

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\  
 Data File : VL035535.D  
 Acq On : 3 Sep 2020 17:54  
 Operator : SY/AP  
 Sample : L3898-02  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2

Quant Time: Sep 04 06:46:29 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   | 5.70  | 49   | 1023680  | 10.00 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 4346870  | 10.00 | ppbv  | 0.01     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 4371023  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 3237908  | 10.43    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.30% |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.06  | 85   | 67439    | 0.380   | ppbv   | 93     |
| 3) Chlorodifluoromethane       | 3.00  | 51   | 129173   | 1.141   | ppbv # | 79     |
| 4) Chloromethane               | 3.15  | 50   | 31519    | 0.520   | ppbv   | 99     |
| 9) Propene                     | 3.03  | 41   | 302760   | 6.937   | ppbv # | 64     |
| 10) Heptane                    | 8.15  | 43   | 51314    | 0.438   | ppbv   | 97     |
| 11) Trichlorofluoromethane     | 3.96  | 101  | 364631   | 1.409   | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50  | 101  | 15101    | 0.077   | ppbv   | 99     |
| 13) Ethanol                    | 3.63  | 45   | 1279365  | 118.220 | ppbv   | 97     |
| 15) Acetone                    | 3.86  | 43   | 9681853  | 85.754  | ppbv # | 69     |
| 16) 1,3-Butadiene              | 3.32  | 39   | 14488    | 0.345   | ppbv # | 25     |
| 17) tert-Butyl alcohol         | 4.33  | 59   | 297020   | 2.161   | ppbv # | 72     |
| 19) Isopropyl Alcohol          | 4.00  | 45   | 456936   | 6.784   | ppbv # | 93     |
| 20) Methylene Chloride         | 4.37  | 84   | 225904   | 2.686   | ppbv   | 96     |
| 21) Allyl Chloride             | 4.38  | 41   | 7013     | 0.133   | ppbv # | 51     |
| 23) Vinyl Acetate              | 5.09  | 43   | 109429   | 0.755   | ppbv # | 84     |
| 25) Ethyl Acetate              | 5.70  | 43   | 246459   | 1.236   | ppbv   | 96     |
| 26) Hexane                     | 5.71  | 57   | 165374   | 1.463   | ppbv   | 86     |
| 29) Chloroform                 | 5.78  | 83   | 21786    | 0.095   | ppbv   | 92     |
| 30) Cyclohexane                | 7.15  | 84   | 24927    | 0.206   | ppbv # | 91     |
| 34) 2-Butanone                 | 5.27  | 43   | 343467   | 2.662   | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.05  | 117  | 7656     | 0.035   | ppbv # | 81     |
| 36) Benzene                    | 6.92  | 78   | 124622   | 0.443   | ppbv # | 95     |
| 37) 1,2-Dichloroethane         | 6.33  | 62   | 12765    | 0.095   | ppbv # | 92     |
| 39) 1,2-Dichloropropane        | 7.20  | 63   | 794401   | 8.357   | ppbv # | 32     |
| 40) 1,4-Dioxane                | 7.89  | 88   | 2923     | 0.062   | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.08  | 42   | 4658     | 0.068   | ppbv # | 21     |
| 43) Methyl Methacrylate        | 8.05  | 69   | 4208     | 0.039   | ppbv # | 14     |
| 44) 2,2,4-Trimethylpentane     | 7.90  | 57   | 199198   | 0.538   | ppbv # | 78     |
| 50) 4-Methyl-2-Pentanone       | 8.78  | 43   | 13885    | 0.074   | ppbv # | 30     |
| 51) 2-Hexanone                 | 10.18 | 43   | 4792     | 0.031   | ppbv # | 1      |
| 52) Tetrachloroethene          | 11.26 | 164  | 22793    | 0.139   | ppbv   | 94     |
| 53) Toluene                    | 9.84  | 91   | 1134092  | 3.205   | ppbv   | 97     |
| 58) Ethyl Benzene              | 12.75 | 91   | 228997   | 0.508   | ppbv   | 89     |
| 59) m/p-Xylene                 | 13.00 | 91   | 775664   | 2.059   | ppbv   | 96     |
| 60) o-Xylene                   | 13.73 | 91   | 275436   | 0.726   | ppbv   | 96     |
| 61) Styrene                    | 13.57 | 104  | 15608    | 0.054   | ppbv # | 63     |
| 62) Isopropylbenzene           | 14.71 | 105  | 23362    | 0.038   | ppbv   | 94     |
| 64) n-propylbenzene            | 15.61 | 120  | 8043     | 0.043   | ppbv # | 1      |
| 65) tert-Butylbenzene          | 16.81 | 119  | 42276    | 0.075   | ppbv # | 77     |
| 69) p-Isopropyltoluene         | 17.70 | 119  | 183451   | 0.277   | ppbv   | 94     |
| 70) n-Butylbenzene             | 18.61 | 91   | 19387    | 0.030   | ppbv # | 1      |

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 ClientSampleId :  
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Quant Time: Sep 04 06:46:29 2020  
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 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

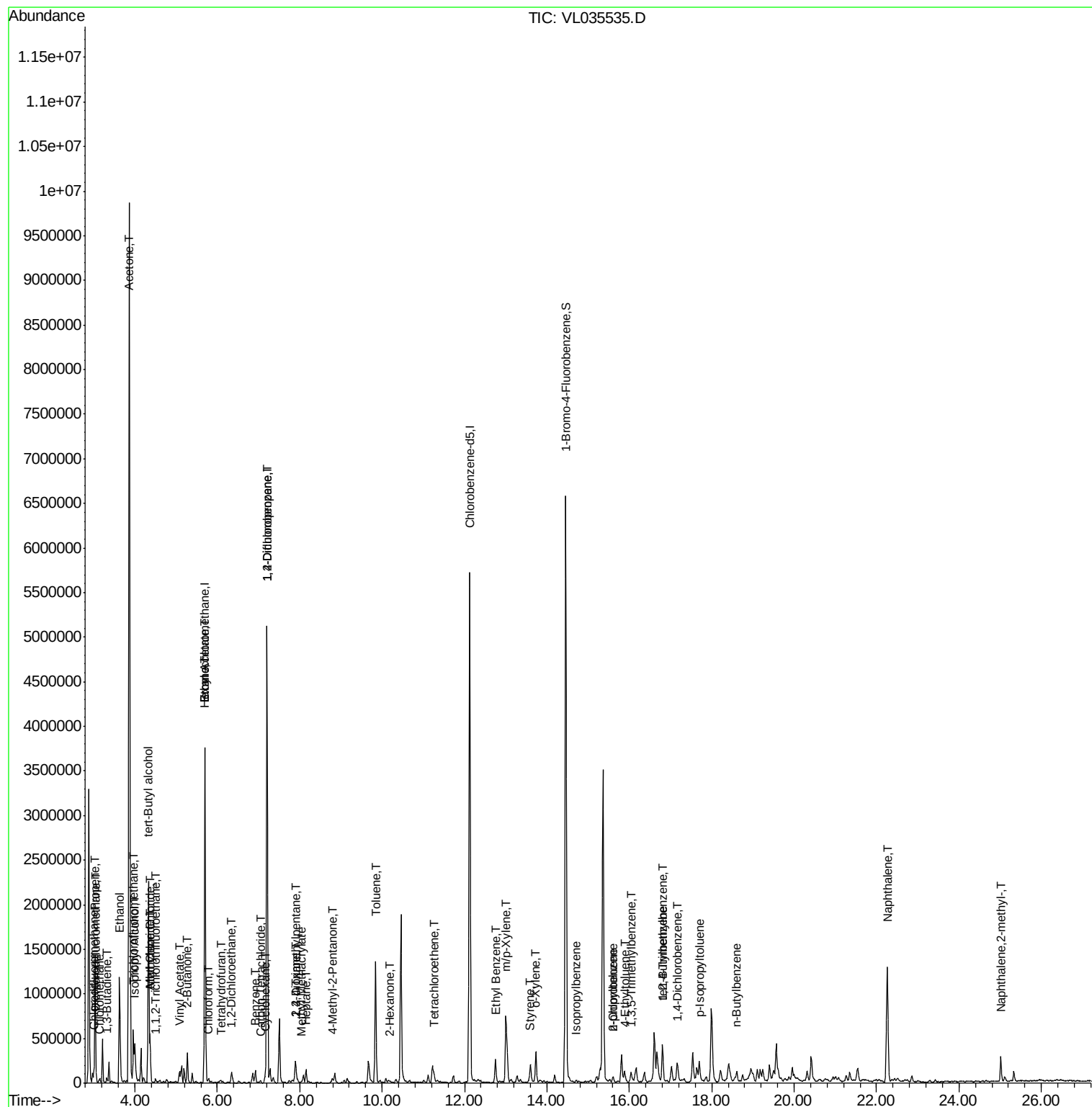
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 71) 2-Chlorotoluene        | 15.61 | 91   | 60529    | 0.136 | ppbv # | 39       |
| 72) 4-Ethyltoluene         | 15.89 | 105  | 79722    | 0.165 | ppbv # | 91       |
| 73) 1,3,5-Trimethylbenzene | 16.04 | 105  | 85785    | 0.192 | ppbv   | 87       |
| 74) 1,2,4-Trimethylbenzene | 16.80 | 105  | 318952   | 0.651 | ppbv # | 67       |
| 76) 1,4-Dichlorobenzene    | 17.18 | 146  | 51183    | 0.143 | ppbv   | 93       |
| 79) Naphthalene            | 22.26 | 128  | 1900995  | 3.498 | ppbv   | 96       |
| 80) Naphthalene,2-methyl-  | 25.02 | 142  | 164905   | 0.889 | ppbv   | 100      |

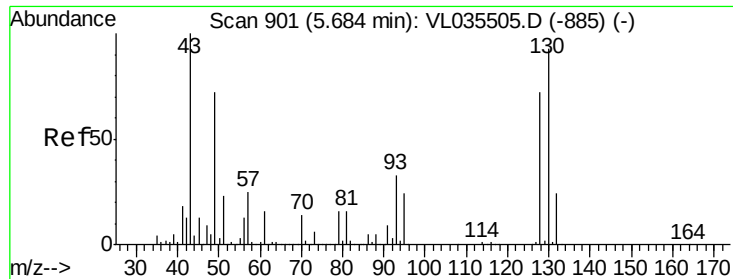
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampled :

IA-2

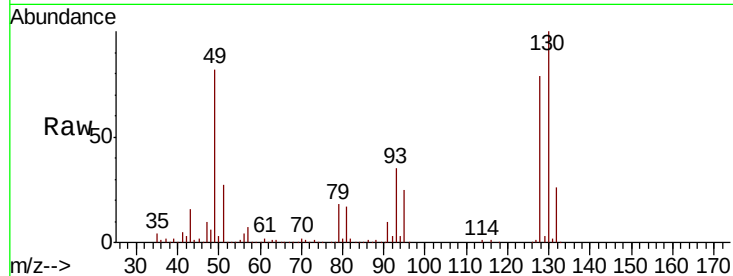
Tot Ion: 49 Resp: 1023680

Ion Ratio Lower Upper

49 100

128 95.5 50.0 150.1

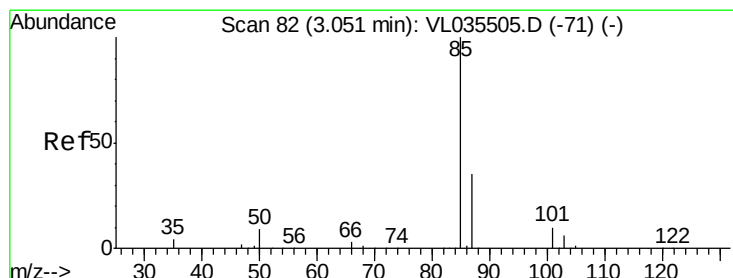
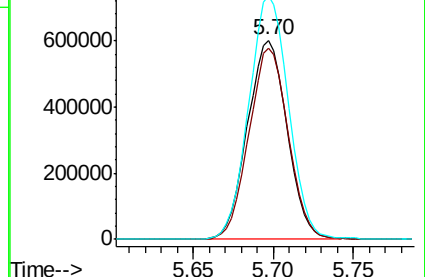
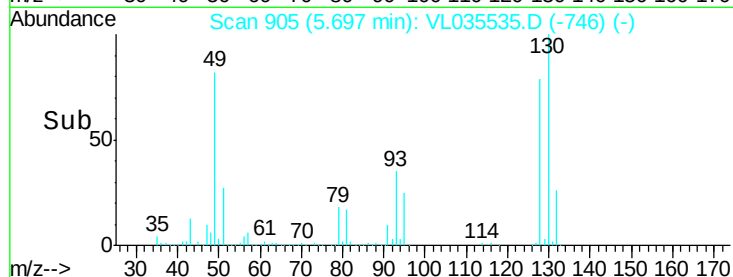
130 122.9 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.380 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035535.D

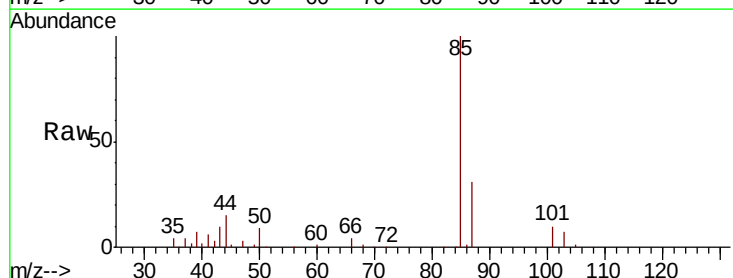
Acq: 3 Sep 2020 17:54

Tgt Ion: 85 Resp: 67439

Ion Ratio Lower Upper

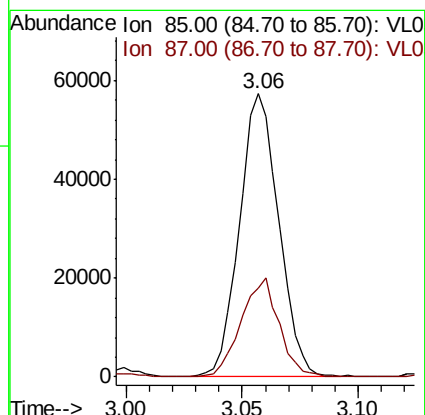
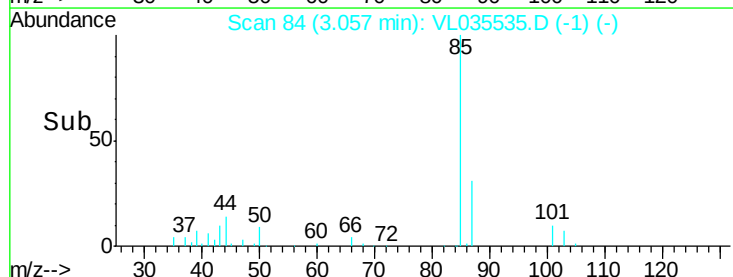
85 100

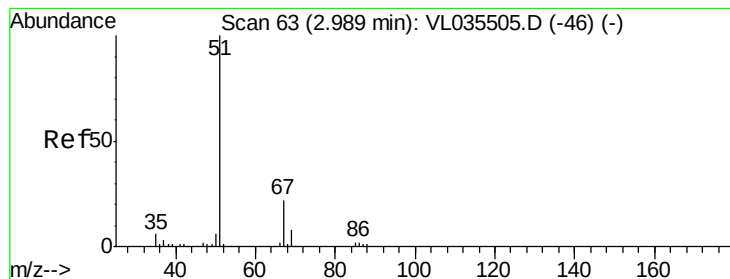
87 31.2 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.141 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

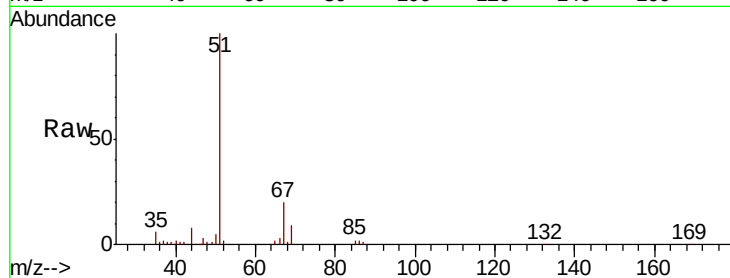
IA-2

Tot Ion: 51 Resp: 129173

Ion Ratio Lower Upper

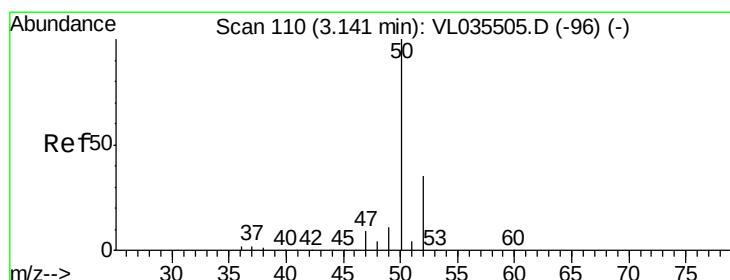
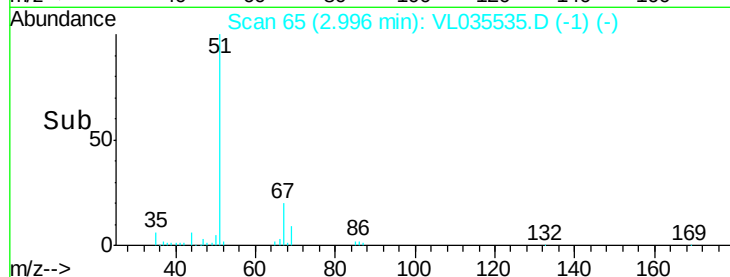
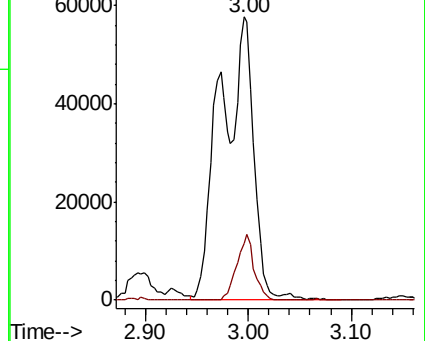
51 100

67 12.2 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: 0.520 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL035535.D

