

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\  
 Data File : VL036083.D  
 Acq On : 8 Dec 2020 3:06  
 Operator : SY/AP  
 Sample : L4948-03  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-6B

Quant Time: Dec 08 08:41:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
 QLast Update : Mon Dec 07 16:56:49 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1196625  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2567601  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2313295  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 1949446  | 10.61    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.10% |

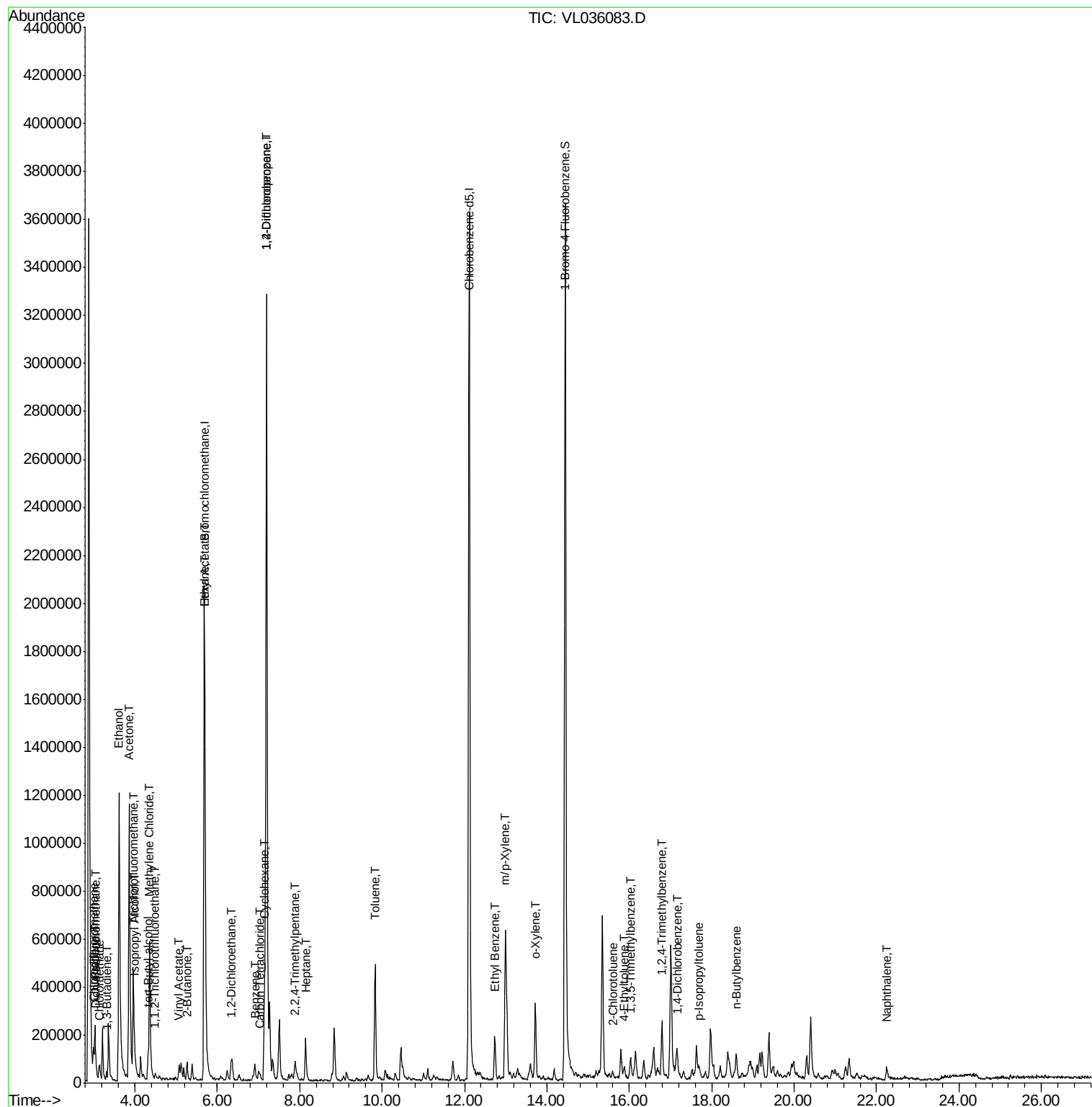
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05  | 85   | 39924    | 0.286   | ppbv   | 96     |
| 3) Chlorodifluoromethane       | 2.99  | 51   | 159567   | 1.169   | ppbv   | 96     |
| 4) Chloromethane               | 3.14  | 50   | 37895    | 0.565   | ppbv   | 89     |
| 9) Propene                     | 3.03  | 41   | 53851    | 0.787   | ppbv # | 81     |
| 10) Heptane                    | 8.14  | 43   | 79398    | 0.455   | ppbv   | 91     |
| 11) Trichlorofluoromethane     | 3.96  | 101  | 303323   | 1.850   | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101  | 3593     | 0.032   | ppbv # | 12     |
| 13) Ethanol                    | 3.61  | 45   | 1649824  | 174.985 | ppbv   | 85     |
| 15) Acetone                    | 3.86  | 43   | 1550217  | 10.779  | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.33  | 39   | 3641     | 0.050   | ppbv   | 90     |
| 17) tert-Butyl alcohol         | 4.32  | 59   | 52611    | 0.378   | ppbv # | 92     |
| 19) Isopropyl Alcohol          | 3.99  | 45   | 125976   | 1.433   | ppbv # | 100    |
| 20) Methylene Chloride         | 4.35  | 84   | 216675   | 3.677   | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.08  | 43   | 42610    | 0.223   | ppbv # | 40     |
| 25) Ethyl Acetate              | 5.70  | 43   | 231522   | 0.806   | ppbv # | 88     |
| 26) Hexane                     | 5.70  | 57   | 217965   | 1.686   | ppbv # | 51     |
| 30) Cyclohexane                | 7.15  | 84   | 163409   | 1.720   | ppbv # | 81     |
| 34) 2-Butanone                 | 5.27  | 43   | 91311    | 0.536   | ppbv # | 91     |
| 35) Carbon Tetrachloride       | 7.03  | 117  | 5088     | 0.034   | ppbv # | 57     |
| 36) Benzene                    | 6.91  | 78   | 50377    | 0.232   | ppbv # | 90     |
| 37) 1,2-Dichloroethane         | 6.32  | 62   | 3835     | 0.030   | ppbv # | 83     |
| 39) 1,2-Dichloropropane        | 7.19  | 63   | 753230   | 8.765   | ppbv # | 24     |
| 44) 2,2,4-Trimethylpentane     | 7.89  | 57   | 16052    | 0.041   | ppbv # | 41     |
| 53) Toluene                    | 9.83  | 91   | 384726   | 1.575   | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.74 | 91   | 77462    | 0.244   | ppbv   | 99     |
| 59) m/p-Xylene                 | 13.00 | 91   | 688968   | 2.580   | ppbv   | 98     |
| 60) o-Xylene                   | 13.72 | 91   | 248936   | 0.990   | ppbv   | 99     |
| 69) p-Isopropyltoluene         | 17.68 | 119  | 16768    | 0.049   | ppbv # | 50     |
| 70) n-Butylbenzene             | 18.59 | 91   | 16913    | 0.050   | ppbv # | 9      |
| 71) 2-Chlorotoluene            | 15.59 | 91   | 13357    | 0.047   | ppbv # | 56     |
| 72) 4-Ethyltoluene             | 15.87 | 105  | 8702     | 0.032   | ppbv # | 37     |
| 73) 1,3,5-Trimethylbenzene     | 16.03 | 105  | 28350    | 0.109   | ppbv # | 84     |
| 74) 1,2,4-Trimethylbenzene     | 16.79 | 105  | 163654   | 0.626   | ppbv # | 65     |
| 76) 1,4-Dichlorobenzene        | 17.18 | 146  | 6546     | 0.049   | ppbv # | 1      |
| 79) Naphthalene                | 22.24 | 128  | 21968    | 0.165   | ppbv # | 90     |

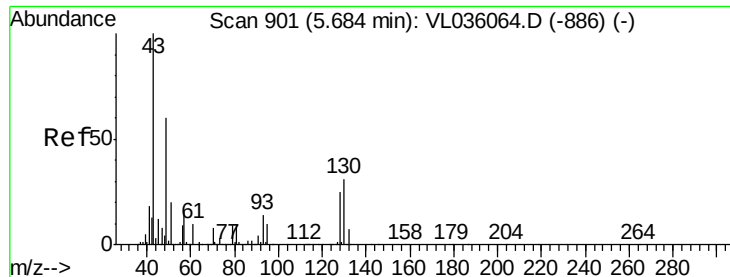
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-6B

Quant Time: Dec 08 08:41:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
QLast Update : Mon Dec 07 16:56:49 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

IA-6B

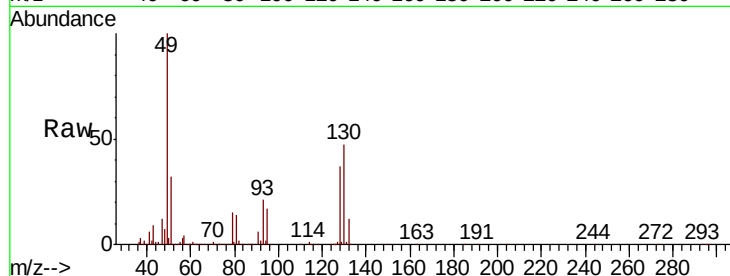
Tot Ion: 49 Resp: 1196625

Ion Ratio Lower Upper

49 100

128 38.6 21.1 63.1

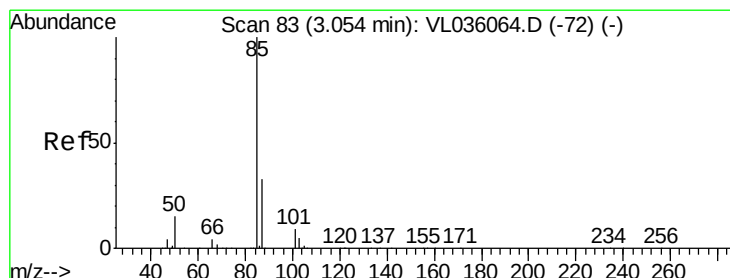
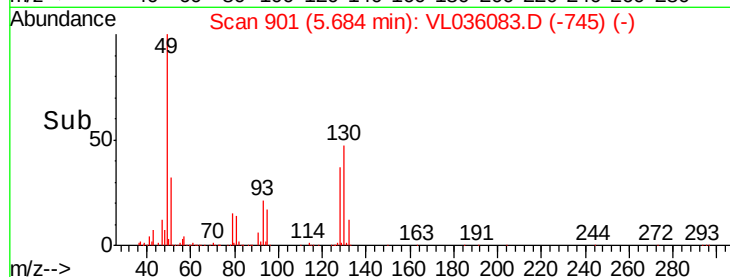
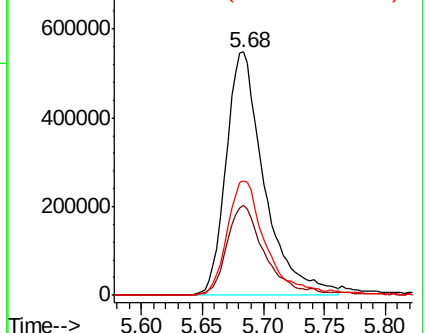
130 48.4 27.1 81.3



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



#2

Dichlorodifluoromethane

Concen: 0.286 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL036083.D

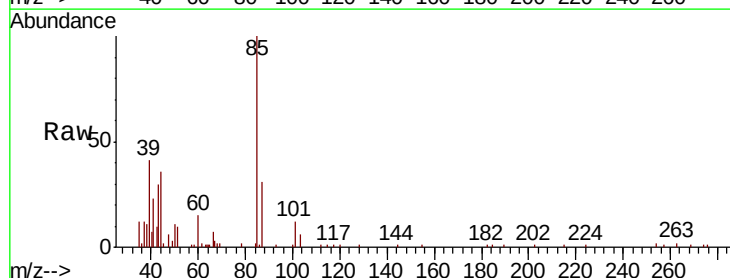
Acq: 8 Dec 2020 3:06

Tgt Ion: 85 Resp: 39924

Ion Ratio Lower Upper

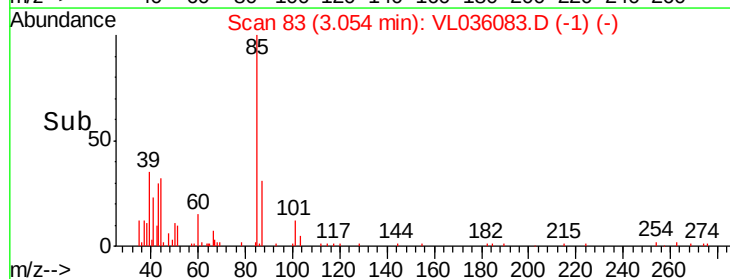
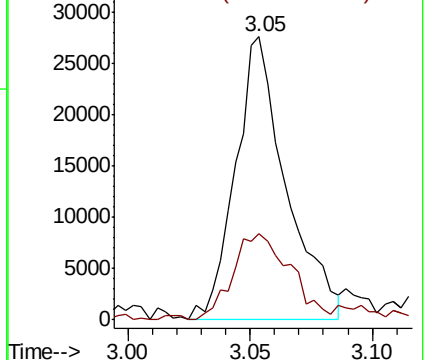
85 100

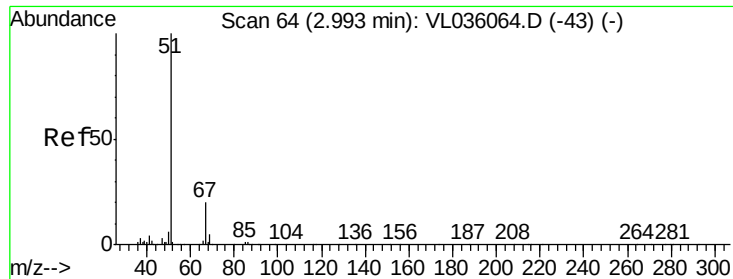
87 30.7 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

