

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\  
 Data File : VL036061.D  
 Acq On : 3 Dec 2020 21:49  
 Operator : SY/AP  
 Sample : VL1203ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Manual Integrations  
 APPROVED

SAM  
 12/7/2020 12:13:47 PM

Quant Time: Dec 04 05:36:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 04  
 QLast Update : Fri Dec 04 03:52:25 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1186998  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4220043  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 4321612m | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 3272114  | 9.95     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.50% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 1824670 | 8.931  | ppbv 98  |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 1349830 | 9.690  | ppbv 100 |
| 4) Chloromethane               | 3.13 | 50  | 683774  | 9.983  | ppbv 97  |
| 5) Vinyl Chloride              | 3.24 | 62  | 841056  | 9.671  | ppbv 98  |
| 6) Bromomethane                | 3.46 | 94  | 689968  | 10.215 | ppbv 99  |
| 7) Chloroethane                | 3.54 | 64  | 310783  | 9.980  | ppbv 100 |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 2379260 | 9.752  | ppbv 98  |
| 9) Propene                     | 3.00 | 41  | 490544  | 10.065 | ppbv 99  |
| 10) Heptane                    | 8.11 | 43  | 1527696 | 11.355 | ppbv 100 |
| 11) Trichlorofluoromethane     | 3.93 | 101 | 2815337 | 10.234 | ppbv 98  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 2118398 | 10.105 | ppbv 99  |
| 13) Ethanol                    | 3.59 | 45  | 77839   | 8.446  | ppbv 97  |
| 14) Bromoethene                | 3.73 | 108 | 893887  | 10.460 | ppbv 99  |
| 15) Acetone                    | 3.84 | 43  | 1147451 | 8.933  | ppbv 100 |
| 16) 1,3-Butadiene              | 3.31 | 39  | 554203  | 10.310 | ppbv 97  |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1318916 | 9.951  | ppbv 99  |
| 18) 1,1-Dichloroethene         | 4.28 | 96  | 956007  | 10.306 | ppbv 100 |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 608608  | 9.588  | ppbv 99  |
| 20) Methylene Chloride         | 4.33 | 84  | 805634  | 7.608  | ppbv 99  |
| 21) Allyl Chloride             | 4.40 | 41  | 687607  | 10.680 | ppbv 99  |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96  | 976665  | 10.490 | ppbv 98  |
| 23) Vinyl Acetate              | 5.06 | 43  | 1590921 | 11.229 | ppbv 99  |
| 24) 1,1-Dichloroethane         | 5.00 | 63  | 1636316 | 9.888  | ppbv 99  |
| 25) Ethyl Acetate              | 5.66 | 43  | 2529924 | 10.063 | ppbv 99  |
| 26) Hexane                     | 5.67 | 57  | 1326768 | 9.845  | ppbv 99  |
| 27) Carbon Disulfide           | 4.54 | 76  | 2142152 | 11.187 | ppbv 99  |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 2009352 | 10.092 | ppbv 100 |
| 29) Chloroform                 | 5.74 | 83  | 2540381 | 10.184 | ppbv 96  |
| 30) Cyclohexane                | 7.12 | 84  | 1349471 | 11.219 | ppbv 100 |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1340360 | 10.963 | ppbv 99  |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 2376723 | 10.407 | ppbv 100 |
| 34) 2-Butanone                 | 5.23 | 43  | 1540683 | 10.818 | ppbv 99  |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2411759 | 10.996 | ppbv 99  |
| 36) Benzene                    | 6.88 | 78  | 3146636 | 10.742 | ppbv 99  |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1570950 | 10.451 | ppbv 100 |
| 38) Trichloroethene            | 7.83 | 130 | 1481504 | 11.414 | ppbv 98  |
| 39) 1,2-Dichloropropane        | 7.60 | 63  | 1134507 | 10.317 | ppbv 99  |
| 40) 1,4-Dioxane                | 7.82 | 88  | 416128  | 11.336 | ppbv # 1 |
| 41) Tetrahydrofuran            | 6.04 | 42  | 861640  | 11.446 | ppbv 99  |
| 42) Bromodichloromethane       | 7.78 | 83  | 2633016 | 11.194 | ppbv 98  |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1318521 | 12.276 | ppbv 100 |

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 Sample : VL1203ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Manual Integrations  
 APPROVED

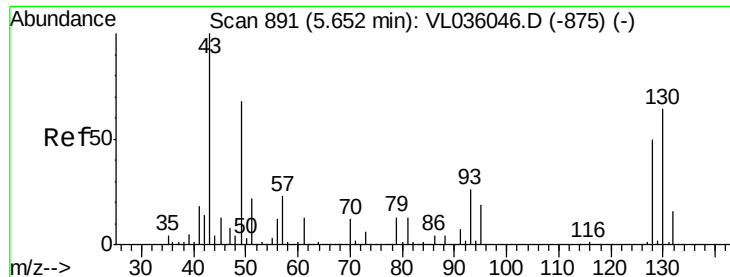
SAM  
 12/7/2020 12:13:47 PM

Quant Time: Dec 04 05:36:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 04 05:36:24 2020  
 QLast Update : Fri Dec 04 03:52:25 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4596999  | 10.668 | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 1329275  | 13.236 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1711886  | 12.926 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1483070  | 10.621 | ppbv  | 99       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2356300  | 12.167 | ppbv  | 100      |
| 49) Bromoform                 | 13.03 | 173  | 1836759  | 12.807 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2533955  | 11.375 | ppbv  | 100      |
| 51) 2-Hexanone                | 10.12 | 43   | 1988767  | 12.398 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 1278273  | 11.346 | ppbv  | 98       |
| 53) Toluene                   | 9.80  | 91   | 3851695  | 12.031 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2173605  | 11.076 | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1837831  | 10.413 | ppbv  | 97       |
| 57) Chlorobenzene             | 12.14 | 112  | 3123523  | 9.820  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.71 | 91   | 4938926  | 11.409 | ppbv  | 98       |
| 59) m/p-Xylene                | 12.99 | 91   | 8539918m | 21.730 | ppbv  |          |
| 60) o-Xylene                  | 13.69 | 91   | 4201675  | 10.633 | ppbv  | 100      |
| 61) Styrene                   | 13.52 | 104  | 2862188  | 12.676 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 6080571  | 10.354 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 3010519  | 9.267  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 1726825  | 11.111 | ppbv  | 100      |
| 65) tert-Butylbenzene         | 16.74 | 119  | 5283000  | 10.716 | ppbv  | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 1459764  | 12.390 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 7137446  | 10.555 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 5696934  | 11.241 | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 5637725  | 11.150 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 4488984  | 11.042 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 4710897  | 11.528 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4319902  | 11.243 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 4537404  | 10.606 | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2616162  | 10.211 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 2522968  | 10.422 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2409586  | 10.192 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 1316837  | 10.098 | ppbv  | 99       |
| 79) Naphthalene               | 22.20 | 128  | 2729339  | 13.364 | ppbv  | 99       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 727974   | 17.023 | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 1609444  | 11.655 | ppbv  | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 49 Resp: 1186998

Ion Ratio Lower Upper

49 100

128 76.7 38.3 114.8

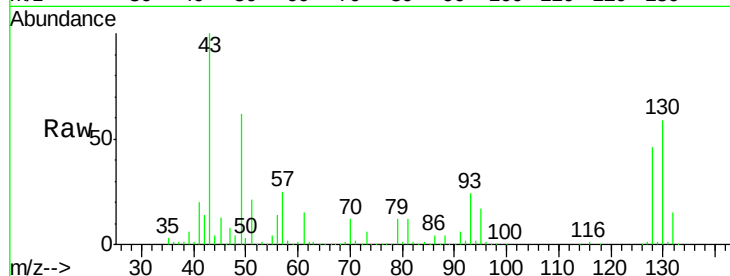
130 98.6 49.1 147.4

Manual Integrations

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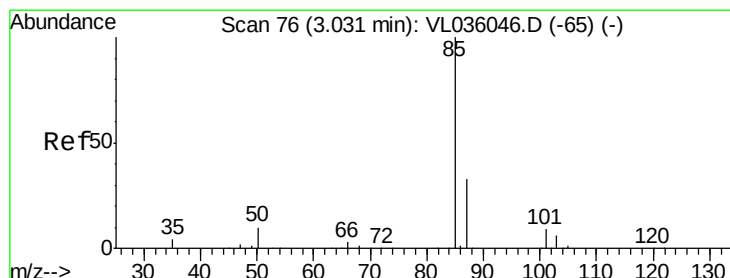
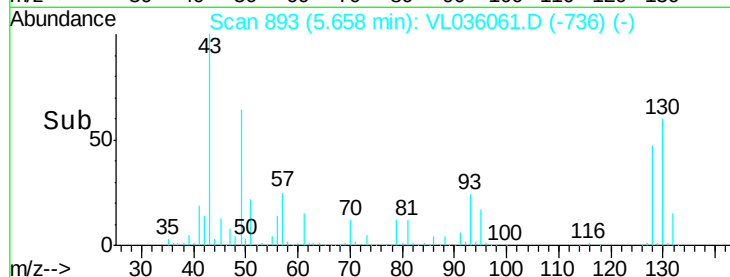
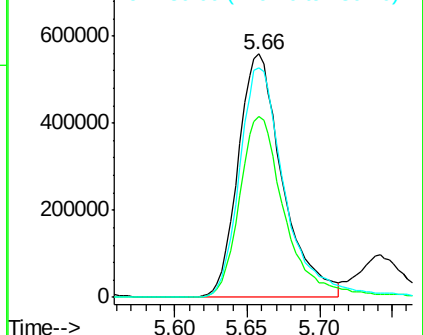
12/7/2020 12:13:47 PM



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: 8.931 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL036061.D

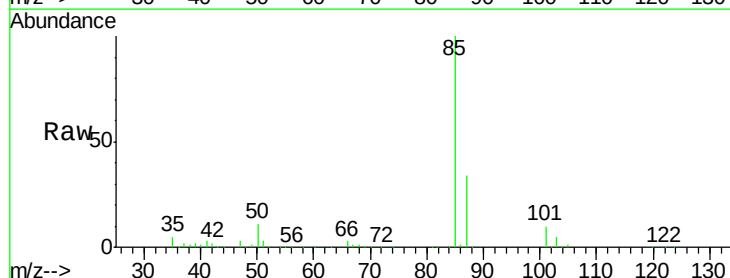
Acq: 3 Dec 2020 21:49

Tgt Ion: 85 Resp: 1824670

Ion Ratio Lower Upper

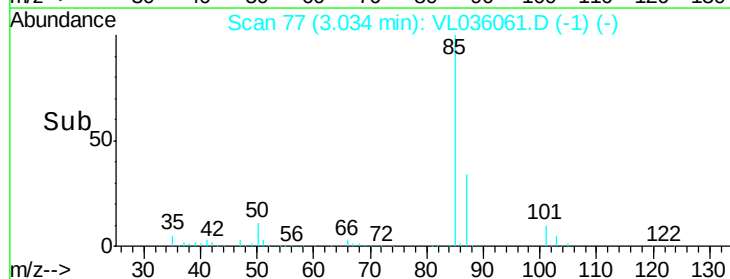
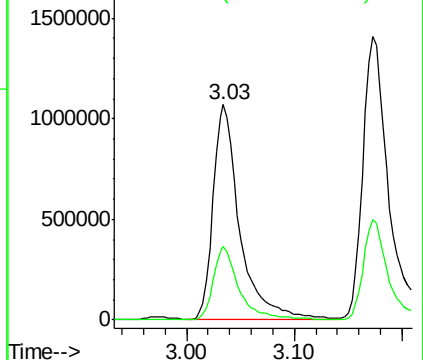
85 100

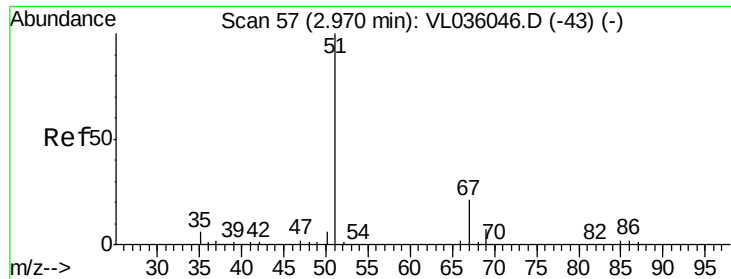
87 34.4 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.690 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tot Ion: 51 Resp: 1349830

Ion Ratio Lower Upper

51 100

67 21.2 16.9 25.3

Instrument :

MSVOA\_L

ClientSampleId :

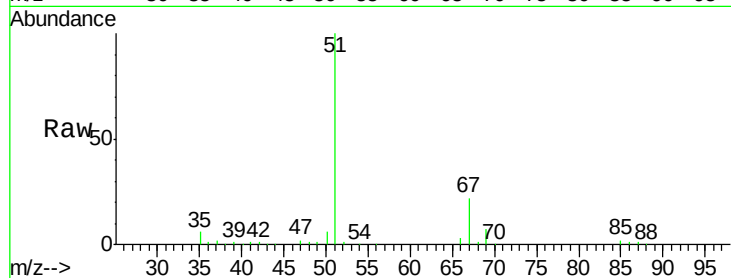
VL1203ABS01

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

800000

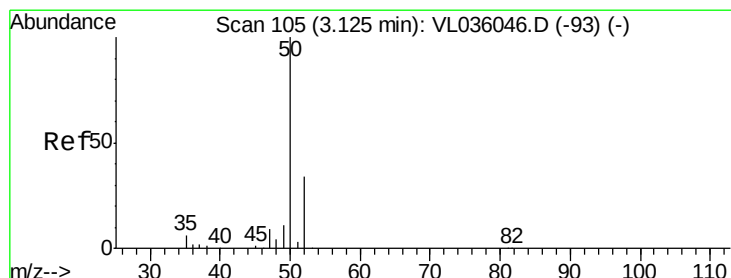
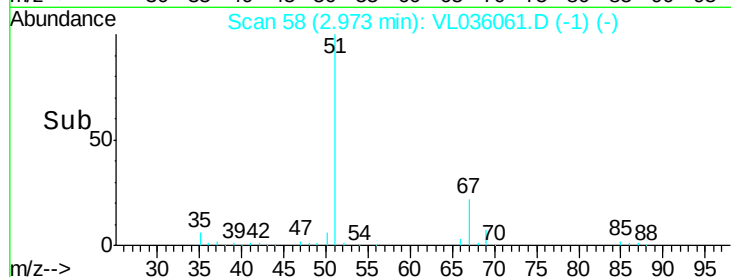
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.983 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL036061.D

