

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\  
 Data File : VL037077.D  
 Acq On : 1 Jun 2021 19:36  
 Operator : SY/AP  
 Sample : M2559-04DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 HSG4DL

Manual Integrations  
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MMDadoda  
 6/7/2021 2:59:06 PM

Quant Time: Jun 04 11:47:26 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1598018  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4710256  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 4297004  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 3154881  | 9.77     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.70% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                 | 3.01  | 41   | 21918    | 0.209  | ppbv   | 96     |
| 10) Heptane                | 8.11  | 43   | 56085m   | 0.215  | ppbv   |        |
| 13) Ethanol                | 3.61  | 45   | 159518m  | 11.405 | ppbv   |        |
| 15) Acetone                | 3.84  | 43   | 769240m  | 4.700  | ppbv   |        |
| 20) Methylene Chloride     | 4.33  | 84   | 744309   | 8.483  | ppbv   | 99     |
| 26) Hexane                 | 5.67  | 57   | 619958   | 3.085  | ppbv # | 46     |
| 36) Benzene                | 6.88  | 78   | 46518    | 0.115  | ppbv # | 88     |
| 44) 2,2,4-Trimethylpentane | 7.85  | 57   | 66262    | 0.095  | ppbv # | 60     |
| 53) Toluene                | 9.79  | 91   | 252069   | 0.522  | ppbv   | 96     |
| 59) m/p-Xylene             | 12.95 | 91   | 134566m  | 0.268  | ppbv   |        |

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

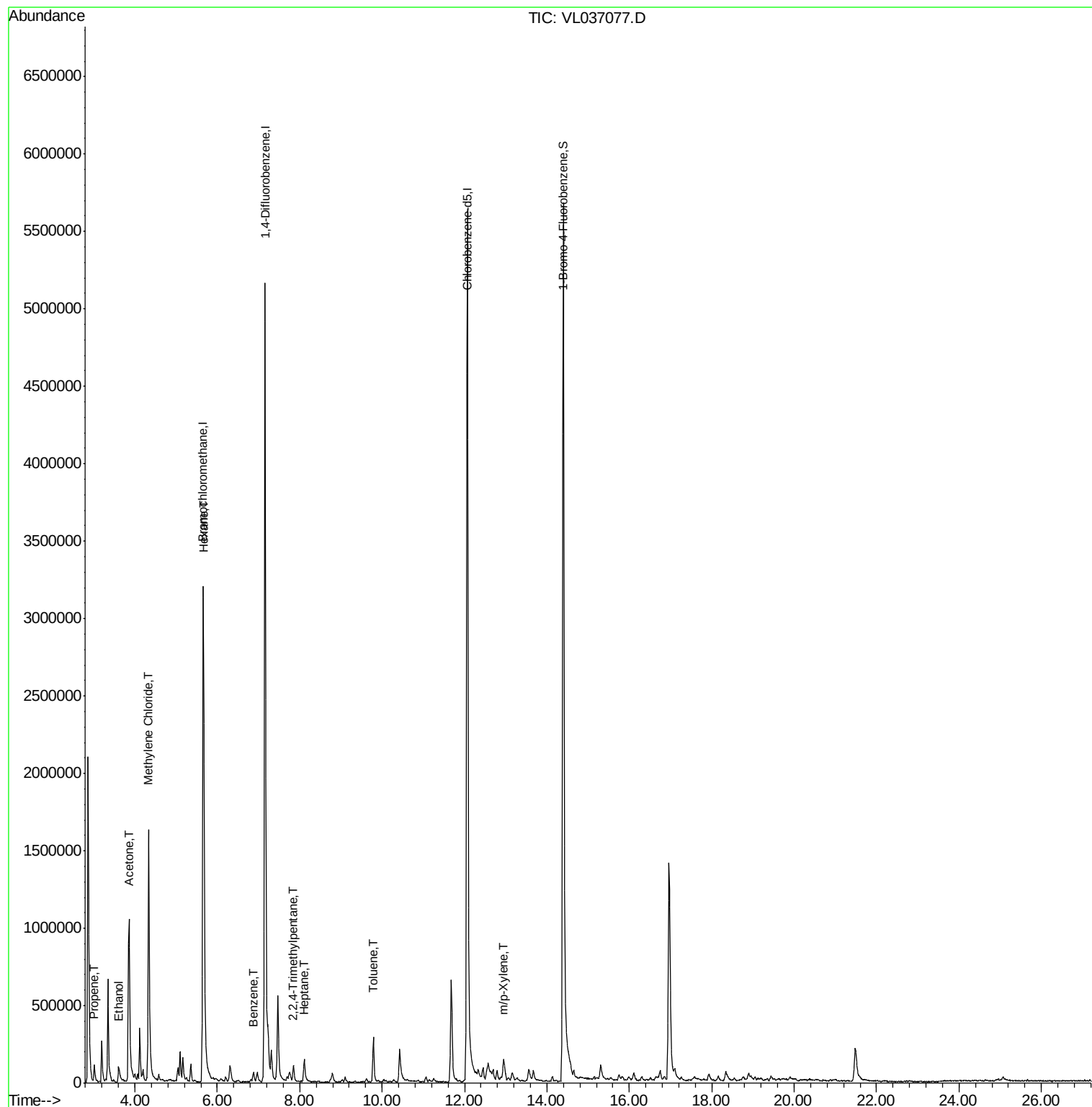
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\  
Data File : VL037077.D  
Acq On : 1 Jun 2021 19:36  
Operator : SY/AP  
Sample : M2559-04DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