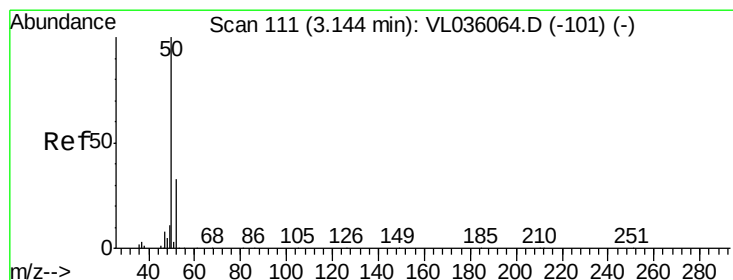
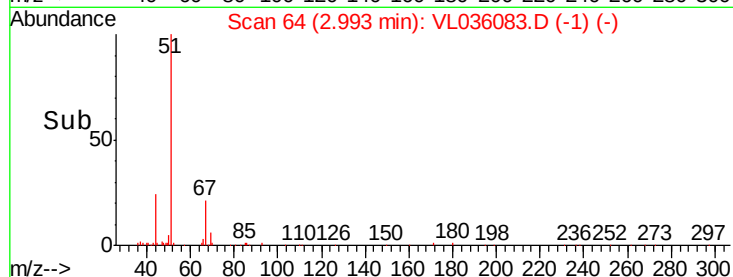
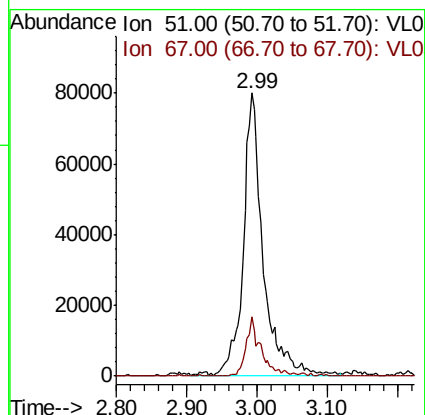
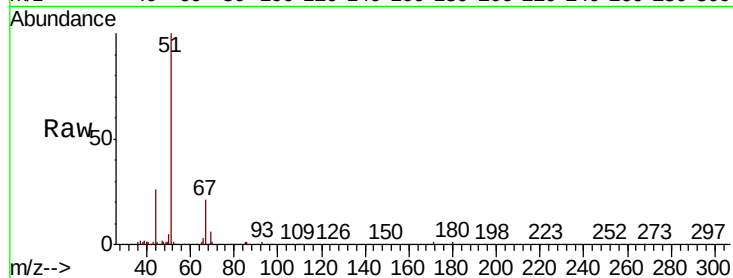




#3  
Chlorodifluoromethane  
Concen: 1.169 ppbv  
RT: 2.99 min Scan# 64  
Delta R.T. 0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

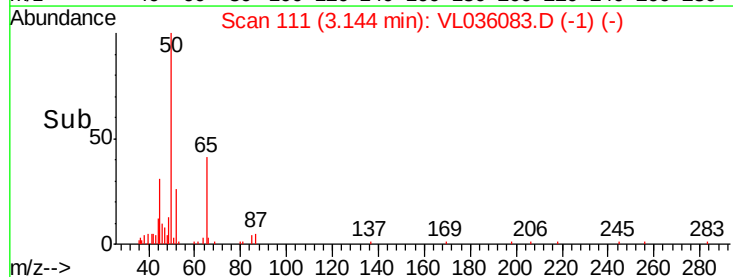
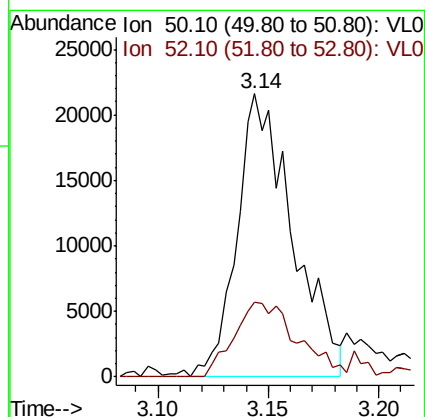
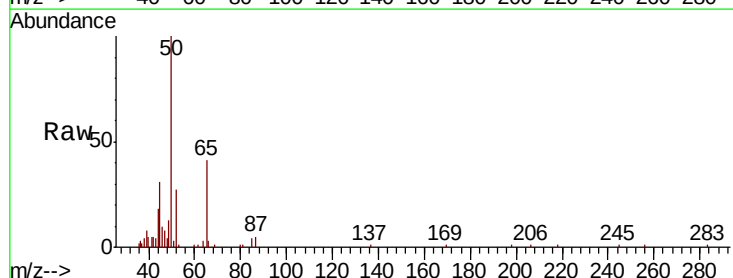
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-6B

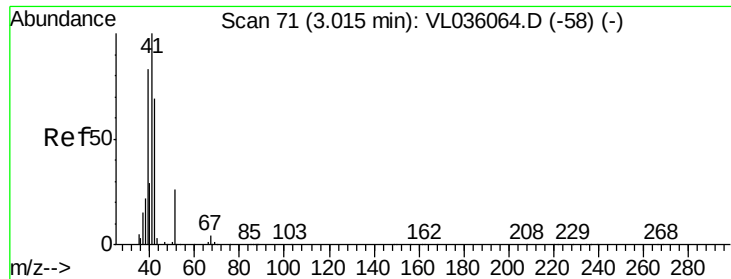
Tot Ion: 51 Resp: 159567  
Ion Ratio Lower Upper  
51 100  
67 16.1 14.3 21.5



#4  
Chloromethane  
Concen: 0.565 ppbv  
RT: 3.14 min Scan# 111  
Delta R.T. 0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

Tgt Ion: 50 Resp: 37895  
Ion Ratio Lower Upper  
50 100  
52 26.6 26.1 39.1





#9

Propene

Concen: 0.787 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampled :

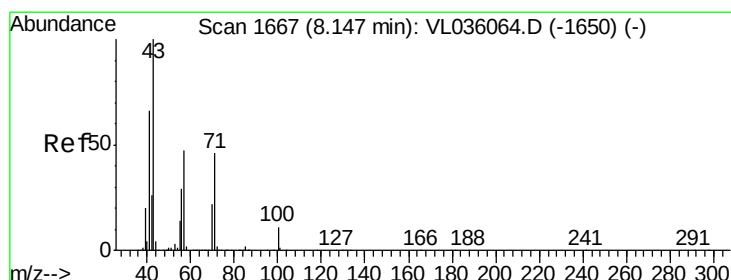
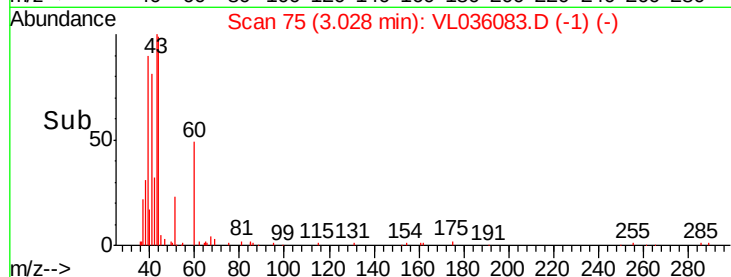
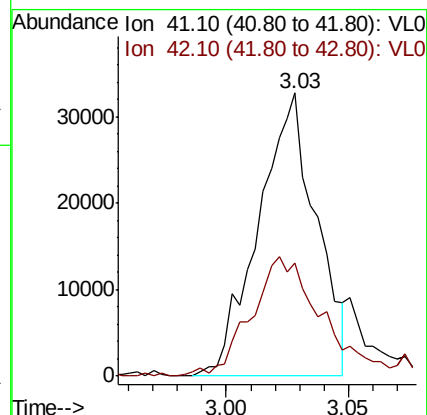
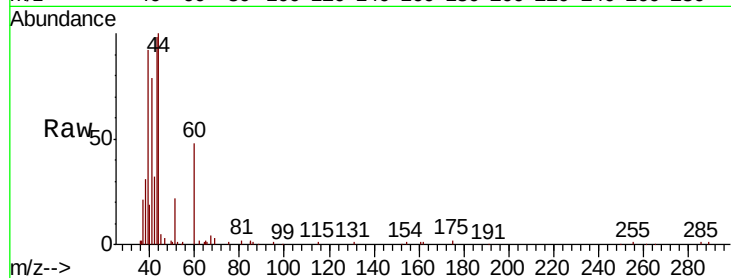
IA-6B

Tot Ion: 41 Resp: 53851

Ion Ratio Lower Upper

41 100

42 55.6 57.0 85.6#



#10

Heptane

Concen: 0.455 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL036083.D

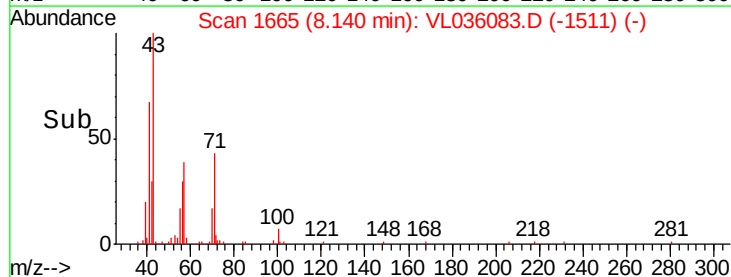
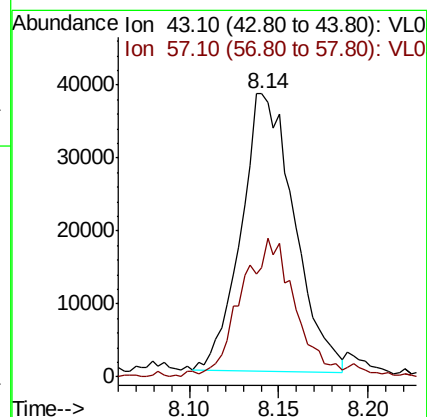
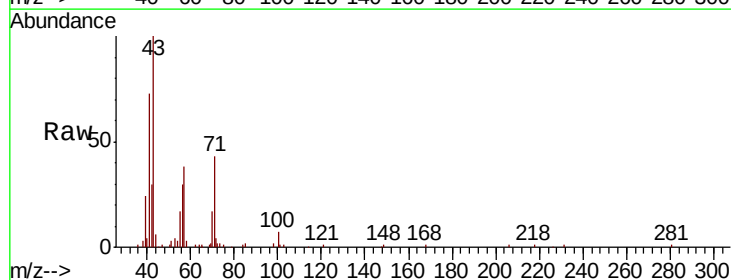
Acq: 8 Dec 2020 3:06

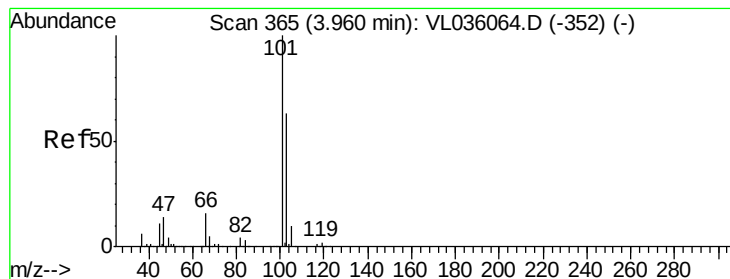
Tgt Ion: 43 Resp: 79398

Ion Ratio Lower Upper

43 100

57 53.2 37.9 56.9





#11

Trichlorofluoromethane

Concen: 1.850 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

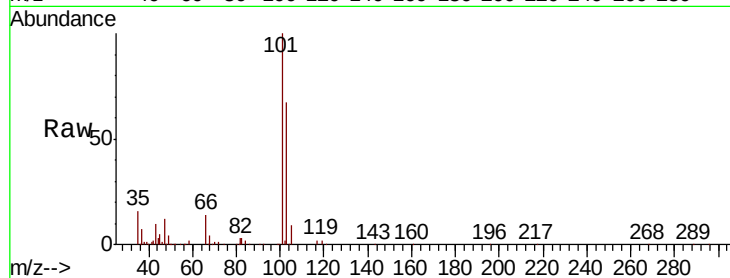
IA-6B

Tot Ion:101 Resp: 303323

Ion Ratio Lower Upper

101 100

103 67.0 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

200000

150000

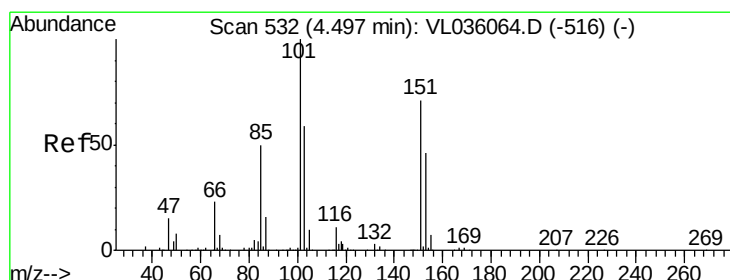
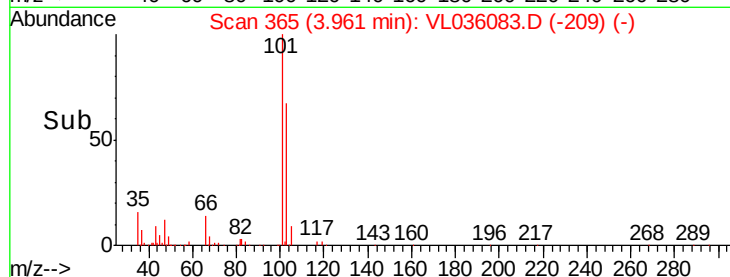
100000

