

Data File : VL034218.D  
Acq On : 2 Oct 2019 19:51  
Operator : SY/AP  
Sample : K5106-01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Quant Time: Oct 03 05:44:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 18 12:53:31 2019  
QLast Update : Wed Sep 18 12:53:31 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.70  | 49   | 920802   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.22  | 114  | 1716984  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.16 | 117  | 1741449  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.49  | 95    | 1506791  | 9.96     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.60% |

#### Target Compounds

|                            |       |     |         |        |        | Qvalue |
|----------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.03  | 85  | 45629   | 0.335  | ppbv   | 89     |
| 3) Chlorodifluoromethane   | 2.94  | 51  | 51760   | 0.479  | ppbv # | 77     |
| 4) Chloromethane           | 3.12  | 50  | 17242   | 0.272  | ppbv   | 98     |
| 9) Propene                 | 2.99  | 41  | 1604647 | 30.125 | ppbv   | 92     |
| 10) Heptane                | 8.18  | 43  | 120261  | 0.866  | ppbv   | 95     |
| 11) Trichlorofluoromethane | 3.95  | 101 | 31657   | 0.256  | ppbv   | 98     |
| 13) Ethanol                | 3.60  | 45  | 201255  | 15.603 | ppbv   | 94     |
| 15) Acetone                | 3.85  | 43  | 3402003 | 27.566 | ppbv   | 96     |
| 16) 1,3-Butadiene          | 3.34  | 39  | 240707  | 4.469  | ppbv   | 87     |
| 17) tert-Butyl alcohol     | 4.30  | 59  | 339872  | 4.346  | ppbv   | 100    |
| 19) Isopropyl Alcohol      | 3.98  | 45  | 136527  | 1.799  | ppbv # | 95     |
| 20) Methylene Chloride     | 4.36  | 84  | 153651  | 4.318  | ppbv   | 93     |
| 21) Allyl Chloride         | 4.42  | 41  | 3287    | 0.047  | ppbv # | 1      |
| 23) Vinyl Acetate          | 5.08  | 43  | 172174  | 0.947  | ppbv # | 7      |
| 25) Ethyl Acetate          | 5.72  | 43  | 526180  | 2.255  | ppbv # | 86     |
| 26) Hexane                 | 5.72  | 57  | 508973  | 5.243  | ppbv # | 52     |
| 27) Carbon Disulfide       | 4.56  | 76  | 227648  | 2.543  | ppbv # | 92     |
| 29) Chloroform             | 5.78  | 83  | 23825   | 0.172  | ppbv   | 95     |
| 30) Cyclohexane            | 7.18  | 84  | 36433   | 0.520  | ppbv # | 1      |
| 34) 2-Butanone             | 5.26  | 43  | 826695  | 4.715  | ppbv   | 97     |
| 36) Benzene                | 6.93  | 78  | 110933  | 0.585  | ppbv # | 89     |
| 39) 1,2-Dichloropropane    | 7.22  | 63  | 525503  | 6.168  | ppbv # | 19     |
| 41) Tetrahydrofuran        | 6.09  | 42  | 9722    | 0.098  | ppbv # | 78     |
| 44) 2,2,4-Trimethylpentane | 7.92  | 57  | 83560   | 0.229  | ppbv # | 46     |
| 50) 4-Methyl-2-Pentanone   | 8.80  | 43  | 24831   | 0.097  | ppbv # | 24     |
| 51) 2-Hexanone             | 10.19 | 43  | 29778   | 0.139  | ppbv # | 56     |
| 52) Tetrachloroethene      | 11.29 | 164 | 494447  | 7.892  | ppbv   | 96     |
| 53) Toluene                | 9.86  | 91  | 871042  | 4.203  | ppbv   | 98     |
| 58) Ethyl Benzene          | 12.79 | 91  | 57888   | 0.206  | ppbv   | 100    |
| 59) m/p-Xylene             | 13.04 | 91  | 347877  | 1.495  | ppbv   | 99     |
| 60) o-Xylene               | 13.77 | 91  | 65068   | 0.280  | ppbv # | 33     |
| 61) Styrene                | 13.61 | 104 | 11966   | 0.072  | ppbv # | 18     |
| 62) Isopropylbenzene       | 14.74 | 105 | 9081    | 0.030  | ppbv # | 29     |
| 64) n-propylbenzene        | 15.64 | 120 | 3094    | 0.041  | ppbv # | 1      |
| 65) tert-Butylbenzene      | 16.83 | 119 | 9341    | 0.035  | ppbv # | 12     |
| 69) p-Isopropyltoluene     | 17.74 | 119 | 19682   | 0.065  | ppbv # | 74     |
| 70) n-Butylbenzene         | 18.63 | 91  | 14824   | 0.042  | ppbv # | 51     |
| 72) 4-Ethyltoluene         | 15.92 | 105 | 64264   | 0.244  | ppbv # | 96     |
| 73) 1,3,5-Trimethylbenzene | 16.08 | 105 | 64210   | 0.253  | ppbv   | 93     |
| 74) 1,2,4-Trimethylbenzene | 16.84 | 105 | 215813  | 0.800  | ppbv # | 68     |
| 75) 1,3-Dichlorobenzene    | 17.09 | 146 | 7560    | 0.052  | ppbv # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100219\  
Quantitation Report (Not Reviewed)

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Misc : 400ml/MSVOA\_L  
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MSVOA\_L  
ClientSampleId :  
SV-1

Quant Time: Oct 03 05:44:21 2019  
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 18 12:53:31 2019  
QLast Update : Wed Sep 18 12:53:31 2019  
Response via : Initial Calibration

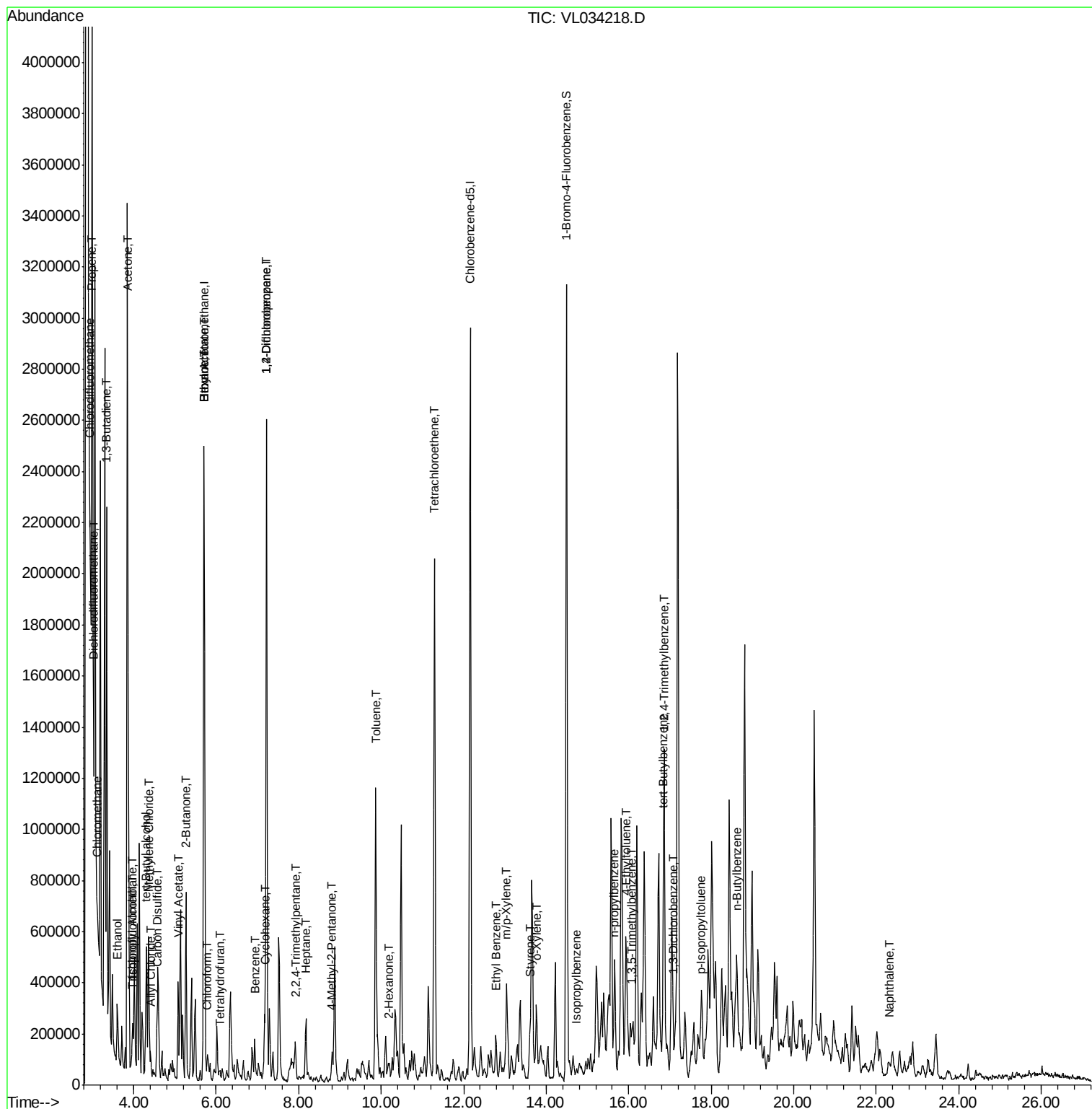
| Internal Standards | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------|-------|------|----------|-------|-------|----------|
| 79) Naphthalene    | 22.30 | 128  | 9510     | 0.040 | ppbv  | # 82     |

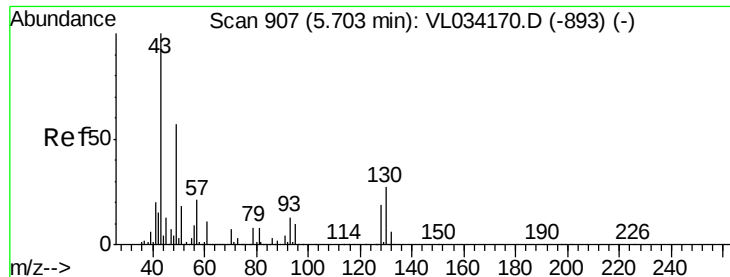
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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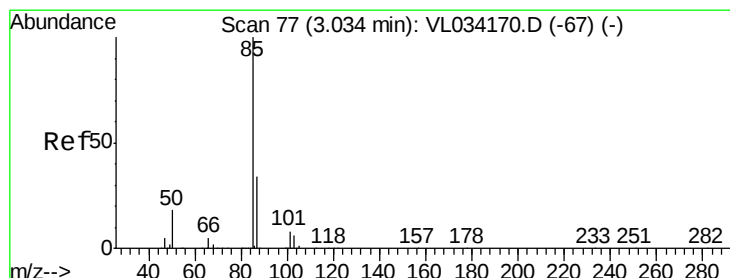
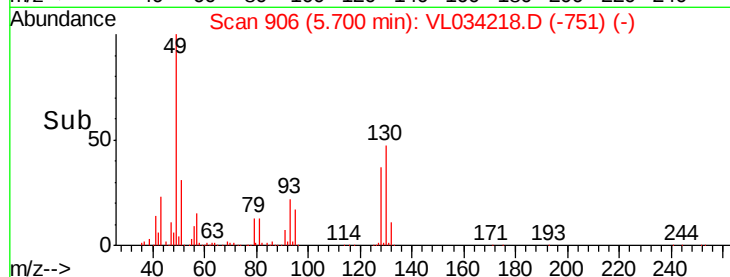
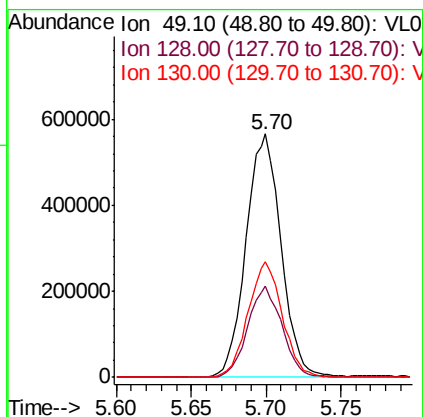
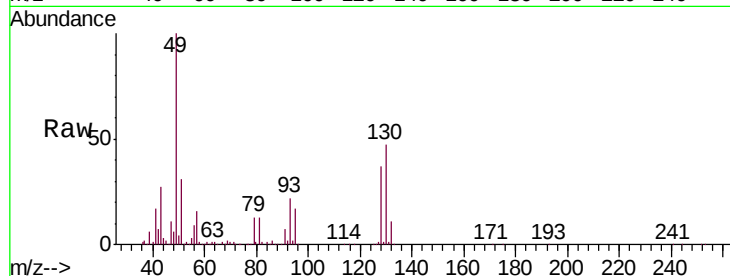




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.70 min Scan# 906  
 Delta R.T. -0.00 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

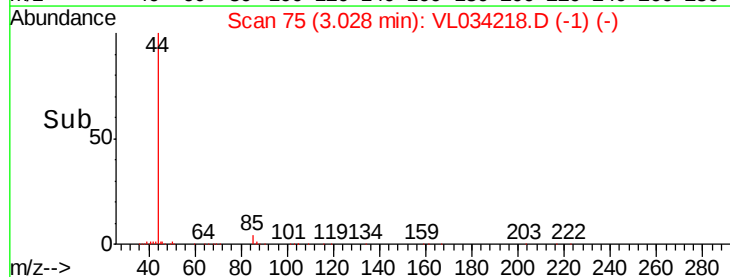
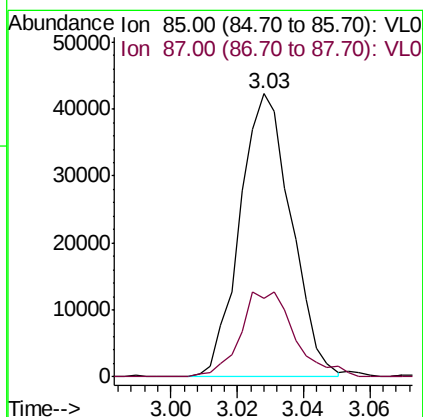
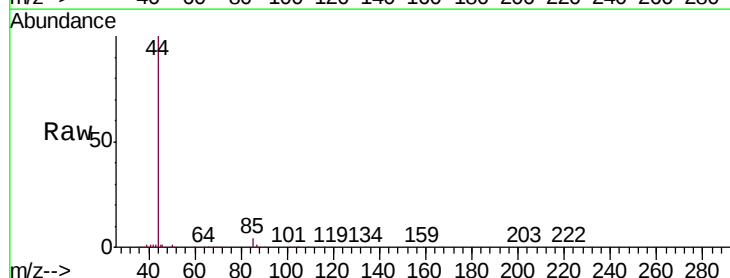
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 SV-1

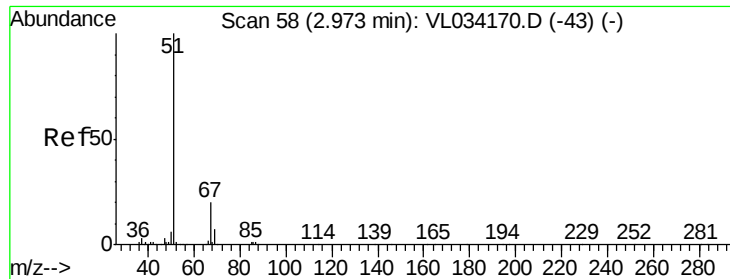
Tgt Ion: 49 Resp: 920802  
 Ion Ratio Lower Upper  
 49 100  
 128 36.9 17.6 52.9  
 130 47.0 22.3 66.9



#2  
 Dichlorodifluoromethane  
 Concen: 0.335 ppbv  
 RT: 3.03 min Scan# 75  
 Delta R.T. -0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Tgt Ion: 85 Resp: 45629  
 Ion Ratio Lower Upper  
 85 100  
 87 27.6 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.479 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.04 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampled :

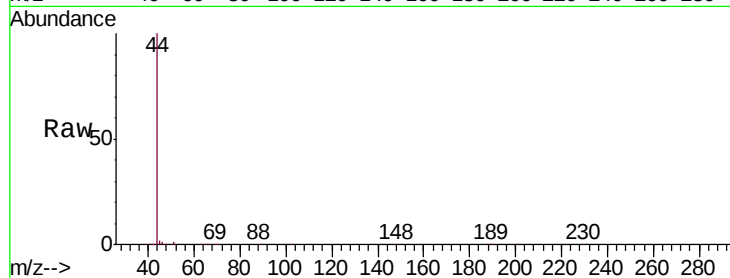
SV-1

Tgt Ion: 51 Resp: 51760

Ion Ratio Lower Upper

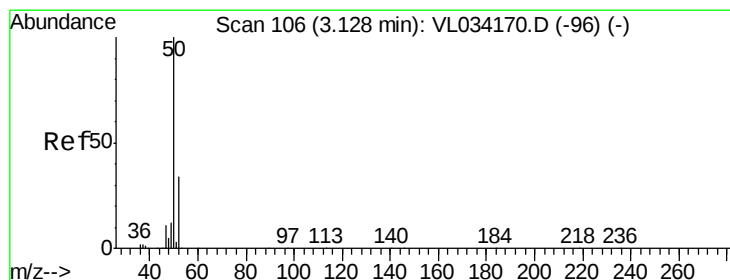
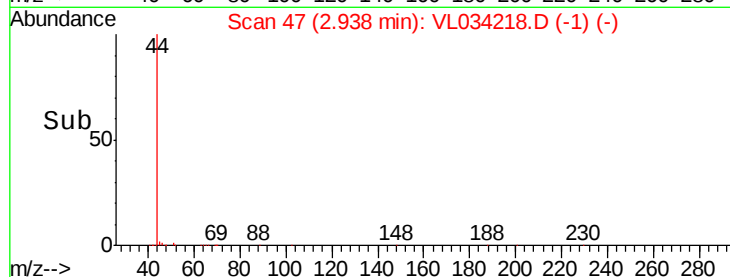
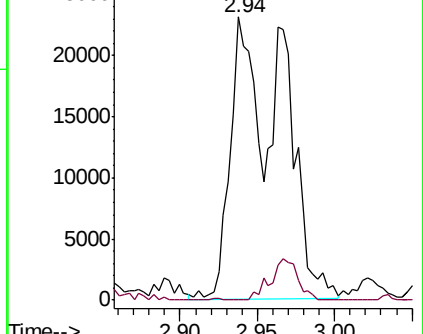
51 100

67 8.1 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.272 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034218.D

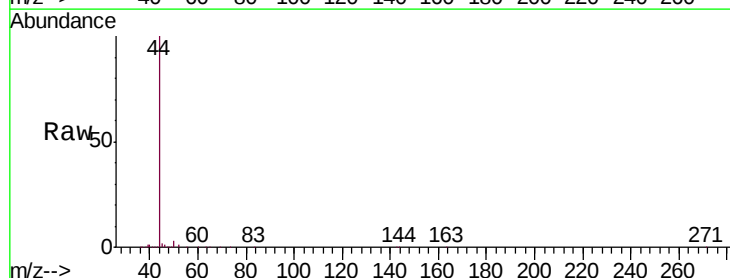
Acq: 2 Oct 2019 19:51

Tgt Ion: 50 Resp: 17242

Ion Ratio Lower Upper

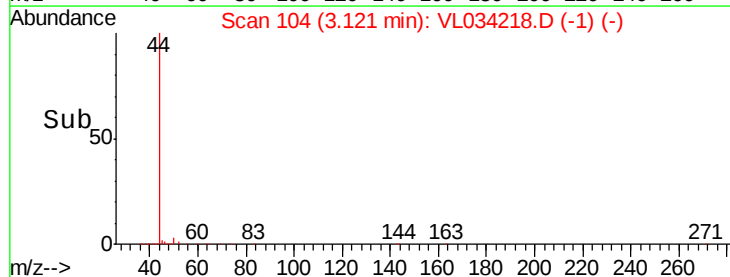
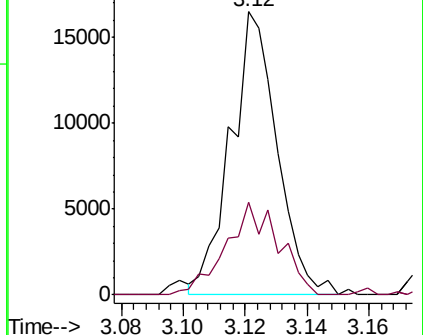
50 100

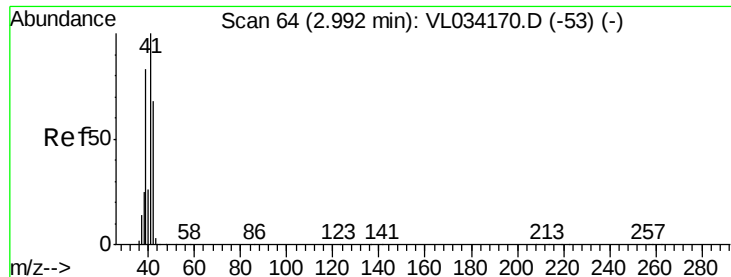
52 32.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 30.125 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

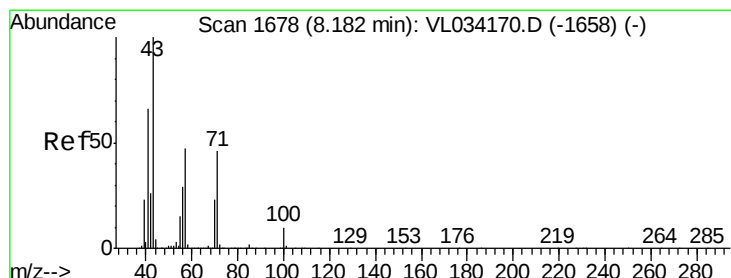
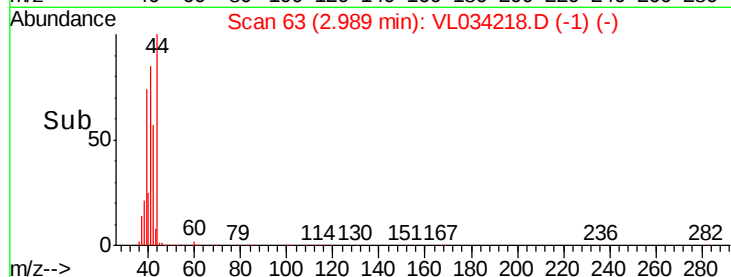
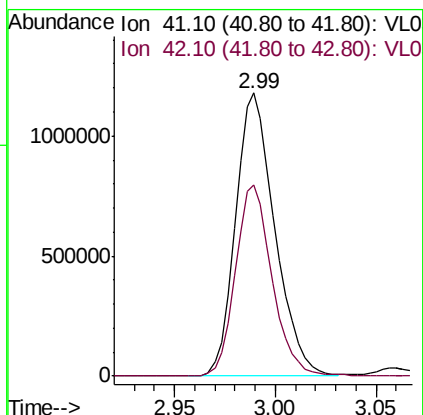
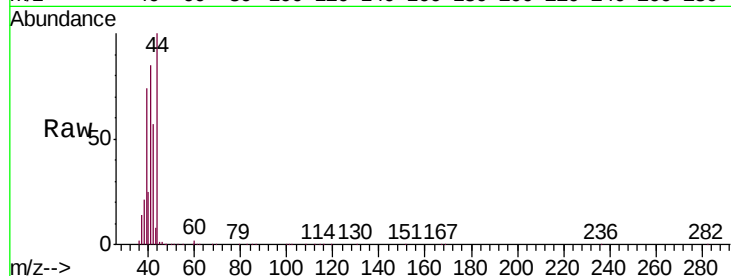
SV-1

Tgt Ion: 41 Resp: 1604647

Ion Ratio Lower Upper

41 100

42 63.4 55.8 83.6



#10

Heptane

Concen: 0.866 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034218.D

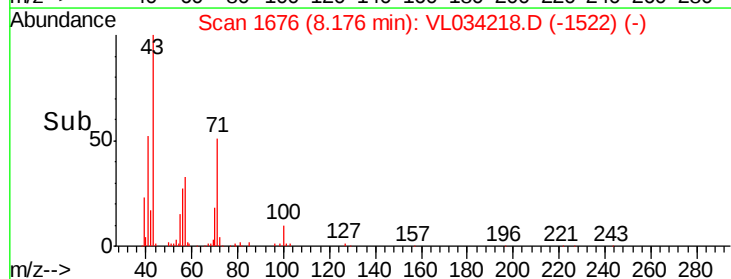
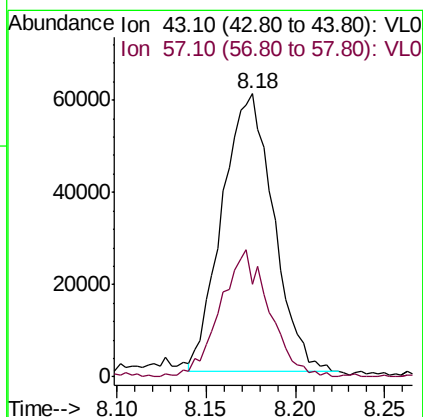
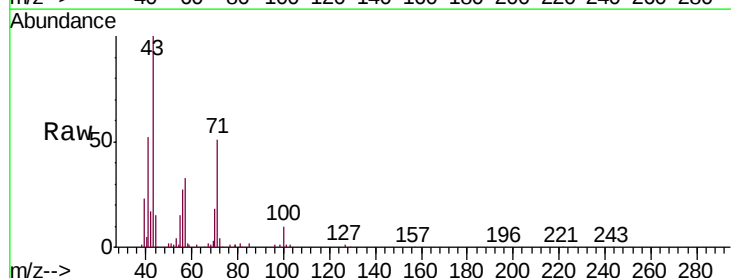
Acq: 2 Oct 2019 19:51

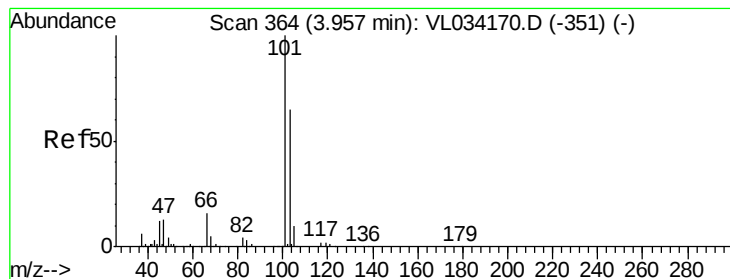
Tgt Ion: 43 Resp: 120261

Ion Ratio Lower Upper

43 100

57 43.8 37.5 56.3





#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

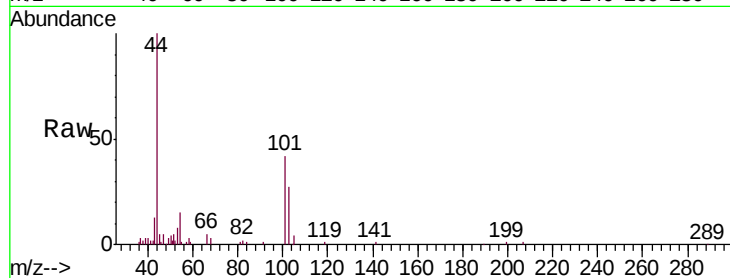
SV-1

Tgt Ion: 101 Resp: 31657

Ion Ratio Lower Upper

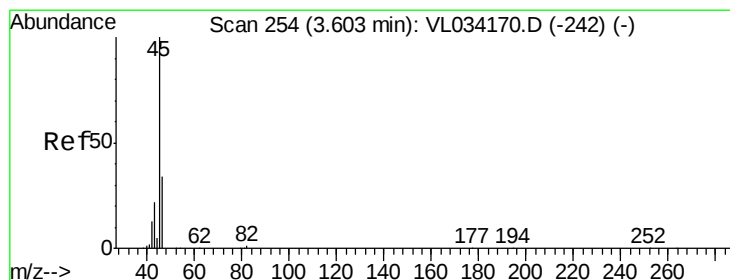
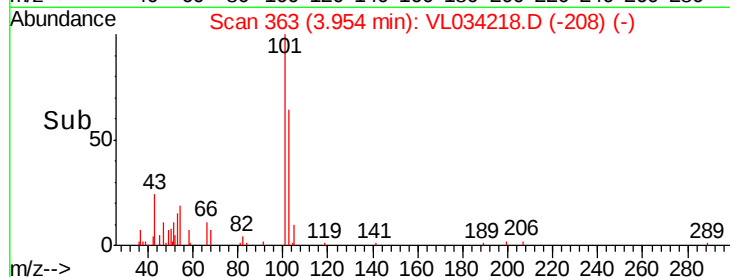
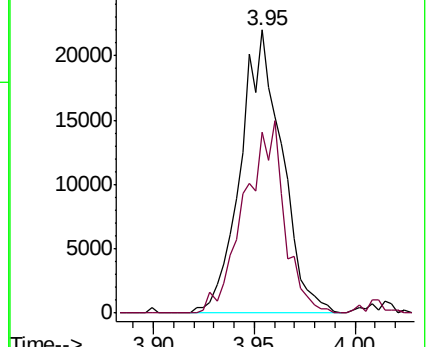
101 100

103 63.8 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 15.603 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034218.D

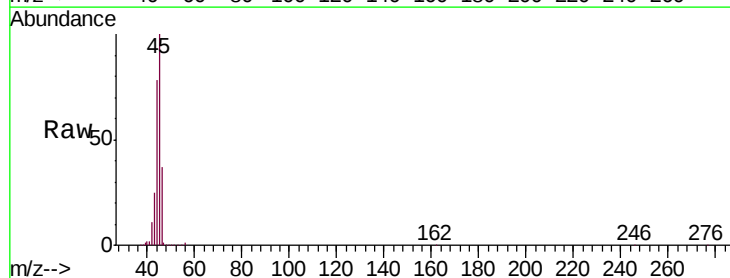
Acq: 2 Oct 2019 19:51

Tgt Ion: 45 Resp: 201255

Ion Ratio Lower Upper

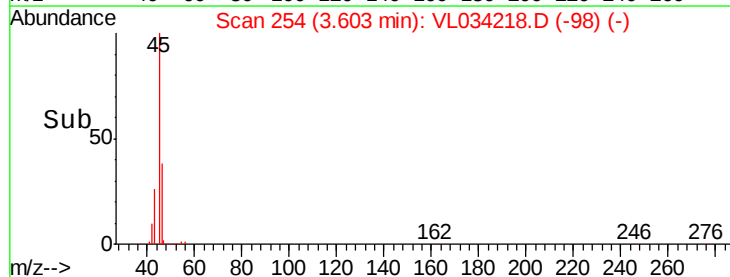
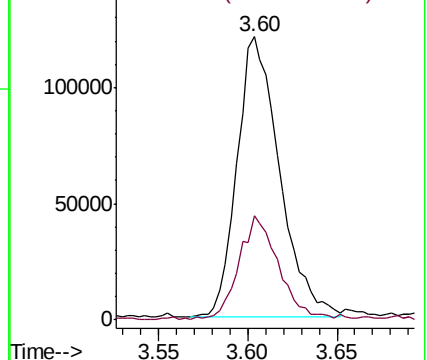
45 100

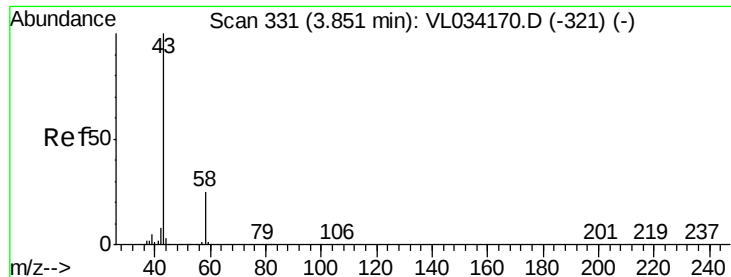
46 34.9 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 27.566 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

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ClientSampleId :

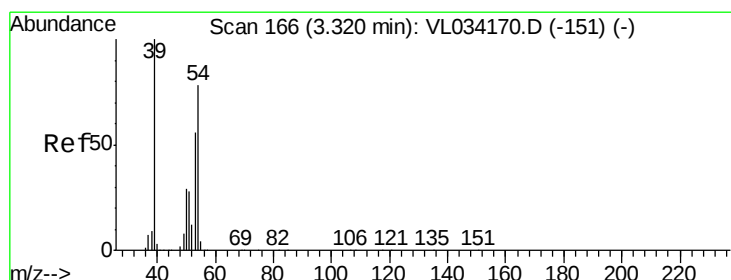
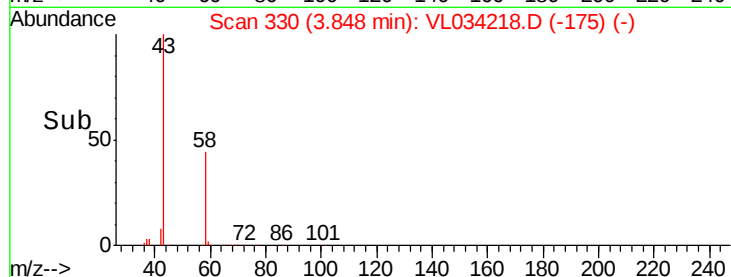
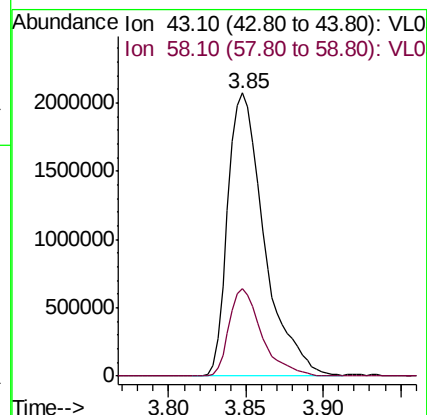
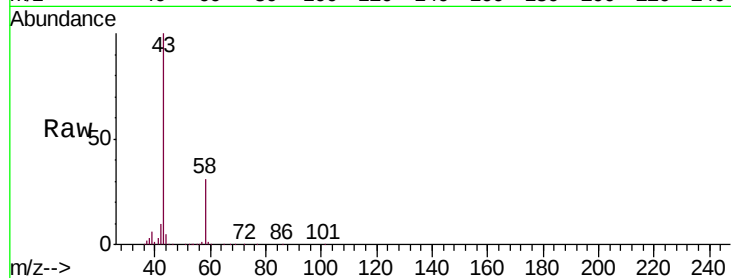
SV-1