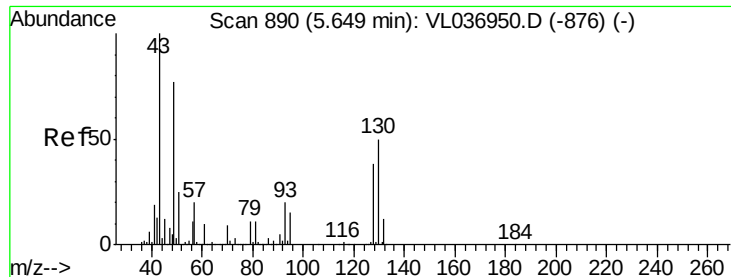
Instrument :  
MSVOA\_L  
ClientSampleId :  
HSG4DL

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6/7/2021 2:59:06 PM

Quant Time: Jun 04 11:47:26 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA\_L

ClientSampled :

HSG4DL

Tot Ion: 49 Resp: 1598018

Ion Ratio Lower Upper

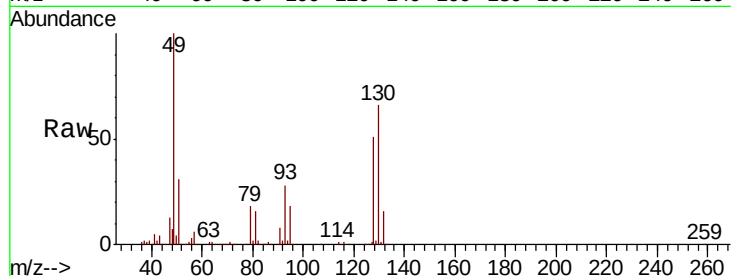
49 100

128 57.0 26.9 80.7

130 71.9 33.8 101.4

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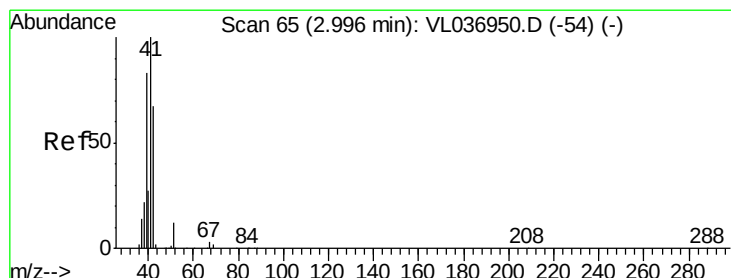
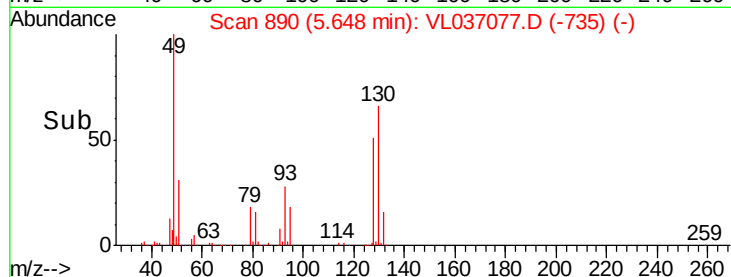
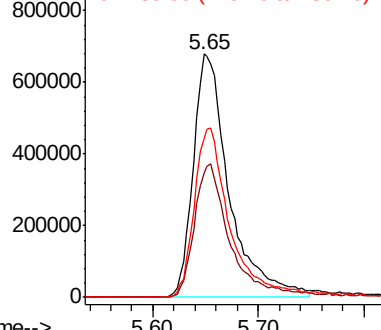
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.209 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037077.D

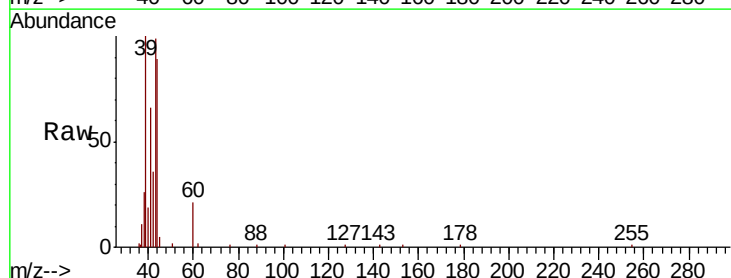
Acq: 1 Jun 2021 19:36

Tgt Ion: 41 Resp: 21918

Ion Ratio Lower Upper

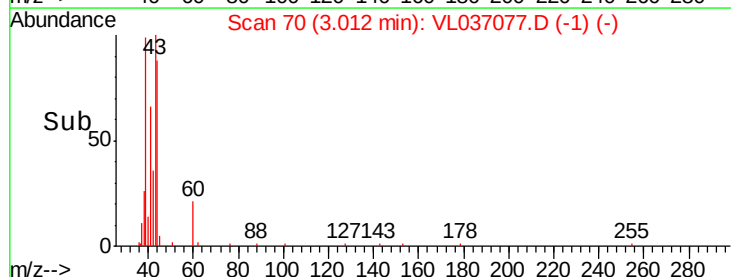
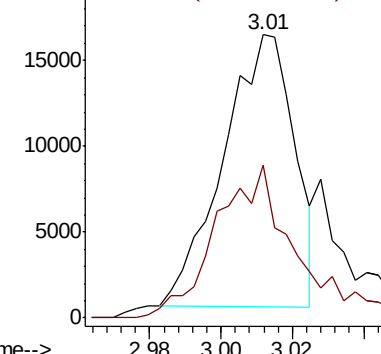
41 100

