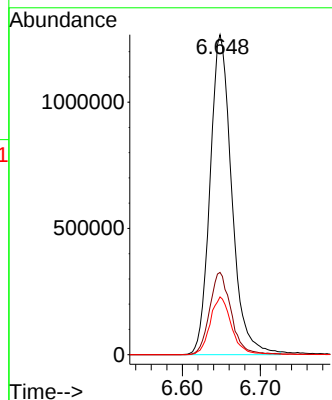
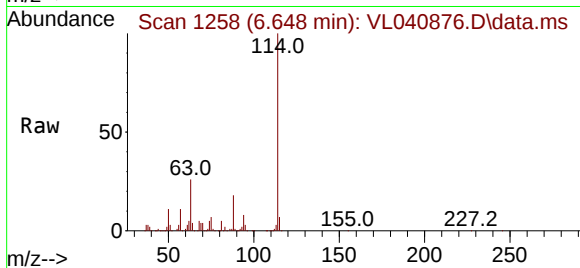
Tgt Ion:114 Resp: 2451391

Ion Ratio Lower Upper

114 100

63 25.9 20.9 31.3

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.132 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.045 min

Lab File: VL040876.D

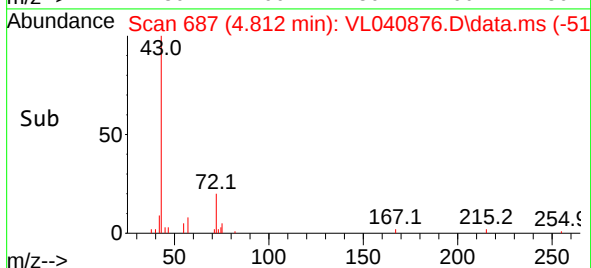
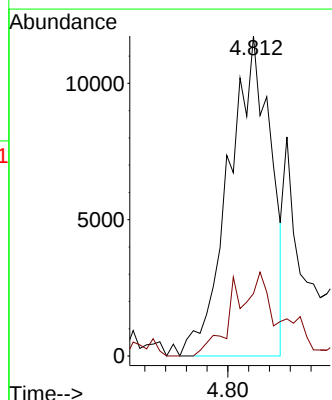
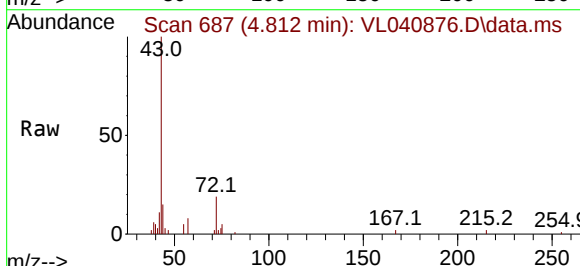
Acq: 15 Nov 2023 20:10

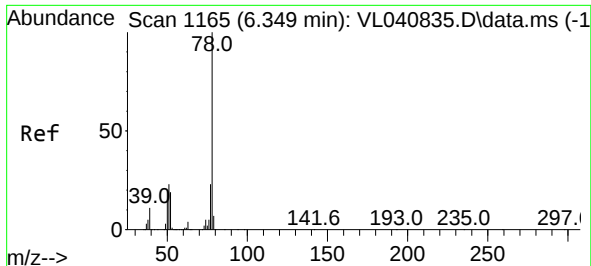
Tgt Ion: 43 Resp: 16476

Ion Ratio Lower Upper

43 100

72 33.2 17.2 25.8#





#36

Benzene

Concen: 0.039 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

Instrument :

MSVOA\_L

ClientSampleId :