Tgt Ion: 43 Resp: 3402003

Ion Ratio Lower Upper

43 100

58 27.7 20.5 30.7



#16

1,3-Butadiene

Concen: 4.469 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VL034218.D

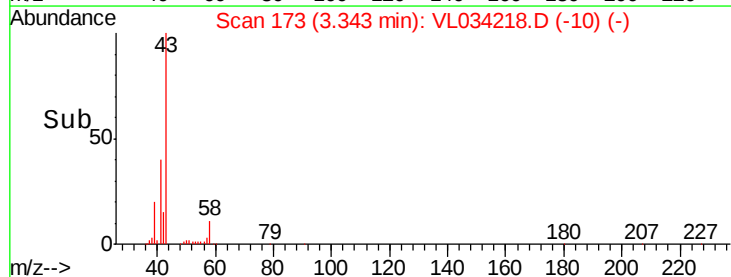
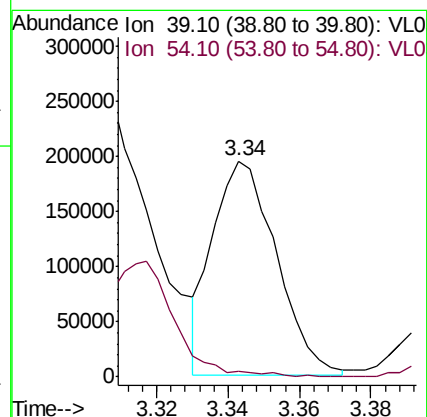
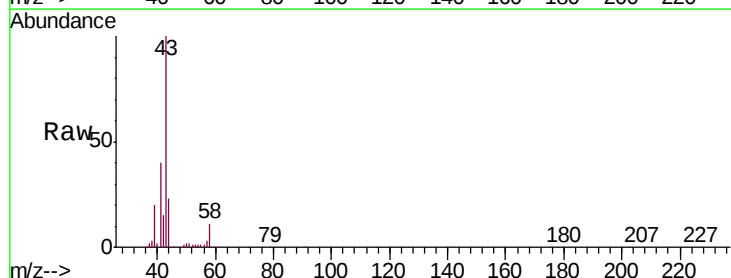
Acq: 2 Oct 2019 19:51

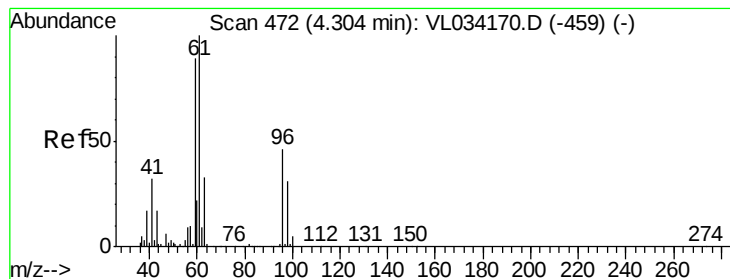
Tgt Ion: 39 Resp: 240707

Ion Ratio Lower Upper

39 100

54 68.0 63.4 95.0



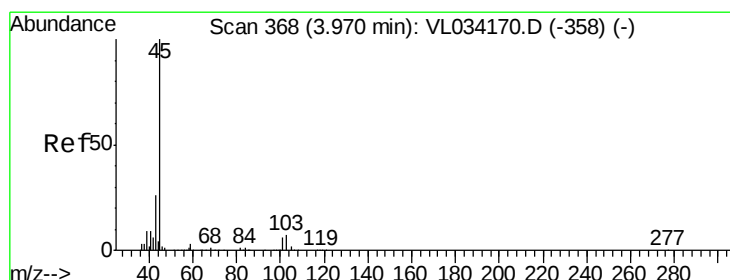
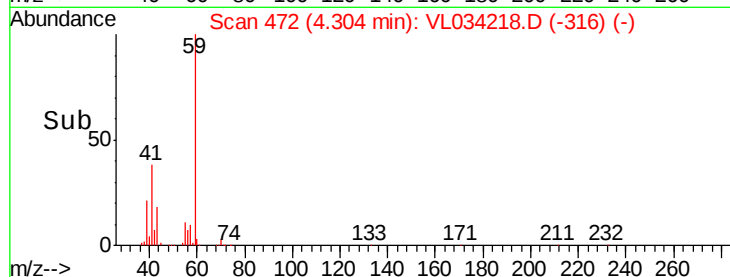
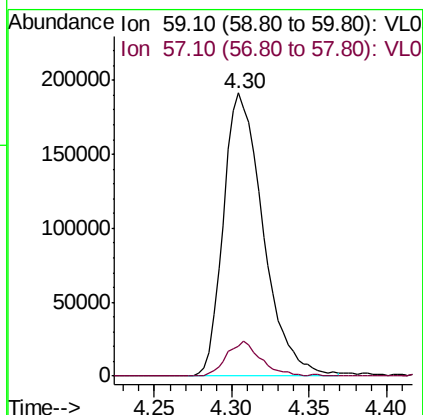
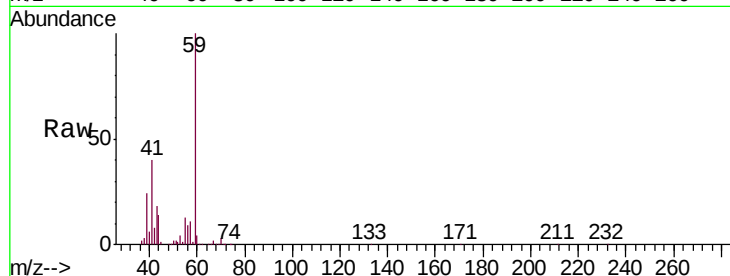


#17

tert-Butyl alcohol  
 Concen: 4.346 ppbv  
 RT: 4.30 min Scan# 472  
 Delta R.T. 0.00 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Instrument :  
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 ClientSampleId :  
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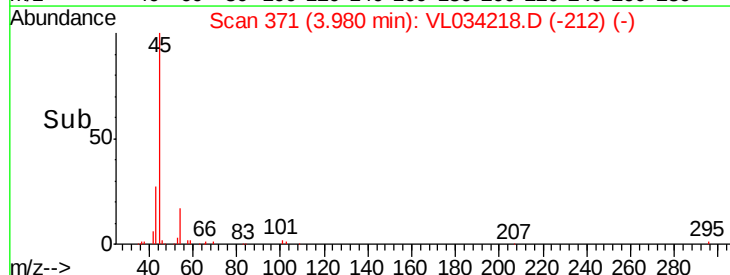
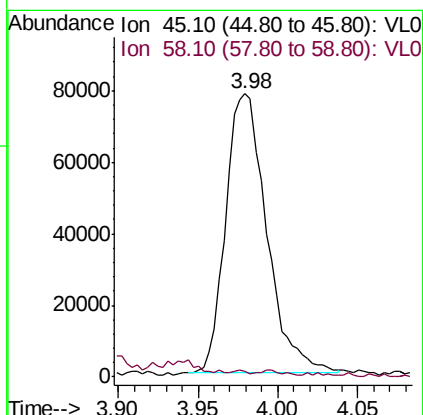
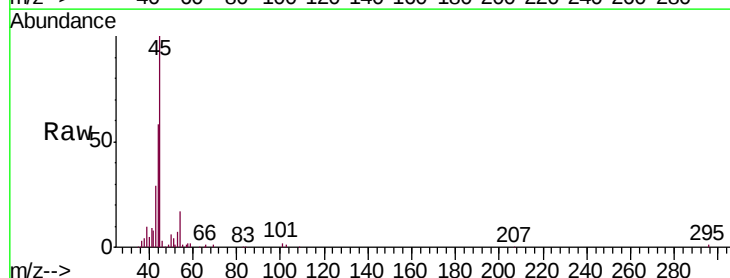
Tgt Ion: 59 Resp: 339872  
 Ion Ratio Lower Upper  
 59 100  
 57 11.0 8.7 13.1

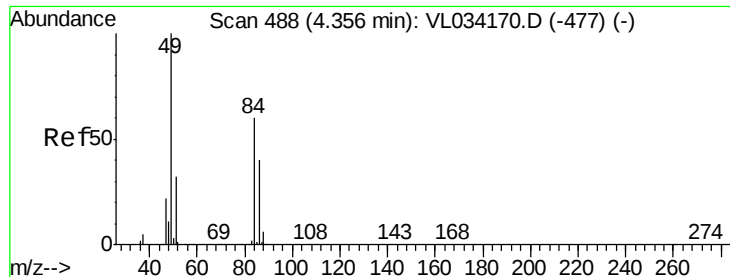


#19

Isopropyl Alcohol  
 Concen: 1.799 ppbv  
 RT: 3.98 min Scan# 371  
 Delta R.T. 0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Tgt Ion: 45 Resp: 136527  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 1.4 2.0#

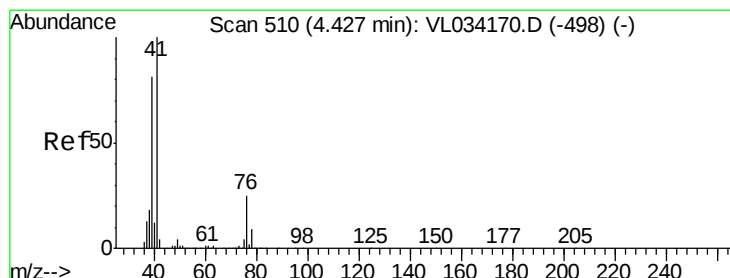
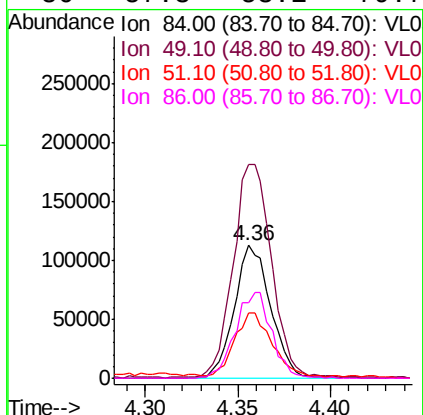
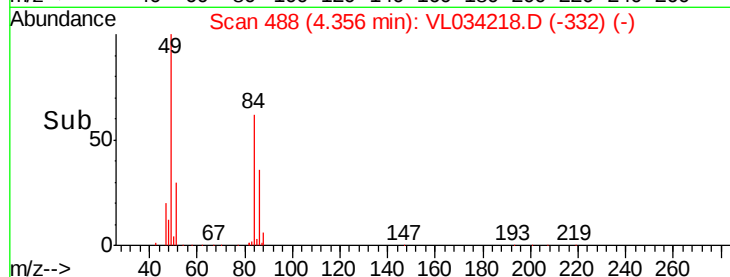
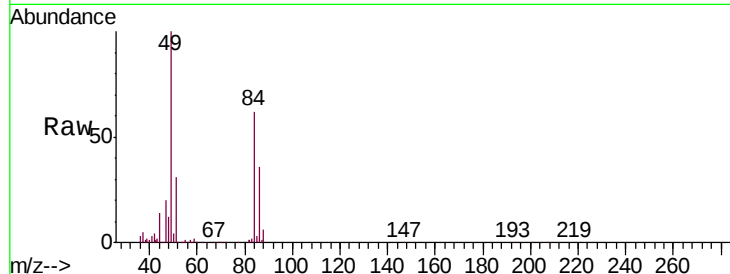




#20  
Methylene Chloride  
Concen: 4.318 ppbv  
RT: 4.36 min Scan# 488  
Delta R.T. -0.00 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

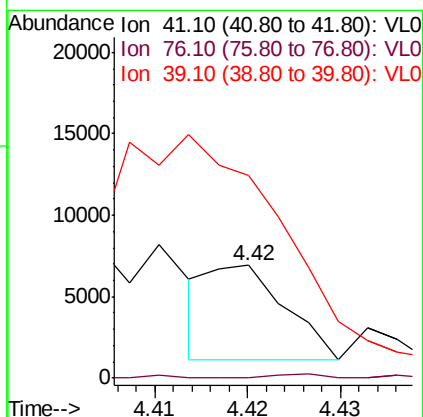
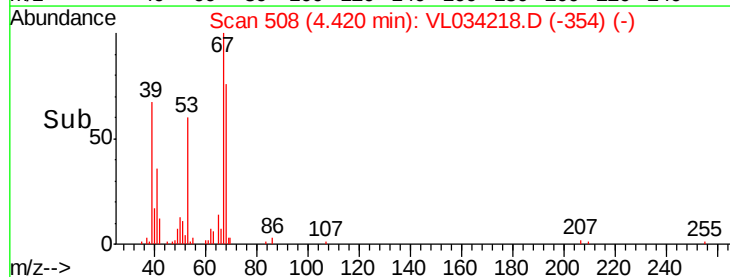
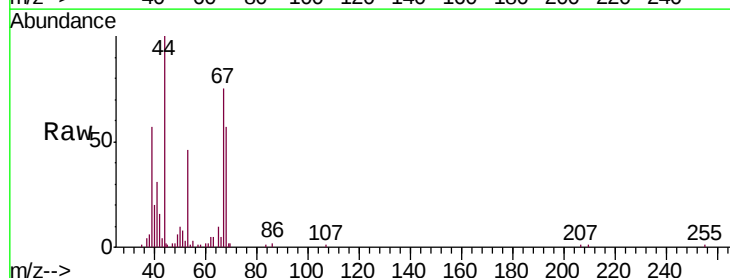
Instrument :  
MSVOA\_L  
ClientSampled :  
SV-1

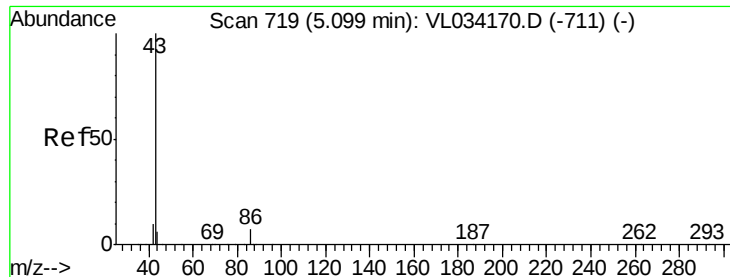
Tgt Ion: 84 Resp: 153651  
Ion Ratio Lower Upper  
84 100  
49 160.4 133.8 200.8  
51 47.8 43.6 65.4  
86 57.3 53.1 79.7



#21  
Allyl Chloride  
Concen: 0.047 ppbv  
RT: 4.42 min Scan# 508  
Delta R.T. -0.01 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

Tgt Ion: 41 Resp: 3287  
Ion Ratio Lower Upper  
41 100  
76 0.0 21.8 32.6#  
39 550.1 64.8 97.2#





#23

Vinyl Acetate

Concen: 0.947 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.02 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

Tgt Ion: 43 Resp: 172174

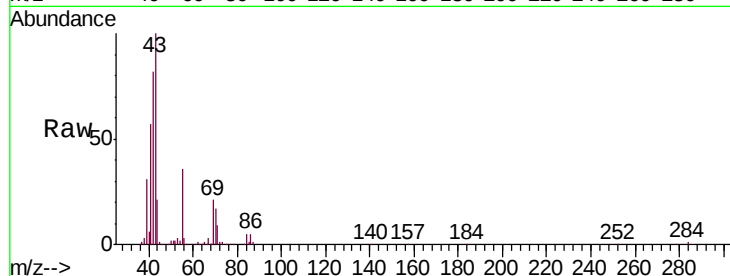
Ion Ratio Lower Upper

43 100

86 5.1 5.1 7.7

42 82.0 8.6 12.8#

44 1.2 4.7 7.1#

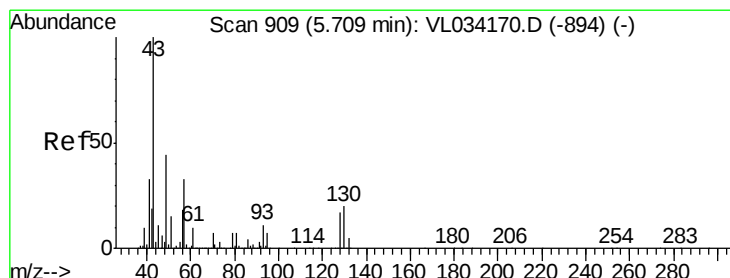
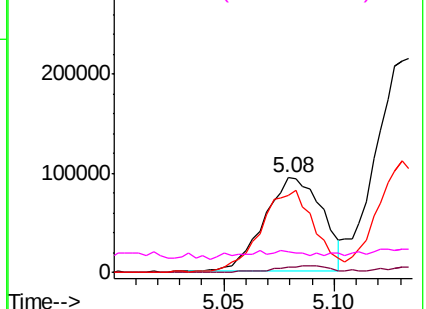
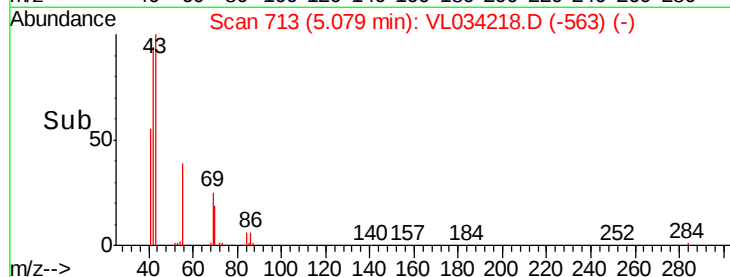