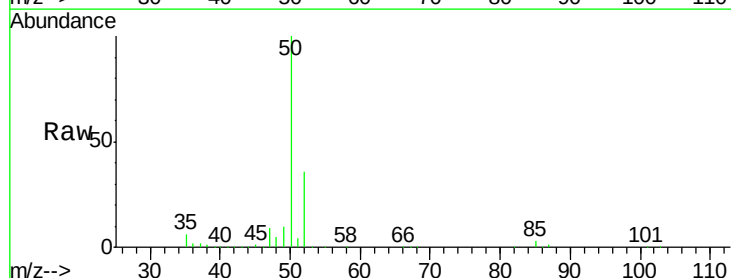
Acq: 3 Dec 2020 21:49

Tgt Ion: 50 Resp: 683774

Ion Ratio Lower Upper

50 100

52 36.2 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

400000

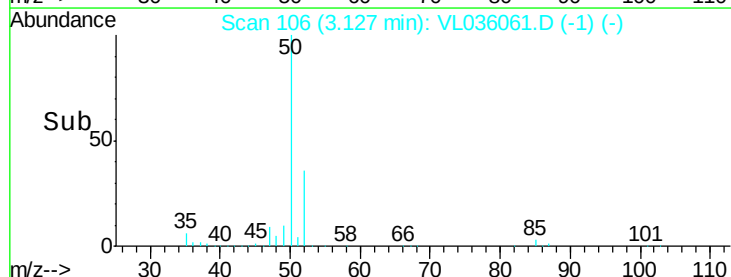
300000

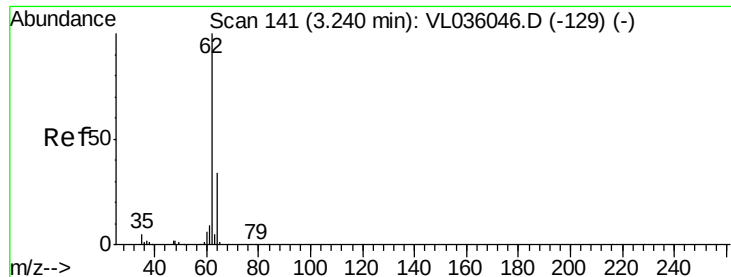
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 9.671 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 62 Resp: 841056

Ion Ratio Lower Upper

62 100

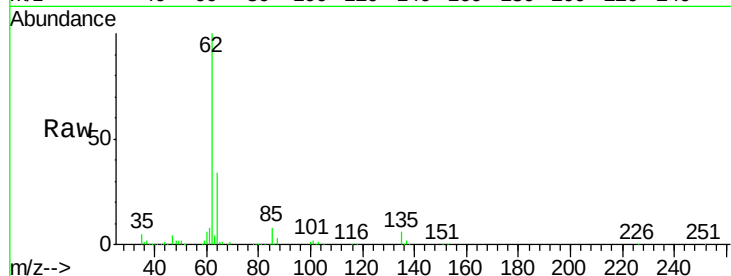
64 34.5 26.8 40.2

Manual Integrations

APPROVED

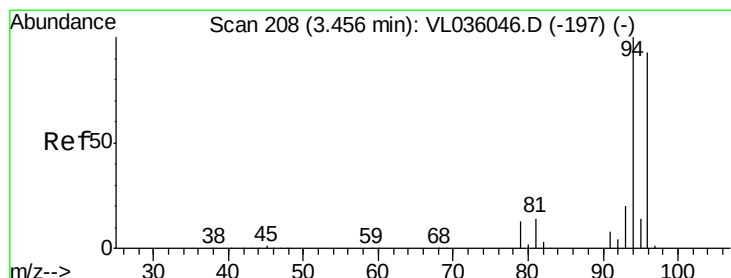
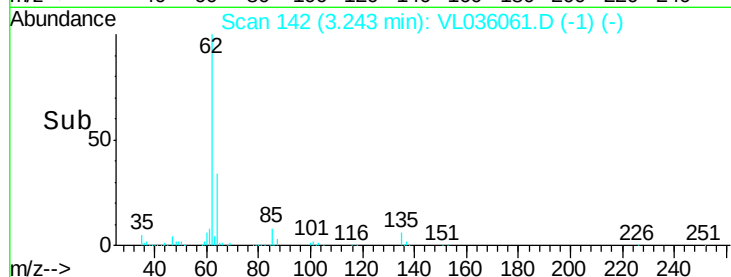
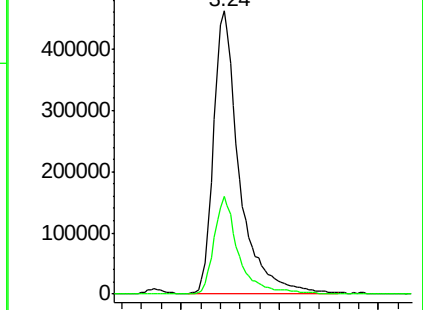
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12/7/2020 12:13:47 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.215 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL036061.D

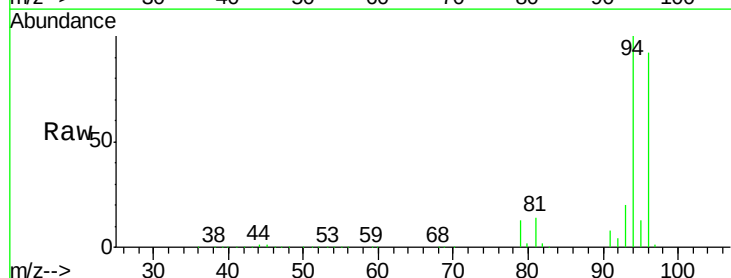
Acq: 3 Dec 2020 21:49

Tgt Ion: 94 Resp: 689968

Ion Ratio Lower Upper

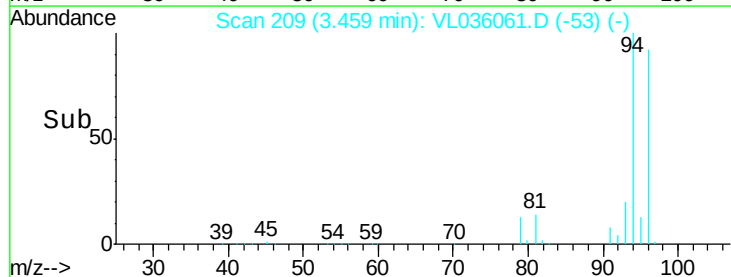
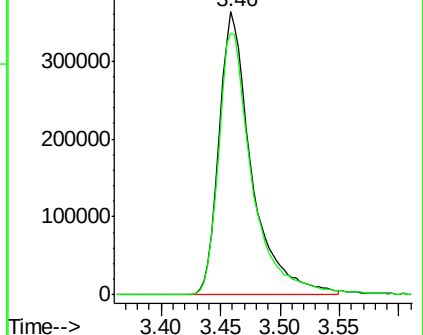
94 100

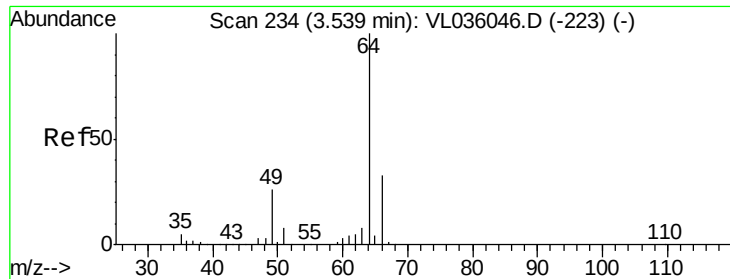
96 92.4 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.980 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 64 Resp: 310783

Ion Ratio Lower Upper

64 100

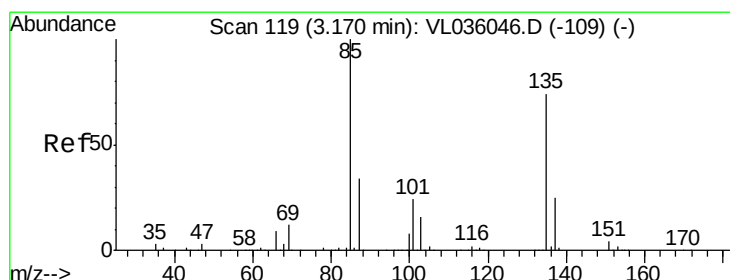
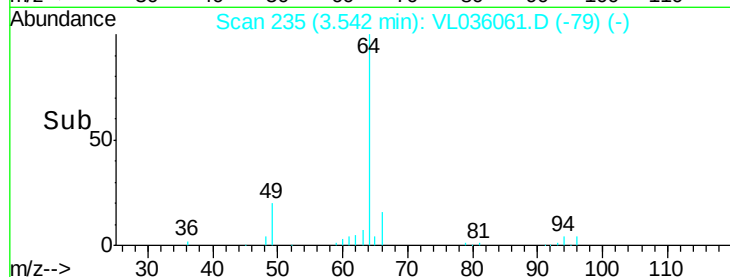
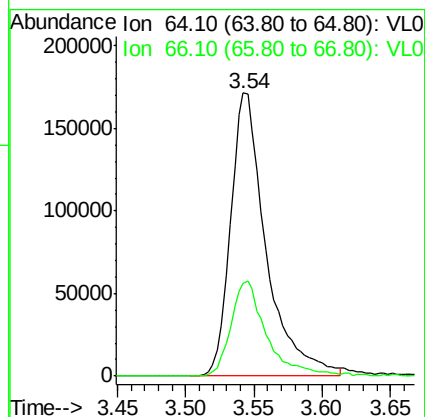
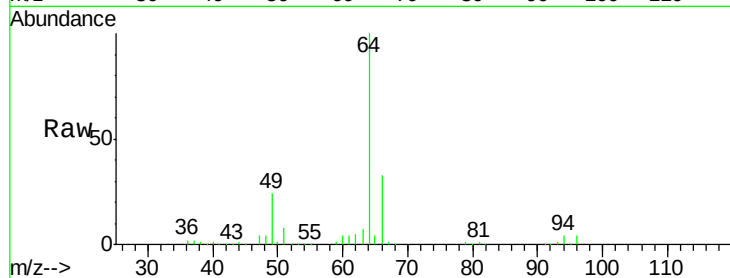
66 32.7 26.1 39.1

Manual Integrations

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12/7/2020 12:13:47 PM



#8

Dichlorotetrafluoroethane

Concen: 9.752 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036061.D

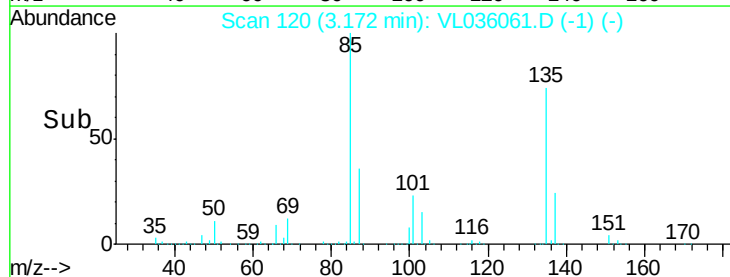
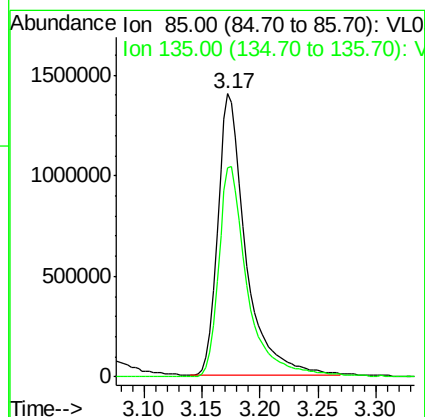
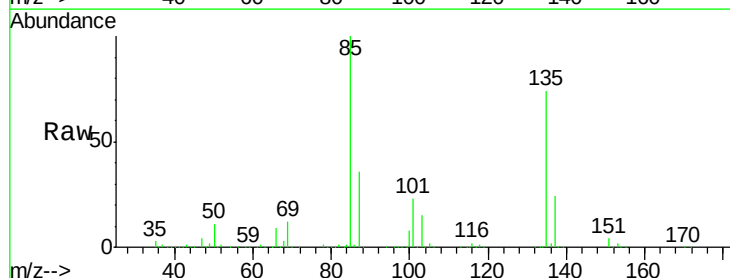
Acq: 3 Dec 2020 21:49

Tgt Ion: 85 Resp: 2379260

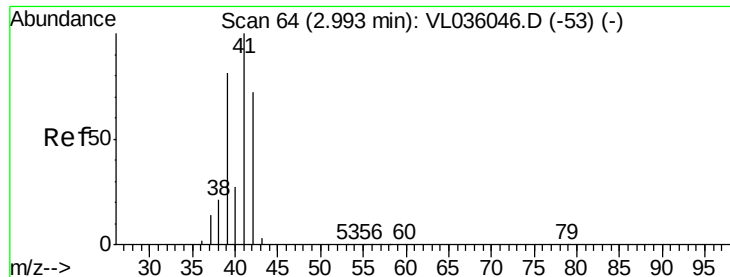
Ion Ratio Lower Upper

85 100

135 77.0 60.2 90.2







#9

Propene

Concen: 10.065 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 41 Resp: 490544

Ion Ratio Lower Upper

41 100

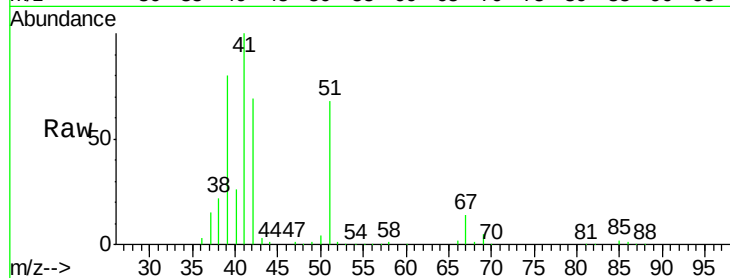
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Manual Integrations