50000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL036083.D

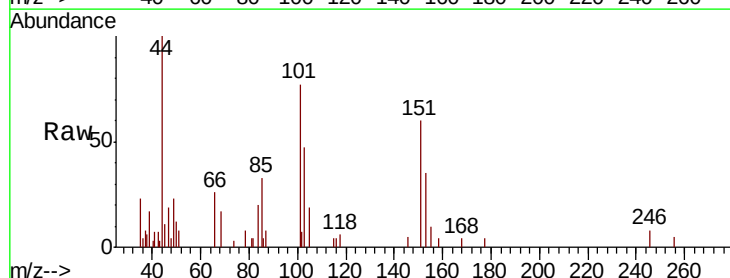
Acq: 8 Dec 2020 3:06

Tgt Ion:101 Resp: 3593

Ion Ratio Lower Upper

101 100

151 0.0 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

5000

4000

3000

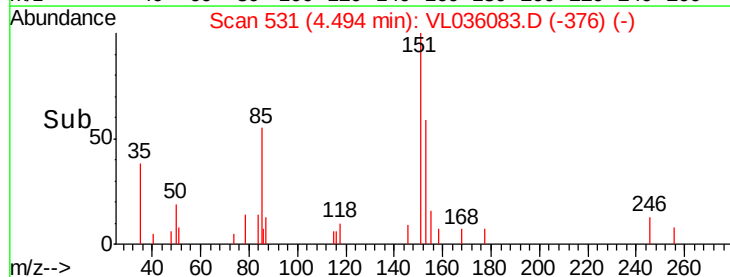
2000

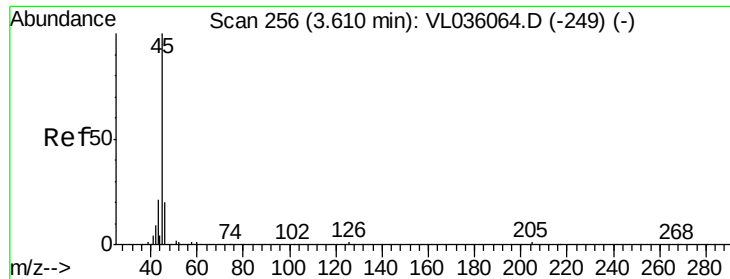
1000

0

4.48 4.49 4.50 4.51

Time-->





#13

Ethanol

Concen: 174.985 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

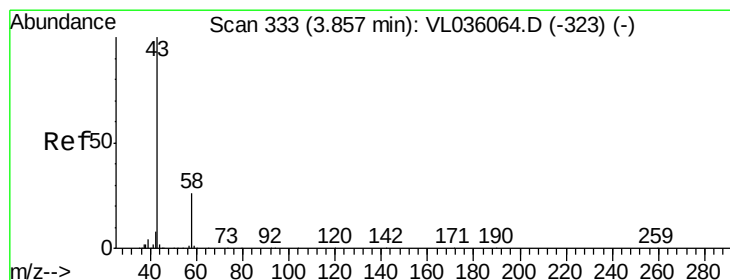
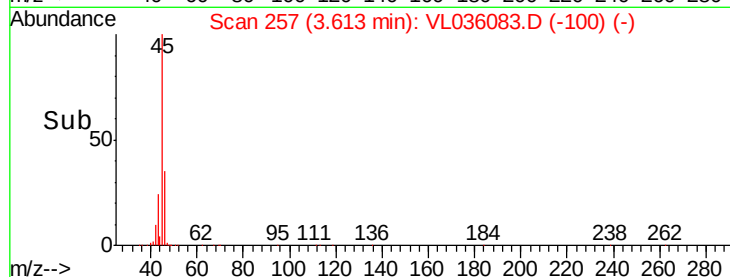
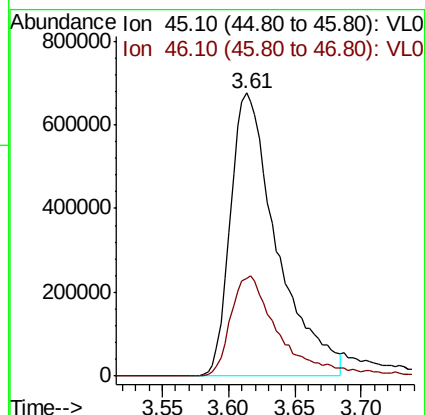
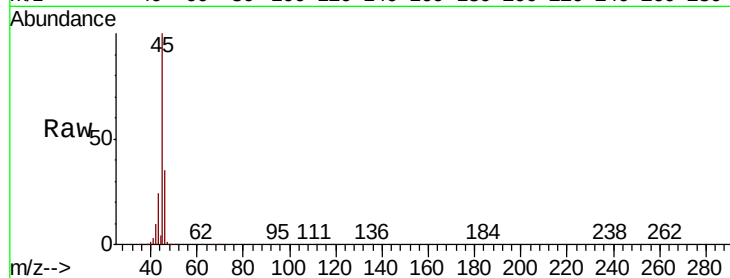
IA-6B

Tot Ion: 45 Resp: 1649824

Ion Ratio Lower Upper

45 100

46 37.2 19.0 75.8



#15

Acetone

Concen: 10.779 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL036083.D

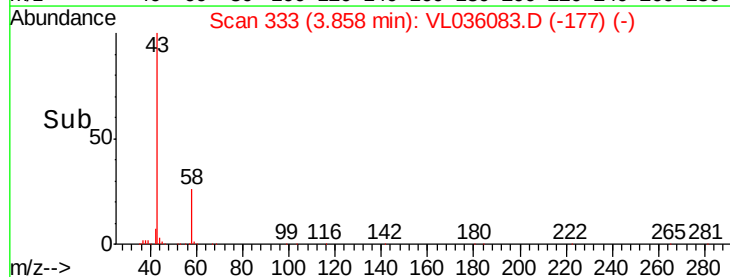
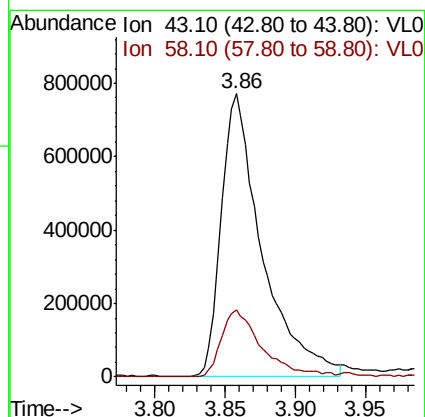
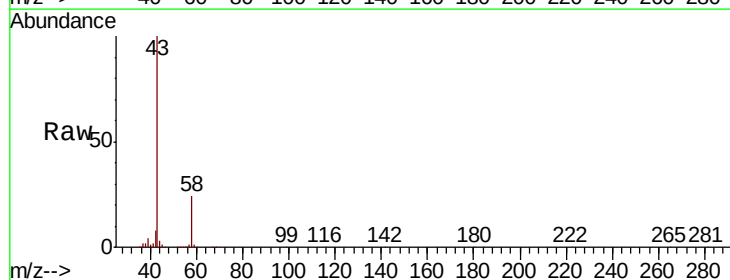
Acq: 8 Dec 2020 3:06

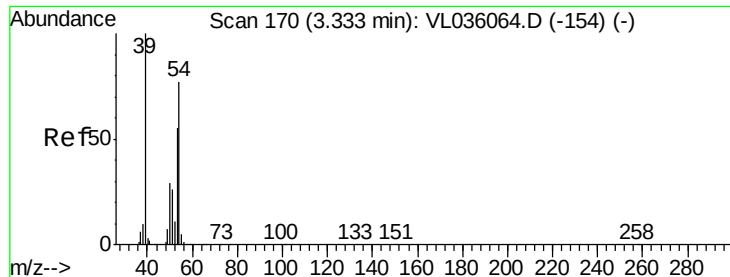
Tgt Ion: 43 Resp: 1550217

Ion Ratio Lower Upper

43 100

58 25.1 20.9 31.3

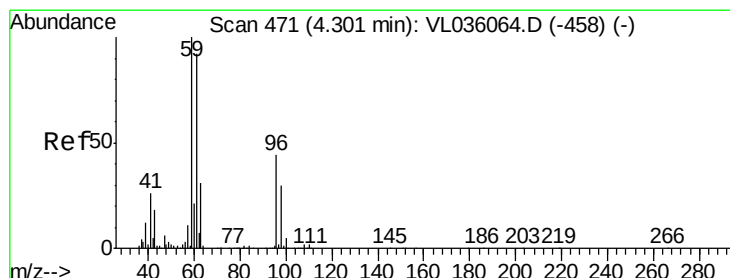
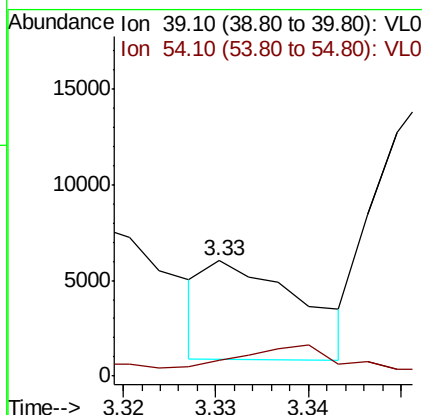
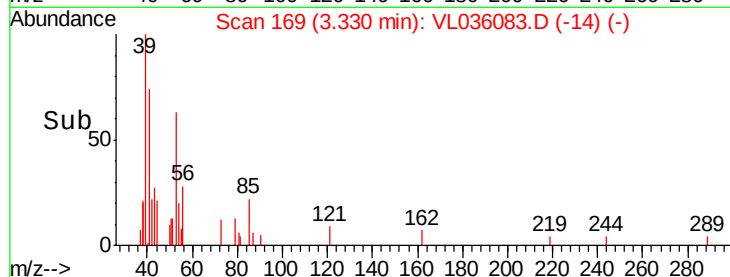
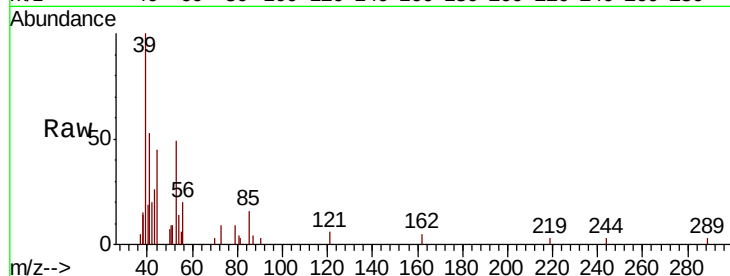




#16  
1,3-Butadiene  
Concen: 0.050 ppbv  
RT: 3.33 min Scan# 169  
Delta R.T. -0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

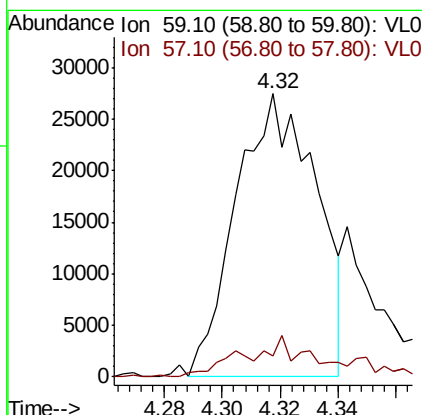
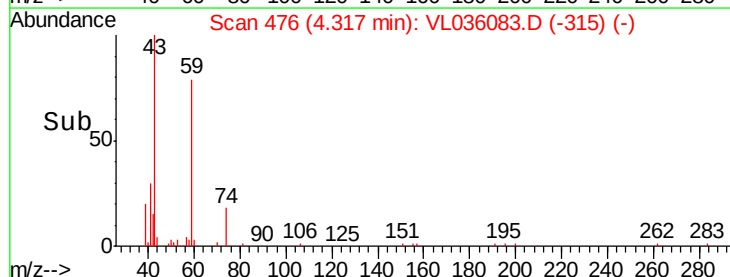
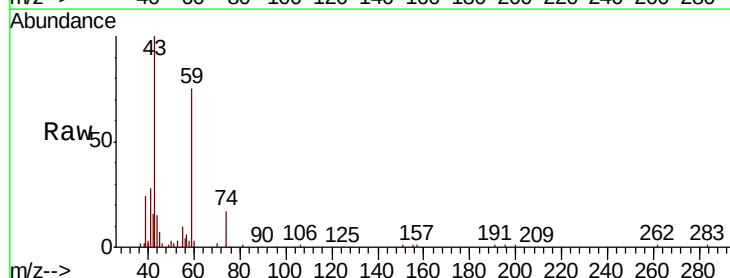
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-6B

Tot Ion: 39 Resp: 3641  
Ion Ratio Lower Upper  
39 100  
54 86.2 62.1 93.1

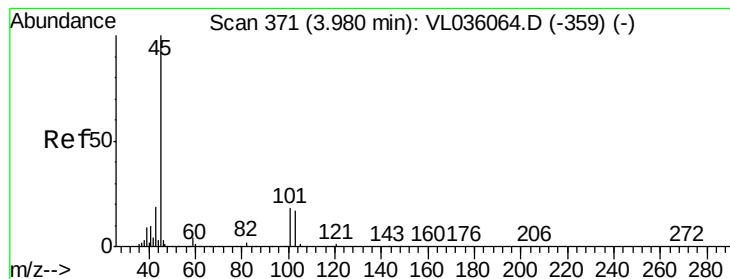


#17  
tert-Butyl alcohol  
Concen: 0.378 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. 0.02 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

Tgt Ion: 59 Resp: 52611  
Ion Ratio Lower Upper  
59 100  
57 14.1 8.7 13.1#







#19

Isopropyl Alcohol

Concen: 1.433 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampled :

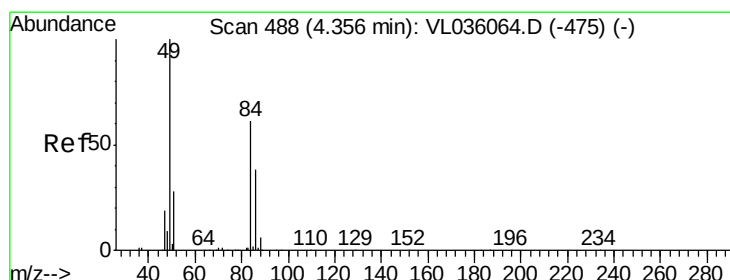
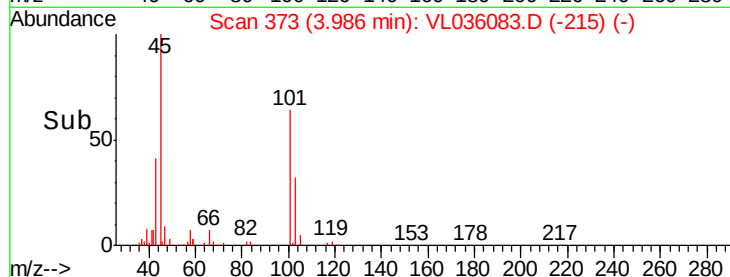
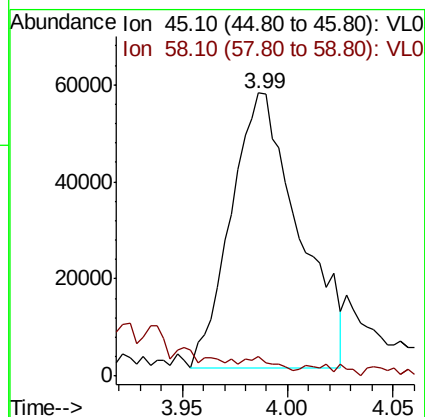
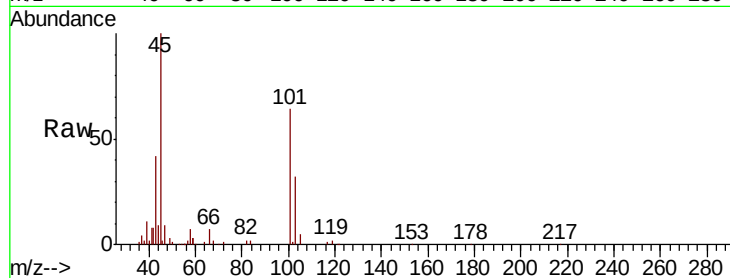
IA-6B