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.255 ppbv

RT: 5.72 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Tgt Ion: 43 Resp: 526180

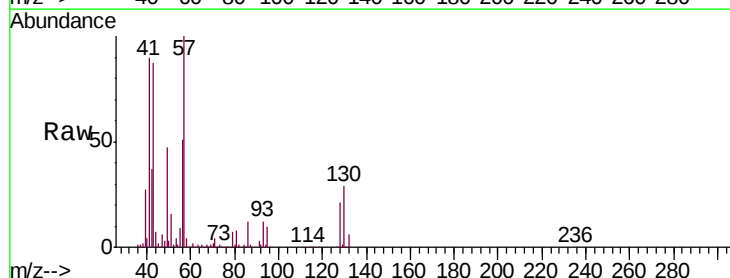
Ion Ratio Lower Upper

43 100

45 4.9 8.4 12.6#

61 3.5 7.2 10.8#

70 3.5 5.3 7.9#

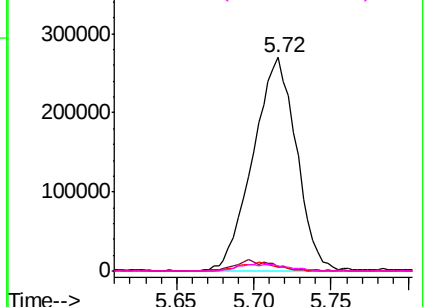
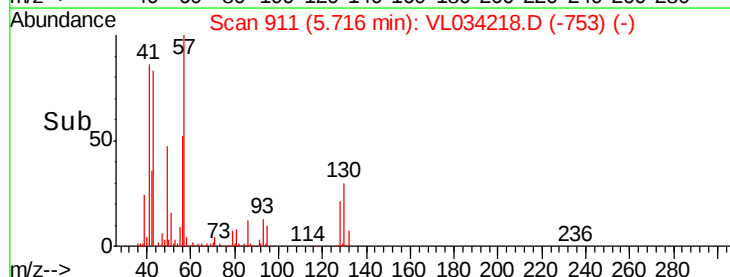


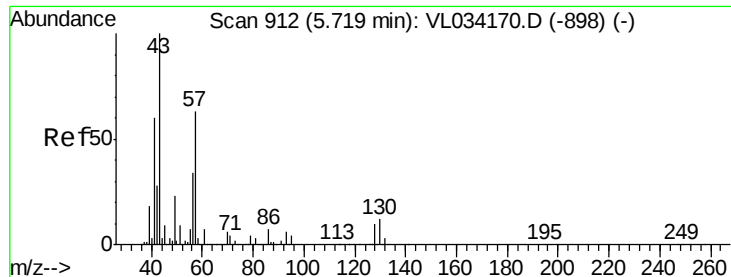
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

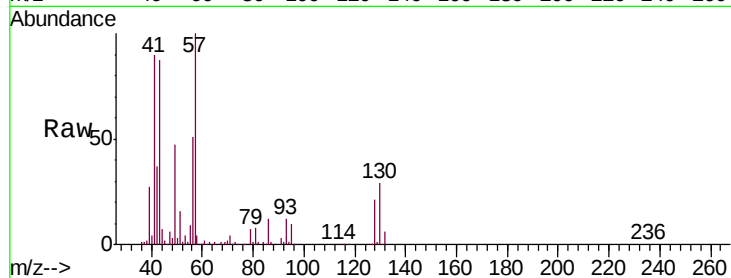




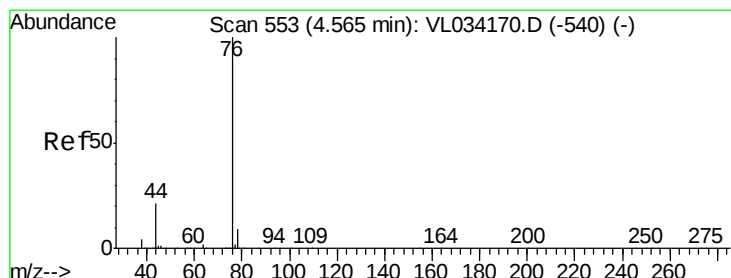
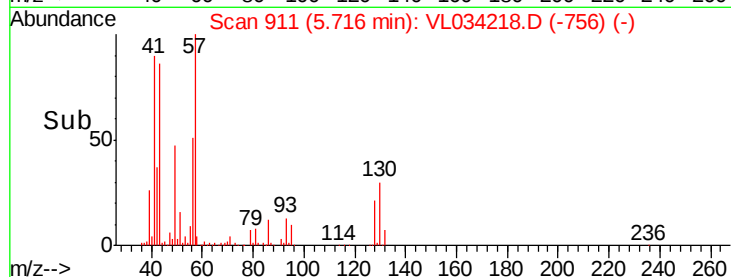
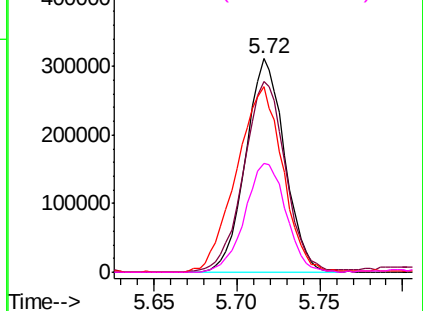
#26  
Hexane  
Concen: 5.243 ppbv  
RT: 5.72 min Scan# 911  
Delta R.T. -0.00 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 57 Resp: 508973  
Ion Ratio Lower Upper  
57 100  
41 96.3 78.5 117.7  
43 105.9 189.5 284.3#  
56 54.1 43.2 64.8

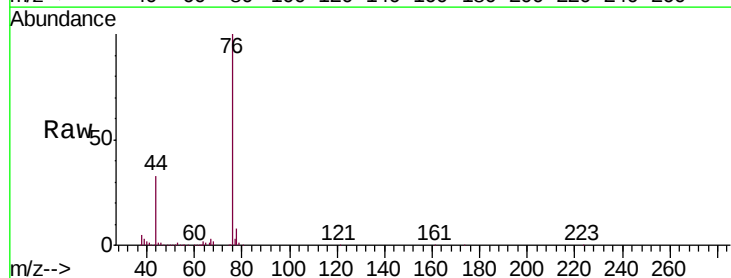


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

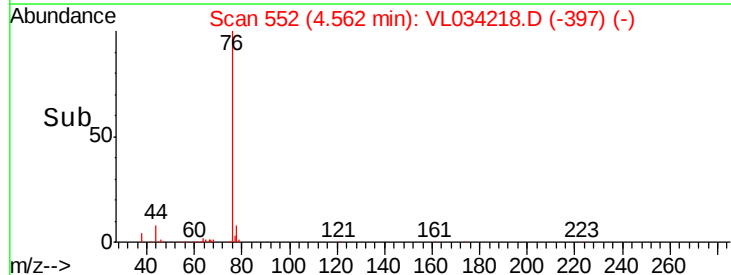
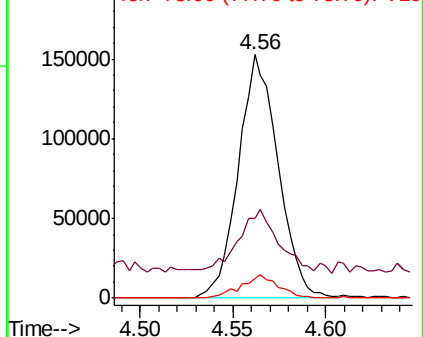


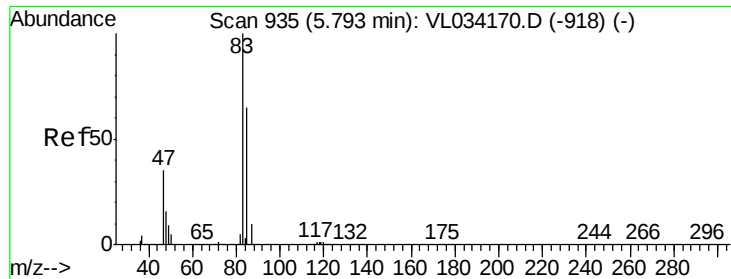
#27  
Carbon Disulfide  
Concen: 2.543 ppbv  
RT: 4.56 min Scan# 552  
Delta R.T. -0.00 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

Tgt Ion: 76 Resp: 227648  
Ion Ratio Lower Upper  
76 100  
44 27.6 17.6 26.4#  
78 9.2 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0

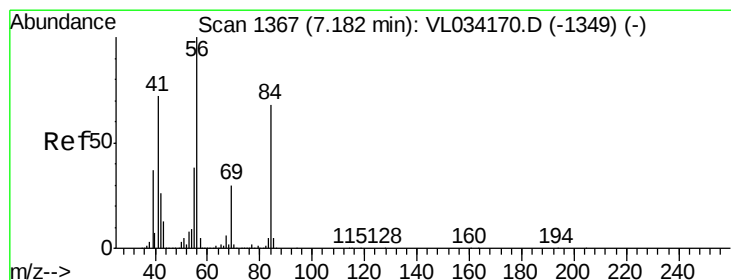
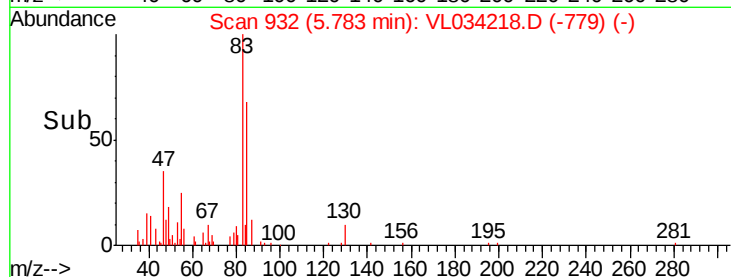
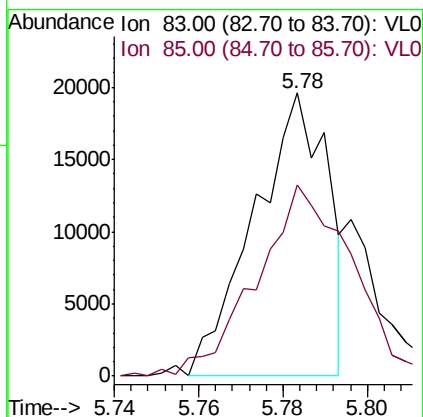
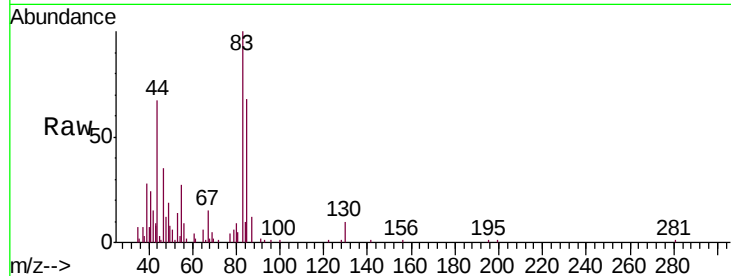




#29  
Chloroform  
Concen: 0.172 ppbv  
RT: 5.78 min Scan# 932  
Delta R.T. -0.01 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

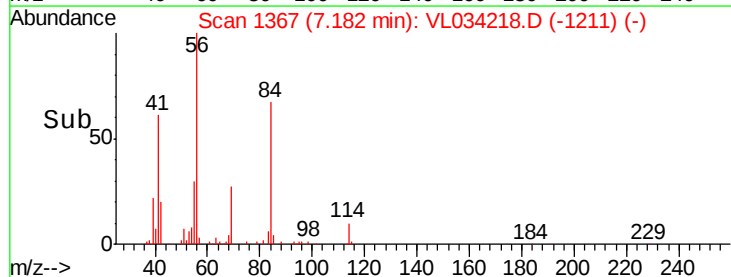
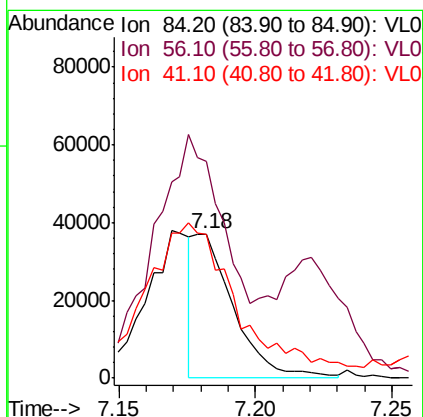
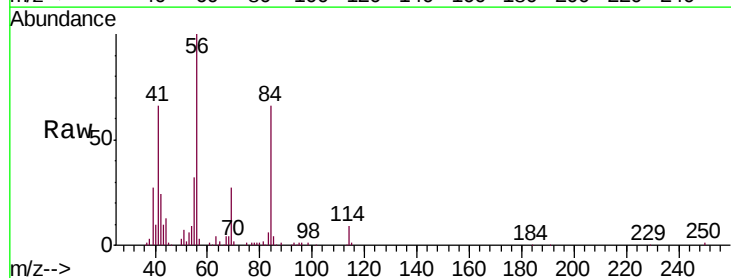
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

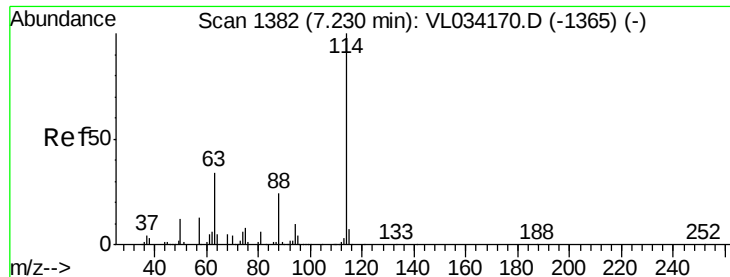
Tgt Ion: 83 Resp: 23825  
Ion Ratio Lower Upper  
83 100  
85 61.4 52.3 78.5



#30  
Cyclohexane  
Concen: 0.520 ppbv  
RT: 7.18 min Scan# 1367  
Delta R.T. 0.00 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

Tgt Ion: 84 Resp: 36433  
Ion Ratio Lower Upper  
84 100  
56 353.2 126.2 189.2#  
41 264.7 85.8 128.8#

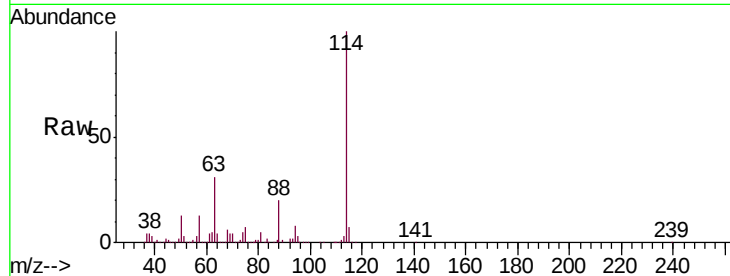




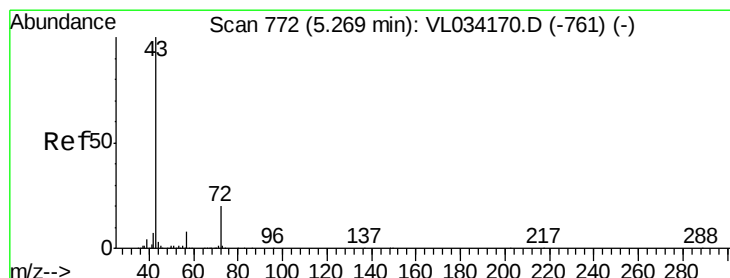
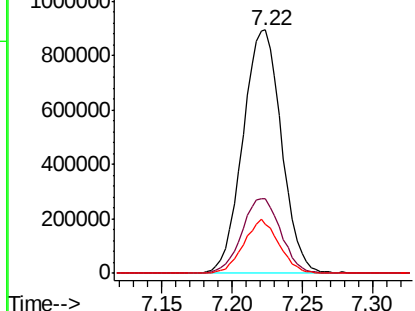
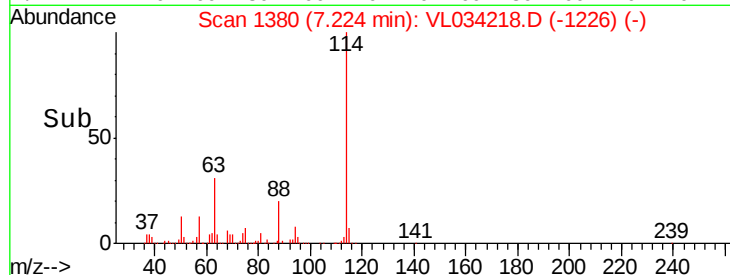
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.22 min Scan# 1380  
 Delta R.T. -0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

