

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\  
 Data File : VL035529.D  
 Acq On : 3 Sep 2020 13:49  
 Operator : SY/AP  
 Sample : VL0903ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

Quant Time: Sep 04 06:45:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 27 06:46:28 2020  
 QLast Update : Thu Aug 27 06:46:28 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1020072  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 4471619  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 5791036  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 3322128  | 8.08     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 80.80% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 1740509  | 9.846  | ppbv  | 100    |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 1174205  | 10.408 | ppbv  | 100    |
| 4) Chloromethane               | 3.14 | 50   | 622494   | 10.299 | ppbv  | 100    |
| 5) Vinyl Chloride              | 3.26 | 62   | 740434   | 9.936  | ppbv  | 97     |
| 6) Bromomethane                | 3.48 | 94   | 658608   | 10.522 | ppbv  | 98     |
| 7) Chloroethane                | 3.56 | 64   | 281830   | 10.697 | ppbv  | 97     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 2166809  | 10.121 | ppbv  | 99     |
| 9) Propene                     | 3.02 | 41   | 460862   | 10.596 | ppbv  | 99     |
| 10) Heptane                    | 8.15 | 43   | 1252652  | 10.723 | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 3.96 | 101  | 2608175  | 10.117 | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101  | 1975963  | 10.155 | ppbv  | 99     |
| 13) Ethanol                    | 3.61 | 45   | 112866   | 10.466 | ppbv  | 97     |
| 14) Bromoethene                | 3.75 | 108  | 911236   | 10.880 | ppbv  | 98     |
| 15) Acetone                    | 3.86 | 43   | 995205   | 8.846  | ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 454130   | 10.843 | ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.30 | 59   | 1490830  | 10.886 | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96   | 921837   | 10.759 | ppbv  | 98     |
| 19) Isopropyl Alcohol          | 3.98 | 45   | 743356   | 11.076 | ppbv  | 100    |
| 20) Methylene Chloride         | 4.36 | 84   | 799124   | 9.537  | ppbv  | 99     |
| 21) Allyl Chloride             | 4.42 | 41   | 597973   | 11.345 | ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96   | 964308   | 10.572 | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.09 | 43   | 1560861  | 10.809 | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.03 | 63   | 1561560  | 10.508 | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.70 | 43   | 2056918  | 10.349 | ppbv  | 100    |
| 26) Hexane                     | 5.71 | 57   | 1186669  | 10.537 | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.56 | 76   | 1948022  | 12.054 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 2137494  | 10.890 | ppbv  | 100    |
| 29) Chloroform                 | 5.77 | 83   | 2406031  | 10.486 | ppbv  | 99     |
| 30) Cyclohexane                | 7.15 | 84   | 1344974  | 11.149 | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61   | 1275909  | 11.043 | ppbv  | 98     |
| 32) 1,1,1-Trichloroethane      | 6.54 | 97   | 2394109  | 10.756 | ppbv  | 100    |
| 34) 2-Butanone                 | 5.26 | 43   | 1425875  | 10.745 | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.04 | 117  | 2512882  | 11.181 | ppbv  | 100    |
| 36) Benzene                    | 6.92 | 78   | 3089401  | 10.673 | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.33 | 62   | 1463034  | 10.602 | ppbv  | 100    |
| 38) Trichloroethene            | 7.86 | 130  | 1651978  | 9.825  | ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.64 | 63   | 1033188  | 10.566 | ppbv  | 97     |
| 40) 1,4-Dioxane                | 7.86 | 88   | 559947   | 11.463 | ppbv  | 98     |
| 41) Tetrahydrofuran            | 6.07 | 42   | 811934   | 11.538 | ppbv  | 100    |
| 42) Bromodichloromethane       | 7.82 | 83   | 2535451  | 11.361 | ppbv  | 100    |
| 43) Methyl Methacrylate        | 8.04 | 69   | 1280626  | 11.442 | ppbv  | 100    |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

Quant Time: Sep 04 06:45:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 27 06:46:28 2020  
 QLast Update : Thu Aug 27 06:46:28 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.90  | 57   | 3975702  | 10.439 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.31  | 75   | 1449673  | 12.786 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 1723673  | 12.244 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.51  | 97   | 1534250  | 10.634 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.34 | 129  | 2679032  | 11.798 | ppbv   | 100      |
| 49) Bromoform                 | 13.08 | 173  | 2565270  | 12.465 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 2128581  | 11.077 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.17 | 43   | 1834972  | 11.641 | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.26 | 164  | 1691182  | 10.001 | ppbv   | 99       |
| 53) Toluene                   | 9.84  | 91   | 3950564  | 10.853 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.65 | 107  | 2457912  | 10.781 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 2110020  | 8.955  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.18 | 112  | 3395430  | 7.967  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.75 | 91   | 5144655  | 8.615  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.04 | 91   | 4508626  | 9.035  | ppbv # | 37       |
| 60) o-Xylene                  | 13.73 | 91   | 4255390  | 8.467  | ppbv   | 100      |
| 61) Styrene                   | 13.56 | 104  | 3494053  | 9.090  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.71 | 105  | 6560218  | 8.126  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.72 | 83   | 3046738  | 7.819  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.61 | 120  | 2113938  | 8.580  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.79 | 119  | 6269455  | 8.354  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.03 | 91   | 2143361  | 11.492 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.34 | 105  | 8131697  | 8.133  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.70 | 119  | 7159654  | 8.163  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.60 | 91   | 6946320  | 8.223  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 5023073  | 8.544  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.88 | 105  | 5454155  | 8.536  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.04 | 105  | 5084499  | 8.604  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.81 | 105  | 5285792  | 8.145  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.04 | 146  | 3850038  | 8.009  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 3866706  | 8.156  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 3801284  | 8.162  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.43 | 225  | 2466869  | 8.296  | ppbv   | 100      |
| 79) Naphthalene               | 22.26 | 128  | 6439891  | 8.943  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 2440235  | 9.929  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 3717513  | 8.621  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

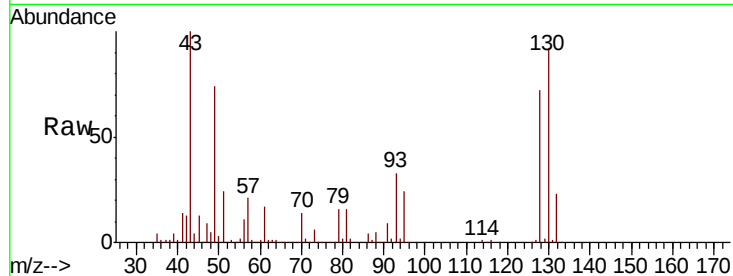
Tot Ion: 49 Resp: 1020072

Ion Ratio Lower Upper

49 100

128 98.2 50.0 150.1

130 127.0 64.4 193.2

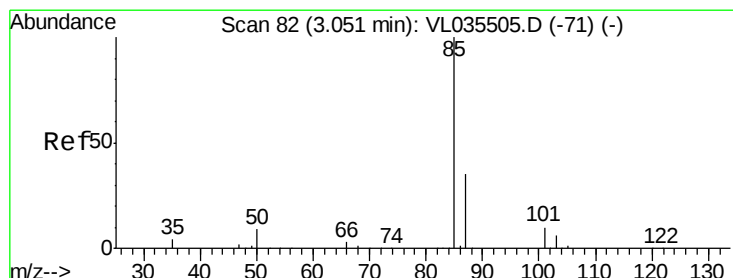
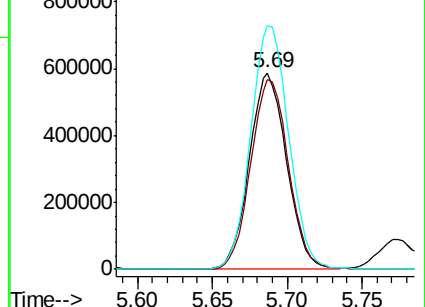
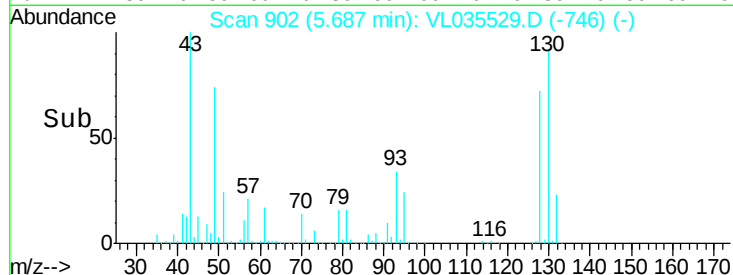


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#2

Dichlorodifluoromethane

Concen: 9.846 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL035529.D

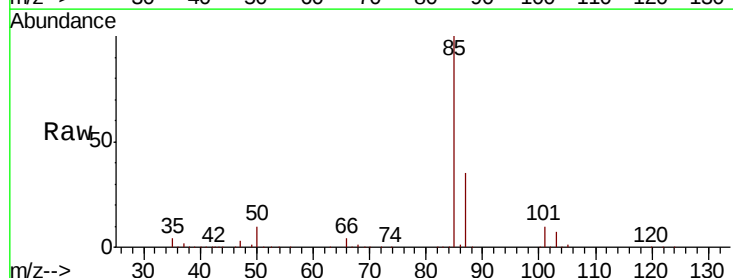
Acq: 3 Sep 2020 13:49

Tgt Ion: 85 Resp: 1740509

Ion Ratio Lower Upper

85 100

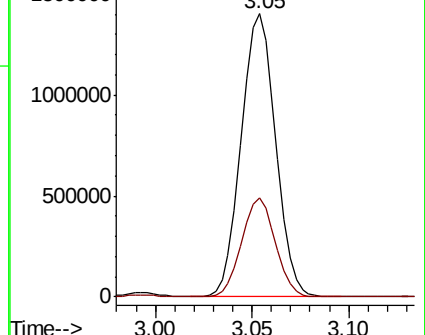
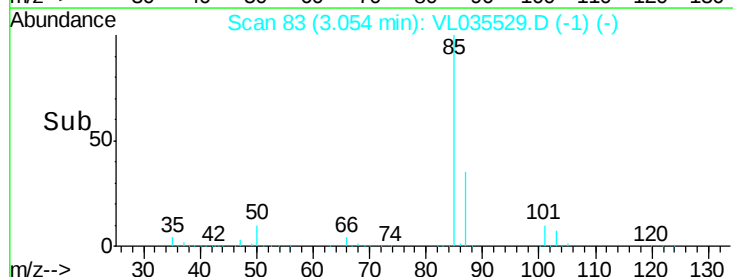
87 34.9 28.0 42.0

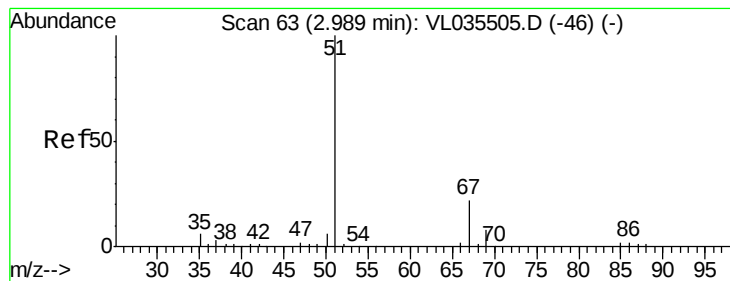


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->





#3

Chlorodifluoromethane

Concen: 10.408 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

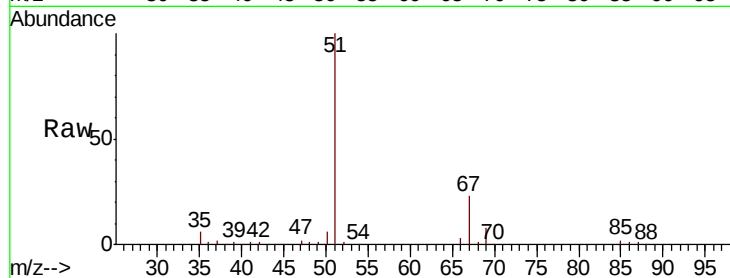
VL0903ABS01

Tot Ion: 51 Resp: 1174205

Ion Ratio Lower Upper

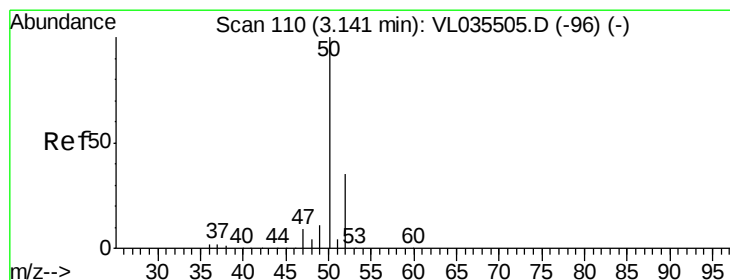
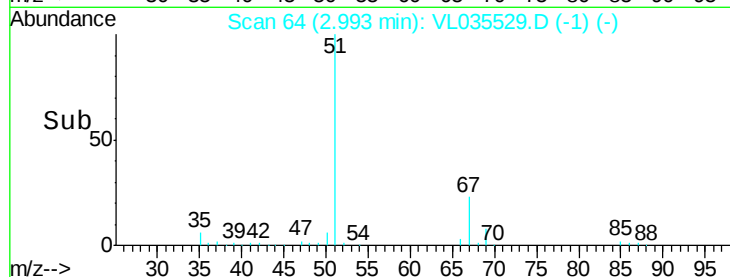
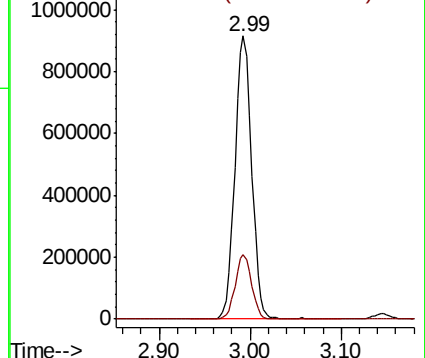
51 100

67 22.5 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.299 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035529.D

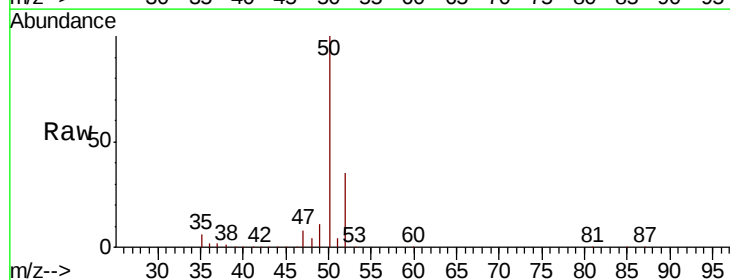
Acq: 3 Sep 2020 13:49

Tgt Ion: 50 Resp: 622494

Ion Ratio Lower Upper

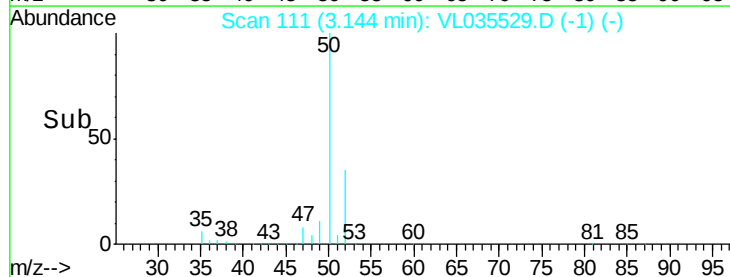
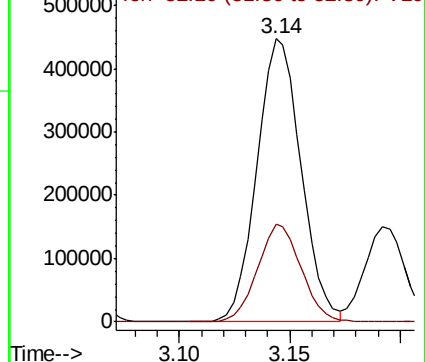
50 100

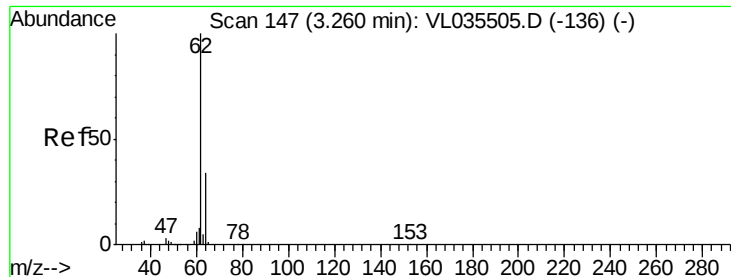
52 34.8 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.936 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

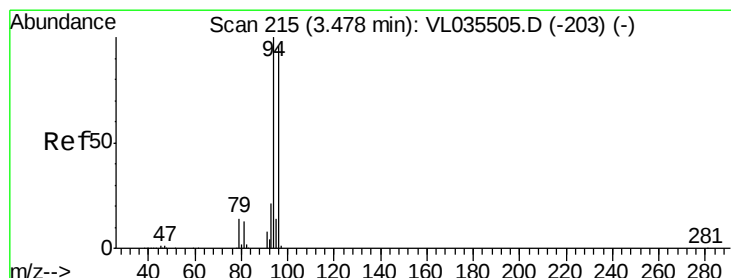
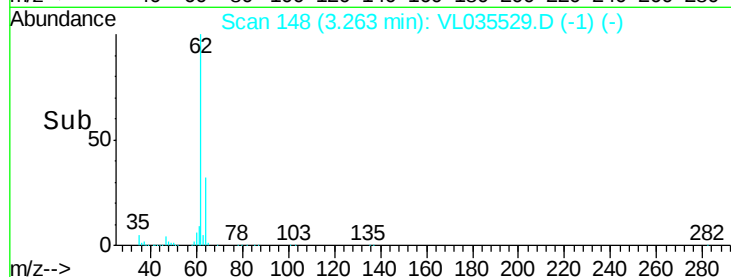
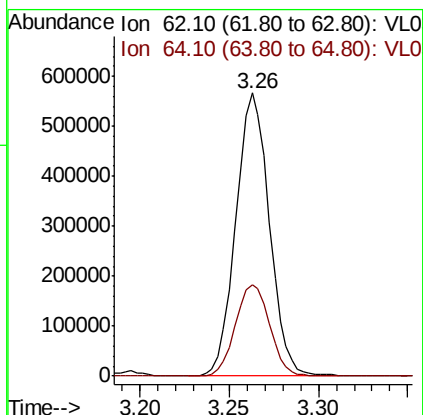
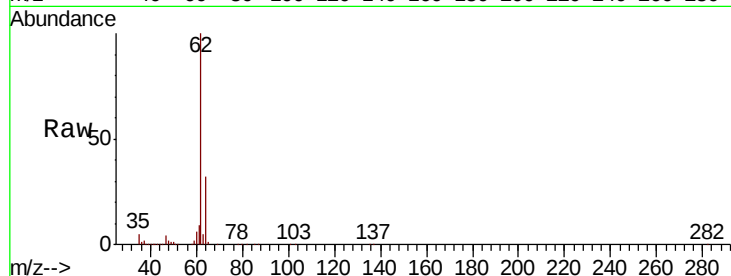
VL0903ABS01

Tot Ion: 62 Resp: 740434

Ion Ratio Lower Upper

62 100

64 32.4 27.4 41.2



#6

Bromomethane

Concen: 10.522 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.00 min

Lab File: VL035529.D

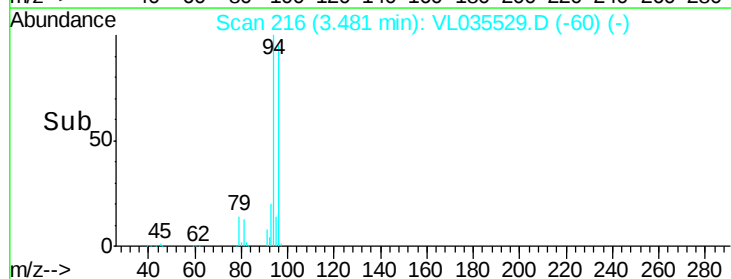
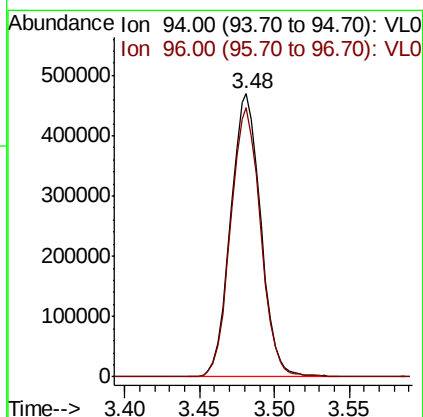
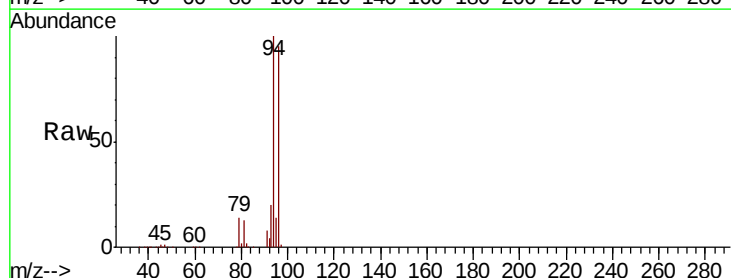
Acq: 3 Sep 2020 13:49

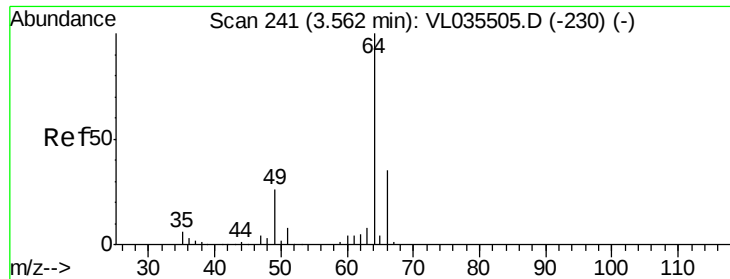
Tgt Ion: 94 Resp: 658608

Ion Ratio Lower Upper

94 100

96 94.9 77.1 115.7





#7

Chloroethane

Concen: 10.697 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

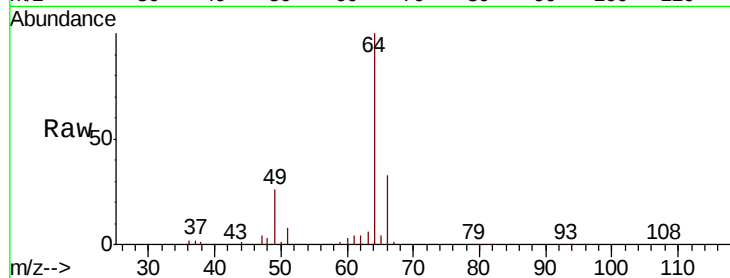
VL0903ABS01

Tot Ion: 64 Resp: 281830

Ion Ratio Lower Upper

64 100

66 32.7 27.7 41.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

100000

50000

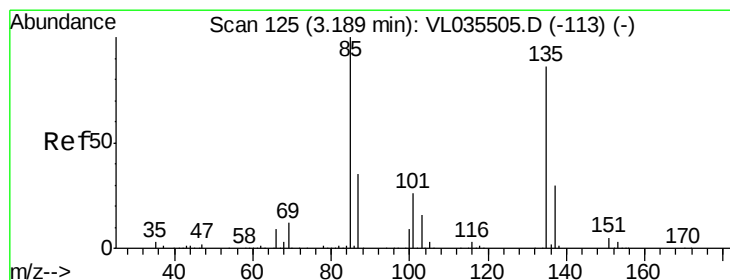
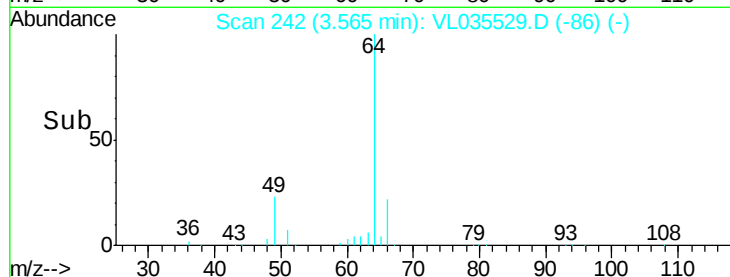
0

3.50

3.55

3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.121 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035529.D

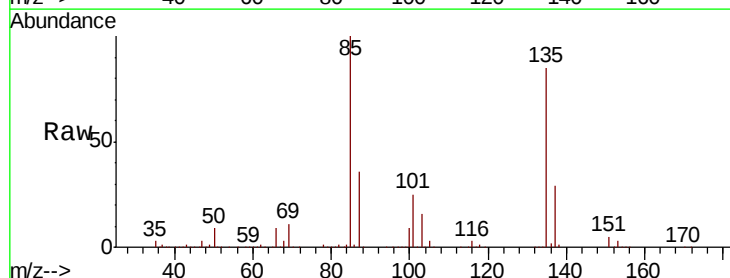
Acq: 3 Sep 2020 13:49

Tgt Ion: 85 Resp: 2166809

Ion Ratio Lower Upper

85 100

135 87.0 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

2000000

1500000

1000000

500000

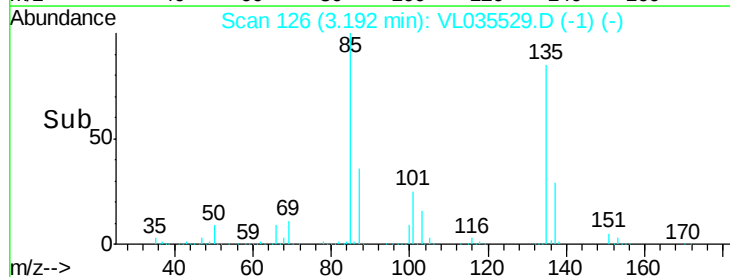
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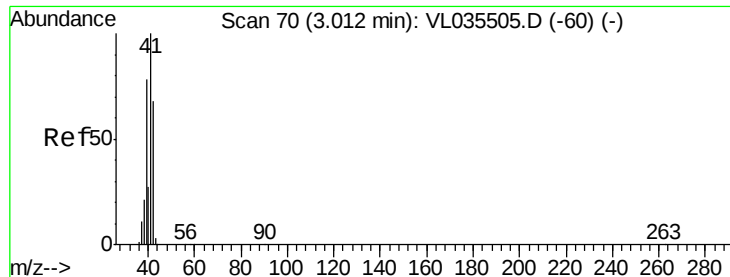
3.15

3.20

3.25

Time-->





#9

Propene

Concen: 10.596 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

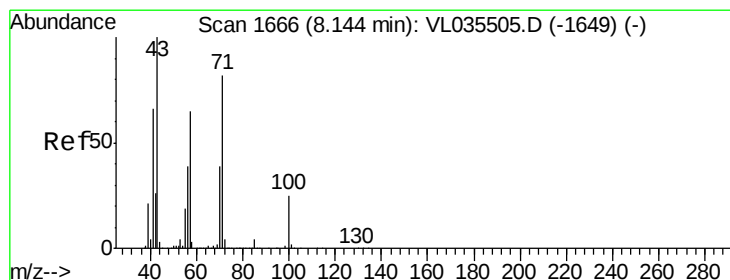
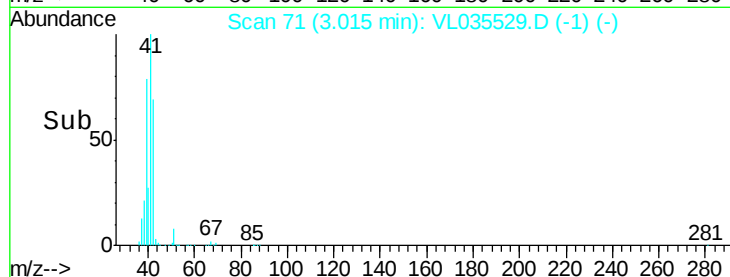
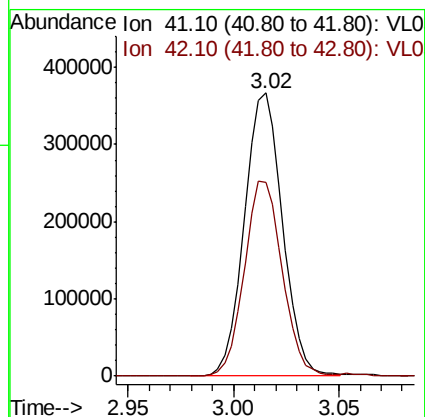
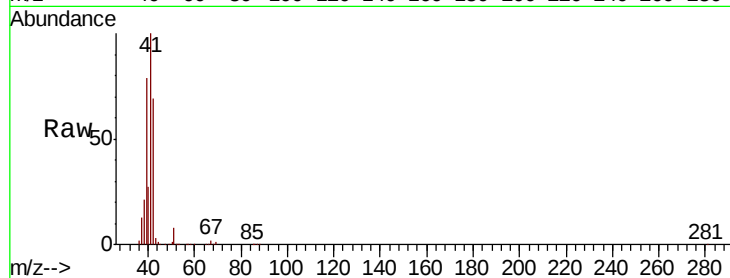
VL0903ABS01

