

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
 Data File : VL036982.D  
 Acq On : 18 May 2021 23:30  
 Operator : SY/AP  
 Sample : M2430-04DL 20X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

Manual Integrations  
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 5/20/2021 5:56:17 PM

Quant Time: May 20 16:27:57 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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   | 1166016  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3466174  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3227346  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2495155  | 10.29    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.90% |

| Target Compounds       | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene             | 3.01  | 41   | 42817m   | 0.560  | ppbv   |        |
| 13) Ethanol            | 3.60  | 45   | 135209m  | 13.248 | ppbv   |        |
| 15) Acetone            | 3.84  | 43   | 988999   | 8.281  | ppbv   | 98     |
| 19) Isopropyl Alcohol  | 3.97  | 45   | 264932m  | 4.127  | ppbv   |        |
| 20) Methylene Chloride | 4.33  | 84   | 31950m   | 0.499  | ppbv   |        |
| 26) Hexane             | 5.66  | 57   | 69475m   | 0.474  | ppbv   |        |
| 34) 2-Butanone         | 5.24  | 43   | 59699m   | 0.473  | ppbv   |        |
| 36) Benzene            | 6.87  | 78   | 41968    | 0.141  | ppbv # | 93     |
| 38) Trichloroethene    | 7.81  | 130  | 78559    | 0.615  | ppbv   | 92     |
| 52) Tetrachloroethene  | 11.20 | 164  | 1090342  | 9.184  | ppbv   | 97     |
| 53) Toluene            | 9.78  | 91   | 43920m   | 0.124  | ppbv   |        |
| 59) m/p-Xylene         | 12.94 | 91   | 49102m   | 0.130  | ppbv   |        |

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

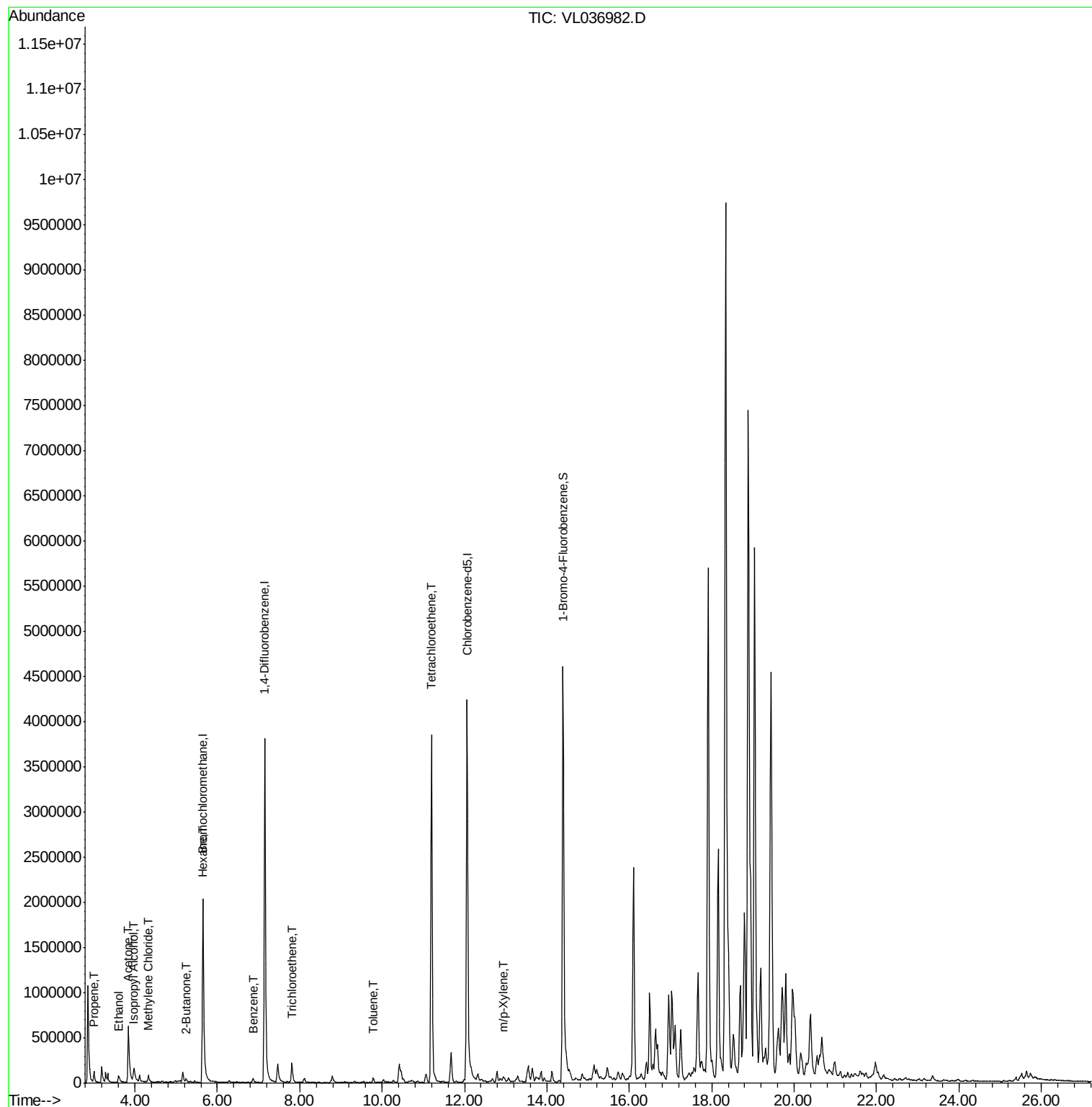
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\  
Data File : VL036982.D  
Acq On : 18 May 2021 23:30  
Operator : SY/AP  
Sample : M2430-04DL 20X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

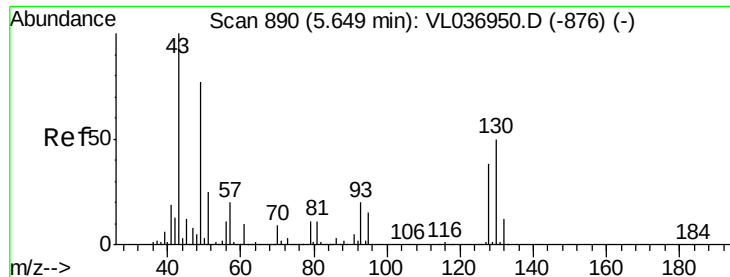
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