NT-SS-9

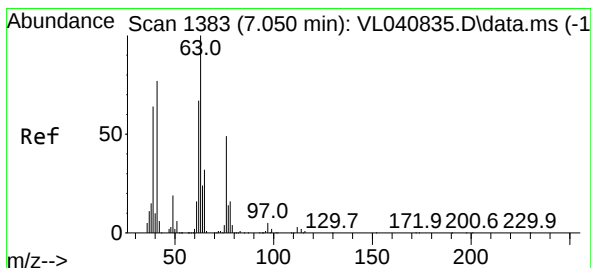
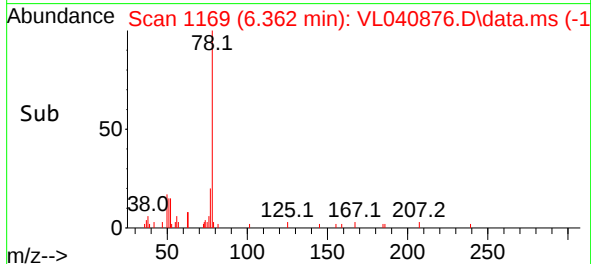
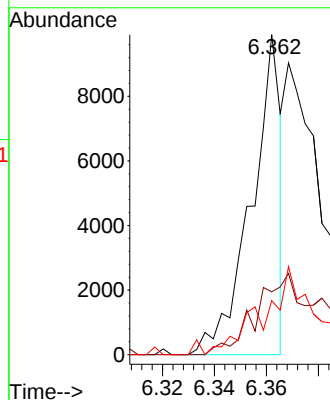
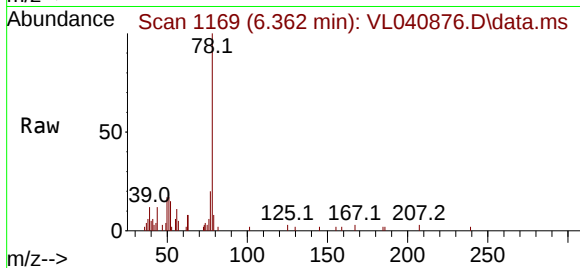
Tgt Ion: 78 Resp: 7769

Ion Ratio Lower Upper

78 100

77 19.6 18.4 27.6

50 16.9 16.2 24.2



#39

1,2-Dichloropropane

Concen: 7.888 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.402 min

Lab File: VL040876.D

Acq: 15 Nov 2023 20:10

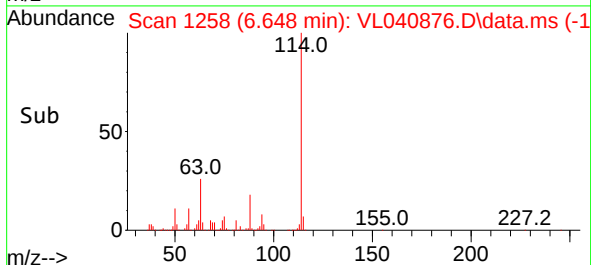
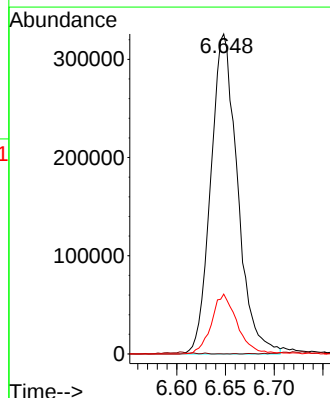
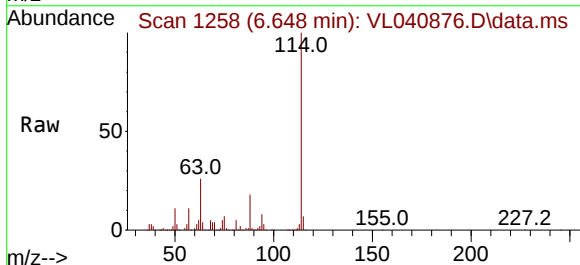
Tgt Ion: 63 Resp: 622243

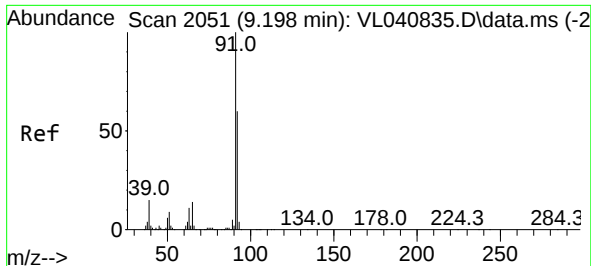
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 18.7 53.9 80.9#