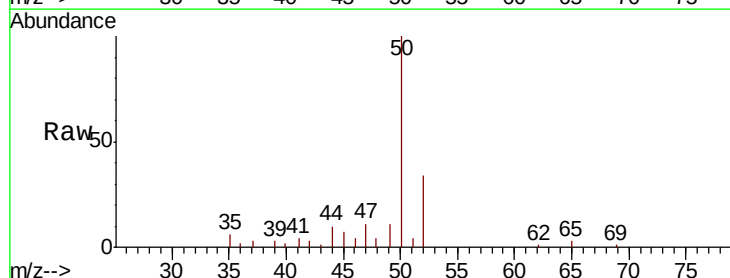
Acq: 3 Sep 2020 17:54

Tgt Ion: 50 Resp: 31519

Ion Ratio Lower Upper

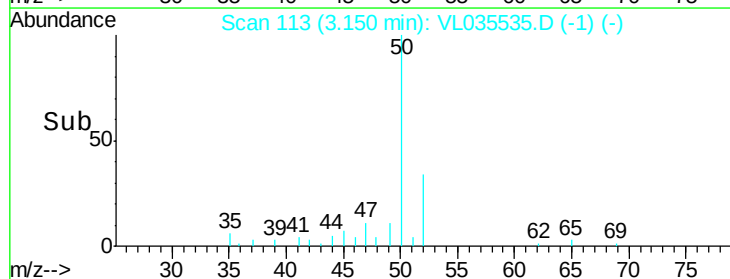
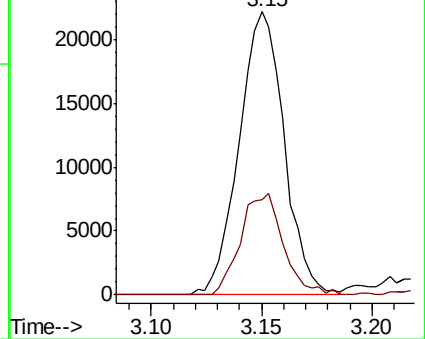
50 100

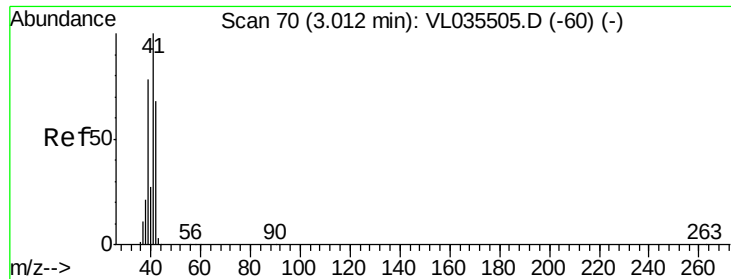
52 33.8 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 6.937 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

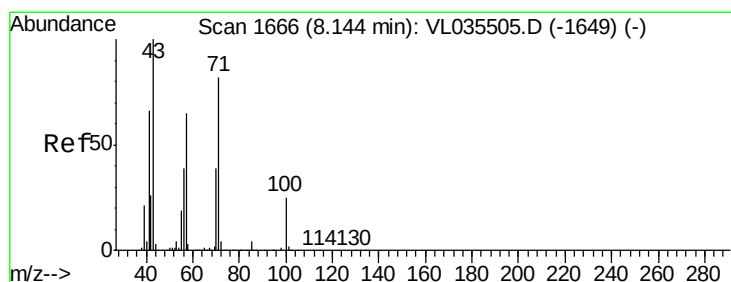
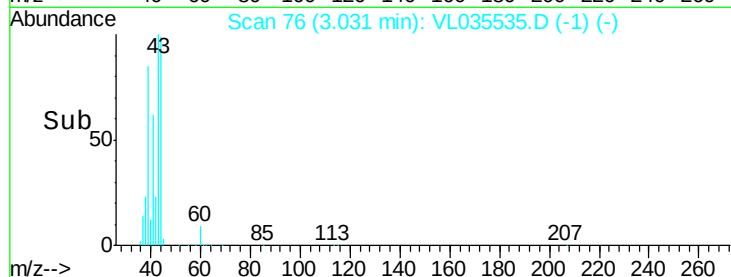
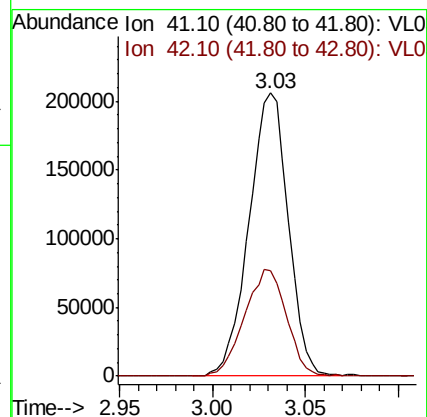
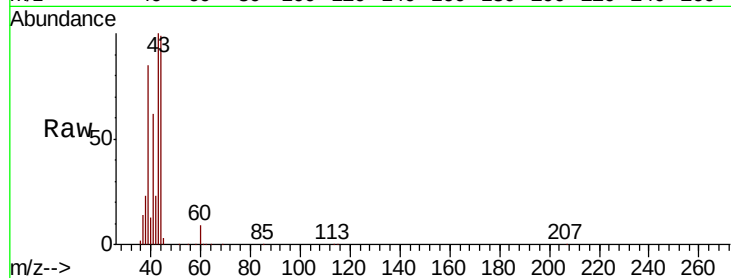
IA-2

Tot Ion: 41 Resp: 302760

Ion Ratio Lower Upper

41 100

42 40.4 56.3 84.5#



#10

Heptane

Concen: 0.438 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VL035535.D

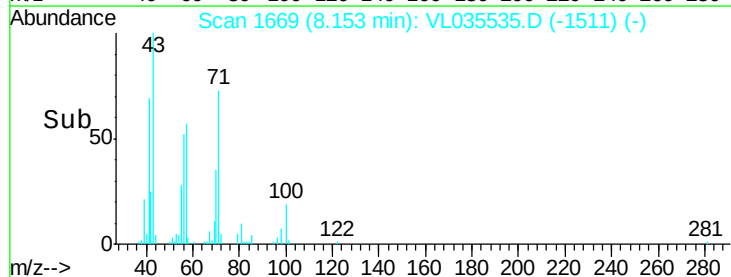
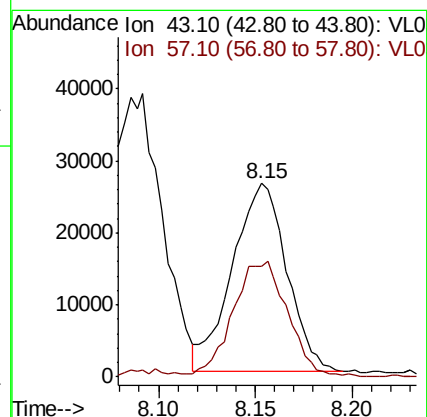
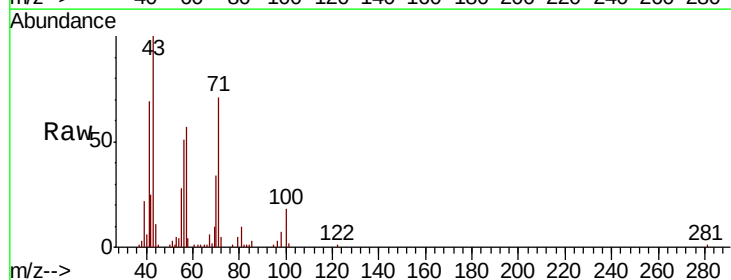
Acq: 3 Sep 2020 17:54

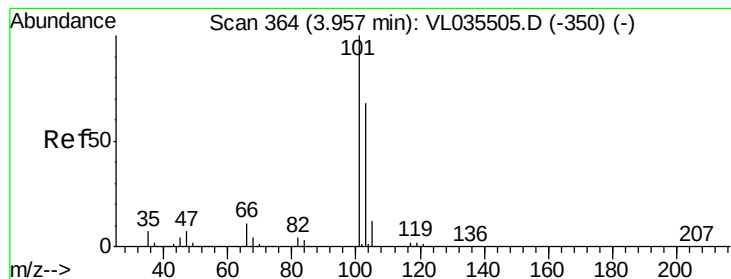
Tgt Ion: 43 Resp: 51314

Ion Ratio Lower Upper

43 100

57 62.2 51.4 77.0





#11

Trichlorofluoromethane

Concen: 1.409 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

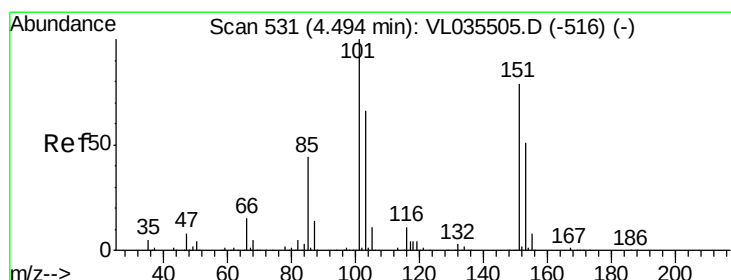
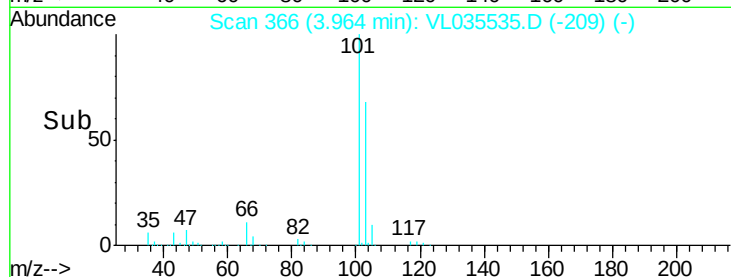
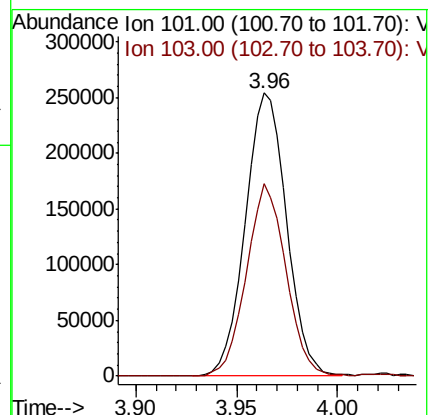
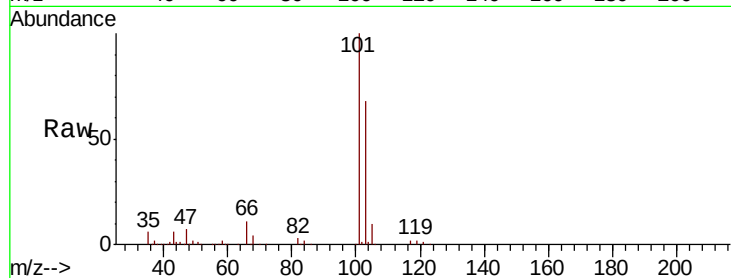
IA-2

Tot Ion:101 Resp: 364631

Ion Ratio Lower Upper

101 100

103 67.7 54.5 81.7



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv

RT: 4.50 min Scan# 534

Delta R.T. 0.01 min

Lab File: VL035535.D

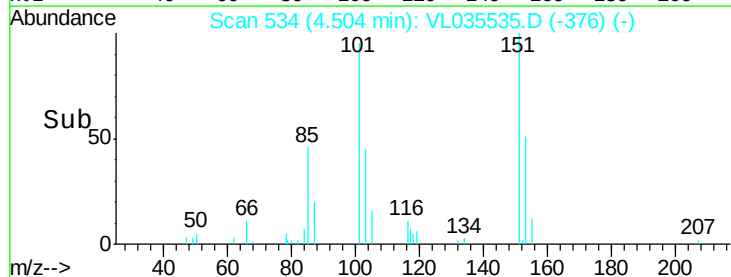
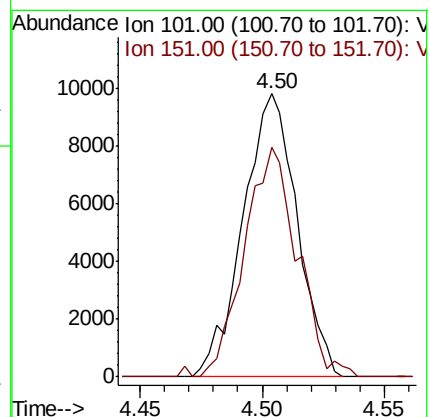
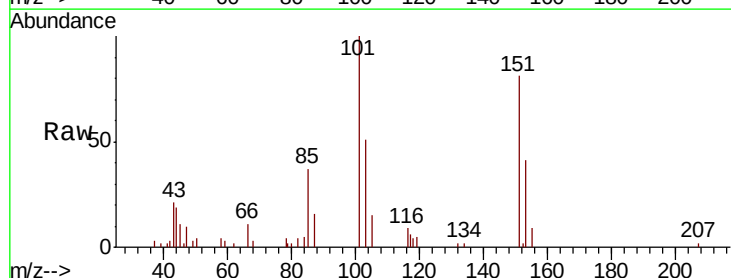
Acq: 3 Sep 2020 17:54

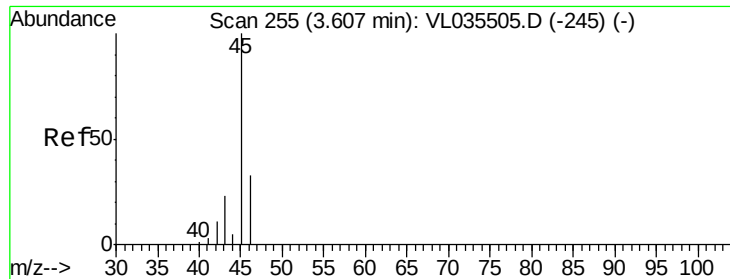
Tgt Ion:101 Resp: 15101

Ion Ratio Lower Upper

101 100

151 79.9 63.5 95.3





#13

Ethanol

Concen: 118.220 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

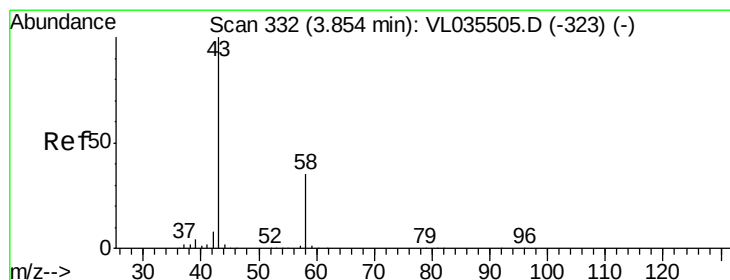
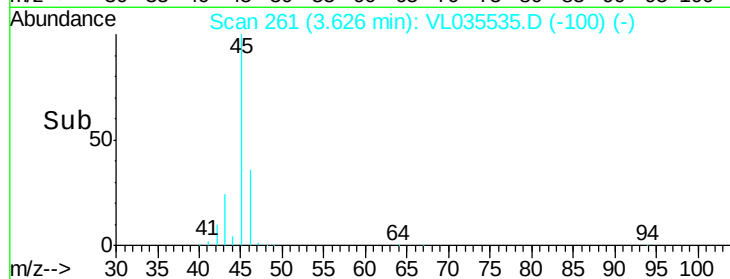
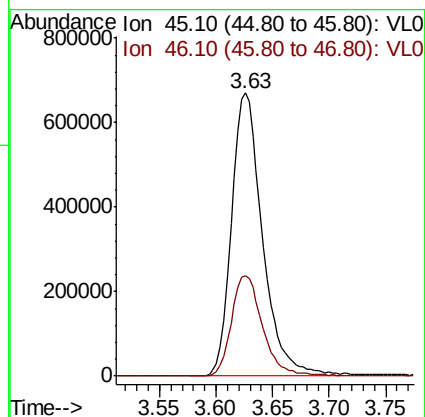
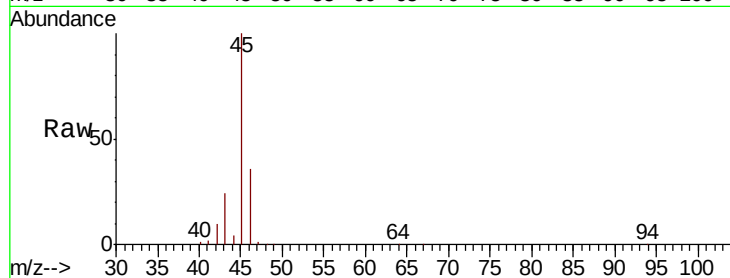
IA-2

Tot Ion: 45 Resp: 1279365

Ion Ratio Lower Upper

45 100

46 36.0 15.2 60.6



#15

Acetone

Concen: 85.754 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035535.D

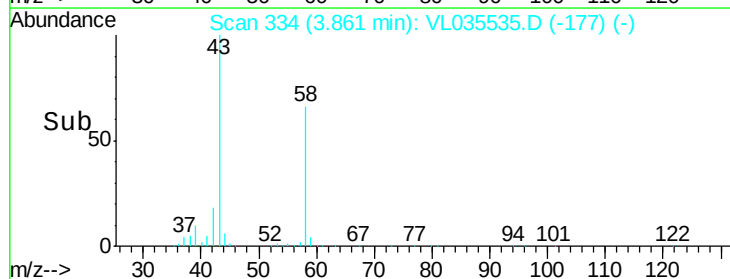
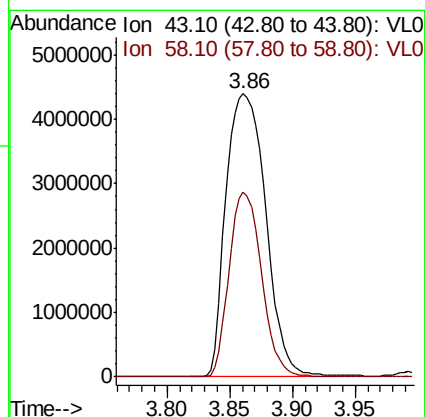
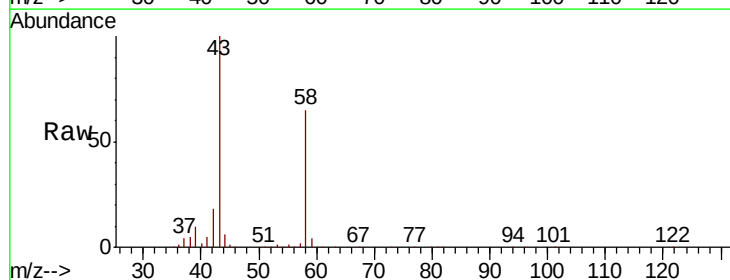
Acq: 3 Sep 2020 17:54