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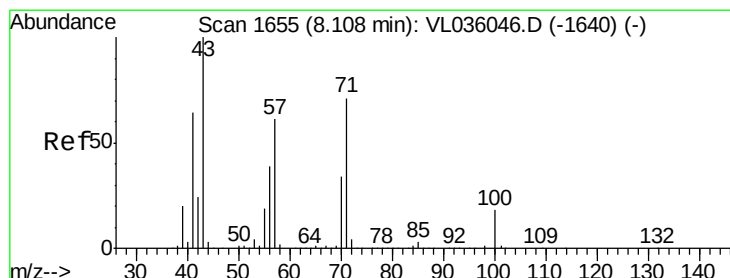
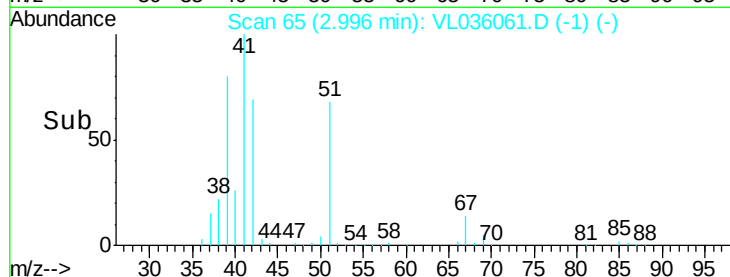
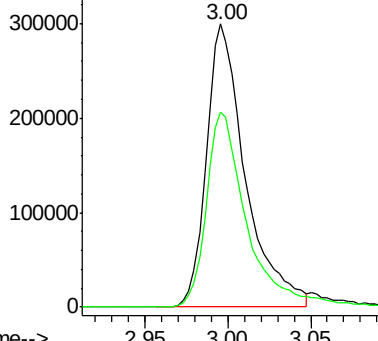
SAM

12/7/2020 12:13:47 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.355 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.01 min

Lab File: VL036061.D

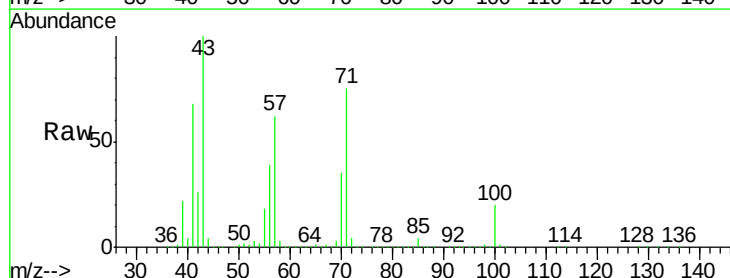
Acq: 3 Dec 2020 21:49

Tgt Ion: 43 Resp: 1527696

Ion Ratio Lower Upper

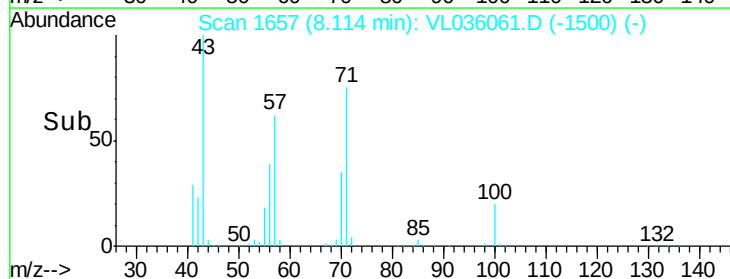
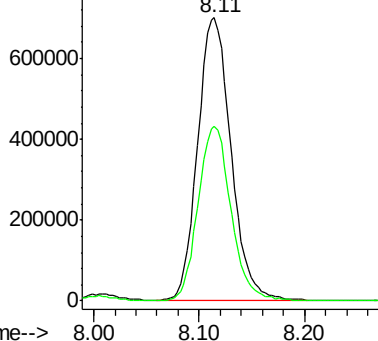
43 100

57 61.5 49.2 73.8

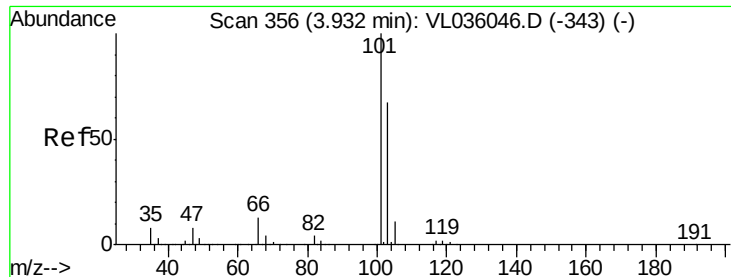


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0







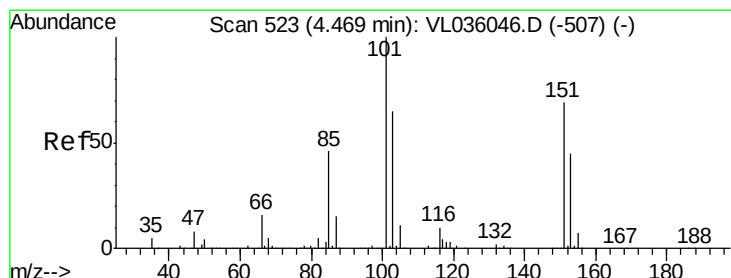
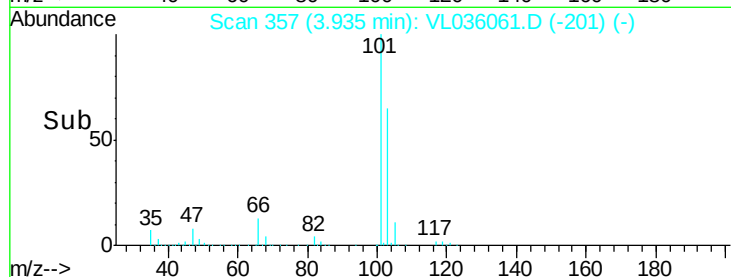
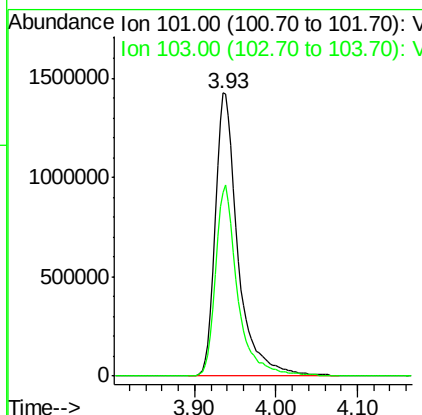
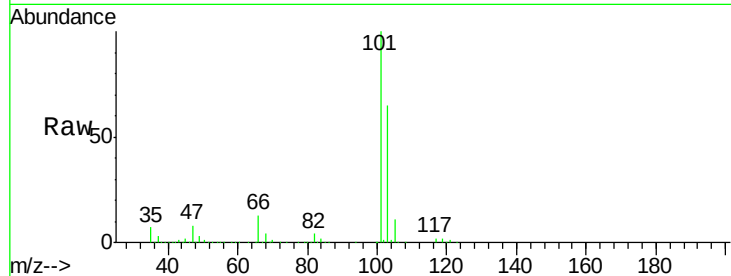
#11  
 Trichlorofluoromethane  
 Concen: 10.234 ppbv  
 RT: 3.93 min Scan# 357  
 Delta R.T. 0.00 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion:101 Resp: 2815337  
 Ion Ratio Lower Upper  
 101 100  
 103 65.0 53.2 79.8

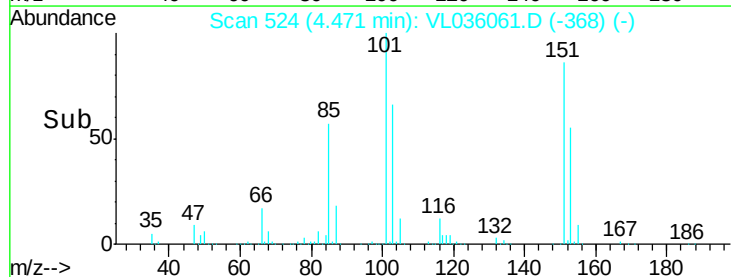
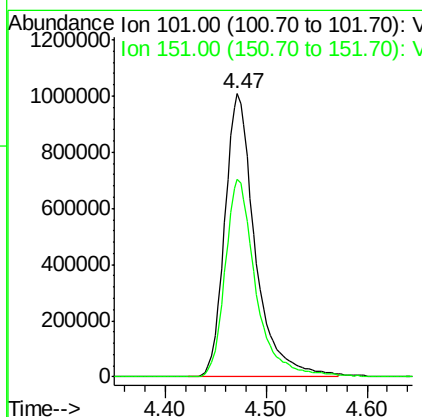
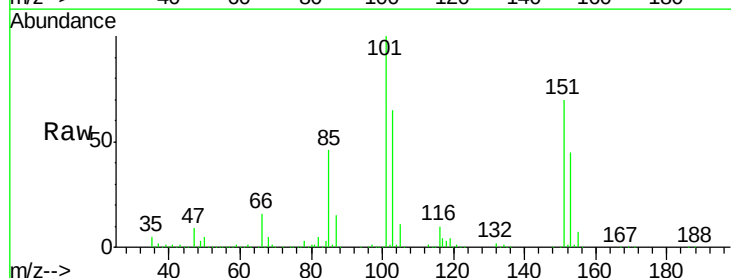
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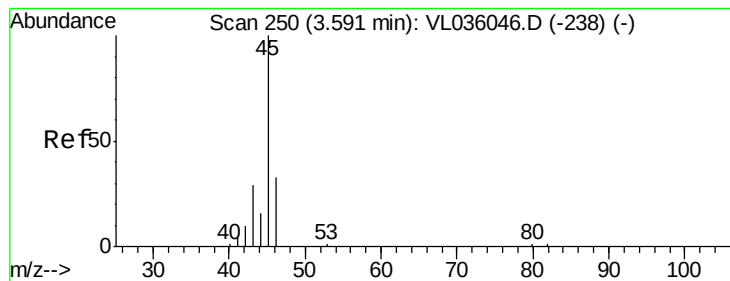
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.105 ppbv  
 RT: 4.47 min Scan# 524  
 Delta R.T. 0.00 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion:101 Resp: 2118398  
 Ion Ratio Lower Upper  
 101 100  
 151 70.8 56.1 84.1





#13

Ethanol

Concen: 8.446 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 45 Resp: 77839

Ion Ratio Lower Upper

45 100

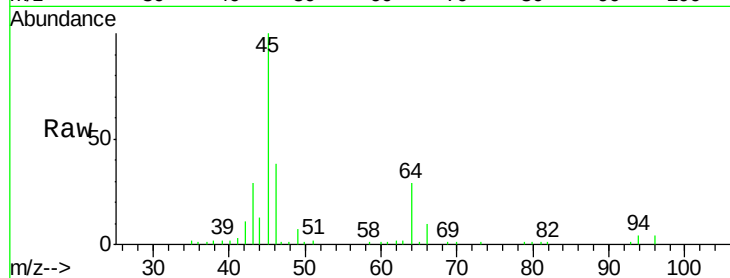
46 42.2 16.0 64.2

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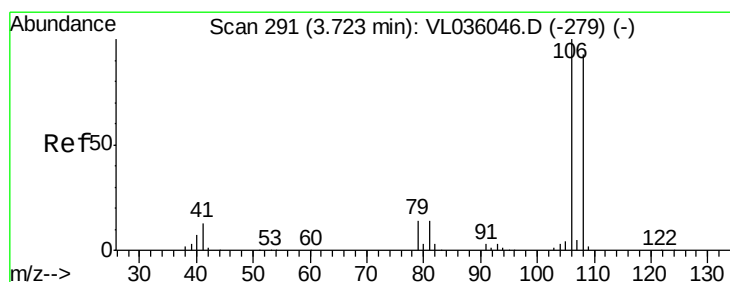
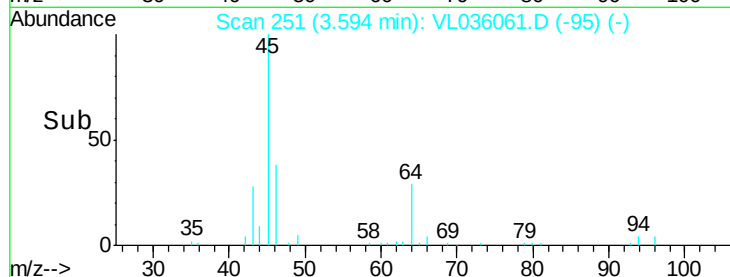
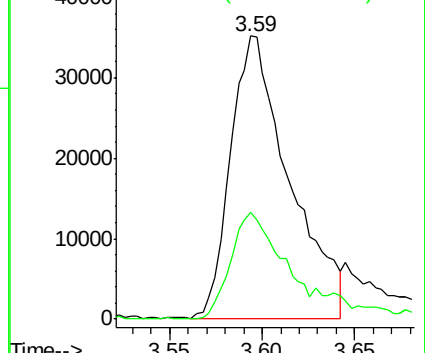
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.460 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

