

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081224\  
 Data File : VL041537.D  
 Acq On : 12 Aug 2024 15:51  
 Operator : SY/MD  
 Sample : P3496-05DL2 100X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-4DL2

Quant Time: Aug 13 02:14:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Aug 13 02:09:20 2024  
 Response via : Initial Calibration

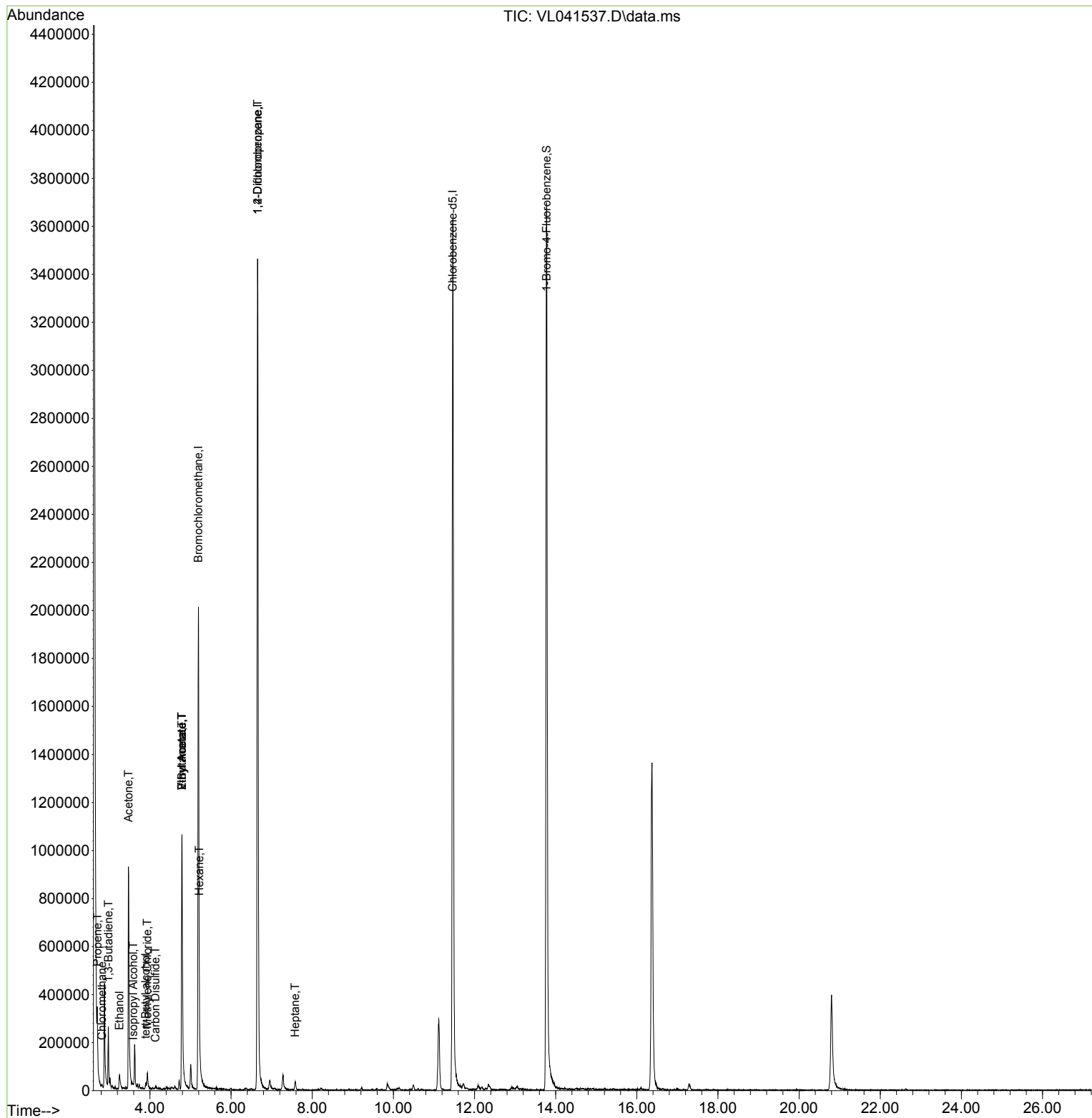
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.195  | 49    | 966254   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.655  | 114   | 2561986  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.465 | 117   | 2386960  | 10.000   | ppbv   | # 0.00   |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 1822945  | 9.924    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.200%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 4) Chloromethane            | 2.819  | 50    | 3691     | 0.060    | ppbv   | 94       |
| 9) Propene                  | 2.703  | 41    | 76196    | 1.442    | ppbv   | 96       |
| 10) Heptane                 | 7.581  | 43    | 9323     | 0.079    | ppbv # | 82       |
| 13) Ethanol                 | 3.250  | 45    | 45024    | 9.533    | ppbv # | 53       |
| 15) Acetone                 | 3.472  | 43    | 936633   | 8.531    | ppbv   | 94       |
| 16) 1,3-Butadiene           | 2.976  | 39    | 57959    | 0.988    | ppbv # | 22       |
| 17) tert-Butyl alcohol      | 3.896  | 59    | 6862     | 0.069    | ppbv # | 72       |
| 19) Isopropyl Alcohol       | 3.587  | 45    | 11247    | 0.175    | ppbv # | 93       |
| 20) Methylene Chloride      | 3.938  | 84    | 19024    | 0.465    | ppbv   | 93       |
| 23) Vinyl Acetate           | 4.790  | 43    | 1277993  | 15.242   | ppbv # | 90       |
| 25) Ethyl Acetate           | 4.790  | 43    | 1277993  | 5.859    | ppbv # | 75       |
| 26) Hexane                  | 5.214  | 57    | 7597     | 0.084    | ppbv # | 1        |
| 27) Carbon Disulfide        | 4.134  | 76    | 7141     | 0.067    | ppbv # | 19       |
| 34) 2-Butanone              | 4.790  | 43    | 1277993  | 10.312   | ppbv   | 99       |
| 39) 1,2-Dichloropropane     | 6.655  | 63    | 630925   | 8.803    | ppbv # | 25       |
| -----                       |        |       |          |          |        |          |