Tot Ion: 41 Resp: 460862

Ion Ratio Lower Upper

41 100

42 69.5 56.3 84.5



#10

Heptane

Concen: 10.723 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL035529.D

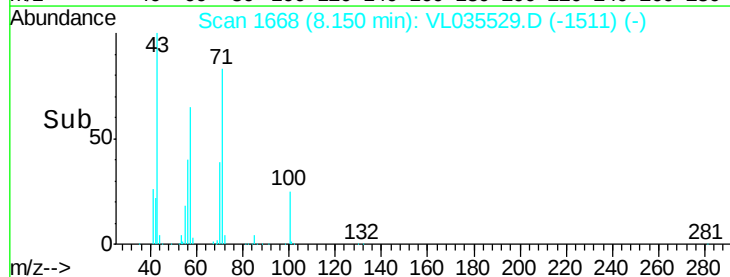
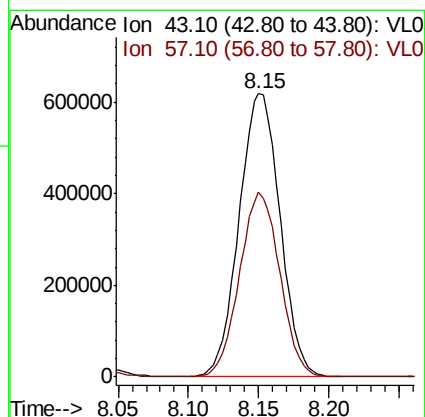
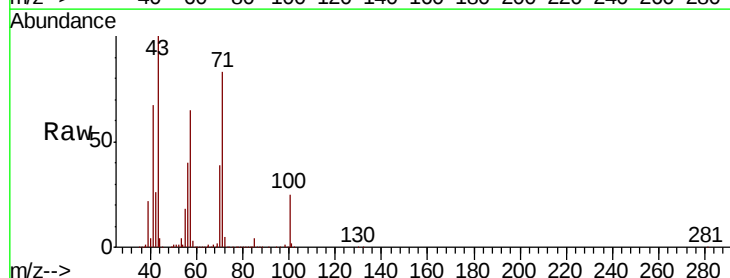
Acq: 3 Sep 2020 13:49

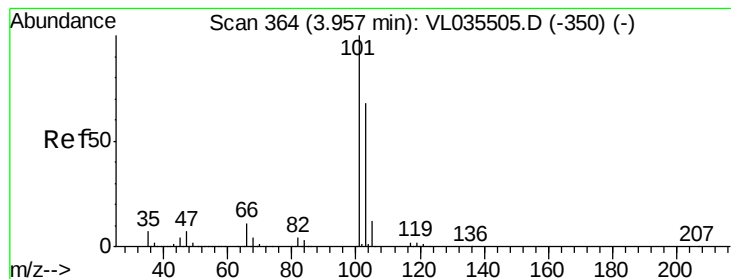
Tgt Ion: 43 Resp: 1252652

Ion Ratio Lower Upper

43 100

57 64.4 51.4 77.0





#11

Trichlorofluoromethane

Concen: 10.117 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

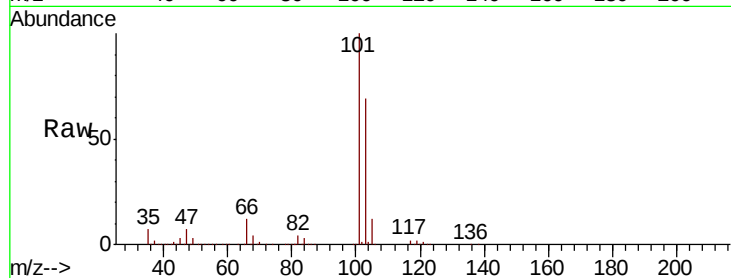
VL0903ABS01

Tot Ion:101 Resp: 2608175

Ion Ratio Lower Upper

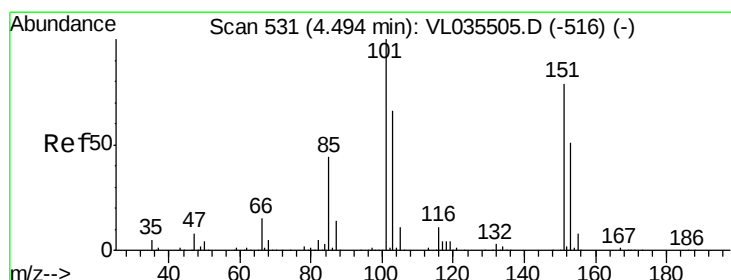
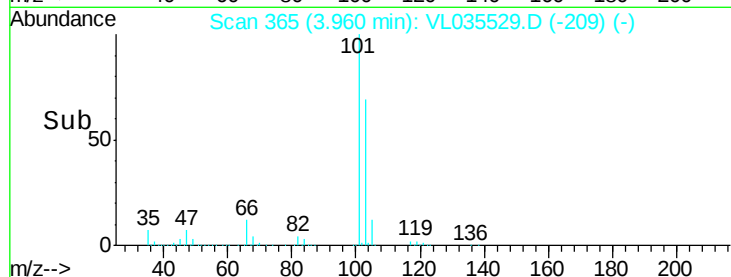
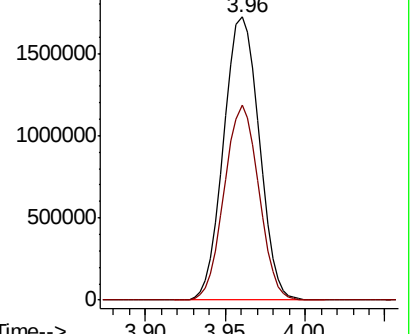
101 100

103 69.1 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

2000000 Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.155 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL035529.D

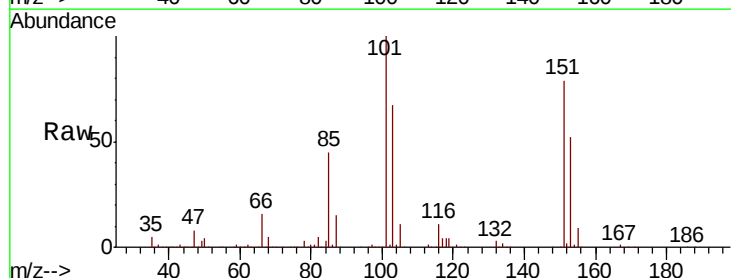
Acq: 3 Sep 2020 13:49

Tgt Ion:101 Resp: 1975963

Ion Ratio Lower Upper

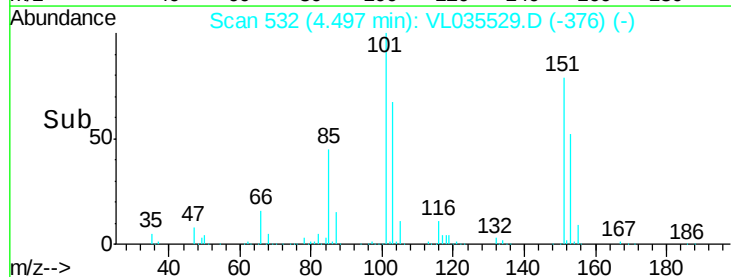
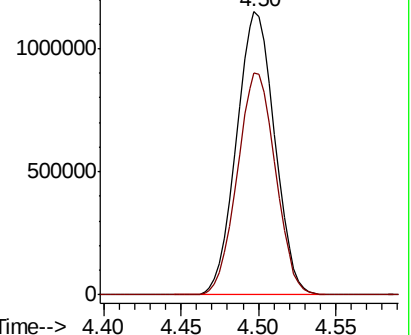
101 100

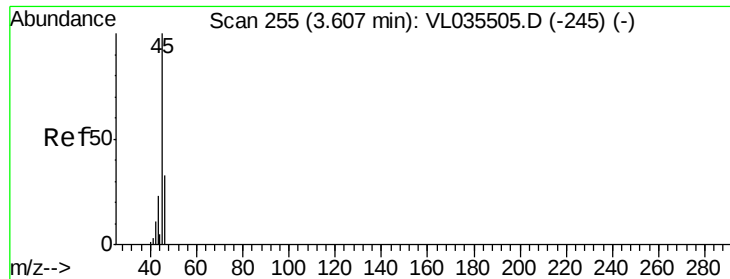
151 78.8 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

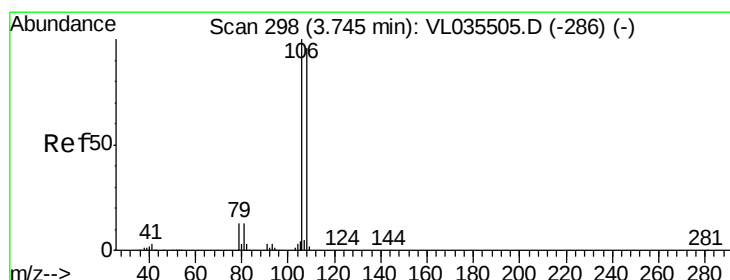
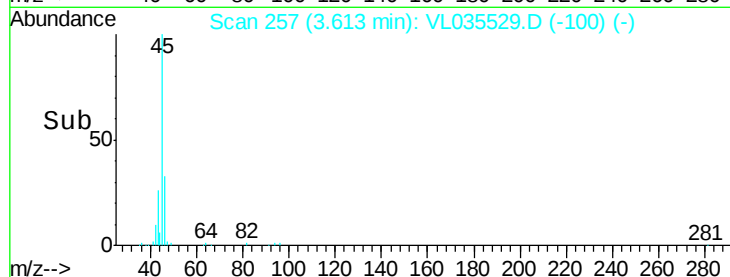
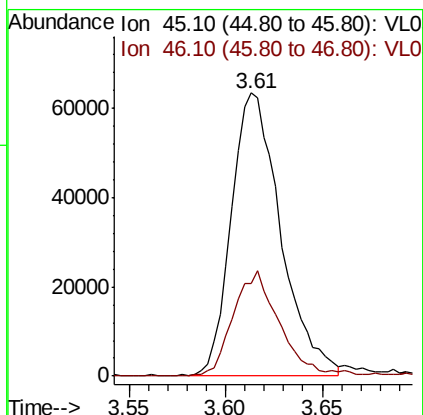
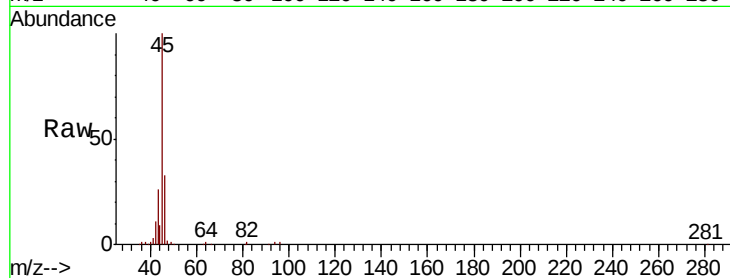




#13  
Ethanol  
Concen: 10.466 ppbv  
RT: 3.61 min Scan# 257  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

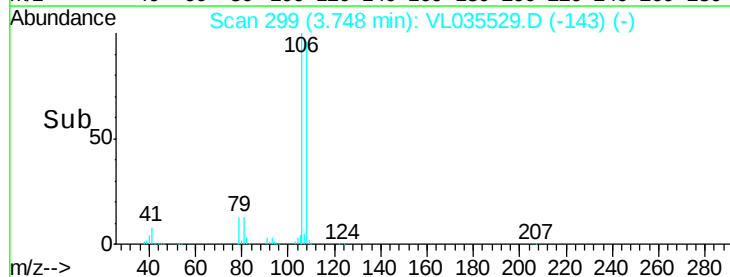
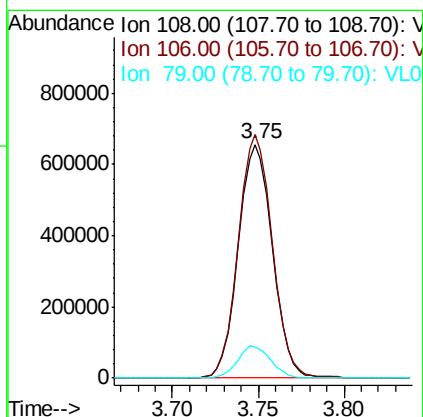
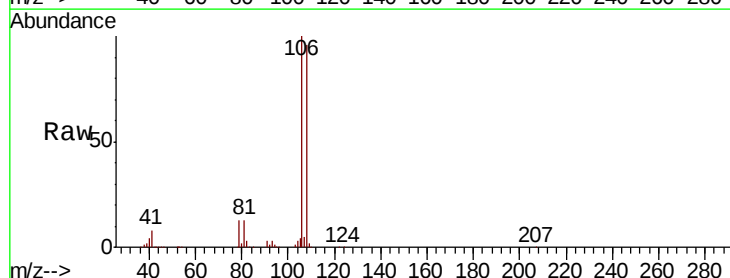
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

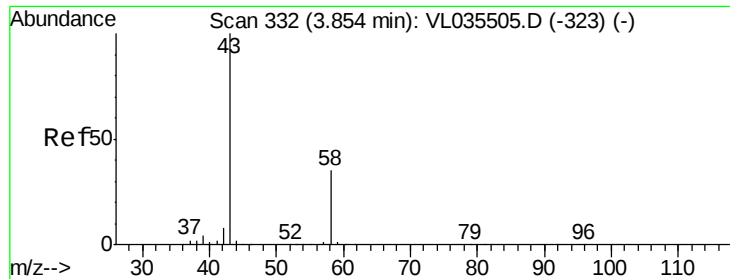
Tot Ion: 45 Resp: 112866  
Ion Ratio Lower Upper  
45 100  
46 35.9 15.2 60.6



#14  
Bromoethene  
Concen: 10.880 ppbv  
RT: 3.75 min Scan# 299  
Delta R.T. 0.00 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 108 Resp: 911236  
Ion Ratio Lower Upper  
108 100  
106 104.1 84.9 127.3  
79 13.6 10.8 16.2





#15

Acetone

Concen: 8.846 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

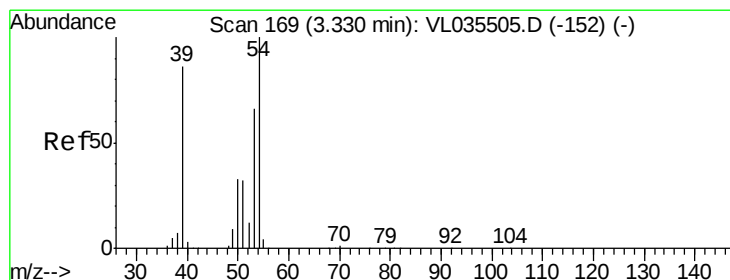
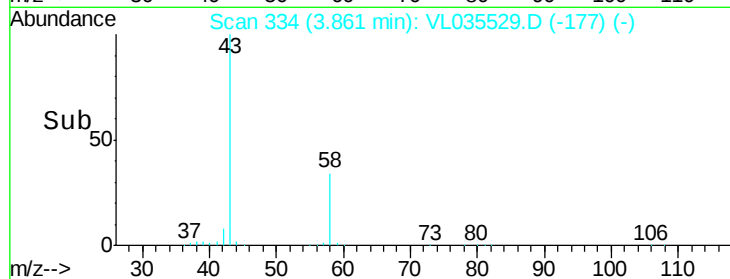
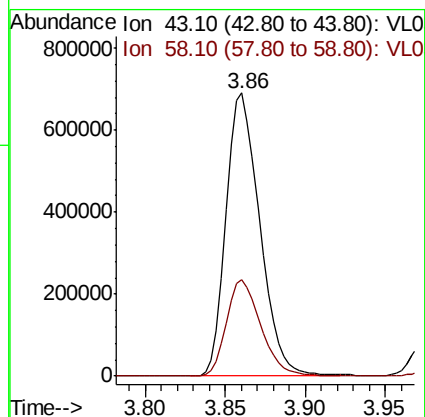
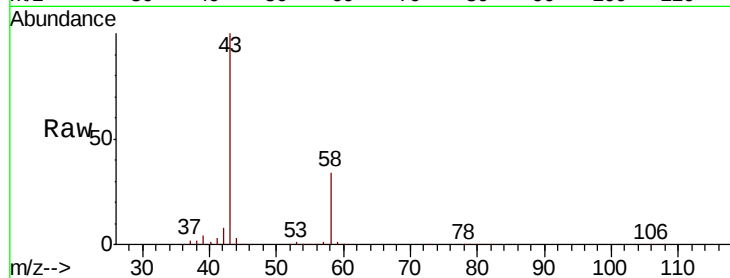
VL0903ABS01

Tot Ion: 43 Resp: 995205

Ion Ratio Lower Upper

43 100

58 34.8 28.4 42.6



#16

1,3-Butadiene

Concen: 10.843 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL035529.D

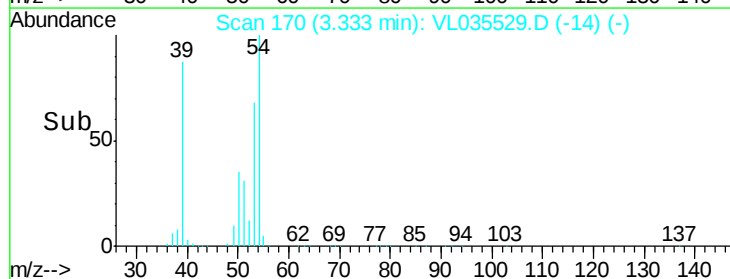
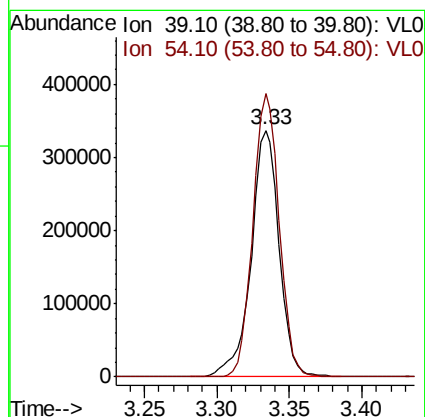
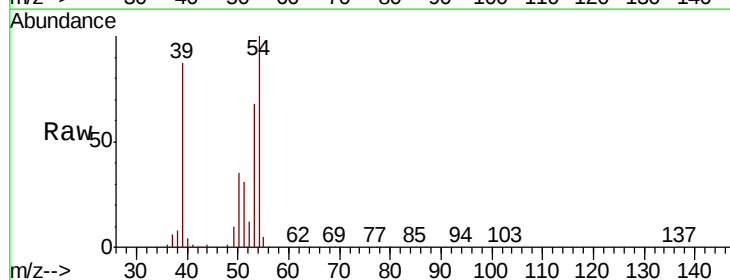
Acq: 3 Sep 2020 13:49

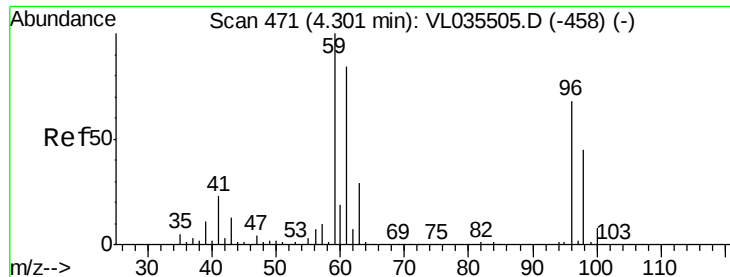
Tgt Ion: 39 Resp: 454130

Ion Ratio Lower Upper

39 100

54 108.6 88.4 132.6





#17

tert-Butyl alcohol

Concen: 10.886 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

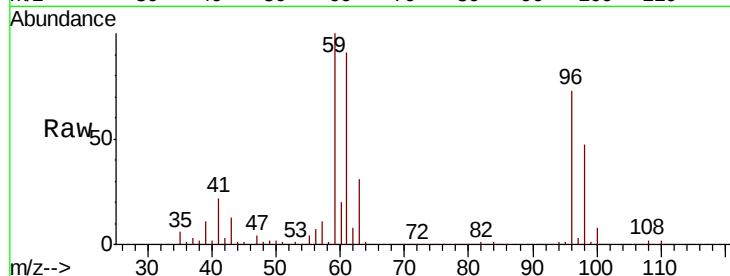
VL0903ABS01

Tot Ion: 59 Resp: 1490830

Ion Ratio Lower Upper

59 100

57 10.6 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

800000

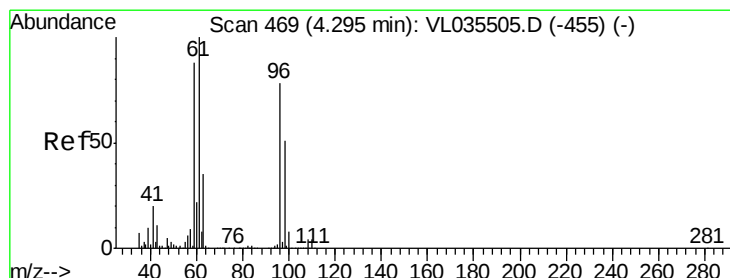
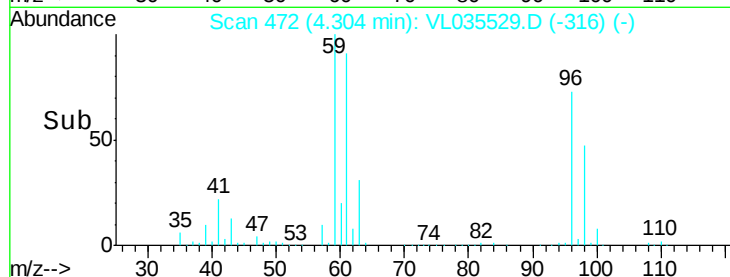
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.759 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

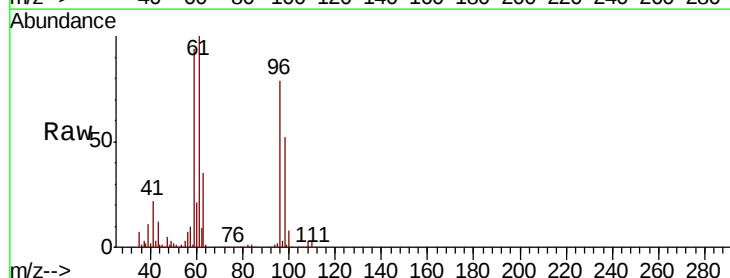
Tgt Ion: 96 Resp: 921837

Ion Ratio Lower Upper

96 100

61 126.1 103.0 154.6

98 65.0 52.8 79.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

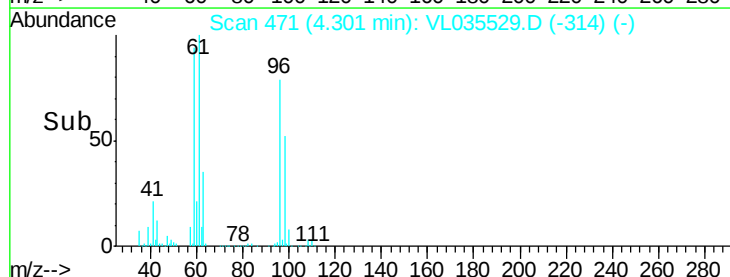
600000

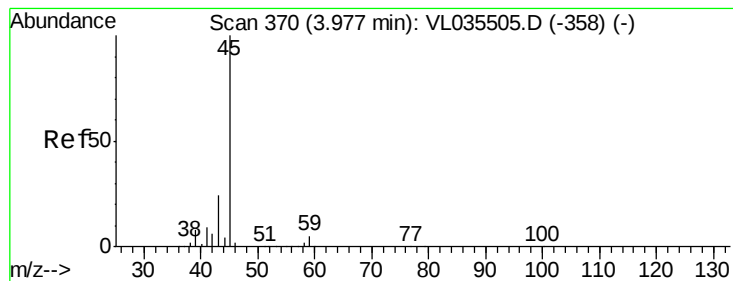
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 11.076 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

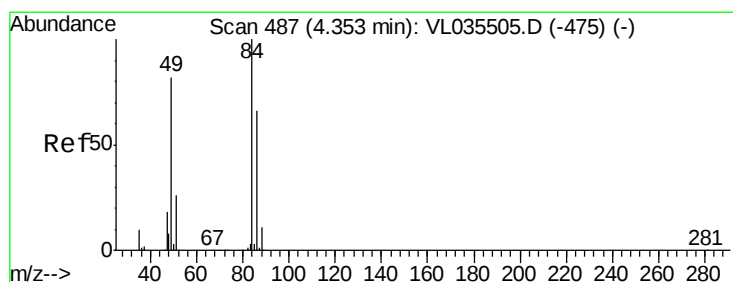
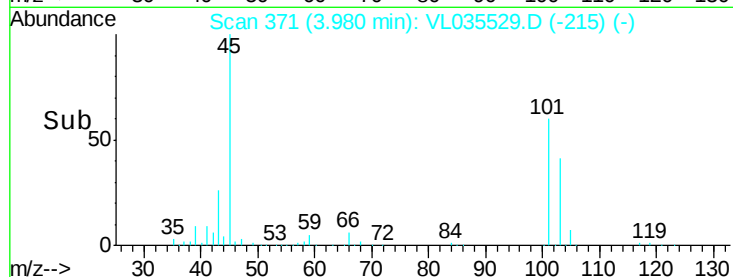
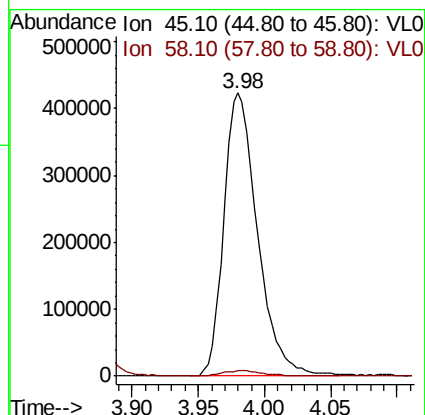
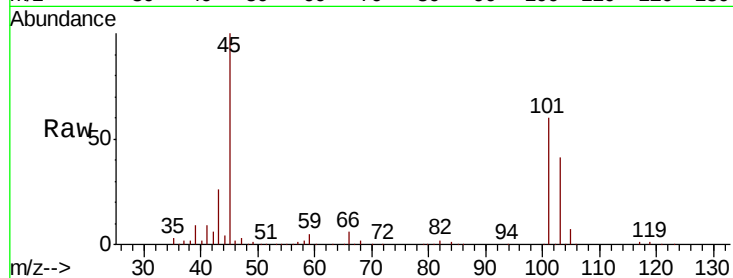
VL0903ABS01

Tot Ion: 45 Resp: 743356

Ion Ratio Lower Upper

45 100

58 2.4 2.0 3.0



#20

Methylene Chloride

Concen: 9.537 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion: 84 Resp: 799124