Tgt Ion: 43 Resp: 9681853

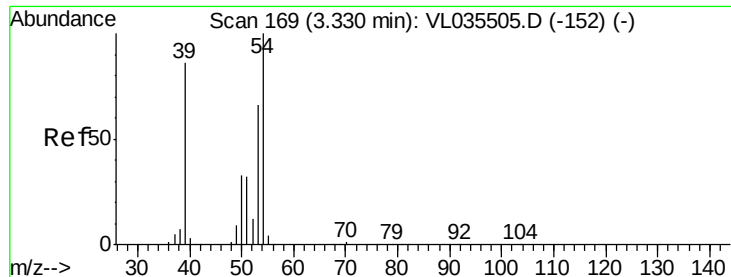
Ion Ratio Lower Upper

43 100

58 53.4 28.4 42.6#







#16

1,3-Butadiene

Concen: 0.345 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

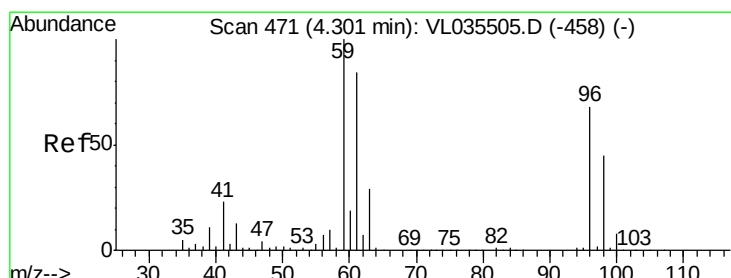
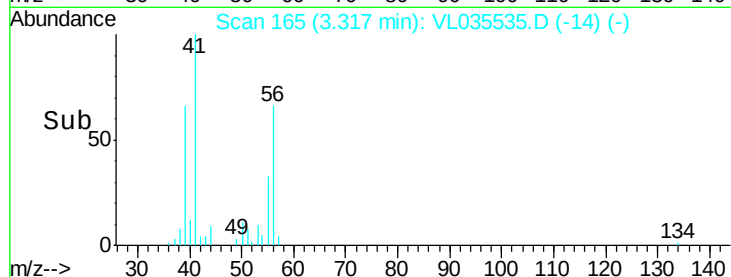
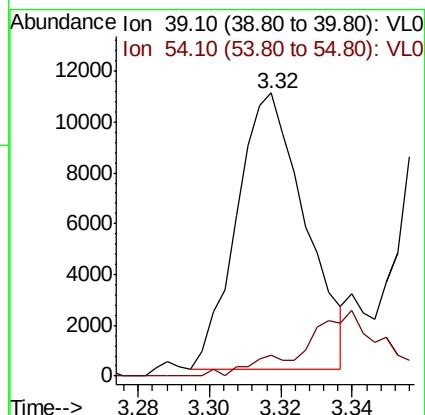
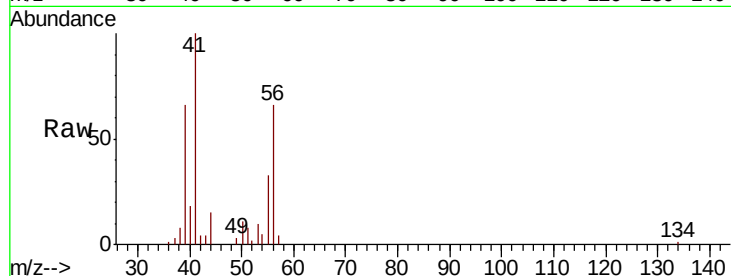
IA-2

Tot Ion: 39 Resp: 14488

Ion Ratio Lower Upper

39 100

54 31.0 88.4 132.6#



#17

tert-Butyl alcohol

Concen: 2.161 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.03 min

Lab File: VL035535.D

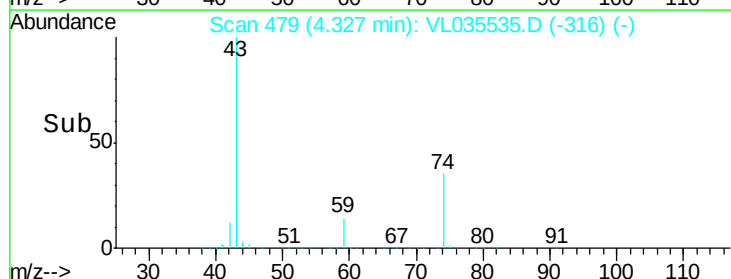
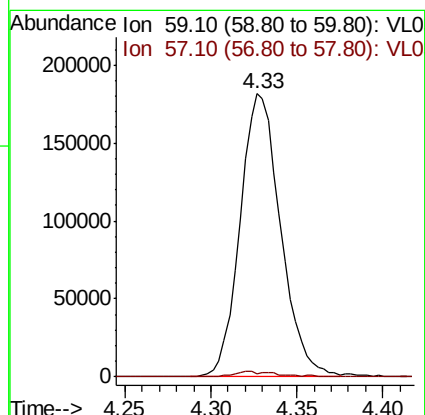
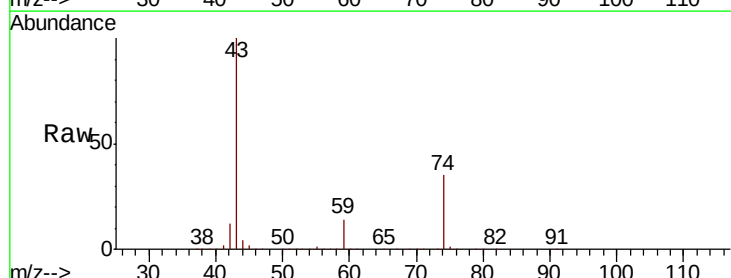
Acq: 3 Sep 2020 17:54

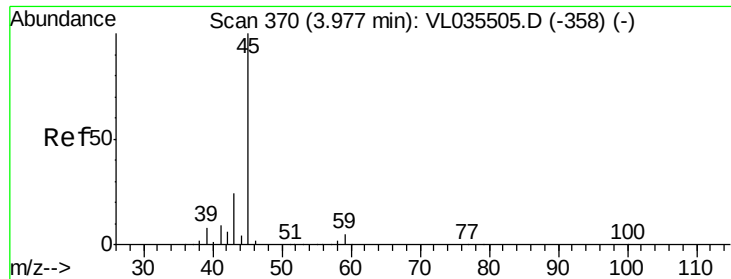
Tgt Ion: 59 Resp: 297020

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



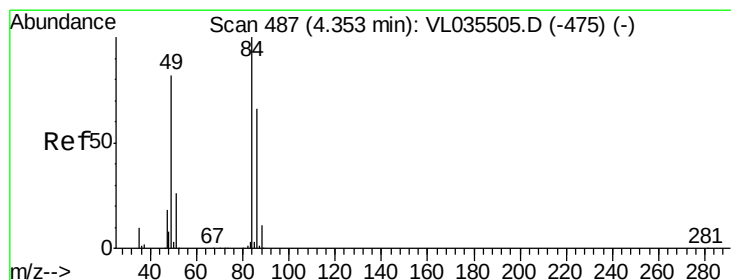
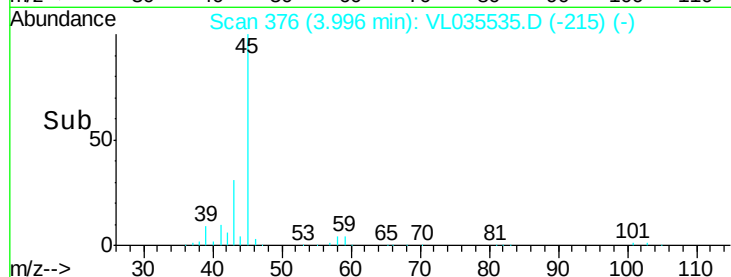
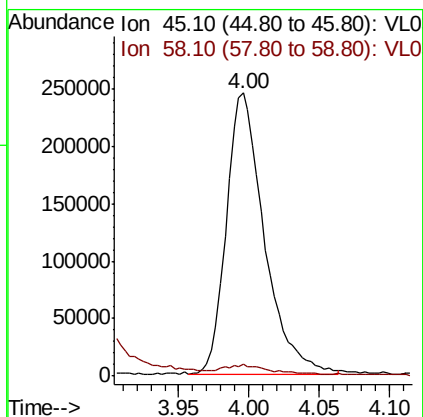
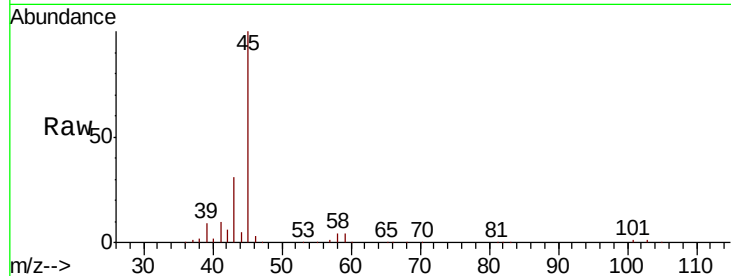


#19

Isopropyl Alcohol  
 Concen: 6.784 ppbv  
 RT: 4.00 min Scan# 376  
 Delta R.T. 0.02 min  
 Lab File: VL035535.D  
 Acq: 3 Sep 2020 17:54

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-2

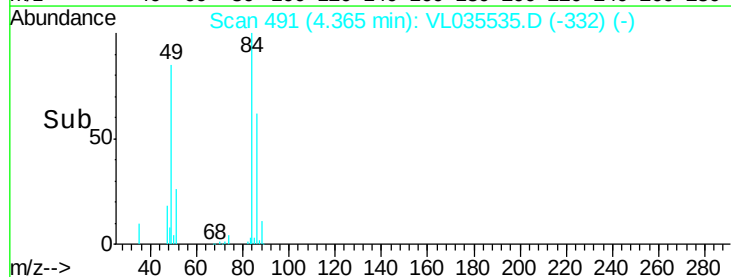
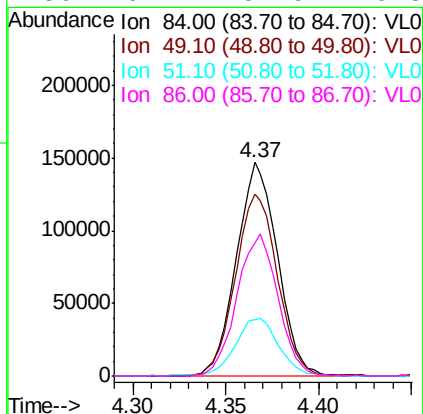
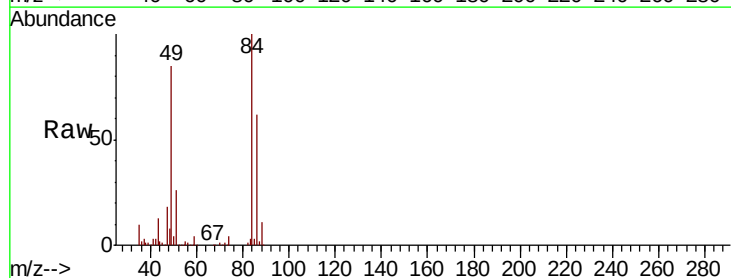
Tot Ion: 45 Resp: 456936  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 2.0 3.0#

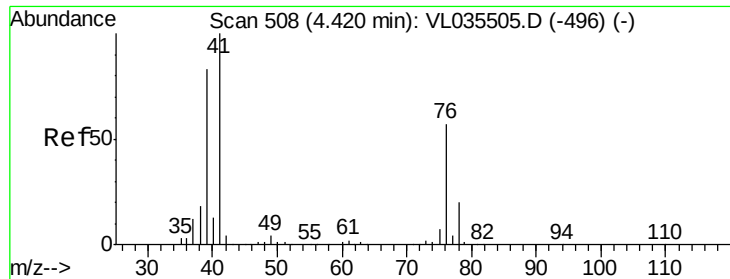


#20

Methylene Chloride  
 Concen: 2.686 ppbv  
 RT: 4.37 min Scan# 491  
 Delta R.T. 0.01 min  
 Lab File: VL035535.D  
 Acq: 3 Sep 2020 17:54

Tgt Ion: 84 Resp: 225904  
 Ion Ratio Lower Upper  
 84 100  
 49 84.7 65.4 98.0  
 51 26.0 21.5 32.3  
 86 62.1 52.9 79.3

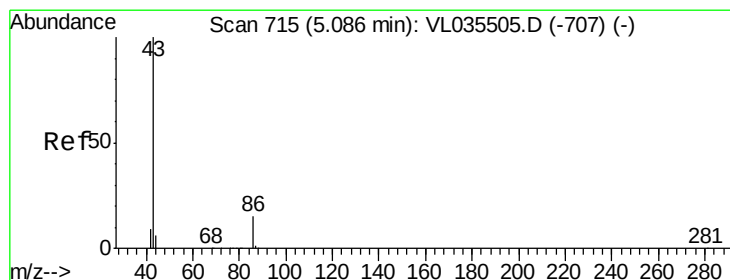
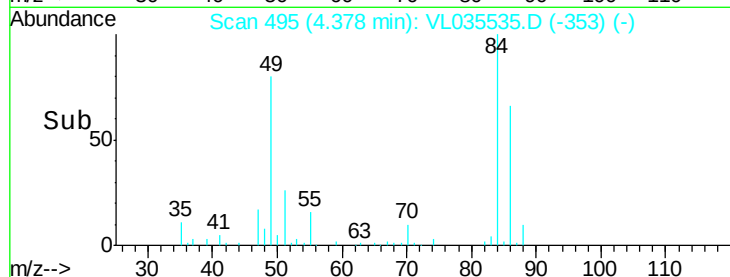
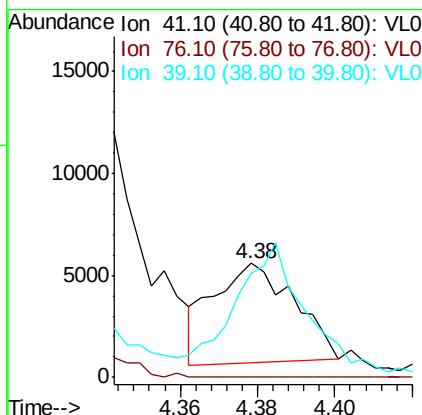
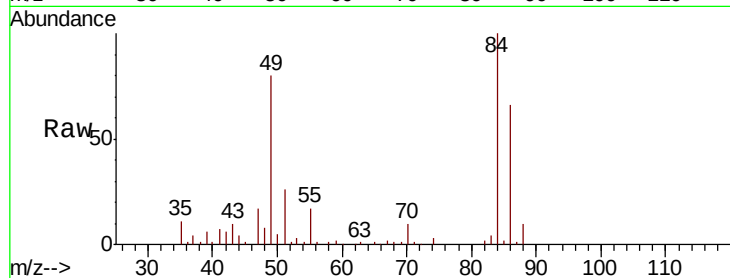




#21  
Allvl Chloride  
Concen: 0.133 ppbv  
RT: 4.38 min Scan# 495  
Delta R.T. -0.04 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

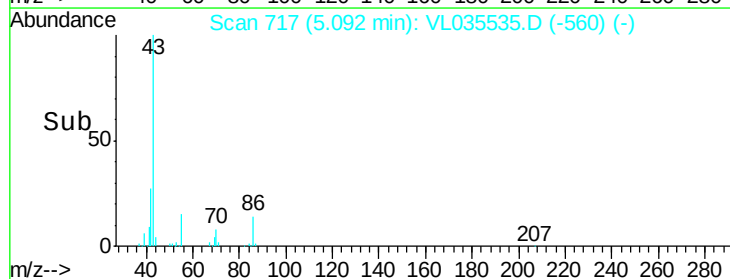
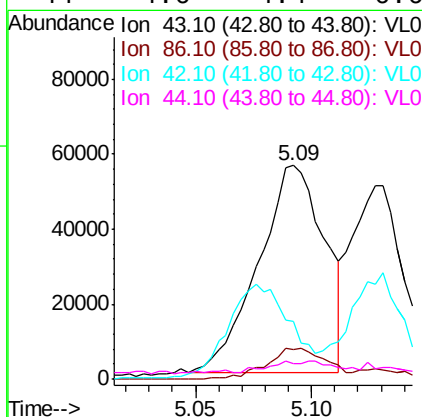
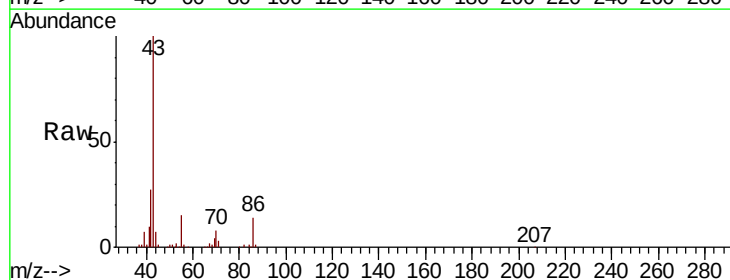
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

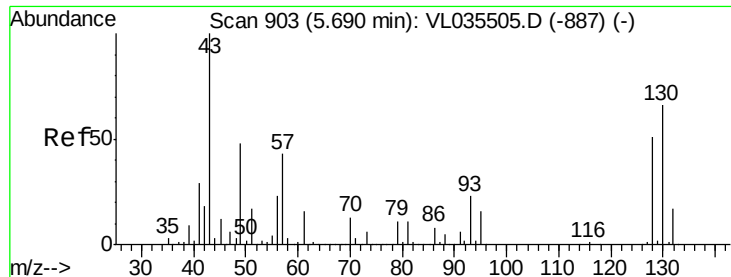
Tot Ion: 41 Resp: 7013  
Ion Ratio Lower Upper  
41 100  
76 0.0 46.2 69.2#  
39 111.9 67.8 101.6#



#23  
Vinyl Acetate  
Concen: 0.755 ppbv  
RT: 5.09 min Scan# 717  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 43 Resp: 109429  
Ion Ratio Lower Upper  
43 100  
86 14.3 10.6 16.0  
42 25.1 7.5 11.3#  
44 4.6 4.4 6.6

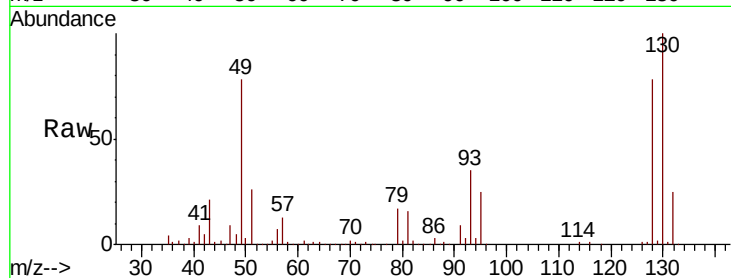




#25  
Ethyl Acetate  
Concen: 1.236 ppbv  
RT: 5.70 min Scan# 907  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 246459 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.6  | 8.4   | 12.6   |
| 61       | 10.7  | 10.6  | 16.0   |
| 70       | 9.6   | 9.4   | 14.2   |



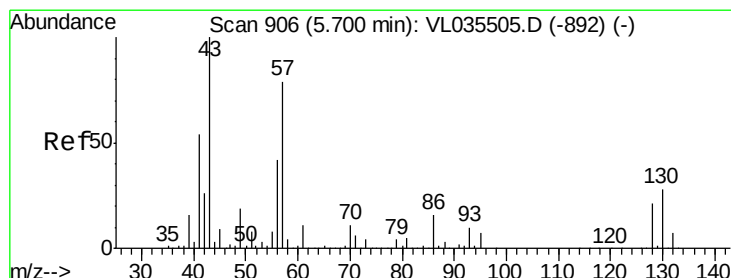
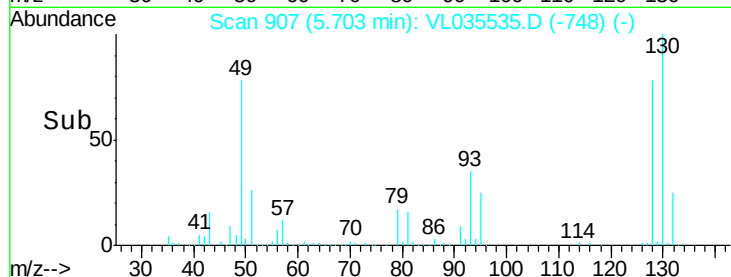
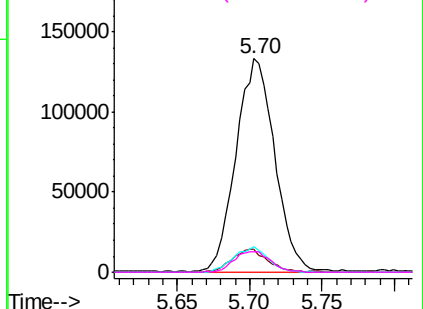
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