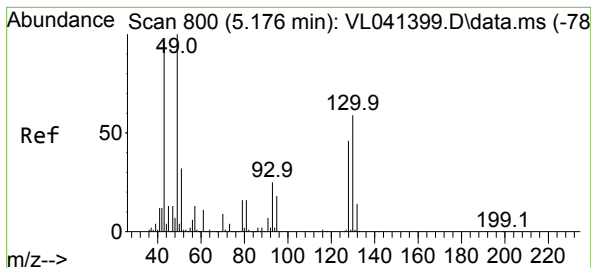
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072524AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Aug 13 02:09:20 2024  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.007 min

Lab File: VL041537.D

Acq: 12 Aug 2024 15:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

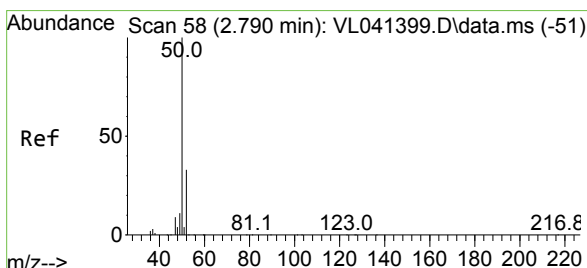
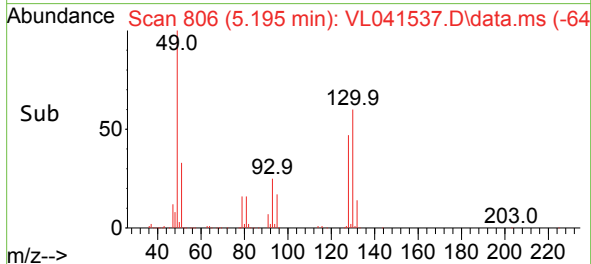
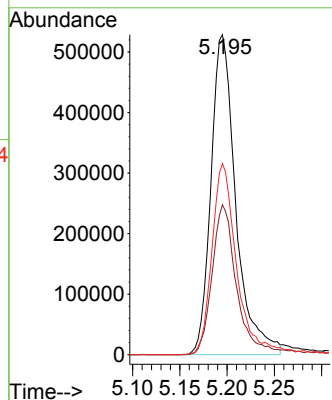
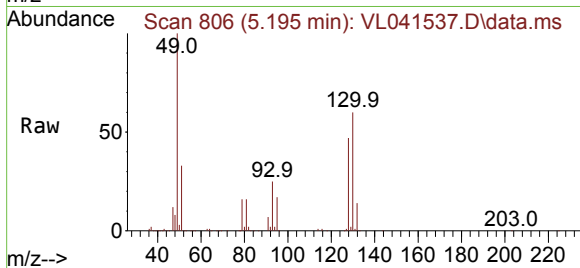
Tgt Ion: 49 Resp: 966254

Ion Ratio Lower Upper

49 100

128 47.6 23.8 71.4

130 62.2 30.8 92.4



#4

Chloromethane

Concen: 0.060 ppbv

RT: 2.819 min Scan# 67

Delta R.T. 0.007 min

Lab File: VL041537.D

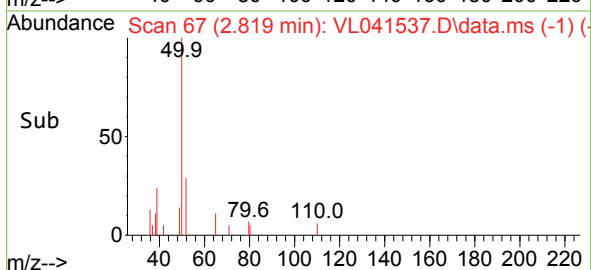
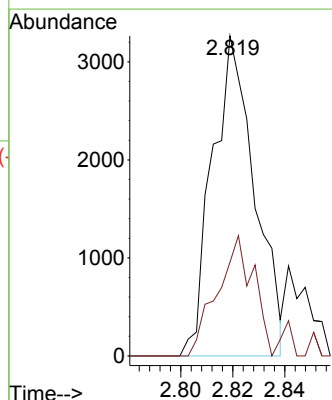
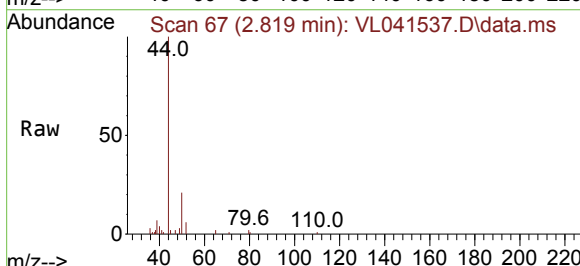
Acq: 12 Aug 2024 15:51

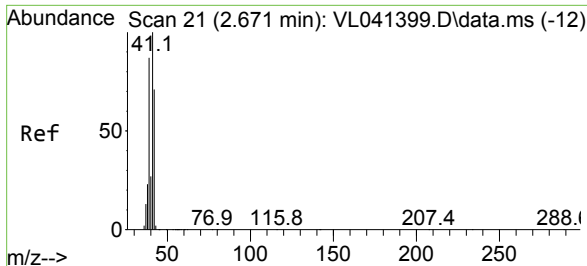
Tgt Ion: 50 Resp: 3691

Ion Ratio Lower Upper

50 100

52 29.3 26.1 39.1





#9

Propene

Concen: 1.442 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL041537.D

Acq: 12 Aug 2024 15:51

Instrument :

MSVOA\_L

ClientSampleId :