Tot Ion: 45 Resp: 125976

Ion Ratio Lower Upper

45 100

58 312.0 0.0 0.0#



#20

Methylene Chloride

Concen: 3.677 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Tgt Ion: 84 Resp: 216675

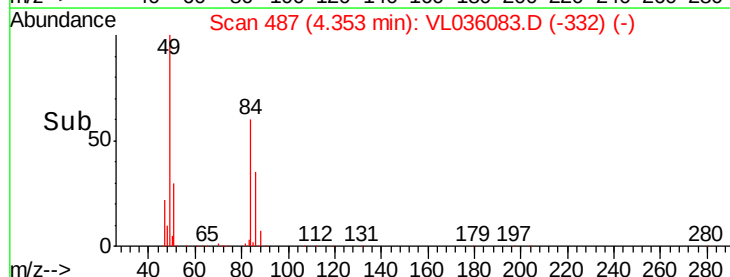
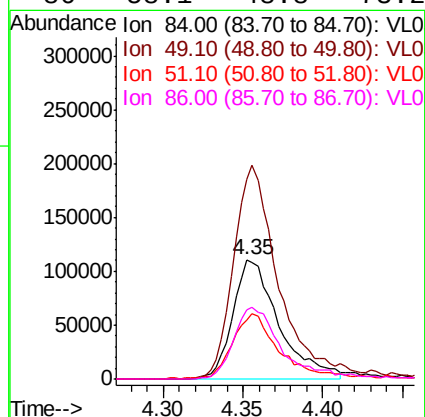
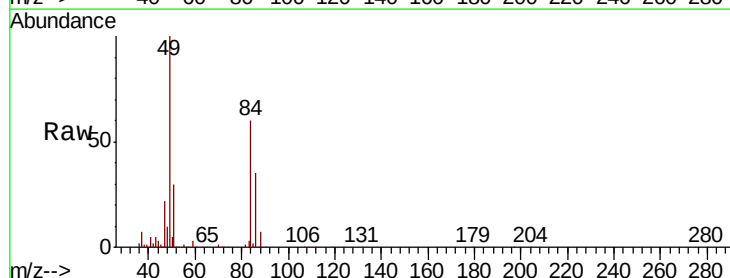
Ion Ratio Lower Upper

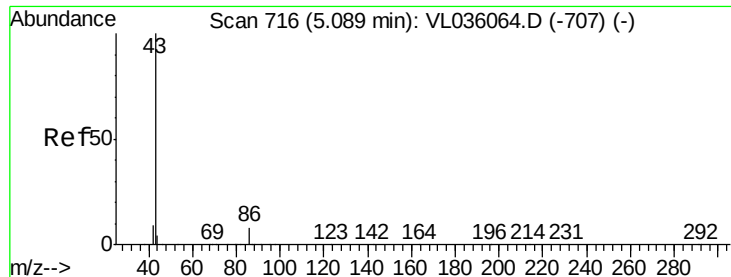
84 100

49 167.4 133.0 199.4

51 49.1 38.9 58.3

86 58.1 48.8 73.2





#23

Vinyl Acetate

Concen: 0.223 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleID :

IA-6B

Tot Ion: 43 Resp: 42610

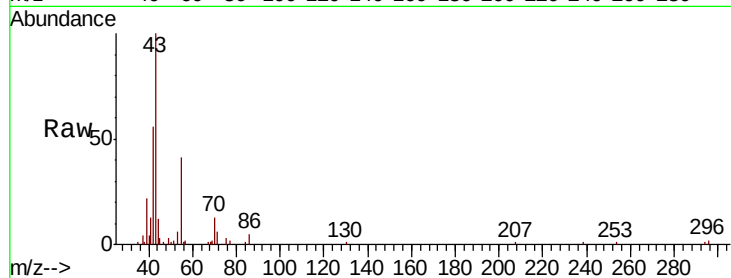
Ion Ratio Lower Upper

43 100

86 5.0 5.0 7.4

42 52.3 7.8 11.6#

44 0.0 3.2 4.8#

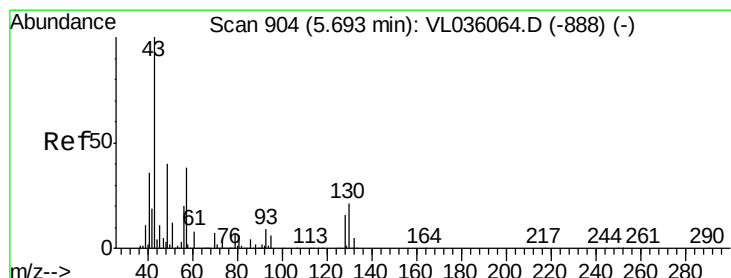
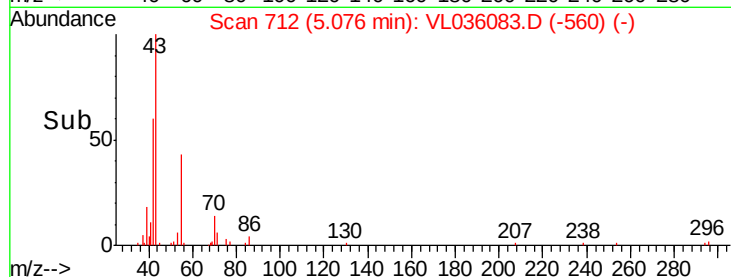
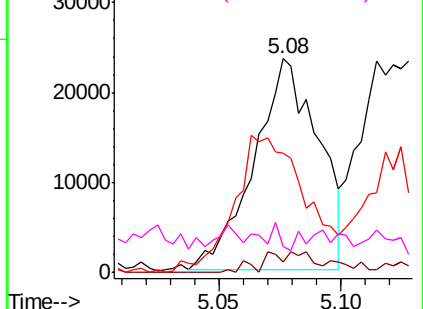


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.806 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Tgt Ion: 43 Resp: 231522

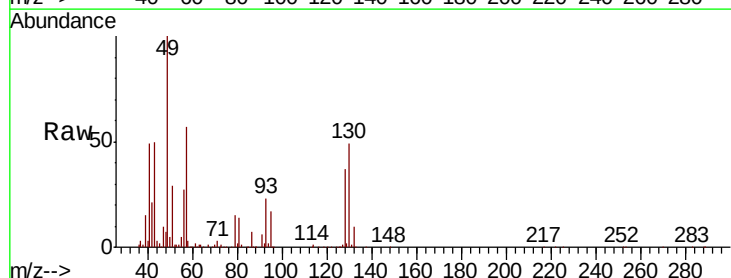
Ion Ratio Lower Upper

43 100

45 5.7 8.2 12.4#

61 4.0 7.4 11.2#

70 4.5 5.4 8.0#

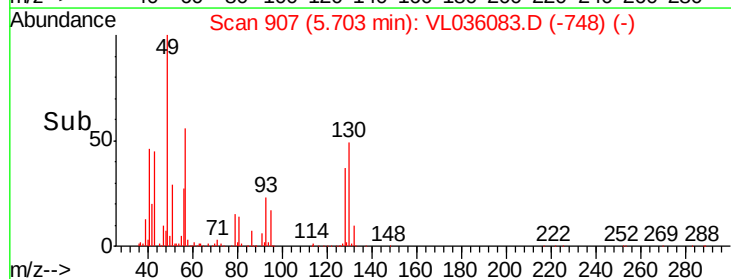
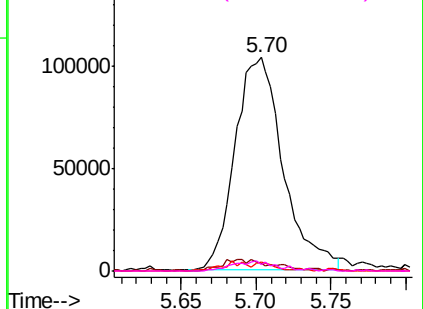


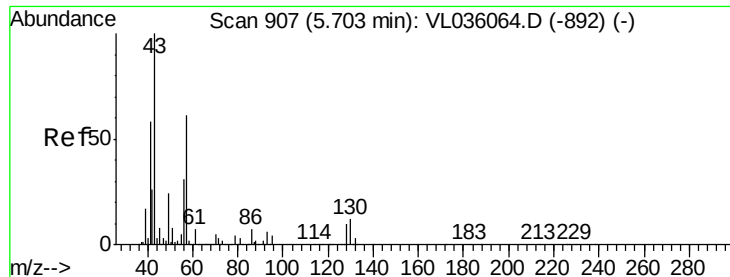
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

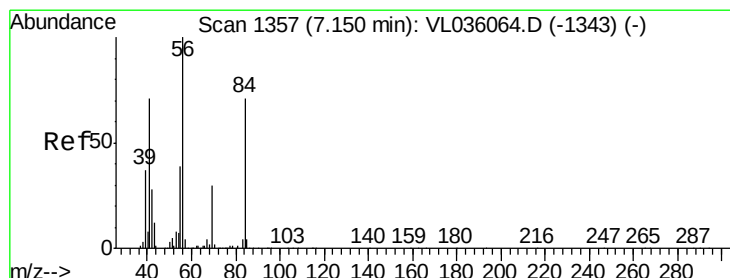
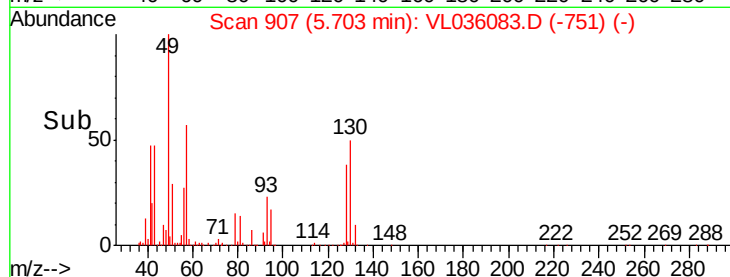
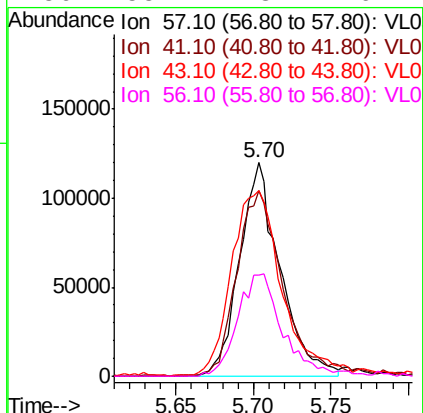
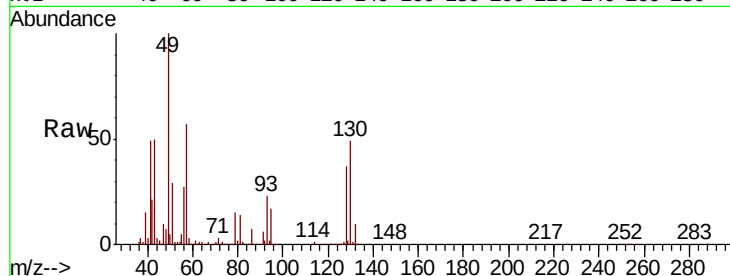




#26  
Hexane  
Concen: 1.686 ppbv  
RT: 5.70 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

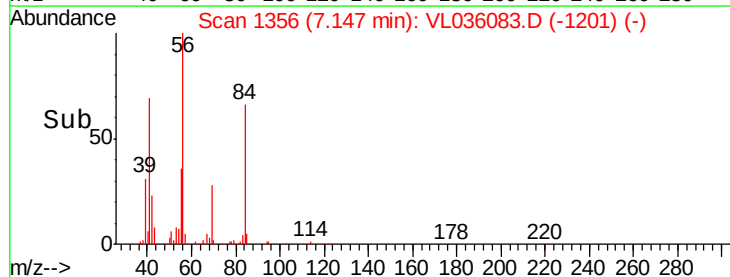
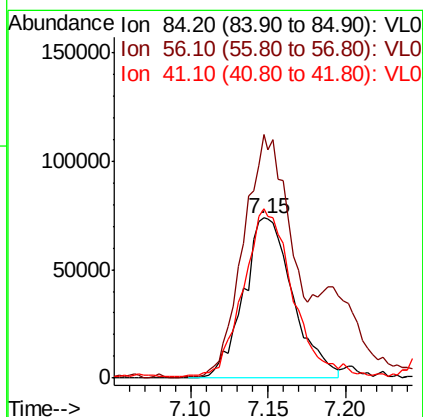
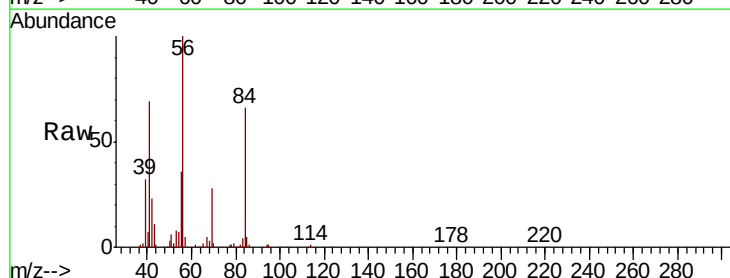
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-6B