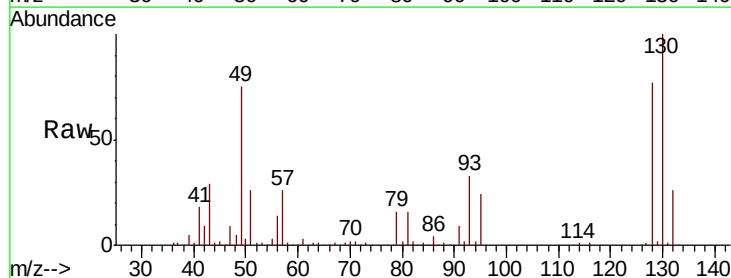
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 1.463 ppbv  
RT: 5.71 min Scan# 909  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 165374 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 73.1  | 55.9  | 83.9   |
| 43       | 147.6 | 141.8 | 212.8  |
| 56       | 55.6  | 41.8  | 62.8   |



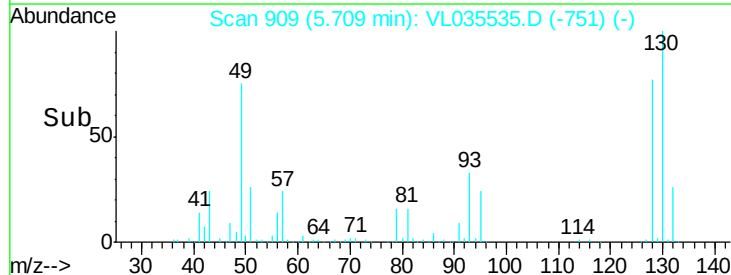
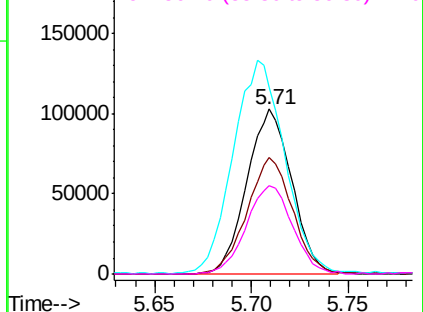
Abundance

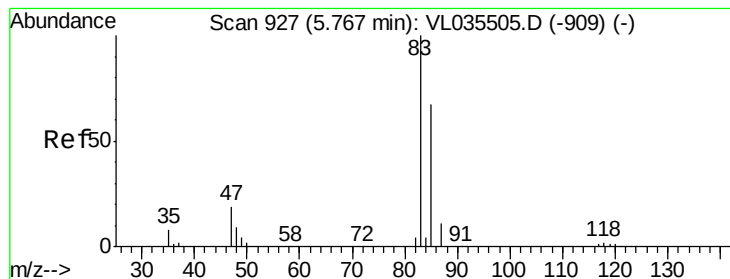
Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.095 ppbv

RT: 5.78 min Scan# 932

Delta R.T. 0.02 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampled :

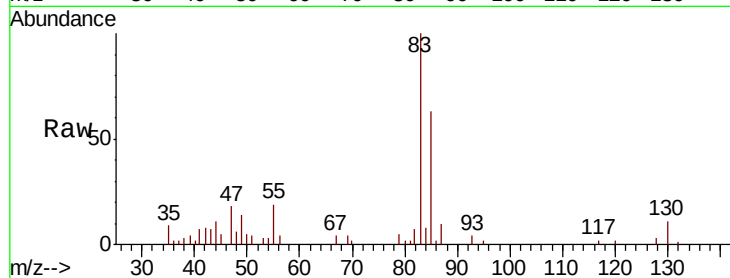
IA-2

Tot Ion: 83 Resp: 21786

Ion Ratio Lower Upper

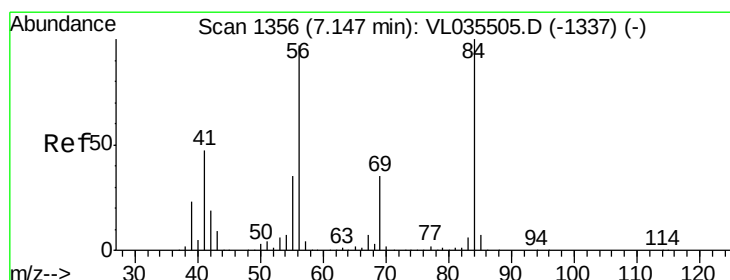
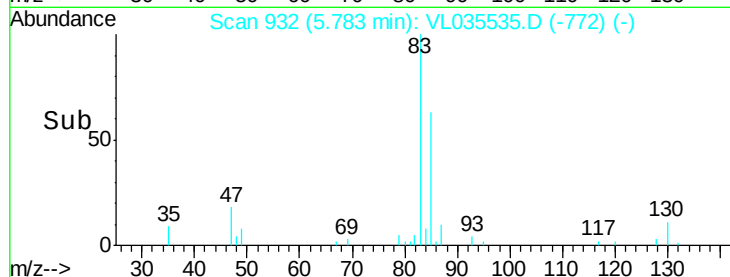
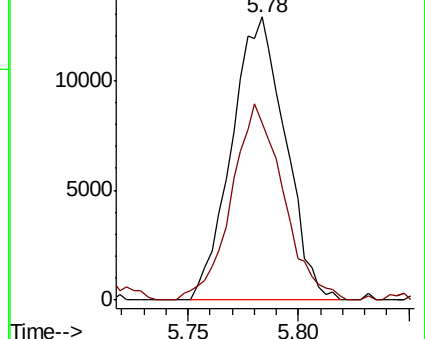
83 100

85 61.1 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.206 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

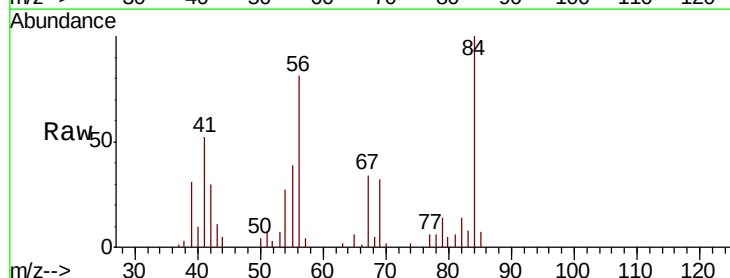
Tgt Ion: 84 Resp: 24927

Ion Ratio Lower Upper

84 100

56 105.3 80.1 120.1

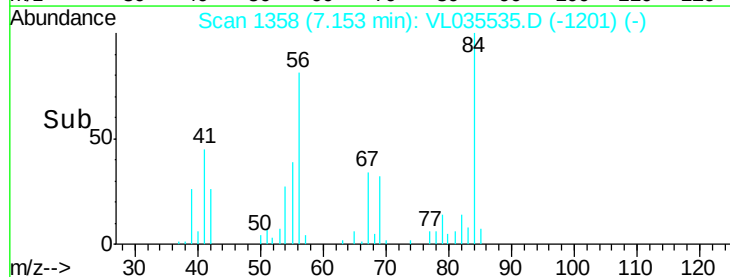
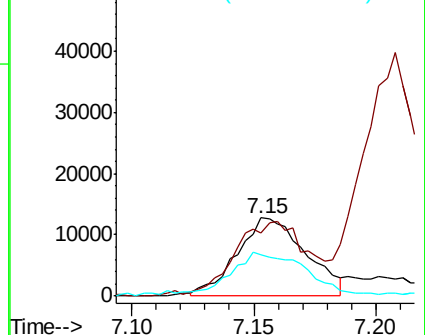
41 59.2 38.1 57.1#

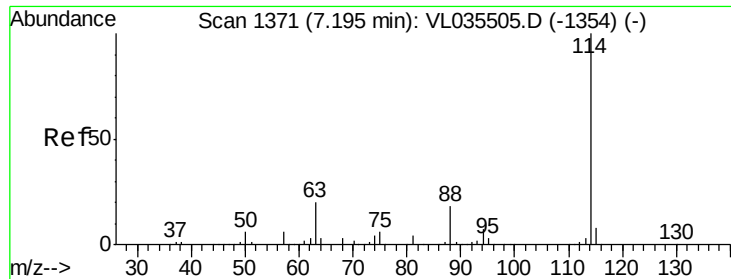


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

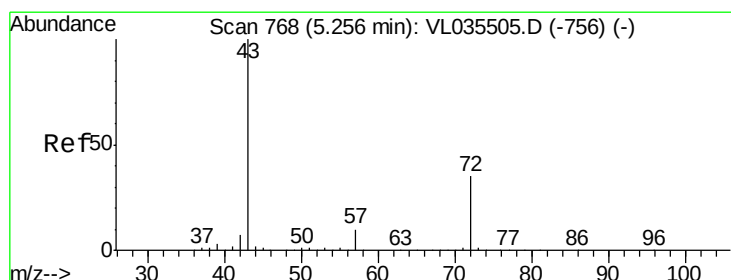
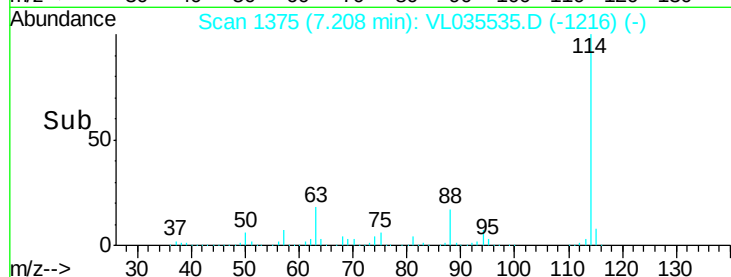
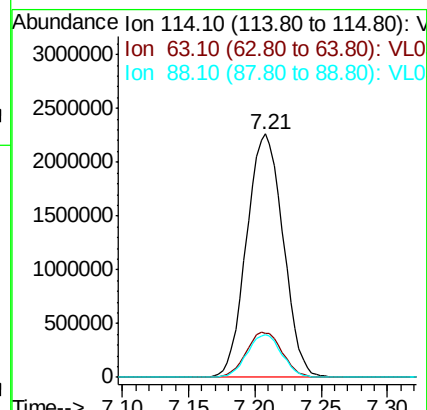
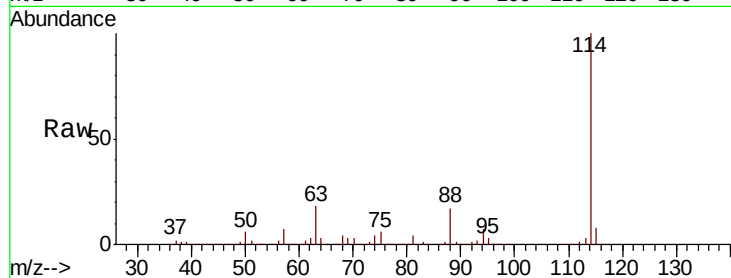




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.21 min Scan# 1375  
 Delta R.T. 0.01 min  
 Lab File: VL035535.D  
 Acq: 3 Sep 2020 17:54

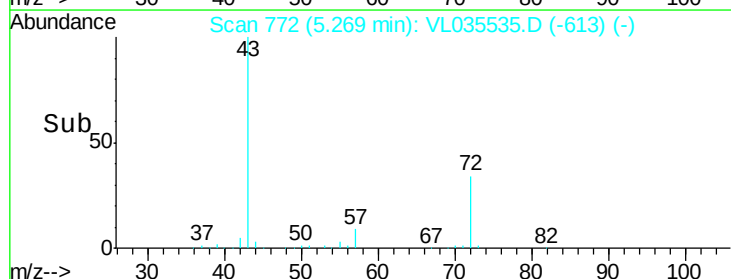
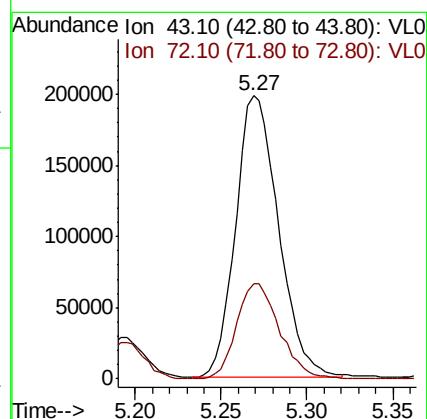
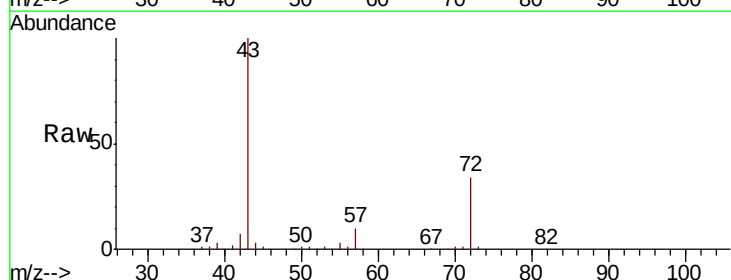
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 IA-2

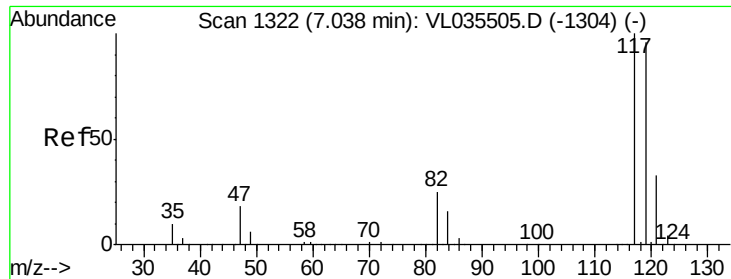
Tot Ion:114 Resp: 4346870  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 14.7 22.1  
 88 16.8 13.4 20.2



#34  
 2-Butanone  
 Concen: 2.662 ppbv  
 RT: 5.27 min Scan# 772  
 Delta R.T. 0.01 min  
 Lab File: VL035535.D  
 Acq: 3 Sep 2020 17:54

Tgt Ion: 43 Resp: 343467  
 Ion Ratio Lower Upper  
 43 100  
 72 33.8 27.7 41.5





#35

Carbon Tetrachloride

Concen: 0.035 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampled :

IA-2

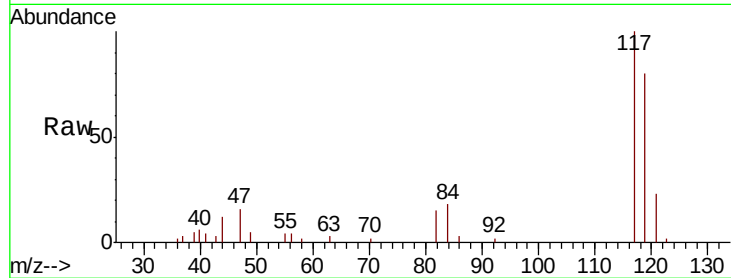
Tot Ion:117 Resp: 7656

Ion Ratio Lower Upper

117 100

119 77.3 77.2 115.8

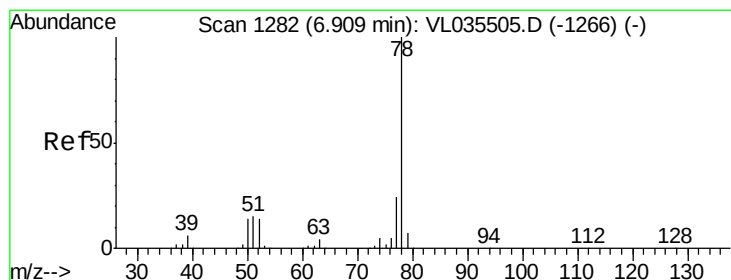
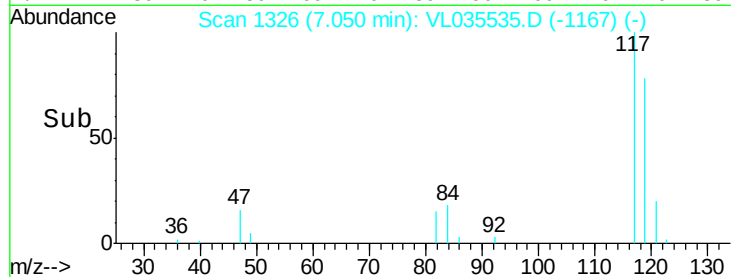
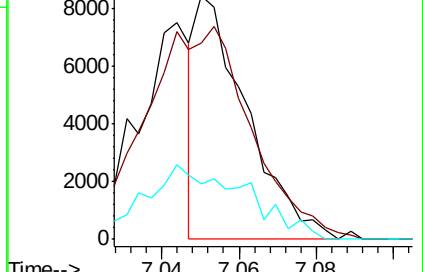
121 22.6 26.1 39.1#



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: 0.443 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

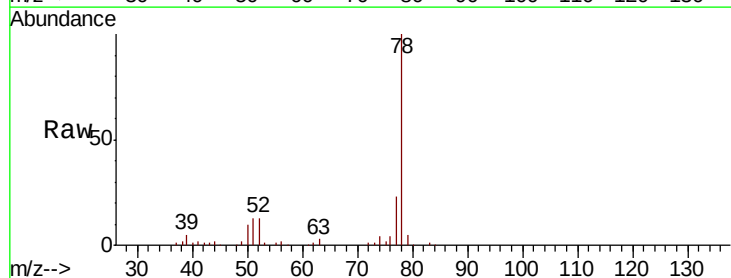
Tgt Ion: 78 Resp: 124622

Ion Ratio Lower Upper

78 100

77 22.8 19.3 28.9

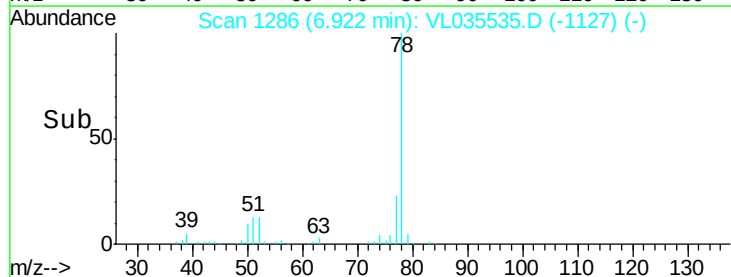
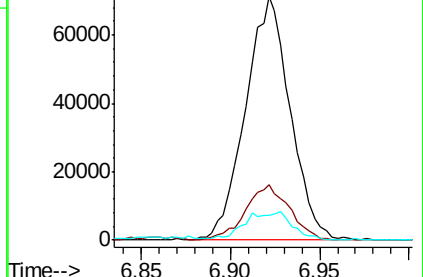
50 9.9 11.0 16.6#