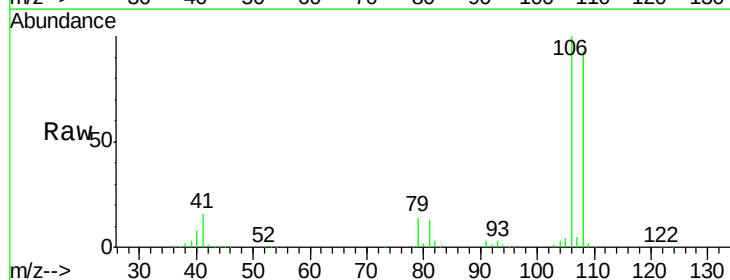
Tgt Ion: 108 Resp: 893887

Ion Ratio Lower Upper

108 100

106 106.7 85.0 127.4

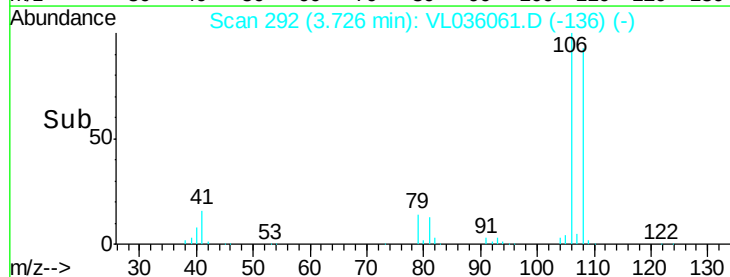
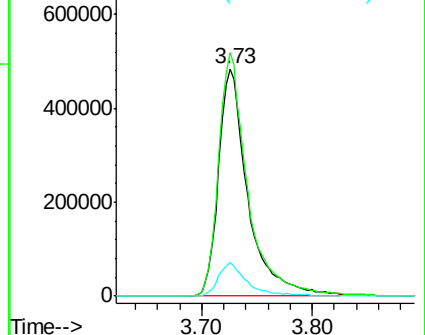
79 14.7 11.9 17.9

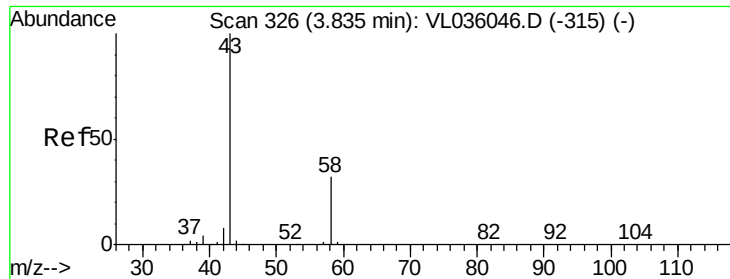


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 8.933 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 43 Resp: 1147451

Ion Ratio Lower Upper

43 100

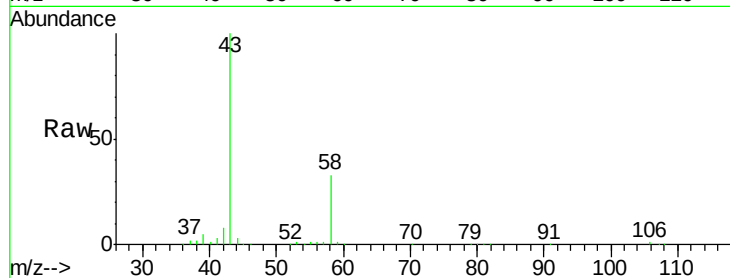
58 33.6 27.0 40.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

400000

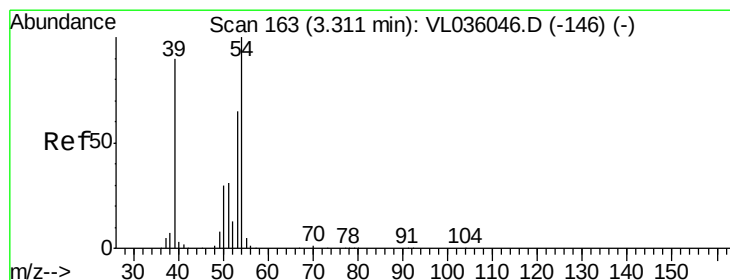
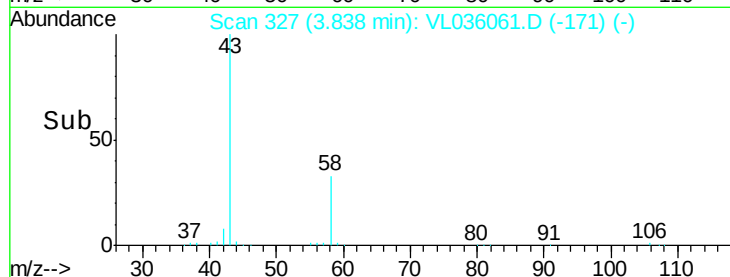
200000

0

3.84

3.75 3.80 3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.310 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.00 min

Lab File: VL036061.D

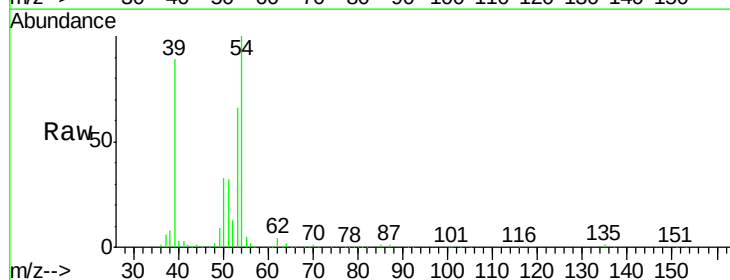
Acq: 3 Dec 2020 21:49

Tgt Ion: 39 Resp: 554203

Ion Ratio Lower Upper

39 100

54 104.1 86.1 129.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

200000

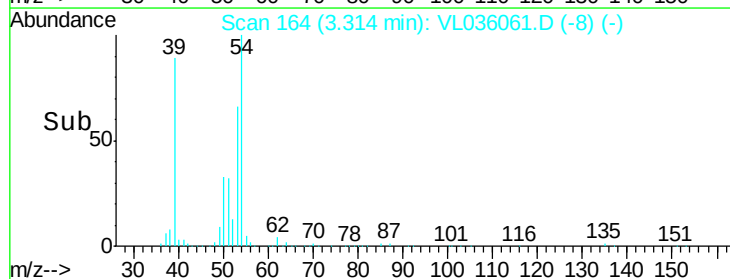
100000

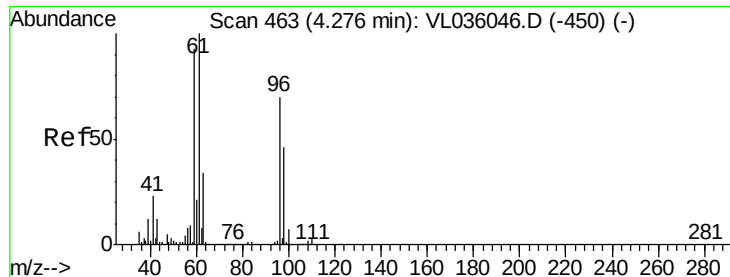
0

3.31

3.20 3.30 3.40

Time-->





#17

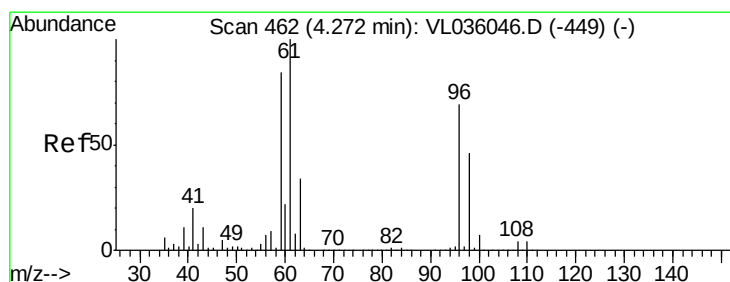
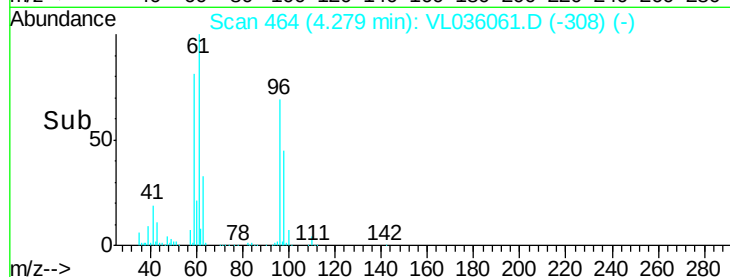
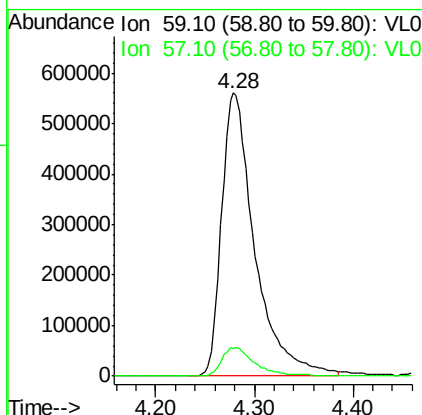
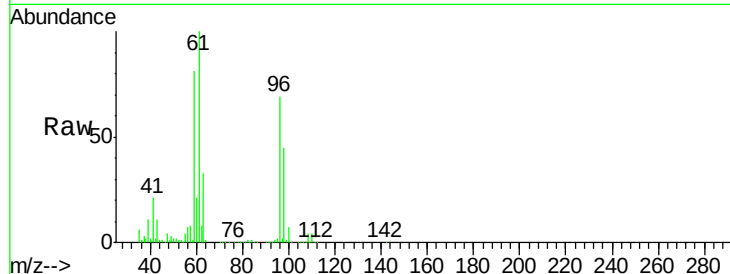
tert-Butyl alcohol  
Concen: 9.951 ppbv  
RT: 4.28 min Scan# 464  
Delta R.T. 0.00 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion: 59 Resp: 1318916  
Ion Ratio Lower Upper  
59 100  
57 10.2 8.4 12.6

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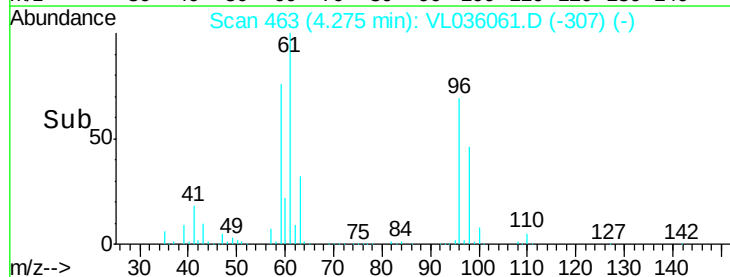
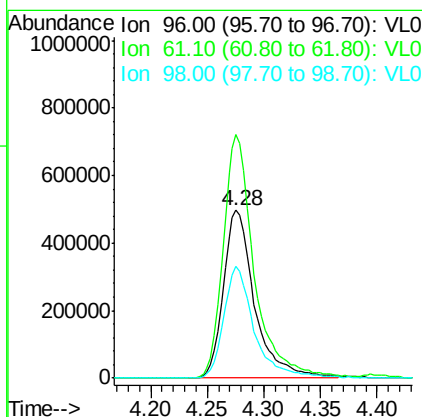
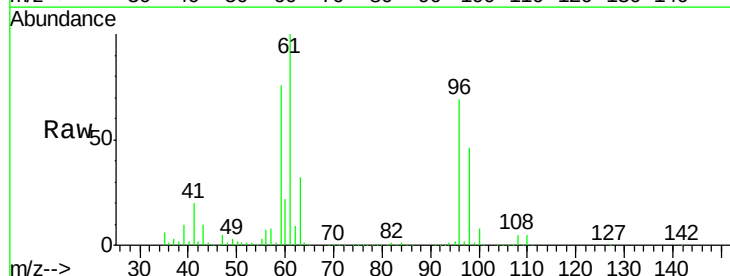
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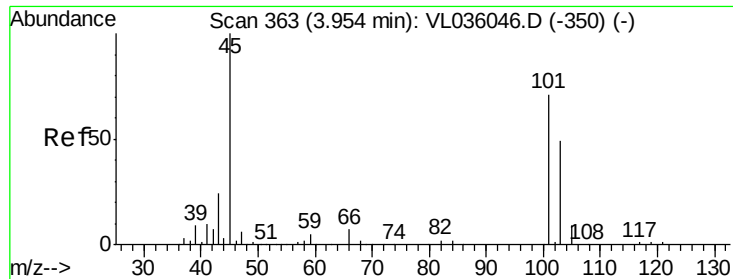


#18

1,1-Dichloroethene  
Concen: 10.306 ppbv  
RT: 4.28 min Scan# 463  
Delta R.T. 0.00 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion: 96 Resp: 956007  
Ion Ratio Lower Upper  
96 100  
61 145.3 115.8 173.6  
98 66.4 53.1 79.7





#19

Isopropyl Alcohol

Concen: 9.588 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 45 Resp: 608608

Ion Ratio Lower Upper

45 100

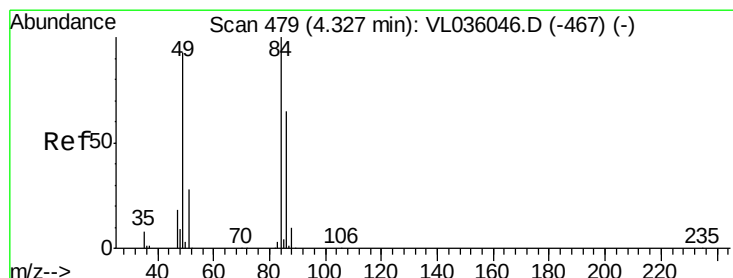
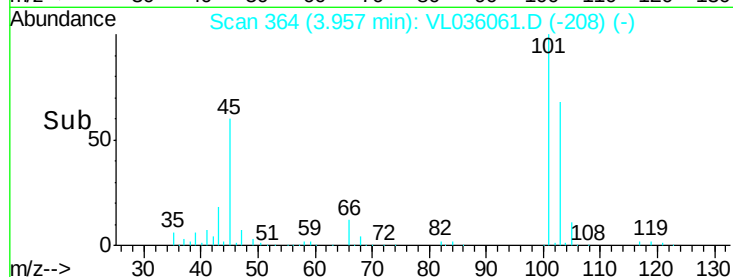
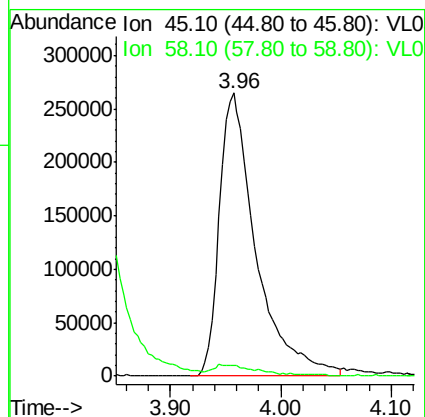
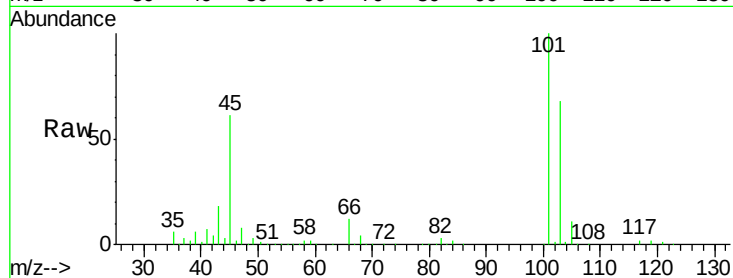
58 4.4 3.4 5.0