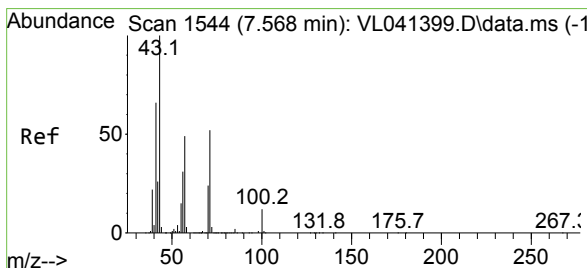
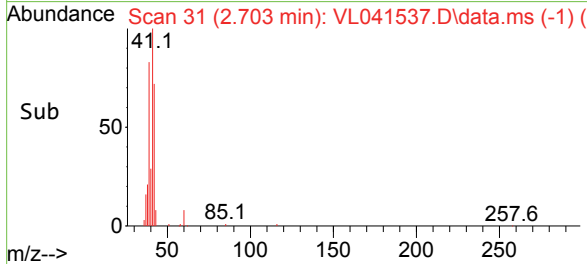
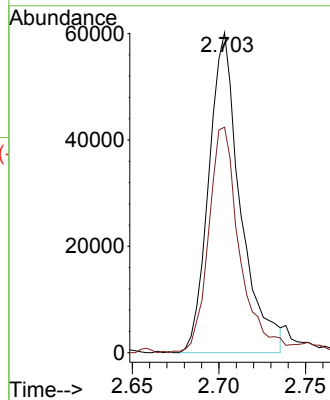
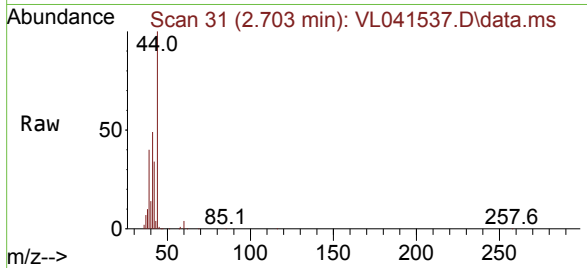
SV-4DL2

Tgt Ion: 41 Resp: 76196

Ion Ratio Lower Upper

41 100

42 72.9 55.9 83.9



#10

Heptane

Concen: 0.079 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041537.D

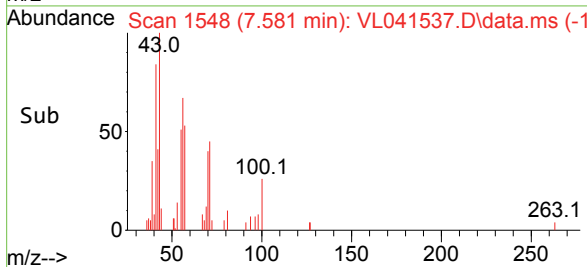
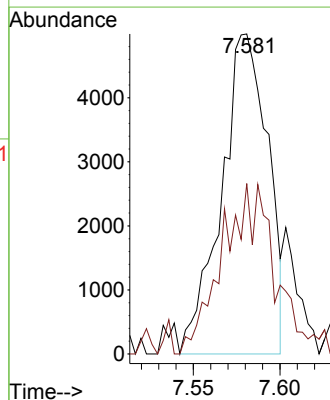
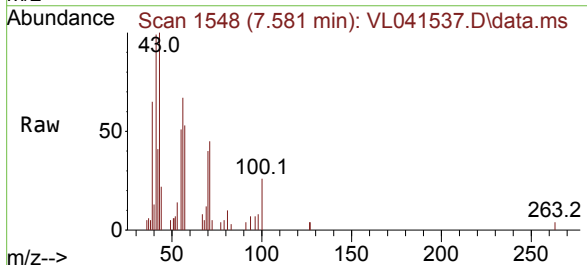
Acq: 12 Aug 2024 15:51

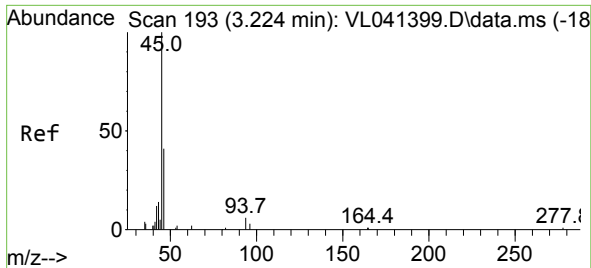
Tgt Ion: 43 Resp: 9323

Ion Ratio Lower Upper

43 100

57 62.8 40.5 60.7#

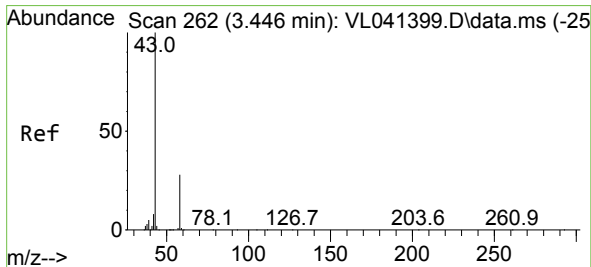
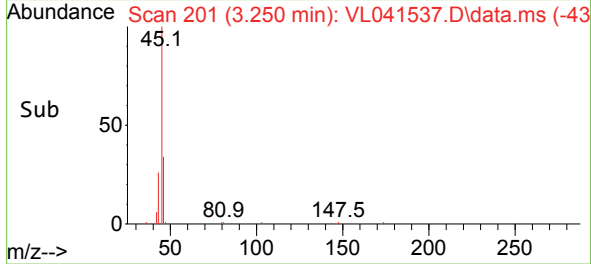
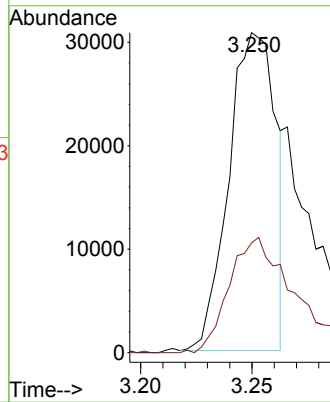
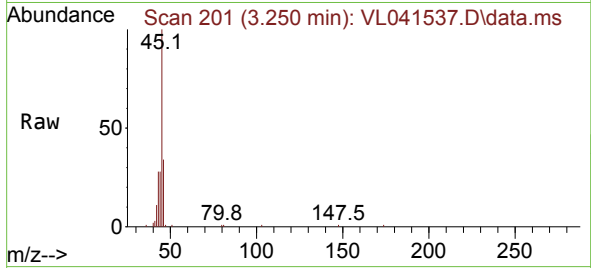




#13  
Ethanol  
Concen: 9.533 ppbv  
RT: 3.250 min Scan# 201  
Delta R.T. 0.007 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