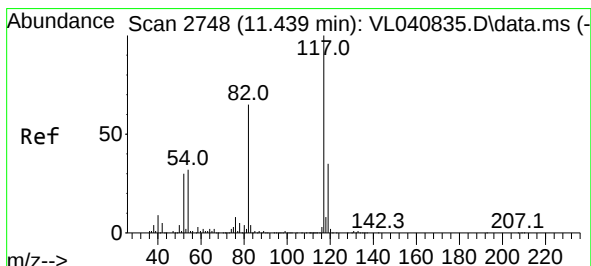
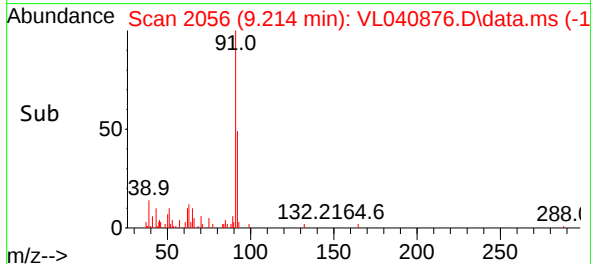
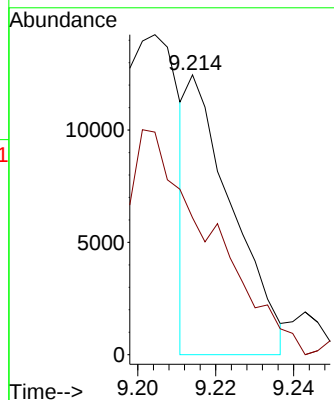
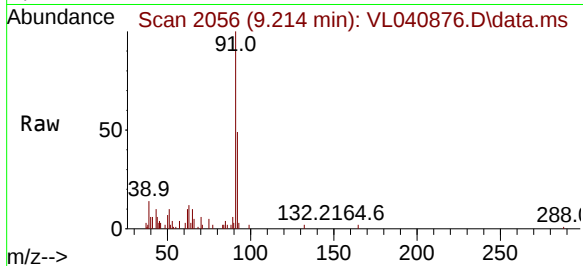




#53  
Toluene  
Concen: 0.046 ppbv  
RT: 9.214 min Scan# 2051  
Delta R.T. 0.016 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

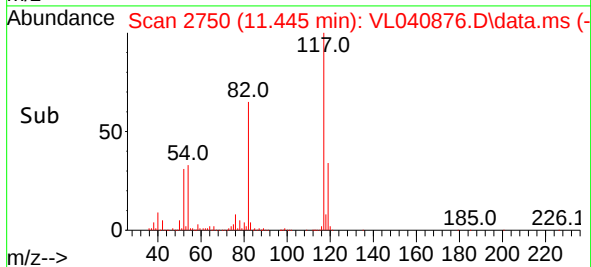
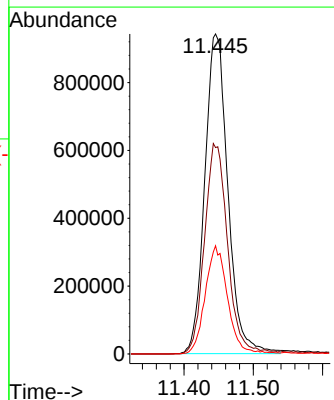
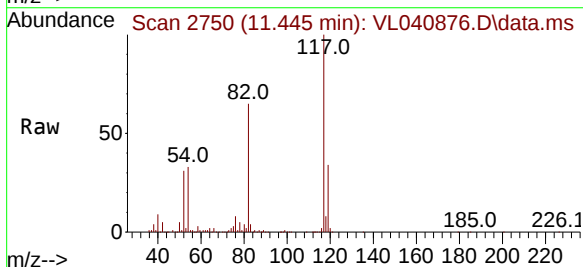
Instrument :  
MSVOA\_L  
ClientSampleId :  
NT-SS-9

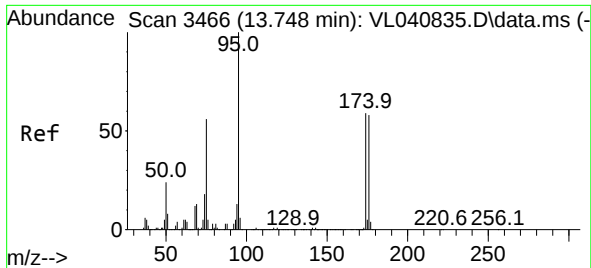
Tgt Ion: 91 Resp: 10001  
Ion Ratio Lower Upper  
91 100  
92 0.0 49.4 74.2#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.445 min Scan# 2750  
Delta R.T. 0.006 min  
Lab File: VL040876.D  
Acq: 15 Nov 2023 20:10

Tgt Ion: 117 Resp: 2177967  
Ion Ratio Lower Upper  
117 100  
82 66.8 50.6 75.8  
119 33.1 23.3 34.9





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.935 ppbv  
 RT: 13.754 min Scan# 34  
 Delta R.T. 0.006 min  
 Lab File: VL040876.D  
 Acq: 15 Nov 2023 20:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 NT-SS-9

Tgt Ion: 95 Resp: 1694042  
 Ion Ratio Lower Upper  
 95 100  
 174 60.3 47.5 71.3  
 175 4.5 3.6 5.4