Manual Integrations  
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Quant Time: May 20 16:27:57 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue 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: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

Tot Ion: 49 Resp: 1166016

Ion Ratio Lower Upper

49 100

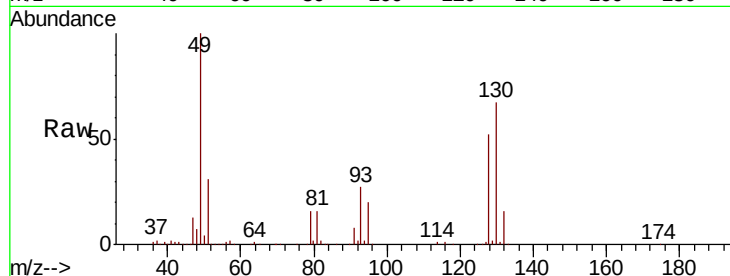
128 55.6 26.9 80.7

130 71.6 33.8 101.4

Manual Integrations  
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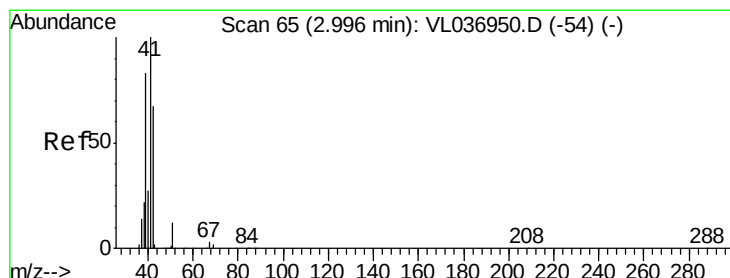
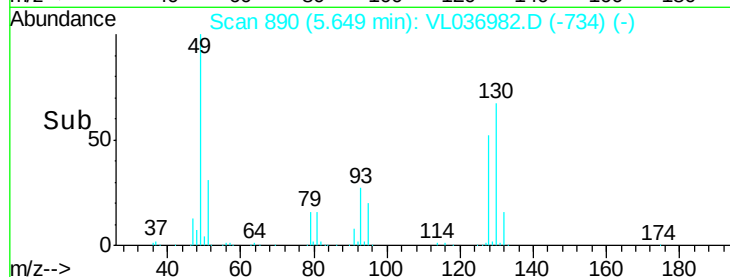
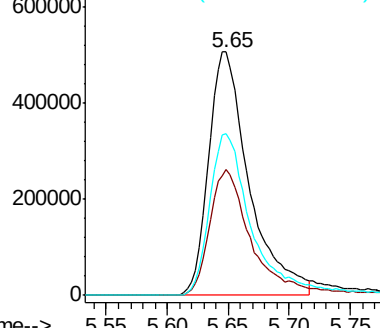
5/20/2021 5:56:17 PM



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: 0.560 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036982.D

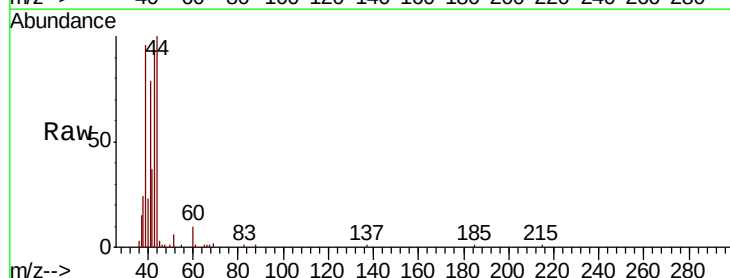
Acq: 18 May 2021 23:30

Tgt Ion: 41 Resp: 42817

Ion Ratio Lower Upper

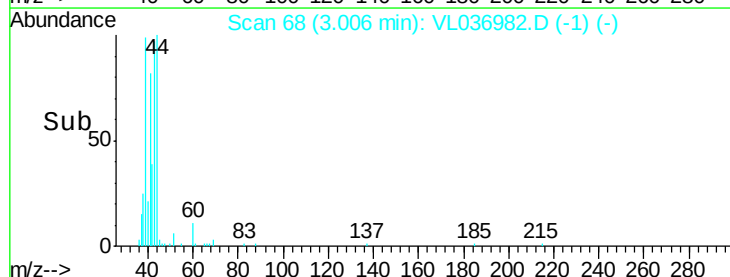
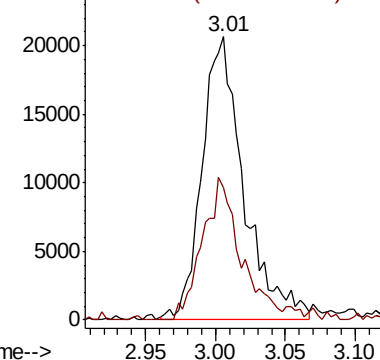
41 100

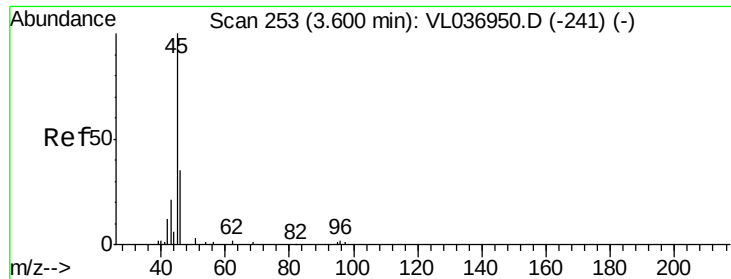
42 49.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 13.248 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA\_L

ClientSampled :