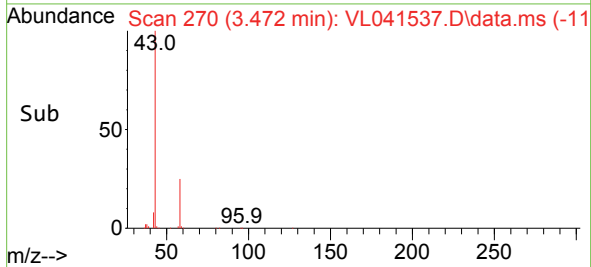
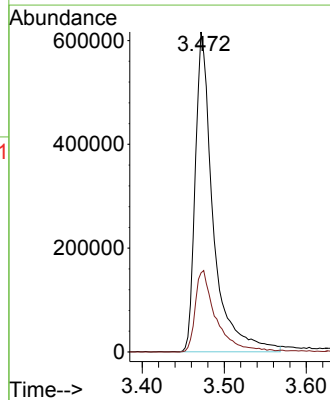
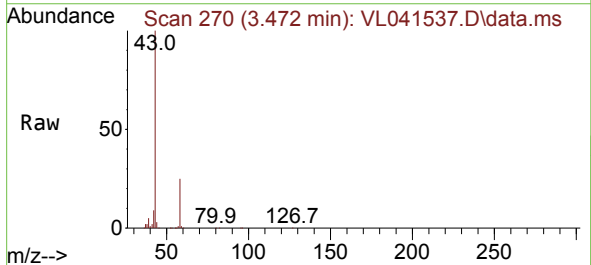
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

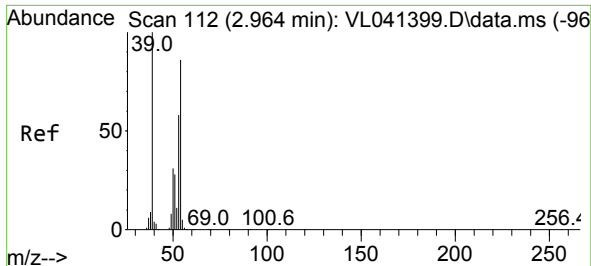
Tgt Ion: 45 Resp: 45024  
Ion Ratio Lower Upper  
45 100  
46 59.9 13.4 53.4#



#15  
Acetone  
Concen: 8.531 ppbv  
RT: 3.472 min Scan# 270  
Delta R.T. 0.003 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

Tgt Ion: 43 Resp: 936633  
Ion Ratio Lower Upper  
43 100  
58 30.1 21.4 32.2

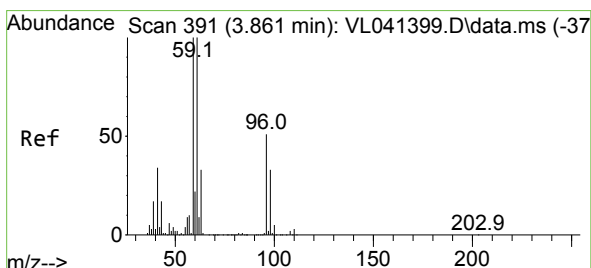
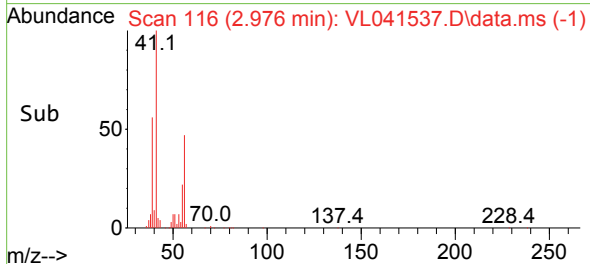
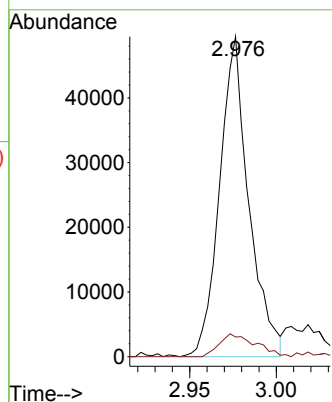
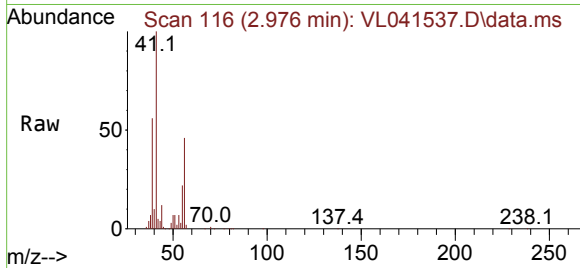




#16  
1,3-Butadiene  
Concen: 0.988 ppbv  
RT: 2.976 min Scan# 116  
Delta R.T. -0.010 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

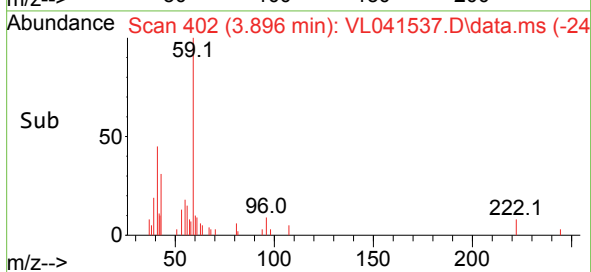
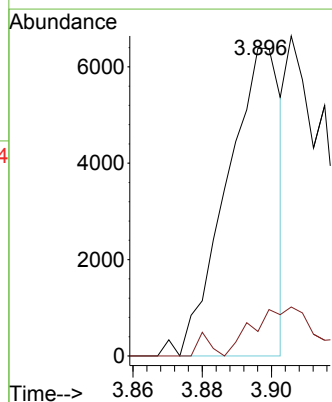
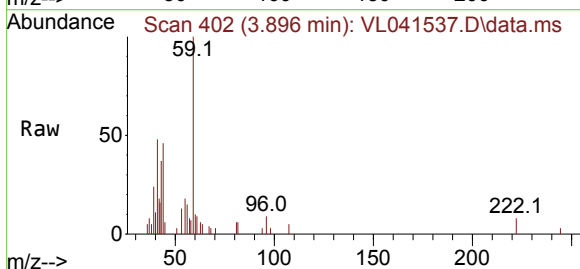
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

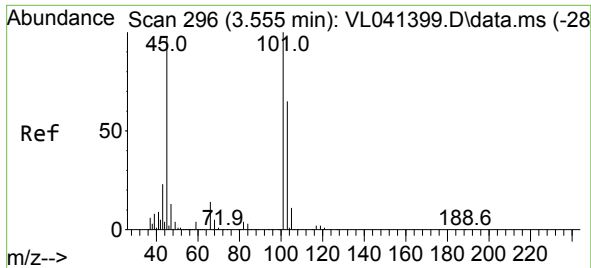
Tgt Ion: 39 Resp: 57959  
Ion Ratio Lower Upper  
39 100  
54 9.9 62.5 93.7#