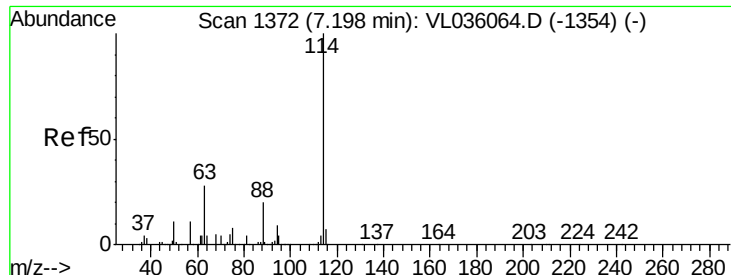
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 100.6 | 82.9  | 124.3  |
| 43      | 112.6 | 199.9 | 299.9# |
| 56      | 55.1  | 43.1  | 64.7   |



#30  
Cyclohexane  
Concen: 1.720 ppbv  
RT: 7.15 min Scan# 1356  
Delta R.T. -0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 56      | 198.6 | 128.0 | 192.0# |
| 41      | 104.9 | 81.3  | 121.9  |

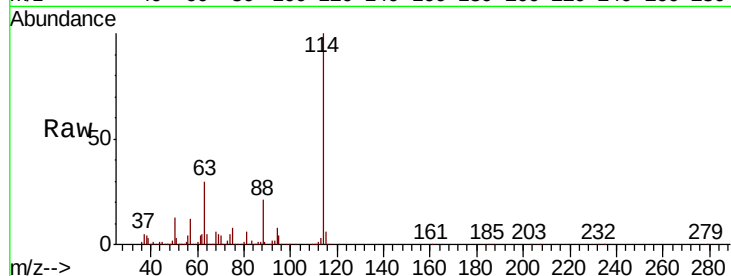




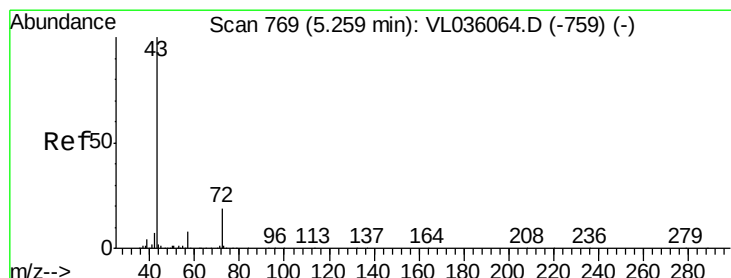
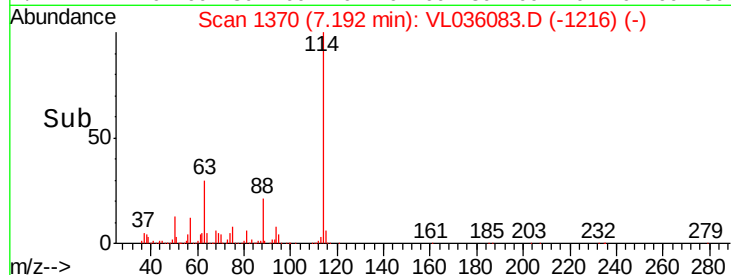
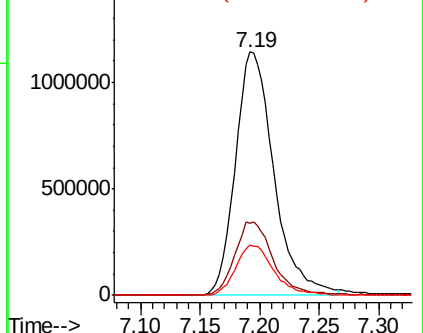
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1370  
 Delta R.T. -0.01 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-6B

Tot Ion:114 Resp: 2567601  
 Ion Ratio Lower Upper  
 114 100  
 63 30.6 23.6 35.4  
 88 20.6 15.8 23.6

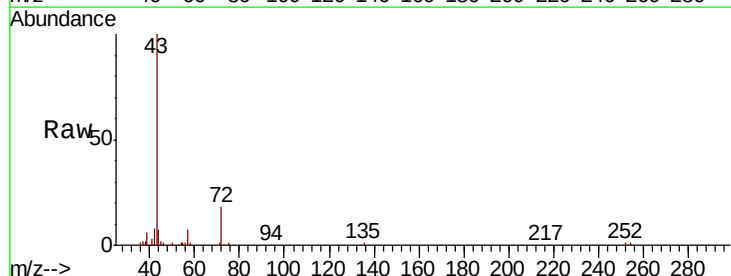


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

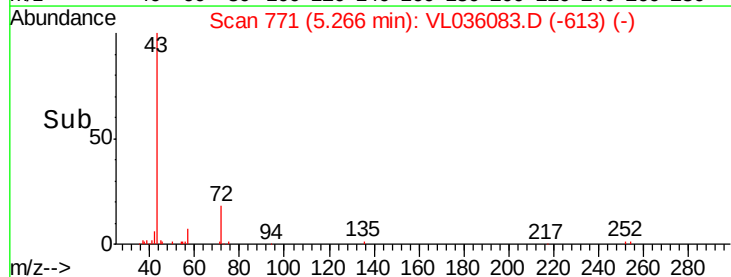
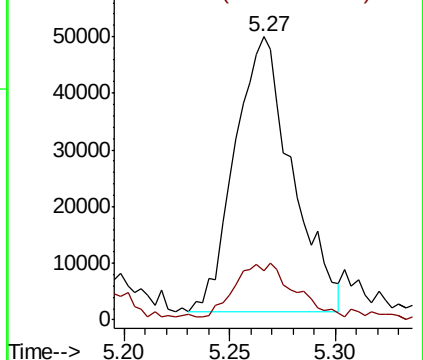


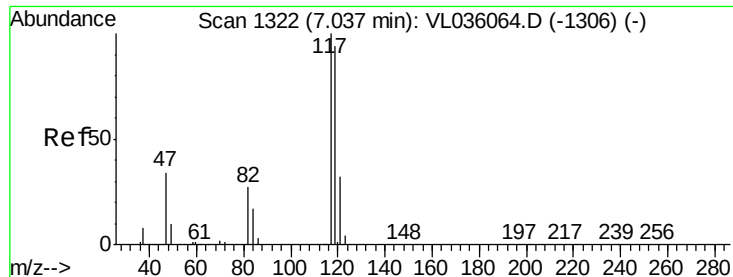
#34  
 2-Butanone  
 Concen: 0.536 ppbv  
 RT: 5.27 min Scan# 771  
 Delta R.T. 0.01 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

Tgt Ion: 43 Resp: 91311  
 Ion Ratio Lower Upper  
 43 100  
 72 24.9 16.5 24.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.034 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

IA-6B

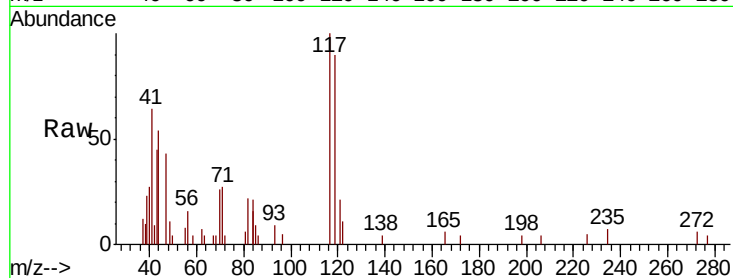
Tot Ion:117 Resp: 5088

Ion Ratio Lower Upper

117 100

119 49.8 75.1 112.7#

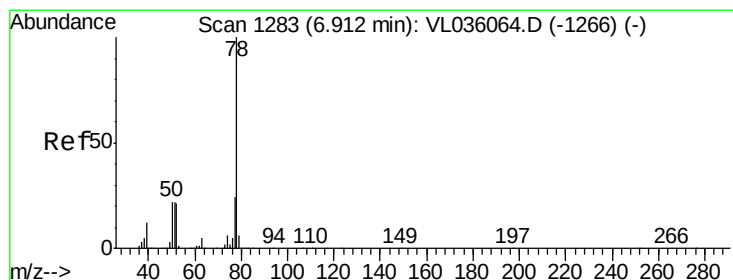
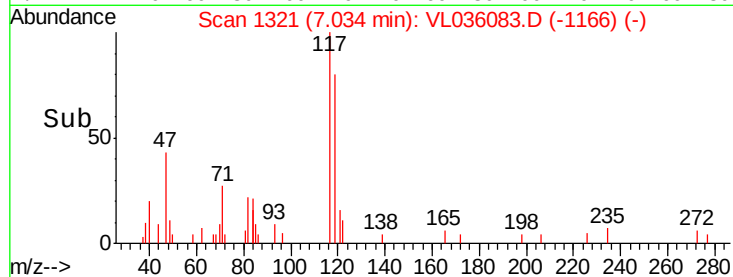
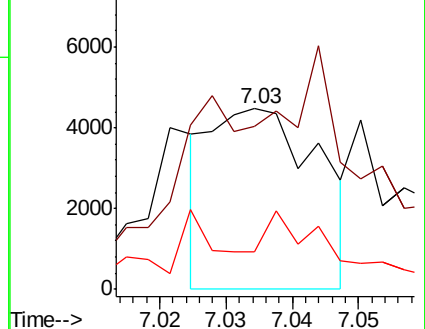
121 11.8 25.6 38.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.232 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

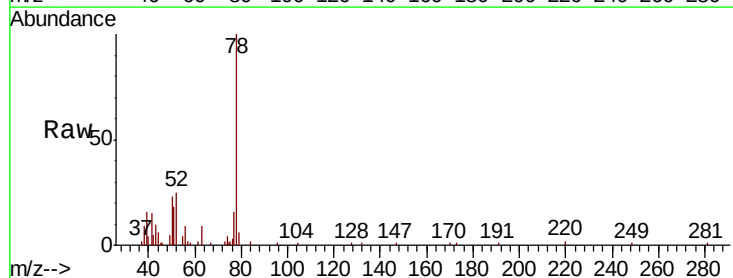
Tgt Ion: 78 Resp: 50377

Ion Ratio Lower Upper

78 100

77 15.9 19.4 29.2#

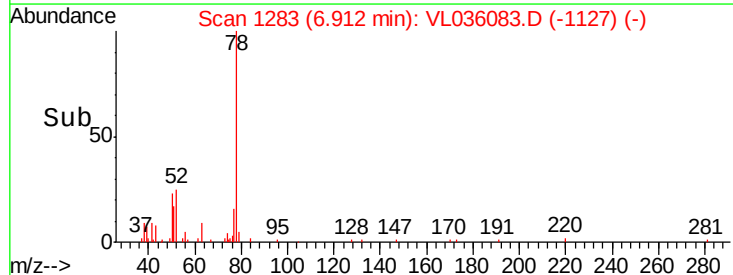
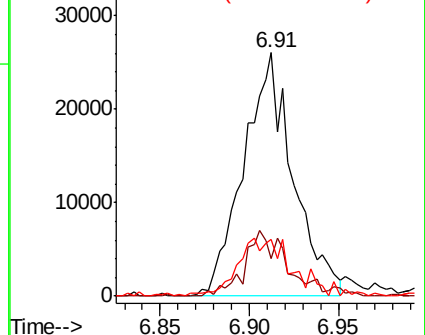
50 23.5 17.8 26.8

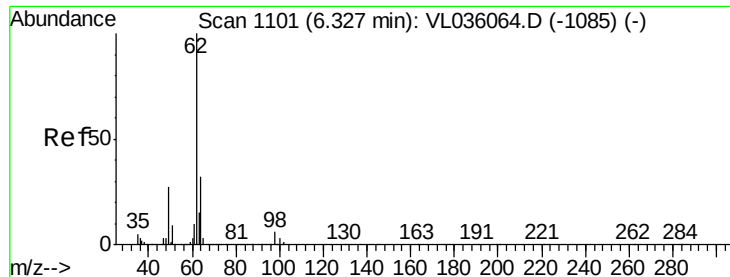


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

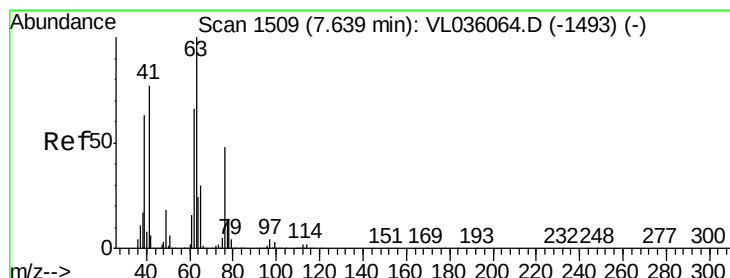
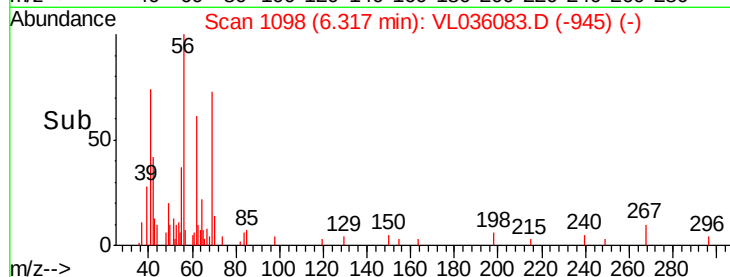
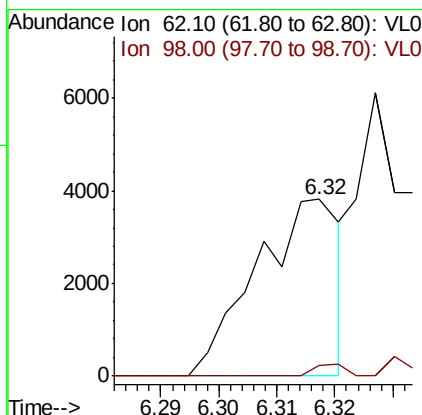
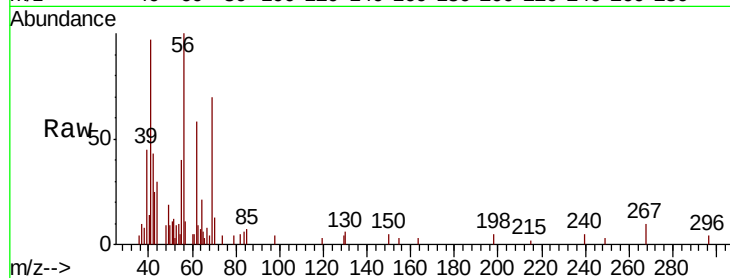