Tgt Ion:114 Resp: 1716984  
 Ion Ratio Lower Upper  
 114 100  
 63 30.9 27.8 41.6  
 88 20.2 17.1 25.7

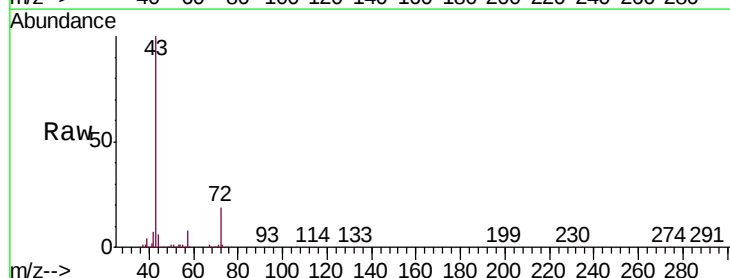


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

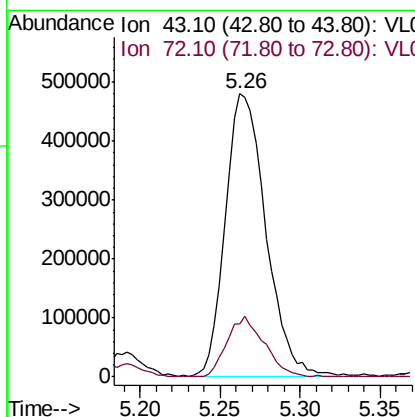
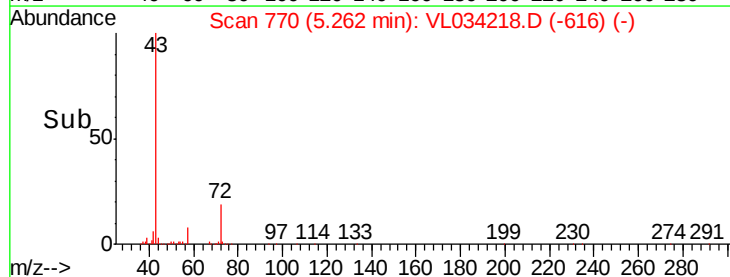


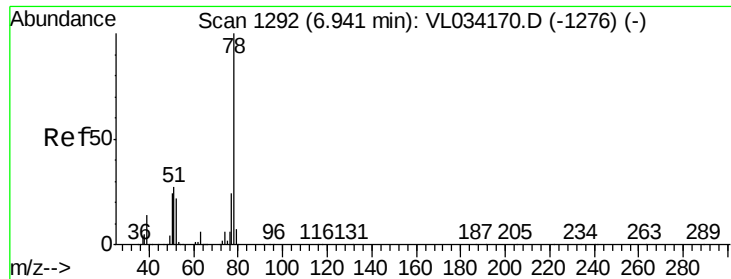
#34  
 2-Butanone  
 Concen: 4.715 ppbv  
 RT: 5.26 min Scan# 770  
 Delta R.T. -0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Tgt Ion: 43 Resp: 826695  
 Ion Ratio Lower Upper  
 43 100  
 72 20.0 15.0 22.6



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





#36

Benzene

Concen: 0.585 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

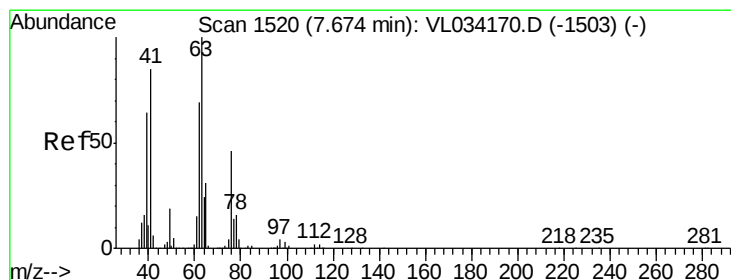
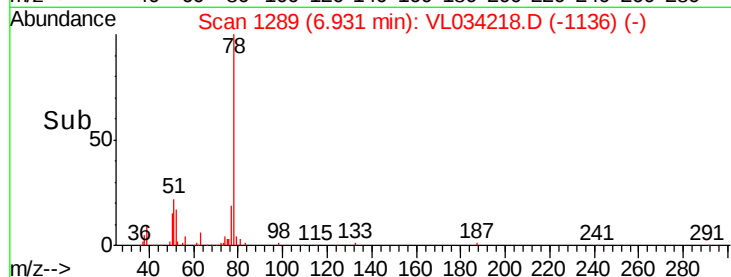
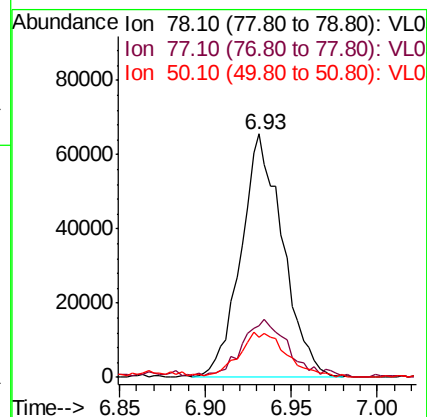
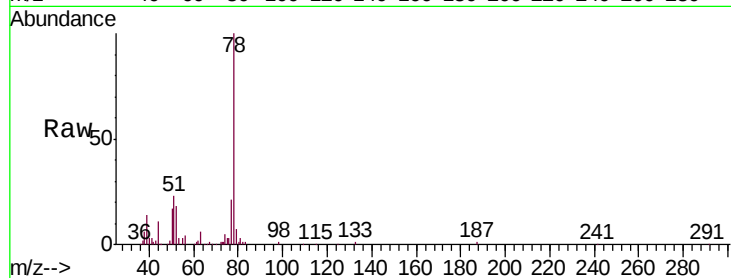
Tgt Ion: 78 Resp: 110933

Ion Ratio Lower Upper

78 100

77 20.5 19.0 28.4

50 15.6 18.9 28.3#



#39

1,2-Dichloropropane

Concen: 6.168 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.45 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

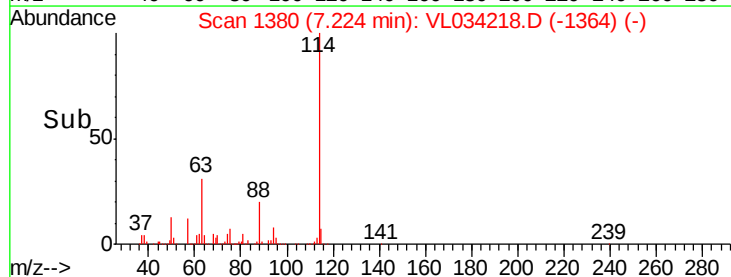
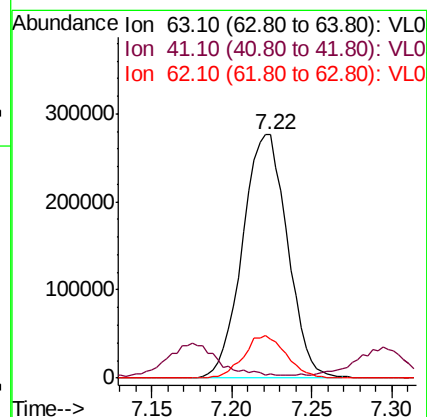
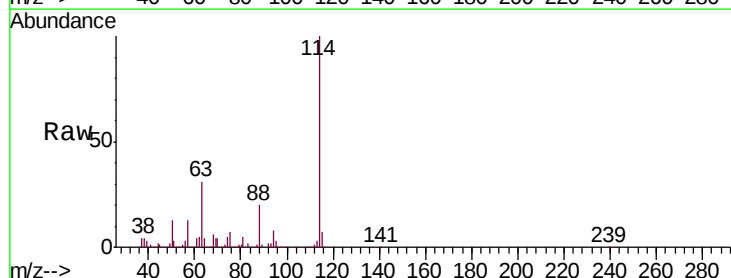
Tgt Ion: 63 Resp: 525503

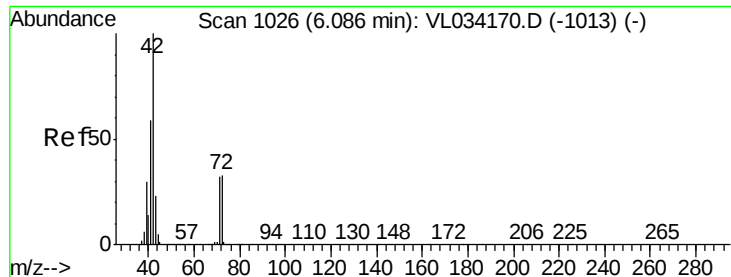
Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

62 15.7 55.4 83.2#





#41

Tetrahydrofuran

Concen: 0.098 ppbv

RT: 6.09 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampled :

SV-1

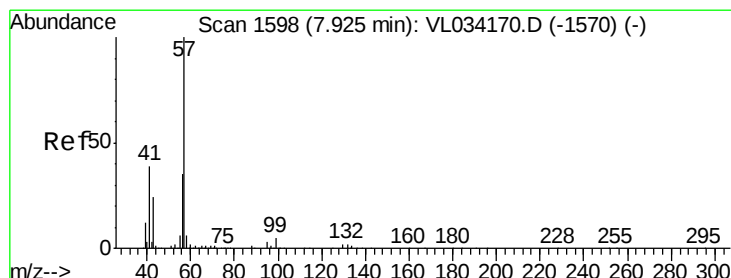
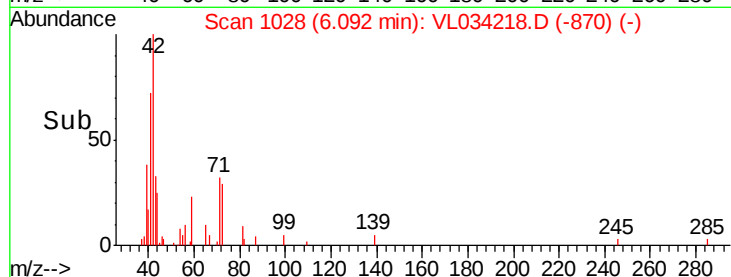
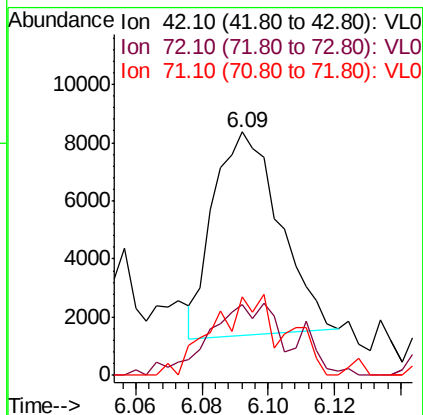
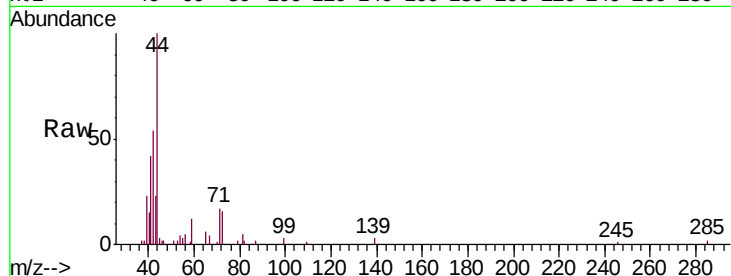
Tgt Ion: 42 Resp: 9722

Ion Ratio Lower Upper

42 100

72 44.1 26.6 40.0#

71 44.9 25.1 37.7#



#44

2,2,4-Trimethylpentane

Concen: 0.229 ppbv

RT: 7.92 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

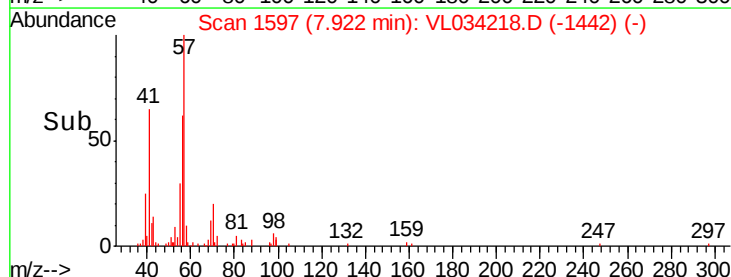
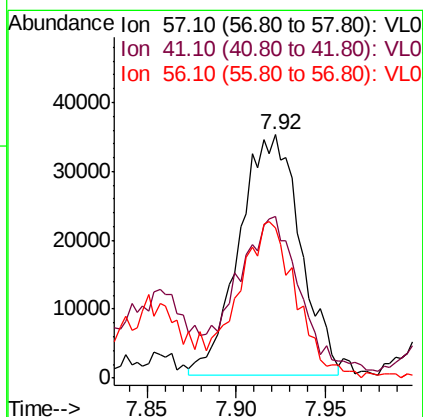
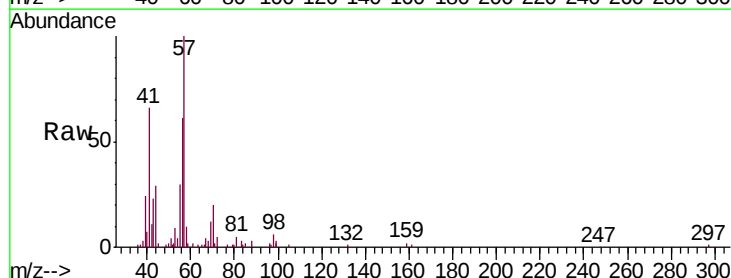
Tgt Ion: 57 Resp: 83560

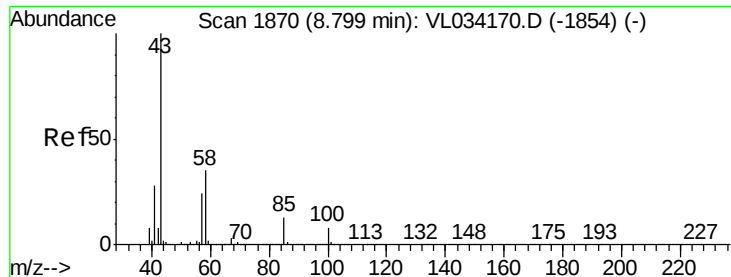
Ion Ratio Lower Upper

57 100

41 69.0 29.8 44.6#

56 63.5 25.9 38.9#

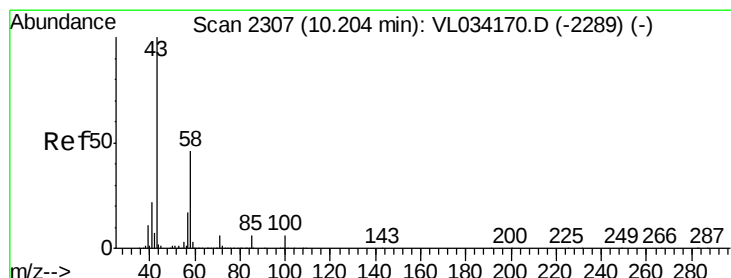
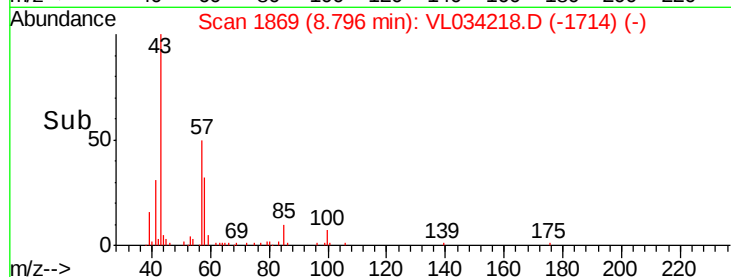
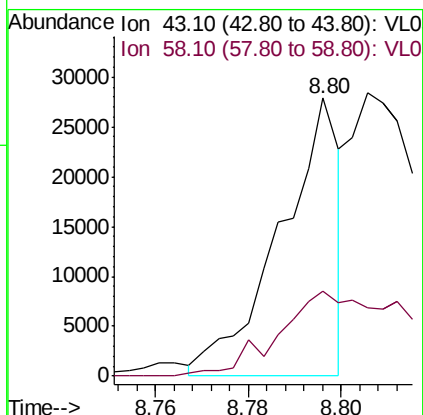
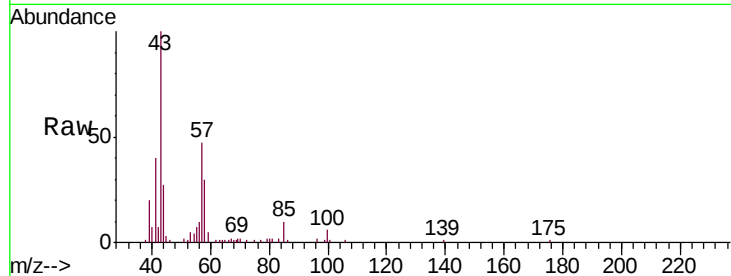