#17  
tert-Butyl alcohol  
Concen: 0.069 ppbv  
RT: 3.896 min Scan# 402  
Delta R.T. 0.019 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

Tgt Ion: 59 Resp: 6862  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

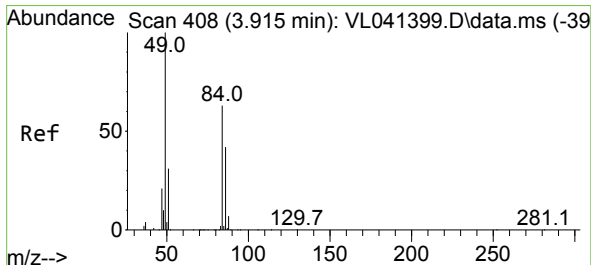
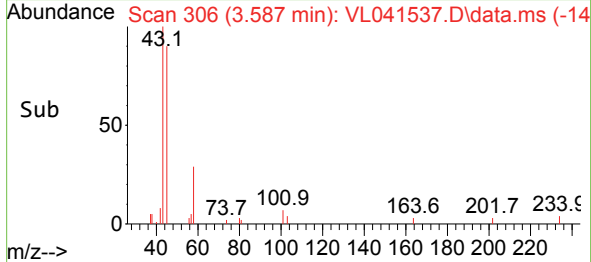
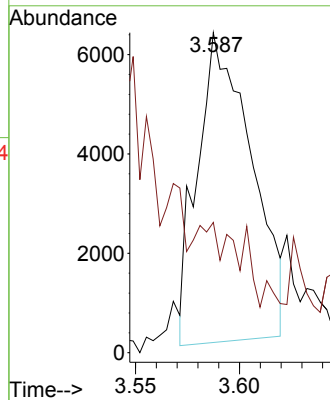
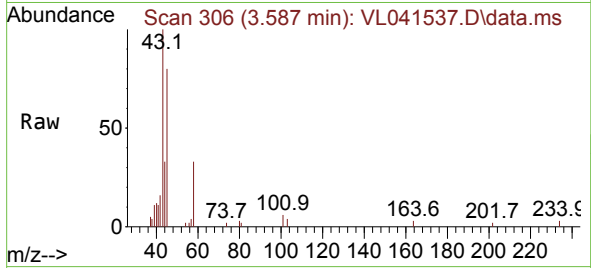




#19  
Isopropyl Alcohol  
Concen: 0.175 ppbv  
RT: 3.587 min Scan# 306  
Delta R.T. 0.013 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

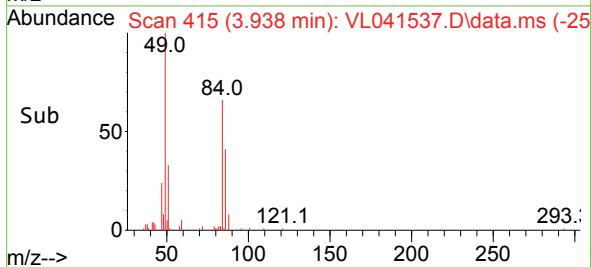
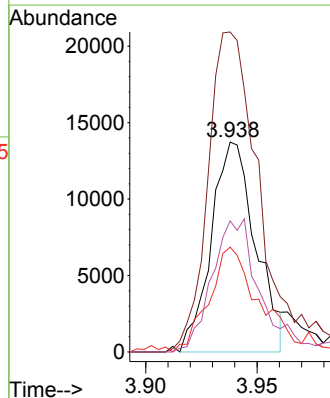
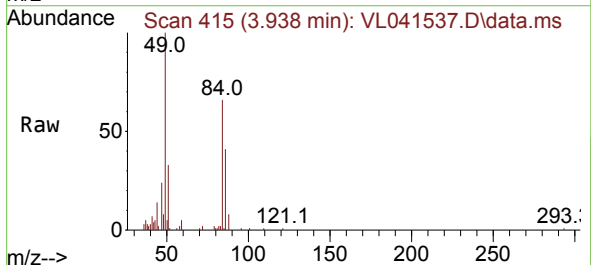
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

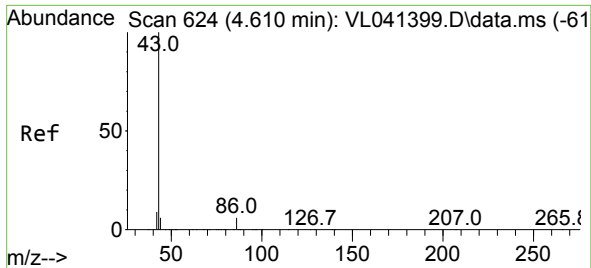
Tgt Ion: 45 Resp: 11247  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.9 2.9#



#20  
Methylene Chloride  
Concen: 0.465 ppbv  
RT: 3.938 min Scan# 415  
Delta R.T. 0.007 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

Tgt Ion: 84 Resp: 19024  
Ion Ratio Lower Upper  
84 100  
49 147.2 126.6 190.0  
51 47.7 38.6 58.0  
86 60.5 53.0 79.4