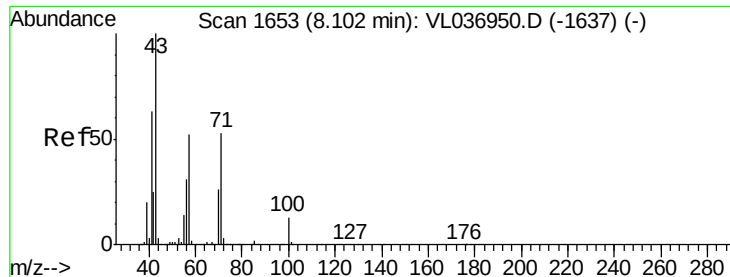
42 64.4 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





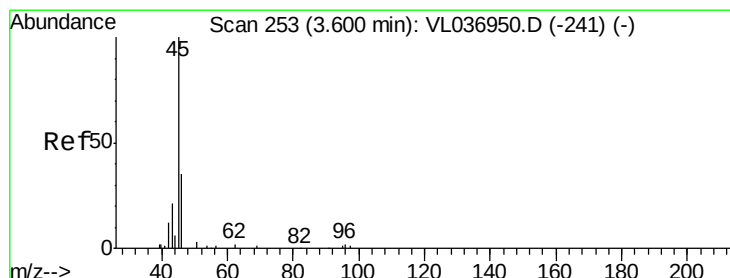
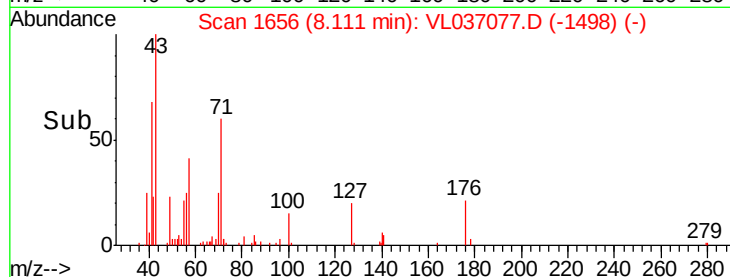
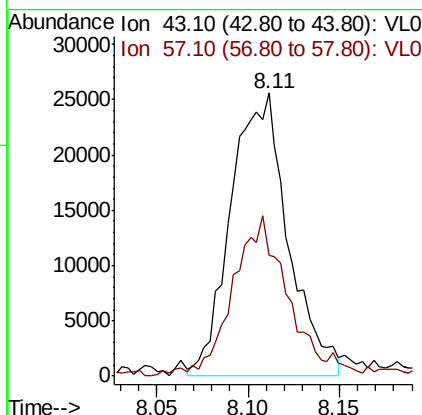
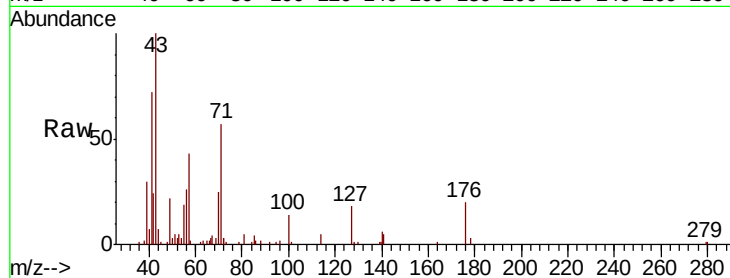
#10  
Heptane  
Concen: 0.215 ppbv m  
RT: 8.11 min Scan# 1656  
Delta R.T. 0.01 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
HSG4DL

Tot Ion: 43 Resp: 56085  
Ion Ratio Lower Upper  
43 100  
57 0.0 41.0 61.6#

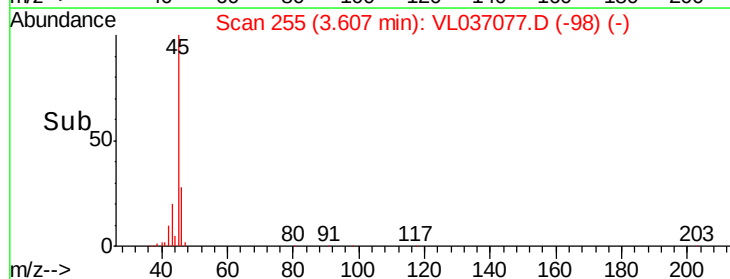
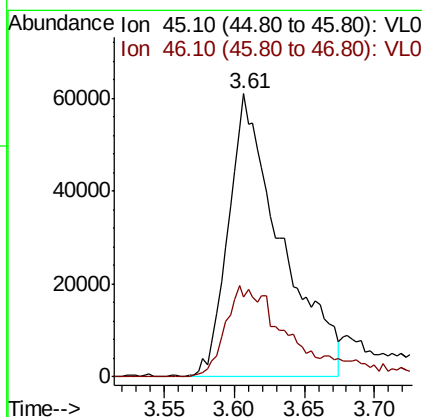
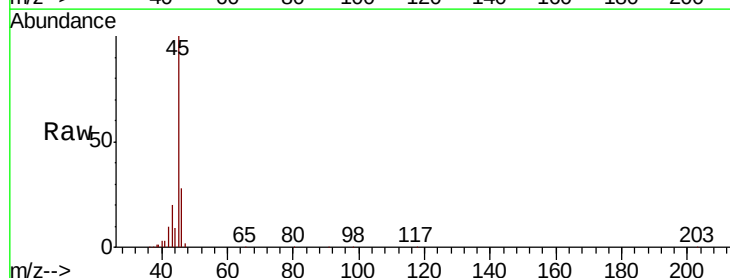
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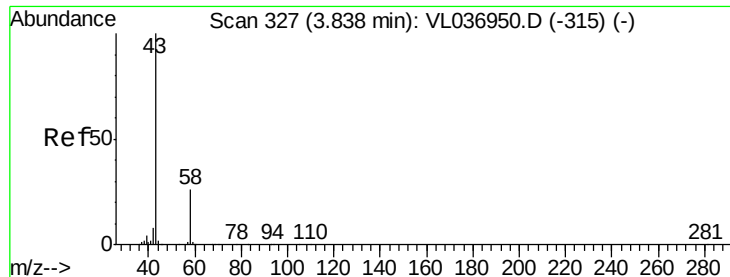
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#13  
Ethanol  
Concen: 11.405 ppbv m  
RT: 3.61 min Scan# 255  
Delta R.T. 0.01 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