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12/7/2020 12:13:47 PM



#20

Methylene Chloride

Concen: 7.608 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion: 84 Resp: 805634

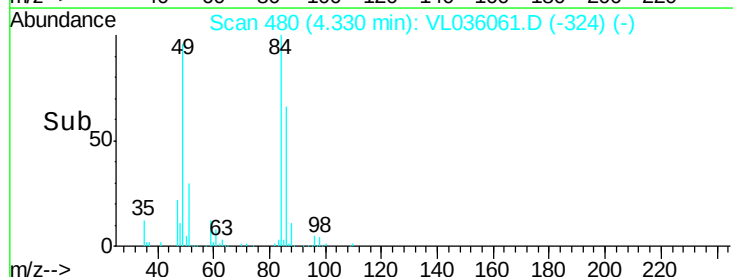
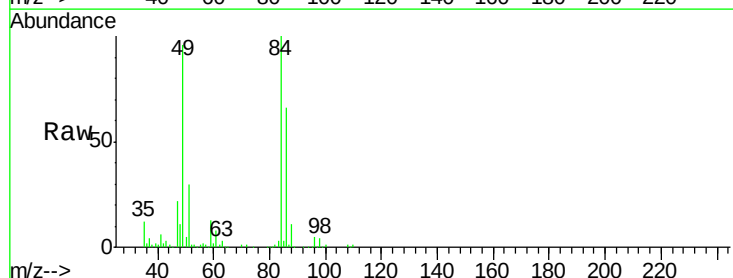
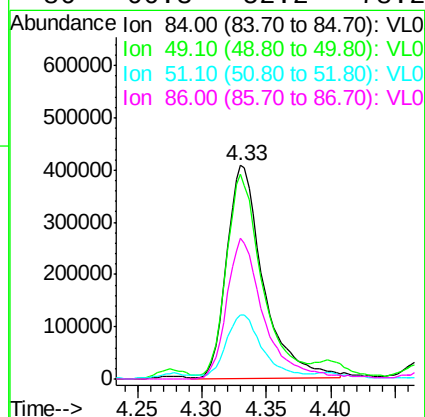
Ion Ratio Lower Upper

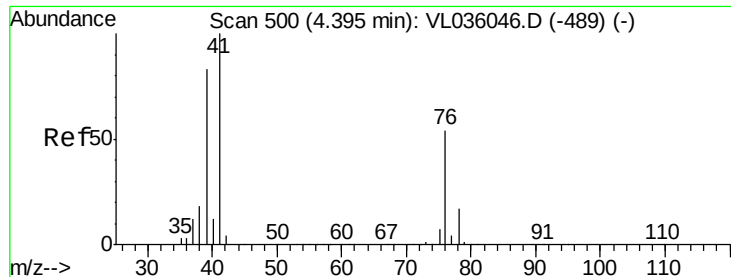
84 100

49 94.3 74.4 111.6

51 28.5 22.5 33.7

86 66.3 52.2 78.2





#21

Allvl Chloride

Concen: 10.680 ppbv

RT: 4.40 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

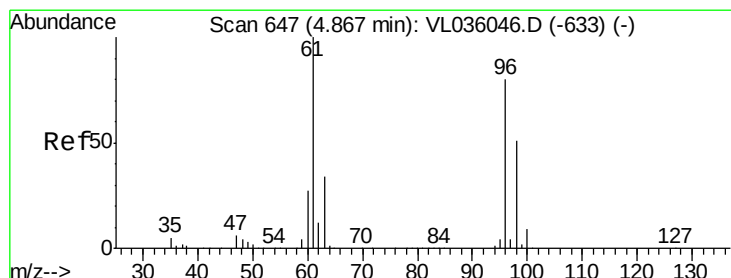
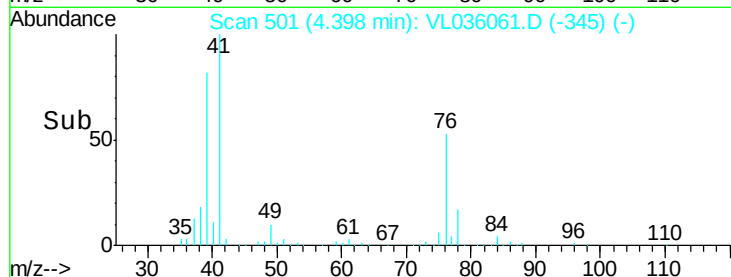
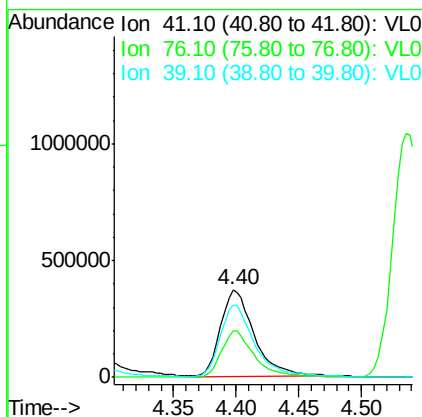
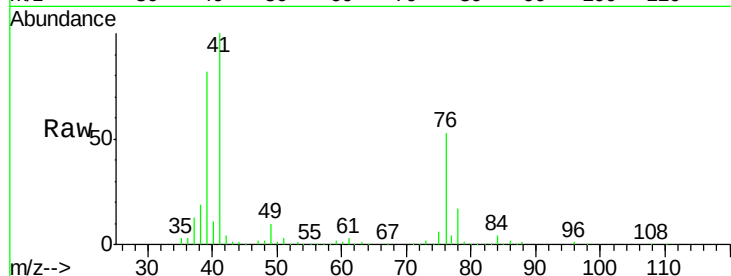
ClientSampleId :

VL1203ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 41    | Resp: | 687607 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 76        | 53.5  | 42.4  | 63.6   |
| 39        | 85.7  | 69.0  | 103.6  |

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#22

trans-1,2-Dichloroethene

Concen: 10.490 ppbv

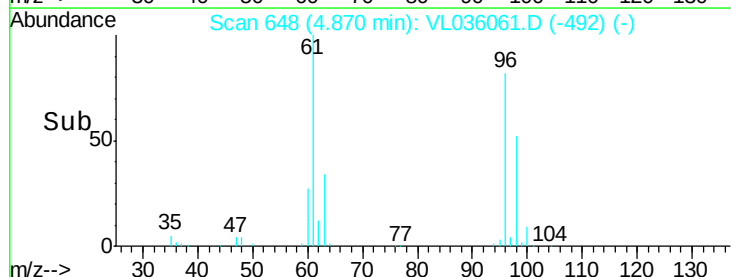
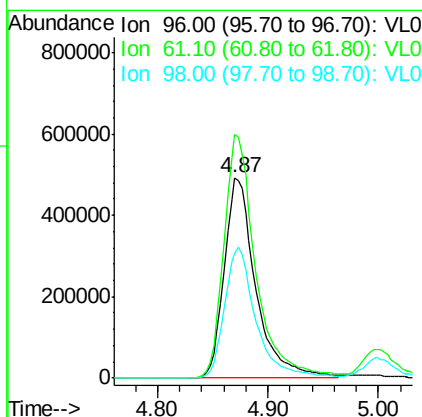
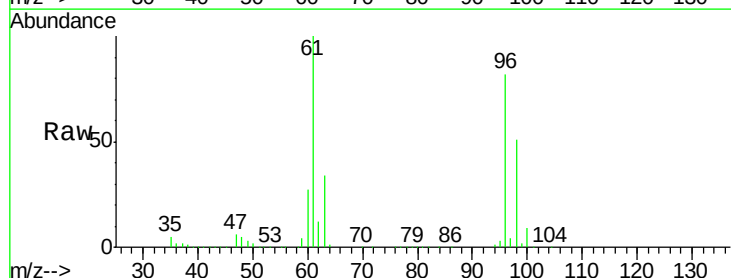
RT: 4.87 min Scan# 648

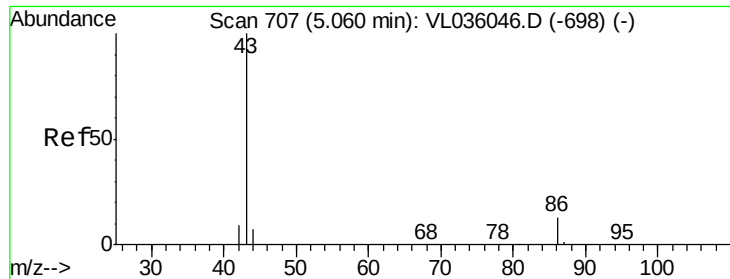
Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 976665 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 121.7 | 99.8  | 149.6  |
| 98        | 62.6  | 51.1  | 76.7   |





#23

Vinyl Acetate

Concen: 11.229 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 43 Resp: 1590921

Ion Ratio Lower Upper

43 100

86 11.2 9.3 13.9

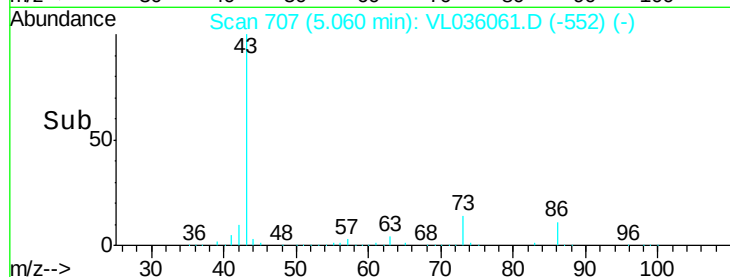
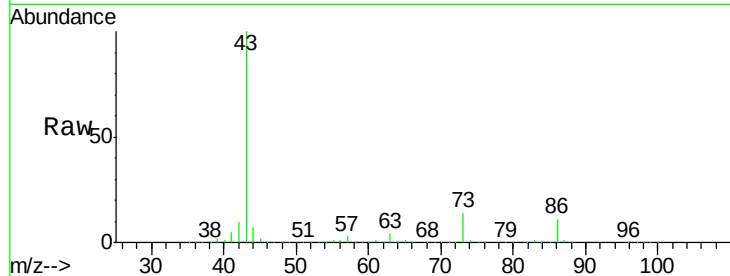
42 9.6 8.1 12.1

44 6.3 4.7 7.1

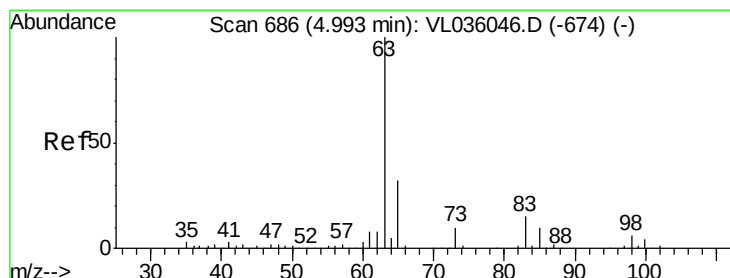
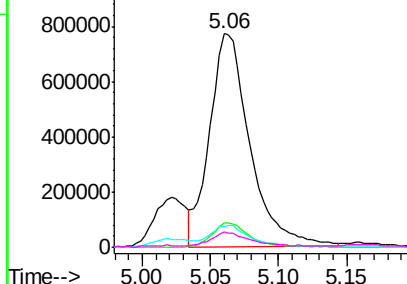
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Abundance Ion 43.10 (42.80 to 43.80): VL0  
1200000  
Ion 86.10 (85.80 to 86.80): VL0  
1000000  
Ion 42.10 (41.80 to 42.80): VL0  
800000  
Ion 44.10 (43.80 to 44.80): VL0  
600000  
400000  
200000  
0



#24

1,1-Dichloroethane

Concen: 9.888 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

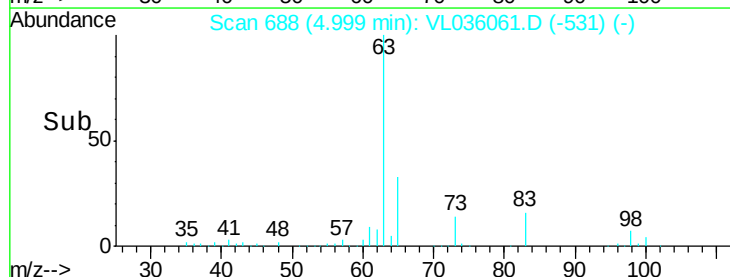
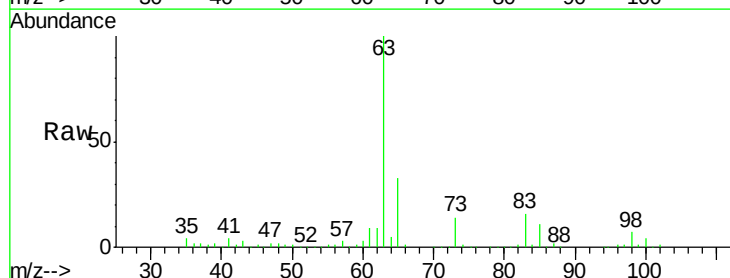
Tgt Ion: 63 Resp: 1636316