#50  
 4-Methyl-2-Pentanone  
 Concen: 0.097 ppbv  
 RT: 8.80 min Scan# 1869  
 Delta R.T. -0.00 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

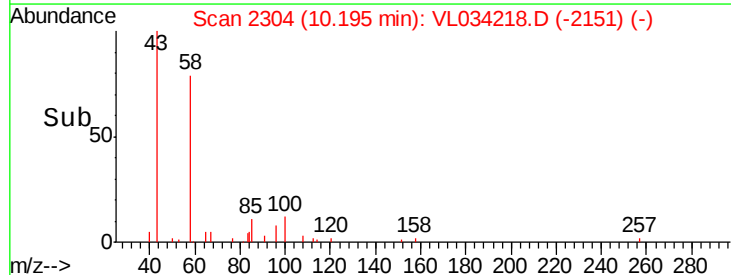
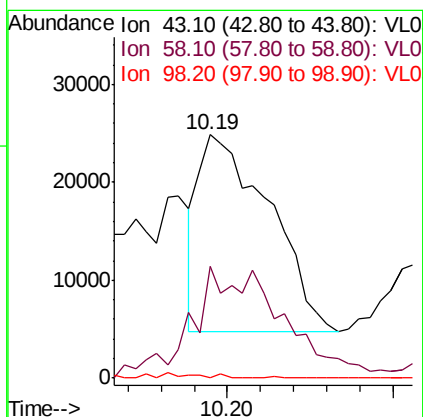
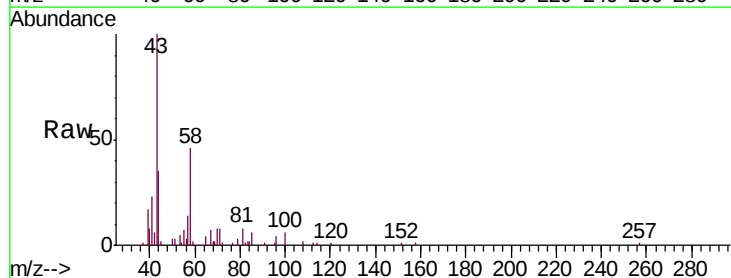
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

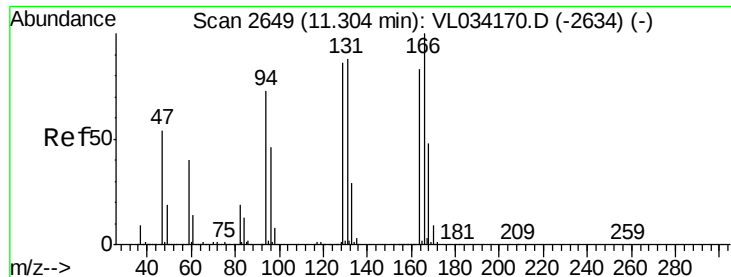
Tgt Ion: 43 Resp: 24831  
 Ion Ratio Lower Upper  
 43 100  
 58 78.2 27.6 41.4#



#51  
 2-Hexanone  
 Concen: 0.139 ppbv  
 RT: 10.19 min Scan# 2304  
 Delta R.T. -0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Tgt Ion: 43 Resp: 29778  
 Ion Ratio Lower Upper  
 43 100  
 58 74.4 36.2 54.4#  
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 7.892 ppbv

RT: 11.29 min Scan# 2646

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

Tgt Ion:164 Resp: 494447

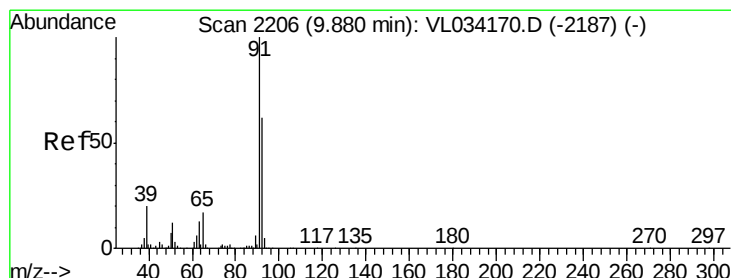
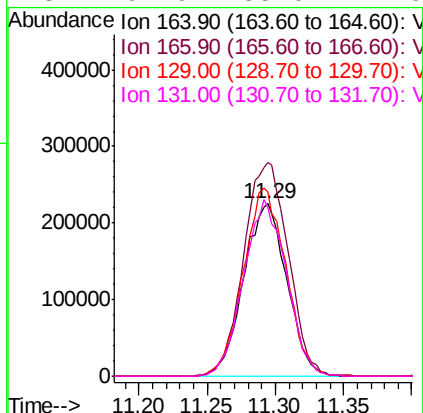
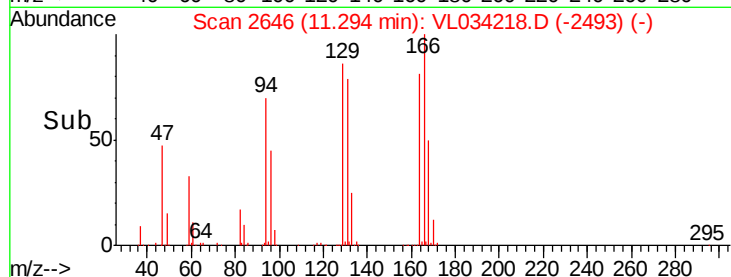
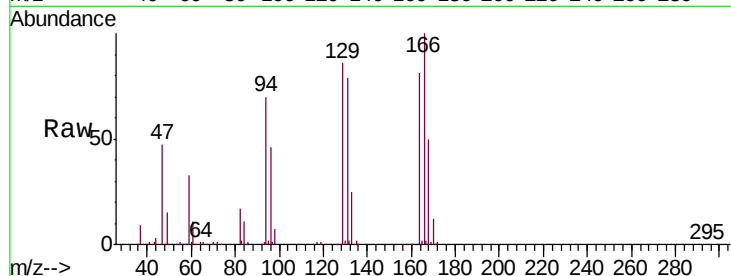
Ion Ratio Lower Upper

164 100

166 123.5 96.7 145.1

129 106.3 82.8 124.2

131 97.9 85.0 127.6



#53

Toluene

Concen: 4.203 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034218.D

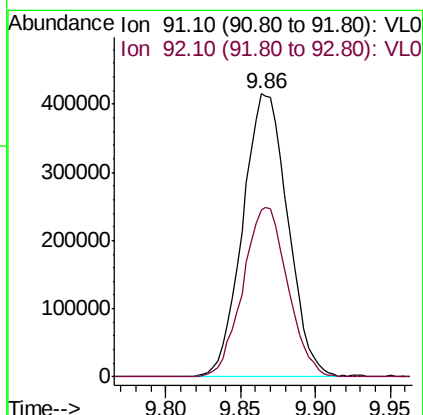
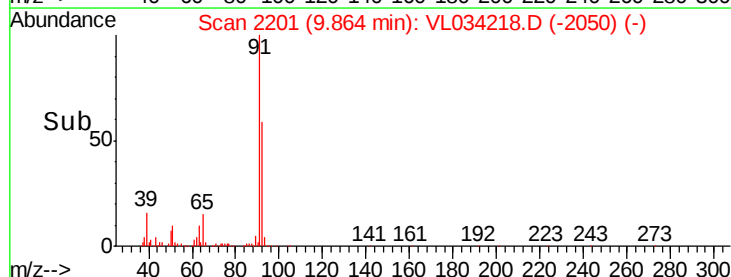
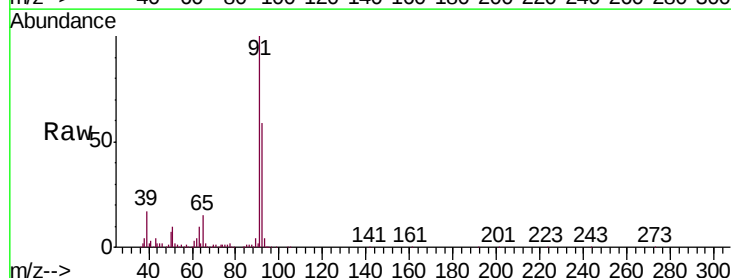
Acq: 2 Oct 2019 19:51

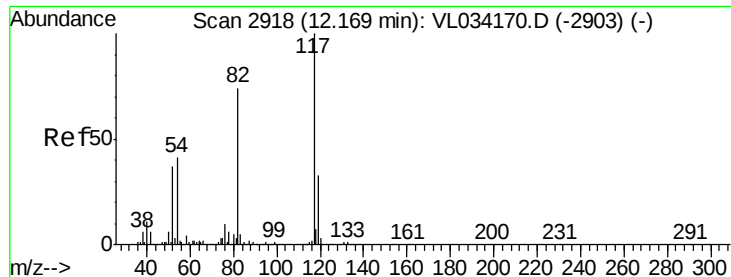
Tgt Ion: 91 Resp: 871042

Ion Ratio Lower Upper

91 100

92 59.5 49.0 73.6

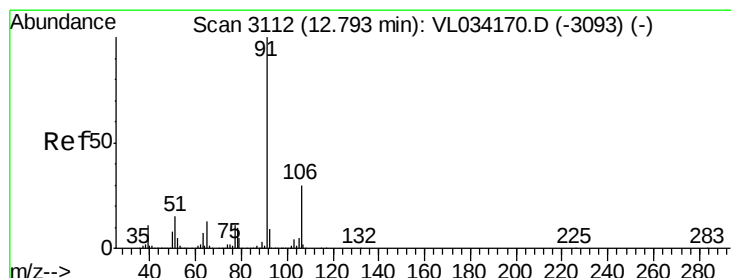
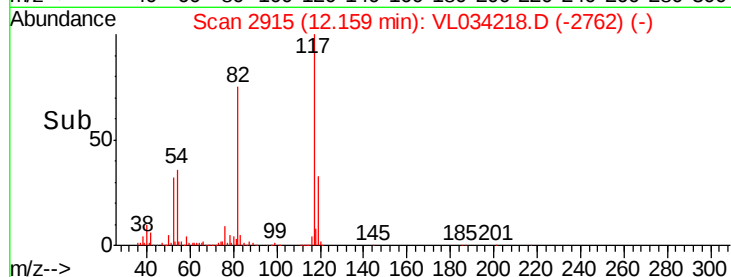
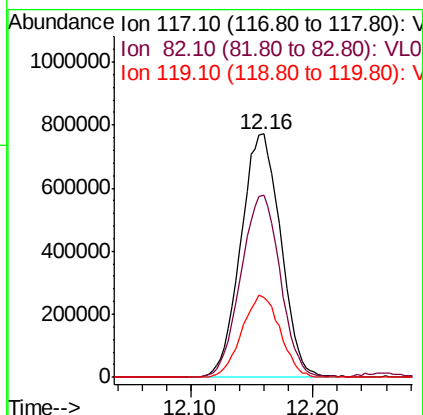
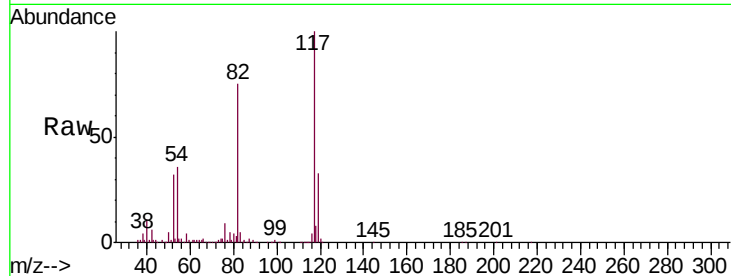




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.16 min Scan# 2915  
Delta R.T. -0.01 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

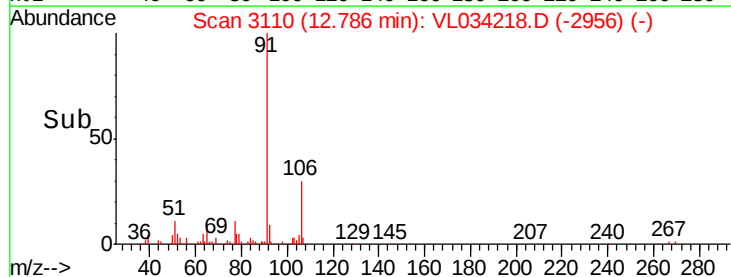
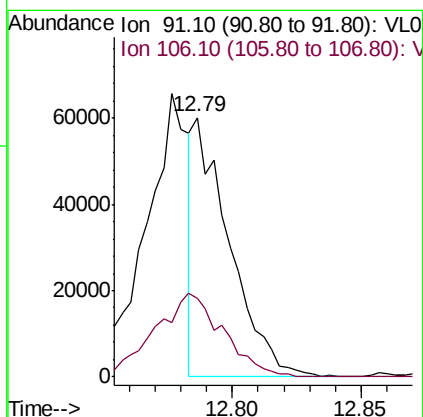
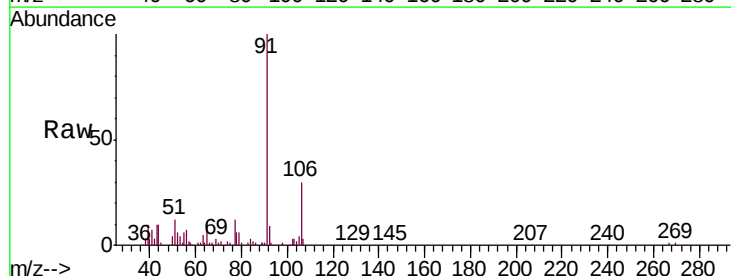
Instrument :  
MSVOA\_L  
ClientSampled :  
SV-1

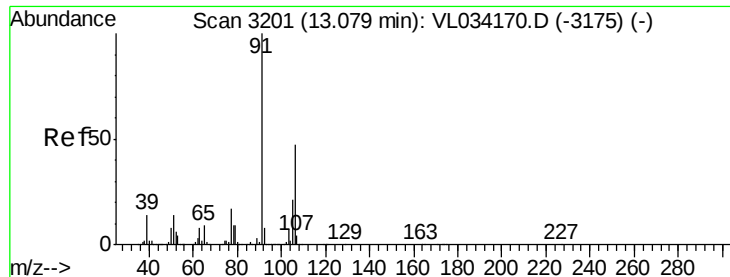
Tgt Ion:117 Resp: 1741449  
Ion Ratio Lower Upper  
117 100  
82 74.0 58.2 87.4  
119 32.5 23.7 35.5



#58  
Ethyl Benzene  
Concen: 0.206 ppbv  
RT: 12.79 min Scan# 3110  
Delta R.T. -0.01 min  
Lab File: VL034218.D  
Acq: 2 Oct 2019 19:51

Tgt Ion: 91 Resp: 57888  
Ion Ratio Lower Upper  
91 100  
106 30.5 24.2 36.4





#59

m/p-Xylene

Concen: 1.495 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

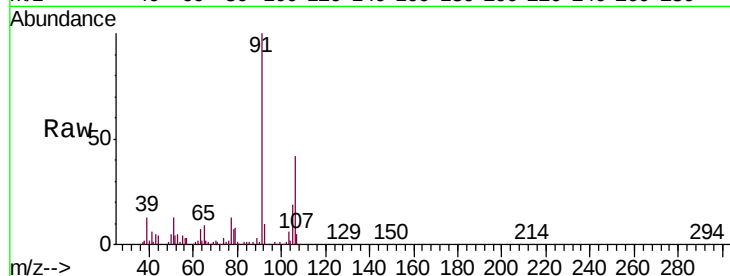
SV-1

Tgt Ion: 91 Resp: 347877

Ion Ratio Lower Upper

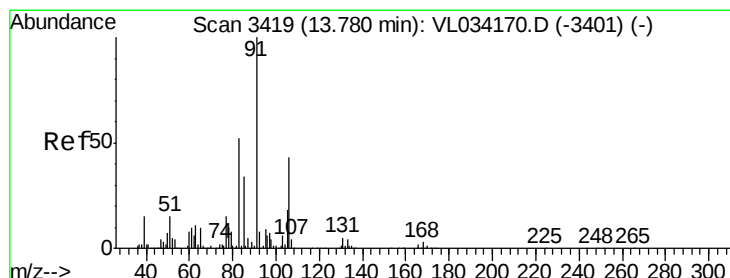
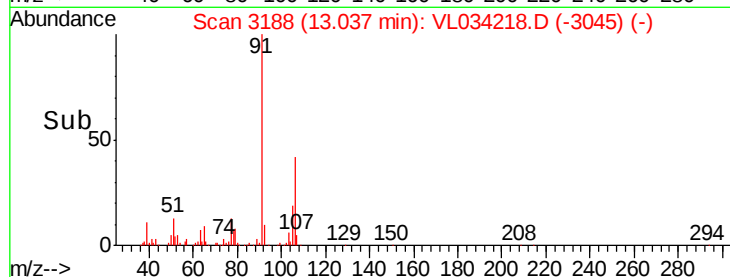
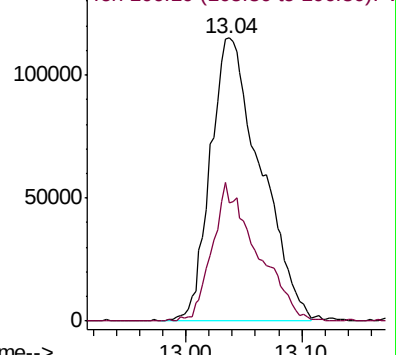
91 100