Tgt Ion: 45 Resp: 159518  
Ion Ratio Lower Upper  
45 100  
46 41.2 16.3 65.3





#15

Acetone

Concen: 4.700 ppbv m

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA\_L

ClientSampleId :

HSG4DL

Tot Ion: 43 Resp: 769240

Ion Ratio Lower Upper

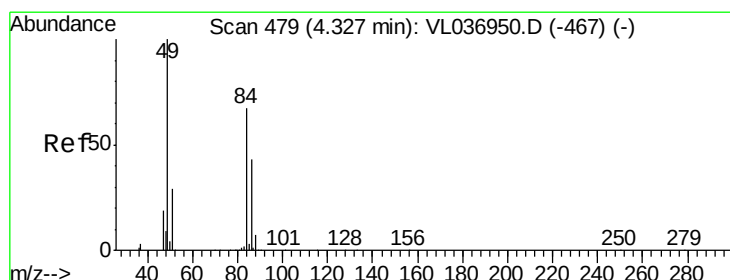
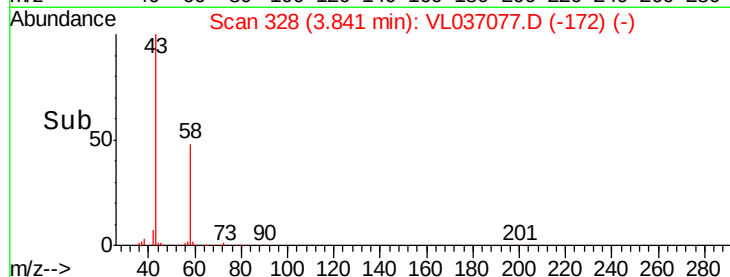
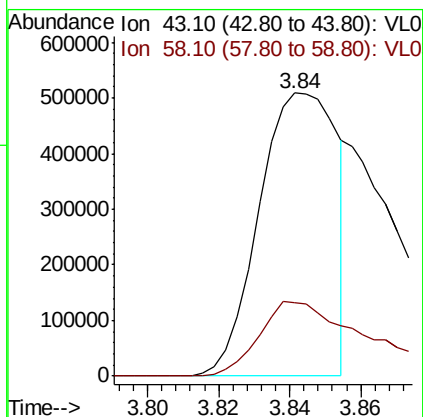
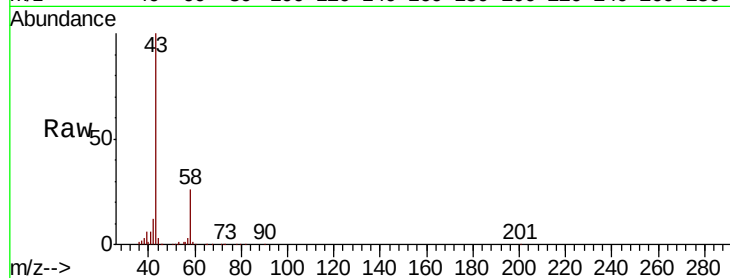
43 100

58 46.0 24.0 36.0#

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#20

Methylene Chloride

Concen: 8.483 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Tgt Ion: 84 Resp: 744309

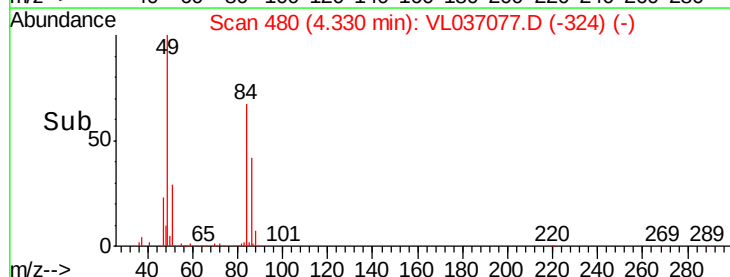
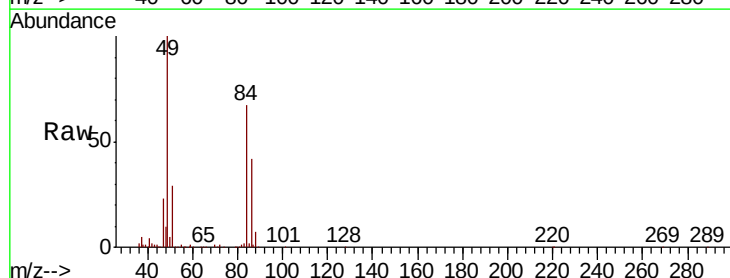
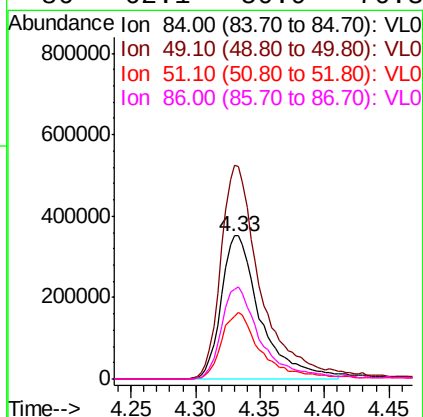
Ion Ratio Lower Upper