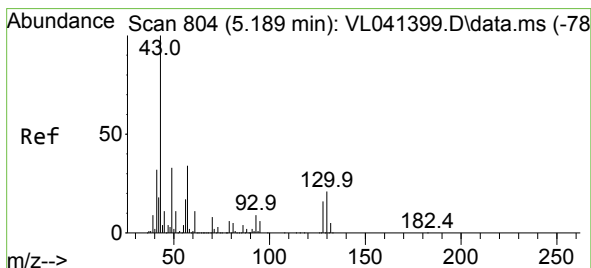
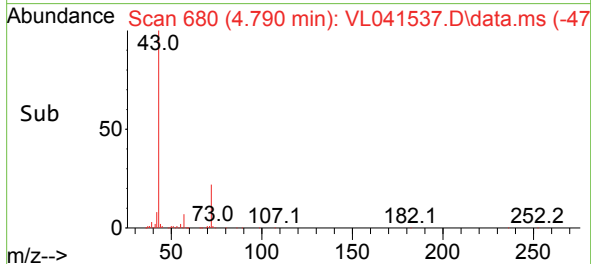
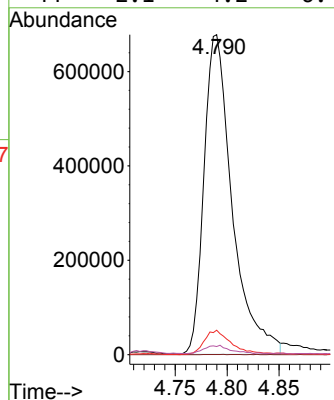
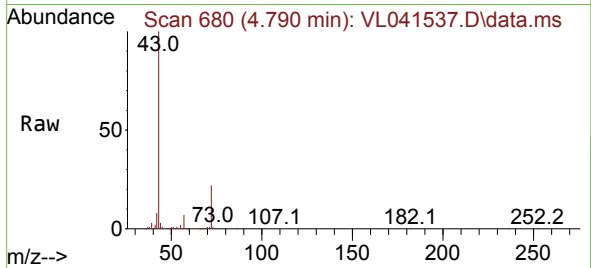


#23  
 Vinyl Acetate  
 Concen: 15.242 ppbv  
 RT: 4.790 min Scan# 680  
 Delta R.T. 0.164 min  
 Lab File: VL041537.D  
 Acq: 12 Aug 2024 15:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-4DL2

Tgt Ion: 43 Resp: 1277993

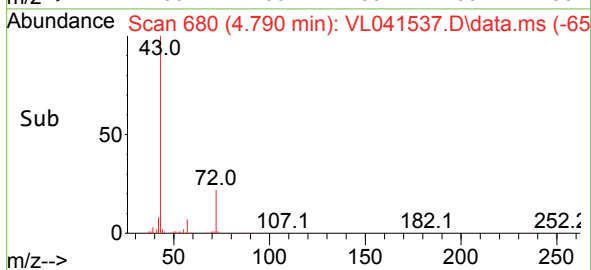
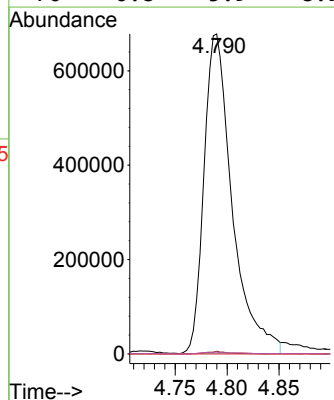
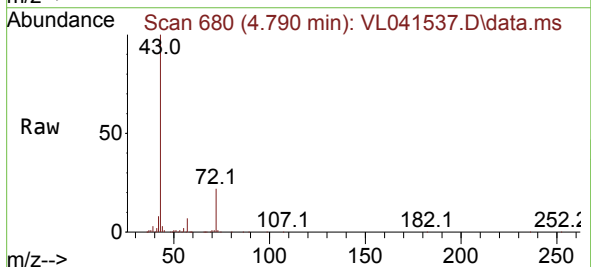
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.0   | 4.6   | 6.8#  |
| 42  | 7.5   | 7.9   | 11.9# |
| 44  | 2.1   | 4.2   | 6.4#  |

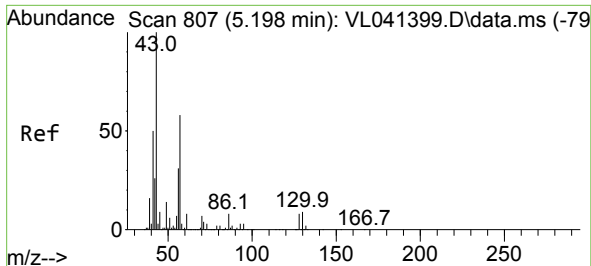


#25  
 Ethyl Acetate  
 Concen: 5.859 ppbv  
 RT: 4.790 min Scan# 680  
 Delta R.T. -0.411 min  
 Lab File: VL041537.D  
 Acq: 12 Aug 2024 15:51

Tgt Ion: 43 Resp: 1277993

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 0.7   | 8.5   | 12.7# |
| 61  | 0.0   | 8.0   | 12.0# |
| 70  | 0.8   | 5.9   | 8.9#  |

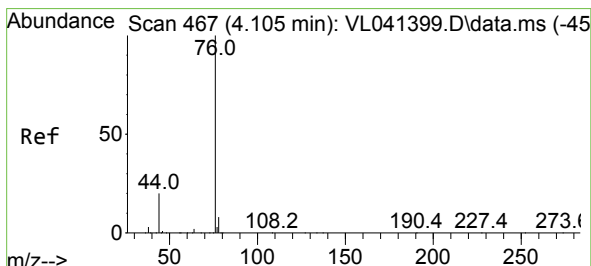
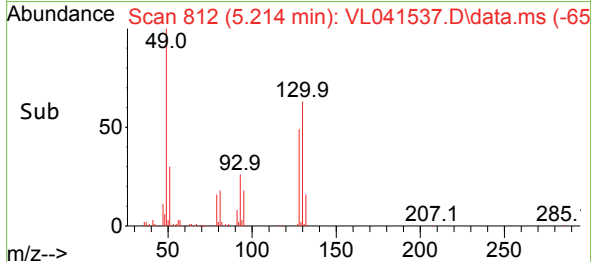
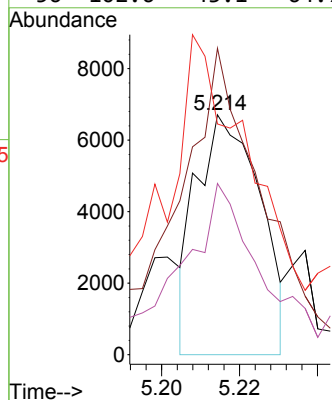
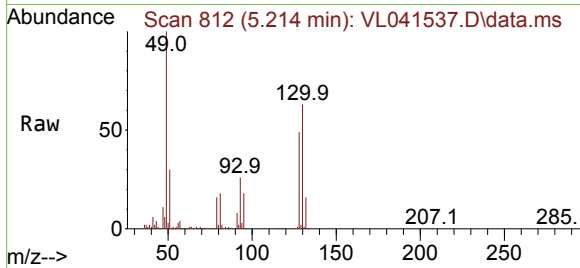