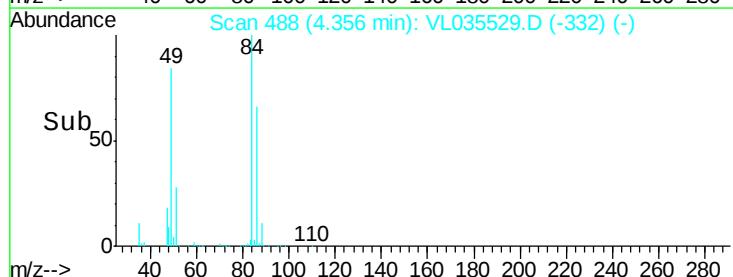
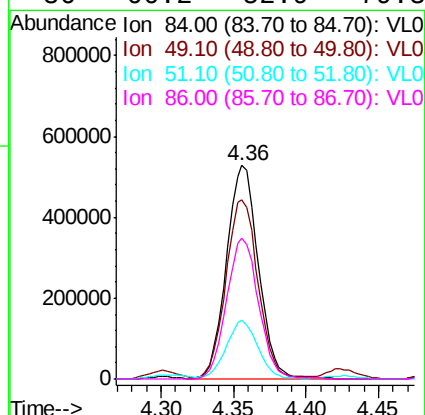
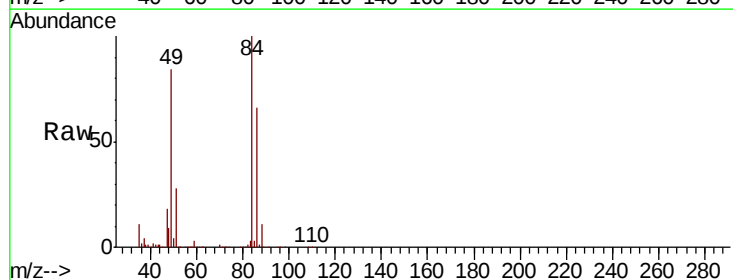
Ion Ratio Lower Upper

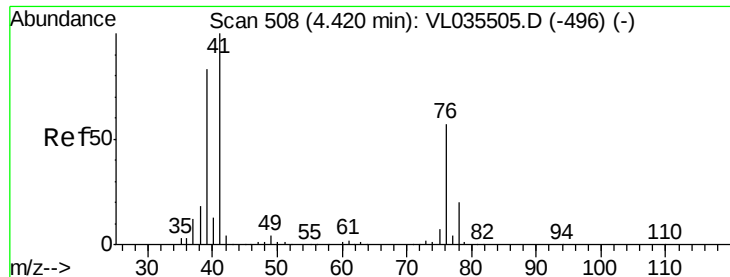
84 100

49 83.2 65.4 98.0

51 26.5 21.5 32.3

86 66.2 52.9 79.3





#21

Allvl Chloride

Concen: 11.345 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

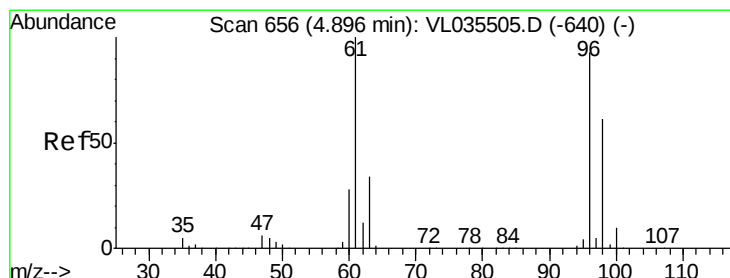
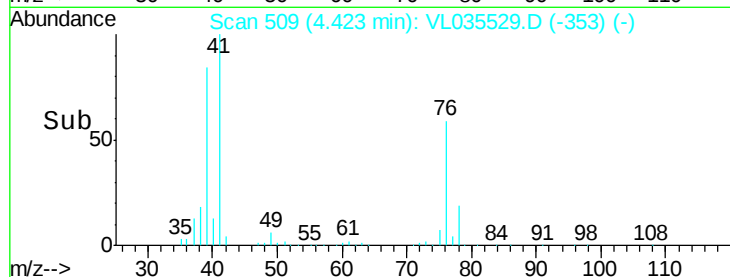
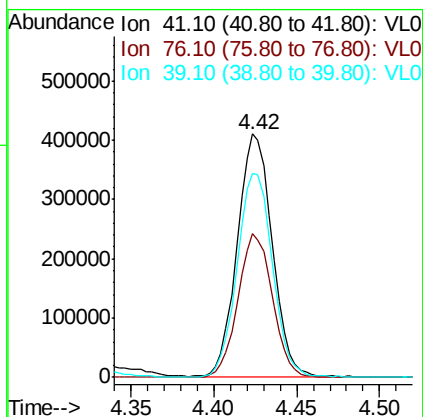
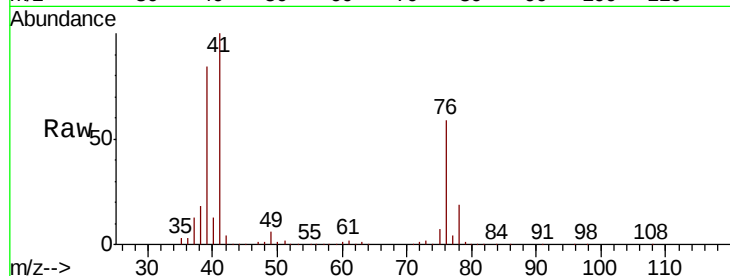
Tot Ion: 41 Resp: 597973

Ion Ratio Lower Upper

41 100

76 58.7 46.2 69.2

39 85.8 67.8 101.6



#22

trans-1,2-Dichloroethene

Concen: 10.572 ppbv

RT: 4.90 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

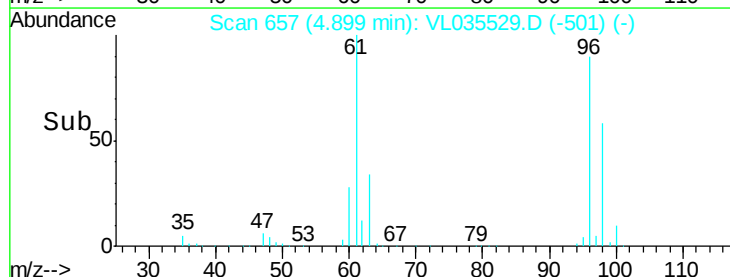
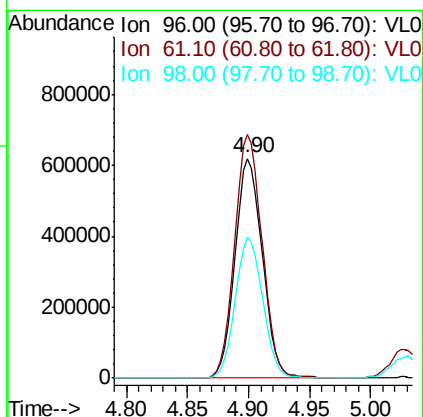
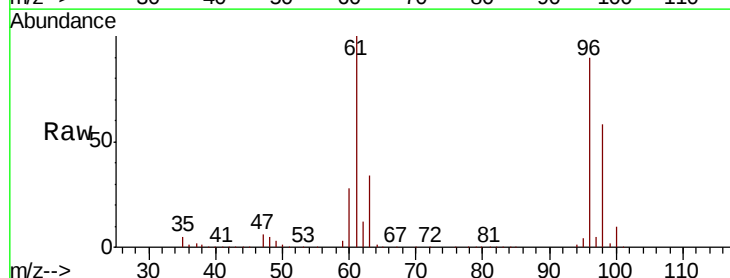
Tgt Ion: 96 Resp: 964308

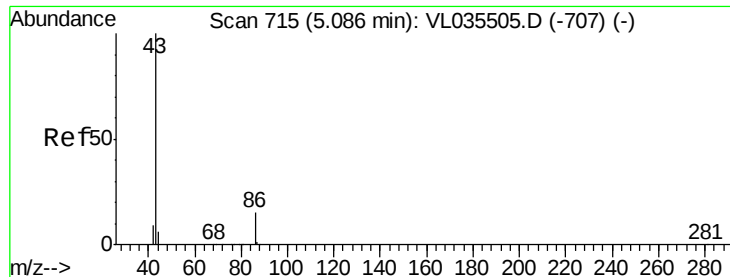
Ion Ratio Lower Upper

96 100

61 110.9 86.0 129.0

98 64.4 52.3 78.5





#23

Vinyl Acetate

Concen: 10.809 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

Tot Ion: 43 Resp: 1560861

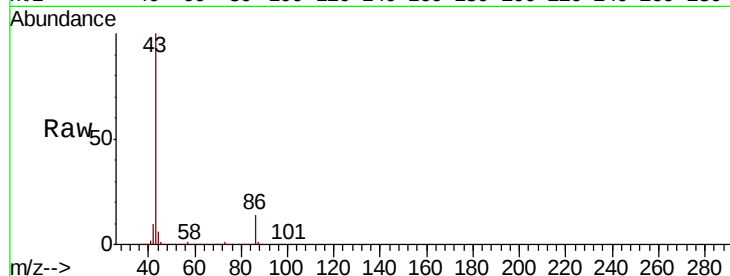
Ion Ratio Lower Upper

43 100

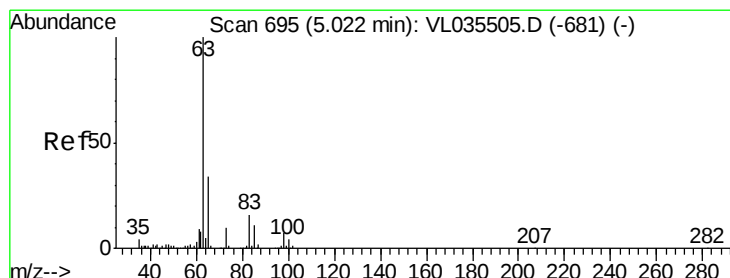
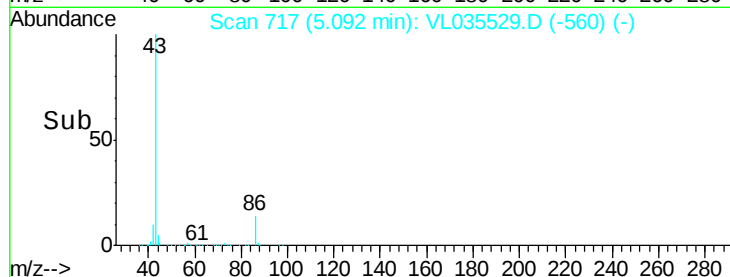
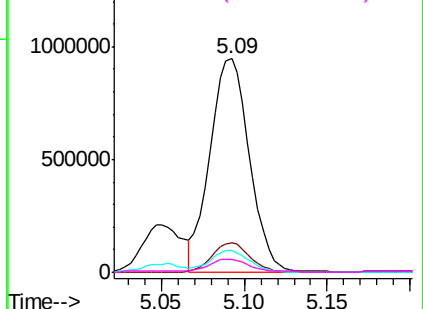
86 13.7 10.6 16.0

42 10.0 7.5 11.3

44 5.6 4.4 6.6



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



#24

1,1-Dichloroethane

Concen: 10.508 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

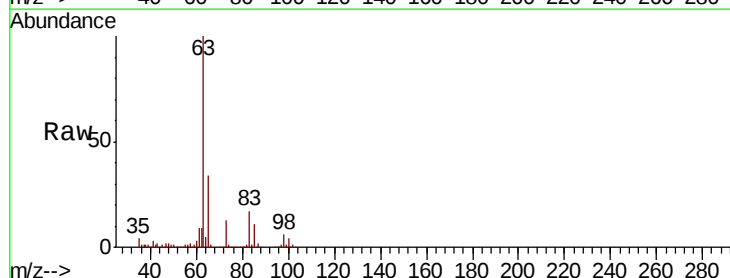
Tgt Ion: 63 Resp: 1561560

Ion Ratio Lower Upper

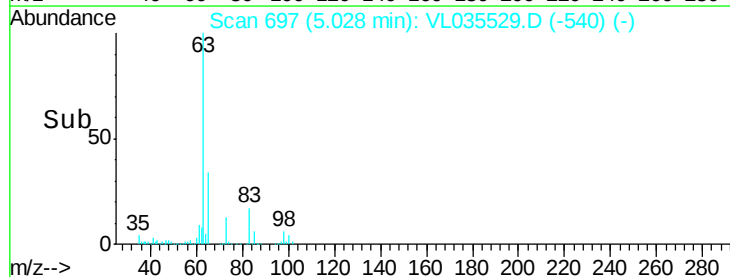
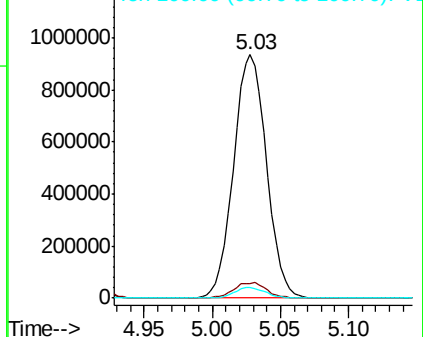
63 100

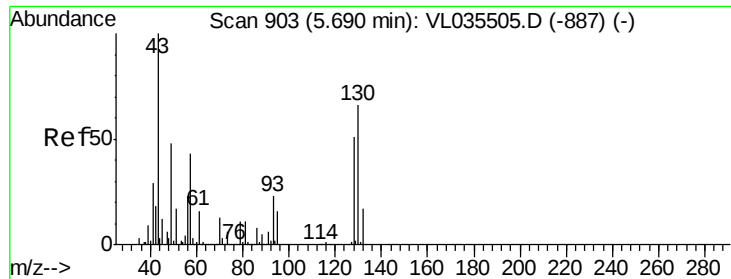
98 6.1 3.4 10.1

100 4.3 2.1 6.5



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0



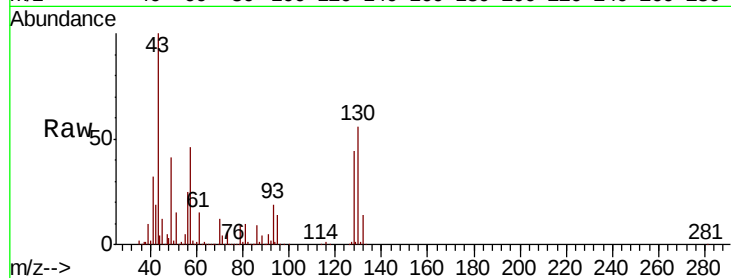


#25  
Ethyl Acetate  
Concen: 10.349 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

Tot Ion: 43 Resp: 2056918

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.4   | 12.6  |
| 61  | 13.2  | 10.6  | 16.0  |
| 70  | 11.6  | 9.4   | 14.2  |



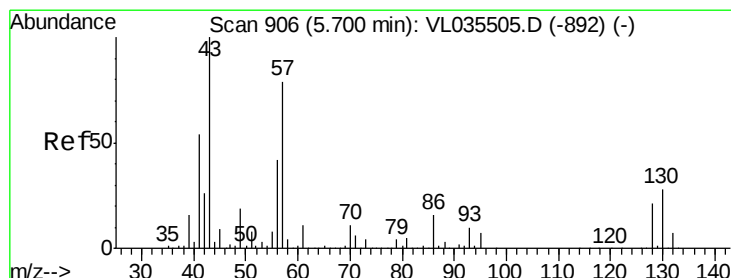
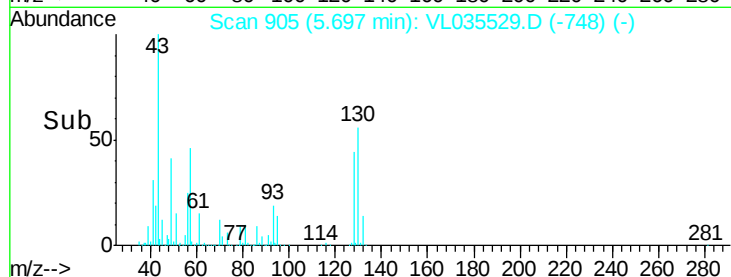
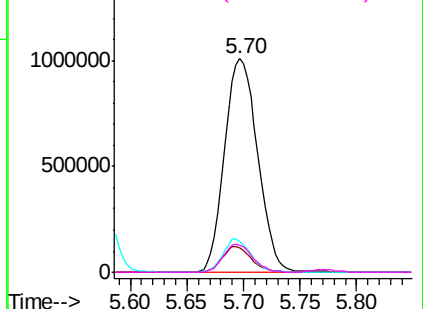
Abundance

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

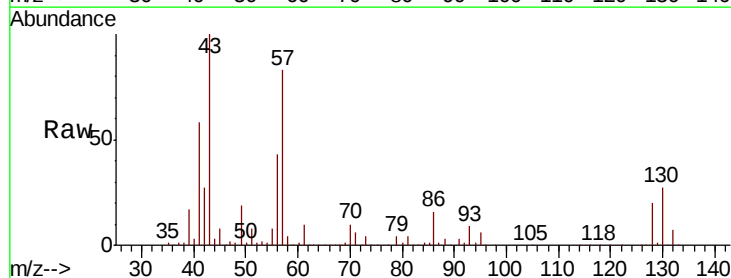
Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 10.537 ppbv  
RT: 5.71 min Scan# 908  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 57 Resp: 1186669

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 70.8  | 55.9  | 83.9  |
| 43  | 173.9 | 141.8 | 212.8 |
| 56  | 52.8  | 41.8  | 62.8  |



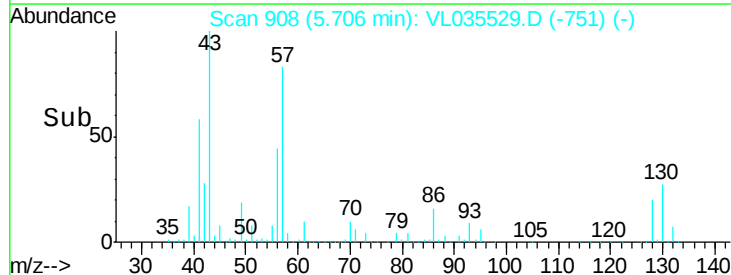
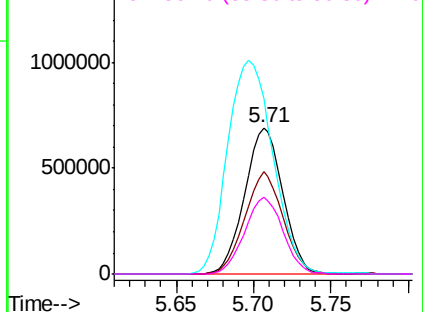
Abundance

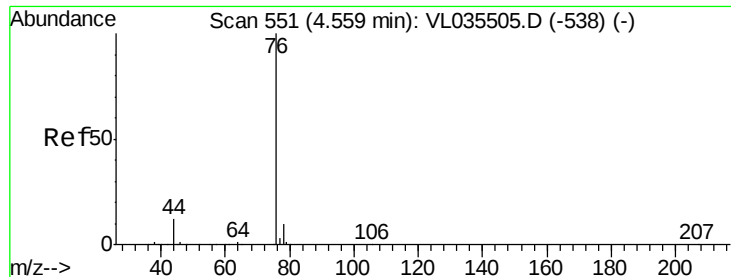
Ion 57.10 (56.80 to 57.80): VL0

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: 12.054 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

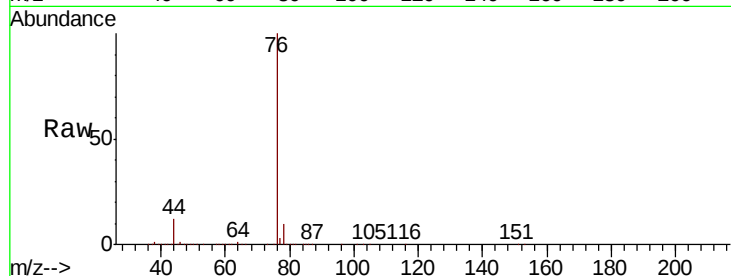
Tot Ion: 76 Resp: 1948022

Ion Ratio Lower Upper

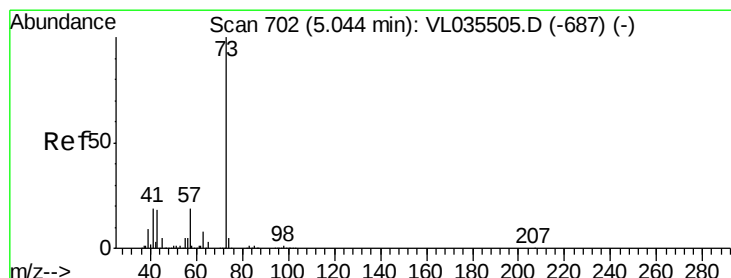
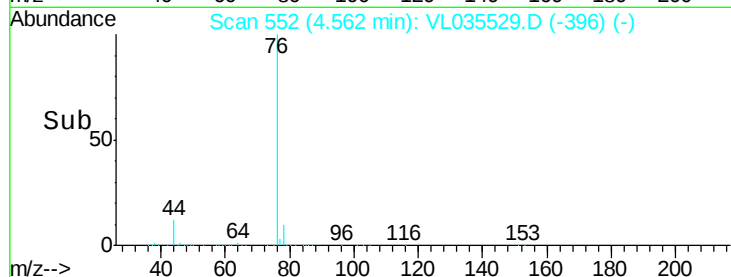
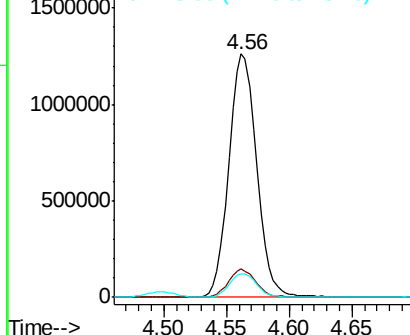
76 100

44 11.1 9.3 13.9

78 9.9 7.8 11.6



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



#28

Methyl tert-Butyl Ether

Concen: 10.890 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL035529.D

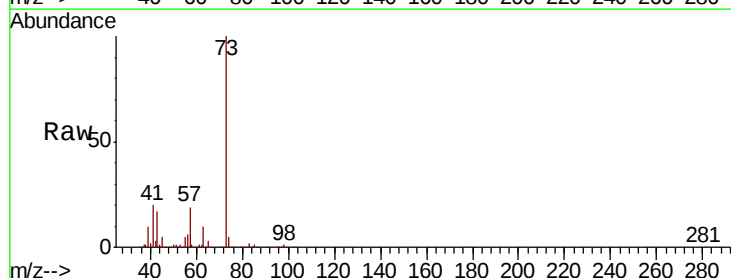
Acq: 3 Sep 2020 13:49

Tgt Ion: 73 Resp: 2137494

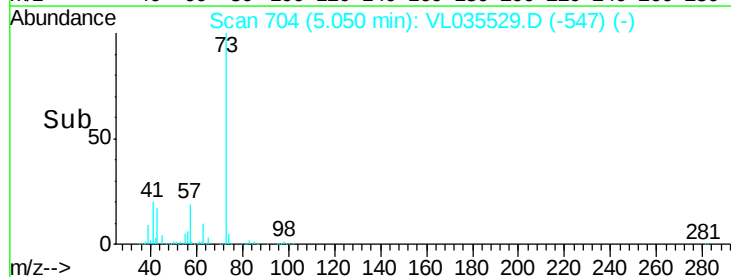
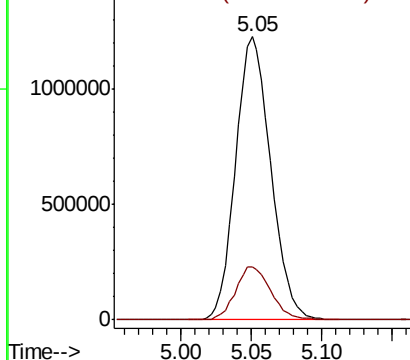
Ion Ratio Lower Upper

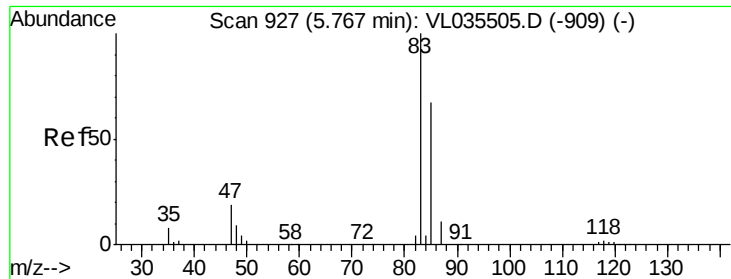
73 100

57 18.9 15.2 22.8



Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0

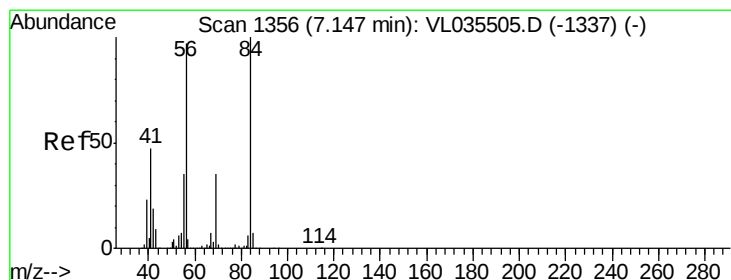
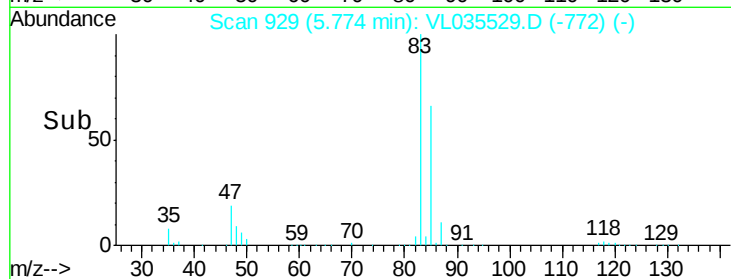
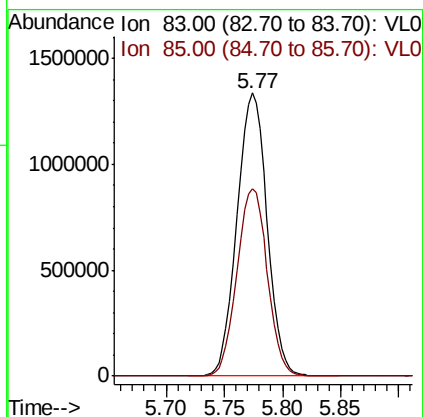
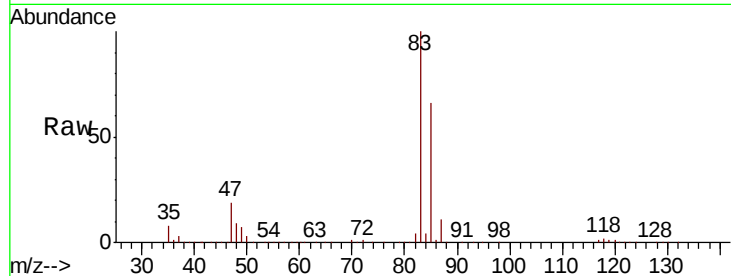




#29  
Chloroform  
Concen: 10.486 ppbv  
RT: 5.77 min Scan# 929  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

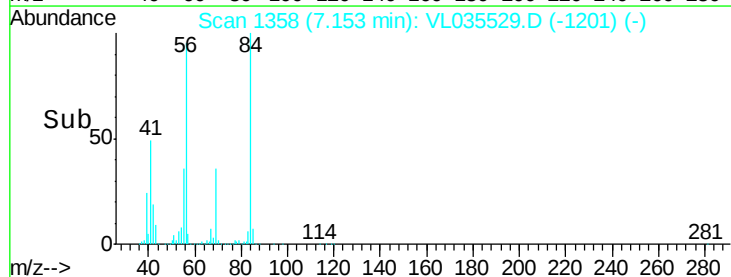
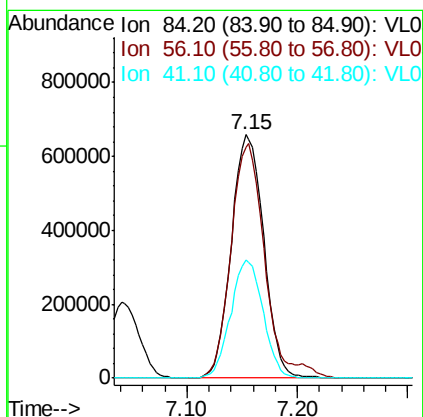
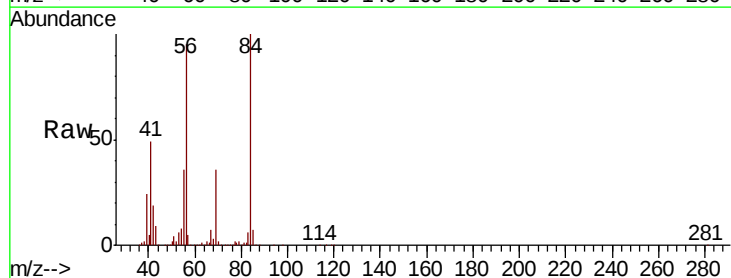
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