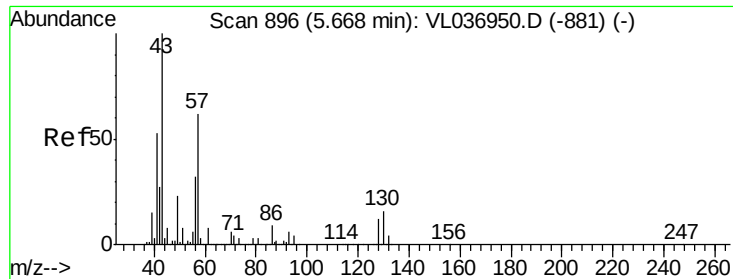
84 100

49 148.8 119.8 179.6

51 43.2 35.1 52.7

86 62.1 50.9 76.3





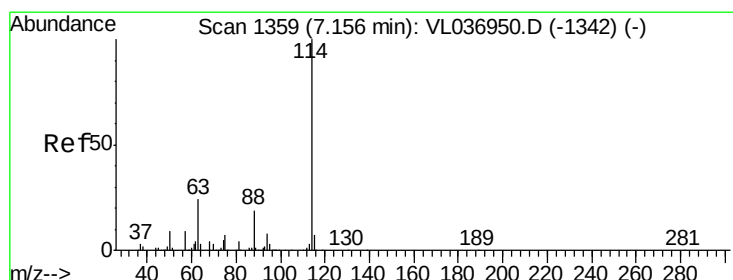
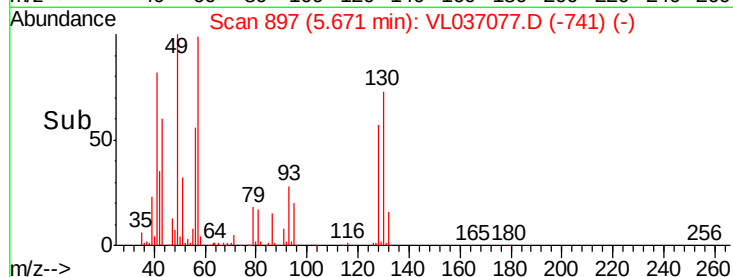
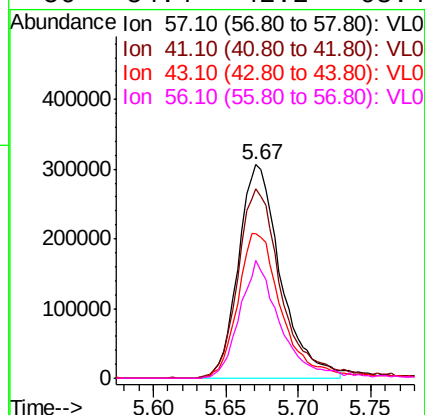
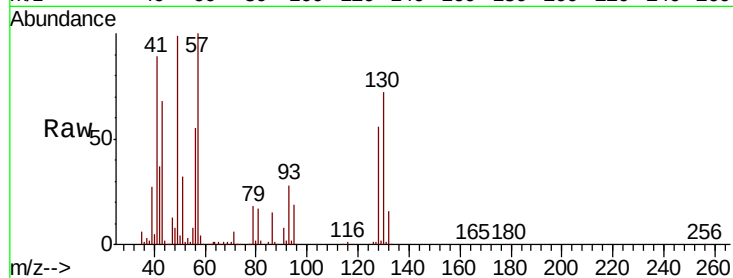
#26  
Hexane  
Concen: 3.085 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.00 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
HSG4DL

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 57      | 100  |       | 619958 |       |       |
| 41      | 93.0 | 70.5  | 105.7  |       |       |
| 43      | 71.8 | 165.8 | 248.8# |       |       |
| 56      | 54.4 | 42.2  | 63.4   |       |       |