SV2DL

Tot Ion: 45 Resp: 135209

Ion Ratio Lower Upper

45 100

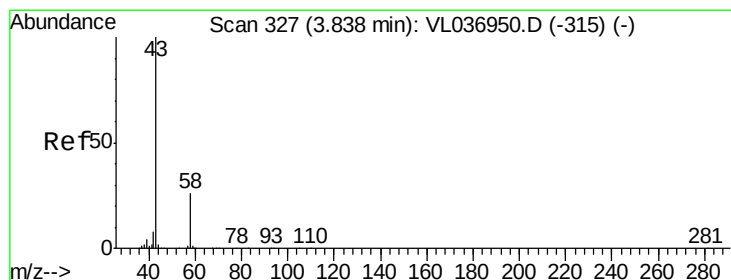
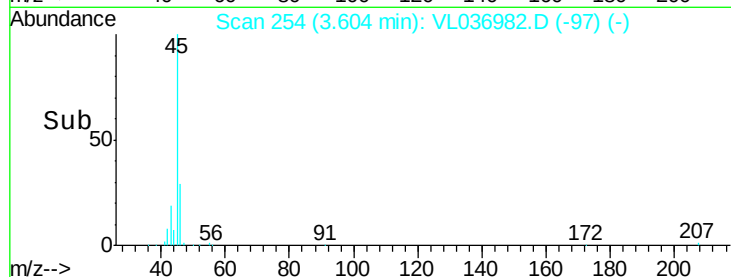
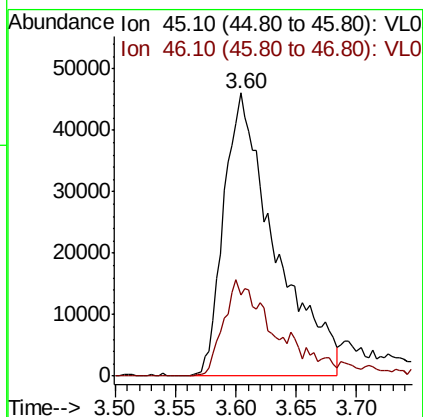
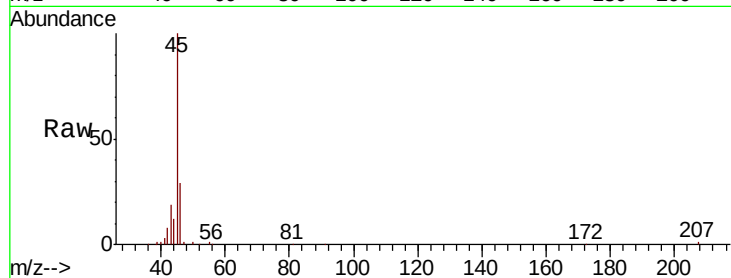
46 38.7 16.3 65.3

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#15

Acetone

Concen: 8.281 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL036982.D

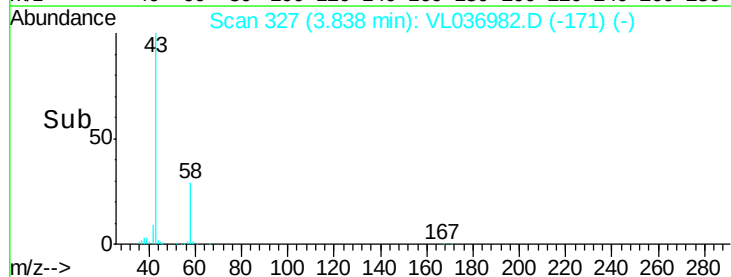
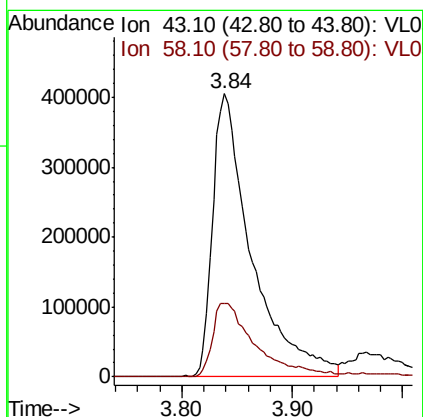
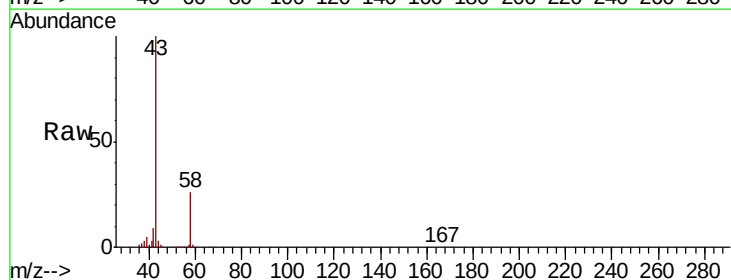
Acq: 18 May 2021 23:30