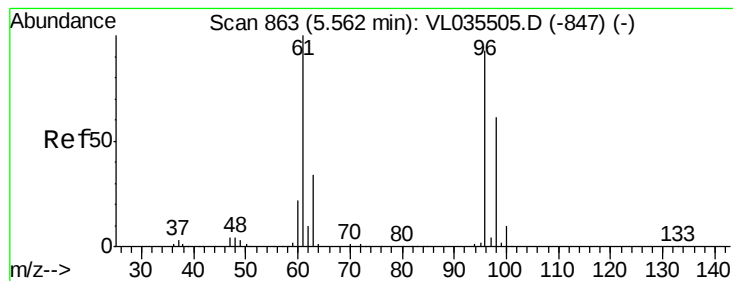
Tot Ion: 83 Resp: 2406031  
Ion Ratio Lower Upper  
83 100  
85 66.3 53.9 80.9



#30  
Cyclohexane  
Concen: 11.149 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 84 Resp: 1344974  
Ion Ratio Lower Upper  
84 100  
56 100.7 80.1 120.1  
41 48.1 38.1 57.1





#31

cis-1,2-Dichloroethene

Concen: 11.043 ppbv

RT: 5.57 min Scan# 865

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

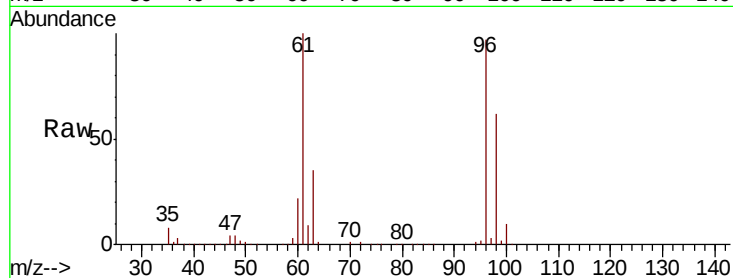
Tot Ion: 61 Resp: 1275909

Ion Ratio Lower Upper

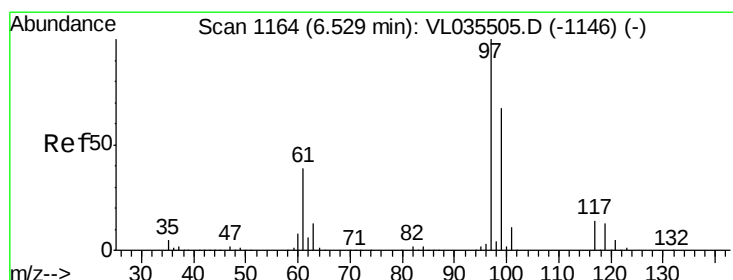
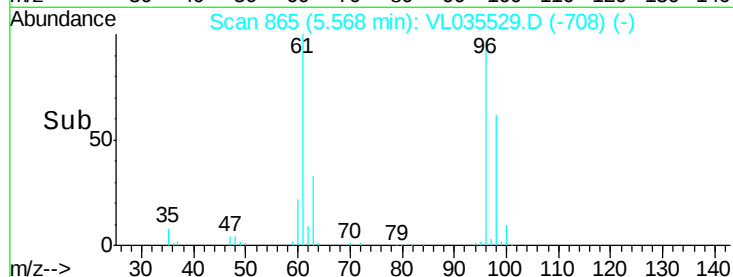
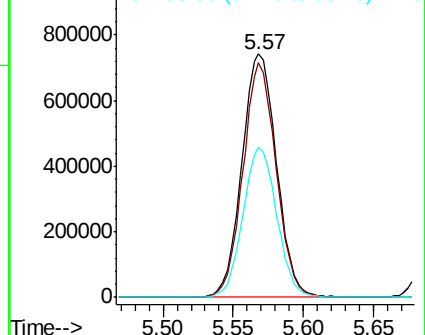
61 100

96 96.4 74.4 111.6

98 61.8 49.2 73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.756 ppbv

RT: 6.54 min Scan# 1166

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

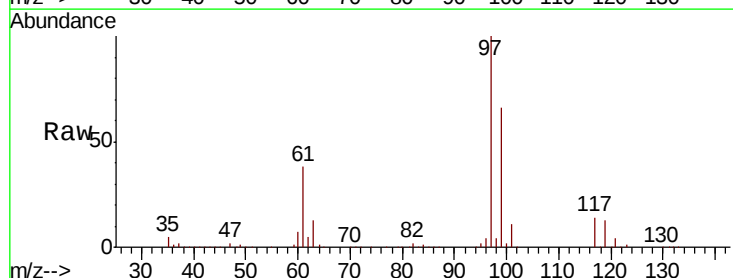
Tgt Ion: 97 Resp: 2394109

Ion Ratio Lower Upper

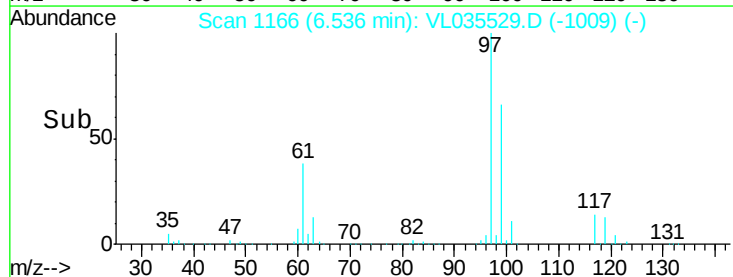
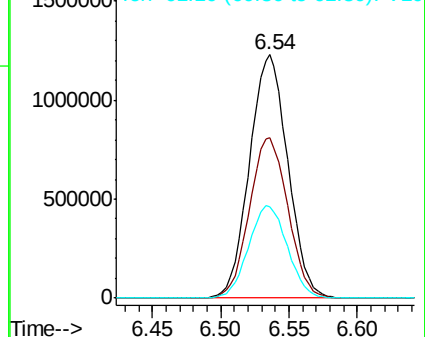
97 100

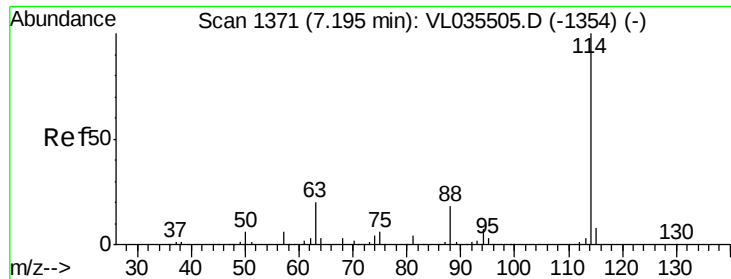
99 66.3 53.3 79.9

61 38.5 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0

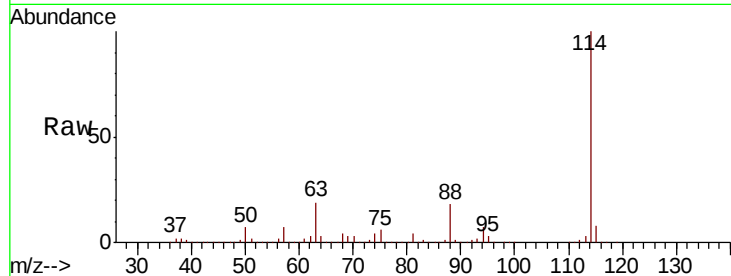




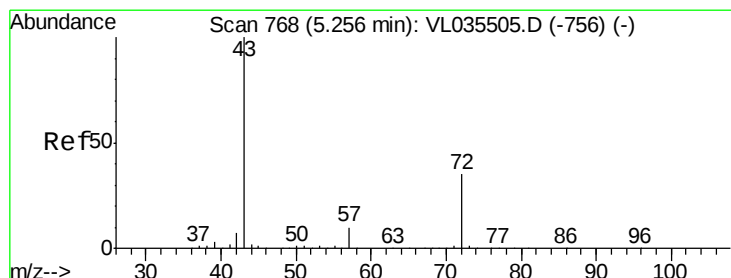
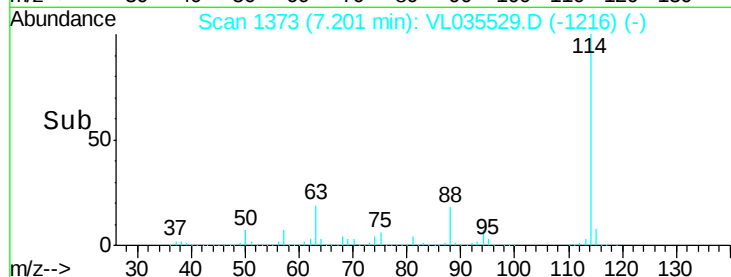
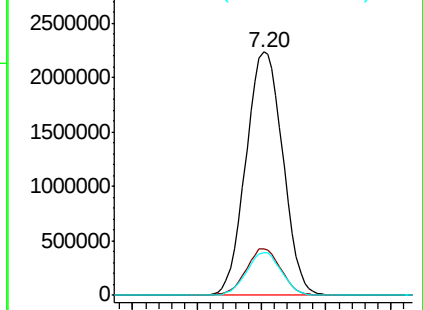
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.20 min Scan# 1373  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

Tot Ion:114 Resp: 4471619  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 14.7 22.1  
 88 16.7 13.4 20.2

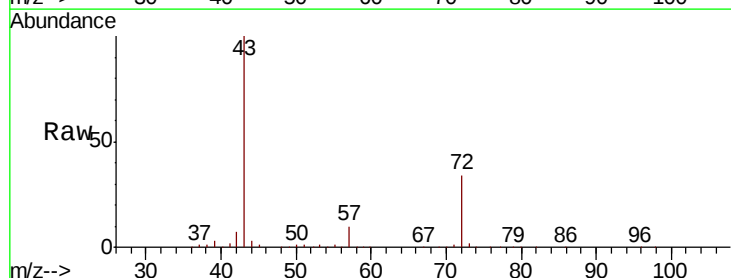


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

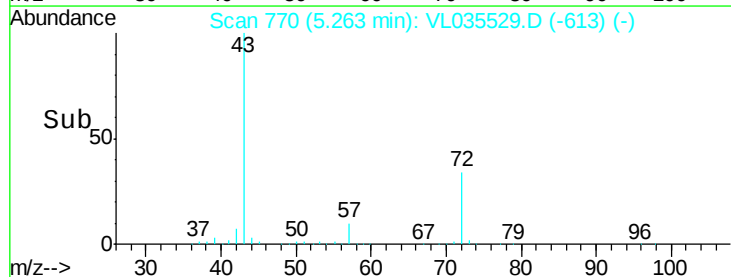
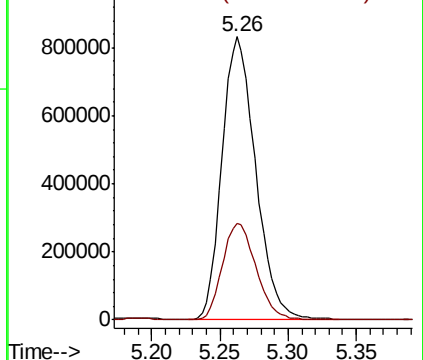


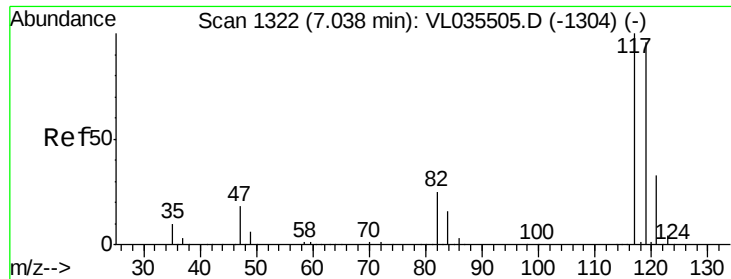
#34  
 2-Butanone  
 Concen: 10.745 ppbv  
 RT: 5.26 min Scan# 770  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Tgt Ion: 43 Resp: 1425875  
 Ion Ratio Lower Upper  
 43 100  
 72 34.3 27.7 41.5



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





#35

Carbon Tetrachloride

Concen: 11.181 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

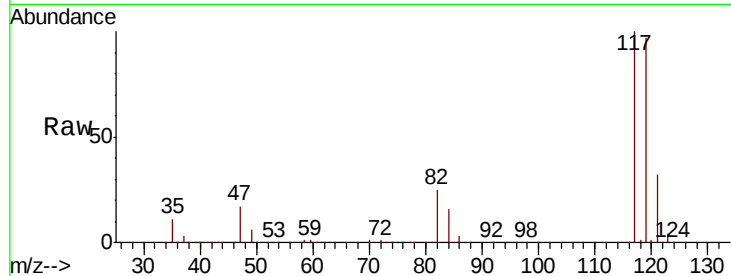
Tot Ion:117 Resp: 2512882

Ion Ratio Lower Upper

117 100

119 97.0 77.2 115.8

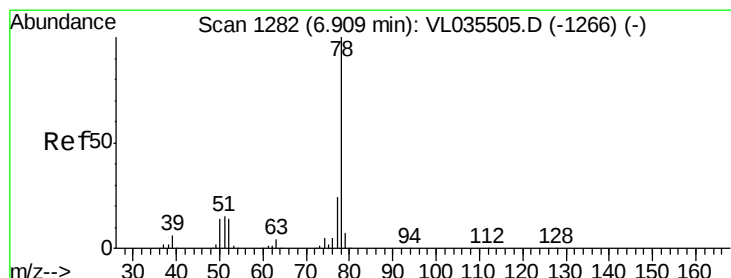
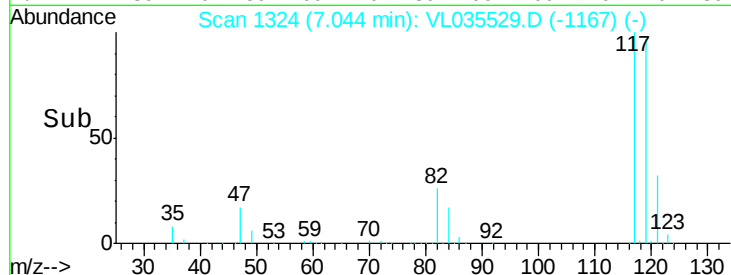
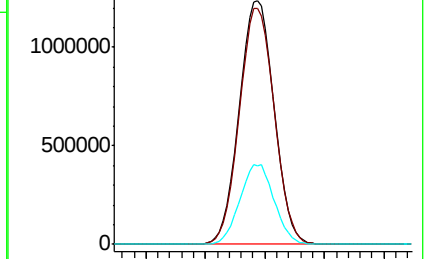
121 32.4 26.1 39.1



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: 10.673 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

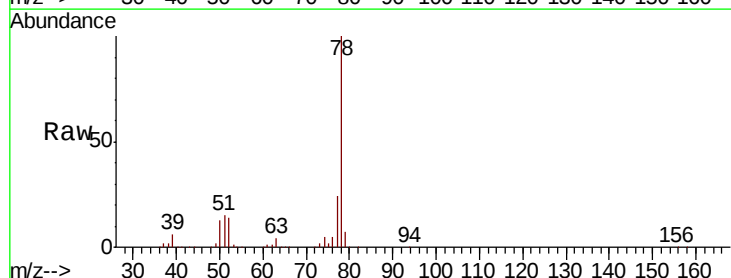
Tgt Ion: 78 Resp: 3089401

Ion Ratio Lower Upper

78 100

77 23.8 19.3 28.9

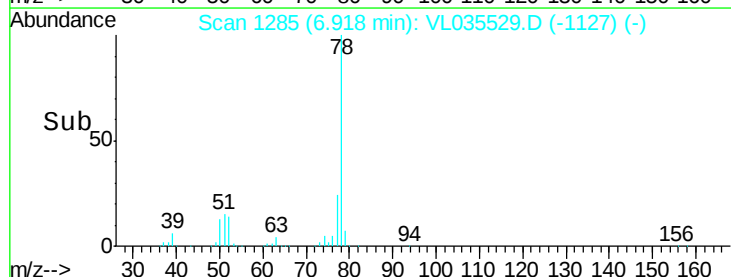
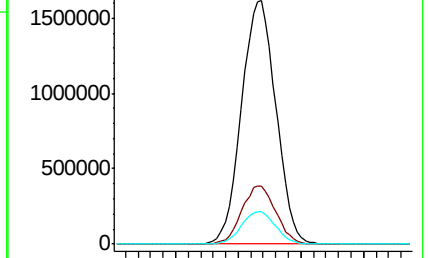
50 13.3 11.0 16.6

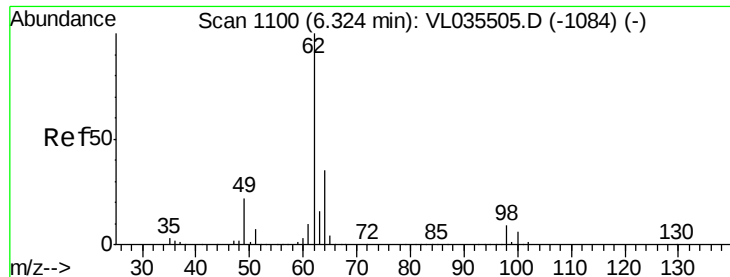


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

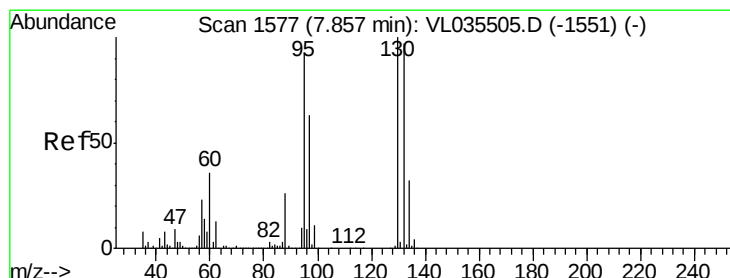
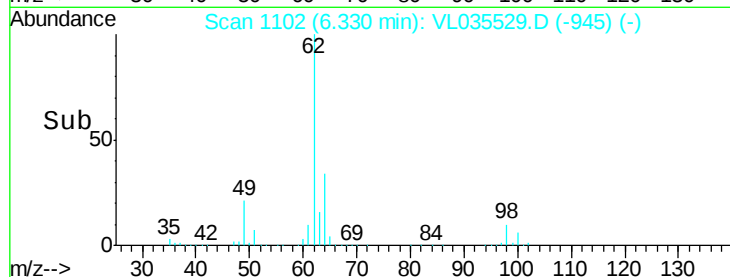
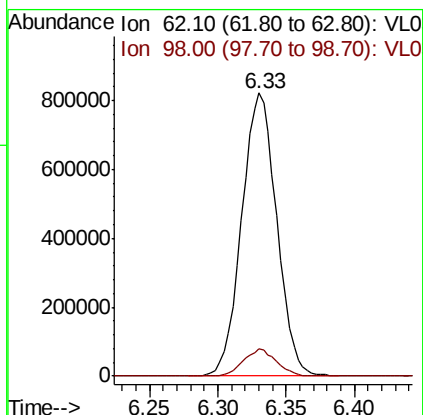
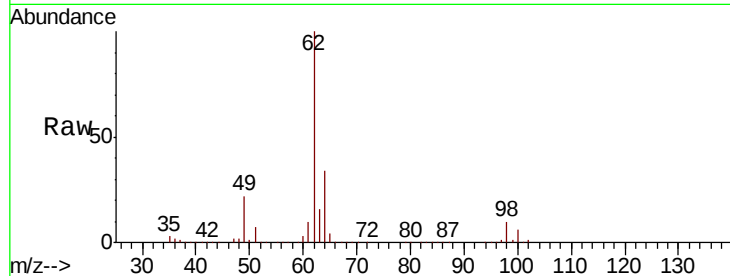




#37  
 1,2-Dichloroethane  
 Concen: 10.602 ppbv  
 RT: 6.33 min Scan# 1102  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

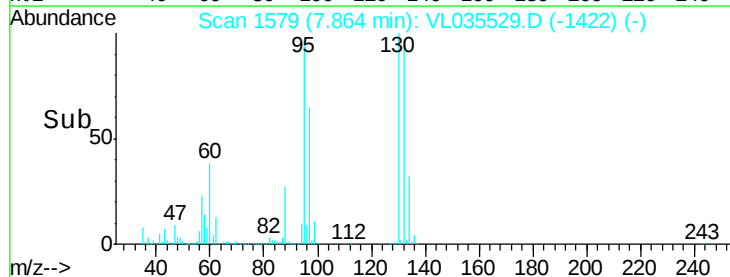
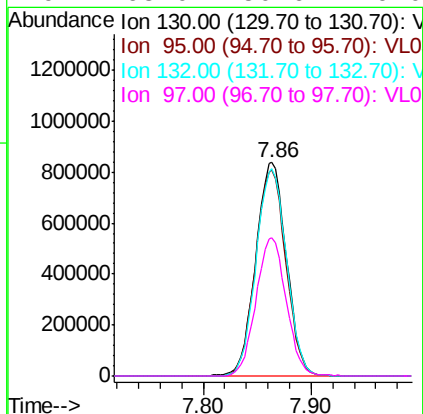
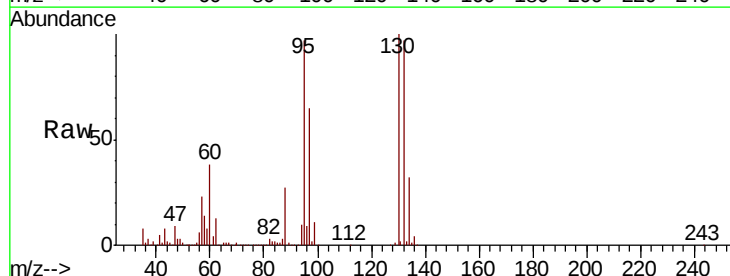
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

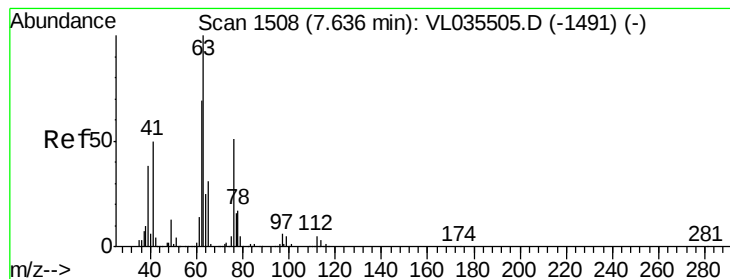
Tot Ion: 62 Resp: 1463034  
 Ion Ratio Lower Upper  
 62 100  
 98 9.2 7.4 11.0



#38  
 Trichloroethene  
 Concen: 9.825 ppbv  
 RT: 7.86 min Scan# 1579  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Tgt Ion:130 Resp: 1651978  
 Ion Ratio Lower Upper  
 130 100  
 95 96.8 74.6 112.0  
 132 97.0 77.6 116.4  
 97 65.0 50.6 76.0





#39

1,2-Dichloropropane

Concen: 10.566 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

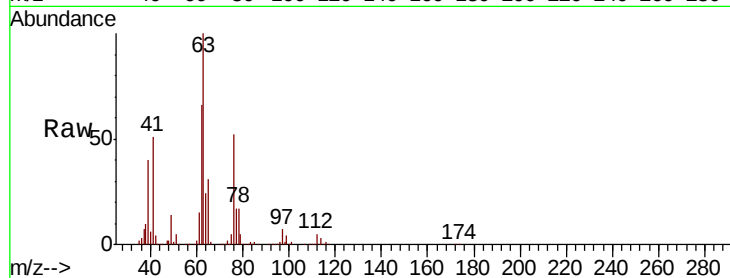
Tot Ion: 63 Resp: 1033188

Ion Ratio Lower Upper

63 100

41 51.0 40.0 60.0

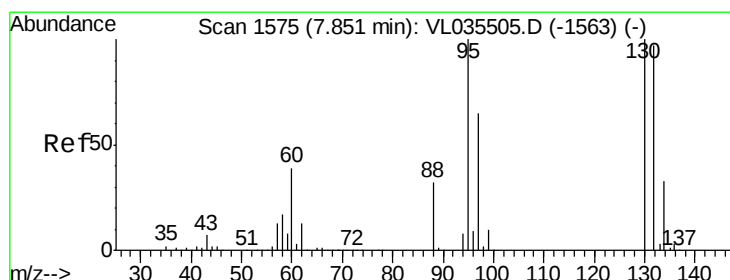
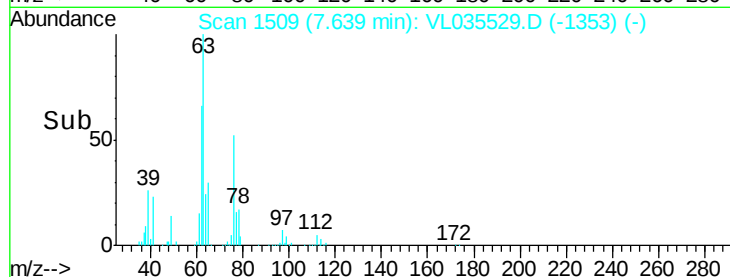
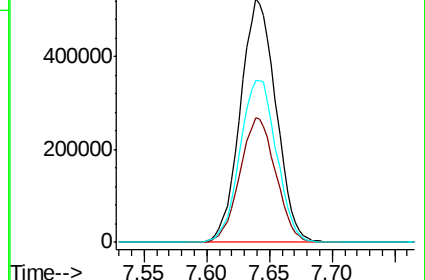
62 66.3 55.4 83.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.463 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion: 88 Resp: 559947

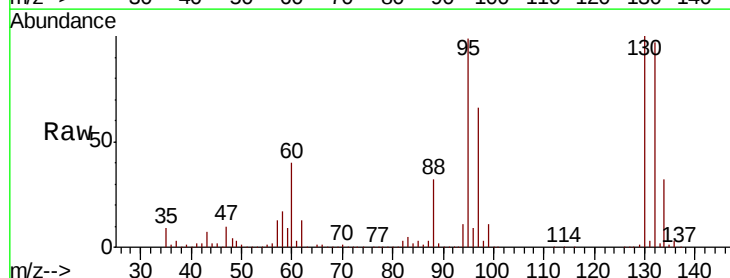
Ion Ratio Lower Upper

88 100

58 88.5 68.7 103.1

43 131.3 104.3 156.5

57 710.5 560.7 841.1

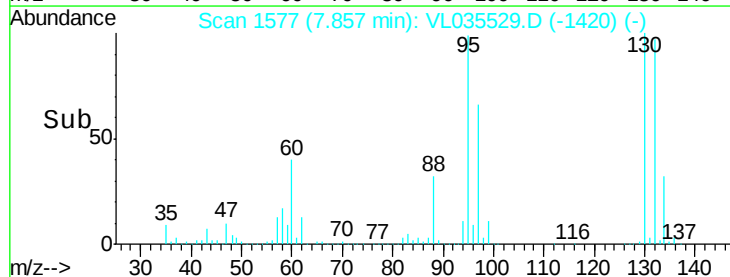
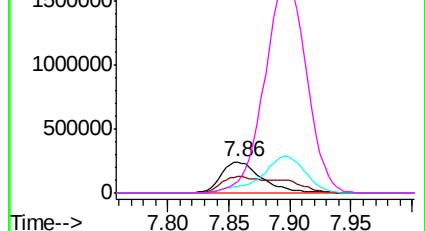