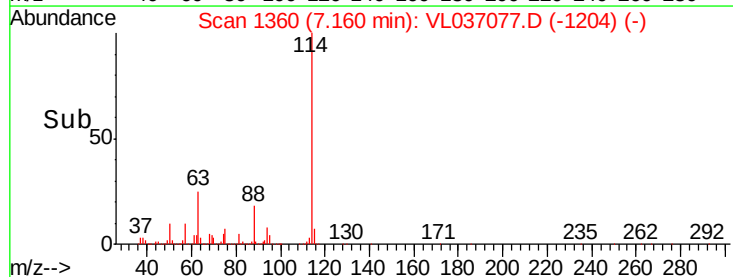
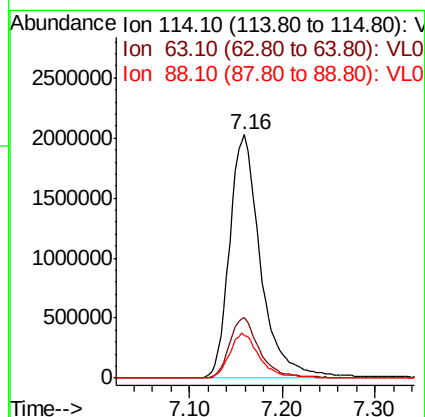
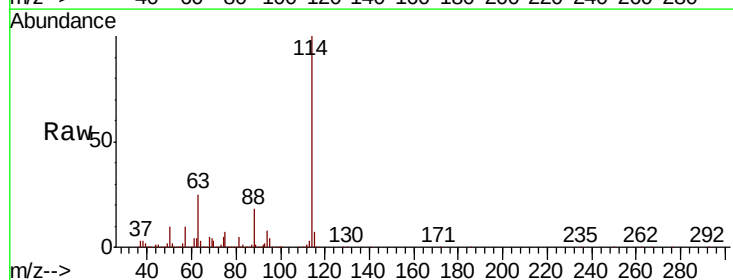
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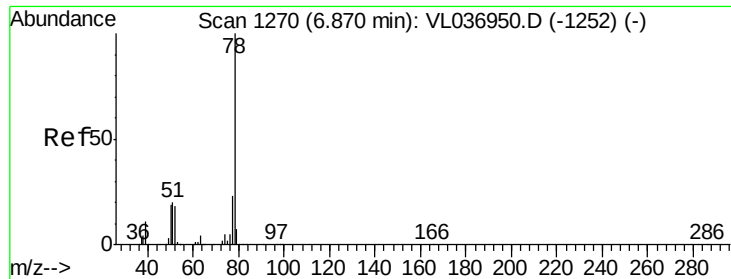
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.16 min Scan# 1360  
Delta R.T. 0.00 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 114     | 100  |       | 4710256 |       |       |
| 63      | 24.4 | 19.6  | 29.4    |       |       |
| 88      | 18.3 | 14.6  | 21.8    |       |       |





#36

Benzene

Concen: 0.115 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA\_L

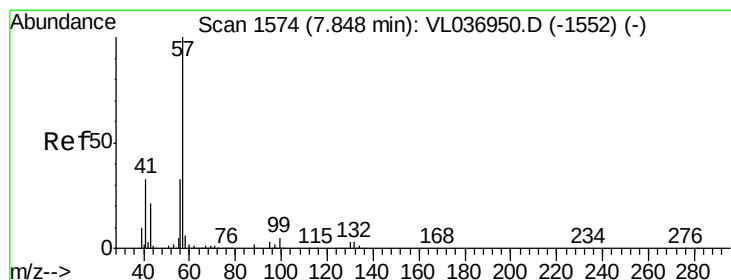
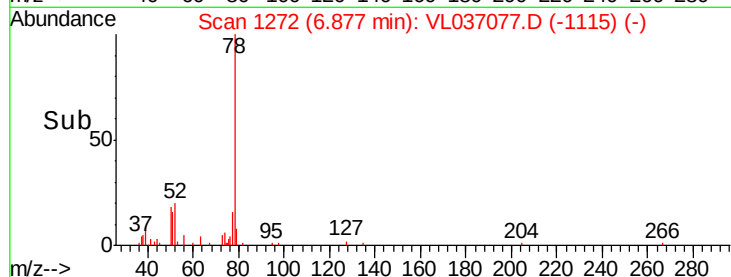
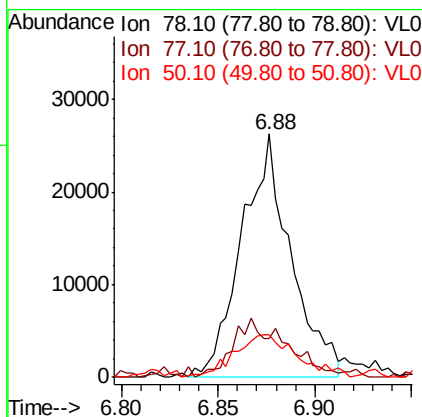
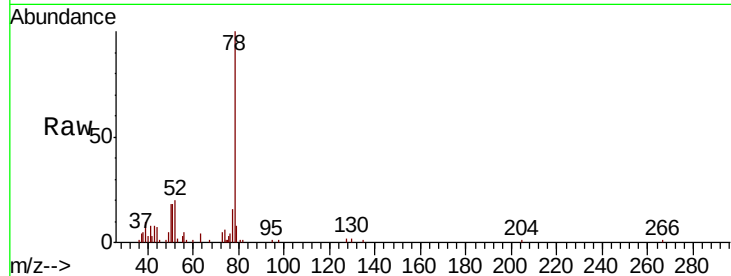
ClientSampleId :

HSG4DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 78    | Resp: | 46518 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 14.3  | 18.6  | 28.0# |
| 50       | 17.2  | 15.0  | 22.4  |