#37  
 1,2-Dichloroethane  
 Concen: 0.030 ppbv  
 RT: 6.32 min Scan# 1098  
 Delta R.T. -0.01 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

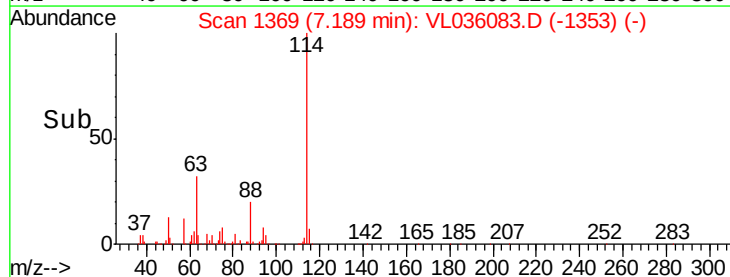
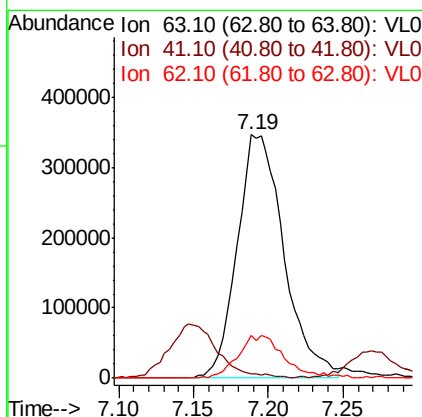
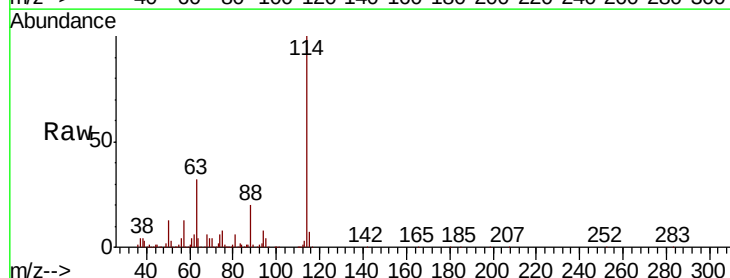
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-6B

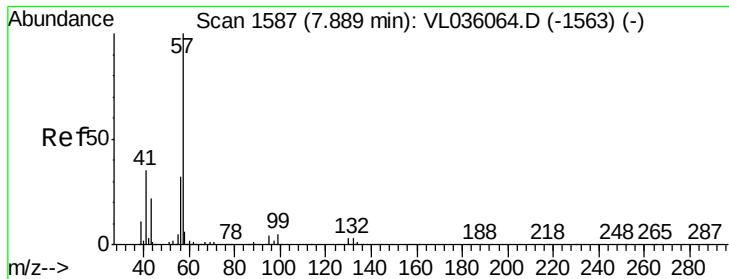
Tot Ion: 62 Resp: 3835  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 4.6 7.0#



#39  
 1,2-Dichloropropane  
 Concen: 8.765 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. -0.45 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

Tgt Ion: 63 Resp: 753230  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 61.9 92.9#  
 62 17.4 52.5 78.7#

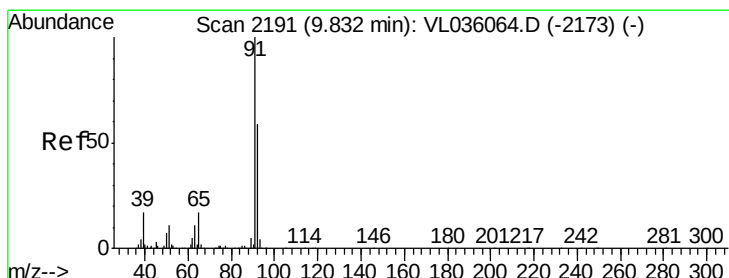
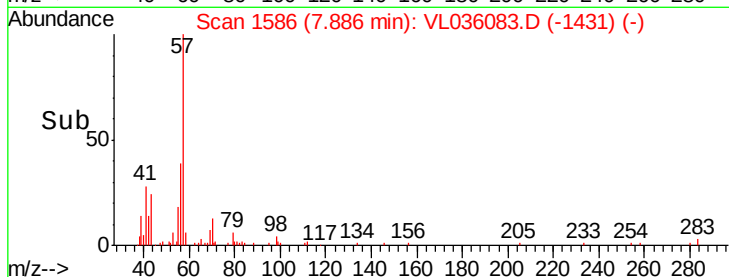
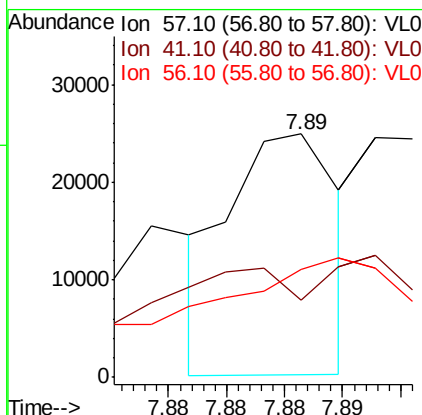
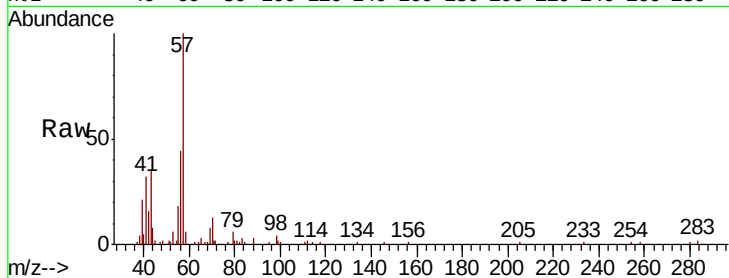




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.041 ppbv  
 RT: 7.89 min Scan# 1586  
 Delta R.T. -0.00 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

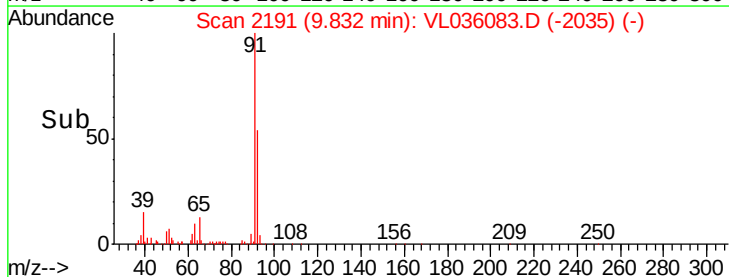
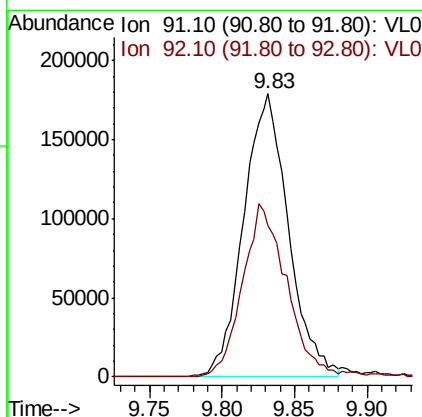
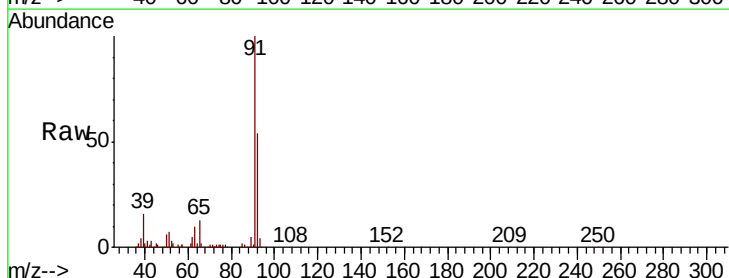
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-6B

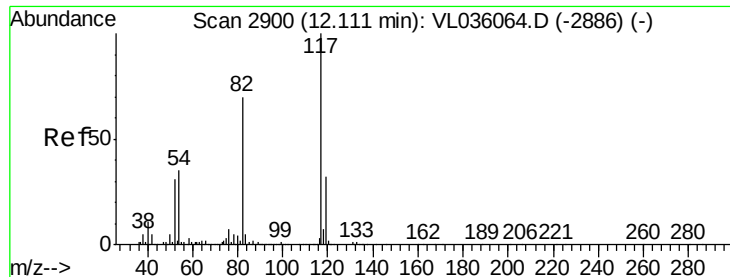
Tot Ion: 57 Resp: 16052  
 Ion Ratio Lower Upper  
 57 100  
 41 0.0 28.9 43.3#  
 56 0.0 25.3 37.9#



#53  
 Toluene  
 Concen: 1.575 ppbv  
 RT: 9.83 min Scan# 2191  
 Delta R.T. 0.00 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

Tgt Ion: 91 Resp: 384726  
 Ion Ratio Lower Upper  
 91 100  
 92 61.1 48.2 72.2

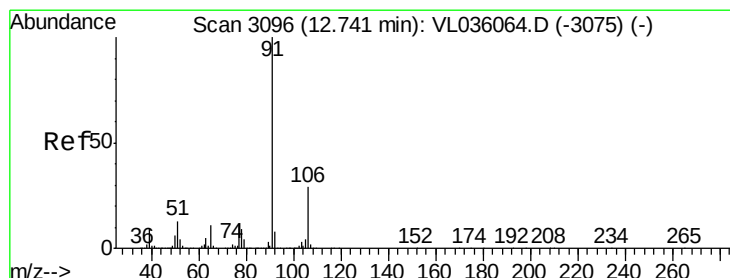
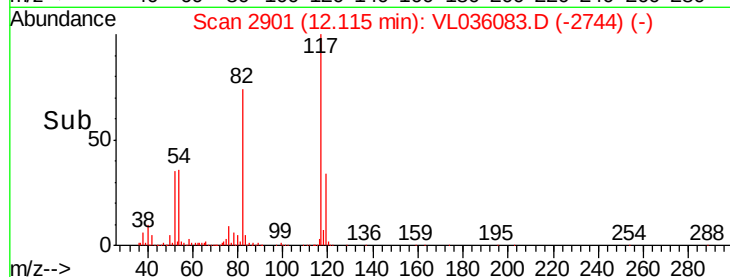
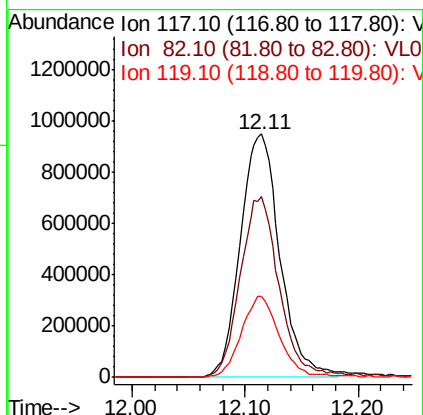
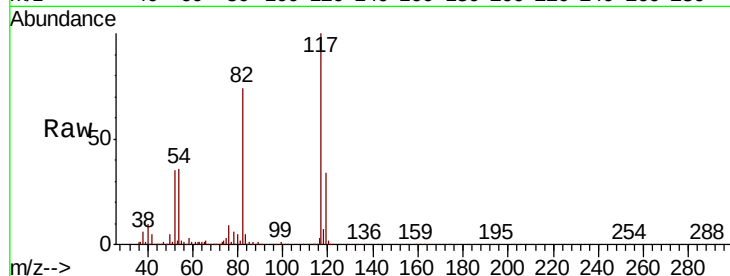




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min Scan# 2901  
Delta R.T. 0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

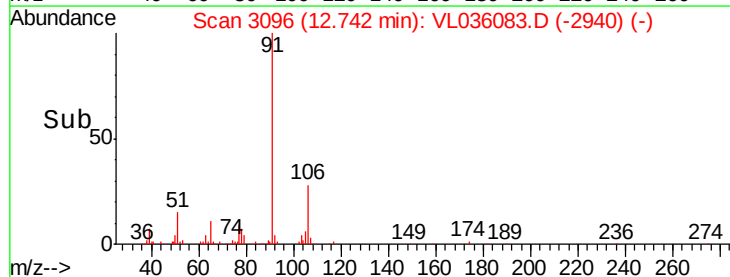
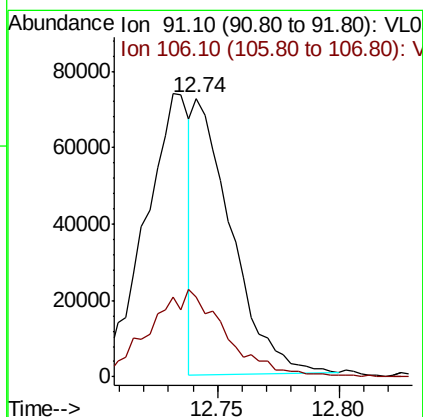
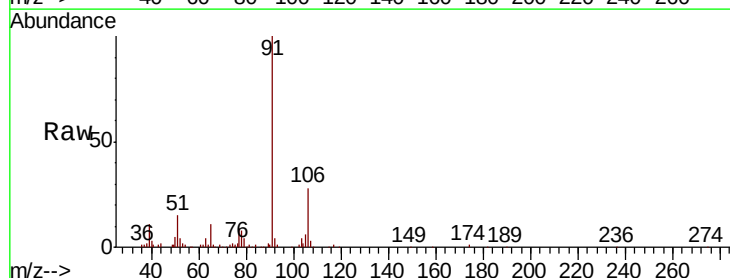
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-6B

Tot Ion:117 Resp: 2313295  
Ion Ratio Lower Upper  
117 100  
82 75.3 0.0 0.0#  
119 32.9 0.0 0.0#

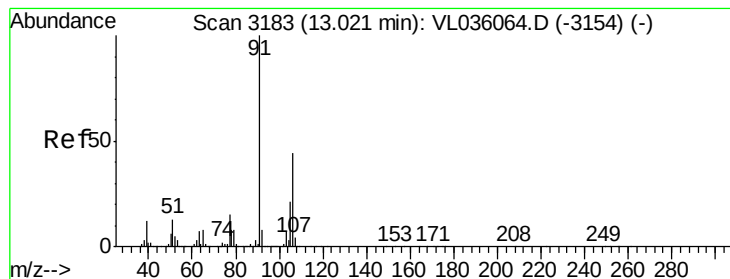


#58  
Ethyl Benzene  
Concen: 0.244 ppbv  
RT: 12.74 min Scan# 3096  
Delta R.T. 0.00 min  
Lab File: VL036083.D  
Acq: 8 Dec 2020 3:06