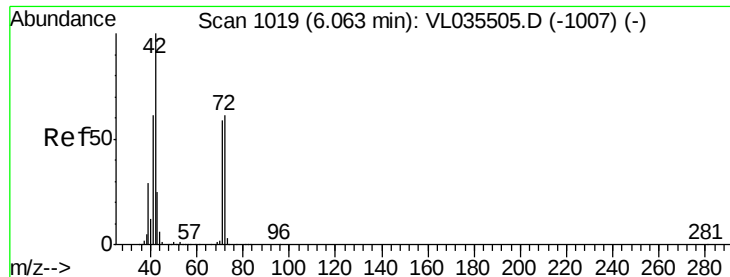
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.538 ppbv

RT: 6.07 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

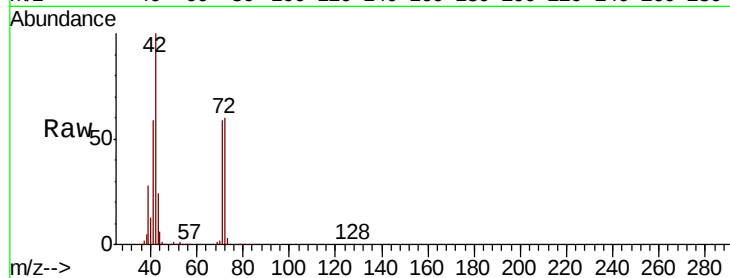
Tot Ion: 42 Resp: 811934

Ion Ratio Lower Upper

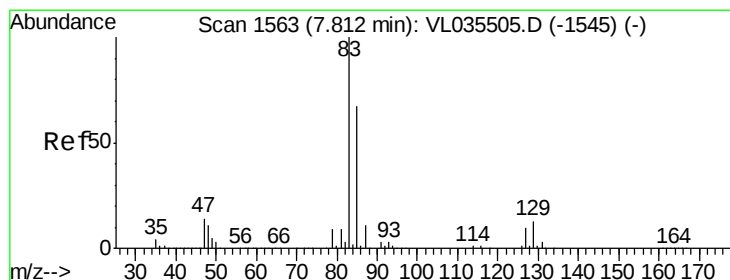
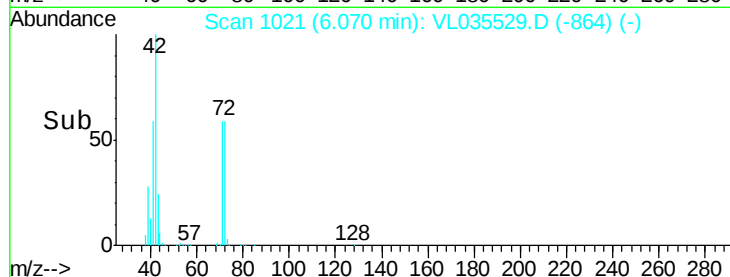
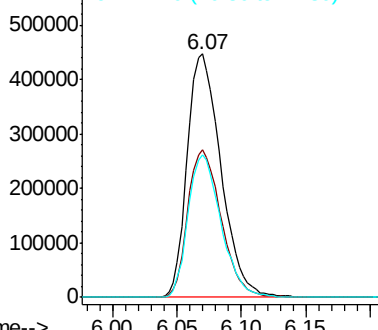
42 100

72 60.4 48.6 73.0

71 57.5 46.1 69.1



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 11.361 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

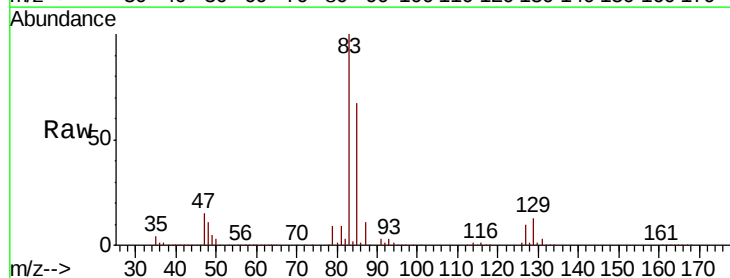
Tgt Ion: 83 Resp: 2535451

Ion Ratio Lower Upper

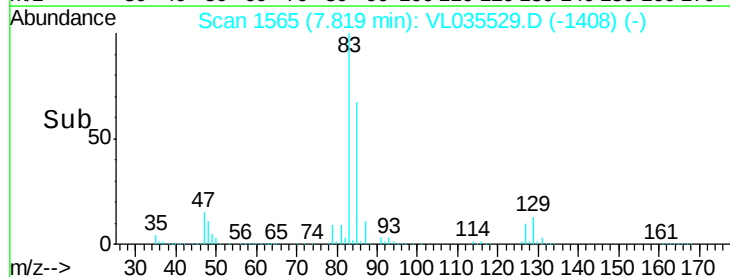
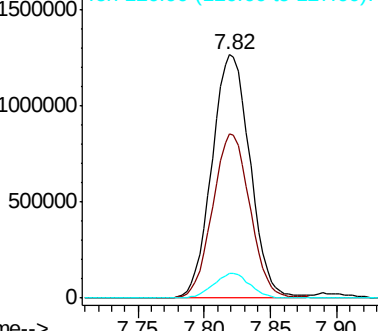
83 100

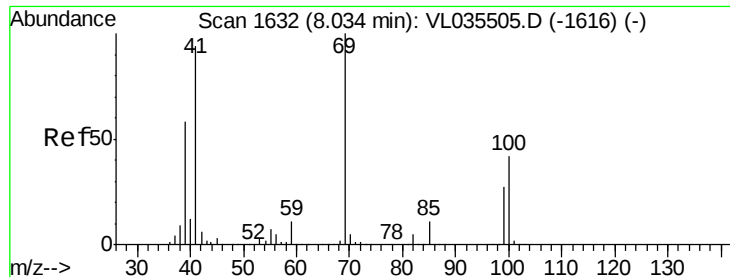
85 67.4 53.7 80.5

127 10.0 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V

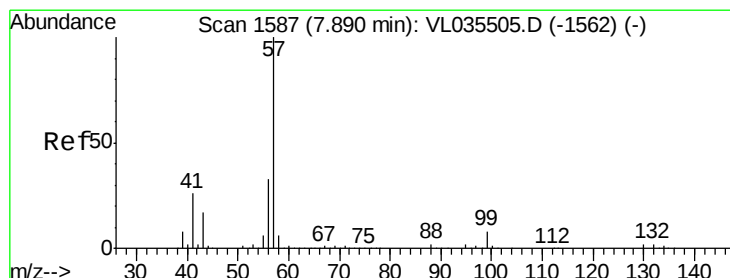
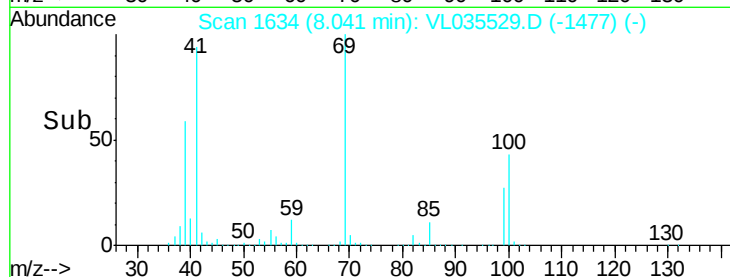
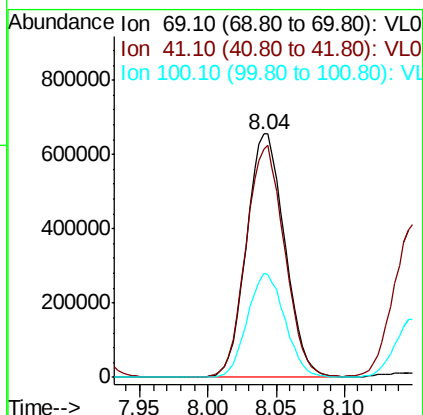
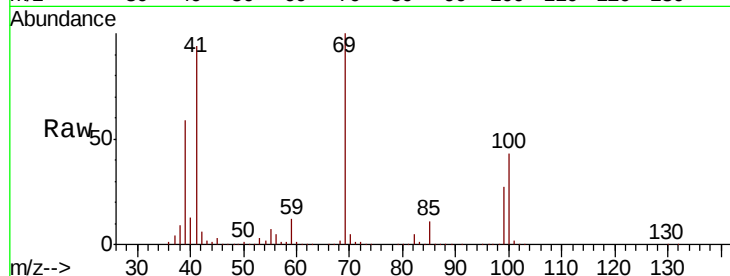




#43  
Methvl Methacrilate  
Concen: 11.442 ppbv  
RT: 8.04 min Scan# 1634  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

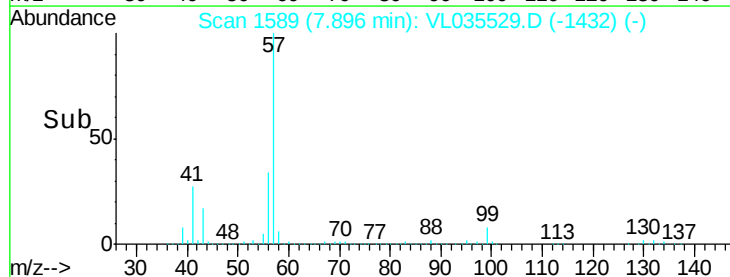
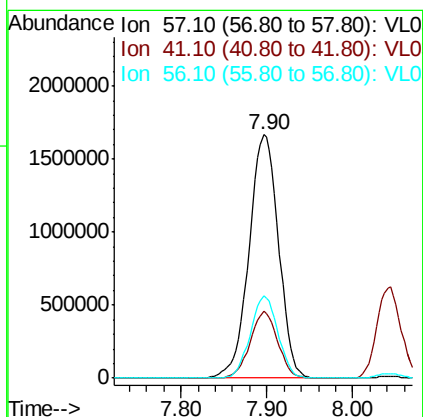
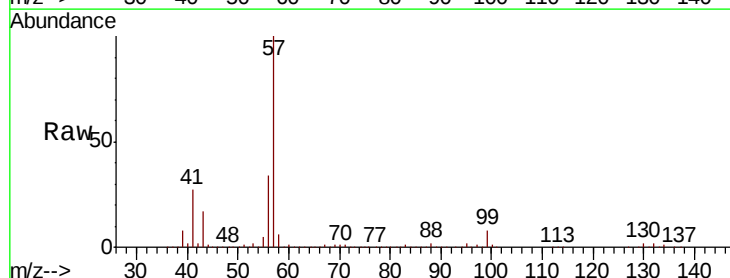
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

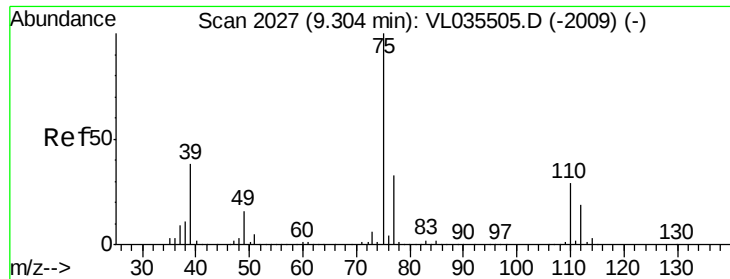
Tot Ion: 69 Resp: 1280626  
Ion Ratio Lower Upper  
69 100  
41 95.5 76.6 114.8  
100 41.9 33.8 50.6



#44  
2,2,4-Trimethylpentane  
Concen: 10.439 ppbv  
RT: 7.90 min Scan# 1589  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 57 Resp: 3975702  
Ion Ratio Lower Upper  
57 100  
41 25.6 20.5 30.7  
56 31.6 25.3 37.9

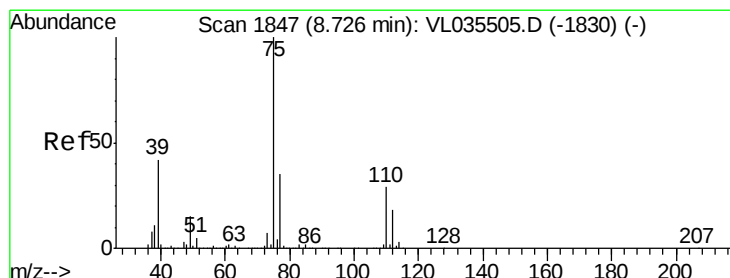
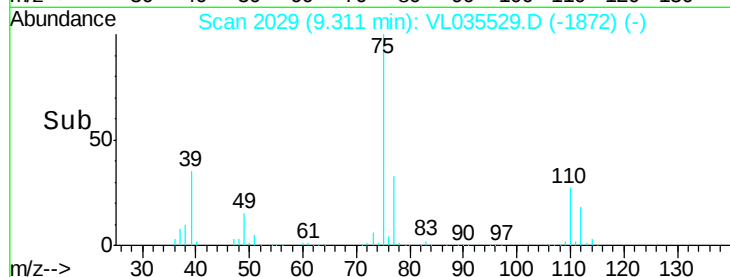
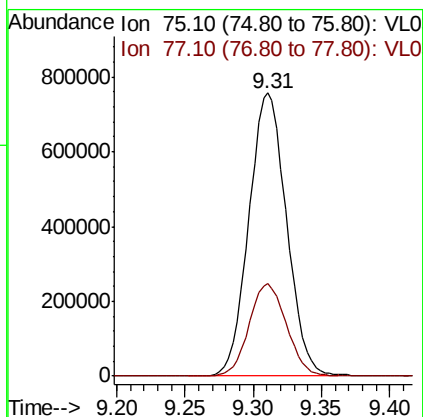
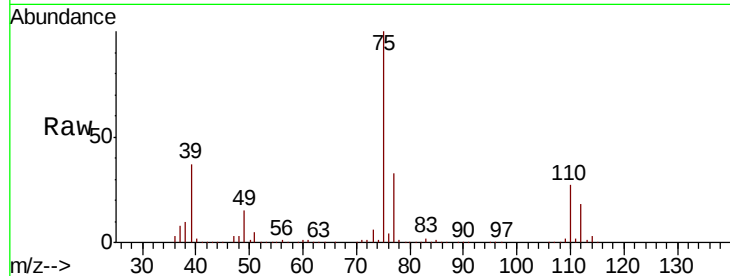




#45  
t-1,3-Dichloropropene  
Concen: 12.786 ppbv  
RT: 9.31 min Scan# 2029  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

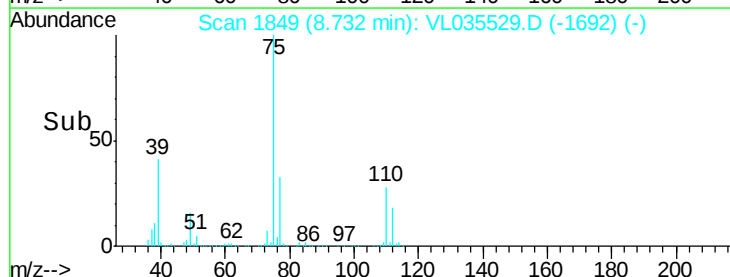
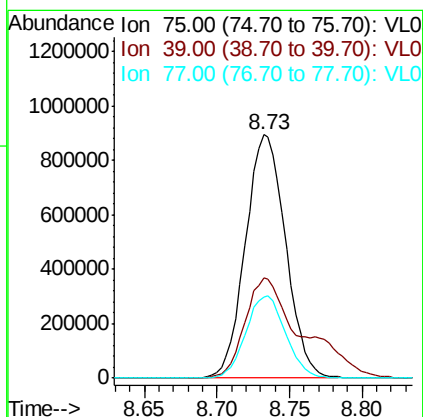
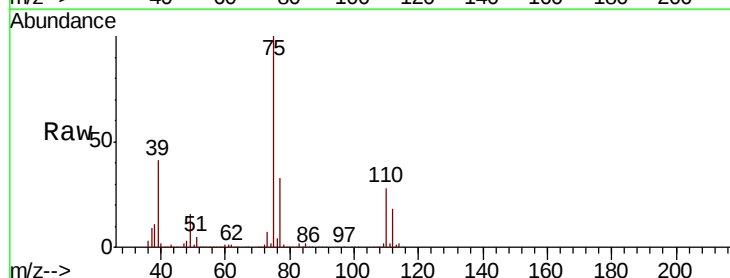
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

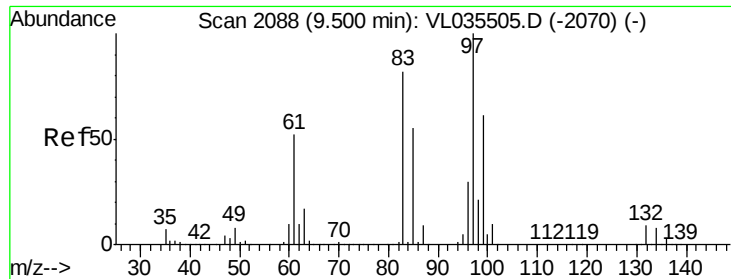
Tot Ion: 75 Resp: 1449673  
Ion Ratio Lower Upper  
75 100  
77 32.7 26.5 39.7



#46  
cis-1,3-Dichloropropene  
Concen: 12.244 ppbv  
RT: 8.73 min Scan# 1849  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 75 Resp: 1723673  
Ion Ratio Lower Upper  
75 100  
39 41.2 33.7 50.5  
77 33.3 27.8 41.6



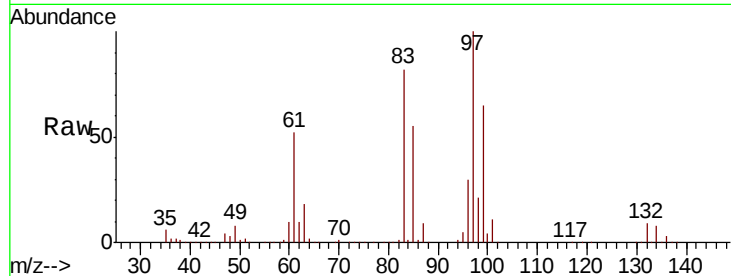


#47  
 1,1,2-Trichloroethane  
 Concen: 10.634 ppbv  
 RT: 9.51 min Scan# 2091  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

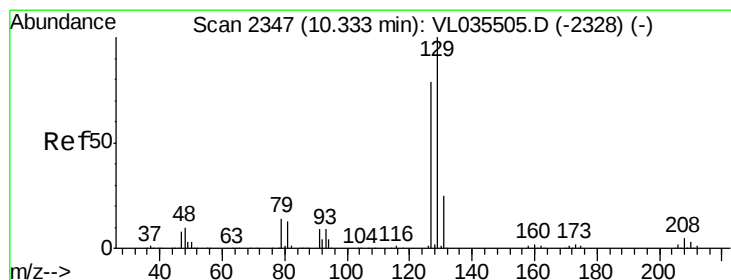
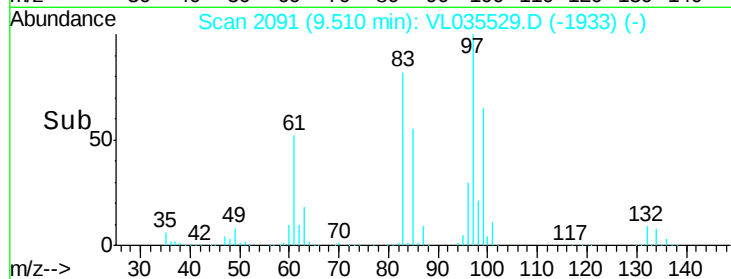
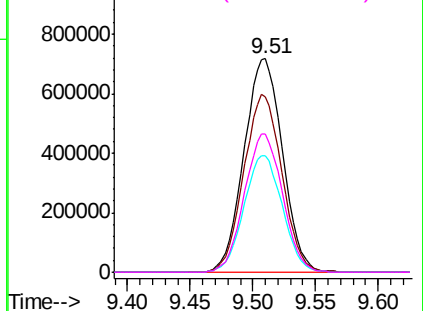
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

Tot Ion: 97 Resp: 1534250

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.4  | 65.4  | 98.2  |
| 85  | 54.6  | 43.7  | 65.5  |
| 99  | 64.8  | 49.1  | 73.7  |



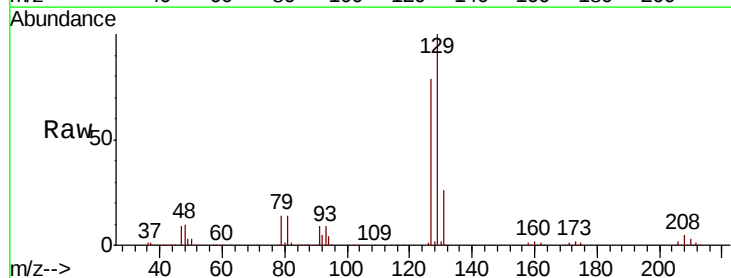
Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0



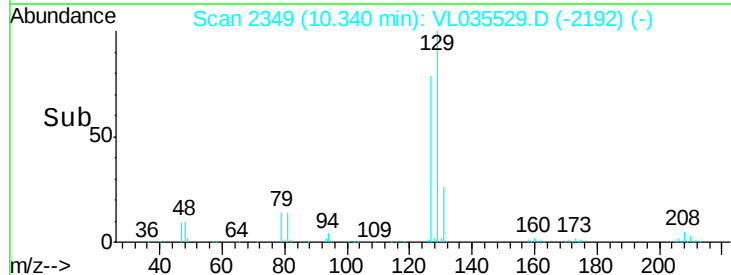
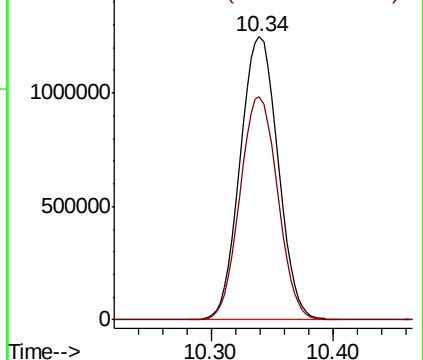
#48  
 Dibromochloromethane  
 Concen: 11.798 ppbv  
 RT: 10.34 min Scan# 2349  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

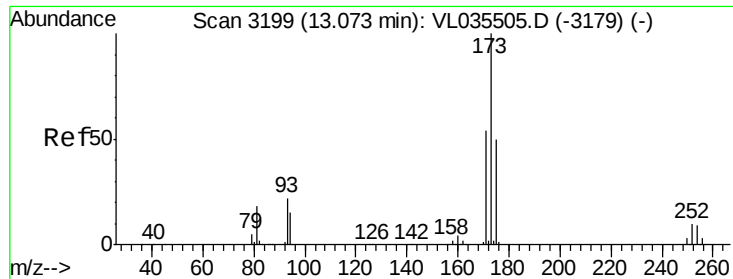
Tgt Ion: 129 Resp: 2679032

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.7  | 39.3  | 117.8 |



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.465 ppbv

RT: 13.08 min Scan# 3202

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

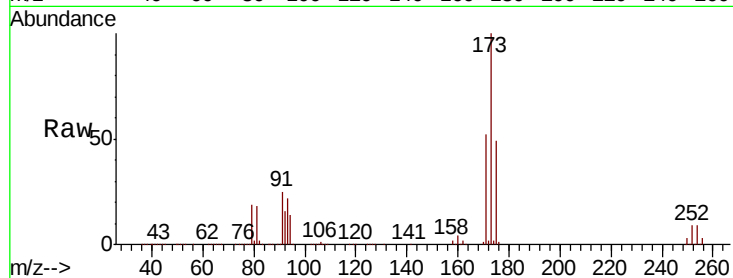
Tot Ion:173 Resp: 2565270

Ion Ratio Lower Upper

173 100

175 50.0 39.8 59.8

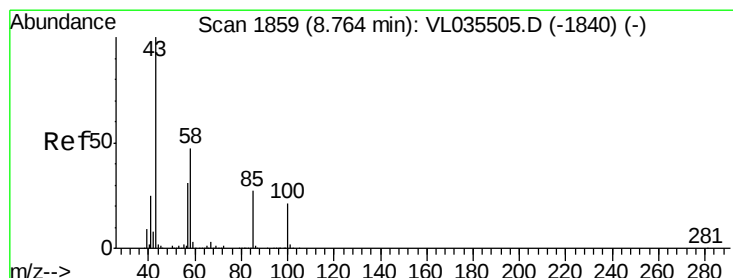
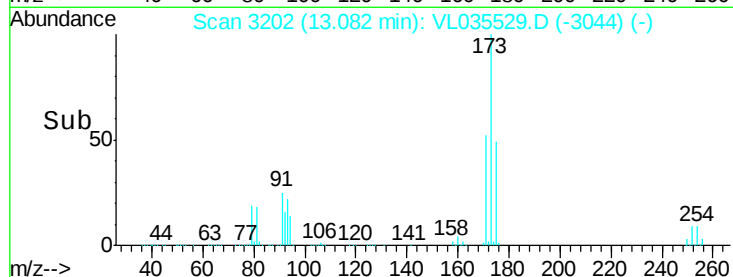
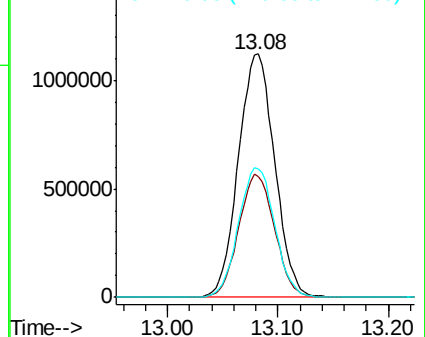
171 53.3 42.4 63.6



Abundance Ion 172.90 (172.60 to 173.60): V

1500000 Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.077 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.01 min

Lab File: VL035529.D

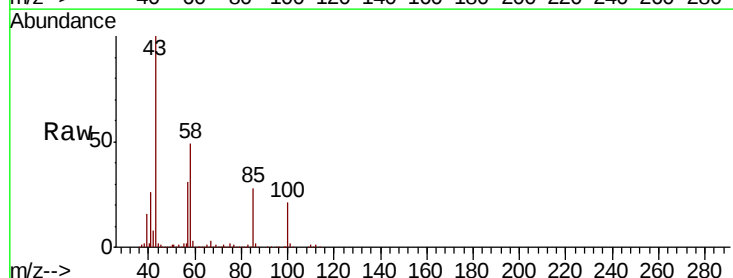
Acq: 3 Sep 2020 13:49

Tgt Ion: 43 Resp: 2128581

Ion Ratio Lower Upper

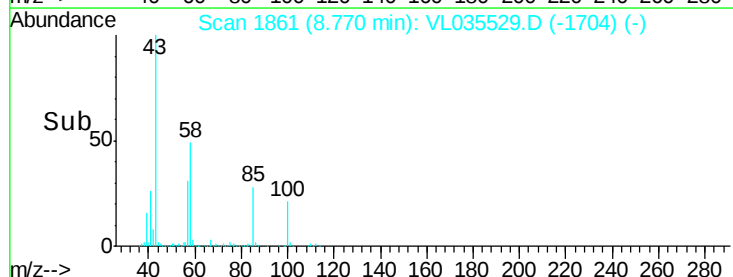
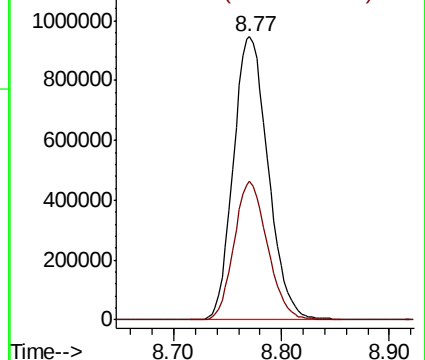
43 100

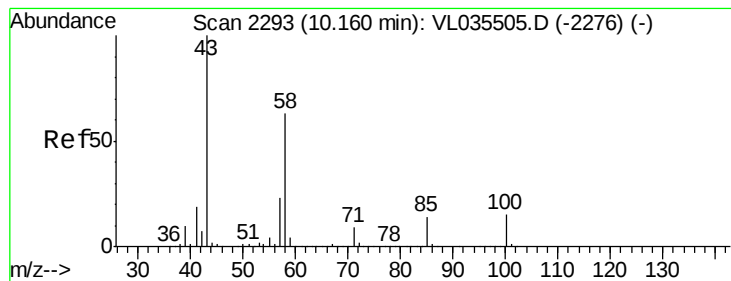
58 47.1 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.641 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