Ion Ratio Lower Upper

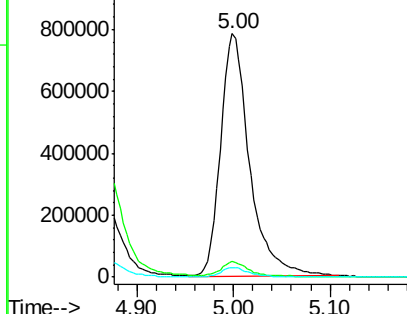
63 100

98 6.5 3.1 9.3

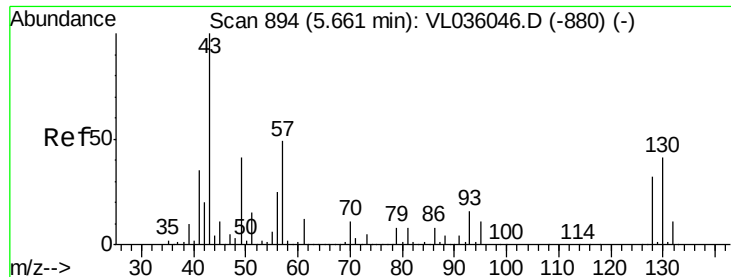
100 3.9 1.9 5.7



Abundance Ion 63.10 (62.80 to 63.80): VL0  
1000000  
Ion 98.00 (97.70 to 98.70): VL0  
800000  
Ion 100.00 (99.70 to 100.70): VL0  
600000  
400000  
200000  
0







#25

Ethyl Acetate

Concen: 10.063 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 43 Resp: 2529924

Ion Ratio Lower Upper

43 100

45 10.8 8.6 13.0

61 12.8 10.6 16.0

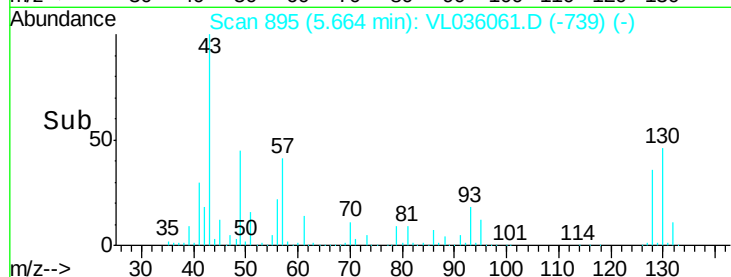
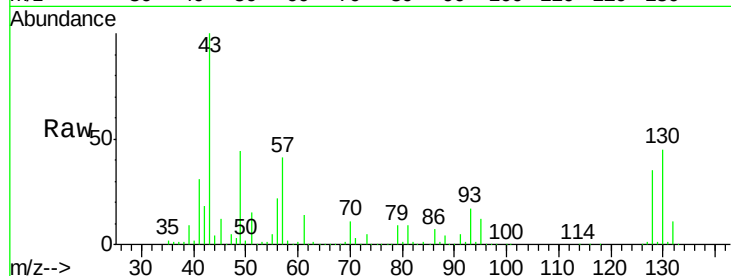
70 9.9 8.1 12.1

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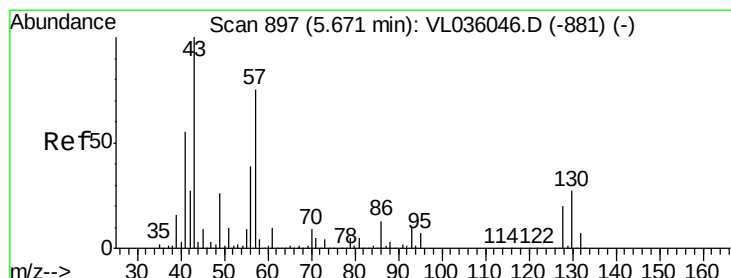
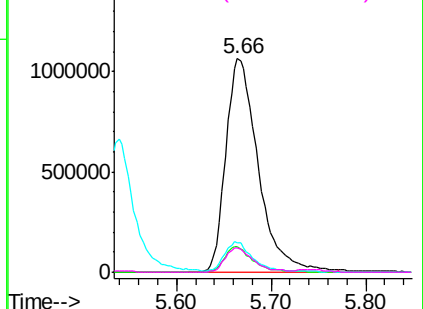


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.845 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion: 57 Resp: 1326768

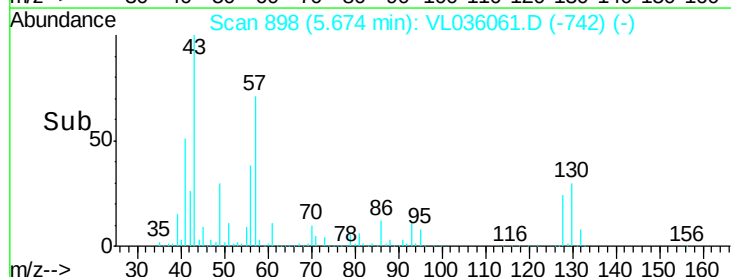
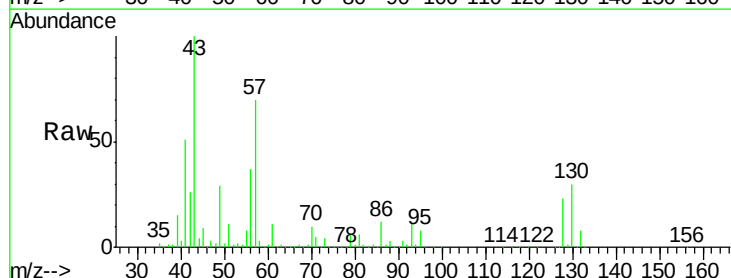
Ion Ratio Lower Upper

57 100

41 76.3 61.6 92.4

43 192.1 152.9 229.3

56 54.5 43.0 64.6

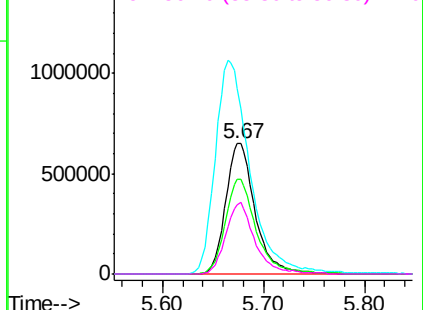


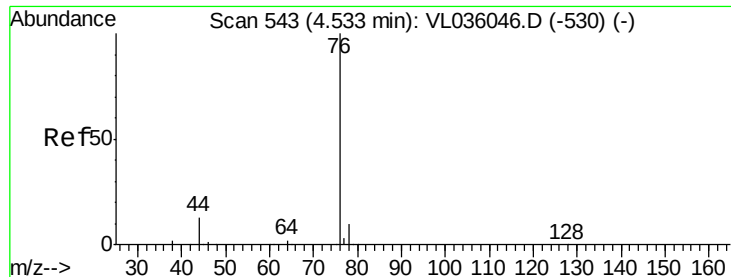
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.187 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

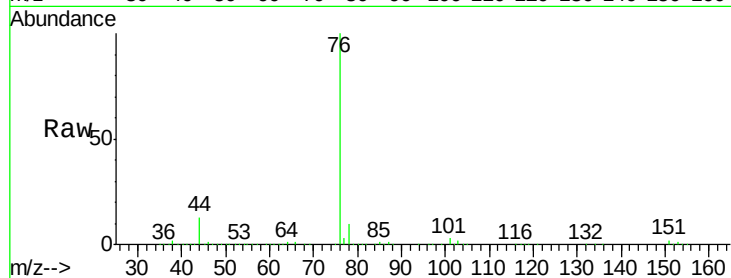
VL1203ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 76    | Resp: | 2142152 |
| Ion      | Ratio | Lower | Upper   |
| 76       | 100   |       |         |
| 44       | 12.1  | 9.6   | 14.4    |
| 78       | 10.1  | 7.7   | 11.5    |

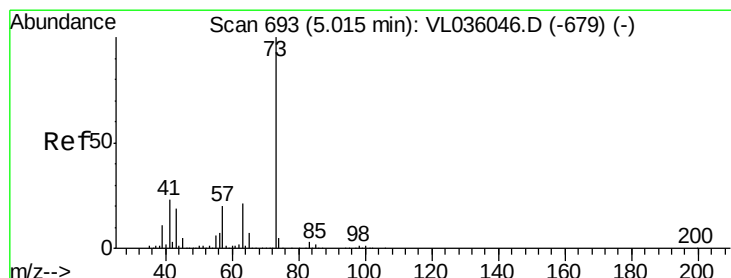
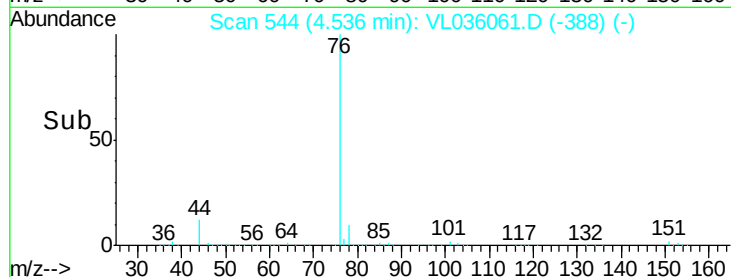
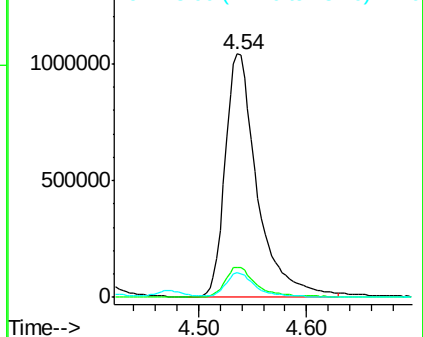
Manual Integrations  
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Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.092 ppbv

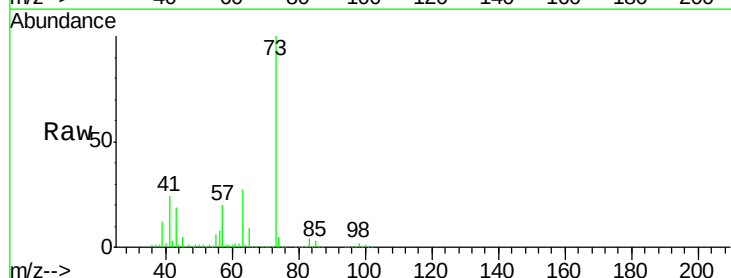
RT: 5.02 min Scan# 695

Delta R.T. 0.01 min

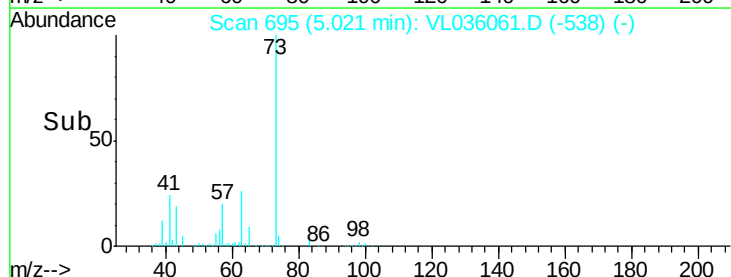
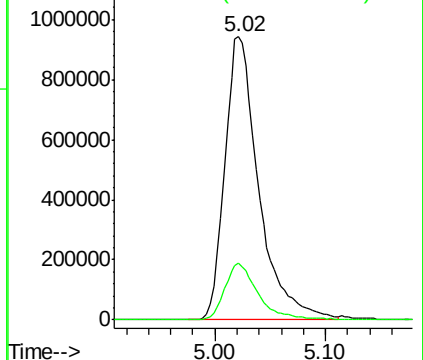
Lab File: VL036061.D

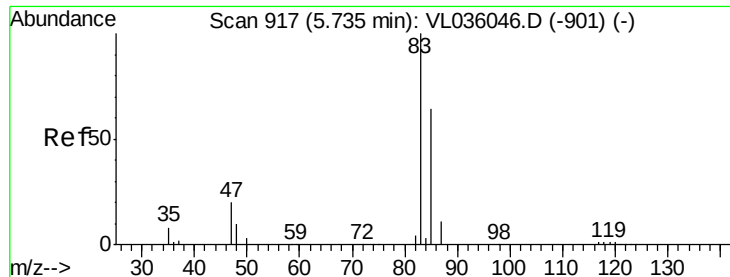
Acq: 3 Dec 2020 21:49

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 73    | Resp: | 2009352 |
| Ion      | Ratio | Lower | Upper   |
| 73       | 100   |       |         |
| 57       | 19.8  | 15.8  | 23.8    |



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





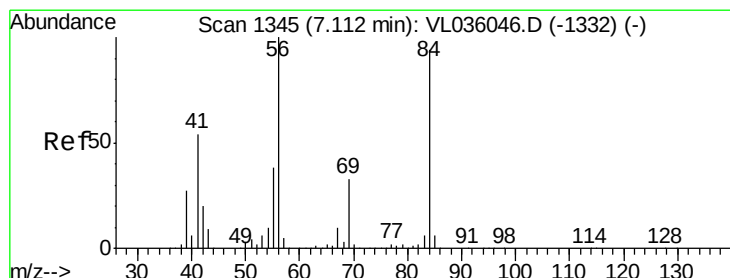
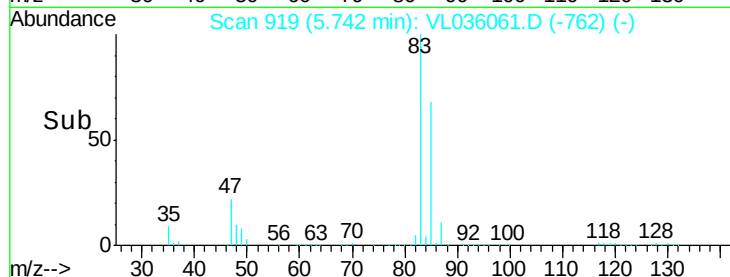
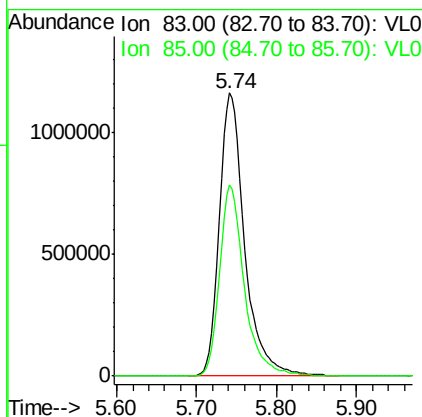
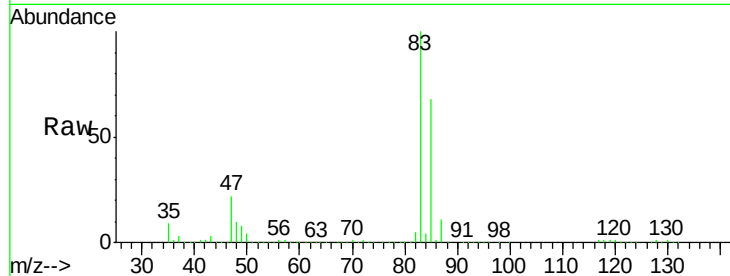
#29  
Chloroform  
Concen: 10.184 ppbv  
RT: 5.74 min Scan# 919  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion: 83 Resp: 2540381  
Ion Ratio Lower Upper  
83 100  
85 67.7 51.6 77.4