Tgt Ion: 91 Resp: 77462  
Ion Ratio Lower Upper  
91 100  
106 28.2 23.0 34.4







#59

m/p-Xylene

Concen: 2.580 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

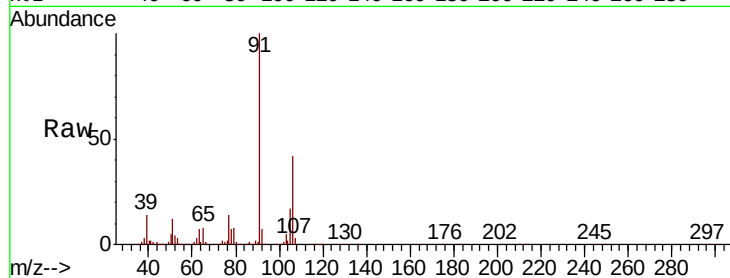
IA-6B

Tot Ion: 91 Resp: 688968

Ion Ratio Lower Upper

91 100

106 43.3 33.6 50.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

250000

200000

150000

100000

50000

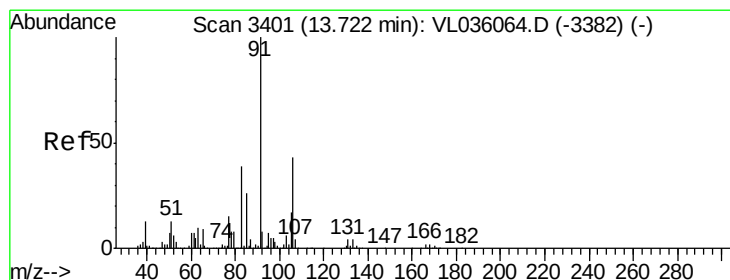
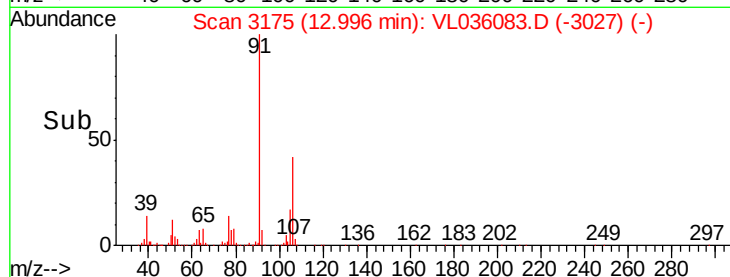
0

12.90

13.00

13.10

Time-->



#60

o-Xylene

Concen: 0.990 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VL036083.D

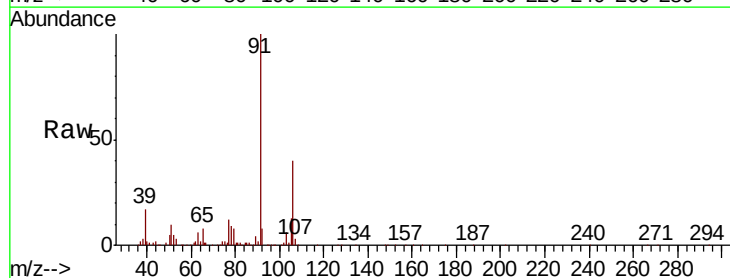
Acq: 8 Dec 2020 3:06

Tgt Ion: 91 Resp: 248936

Ion Ratio Lower Upper

91 100

106 43.7 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

120000

100000

80000

60000

40000

20000

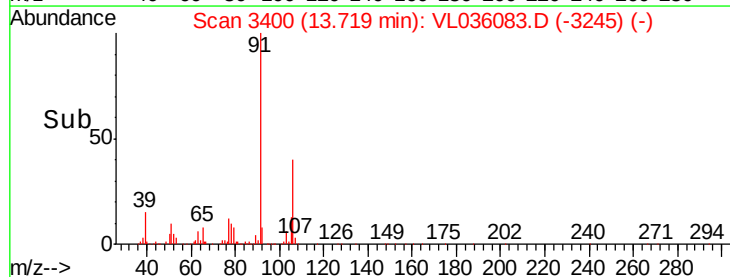
0

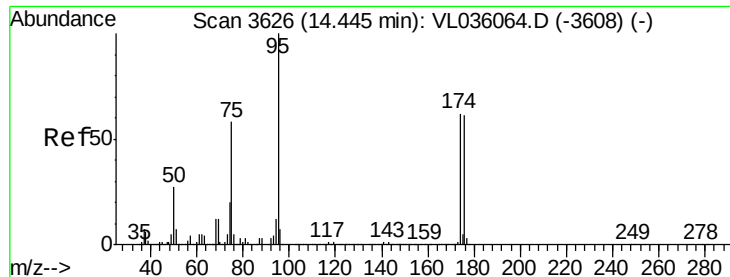
13.65

13.70

13.75

Time-->

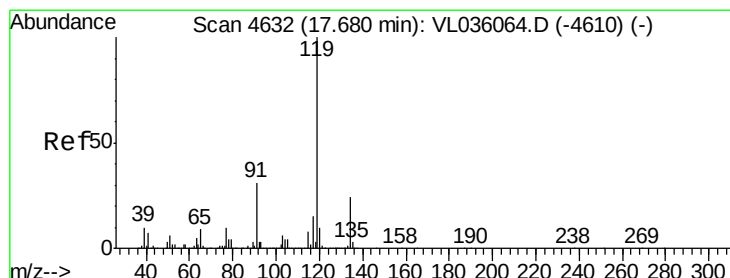
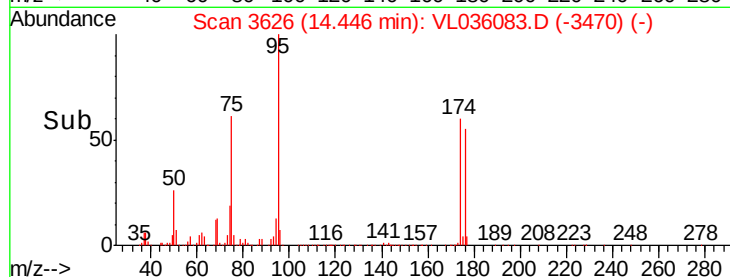
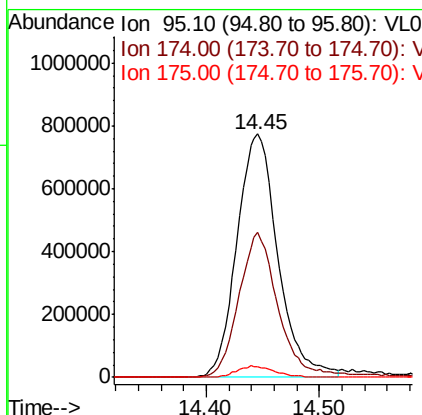
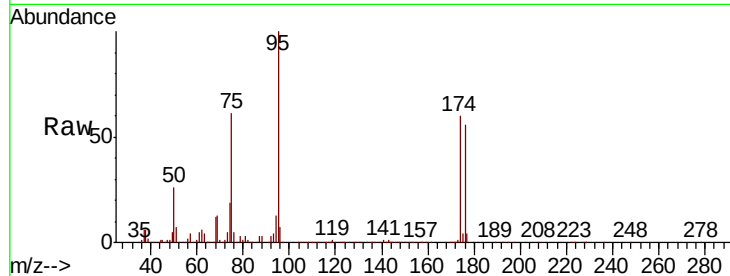




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.613 ppbv  
 RT: 14.45 min Scan# 3626  
 Delta R.T. 0.00 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

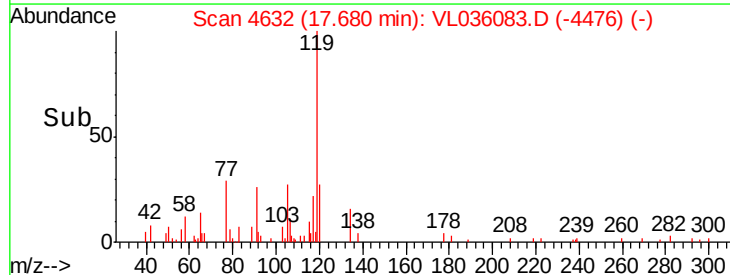
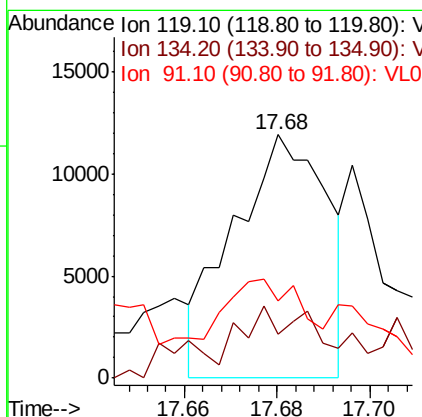
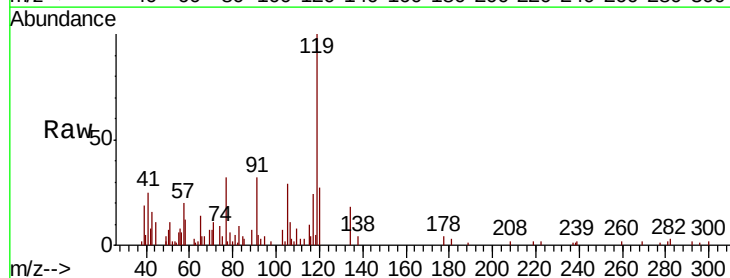
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-6B

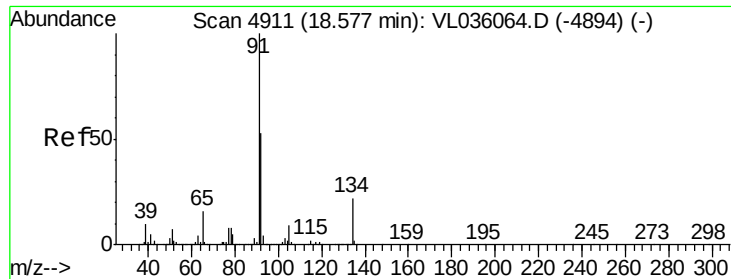
Tot Ion: 95 Resp: 1949446  
 Ion Ratio Lower Upper  
 95 100  
 174 58.1 50.7 76.1  
 175 4.5 4.0 6.0



#69  
 p-Isopropyltoluene  
 Concen: 0.049 ppbv  
 RT: 17.68 min Scan# 4632  
 Delta R.T. 0.00 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

Tgt Ion: 119 Resp: 16768  
 Ion Ratio Lower Upper  
 119 100  
 134 45.2 19.8 29.6#  
 91 64.2 25.8 38.6#





#70

n-Butylbenzene

Concen: 0.050 ppbv

RT: 18.59 min Scan# 4915

Delta R.T. 0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleID :

IA-6B

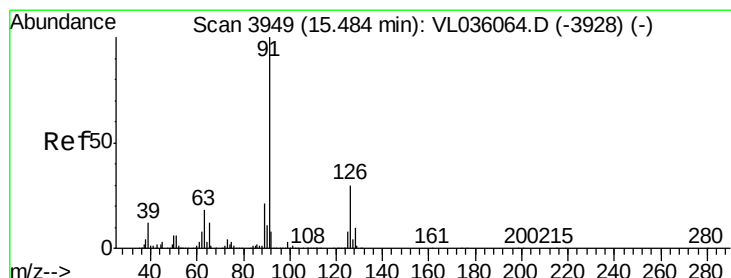
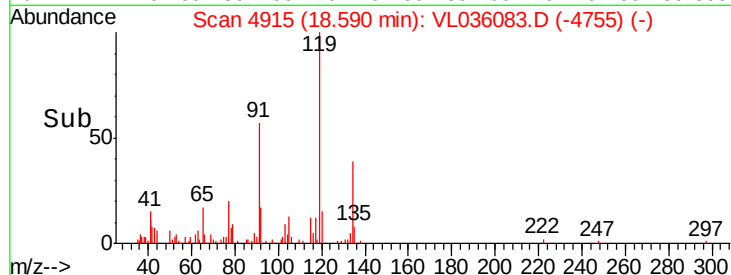
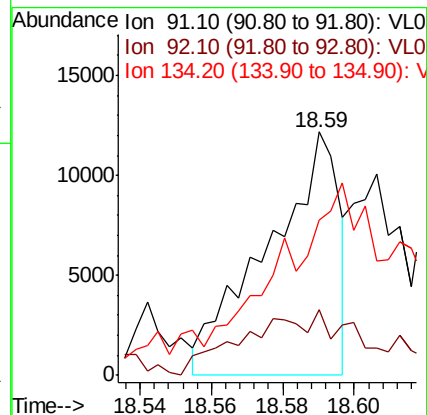
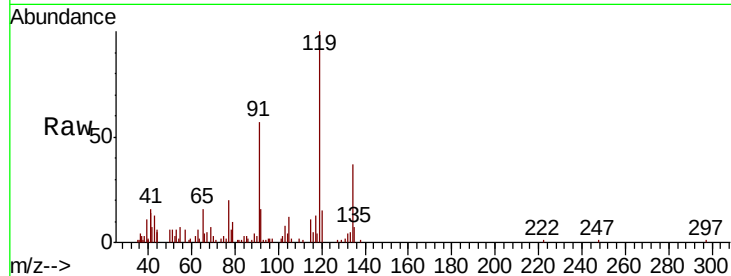
Tot Ion: 91 Resp: 16913