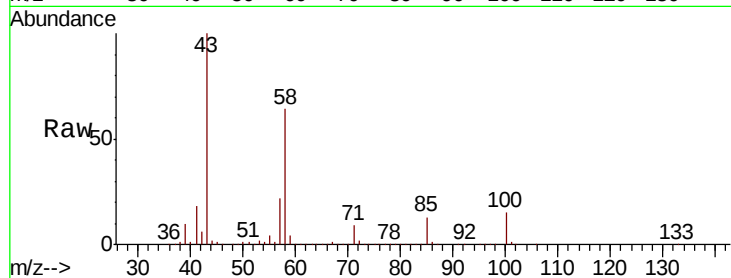
Tot Ion: 43 Resp: 1834972

Ion Ratio Lower Upper

43 100

58 62.6 50.2 75.4

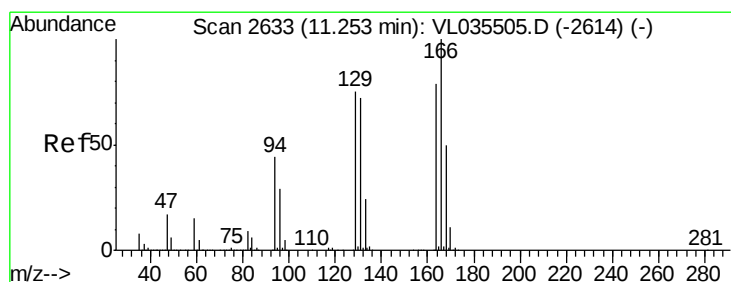
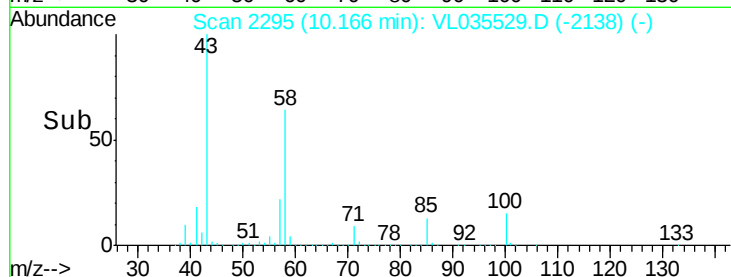
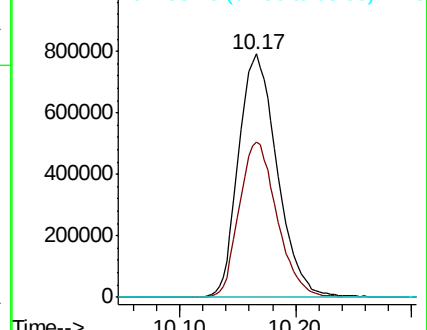
98 0.5 0.4 0.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.001 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion: 164 Resp: 1691182

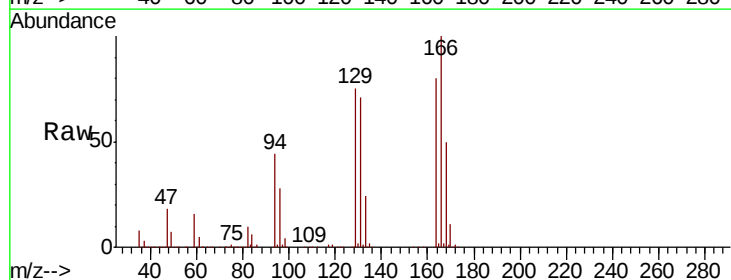
Ion Ratio Lower Upper

164 100

166 125.2 100.9 151.3

129 93.5 75.3 112.9

131 89.4 73.0 109.4

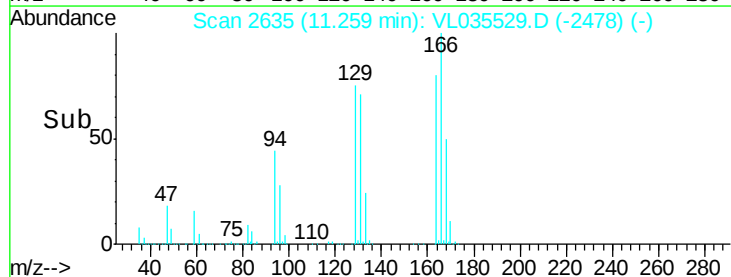
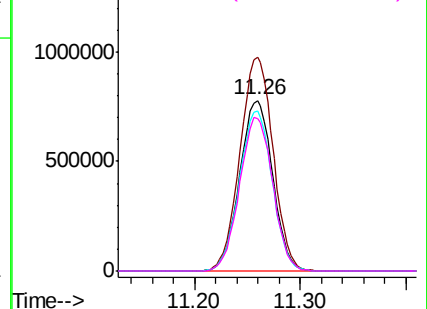


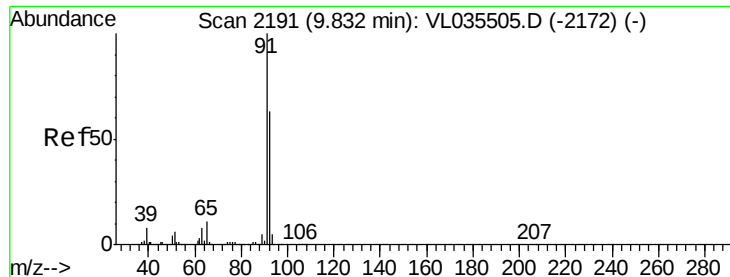
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.853 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

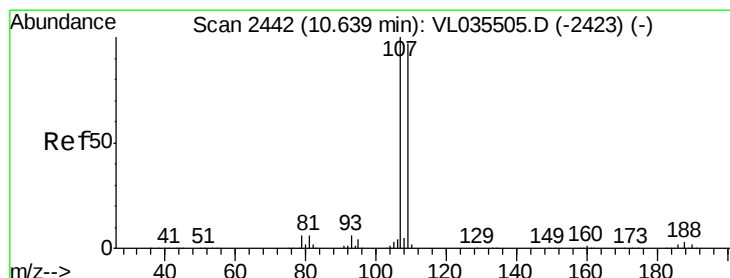
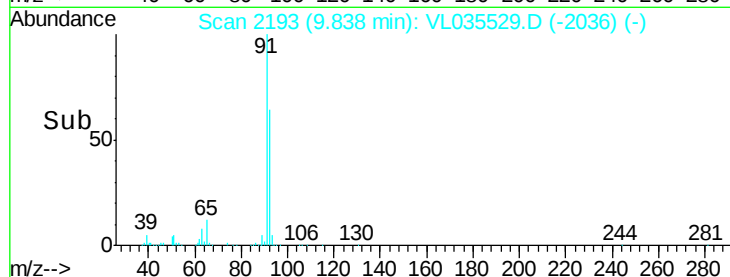
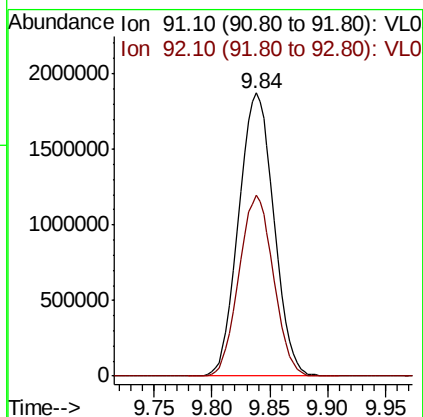
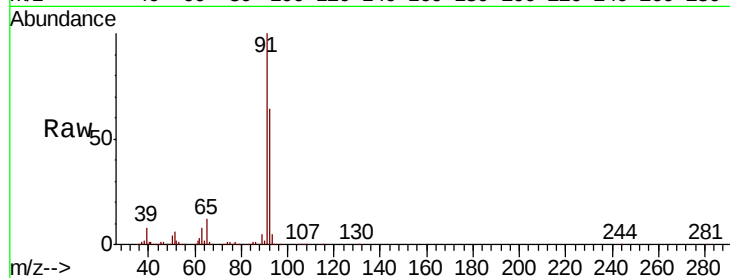
VL0903ABS01

Tot Ion: 91 Resp: 3950564

Ion Ratio Lower Upper

91 100

92 62.6 49.8 74.8



#54

1,2-Dibromoethane

Concen: 10.781 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.01 min

Lab File: VL035529.D

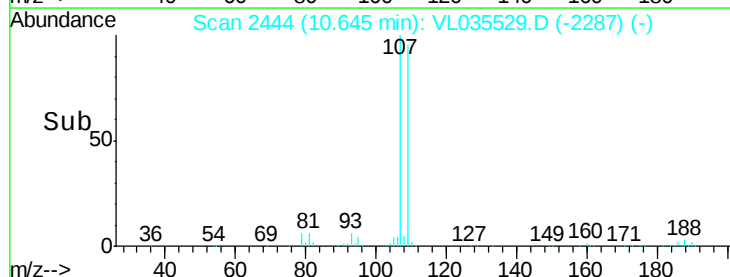
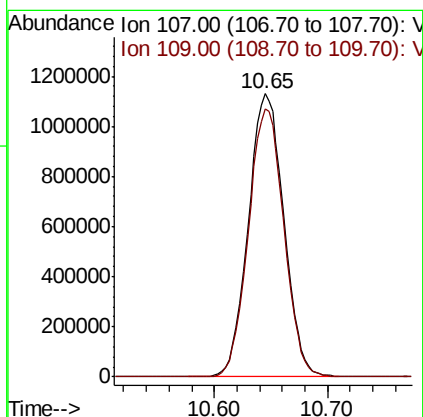
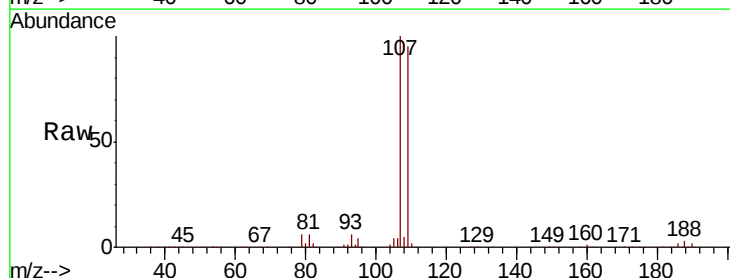
Acq: 3 Sep 2020 13:49

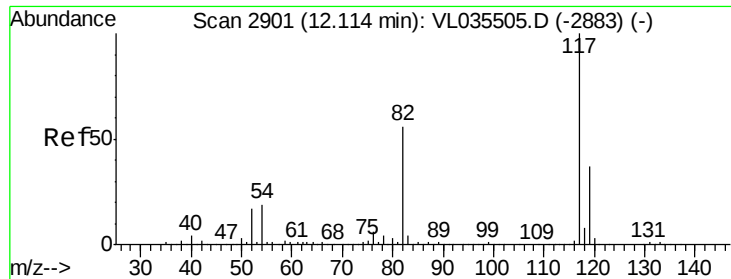
Tgt Ion: 107 Resp: 2457912

Ion Ratio Lower Upper

107 100

109 94.8 77.8 116.8

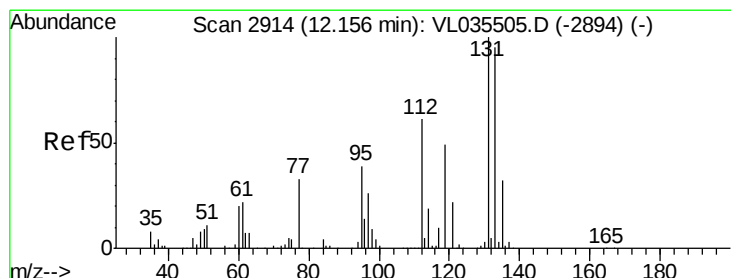
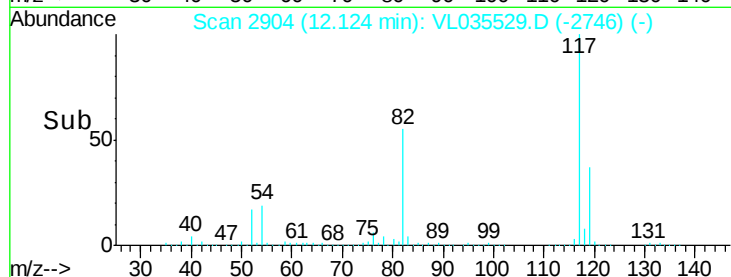
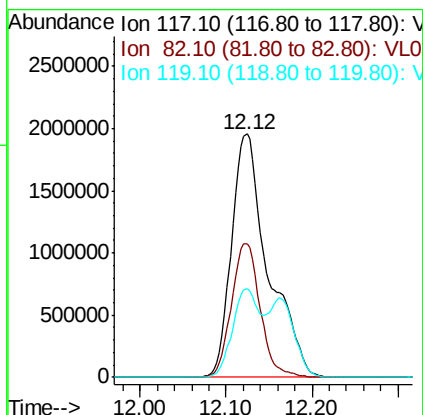
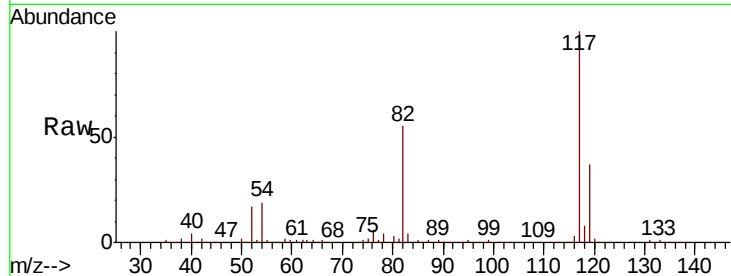




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

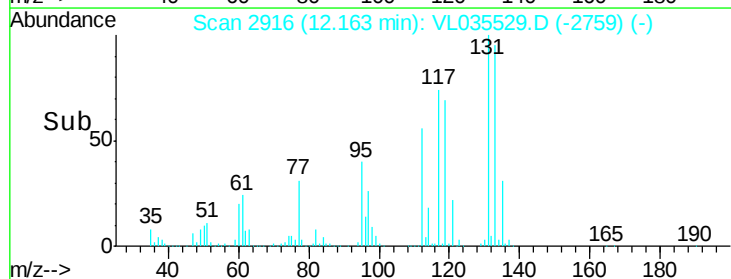
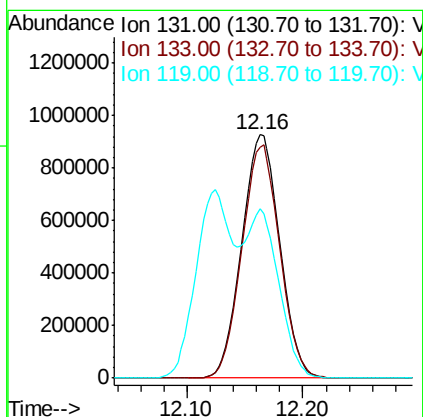
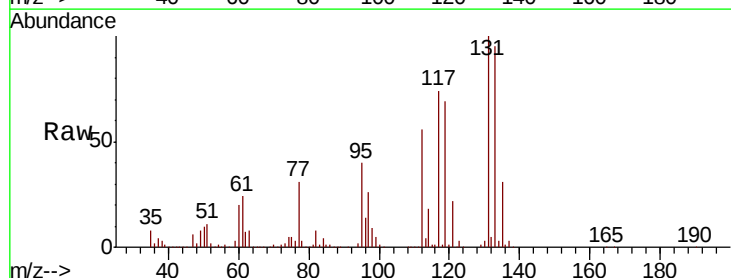
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

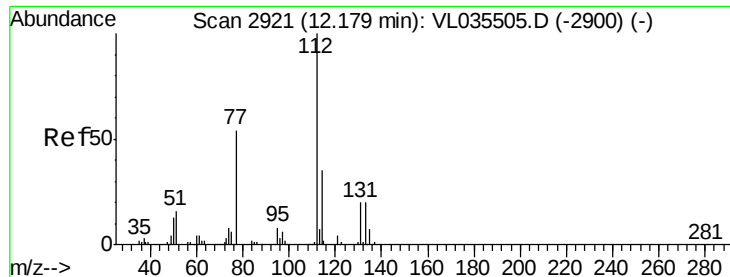
Tot Ion:117 Resp: 5791036  
Ion Ratio Lower Upper  
117 100  
82 43.2 41.6 62.4  
119 28.5 29.3 43.9#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.955 ppbv  
RT: 12.16 min Scan# 2916  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion:131 Resp: 2110020  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.6 115.0  
119 59.4 51.6 77.4

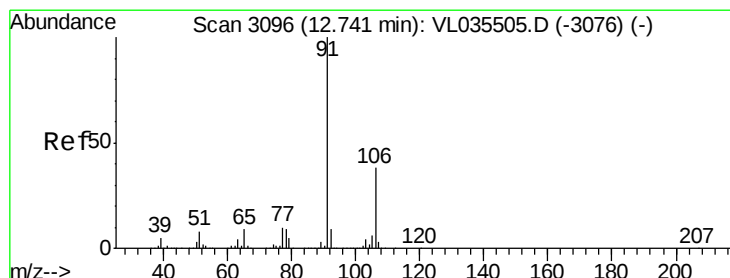
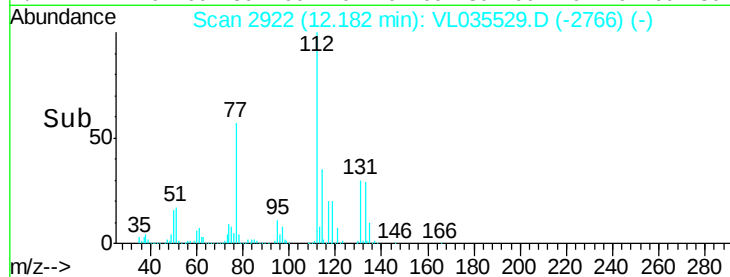
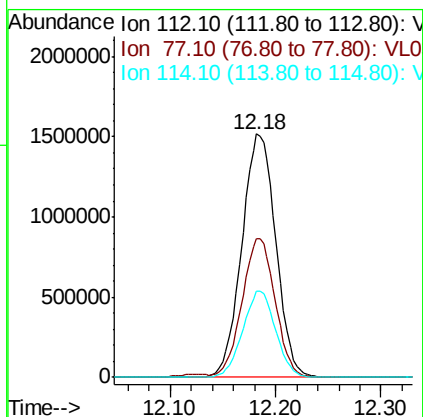
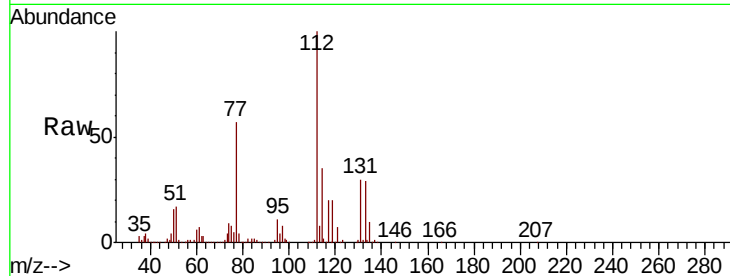




#57  
Chlorobenzene  
Concen: 7.967 ppbv  
RT: 12.18 min Scan# 2922  
Delta R.T. 0.00 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

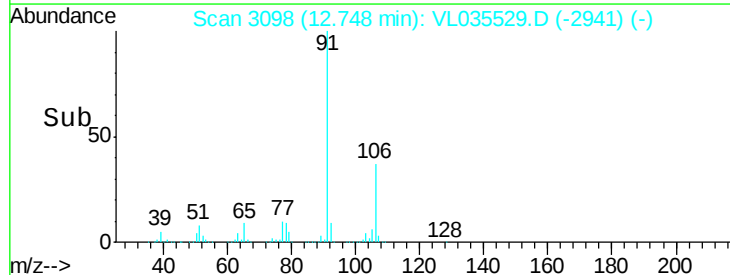
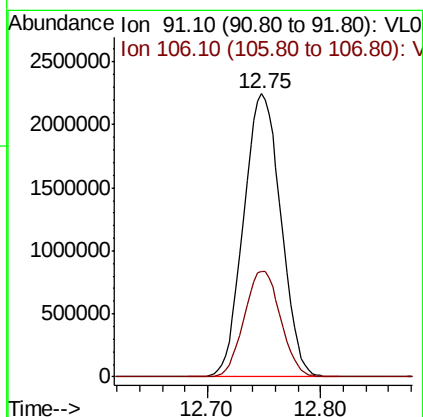
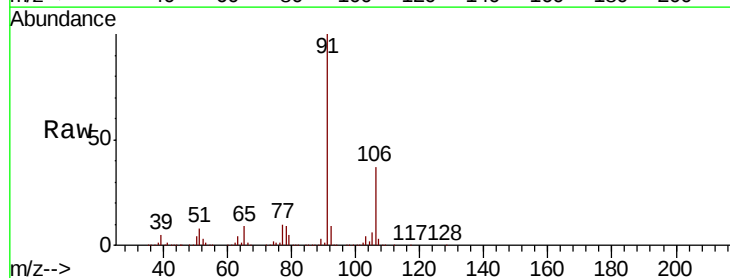
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

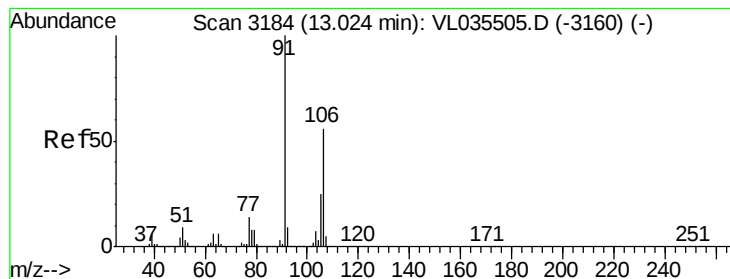
Tot Ion:112 Resp: 3395430  
Ion Ratio Lower Upper  
112 100  
77 56.6 44.2 66.4  
114 35.2 31.6 38.6



#58  
Ethyl Benzene  
Concen: 8.615 ppbv  
RT: 12.75 min Scan# 3098  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 91 Resp: 5144655  
Ion Ratio Lower Upper  
91 100  
106 37.1 30.3 45.5





#59

m/p-Xylene

Concen: 9.035 ppbv

RT: 13.04 min Scan# 3188

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

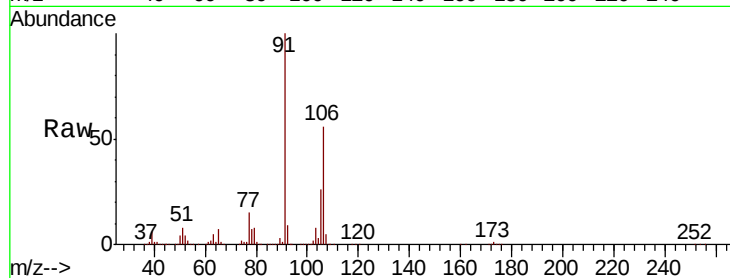
VL0903ABS01

Tot Ion: 91 Resp: 4508626

Ion Ratio Lower Upper

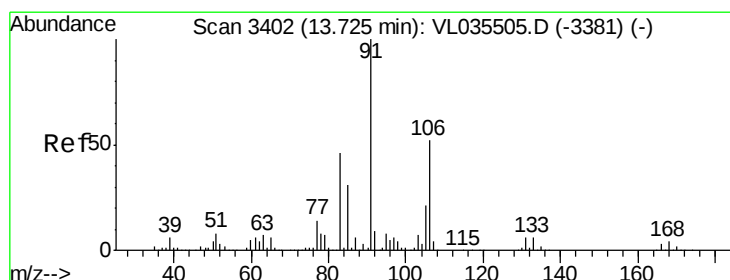
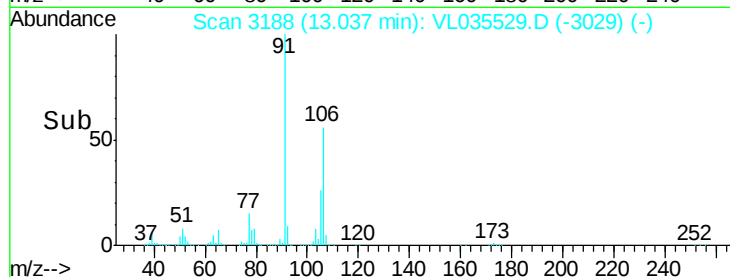
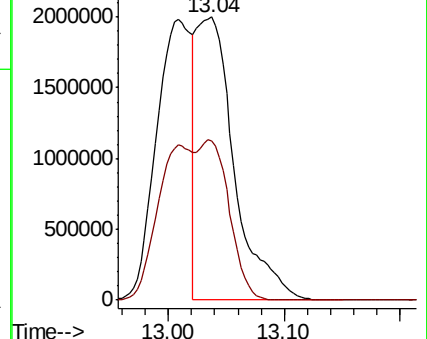
91 100

106 99.6 43.4 65.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 8.467 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. 0.01 min

Lab File: VL035529.D

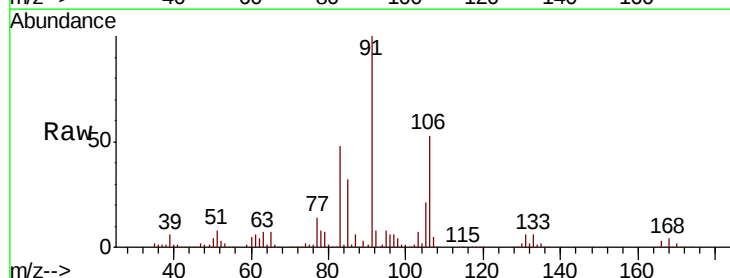
Acq: 3 Sep 2020 13:49

Tgt Ion: 91 Resp: 4255390

Ion Ratio Lower Upper

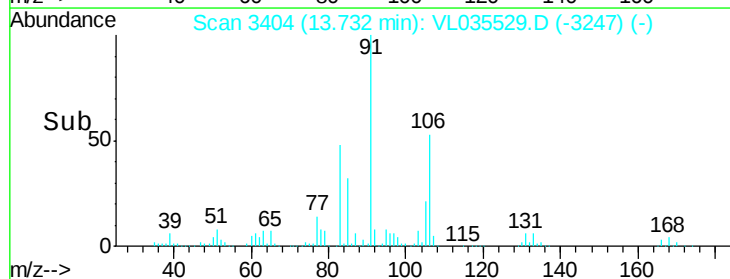
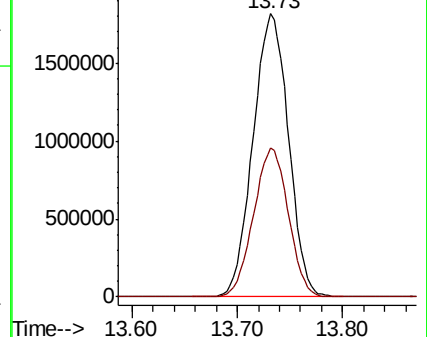
91 100

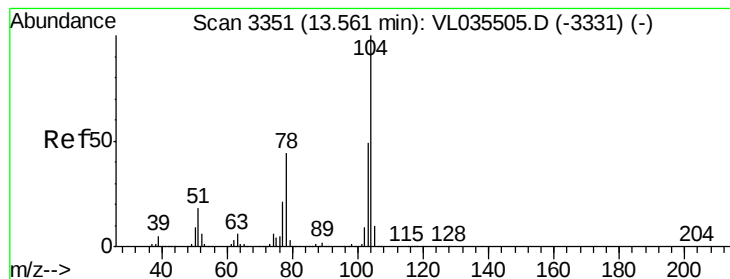
106 51.7 25.8 77.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 9.090 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