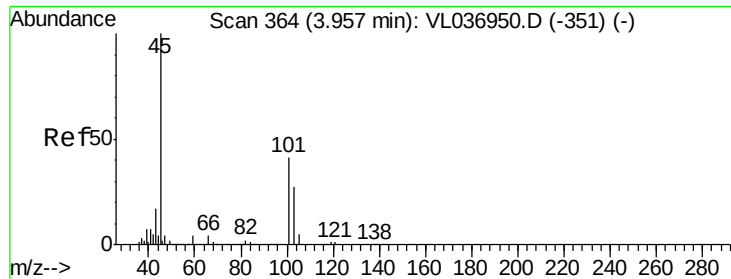
Tgt Ion: 43 Resp: 988999

Ion Ratio Lower Upper

43 100

58 29.2 24.0 36.0





#19

Isopropyl Alcohol

Concen: 4.127 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

Tot Ion: 45 Resp: 264932

Ion Ratio Lower Upper

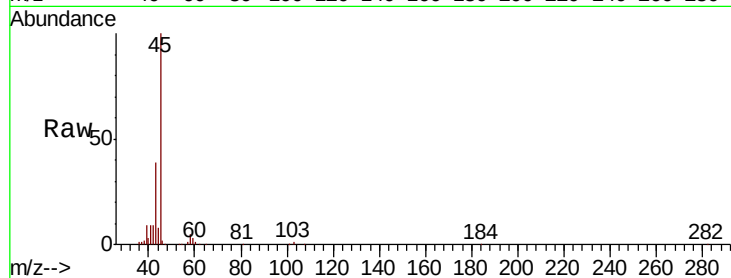
45 100

58 110.2 37.2 55.8#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

120000

100000

80000

60000

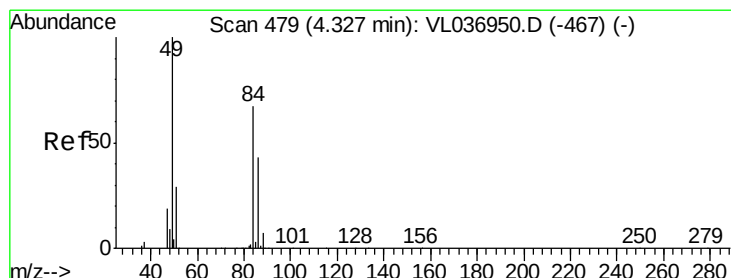
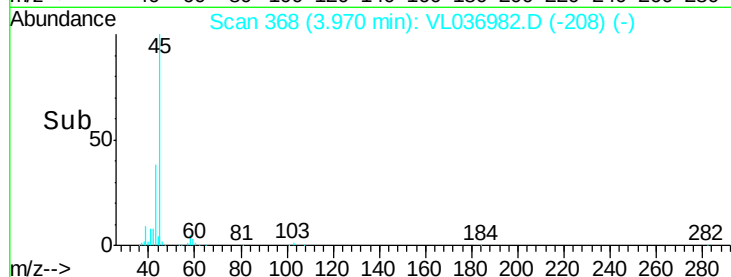
40000

20000

0

3.90 4.00 4.10

Time-->



#20

Methylene Chloride

Concen: 0.499 ppbv m

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Tgt Ion: 84 Resp: 31950

Ion Ratio Lower Upper

84 100

49 154.7 119.8 179.6

51 42.8 35.1 52.7

86 68.3 50.9 76.3

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

30000

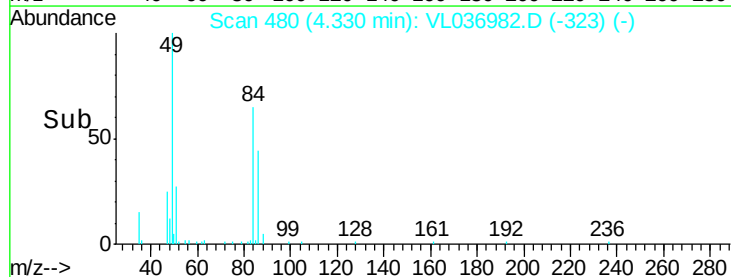
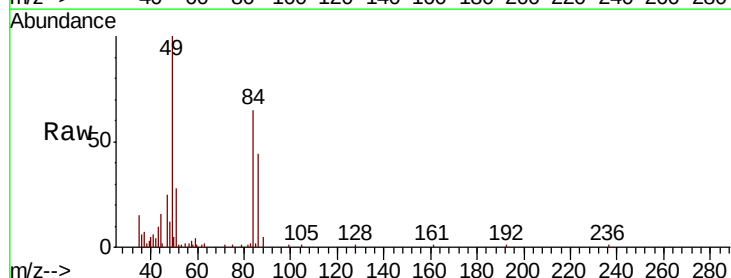
20000

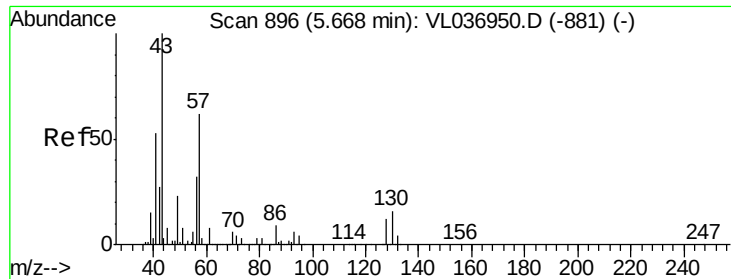
10000

0

4.25 4.30 4.35 4.40

Time-->





#26

Hexane

Concen: 0.474 ppbv m

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA\_L

ClientSampled :

SV2DL

Tot Ion: 57 Resp: 69475

Ion Ratio Lower Upper

57 100

41 94.3 70.5 105.7

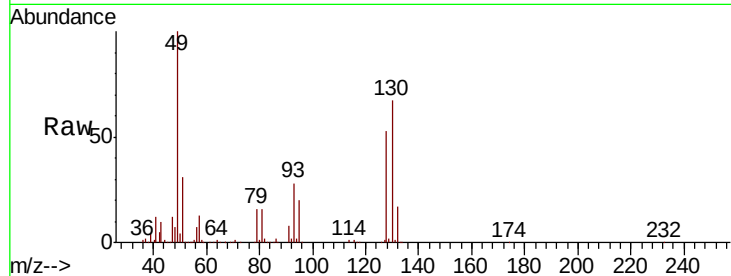
43 73.6 165.8 248.8#

56 52.4 42.2 63.4

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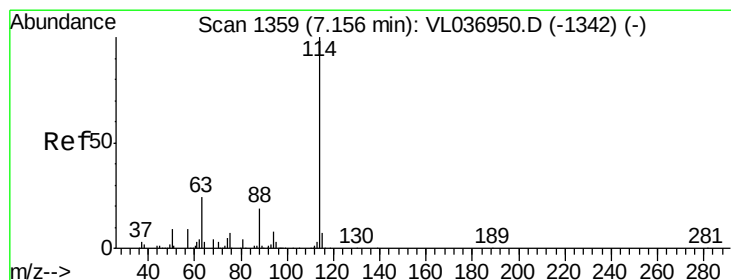
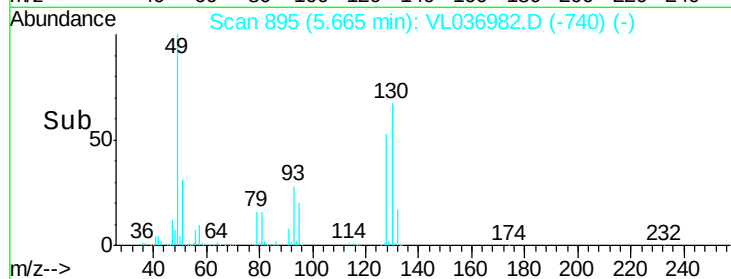
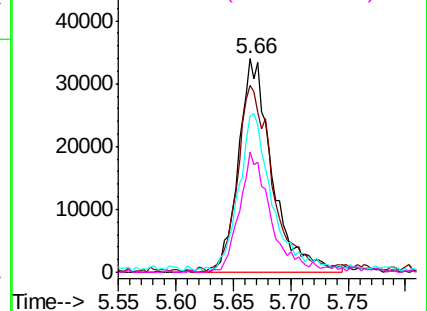