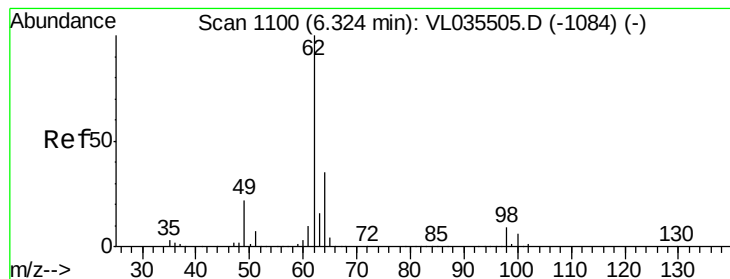


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.095 ppbv

RT: 6.33 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

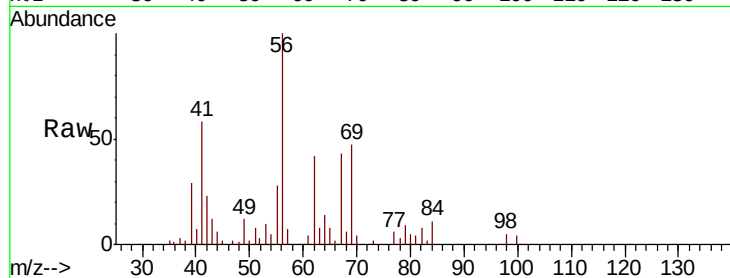
IA-2

Tot Ion: 62 Resp: 12765

Ion Ratio Lower Upper

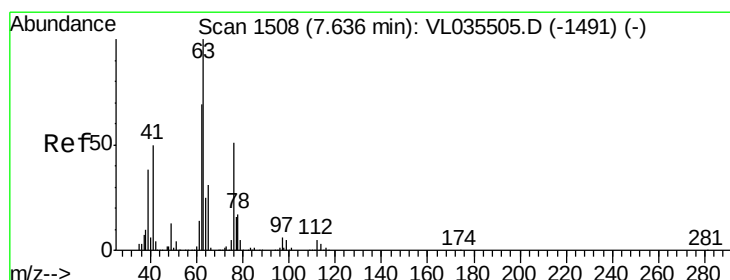
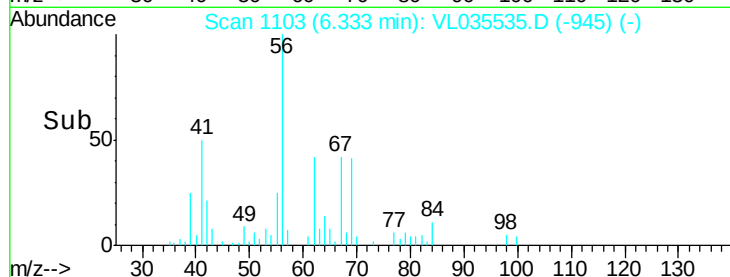
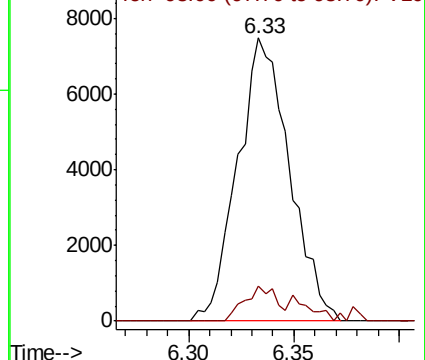
62 100

98 12.3 7.4 11.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 8.357 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.43 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

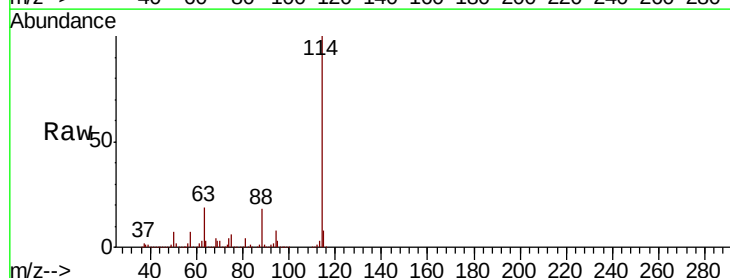
Tgt Ion: 63 Resp: 794401

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

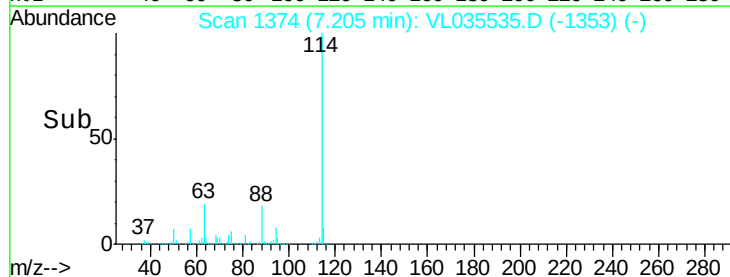
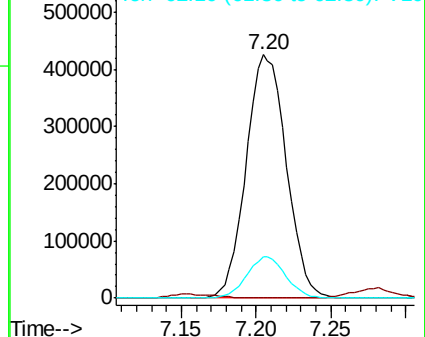
62 16.8 55.4 83.0#



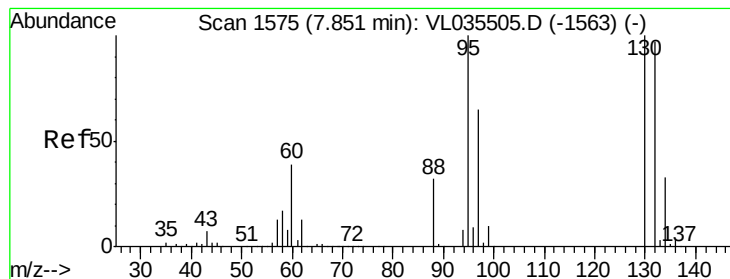
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0







#40

1,4-Dioxane

Concen: 0.062 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.04 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

IA-2

Tot Ion: 88 Resp: 2923

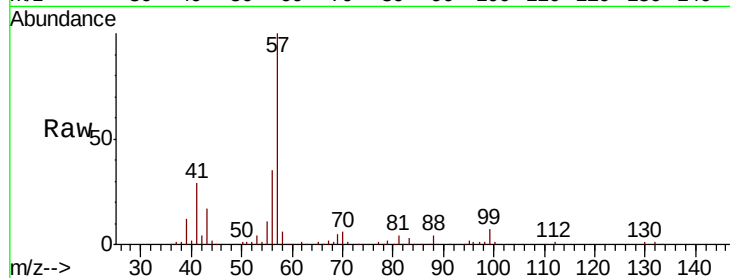
Ion Ratio Lower Upper

88 100

58 0.0 68.7 103.1#

43 0.0 104.3 156.5#

57 0.0 560.7 841.1#



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

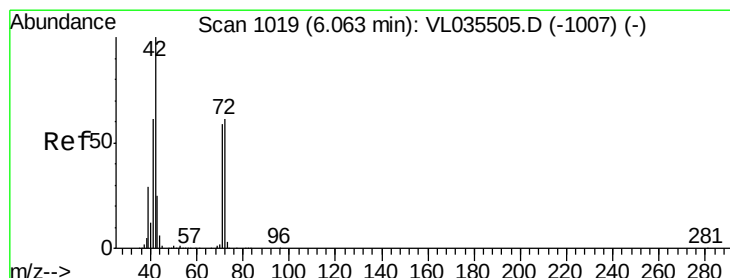
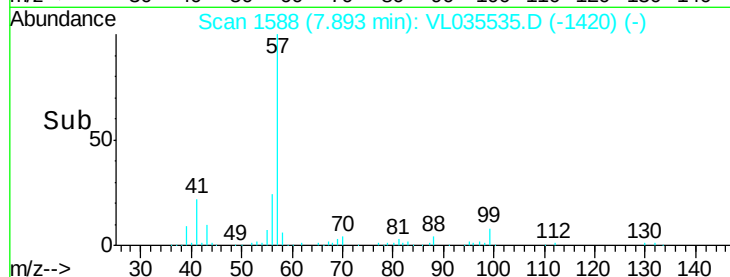
100000

50000

0

7.87 7.88 7.89 7.90 7.91

Time-->



#41

Tetrahydrofuran

Concen: 0.068 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. 0.02 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

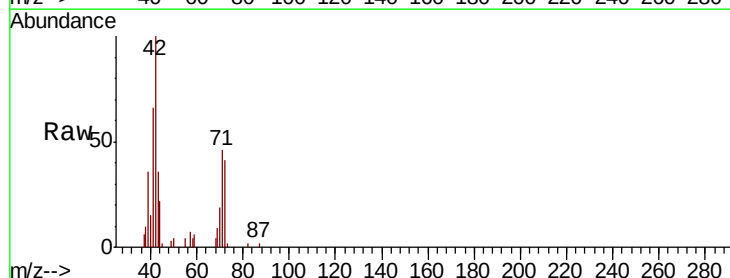
Tgt Ion: 42 Resp: 4658

Ion Ratio Lower Upper

42 100

72 0.0 48.6 73.0#

71 0.0 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

10000

8000

6000

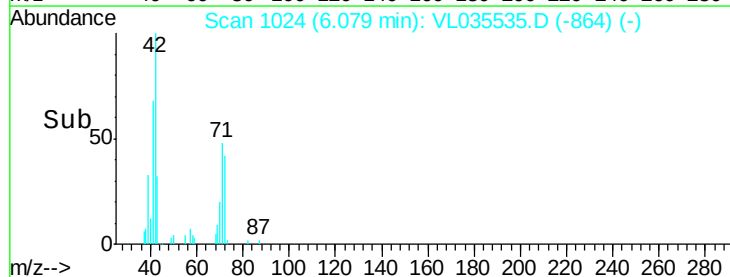
4000

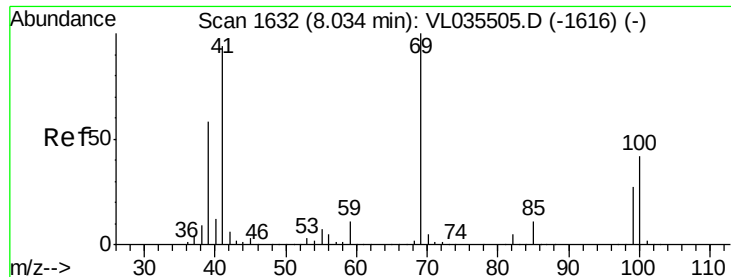
2000

0

6.06 6.07 6.08

Time-->





#43

Methyl Methacrylate

Concen: 0.039 ppbv

RT: 8.05 min Scan# 1637

Delta R.T. 0.02 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

IA-2

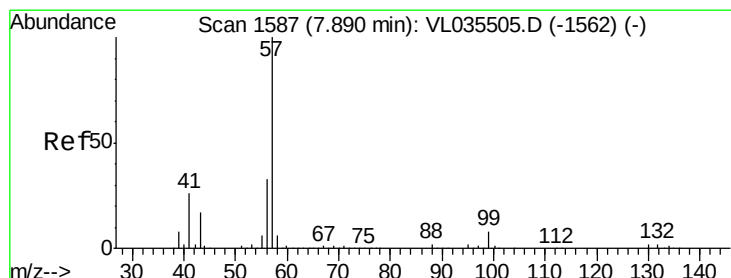
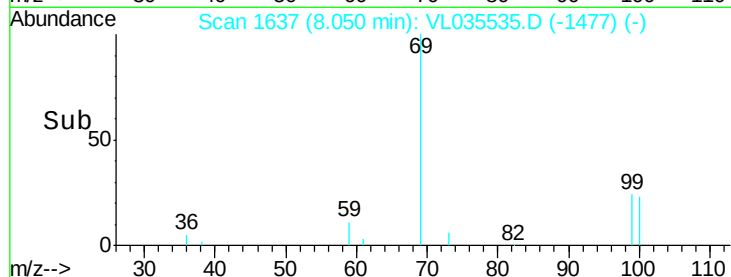
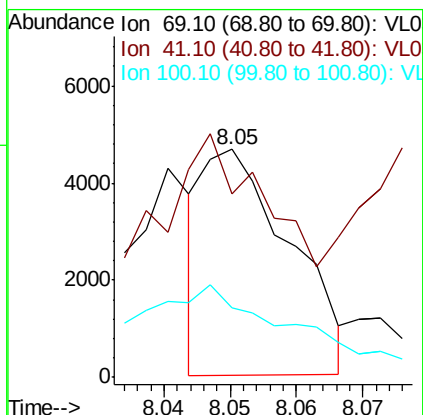
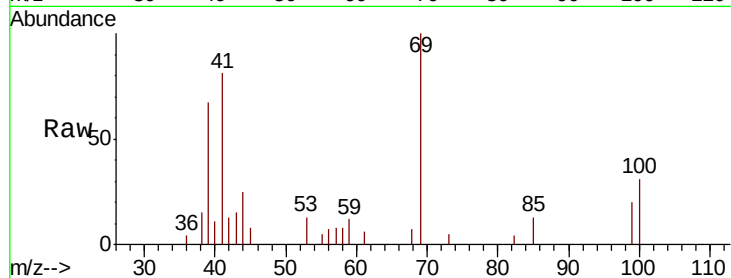
Tot Ion: 69 Resp: 4208

Ion Ratio Lower Upper

69 100

41 0.0 76.6 114.8#

100 79.8 33.8 50.6#



#44

2,2,4-Trimethylpentane

Concen: 0.538 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

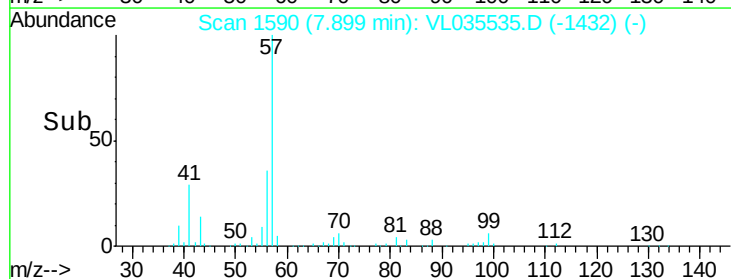
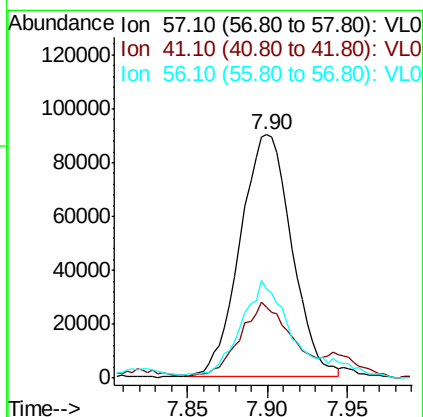
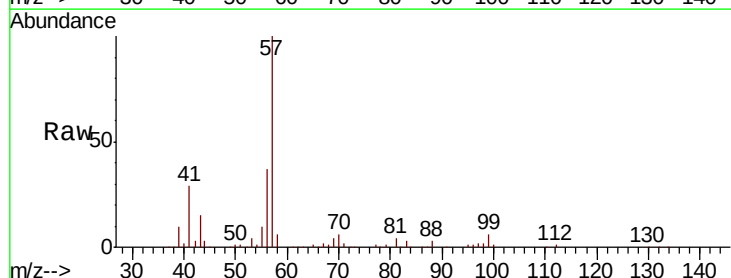
Tgt Ion: 57 Resp: 199198

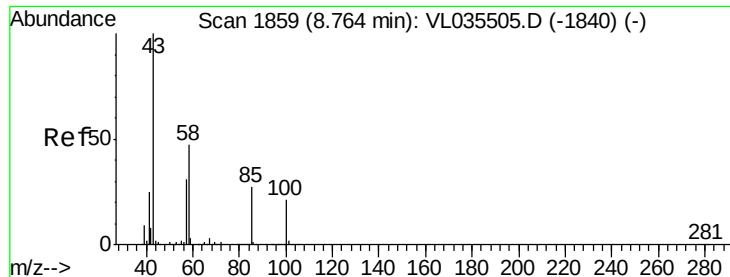
Ion Ratio Lower Upper

57 100

41 37.3 20.5 30.7#

56 42.9 25.3 37.9#

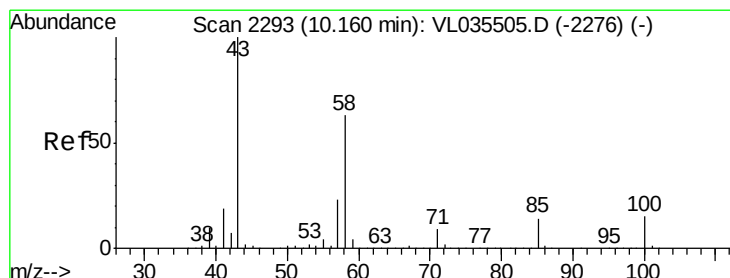
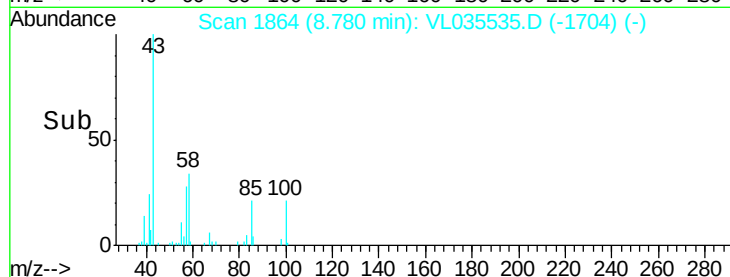
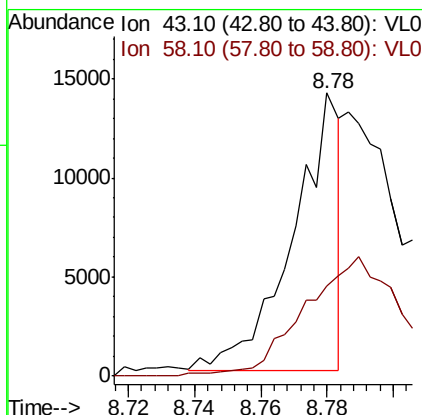
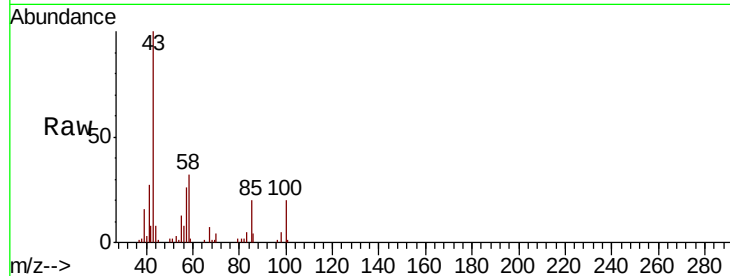