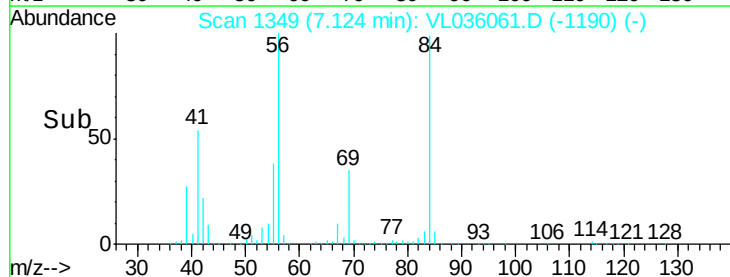
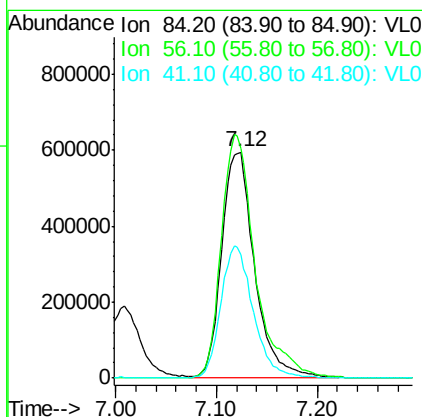
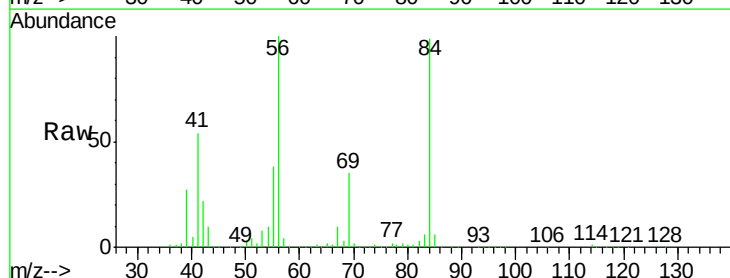
Manual Integrations  
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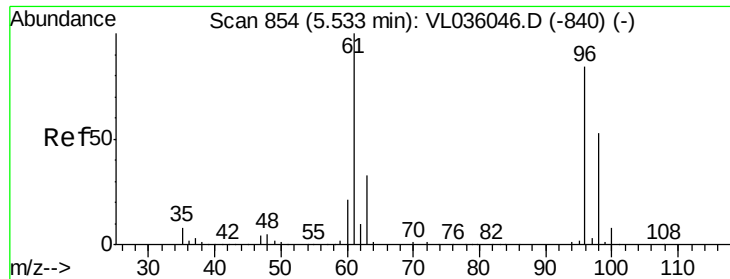
SAM  
12/7/2020 12:13:47 PM



#30  
Cyclohexane  
Concen: 11.219 ppbv  
RT: 7.12 min Scan# 1349  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion: 84 Resp: 1349471  
Ion Ratio Lower Upper  
84 100  
56 112.3 89.9 134.9  
41 58.0 46.1 69.1





#31

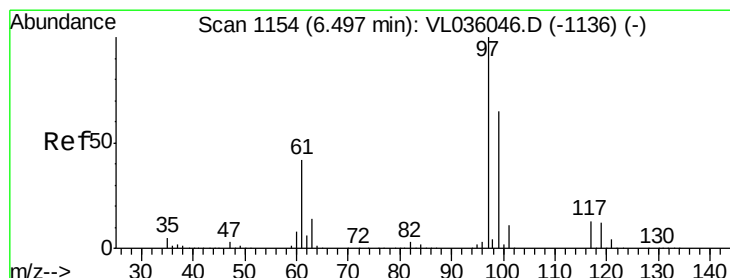
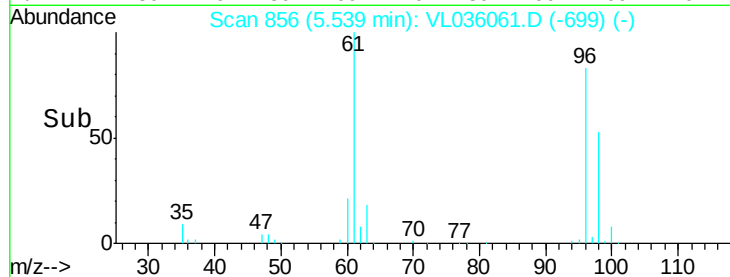
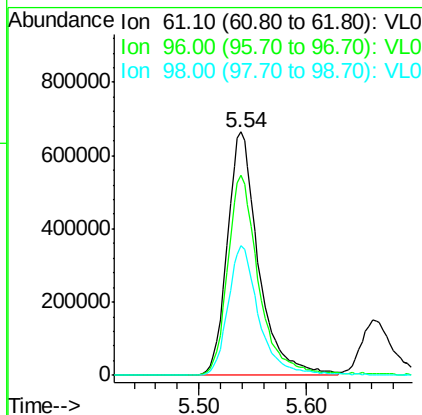
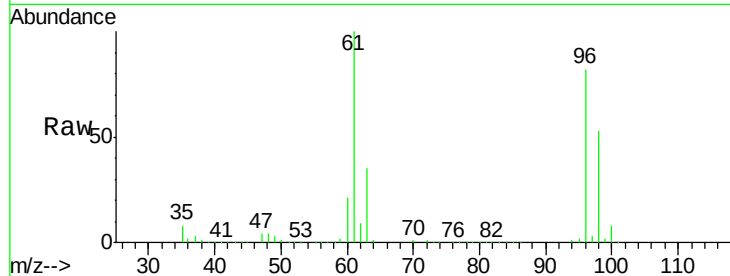
cis-1,2-Dichloroethene  
 Concen: 10.963 ppbv  
 RT: 5.54 min Scan# 856  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 82.1  | 66.8  | 100.2 |
| 98      | 53.5  | 42.6  | 63.8  |

Manual Integrations  
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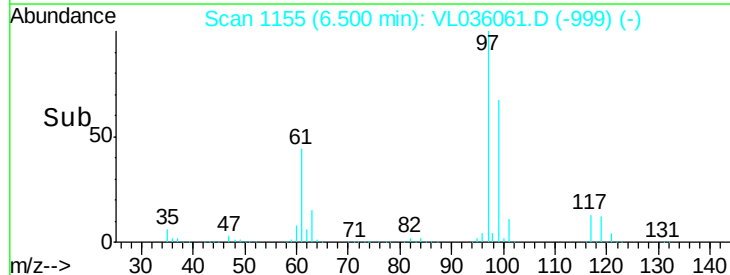
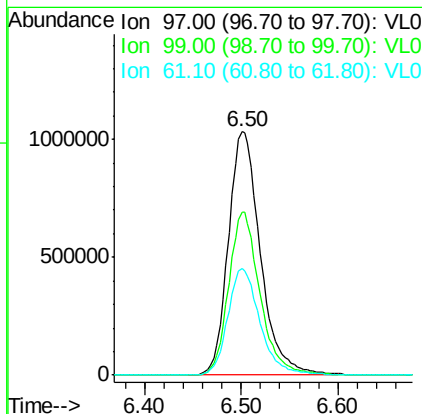
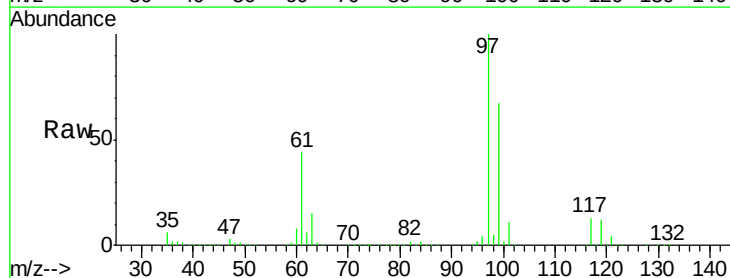
SAM  
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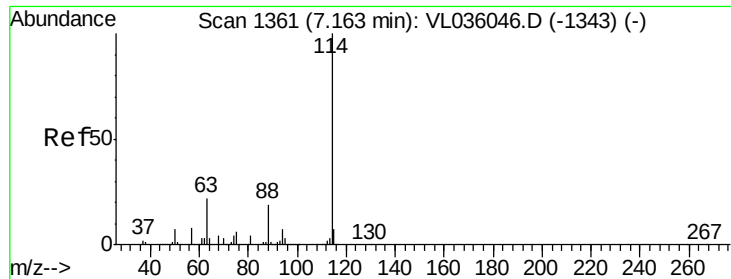


#32

1,1,1-Trichloroethane  
 Concen: 10.407 ppbv  
 RT: 6.50 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.6  | 52.4  | 78.6  |
| 61      | 44.0  | 34.7  | 52.1  |





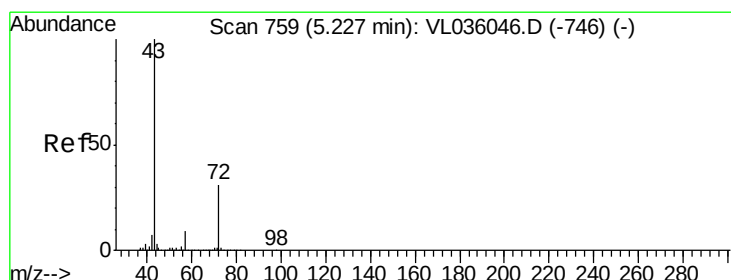
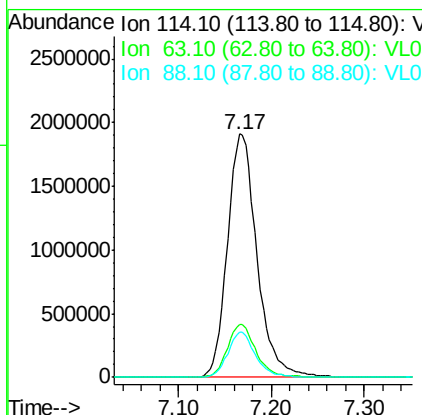
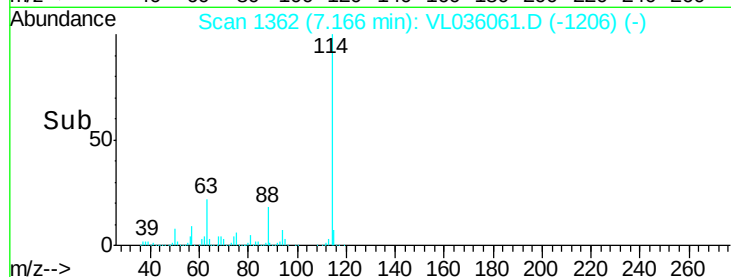
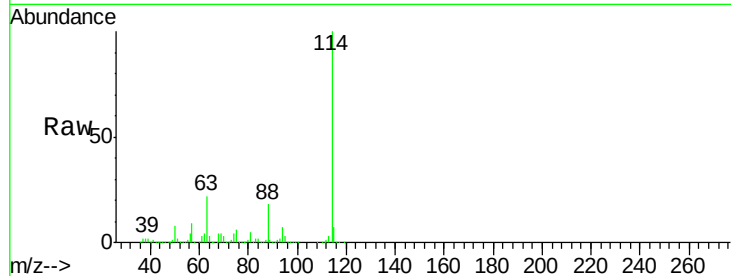
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 17.2  | 25.8  |
| 88      | 17.5  | 14.0  | 21.0  |

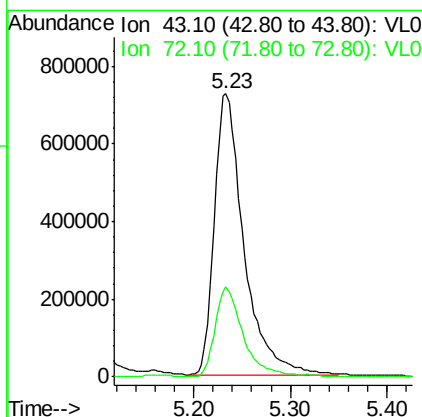
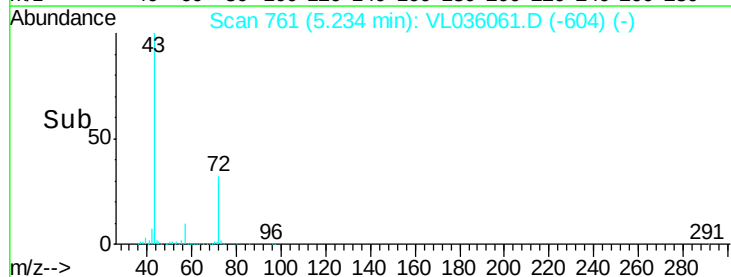
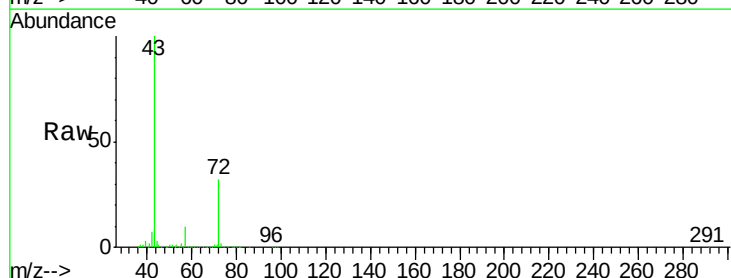
Manual Integrations  
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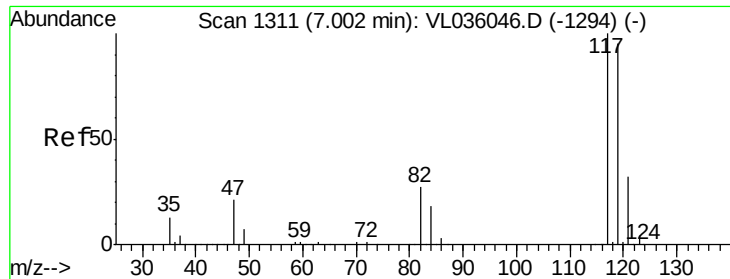
SAM  
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#34  
 2-Butanone  
 Concen: 10.818 ppbv  
 RT: 5.23 min Scan# 761  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 31.1  | 24.5  | 36.7  |