Ion Ratio Lower Upper

91 100

92 52.6 43.3 64.9

134 170.8 17.1 25.7#



#71

2-Chlorotoluene

Concen: 0.047 ppbv

RT: 15.59 min Scan# 3981

Delta R.T. 0.10 min

Lab File: VL036083.D

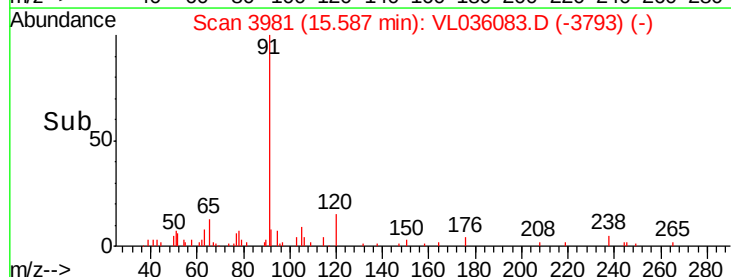
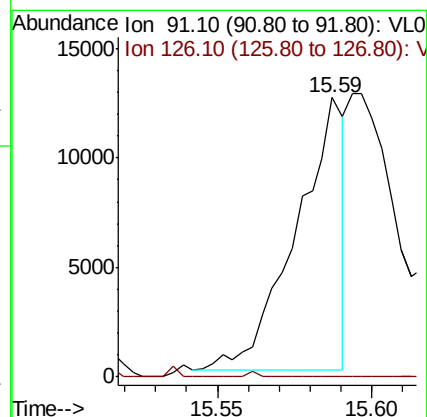
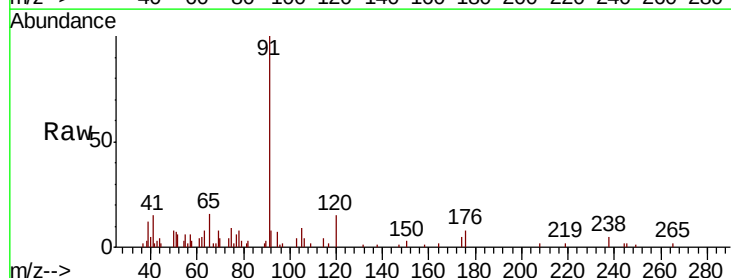
Acq: 8 Dec 2020 3:06

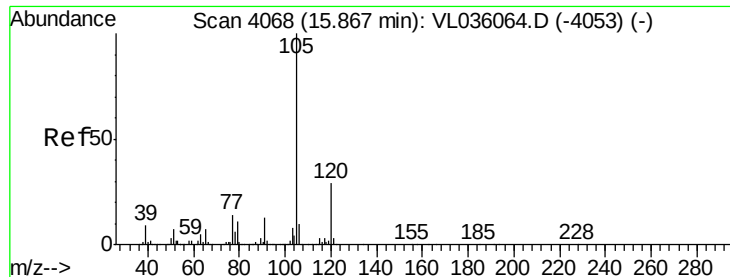
Tgt Ion: 91 Resp: 13357

Ion Ratio Lower Upper

91 100

126 5.3 11.6 46.4#





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

IA-6B

Tot Ion:105 Resp: 8702

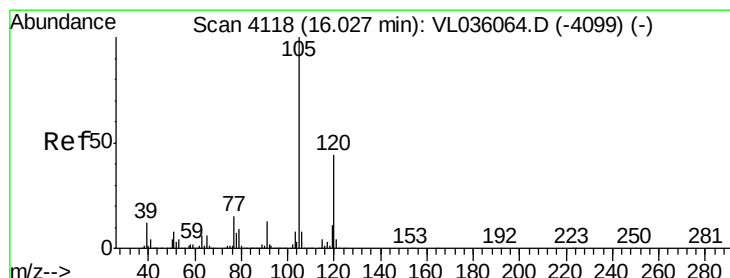
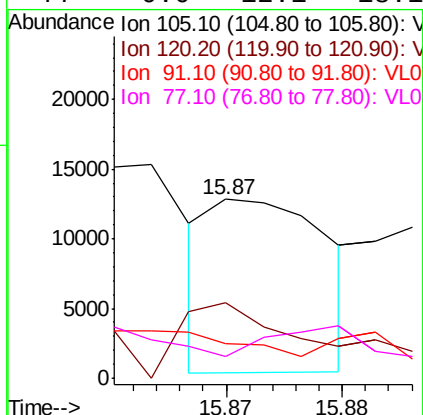
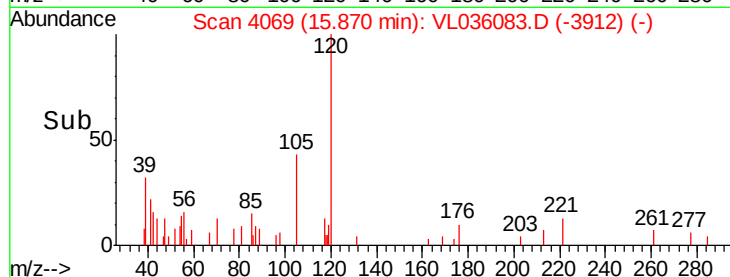
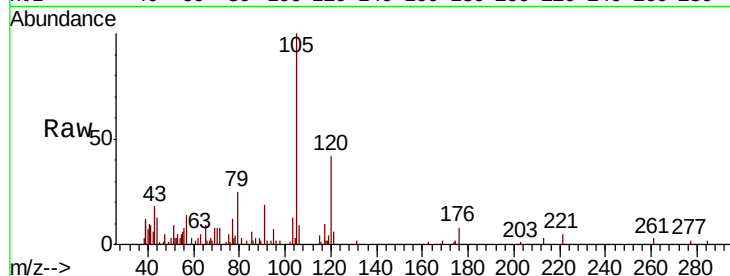
Ion Ratio Lower Upper

105 100

120 78.5 23.6 35.4#

91 0.0 11.4 17.0#

77 0.0 12.1 18.1#



#73

1,3,5-Trimethylbenzene

Concen: 0.109 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL036083.D

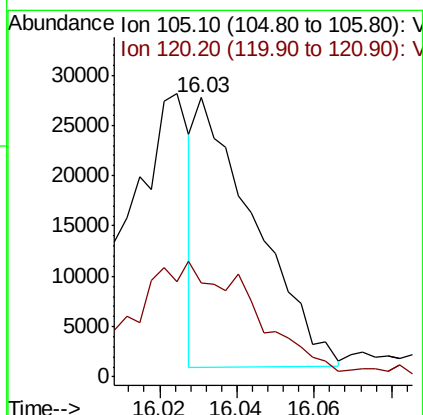
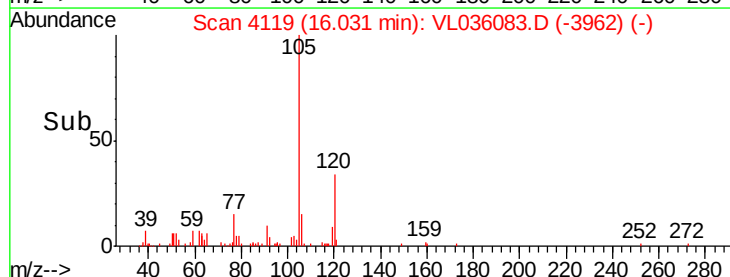
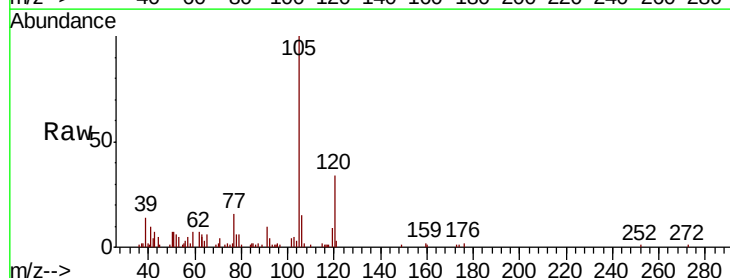
Acq: 8 Dec 2020 3:06

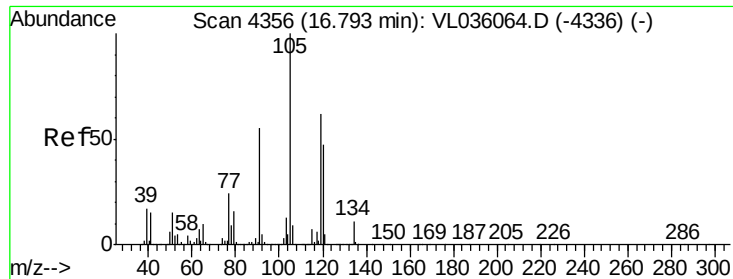
Tgt Ion:105 Resp: 28350

Ion Ratio Lower Upper

105 100

120 33.6 35.4 53.2#

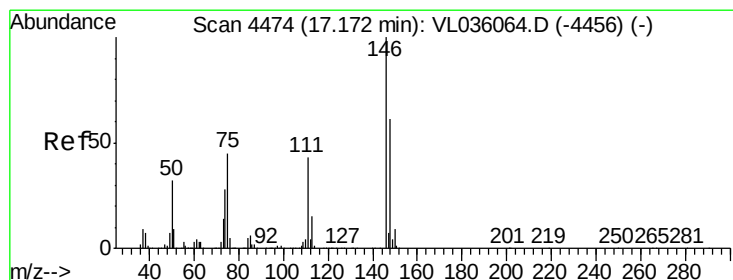
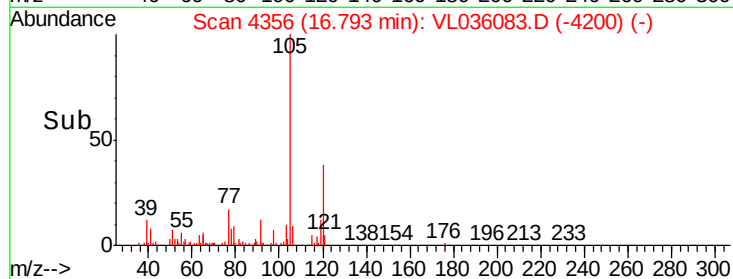
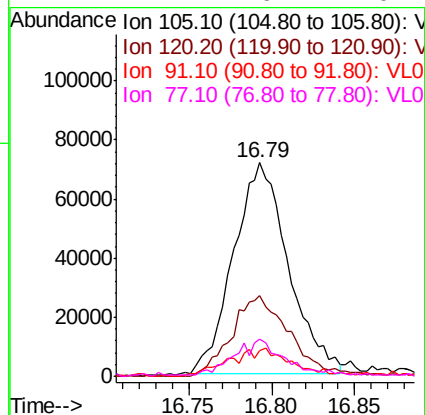
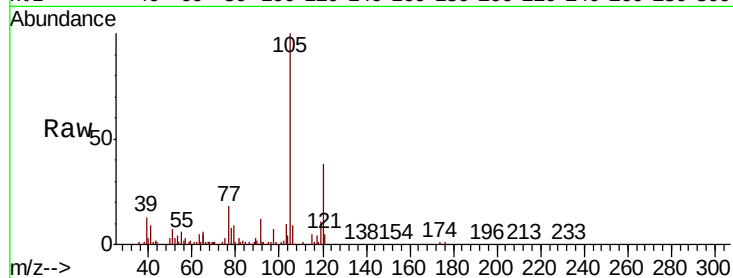




#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.626 ppbv  
 RT: 16.79 min Scan# 4356  
 Delta R.T. 0.00 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

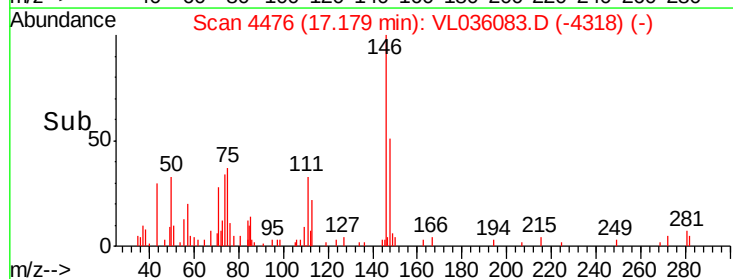
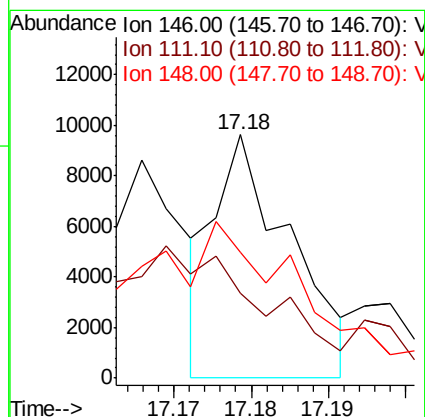
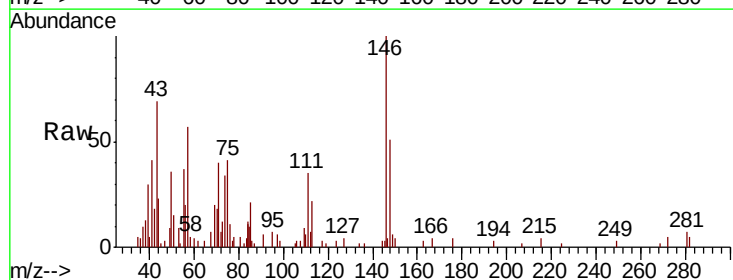
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-6B

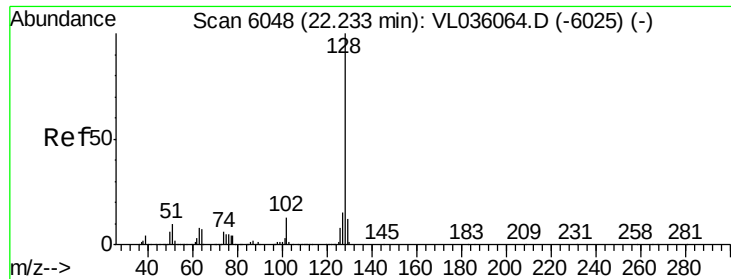
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 163654 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 37.9  | 37.4  | 56.0   |
| 91       | 11.0  | 45.6  | 68.4#  |
| 77       | 17.2  | 19.4  | 29.2#  |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.049 ppbv  
 RT: 17.18 min Scan# 4476  
 Delta R.T. 0.01 min  
 Lab File: VL036083.D  
 Acq: 8 Dec 2020 3:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 6546  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 0.0   | 24.3  | 72.8# |
| 148      | 193.0 | 32.8  | 98.3# |





#79

Naphthalene

Concen: 0.165 ppbv

RT: 22.24 min Scan# 6051

Delta R.T. 0.01 min

Lab File: VL036083.D

Acq: 8 Dec 2020 3:06

Instrument :

MSVOA\_L

ClientSampleId :

IA-6B

Tot Ion:128 Resp: 21968

Ion Ratio Lower Upper

128 100

127 17.2 11.7 17.5

129 17.0 9.3 13.9#