#50  
4-Methyl-2-Pentanone  
Concen: 0.074 ppbv  
RT: 8.78 min Scan# 1864  
Delta R.T. 0.02 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

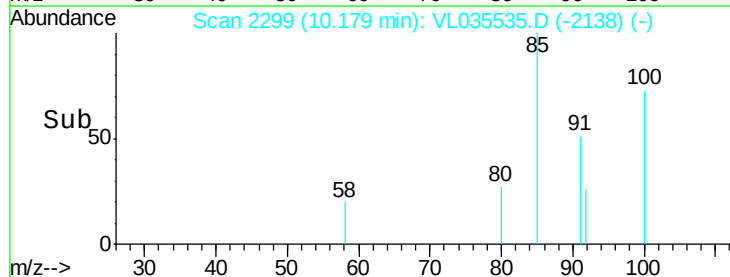
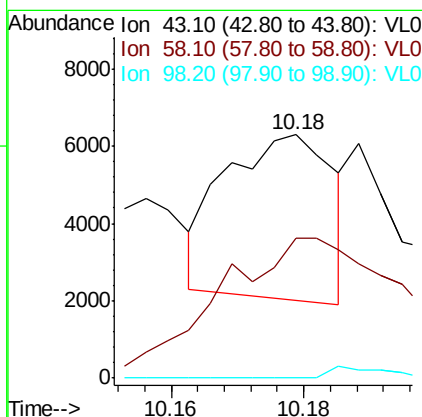
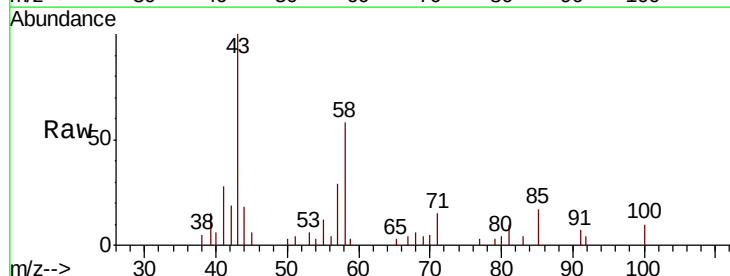
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

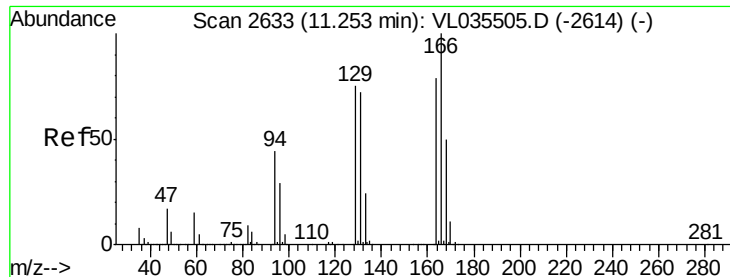
Tot Ion: 43 Resp: 13885  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.4 56.0#



#51  
2-Hexanone  
Concen: 0.031 ppbv  
RT: 10.18 min Scan# 2299  
Delta R.T. 0.02 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 43 Resp: 4792  
Ion Ratio Lower Upper  
43 100  
58 177.2 50.2 75.4#  
98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.139 ppbv

RT: 11.26 min Scan# 2636

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

IA-2

Tot Ion:164 Resp: 22793

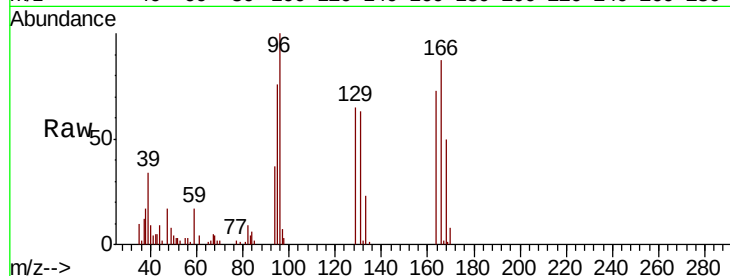
Ion Ratio Lower Upper

164 100

166 116.8 100.9 151.3

129 89.5 75.3 112.9

131 86.4 73.0 109.4



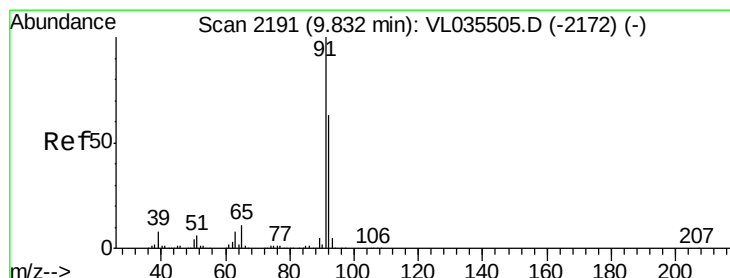
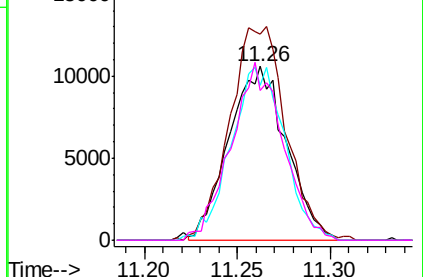
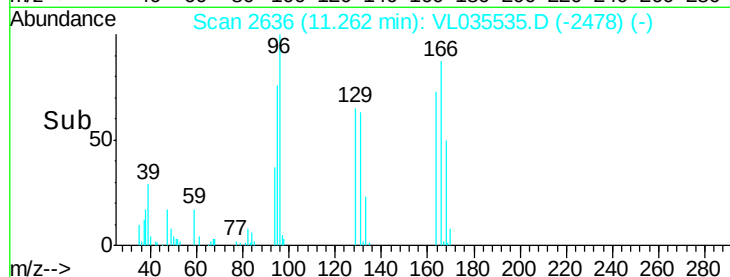
Abundance Ion 163.90 (163.60 to 164.60): V

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

Time-->



#53

Toluene

Concen: 3.205 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL035535.D

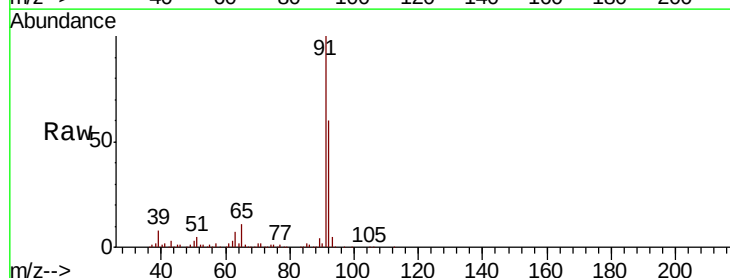
Acq: 3 Sep 2020 17:54

Tgt Ion: 91 Resp: 1134092

Ion Ratio Lower Upper

91 100

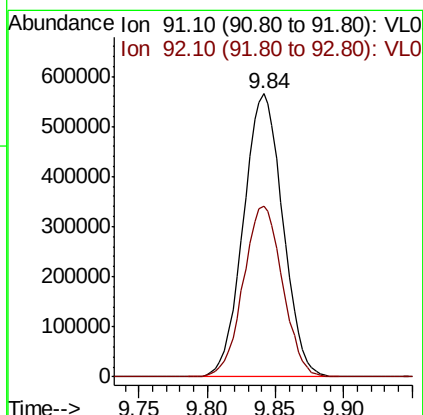
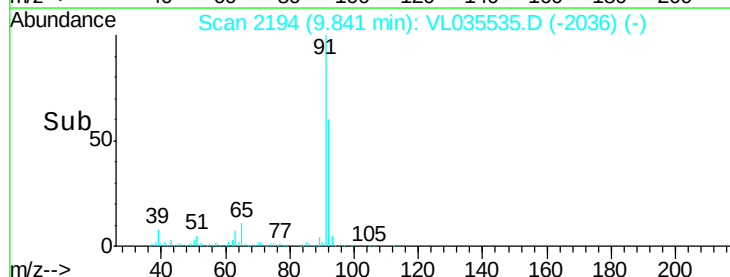
92 60.2 49.8 74.8

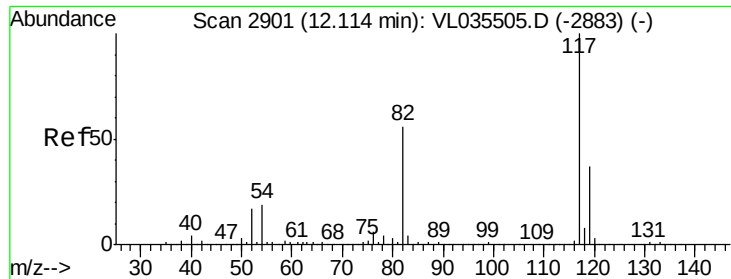


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

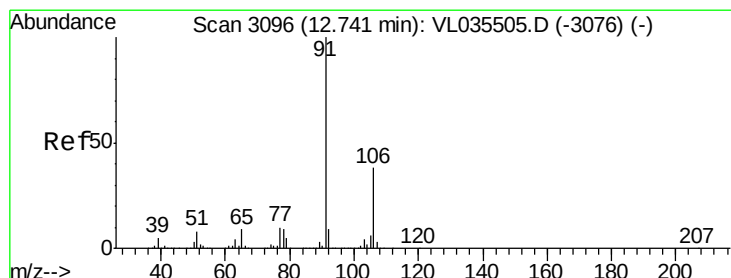
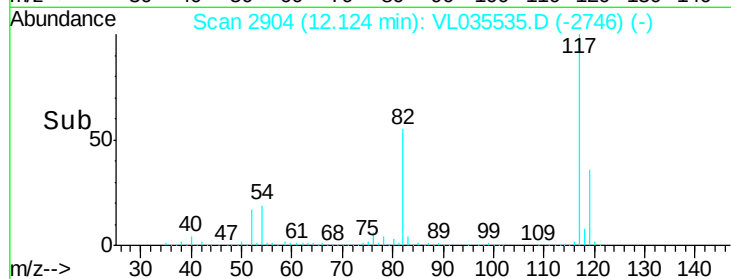
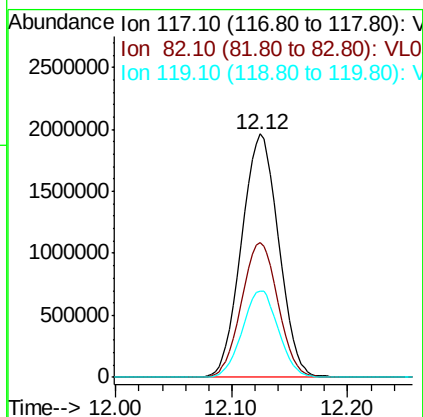
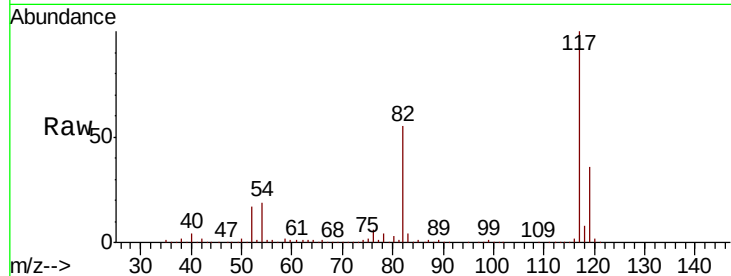




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

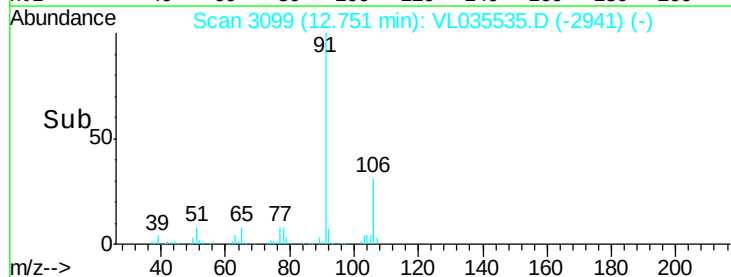
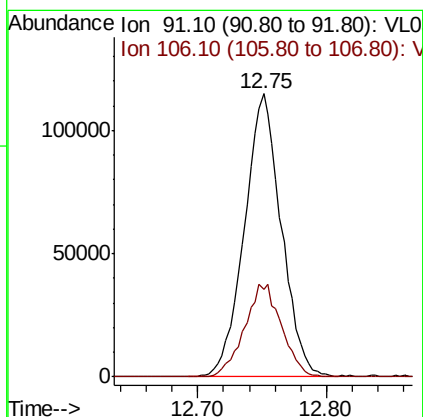
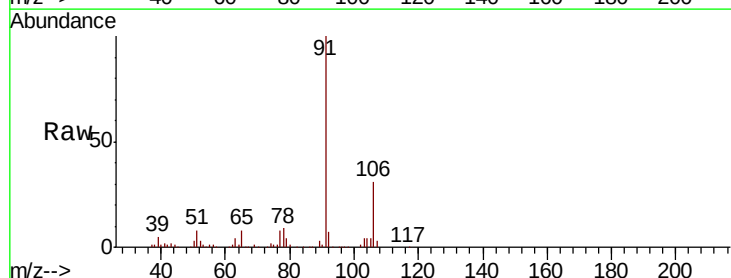
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

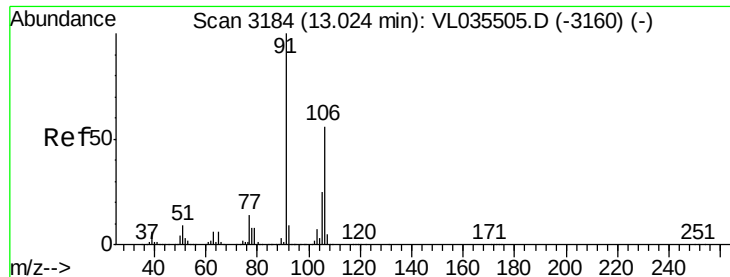
Tot Ion:117 Resp: 4371023  
Ion Ratio Lower Upper  
117 100  
82 54.7 41.6 62.4  
119 34.9 29.3 43.9



#58  
Ethyl Benzene  
Concen: 0.508 ppbv  
RT: 12.75 min Scan# 3099  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 91 Resp: 228997  
Ion Ratio Lower Upper  
91 100  
106 31.1 30.3 45.5

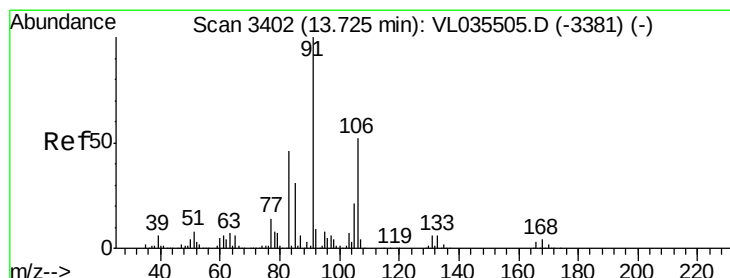
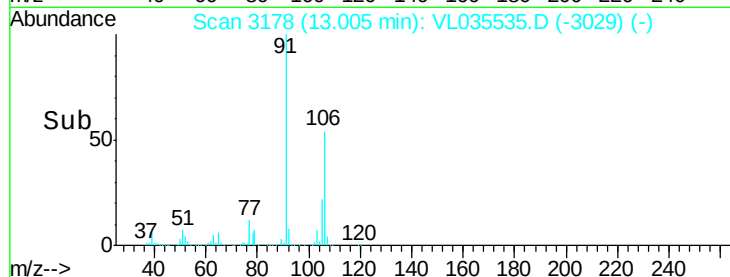
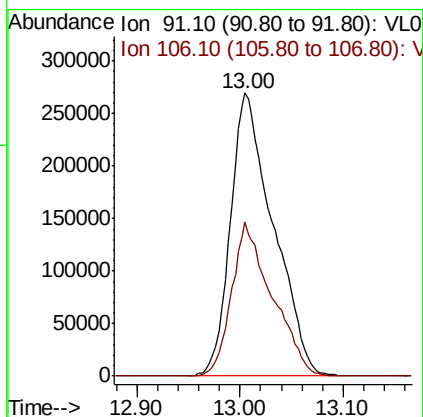
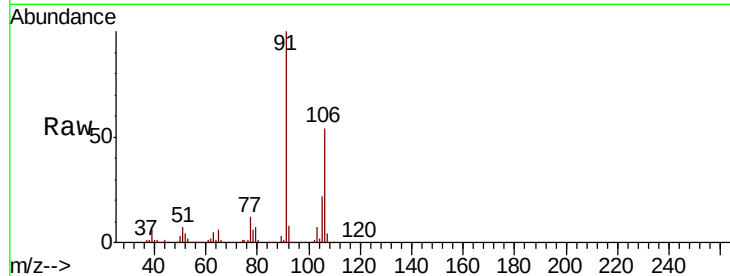




#59  
m/p-Xylene  
Concen: 2.059 ppbv  
RT: 13.00 min Scan# 3178  
Delta R.T. -0.02 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

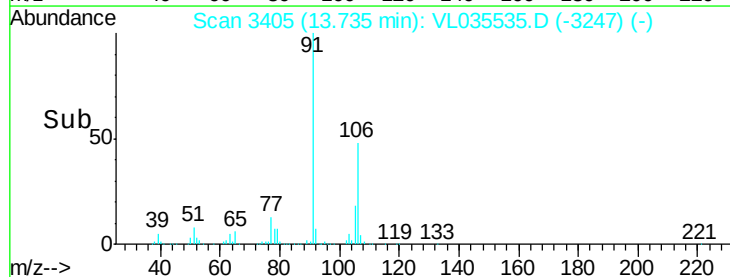
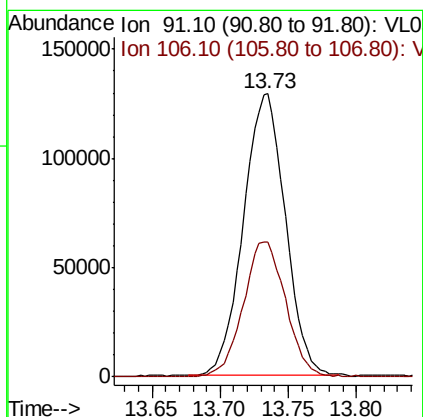
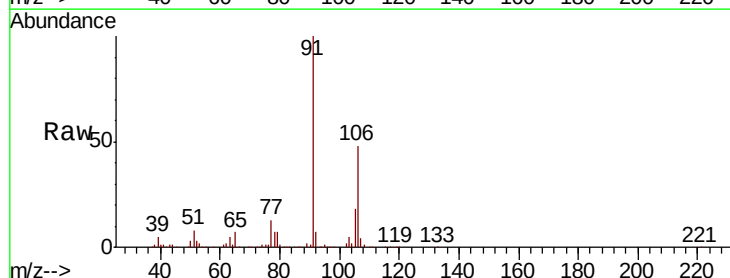
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