#26  
Hexane  
Concen: 0.084 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. 0.003 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

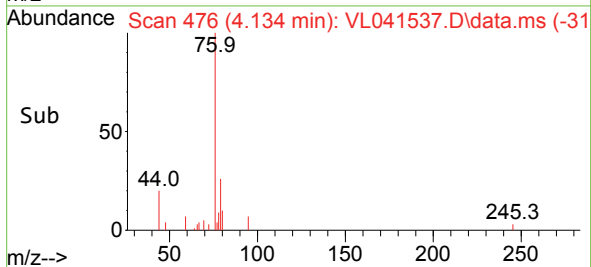
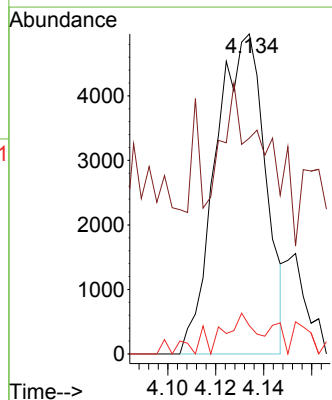
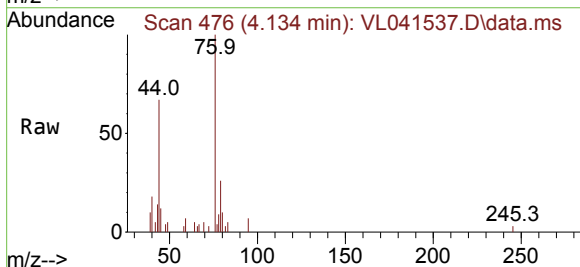
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

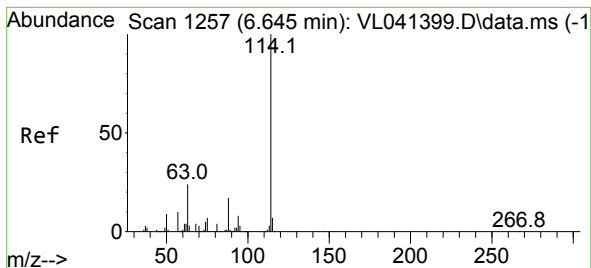
Tgt Ion: 57 Resp: 7597  
Ion Ratio Lower Upper  
57 100  
41 203.4 74.0 111.0#  
43 0.0 193.6 290.4#  
56 102.6 43.1 64.7#



#27  
Carbon Disulfide  
Concen: 0.067 ppbv  
RT: 4.134 min Scan# 476  
Delta R.T. 0.010 min  
Lab File: VL041537.D  
Acq: 12 Aug 2024 15:51

Tgt Ion: 76 Resp: 7141  
Ion Ratio Lower Upper  
76 100  
44 73.1 15.6 23.4#  
78 12.1 7.7 11.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041537.D

Acq: 12 Aug 2024 15:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

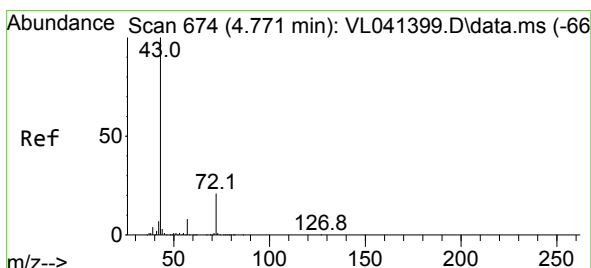
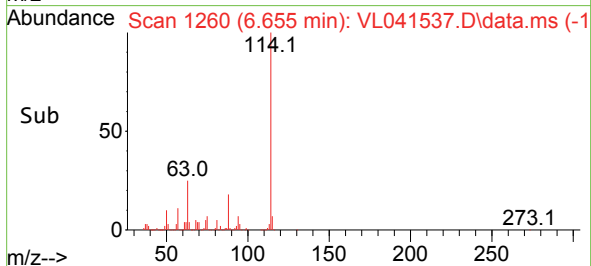
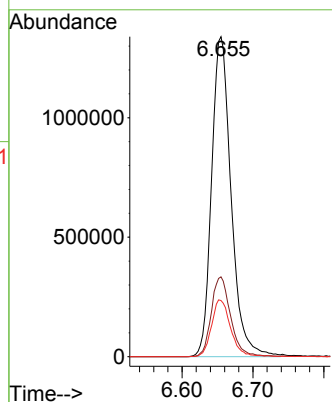
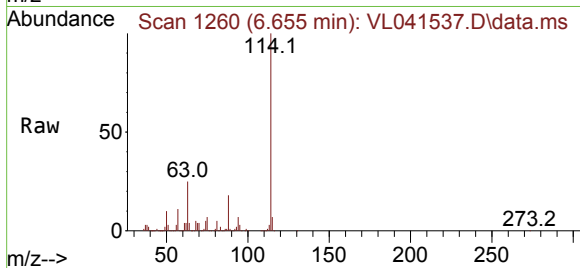
Tgt Ion:114 Resp: 2561986

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.6 14.3 21.5



#34

2-Butanone

Concen: 10.312 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.007 min

Lab File: VL041537.D

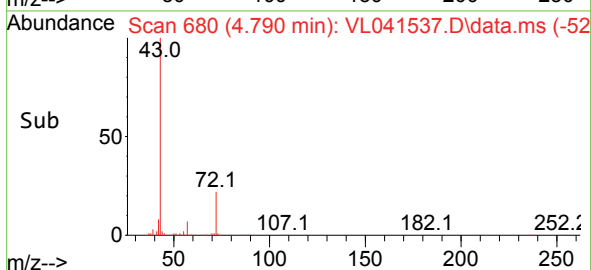
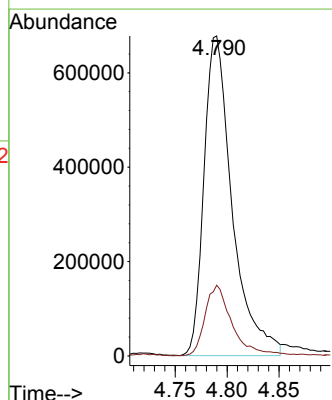
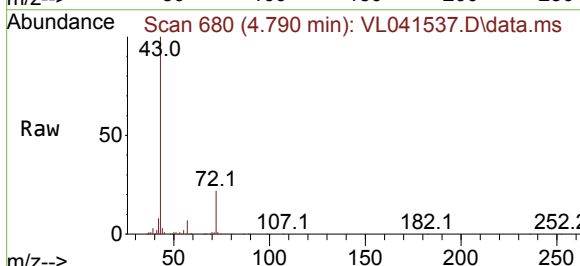
Acq: 12 Aug 2024 15:51