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

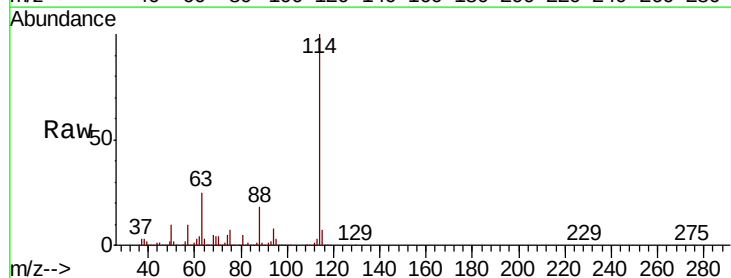
Tgt Ion:114 Resp: 3466174

Ion Ratio Lower Upper

114 100

63 24.7 19.6 29.4

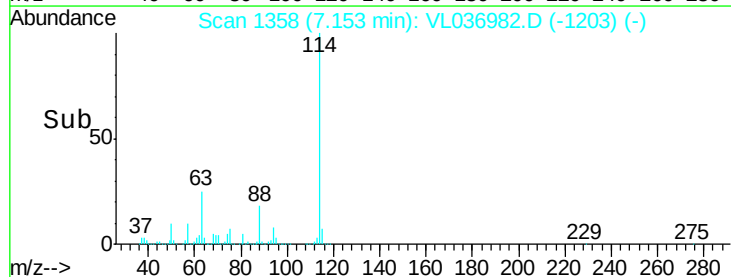
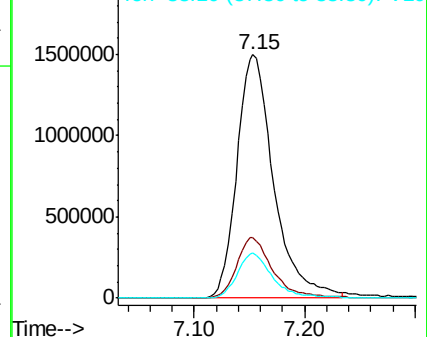
88 18.0 14.6 21.8

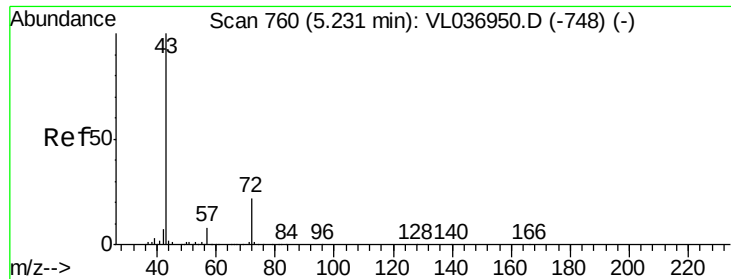


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





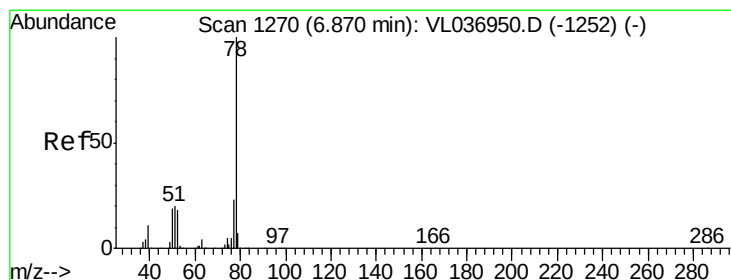
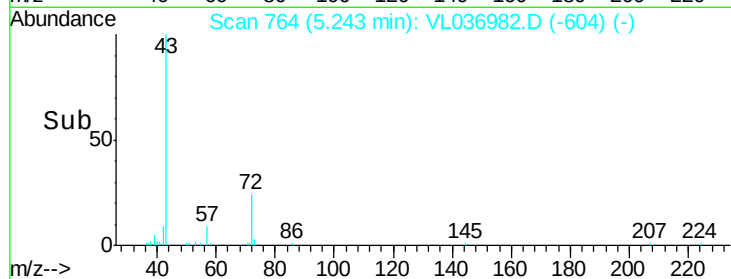
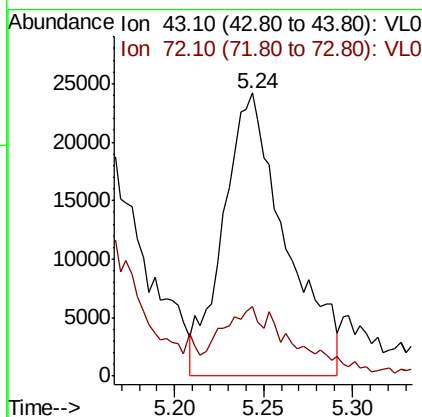
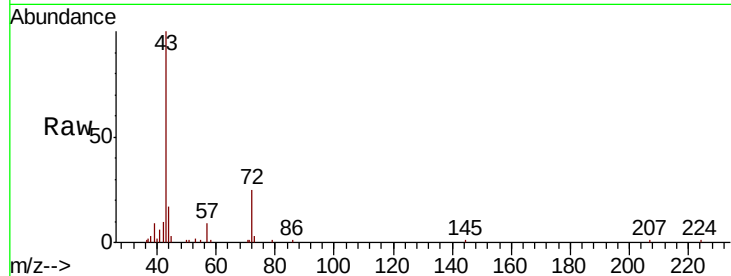
#34  
2-Butanone  
Concen: 0.473 ppbv m  
RT: 5.24 min Scan# 764  
Delta R.T. 0.01 min  
Lab File: VL036982.D  
Acq: 18 May 2021 23:30