106 43.5 35.5 53.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.280 ppbv

RT: 13.77 min Scan# 3416

Delta R.T. -0.01 min

Lab File: VL034218.D

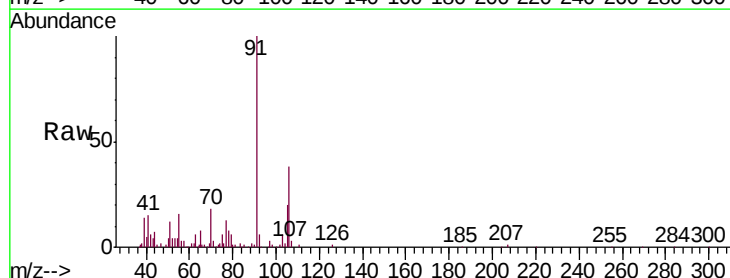
Acq: 2 Oct 2019 19:51

Tgt Ion: 91 Resp: 65068

Ion Ratio Lower Upper

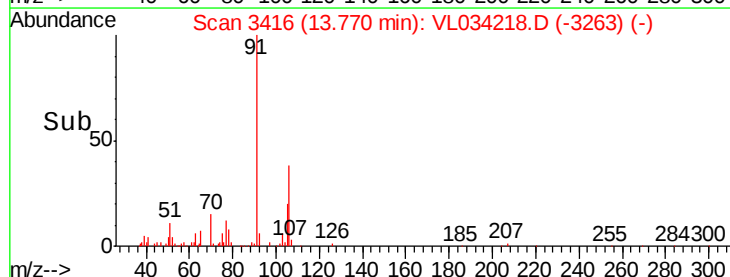
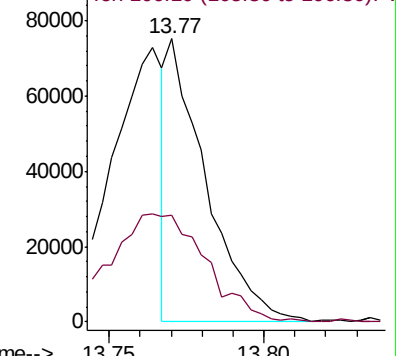
91 100

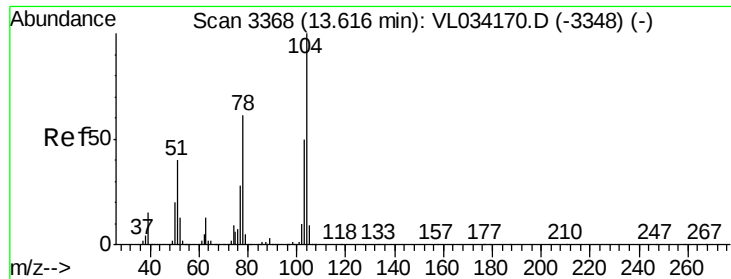
106 0.0 21.2 63.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 0.072 ppbv

RT: 13.61 min Scan# 3365

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

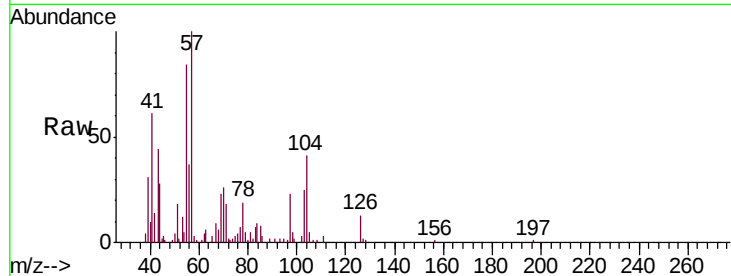
Tgt Ion:104 Resp: 11966

Ion Ratio Lower Upper

104 100

78 0.0 49.7 74.5#

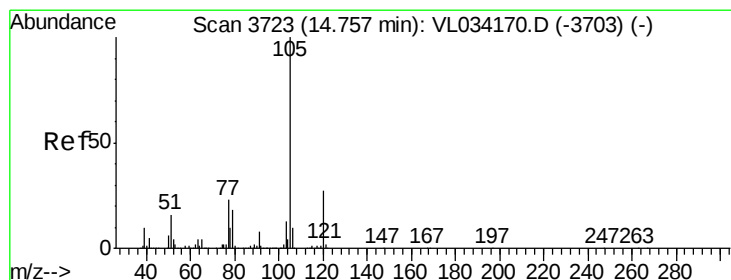
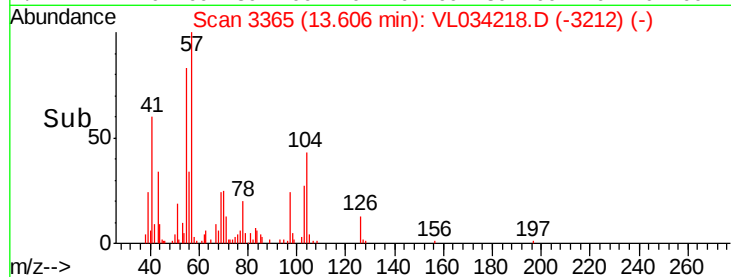
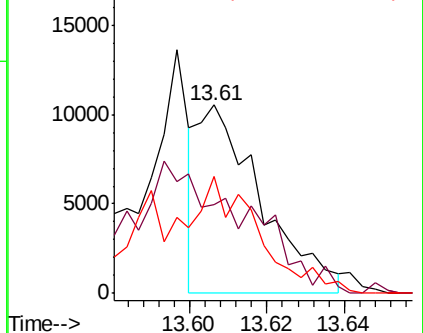
103 104.2 38.4 57.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.030 ppbv

RT: 14.74 min Scan# 3719

Delta R.T. -0.01 min

Lab File: VL034218.D

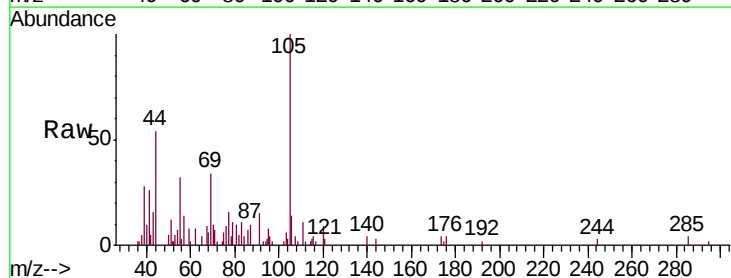
Acq: 2 Oct 2019 19:51

Tgt Ion:105 Resp: 9081

Ion Ratio Lower Upper

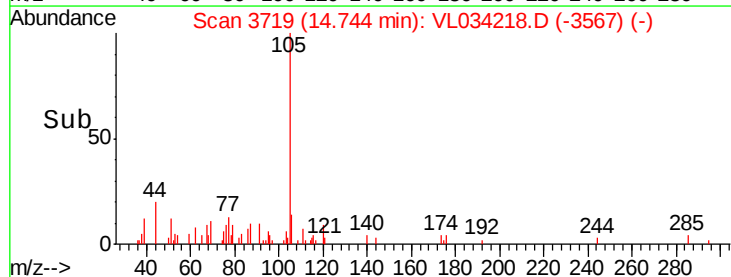
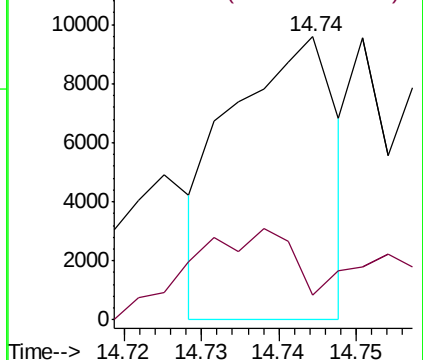
105 100

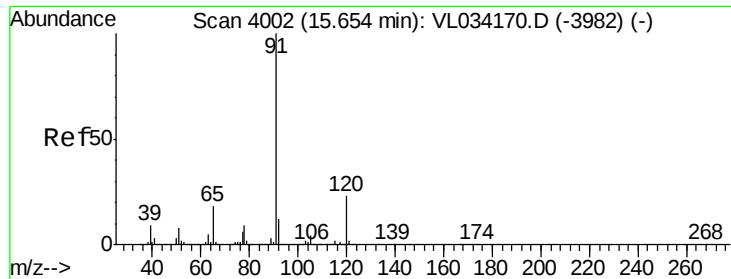
120 61.9 20.7 31.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.041 ppbv

RT: 15.64 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampled :

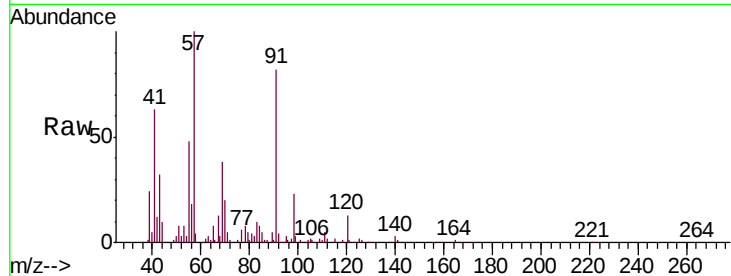
SV-1

Tgt Ion:120 Resp: 3094

Ion Ratio Lower Upper

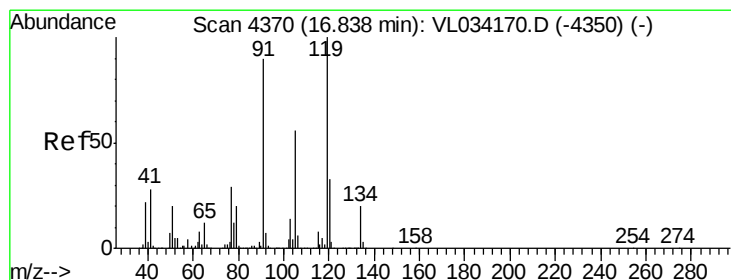
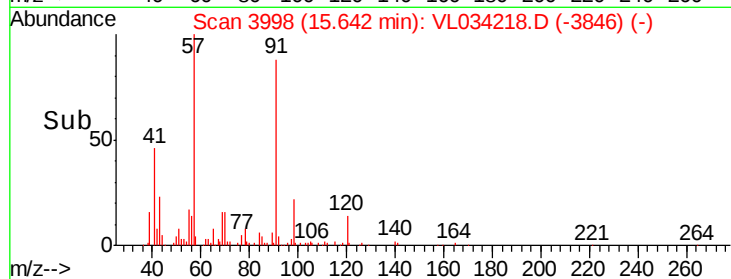
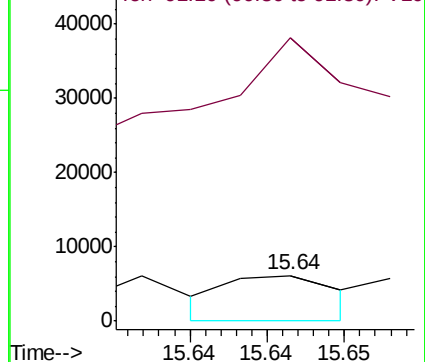
120 100

91 2424.5 378.2 567.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.035 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

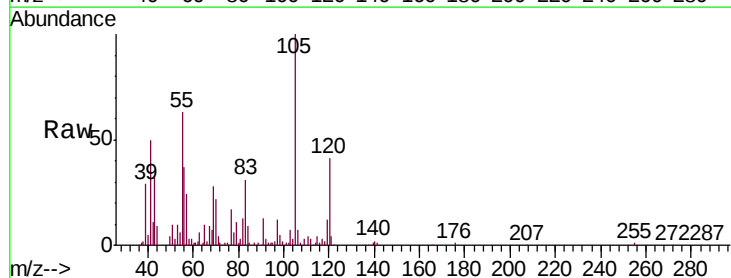
Tgt Ion:119 Resp: 9341

Ion Ratio Lower Upper

119 100

91 0.0 74.9 112.3#

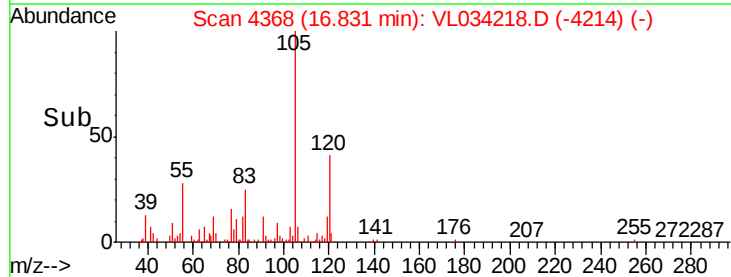
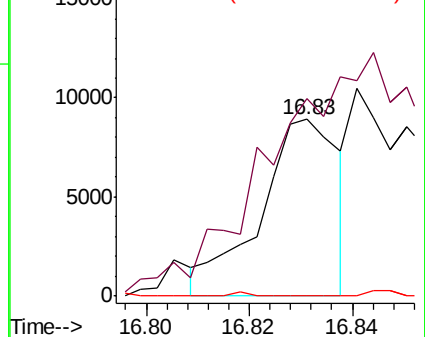
134 0.0 15.8 23.6#

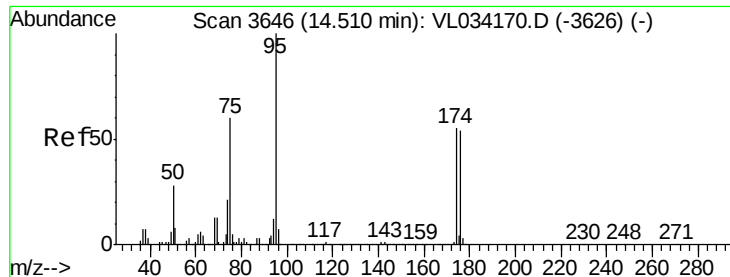


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

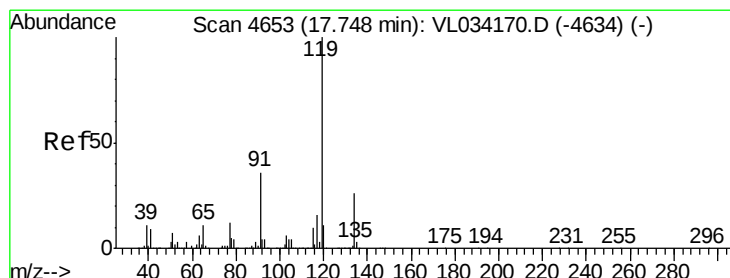
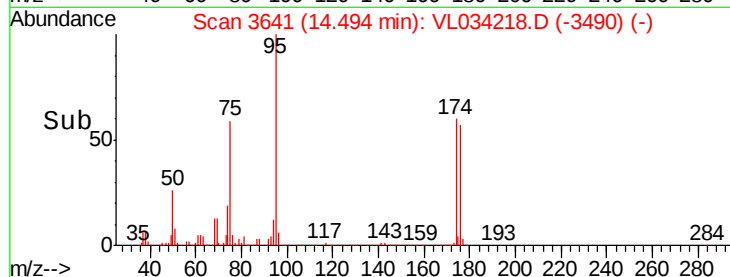
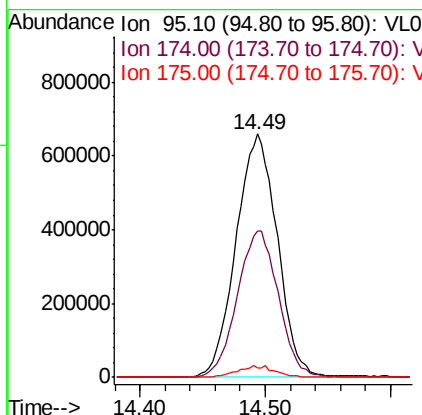
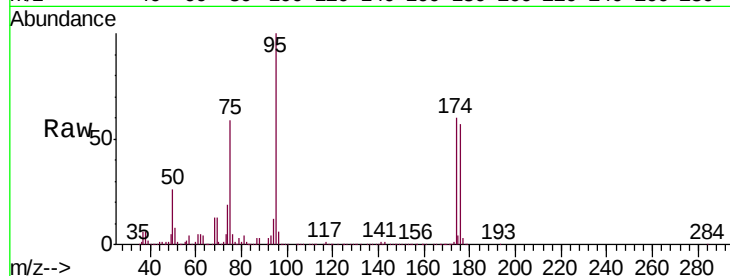




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.958 ppbv  
 RT: 14.49 min Scan# 3641  
 Delta R.T. -0.02 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