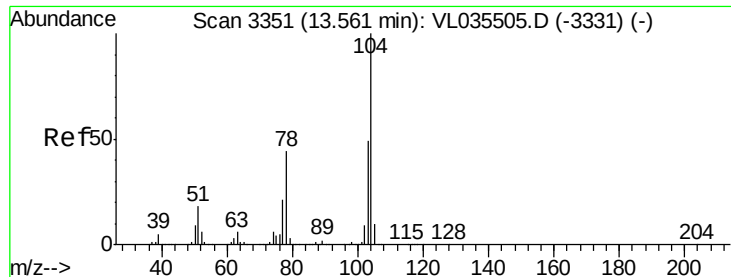
Tot Ion: 91 Resp: 775664  
Ion Ratio Lower Upper  
91 100  
106 51.7 43.4 65.2



#60  
o-Xylene  
Concen: 0.726 ppbv  
RT: 13.73 min Scan# 3405  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 91 Resp: 275436  
Ion Ratio Lower Upper  
91 100  
106 48.7 25.8 77.4





#61

Stvrene

Concen: 0.054 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

IA-2

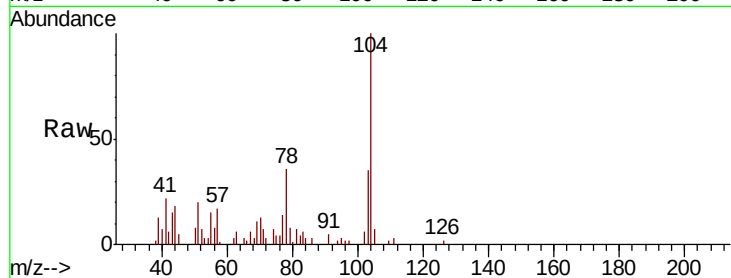
Tot Ion:104 Resp: 15608

Ion Ratio Lower Upper

104 100

78 69.9 34.8 52.2#

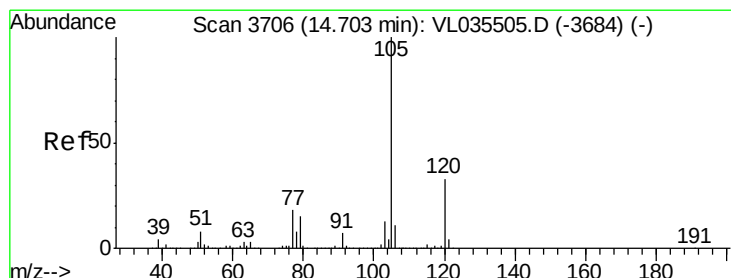
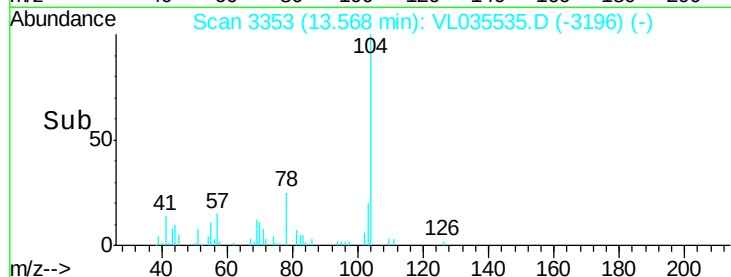
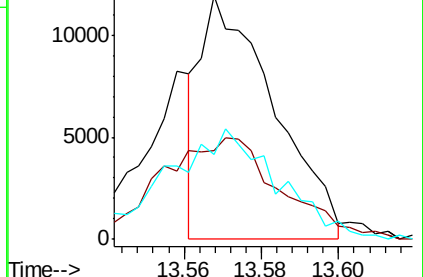
103 69.7 38.2 57.4#



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: 0.038 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.01 min

Lab File: VL035535.D

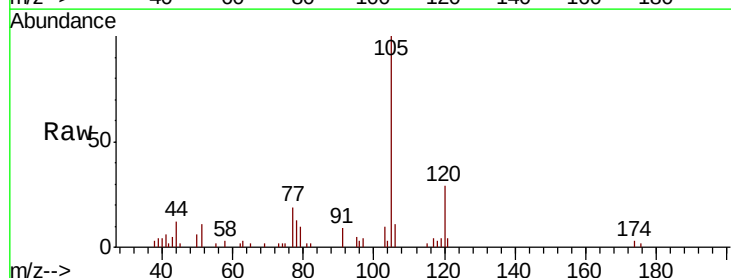
Acq: 3 Sep 2020 17:54

Tgt Ion:105 Resp: 23362

Ion Ratio Lower Upper

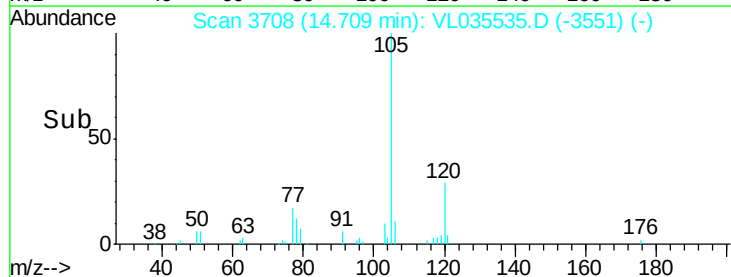
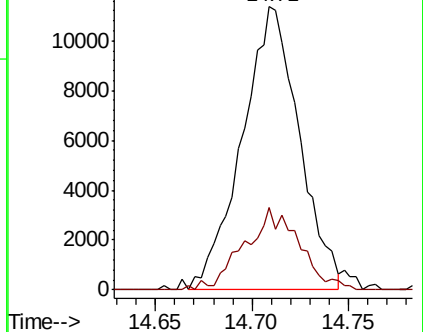
105 100

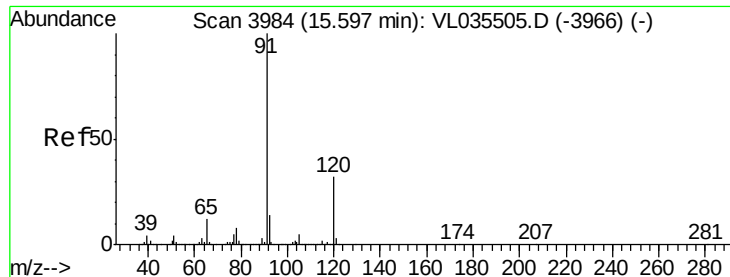
120 27.8 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.043 ppbv

RT: 15.61 min Scan# 3988

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

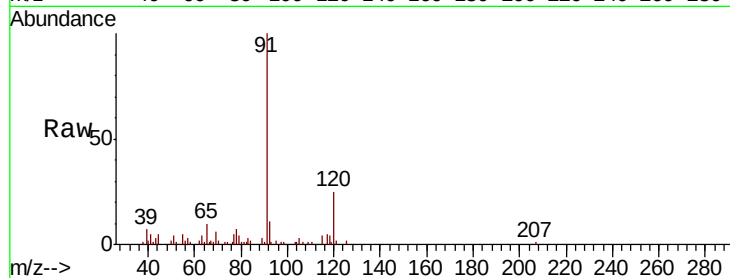
IA-2

Tot Ion:120 Resp: 8043

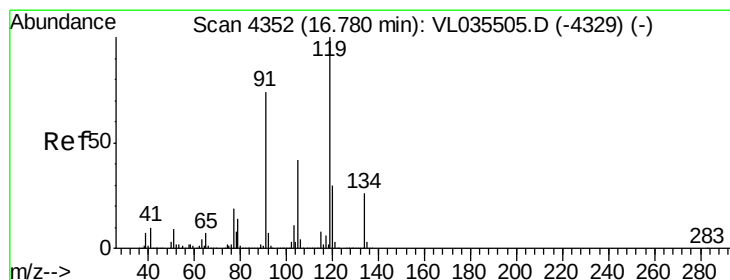
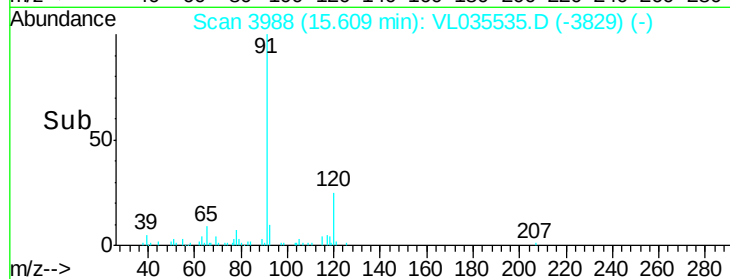
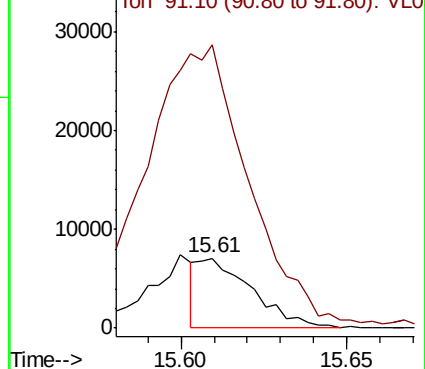
Ion Ratio Lower Upper

120 100

91 778.6 279.4 419.0#



Abundance Ion 120.20 (119.90 to 120.90): V



#65

tert-Butylbenzene

Concen: 0.075 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.03 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

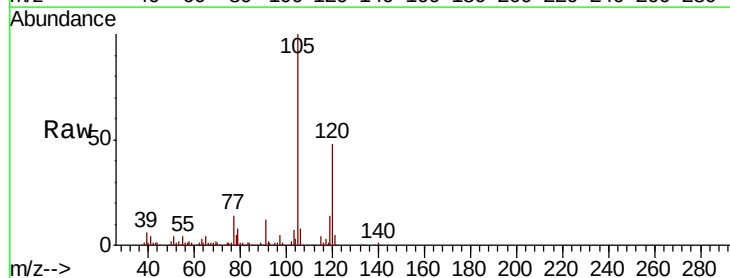
Tgt Ion:119 Resp: 42276

Ion Ratio Lower Upper

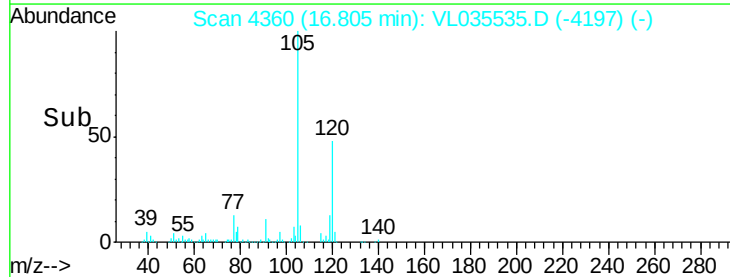
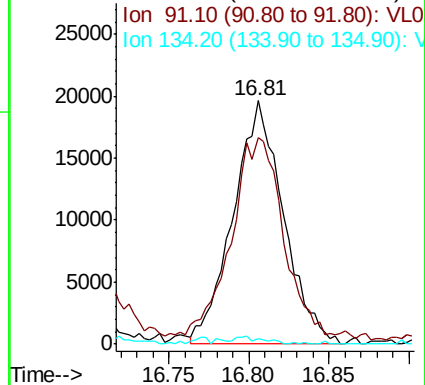
119 100

91 87.3 58.6 87.8

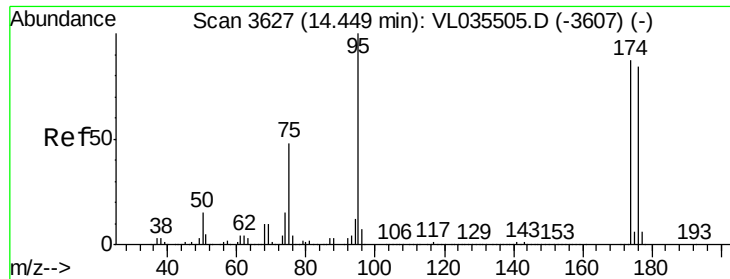
134 3.3 18.9 28.3#



Abundance Ion 119.20 (118.90 to 119.90): V



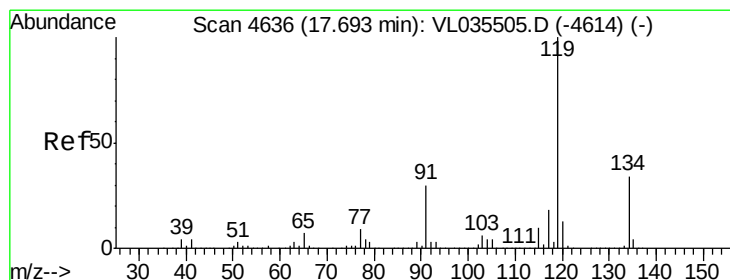
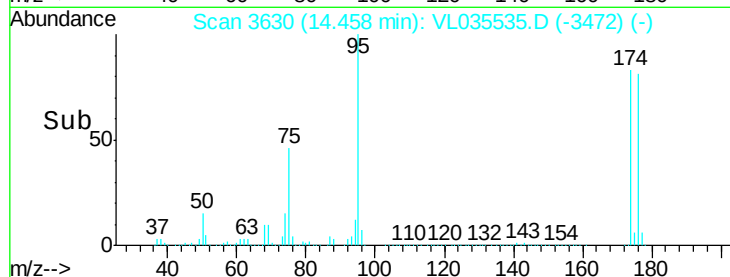
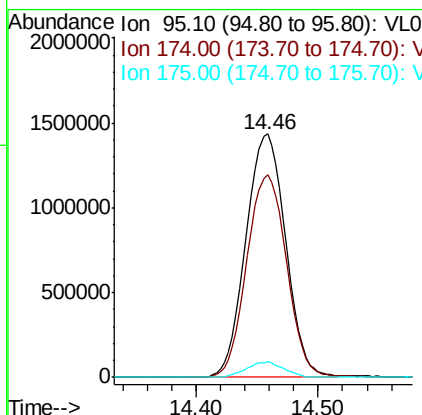
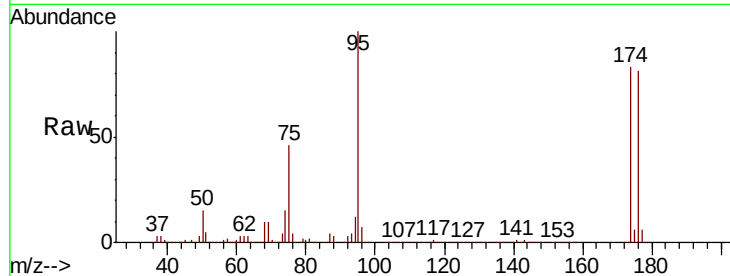




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.431 ppbv  
RT: 14.46 min Scan# 3630  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

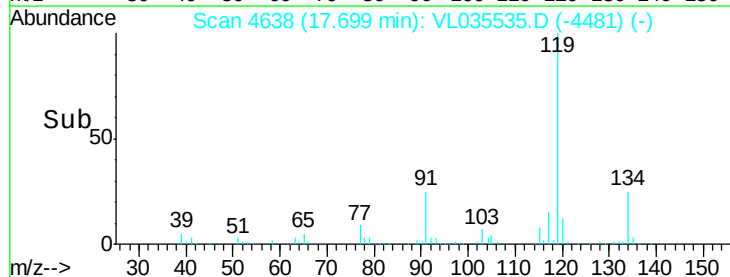
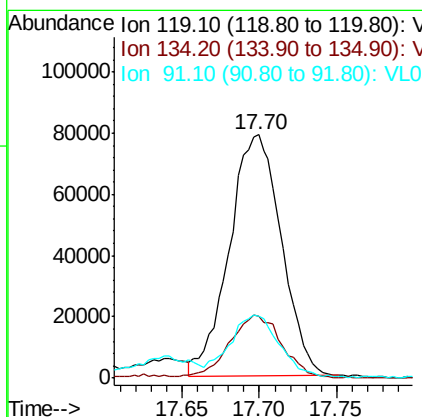
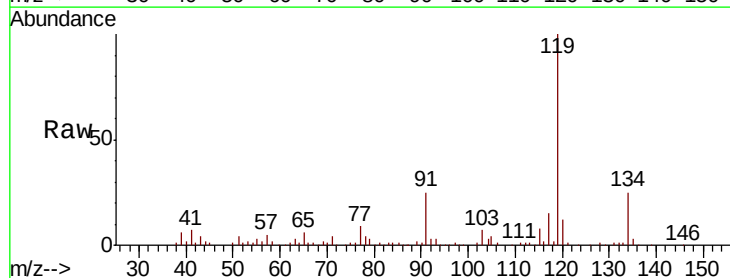
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2

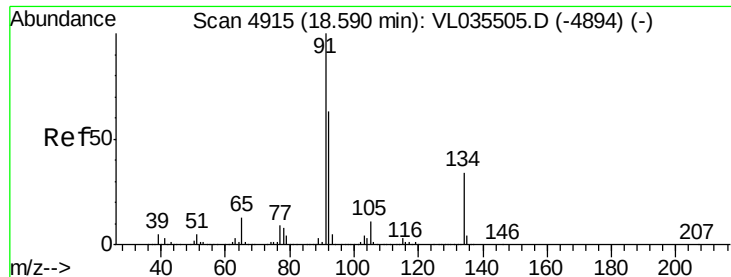
Tot Ion: 95 Resp: 3237908  
Ion Ratio Lower Upper  
95 100  
174 84.2 69.6 104.4  
175 6.1 5.1 7.7



#69  
p-Isopropyltoluene  
Concen: 0.277 ppbv  
RT: 17.70 min Scan# 4638  
Delta R.T. 0.01 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 119 Resp: 183451  
Ion Ratio Lower Upper  
119 100  
134 27.2 25.0 37.4  
91 25.2 22.3 33.5

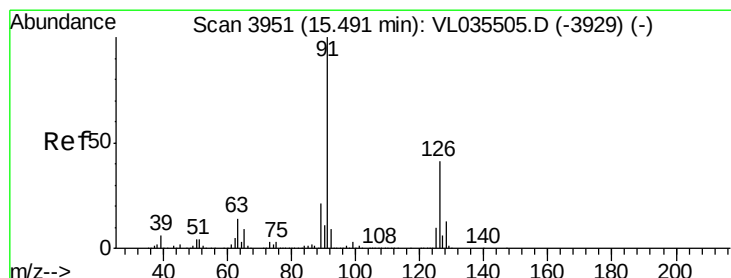
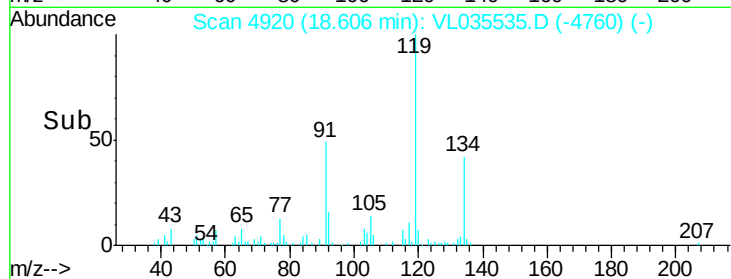
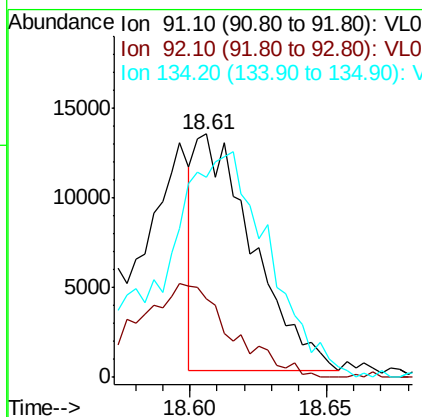
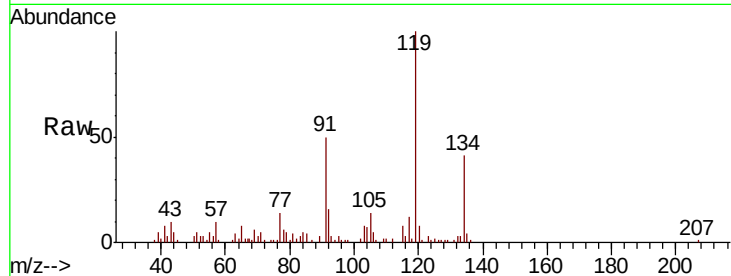