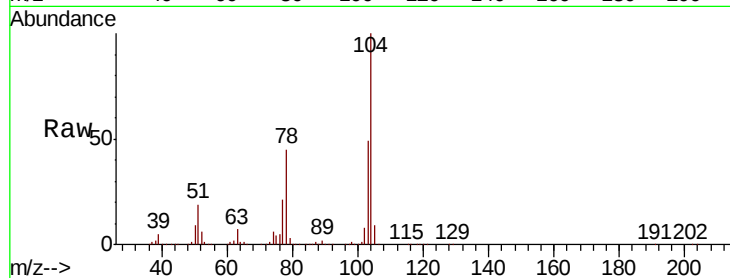
Tot Ion:104 Resp: 3494053

Ion Ratio Lower Upper

104 100

78 44.0 34.8 52.2

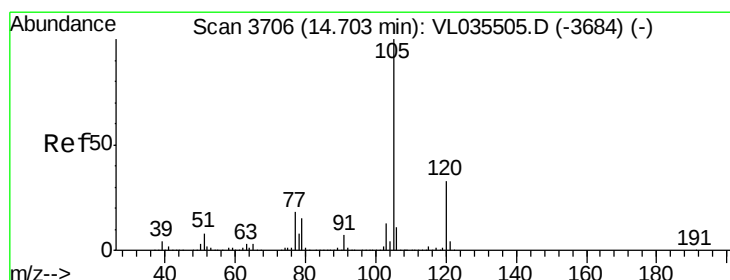
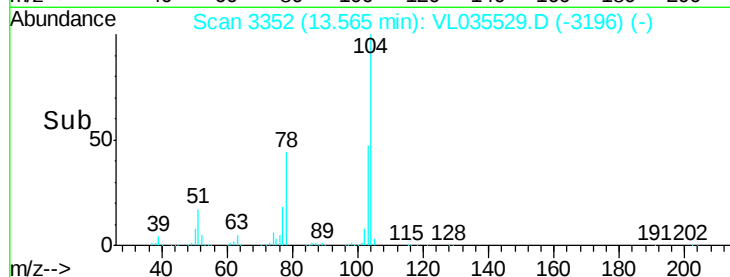
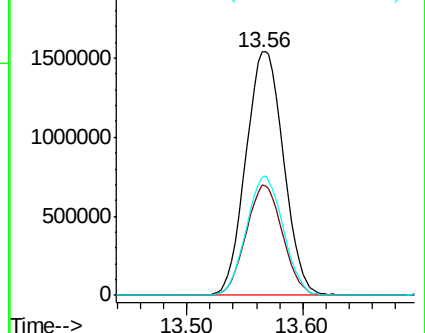
103 47.8 38.2 57.4



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: 8.126 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.01 min

Lab File: VL035529.D

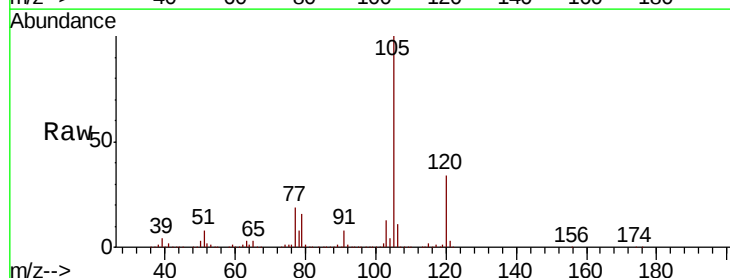
Acq: 3 Sep 2020 13:49

Tgt Ion:105 Resp: 6560218

Ion Ratio Lower Upper

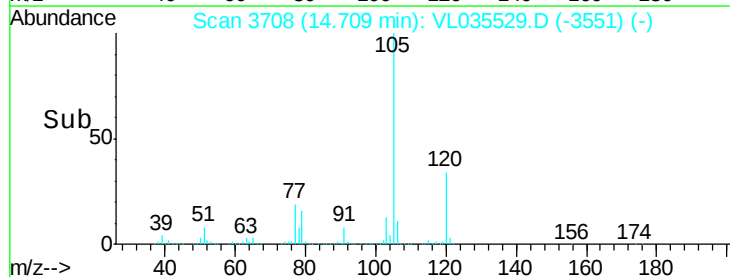
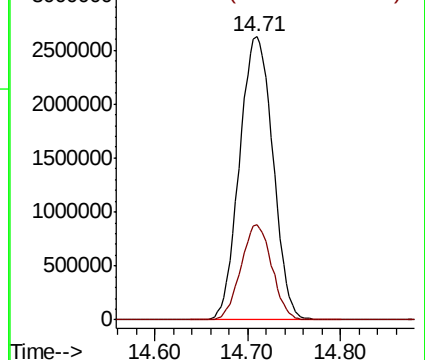
105 100

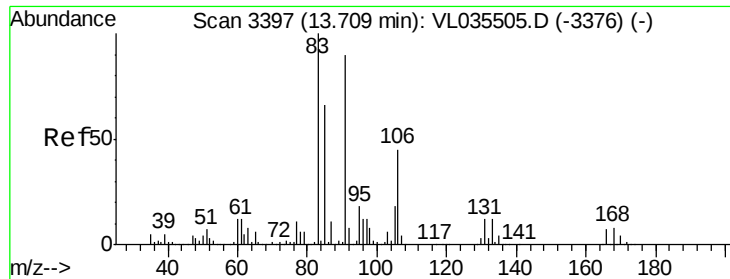
120 31.1 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

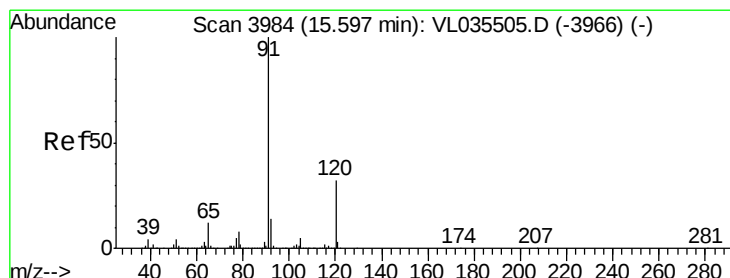
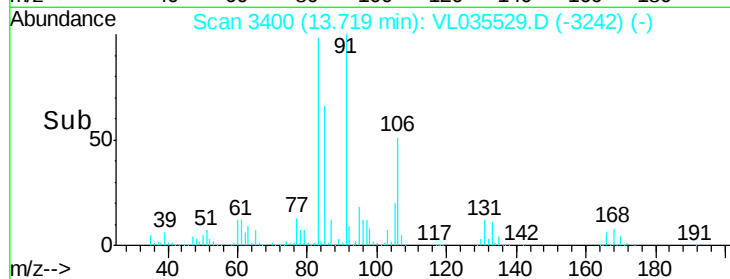
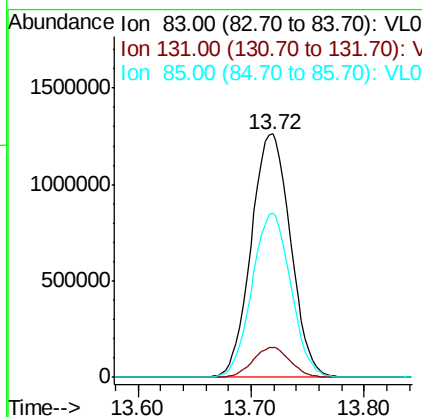
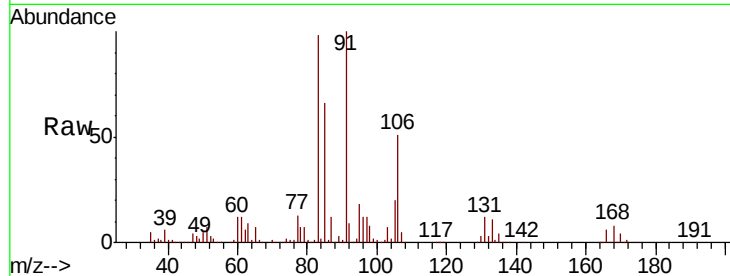




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.819 ppbv  
 RT: 13.72 min Scan# 3400  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

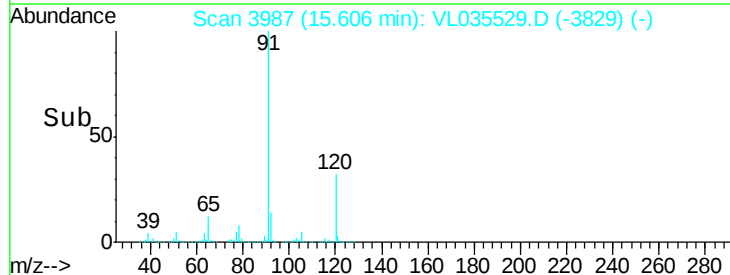
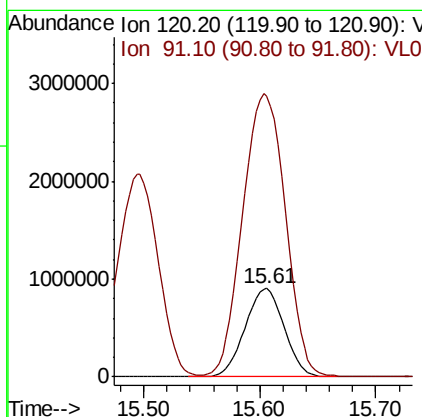
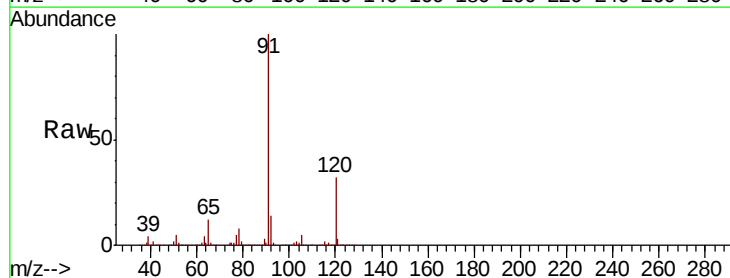
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

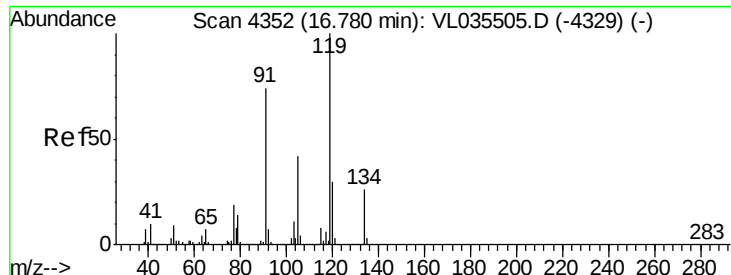
Tot Ion: 83 Resp: 3046738  
 Ion Ratio Lower Upper  
 83 100  
 131 11.8 6.0 18.0  
 85 66.7 33.4 100.2



#64  
 n-propylbenzene  
 Concen: 8.580 ppbv  
 RT: 15.61 min Scan# 3987  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Tgt Ion:120 Resp: 2113938  
 Ion Ratio Lower Upper  
 120 100  
 91 352.1 279.4 419.0





#65

tert-Butylbenzene

Concen: 8.354 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

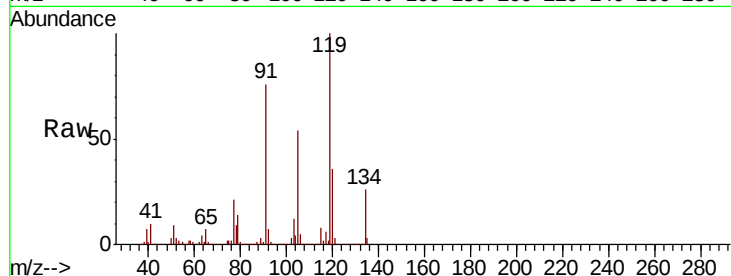
Tot Ion:119 Resp: 6269455

Ion Ratio Lower Upper

119 100

91 73.8 58.6 87.8

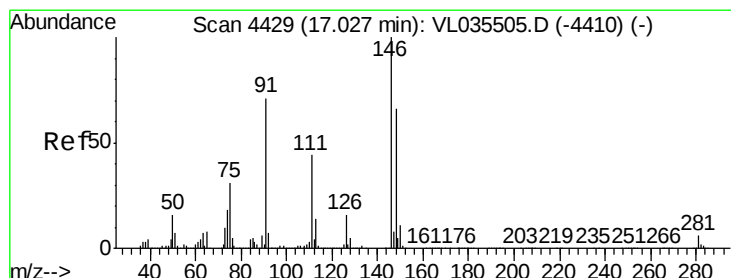
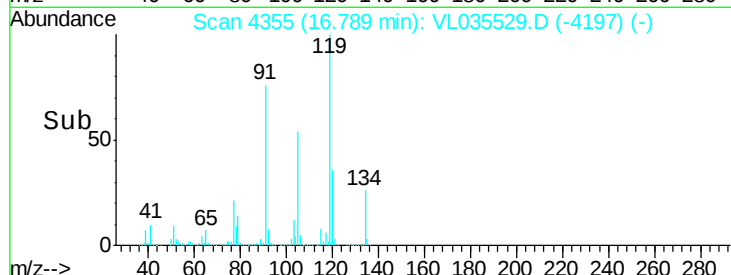
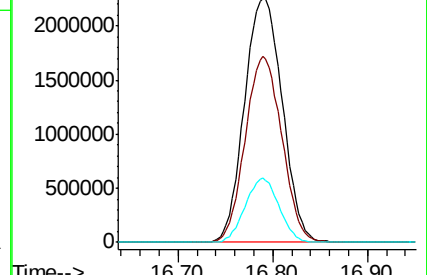
134 23.6 18.9 28.3



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



#66

Benzyl Chloride

Concen: 11.492 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

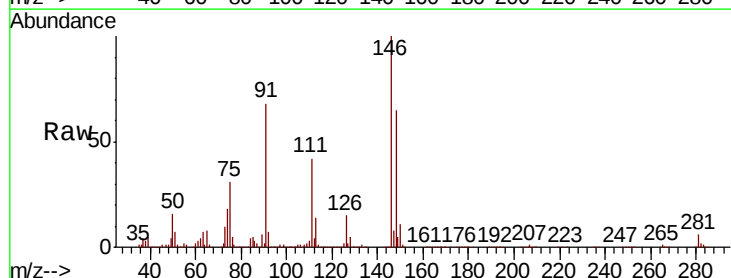
Tgt Ion: 91 Resp: 2143361

Ion Ratio Lower Upper

91 100

126 21.0 17.2 25.8

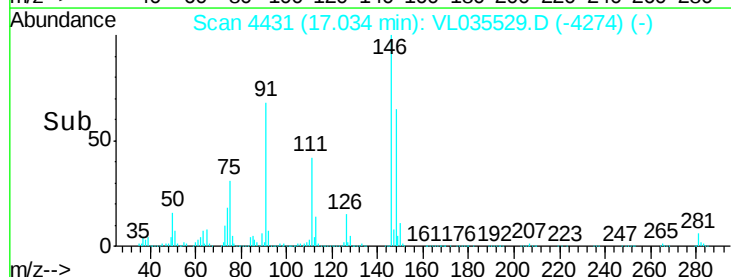
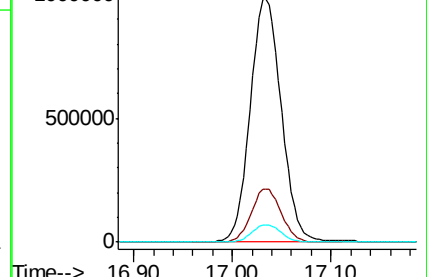
128 6.7 5.5 8.3

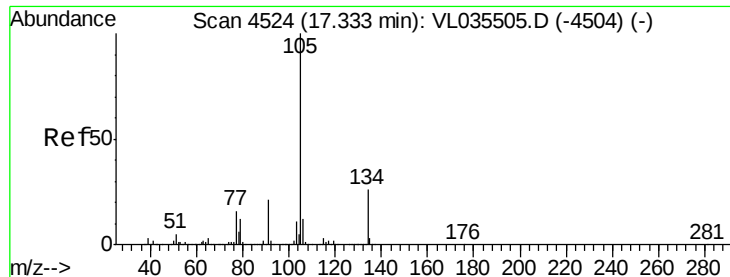


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

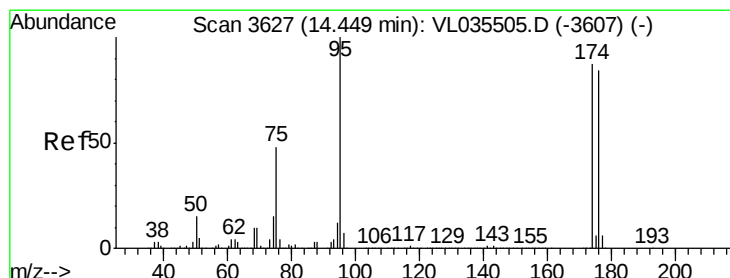
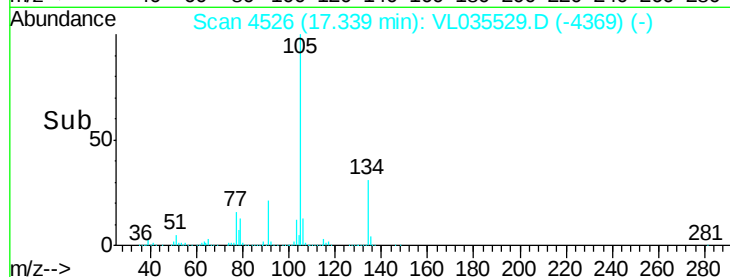
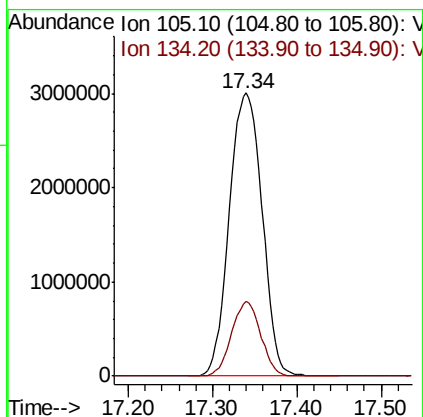
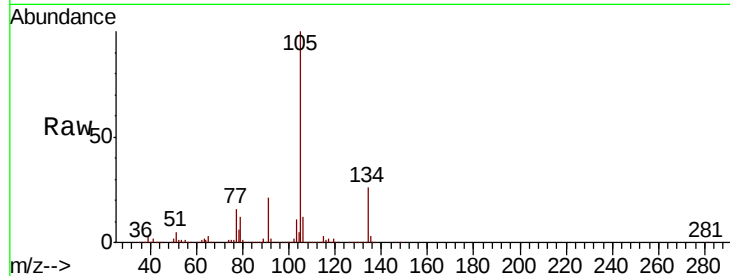




#67  
 sec-Butylbenzene  
 Concen: 8.133 ppbv  
 RT: 17.34 min Scan# 4526  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

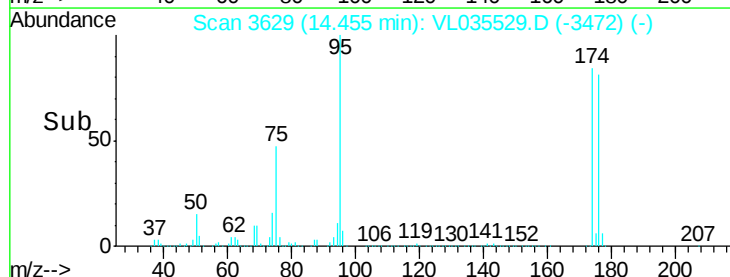
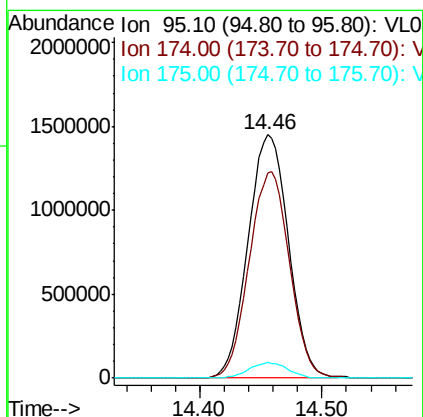
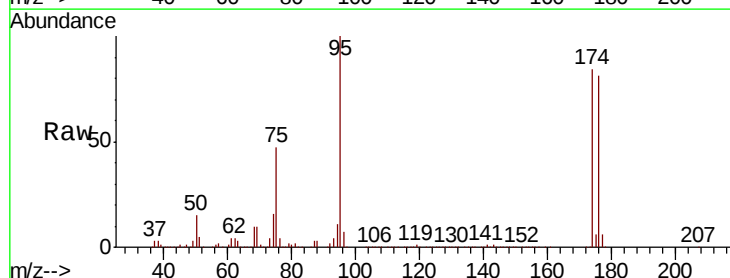
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

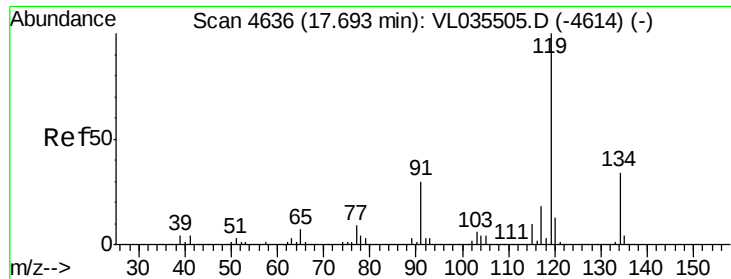
Tot Ion:105 Resp: 8131697  
 Ion Ratio Lower Upper  
 105 100  
 134 23.6 19.1 28.7



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.078 ppbv  
 RT: 14.46 min Scan# 3629  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Tgt Ion: 95 Resp: 3322128  
 Ion Ratio Lower Upper  
 95 100  
 174 85.3 69.6 104.4  
 175 6.2 5.1 7.7

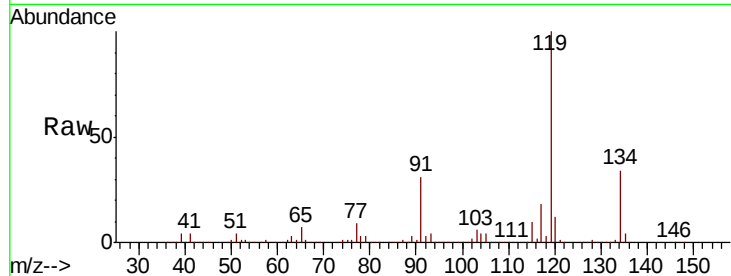




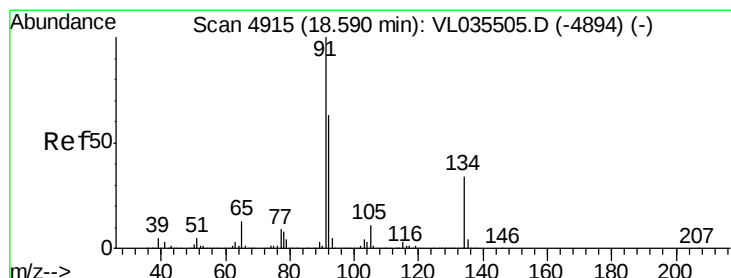
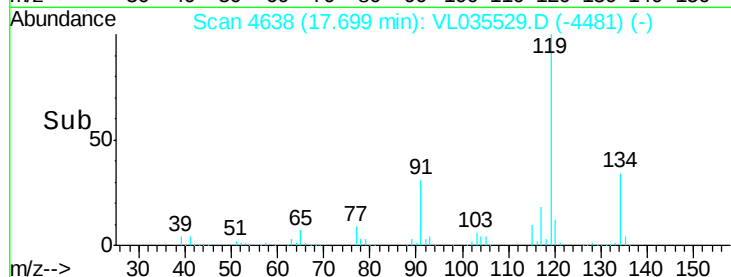
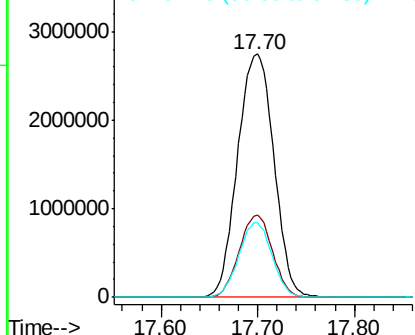
#69  
p-Isopropyltoluene  
Concen: 8.163 ppbv  
RT: 17.70 min Scan# 4638  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0903ABS01

Tot Ion:119 Resp: 7159654  
Ion Ratio Lower Upper  
119 100  
134 31.1 25.0 37.4  
91 28.2 22.3 33.5

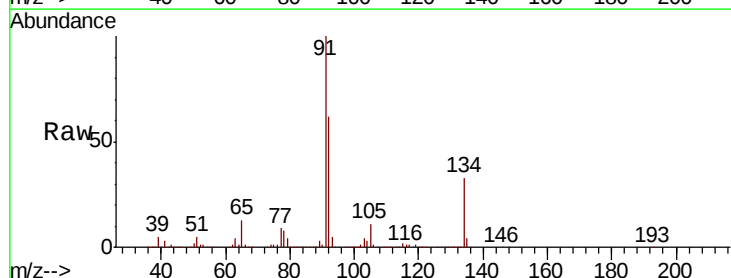


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

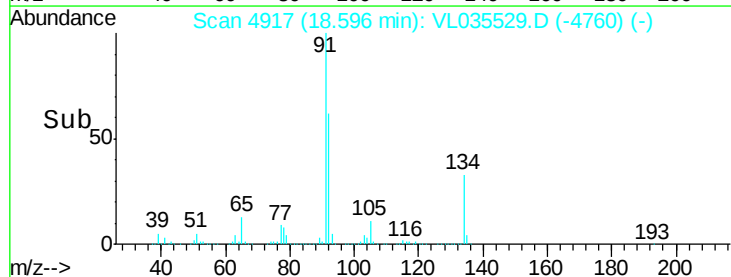
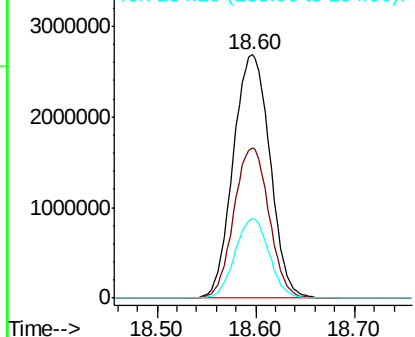


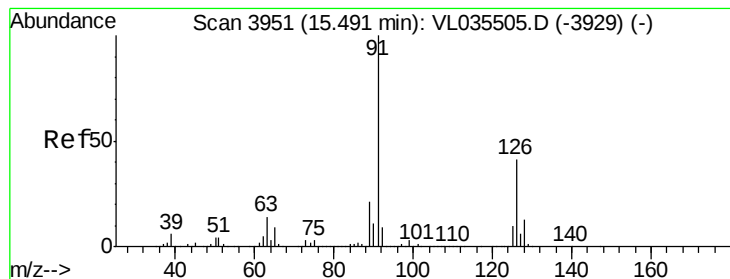
#70  
n-Butylbenzene  
Concen: 8.223 ppbv  
RT: 18.60 min Scan# 4917  
Delta R.T. 0.01 min  
Lab File: VL035529.D  
Acq: 3 Sep 2020 13:49

Tgt Ion: 91 Resp: 6946320  
Ion Ratio Lower Upper  
91 100  
92 59.1 47.3 70.9  
134 30.3 24.6 37.0