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#44

2,2,4-Trimethylpentane

Concen: 0.095 ppbv

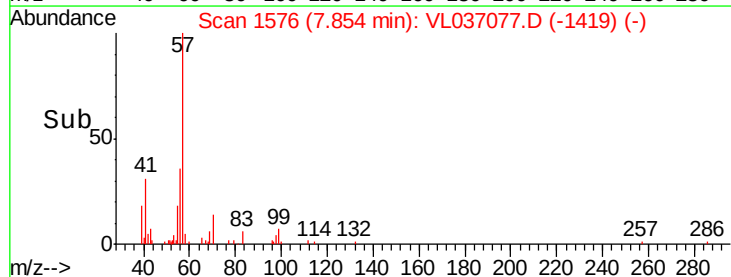
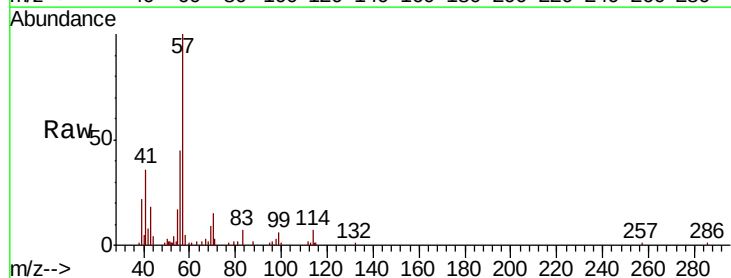
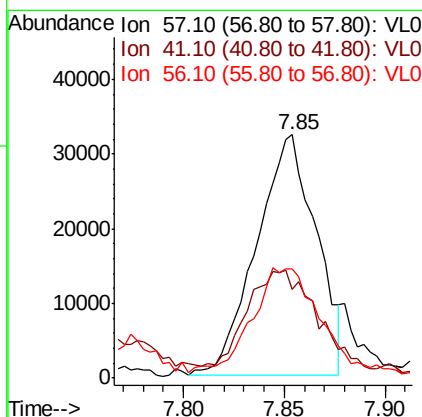
RT: 7.85 min Scan# 1576

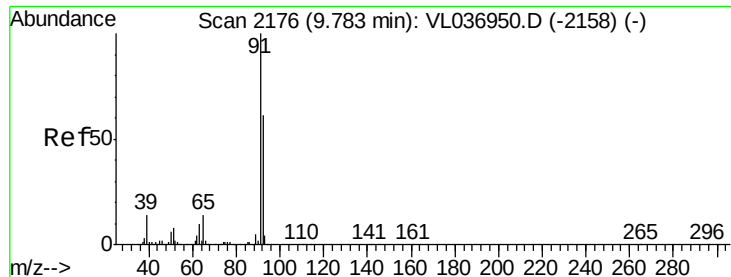
Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 66262 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 56.5  | 27.0  | 40.4# |
| 56       | 54.4  | 25.4  | 38.2# |





#53

Toluene

Concen: 0.522 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA\_L

ClientSampleId :

HSG4DL

Tot Ion: 91 Resp: 252069

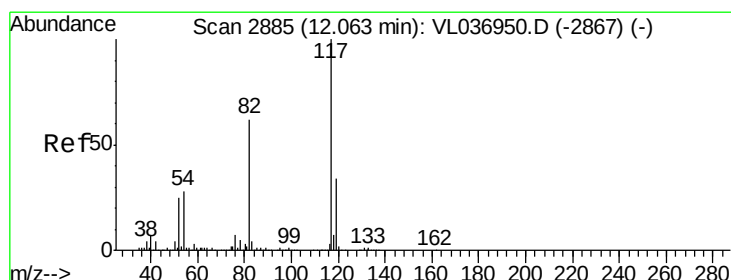
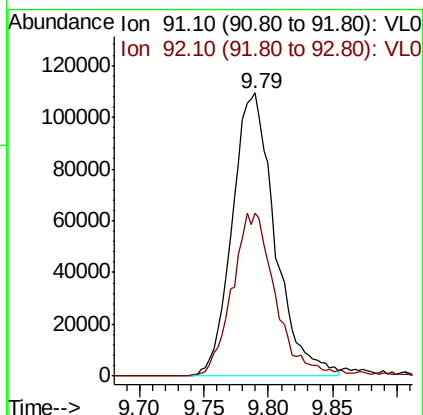
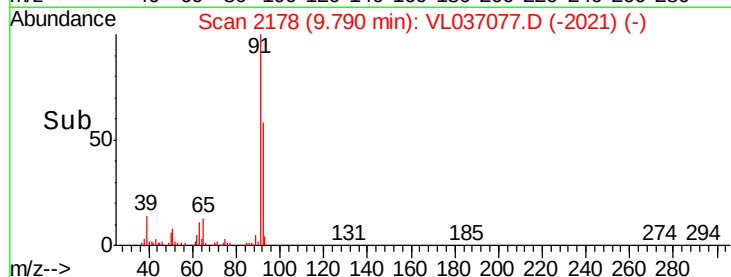
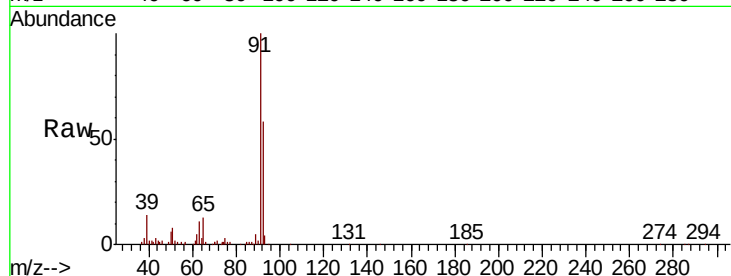
Ion Ratio Lower Upper