Instrument :  
MSVOA\_L  
ClientSampled :  
SV2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 30.3  | 19.0  | 28.4# |

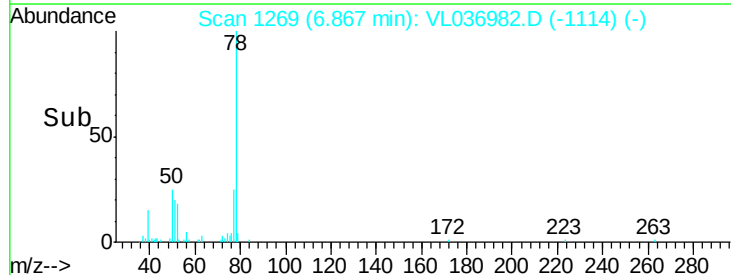
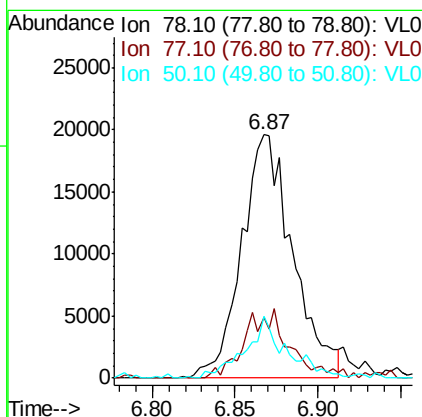
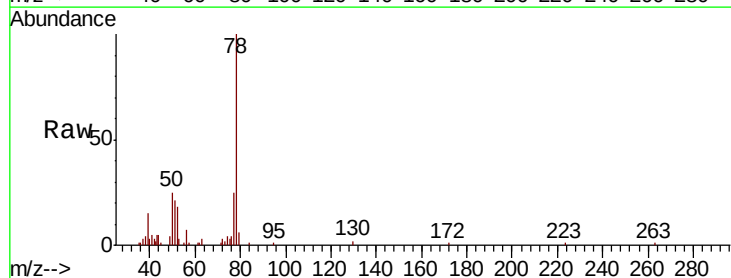
Manual Integrations  
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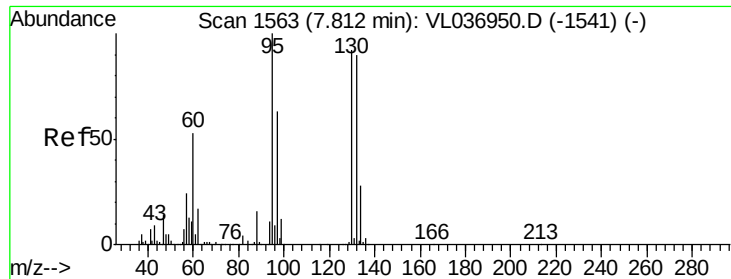
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#36  
Benzene  
Concen: 0.141 ppbv  
RT: 6.87 min Scan# 1269  
Delta R.T. -0.00 min  
Lab File: VL036982.D  
Acq: 18 May 2021 23:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.9  | 18.6  | 28.0  |
| 50      | 23.5  | 15.0  | 22.4# |





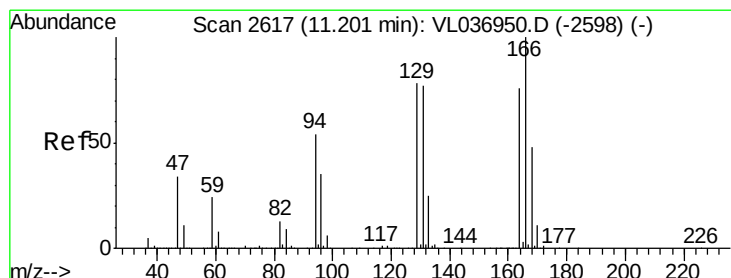
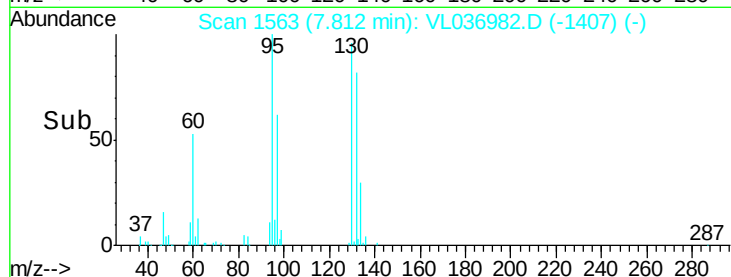
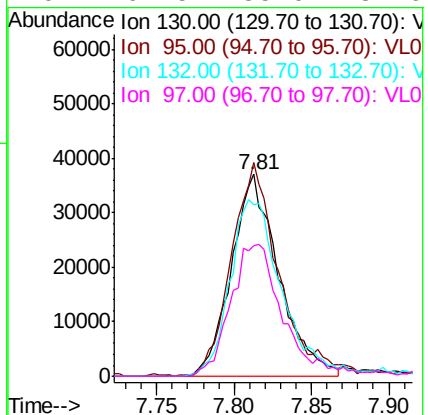
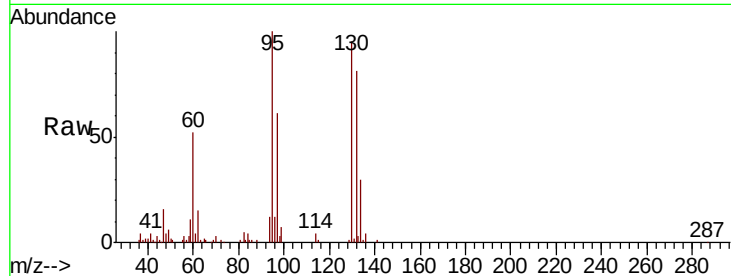
#38  
 Trichloroethene  
 Concen: 0.615 ppbv  
 RT: 7.81 min Scan# 1563  
 Delta R.T. 0.00 min  
 Lab File: VL036982.D  
 Acq: 18 May 2021 23:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 105.0 | 86.9  | 130.3 |
| 132     | 84.4  | 78.4  | 117.6 |
| 97      | 64.5  | 55.0  | 82.6  |