#70  
n-Butylbenzene  
Concen: 0.030 ppbv  
RT: 18.61 min Scan# 4920  
Delta R.T. 0.02 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

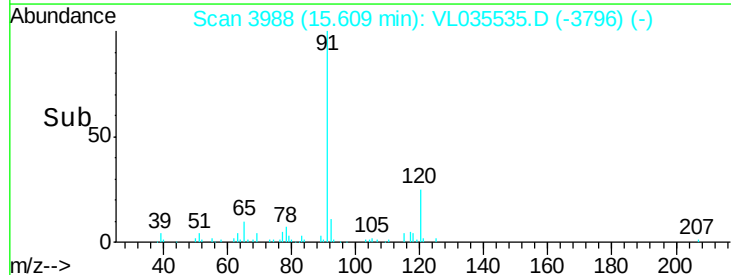
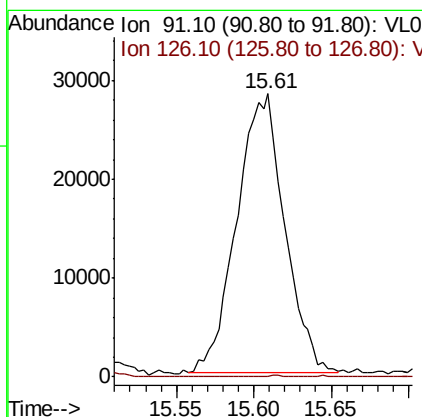
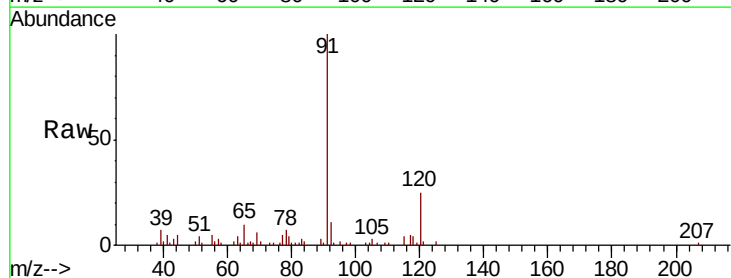
Instrument :  
MSVOA\_L  
ClientSampleID :  
IA-2

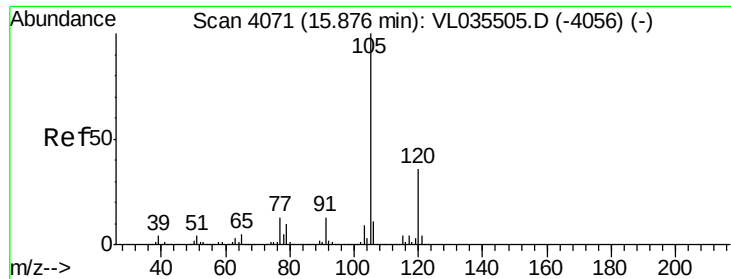
Tot Ion: 91 Resp: 19387  
Ion Ratio Lower Upper  
91 100  
92 0.0 47.3 70.9#  
134 206.3 24.6 37.0#



#71  
2-Chlorotoluene  
Concen: 0.136 ppbv  
RT: 15.61 min Scan# 3988  
Delta R.T. 0.12 min  
Lab File: VL035535.D  
Acq: 3 Sep 2020 17:54

Tgt Ion: 91 Resp: 60529  
Ion Ratio Lower Upper  
91 100  
126 2.1 15.6 62.6#





#72

4-Ethyltoluene

Concen: 0.165 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampleId :

IA-2

Tot Ion:105 Resp: 79722

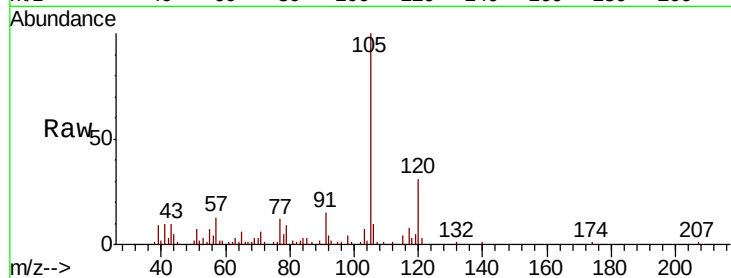
Ion Ratio Lower Upper

105 100

120 32.6 27.4 41.2

91 23.9 9.7 14.5#

77 13.4 9.6 14.4

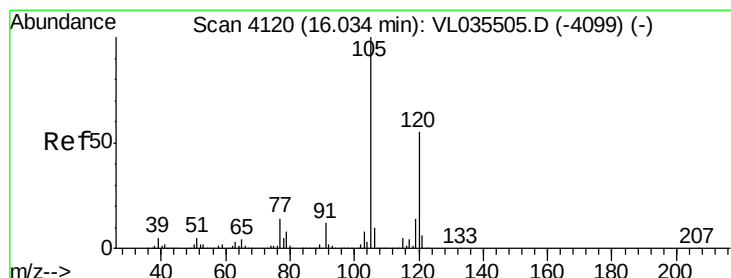
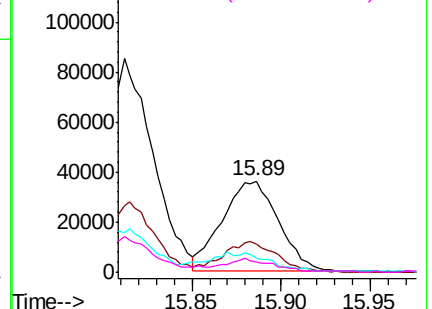
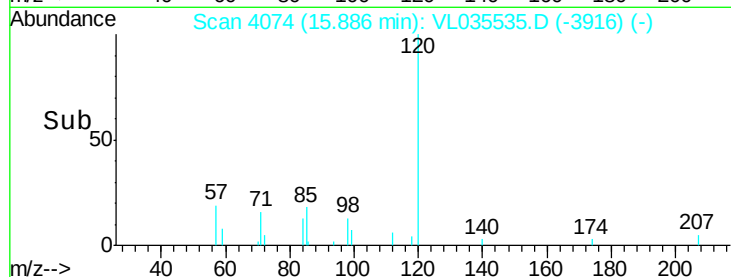


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.192 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035535.D

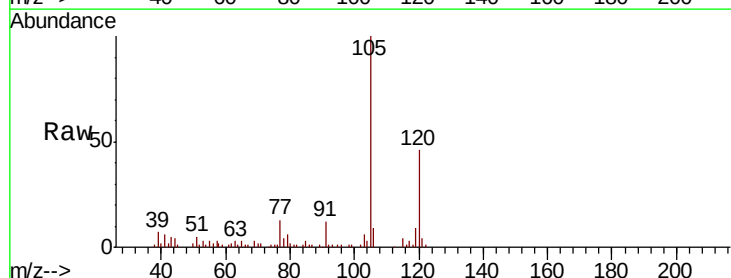
Acq: 3 Sep 2020 17:54

Tgt Ion:105 Resp: 85785

Ion Ratio Lower Upper

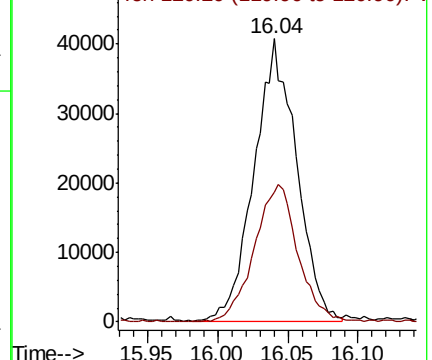
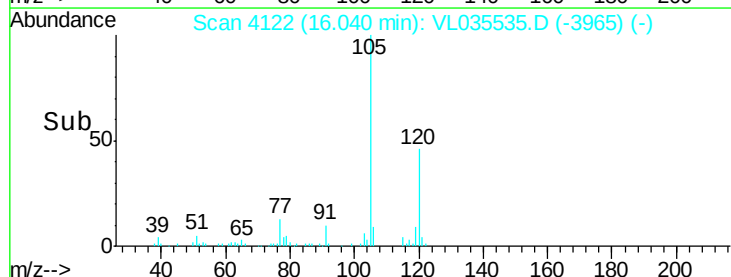
105 100

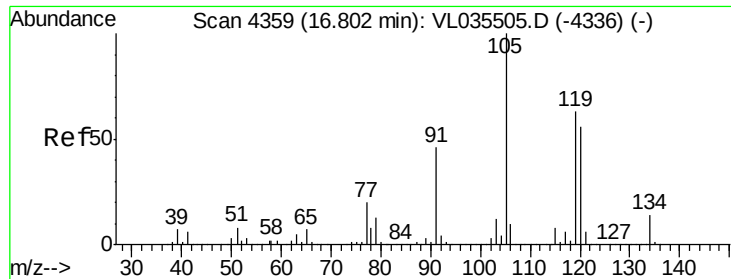
120 46.0 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.651 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampled :

IA-2

Tot Ion:105 Resp: 318952

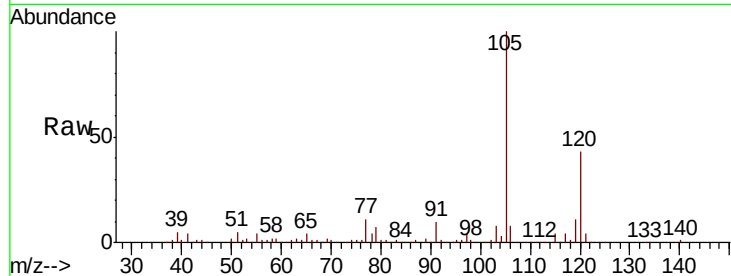
Ion Ratio Lower Upper

105 100

120 42.4 44.4 66.6#

91 9.7 37.1 55.7#

77 10.9 16.0 24.0#

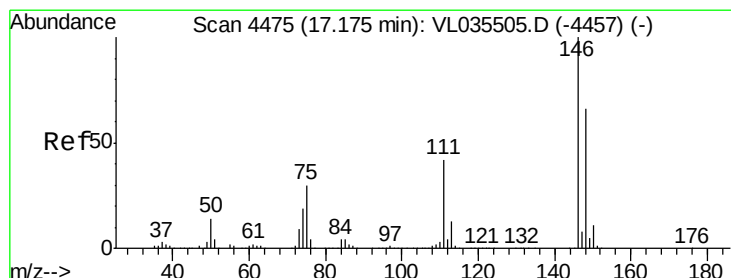
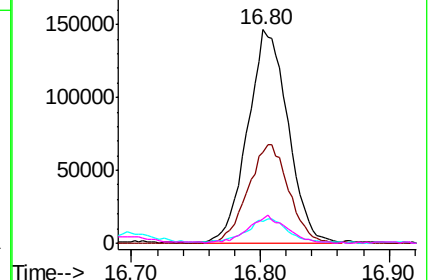
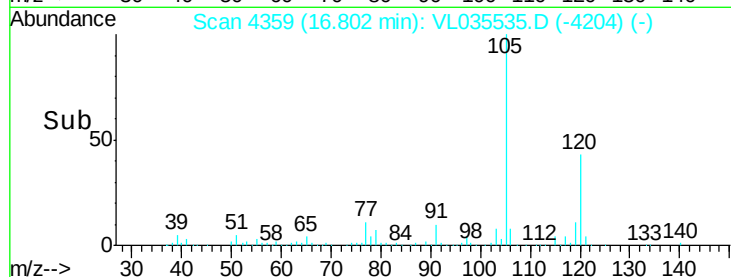


Abundance Ion 105.10 (104.80 to 105.80): V

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



#76

1,4-Dichlorobenzene

Concen: 0.143 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

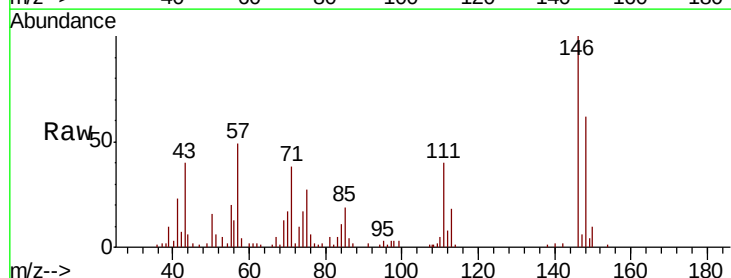
Tgt Ion:146 Resp: 51183

Ion Ratio Lower Upper

146 100

111 47.0 20.0 60.0

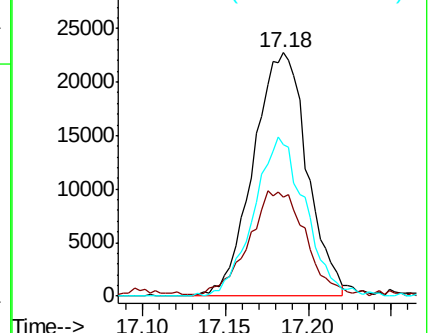
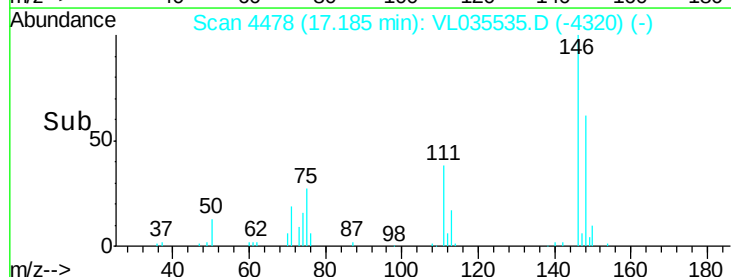
148 63.2 33.2 99.6

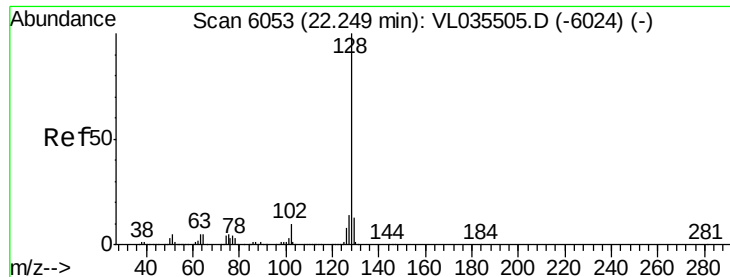


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 3.498 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

Instrument :

MSVOA\_L

ClientSampled :

IA-2

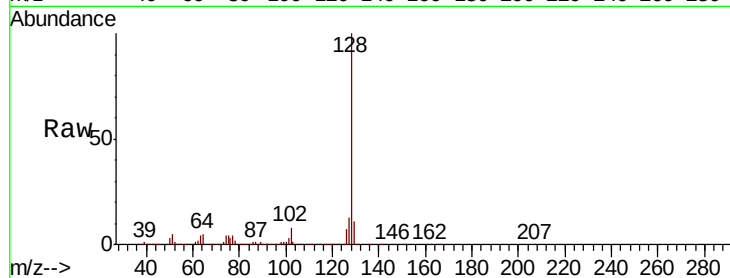
Tot Ion:128 Resp: 1900995

Ion Ratio Lower Upper

128 100

127 12.8 11.4 17.2

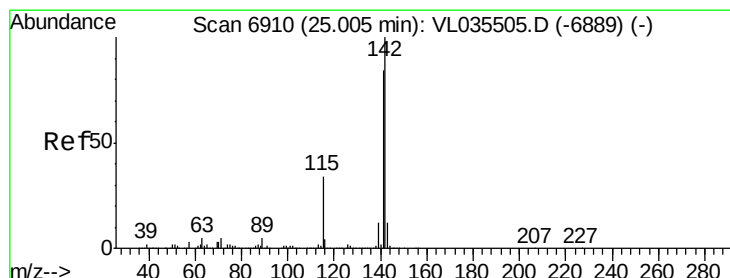
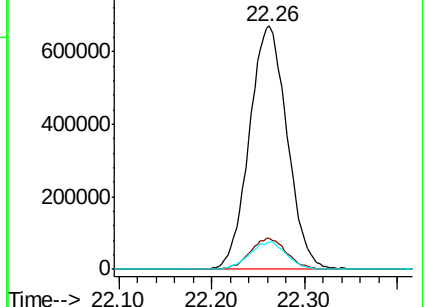
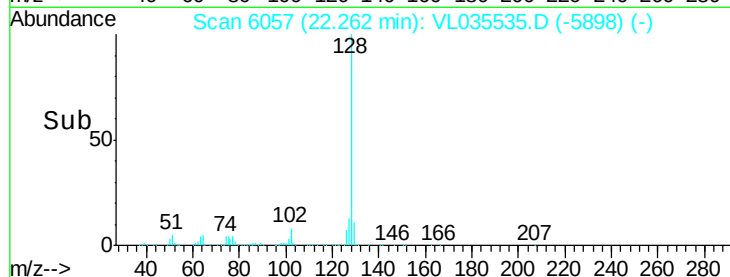
129 11.0 10.5 15.7



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



#80

Naphthalene, 2-methyl-

Concen: 0.889 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. 0.01 min

Lab File: VL035535.D

Acq: 3 Sep 2020 17:54

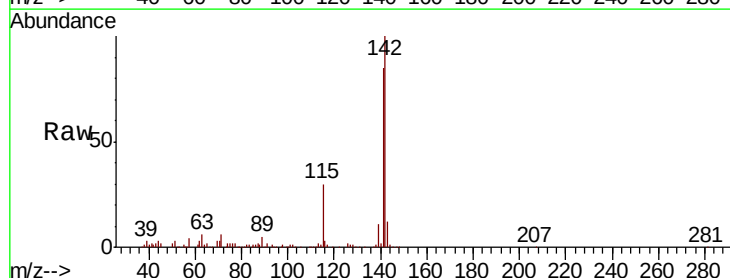
Tgt Ion:142 Resp: 164905

Ion Ratio Lower Upper

142 100

141 84.2 67.6 101.4

115 32.1 25.8 38.8



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