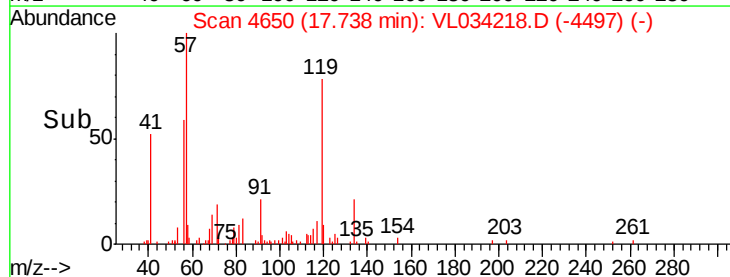
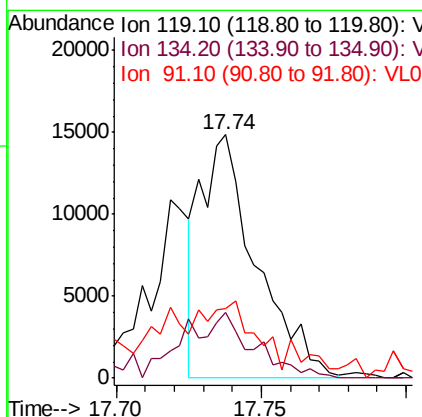
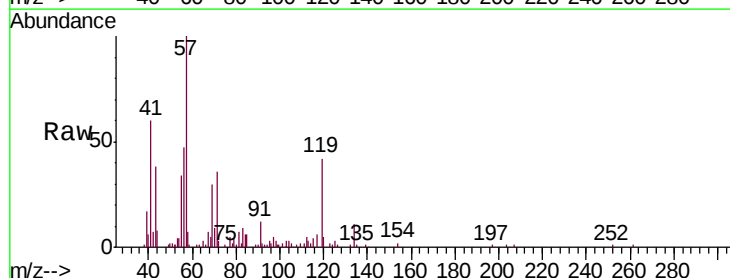
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

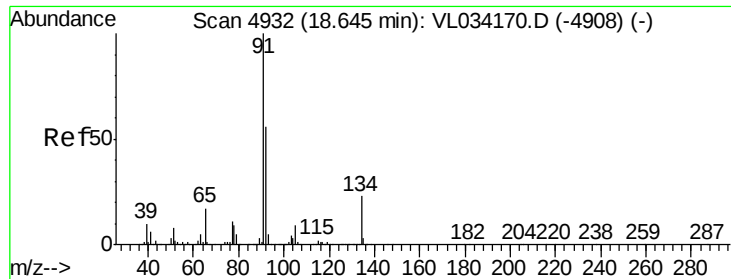
Tgt Ion: 95 Resp: 1506791  
 Ion Ratio Lower Upper  
 95 100  
 174 60.0 45.1 67.7  
 175 4.4 3.3 4.9



#69  
 p-Isopropyltoluene  
 Concen: 0.065 ppbv  
 RT: 17.74 min Scan# 4650  
 Delta R.T. -0.01 min  
 Lab File: VL034218.D  
 Acq: 2 Oct 2019 19:51

Tgt Ion: 119 Resp: 19682  
 Ion Ratio Lower Upper  
 119 100  
 134 38.8 20.6 30.8#  
 91 50.1 27.6 41.4#





#70

n-Butylbenzene

Concen: 0.042 ppbv

RT: 18.63 min Scan# 4928

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

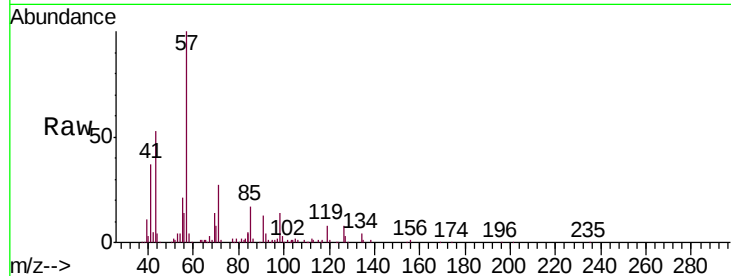
Tgt Ion: 91 Resp: 14824

Ion Ratio Lower Upper

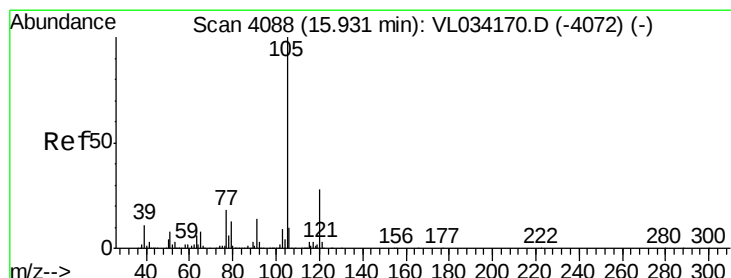
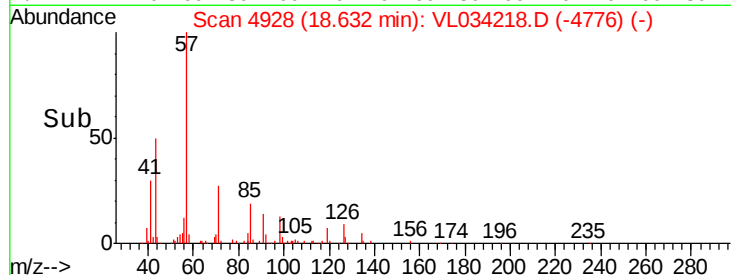
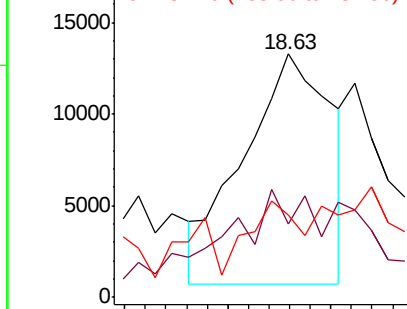
91 100

92 92.5 44.8 67.2#

134 0.0 17.3 25.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): VL0



#72

4-Ethyltoluene

Concen: 0.244 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Tgt Ion: 105 Resp: 64264

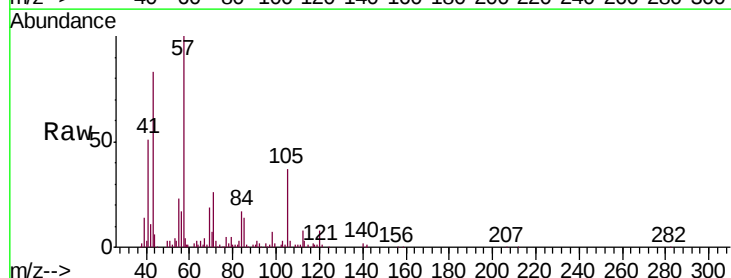
Ion Ratio Lower Upper

105 100

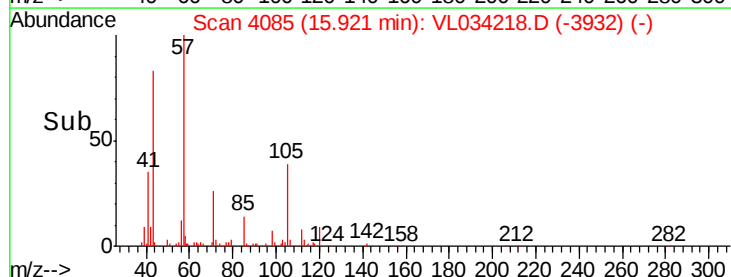
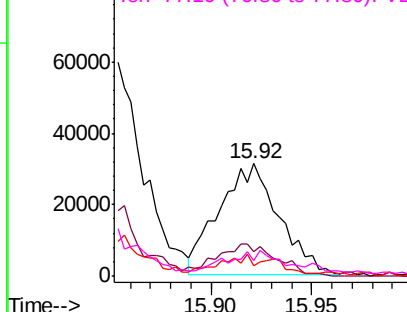
120 28.4 23.3 34.9

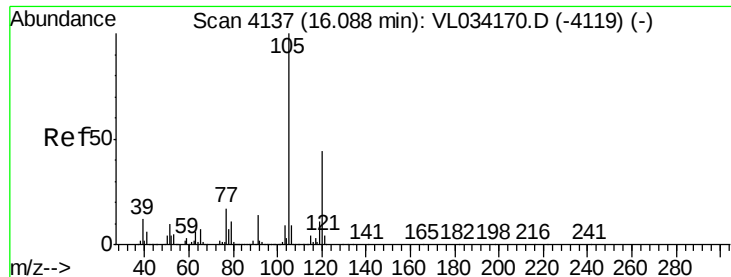
91 15.8 11.4 17.2

77 21.0 13.3 19.9#



Abundance Ion 105.10 (104.80 to 105.80): VL0  
Ion 120.20 (119.90 to 120.90): VL0  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.253 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampleId :

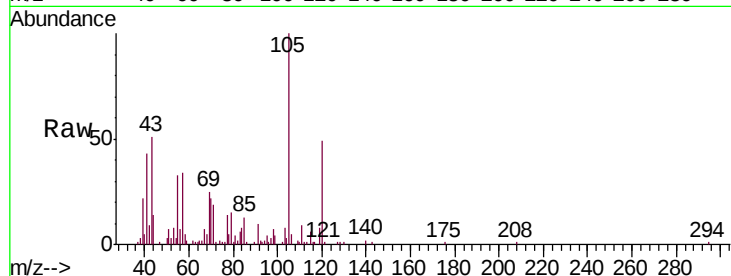
SV-1

Tgt Ion:105 Resp: 64210

Ion Ratio Lower Upper

105 100

120 48.9 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.08

30000

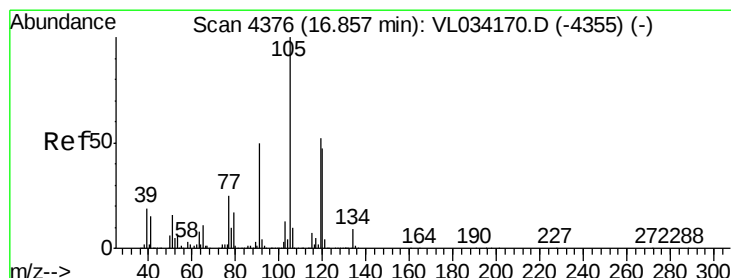
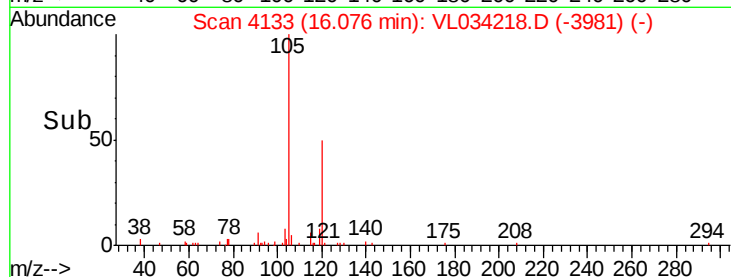
20000

10000

0

Time-->

16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 0.800 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.02 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Tgt Ion:105 Resp: 215813

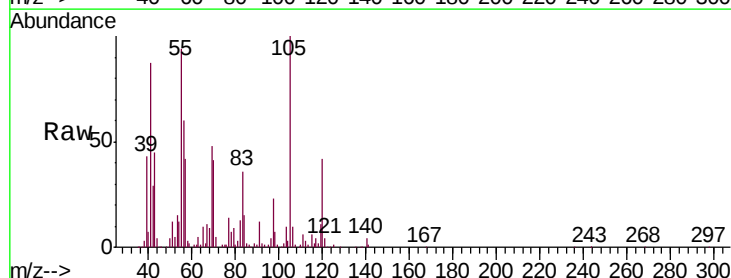
Ion Ratio Lower Upper

105 100

120 42.1 37.5 56.3

91 10.9 41.1 61.7#

77 13.1 19.9 29.9#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

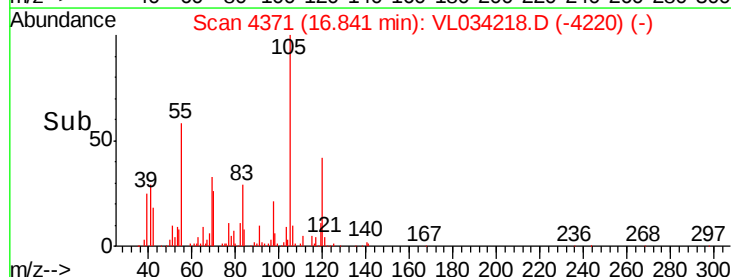
100000

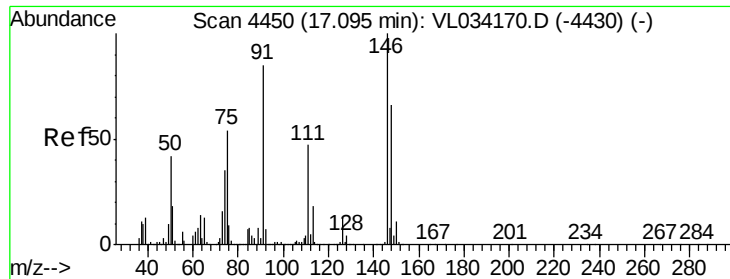
50000

0

Time-->

16.75 16.80 16.85 16.90





#75

1,3-Dichlorobenzene

Concen: 0.052 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. -0.01 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

Instrument :

MSVOA\_L

ClientSampled :

SV-1

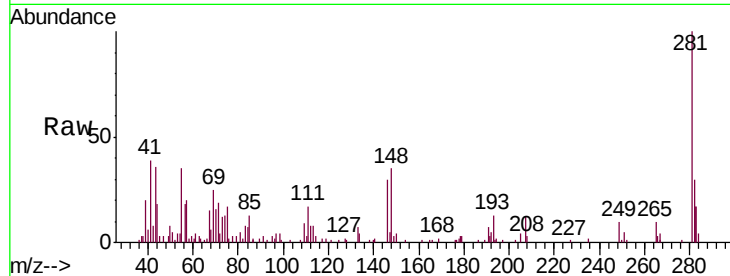
Tgt Ion:146 Resp: 7560

Ion Ratio Lower Upper

146 100

111 123.1 25.9 77.8#

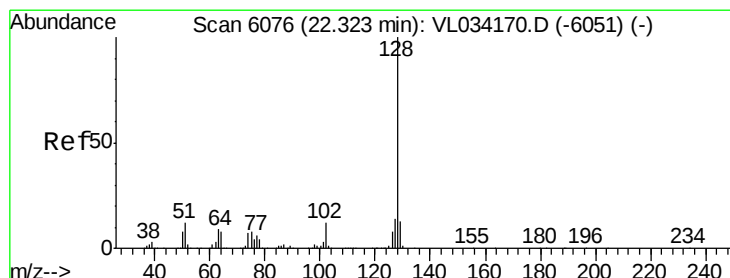
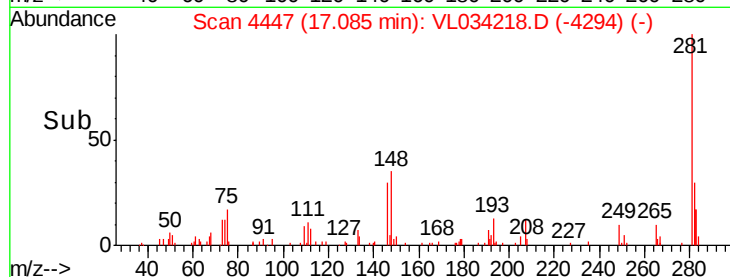
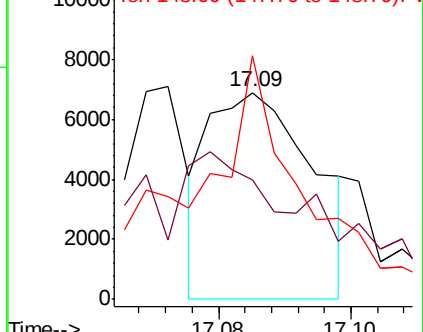
148 168.1 32.6 97.7#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.040 ppbv

RT: 22.30 min Scan# 6070

Delta R.T. -0.02 min

Lab File: VL034218.D

Acq: 2 Oct 2019 19:51

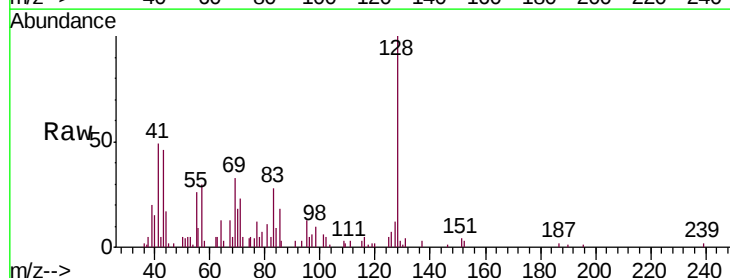
Tgt Ion:128 Resp: 9510

Ion Ratio Lower Upper

128 100

127 12.1 11.1 16.7

129 0.0 10.2 15.4#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