91 100

92 59.1 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

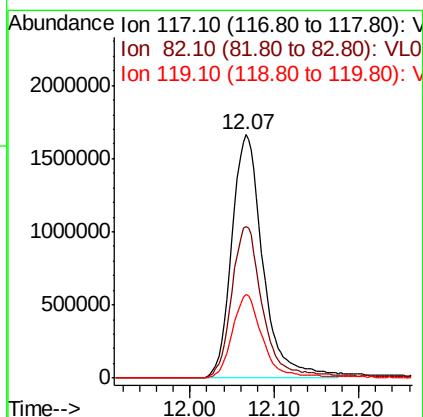
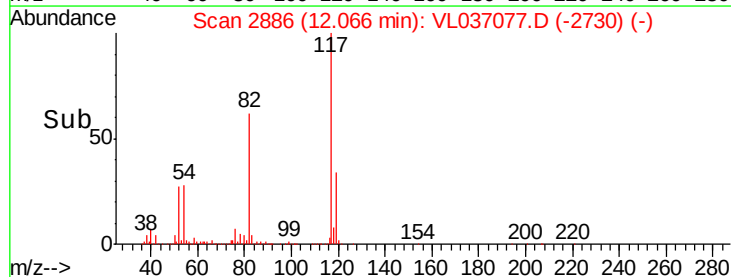
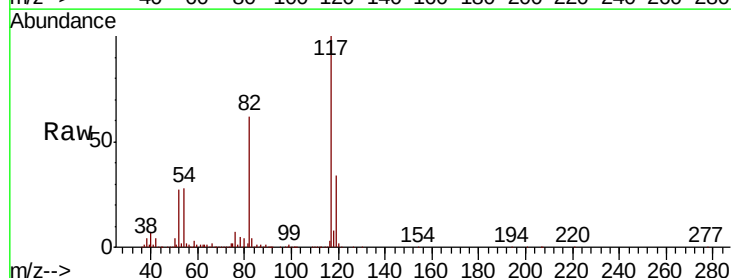
Tgt Ion: 117 Resp: 4297004

Ion Ratio Lower Upper

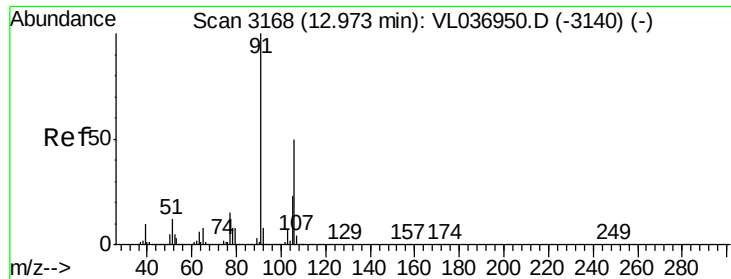
117 100

82 63.4 52.6 79.0

119 34.5 46.6 70.0#







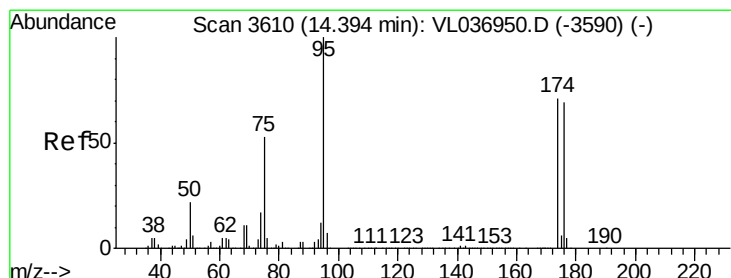
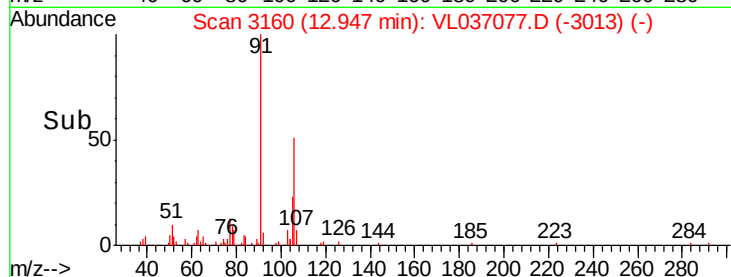
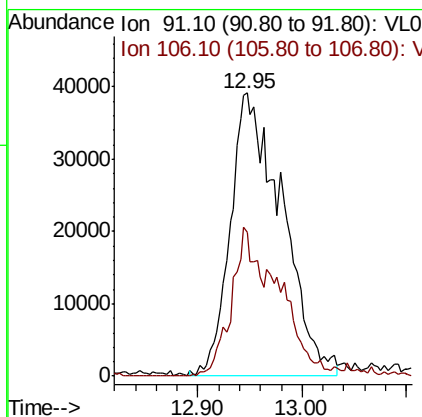
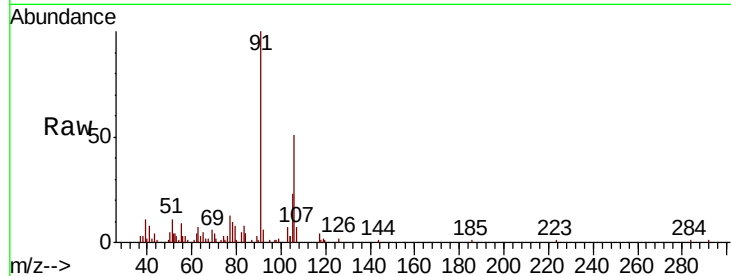
#59  
m/p-Xylene  
Concen: 0.268 ppbv m  
RT: 12.95 min Scan# 3160  
Delta R.T. -0.03 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
HSG4DL

Tot Ion: 91 Resp: 134566  
Ion Ratio Lower Upper  
91 100  
106 0.0 37.4 56.2#

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.773 ppbv  
RT: 14.40 min Scan# 3611  
Delta R.T. 0.00 min  
Lab File: VL037077.D  
Acq: 1 Jun 2021 19:36

Tgt Ion: 95 Resp: 3154881  
Ion Ratio Lower Upper  
95 100  
174 76.0 58.4 87.6  
175 5.4 4.4 6.6