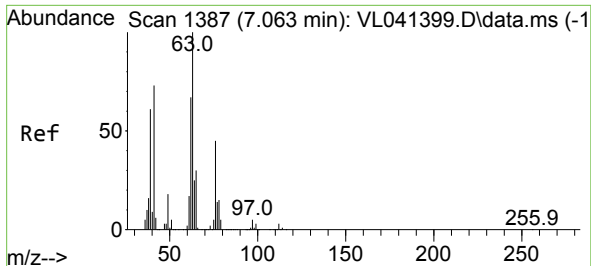
Tgt Ion: 43 Resp: 1277993

Ion Ratio Lower Upper

43 100

72 21.9 17.3 25.9





#39

1,2-Dichloropropane

Concen: 8.803 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041537.D

Acq: 12 Aug 2024 15:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

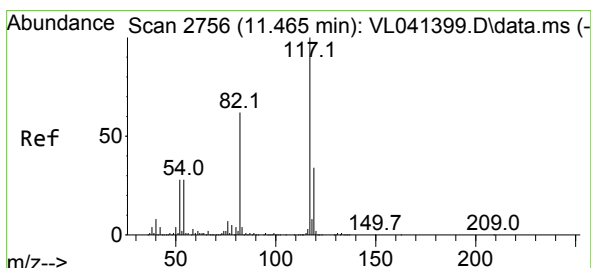
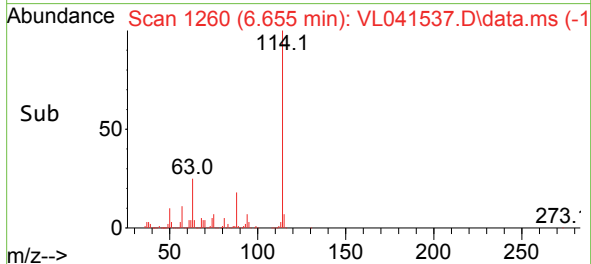
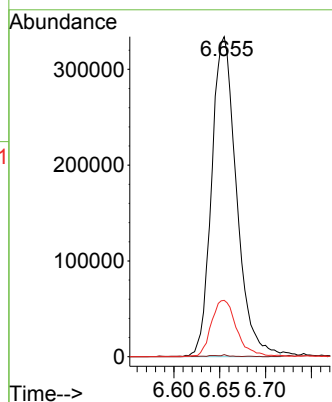
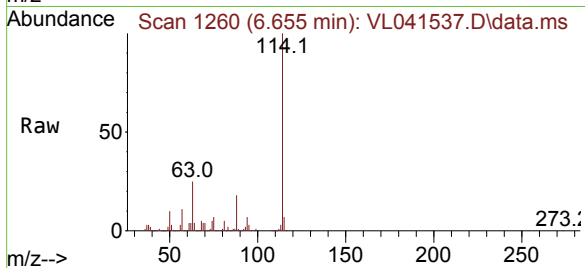
Tgt Ion: 63 Resp: 630925

Ion Ratio Lower Upper

63 100

41 0.5 58.3 87.5#

62 17.6 53.9 80.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 2756

Delta R.T. 0.000 min

Lab File: VL041537.D

Acq: 12 Aug 2024 15:51

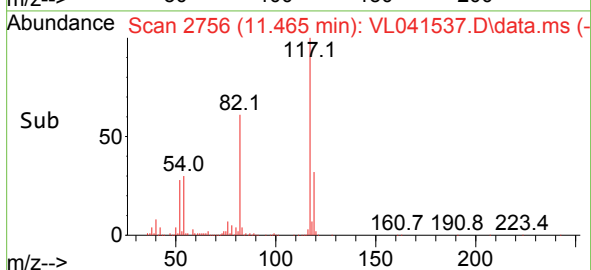
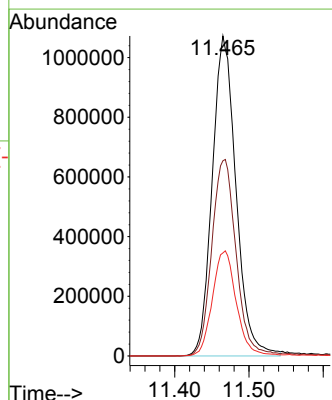
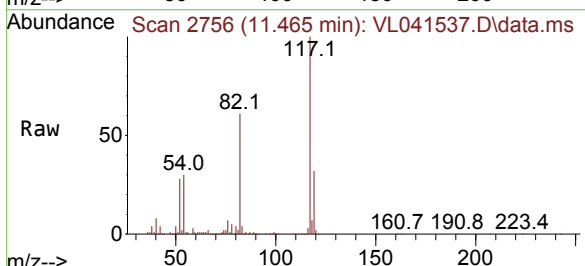
Tgt Ion: 117 Resp: 2386960

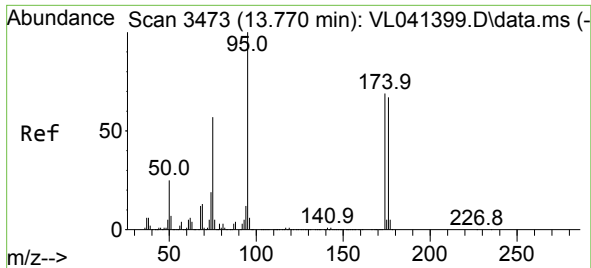
Ion Ratio Lower Upper

117 100

82 64.1 51.0 76.6

119 33.7 45.2 67.8#





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.924 ppbv  
 RT: 13.777 min Scan# 3475  
 Delta R.T. 0.003 min  
 Lab File: VL041537.D  
 Acq: 12 Aug 2024 15:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-4DL2

Tgt Ion: 95 Resp: 1822945  
 Ion Ratio Lower Upper  
 95 100  
 174 70.8 56.3 84.5  
 175 5.0 4.0 6.0