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): V





#71

2-Chlorotoluene

Concen: 8.544 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

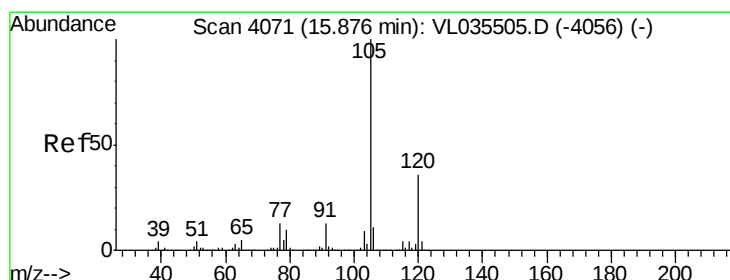
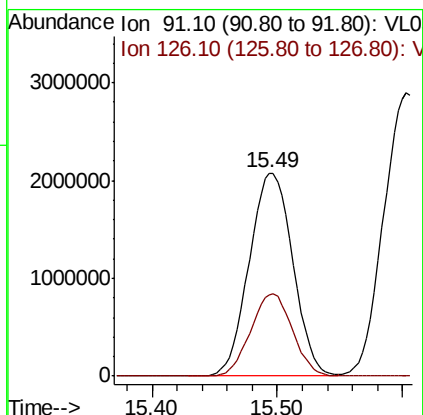
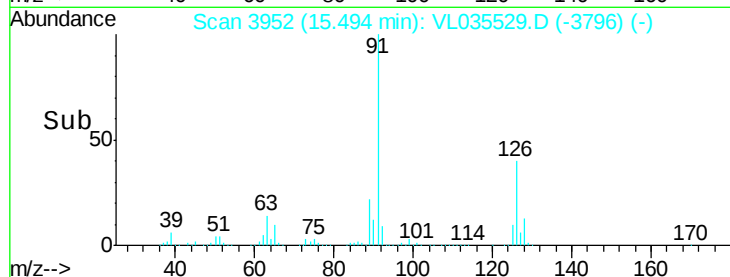
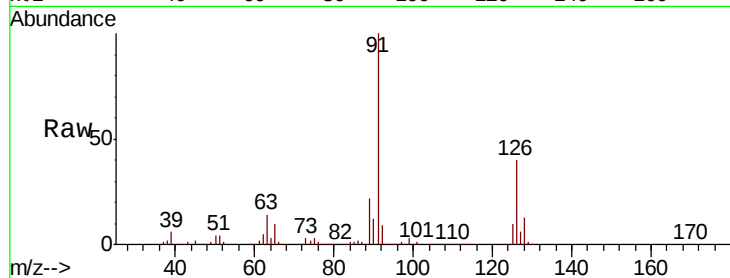
VL0903ABS01

Tot Ion: 91 Resp: 5023073

Ion Ratio Lower Upper

91 100

126 38.8 15.6 62.6



#72

4-Ethyltoluene

Concen: 8.536 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion: 105 Resp: 5454155

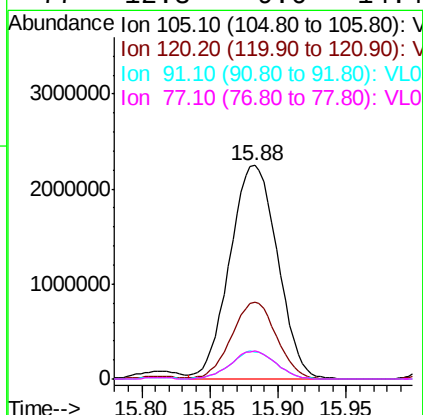
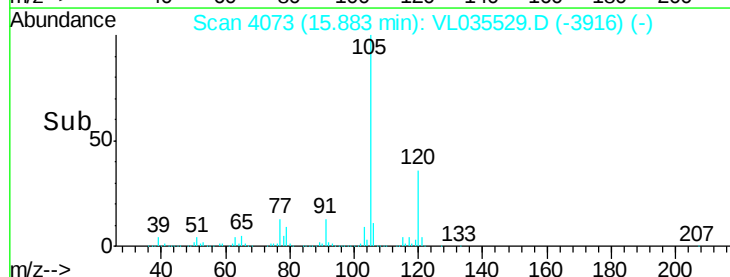
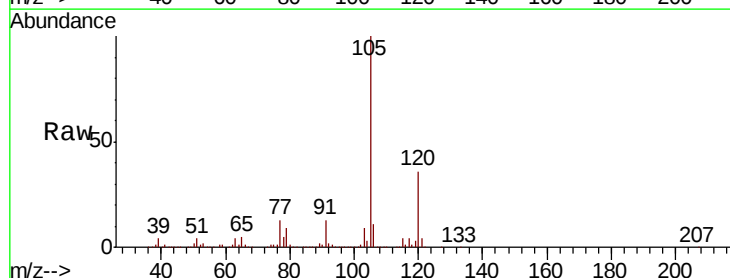
Ion Ratio Lower Upper

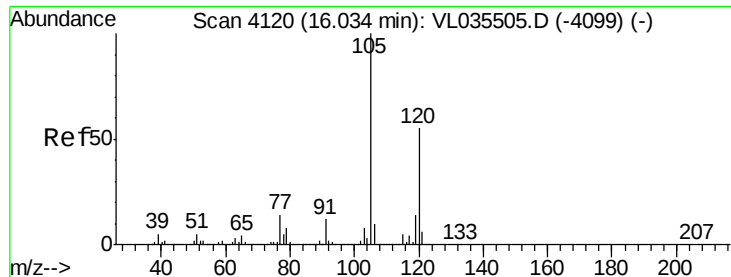
105 100

120 34.1 27.4 41.2

91 12.3 9.7 14.5

77 12.3 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 8.604 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

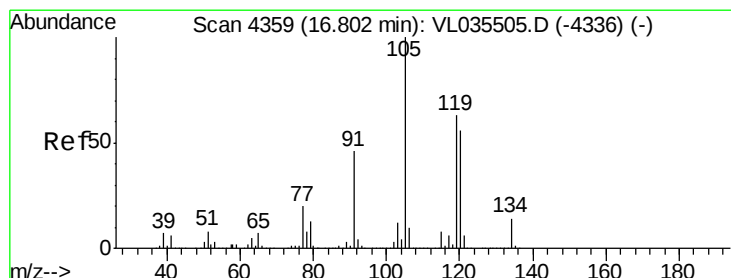
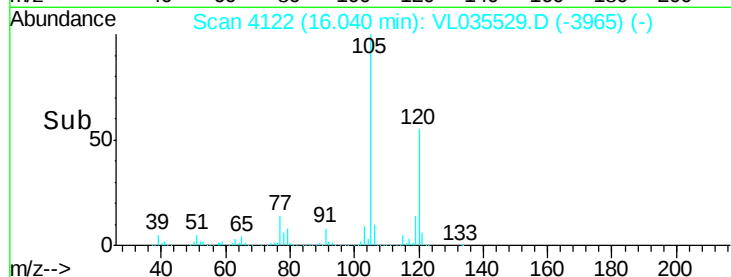
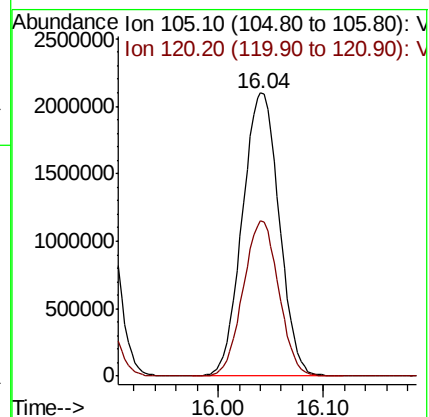
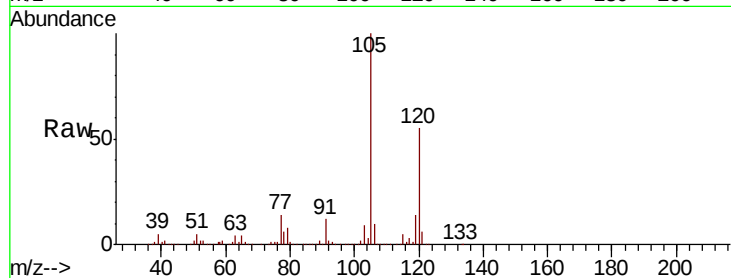
VL0903ABS01

Tot Ion:105 Resp: 5084499

Ion Ratio Lower Upper

105 100

120 54.9 44.2 66.2



#74

1,2,4-Trimethylbenzene

Concen: 8.145 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion:105 Resp: 5285792

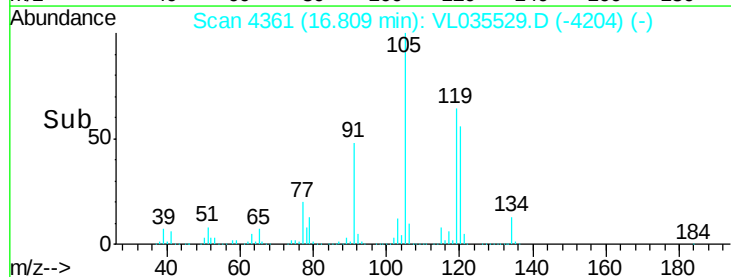
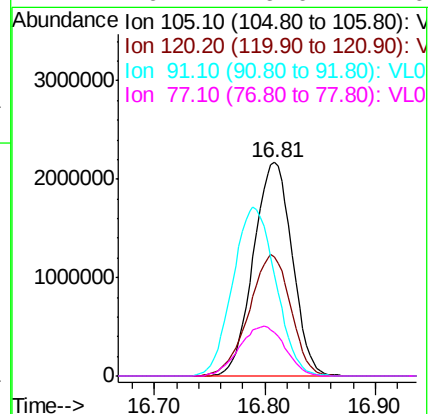
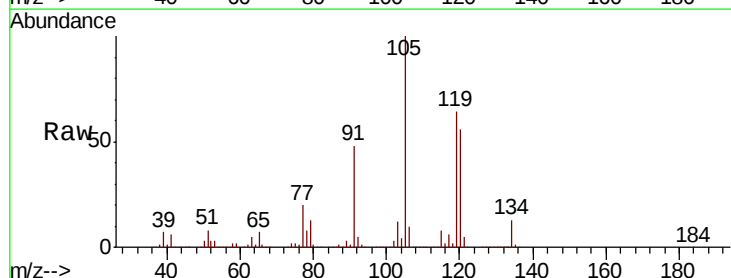
Ion Ratio Lower Upper

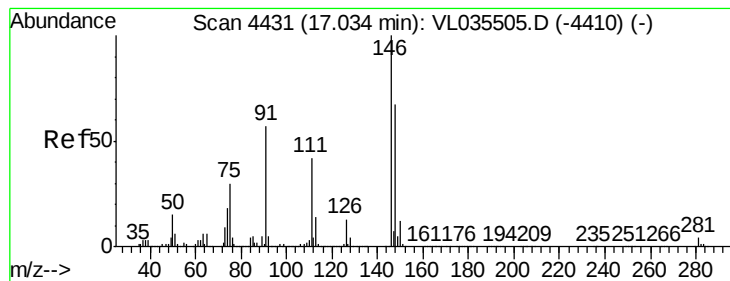
105 100

120 55.6 44.4 66.6

91 47.3 37.1 55.7

77 20.1 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 8.009 ppbv

RT: 17.04 min Scan# 4434

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0903ABS01

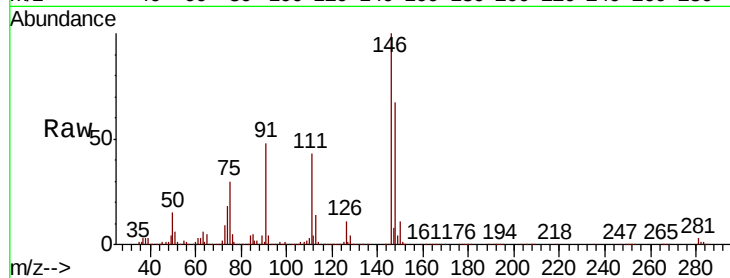
Tot Ion:146 Resp: 3850038

Ion Ratio Lower Upper

146 100

111 41.4 20.7 62.1

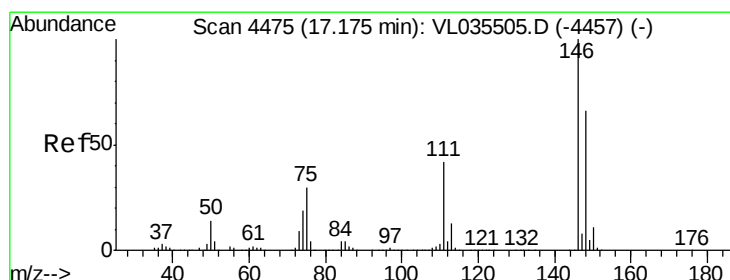
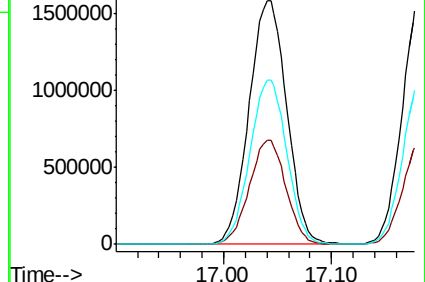
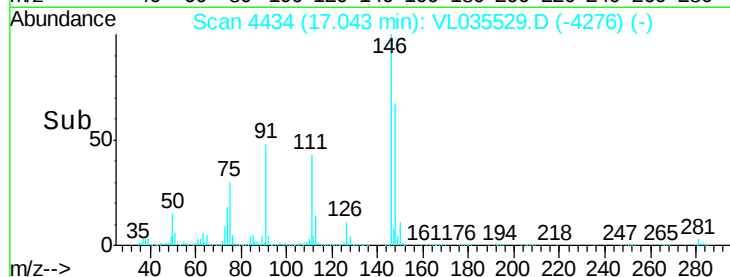
148 66.1 33.0 98.9



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



#76

1,4-Dichlorobenzene

Concen: 8.156 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

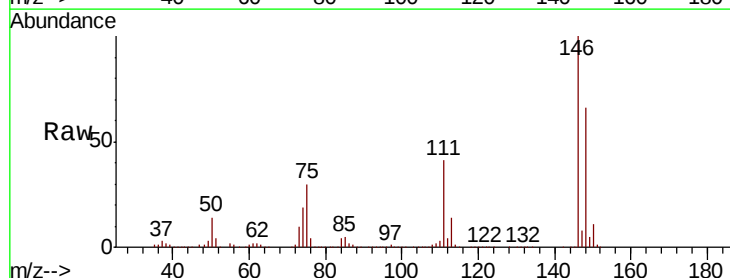
Tgt Ion:146 Resp: 3866706

Ion Ratio Lower Upper

146 100

111 40.7 20.0 60.0

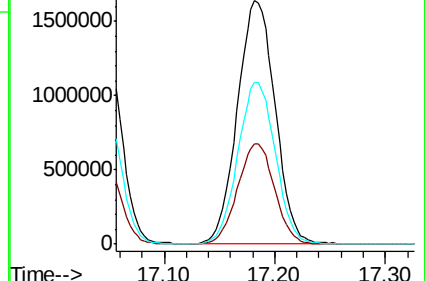
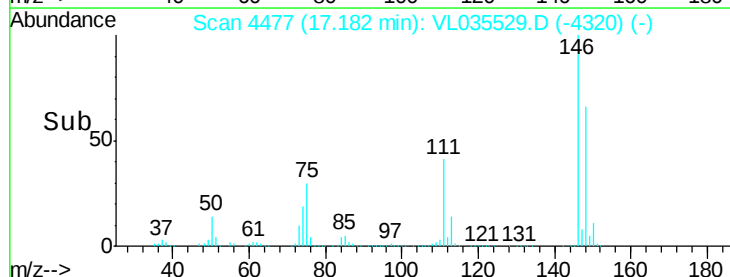
148 66.5 33.2 99.6

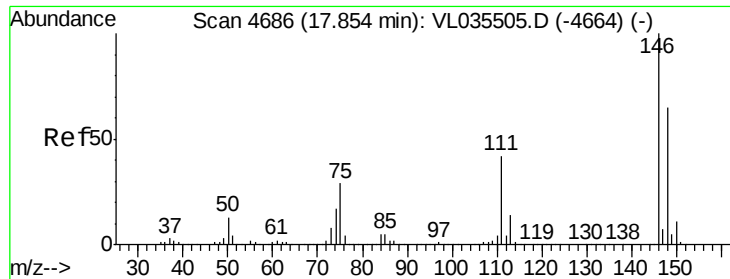


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

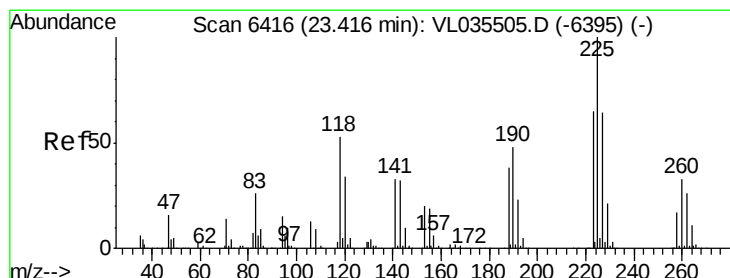
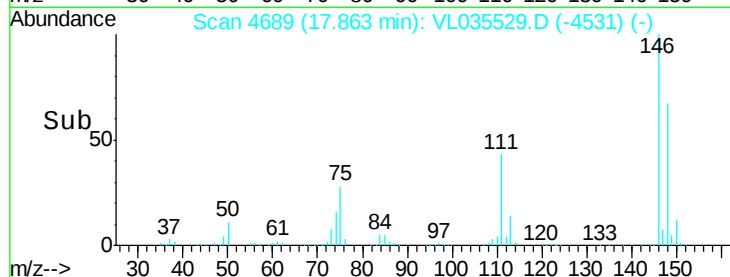
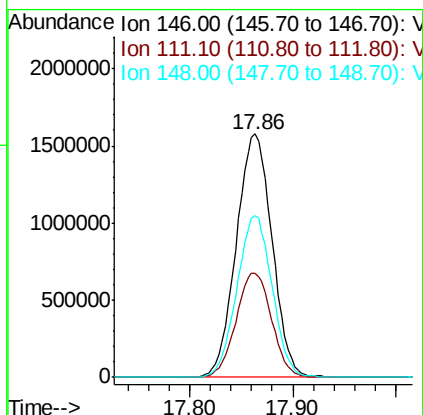
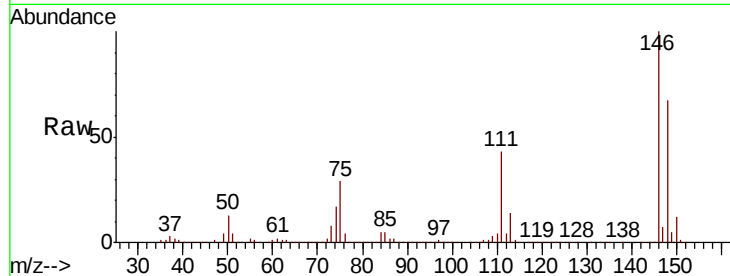




#77  
 1,2-Dichlorobenzene  
 Concen: 8.162 ppbv  
 RT: 17.86 min Scan# 4689  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

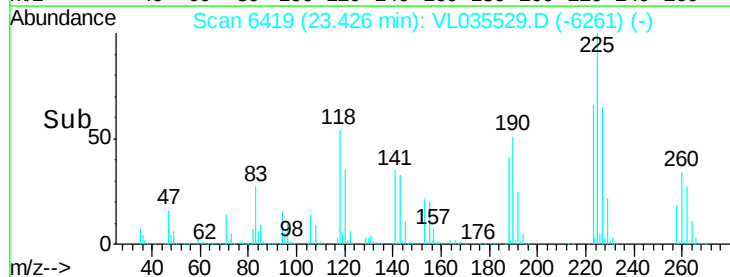
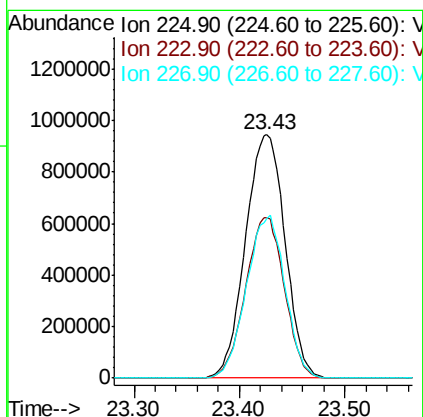
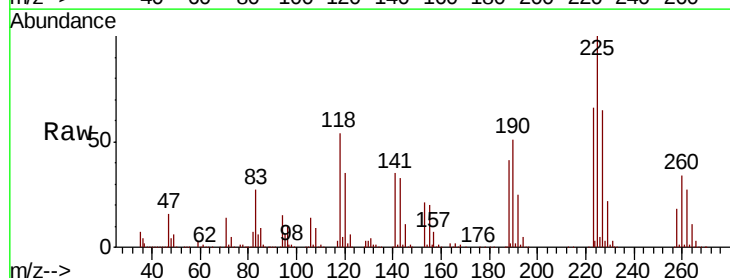
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

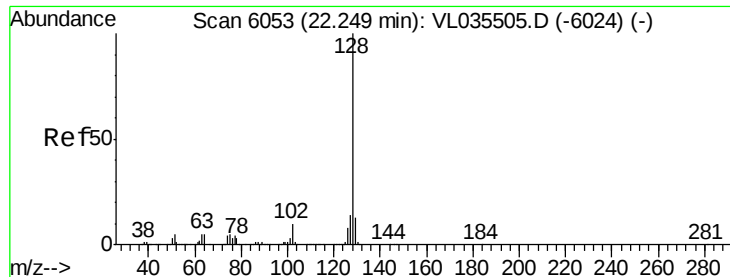
Tot Ion:146 Resp: 3801284  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 21.1 63.3  
 148 65.7 32.9 98.7



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.296 ppbv  
 RT: 23.43 min Scan# 6419  
 Delta R.T. 0.01 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Tgt Ion:225 Resp: 2466869  
 Ion Ratio Lower Upper  
 225 100  
 223 64.7 51.7 77.5  
 227 65.0 51.5 77.3





#79

Naphthalene

Concen: 8.943 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Instrument :

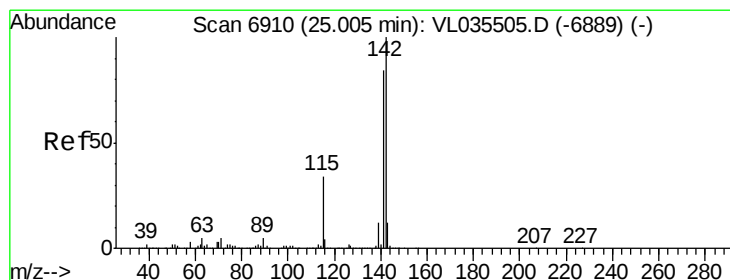
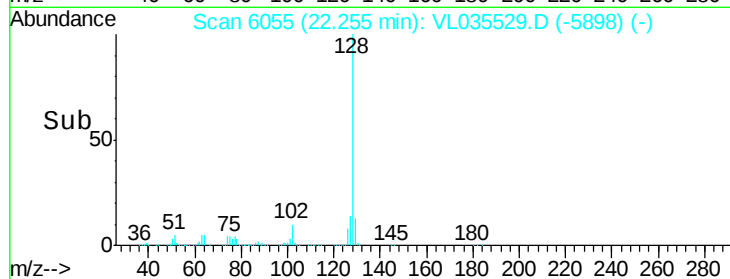
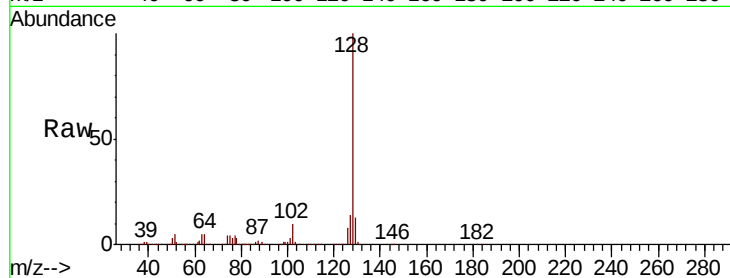
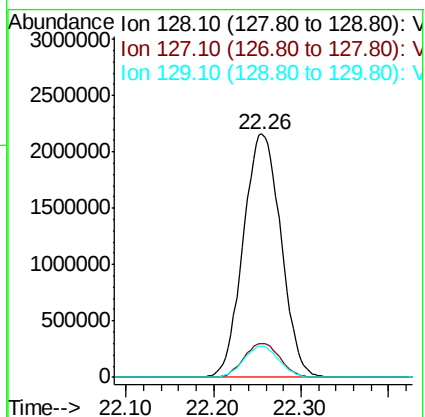
MSVOA\_L

ClientSampleId :

VL0903ABS01

Tot Ion:128 Resp: 6439891

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.7  | 11.4  | 17.2  |
| 129 | 12.7  | 10.5  | 15.7  |



#80

Naphthalene, 2-methyl-

Concen: 9.929 ppbv

RT: 25.01 min Scan# 6912

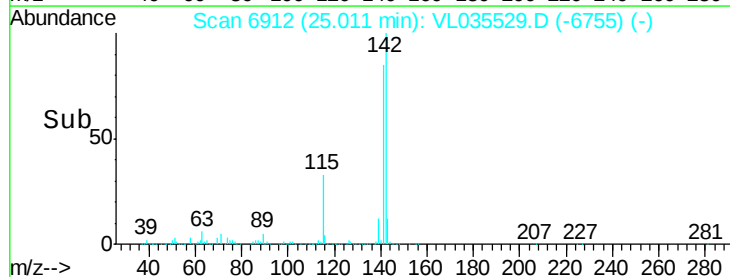
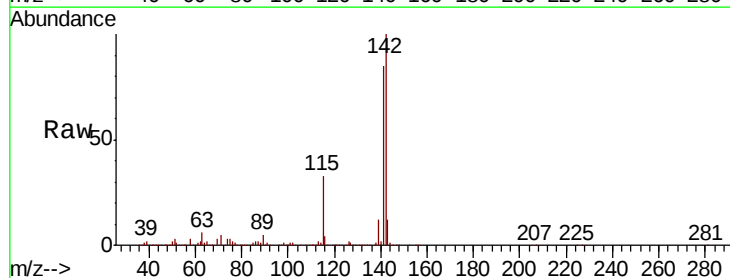
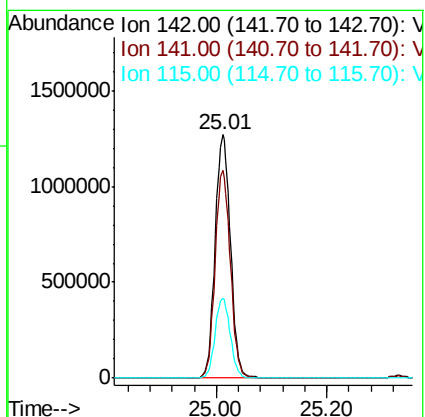
Delta R.T. 0.01 min

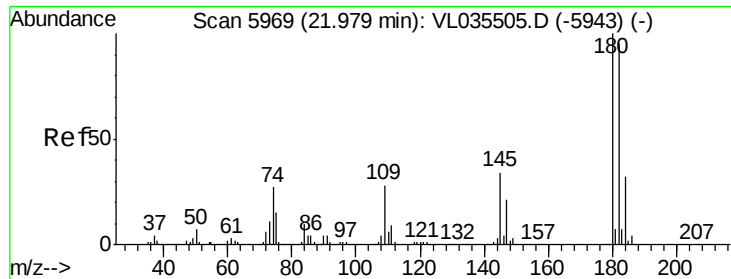
Lab File: VL035529.D

Acq: 3 Sep 2020 13:49

Tgt Ion:142 Resp: 2440235

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 84.8  | 67.6  | 101.4 |
| 115 | 32.6  | 25.8  | 38.8  |

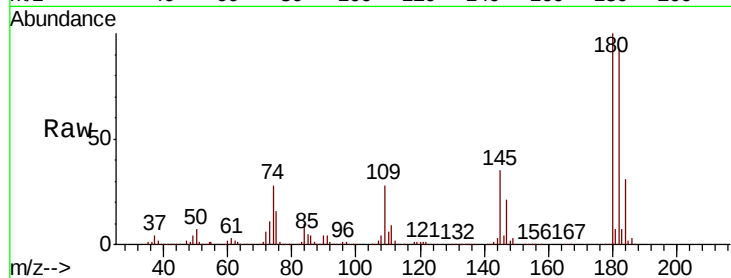




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.621 ppbv  
 RT: 21.98 min Scan# 5970  
 Delta R.T. 0.00 min  
 Lab File: VL035529.D  
 Acq: 3 Sep 2020 13:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0903ABS01

Tot Ion:180 Resp: 3717513  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.3 114.5  
 184 31.5 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