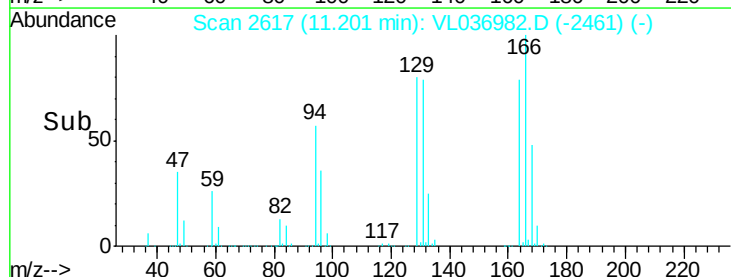
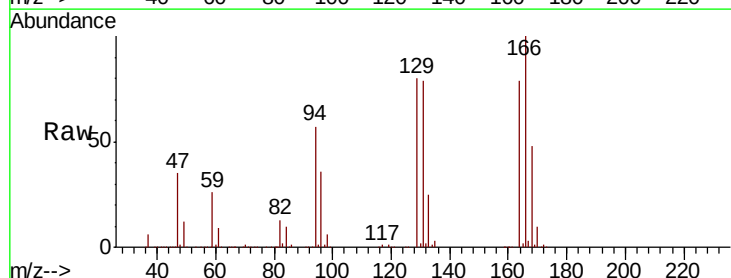
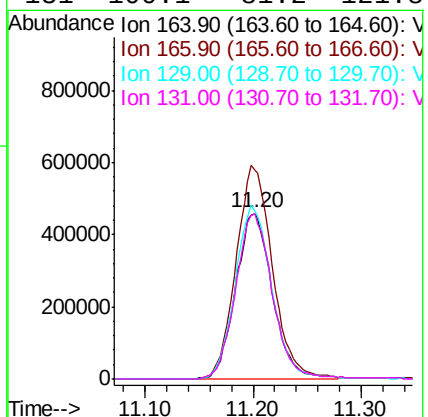
Manual Integrations  
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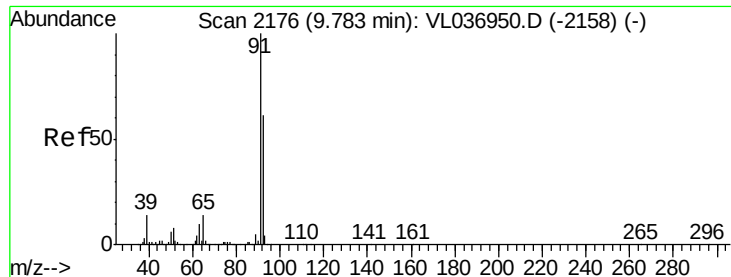


#52  
 Tetrachloroethene  
 Concen: 9.184 ppbv  
 RT: 11.20 min Scan# 2617  
 Delta R.T. 0.00 min  
 Lab File: VL036982.D  
 Acq: 18 May 2021 23:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.1 | 105.5 | 158.3 |
| 129     | 101.1 | 81.8  | 122.8 |
| 131     | 100.1 | 81.2  | 121.8 |







#53

Toluene

Concen: 0.124 ppbv m

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

Instrument :

MSVOA\_L

ClientSampled :

SV2DL

Tot Ion: 91 Resp: 43920

Ion Ratio Lower Upper

91 100

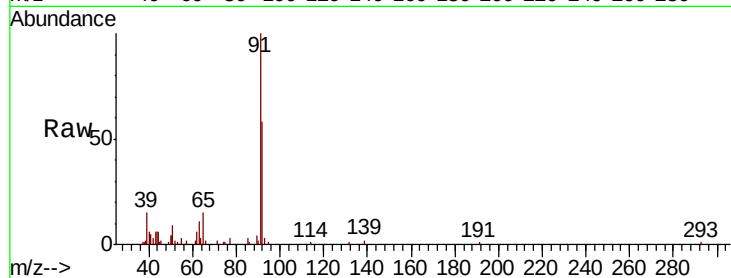
92 61.7 49.5 74.3

Manual Integrations

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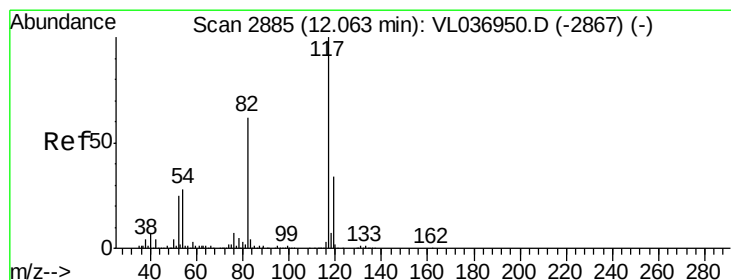
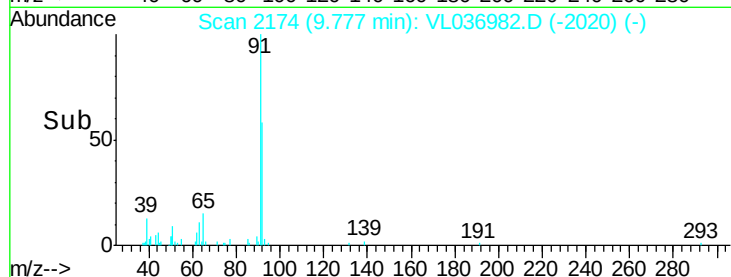
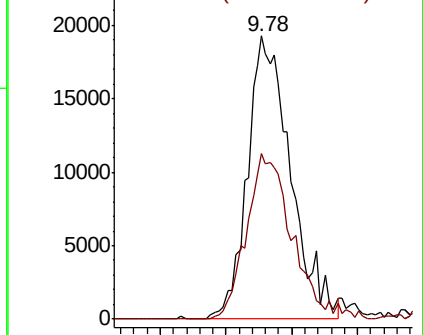
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL036982.D

Acq: 18 May 2021 23:30

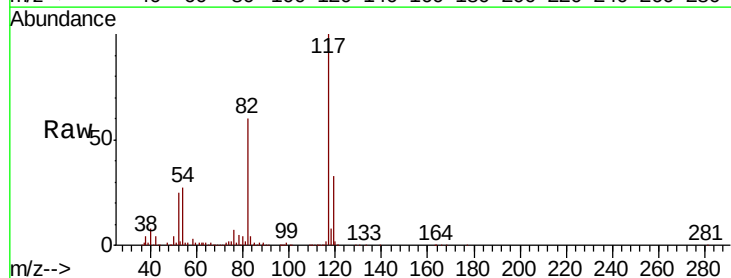
Tgt Ion: 117 Resp: 3227346

Ion Ratio Lower Upper

117 100

82 63.6 52.6 79.0

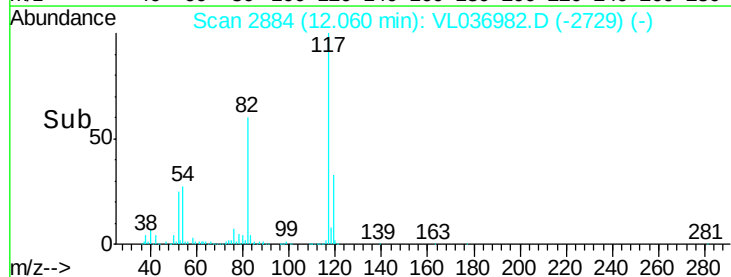
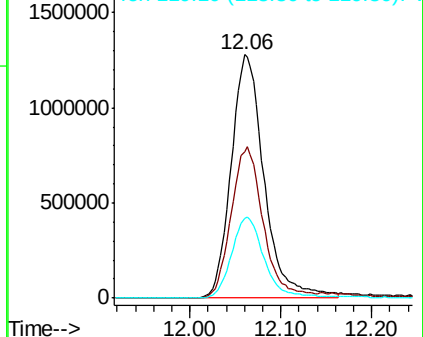
119 33.8 46.6 70.0#

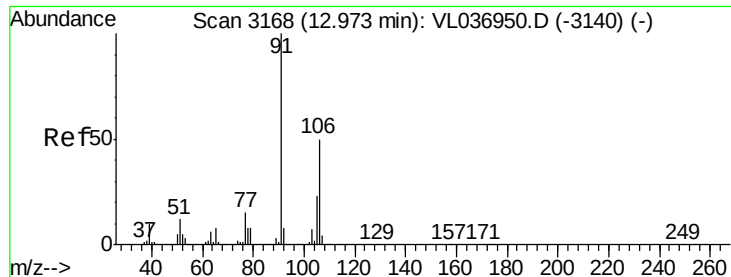


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





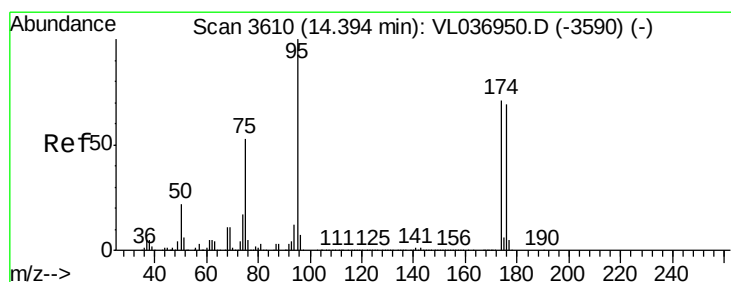
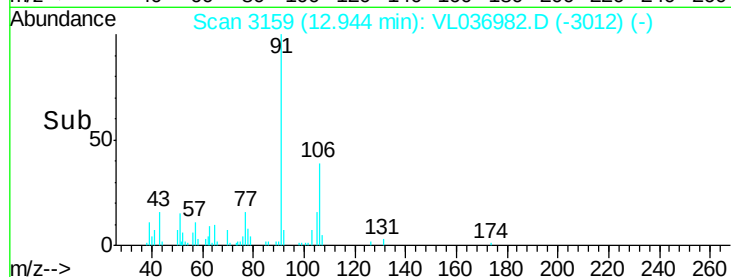
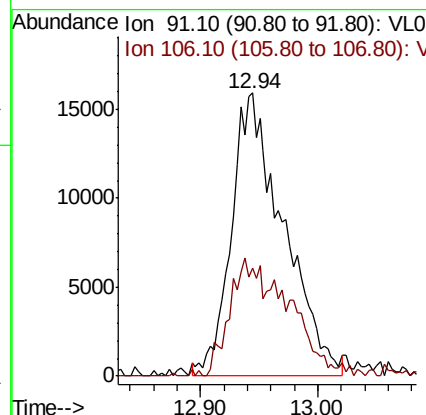
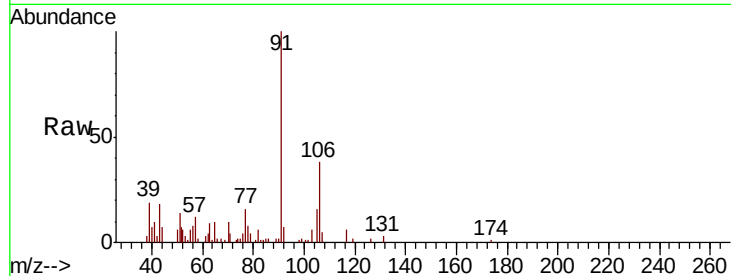
#59  
m/p-Xylene  
Concen: 0.130 ppbv m  
RT: 12.94 min Scan# 3159  
Delta R.T. -0.03 min  
Lab File: VL036982.D  
Acq: 18 May 2021 23:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

Tot Ion: 91 Resp: 49102  
Ion Ratio Lower Upper  
91 100  
106 0.0 37.4 56.2#

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 5:56:17 PM



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.292 ppbv  
RT: 14.39 min Scan# 3609  
Delta R.T. -0.00 min  
Lab File: VL036982.D  
Acq: 18 May 2021 23:30

Tgt Ion: 95 Resp: 2495155  
Ion Ratio Lower Upper  
95 100  
174 77.8 58.4 87.6  
175 5.7 4.4 6.6