#35

Carbon Tetrachloride

Concen: 10.996 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:117 Resp: 2411759

Ion Ratio Lower Upper

117 100

119 96.0 75.9 113.9

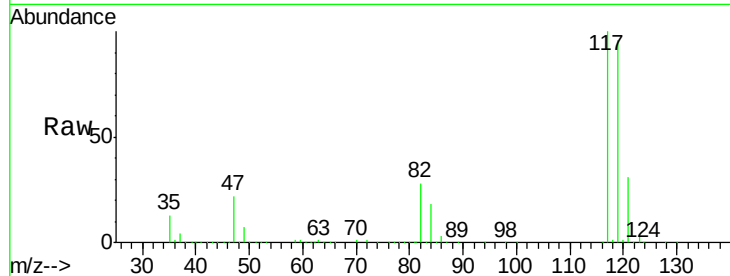
121 30.9 25.8 38.8

Manual Integrations

APPROVED

SAM

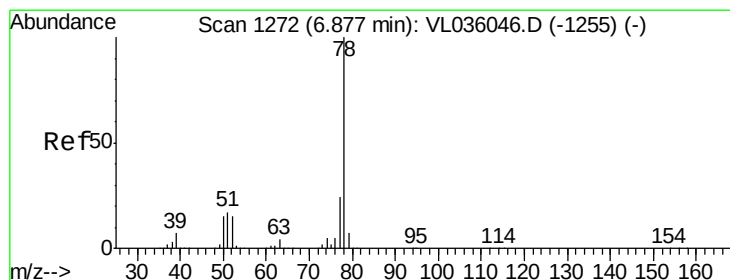
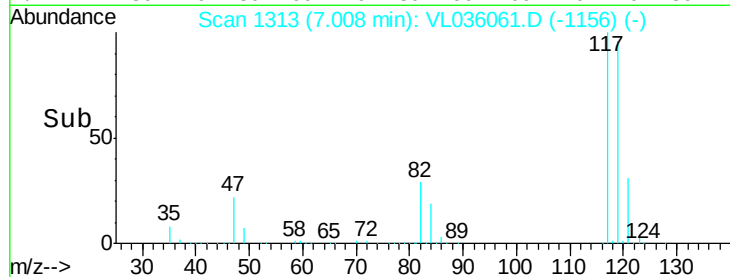
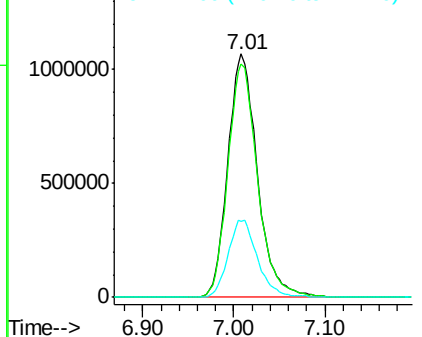
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.742 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

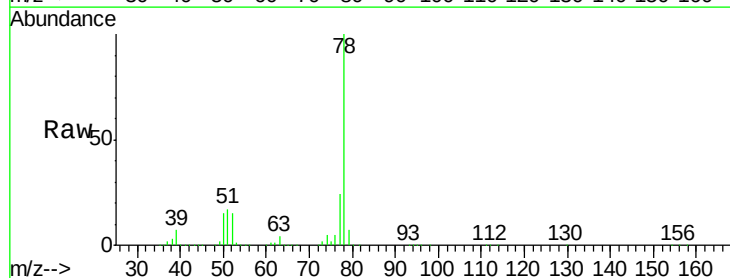
Tgt Ion: 78 Resp: 3146636

Ion Ratio Lower Upper

78 100

77 24.5 19.1 28.7

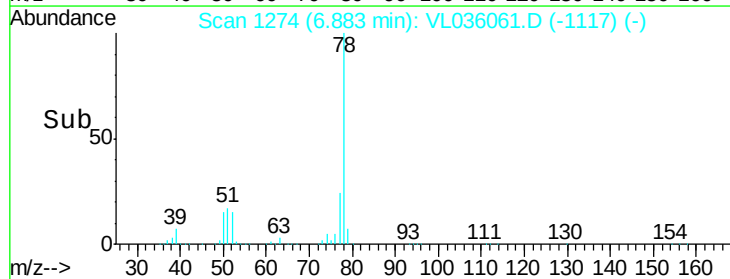
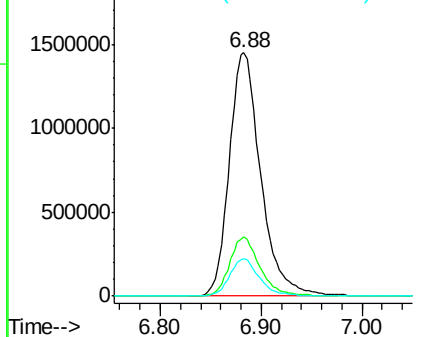
50 15.3 12.0 18.0

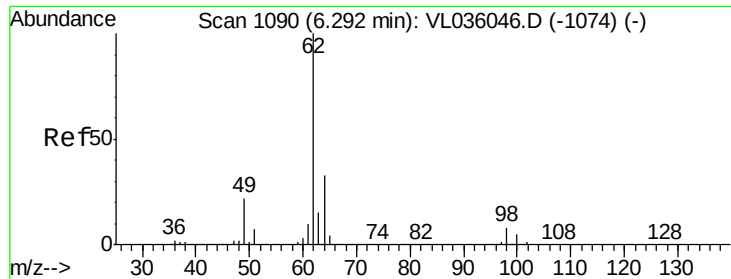


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





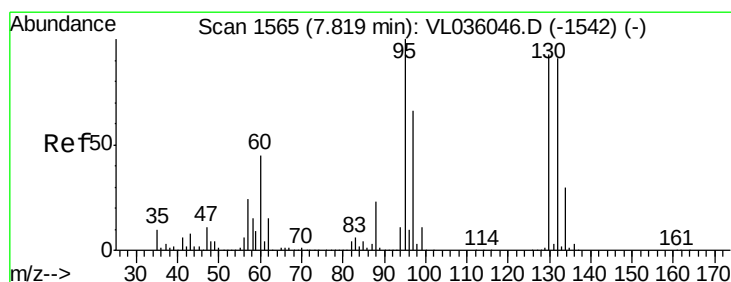
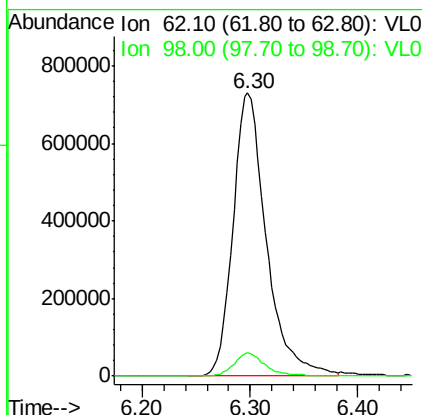
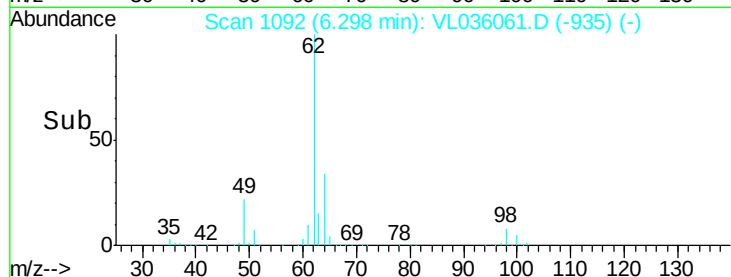
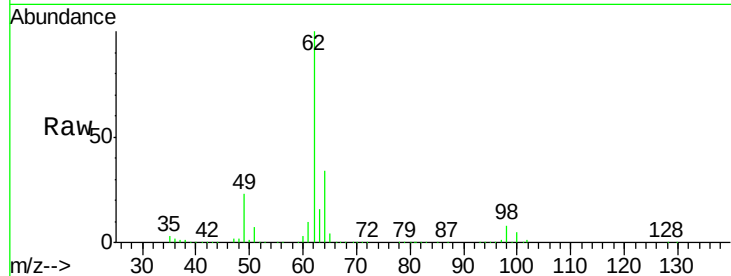
#37  
 1,2-Dichloroethane  
 Concen: 10.451 ppbv  
 RT: 6.30 min Scan# 1092  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion: 62 Resp: 1570950  
 Ion Ratio Lower Upper  
 62 100  
 98 8.0 6.4 9.6

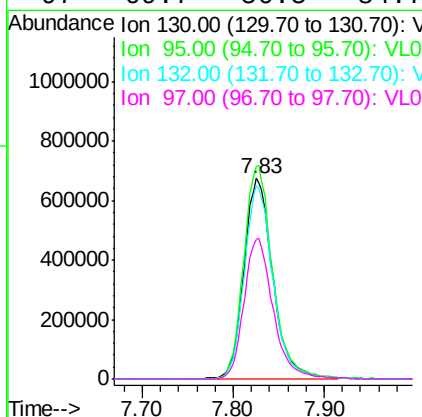
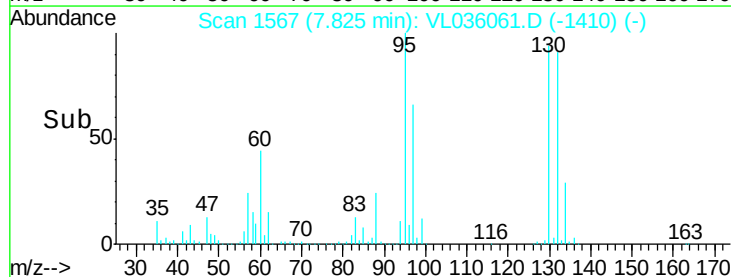
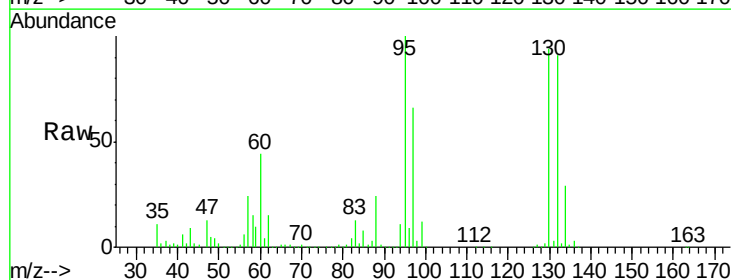
Manual Integrations  
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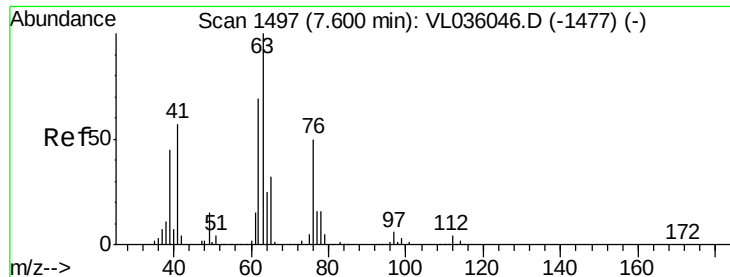
SAM  
 12/7/2020 12:13:47 PM



#38  
 Trichloroethene  
 Concen: 11.414 ppbv  
 RT: 7.83 min Scan# 1567  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion:130 Resp: 1481504  
 Ion Ratio Lower Upper  
 130 100  
 95 105.9 86.1 129.1  
 132 96.3 78.6 118.0  
 97 69.7 56.5 84.7





#39

1,2-Dichloropropane

Concen: 10.317 ppbv

RT: 7.60 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 63 Resp: 1134507

Ion Ratio Lower Upper

63 100

41 55.7 45.4 68.0

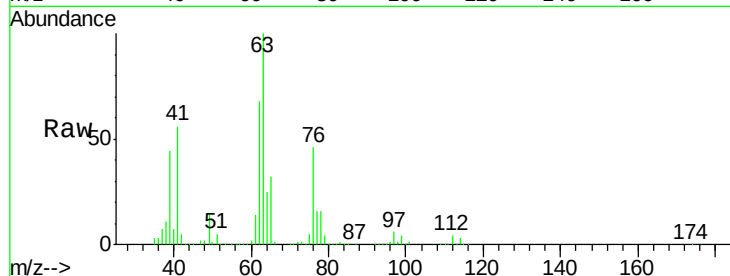
62 68.3 55.3 82.9

Manual Integrations

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SAM

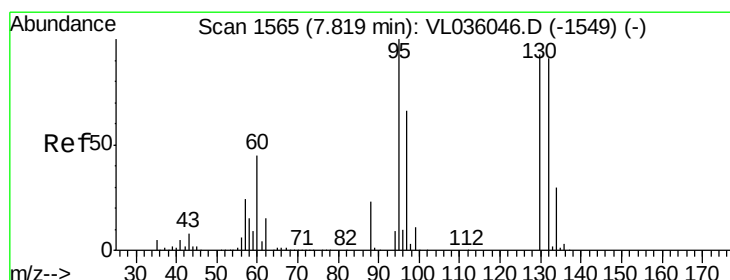
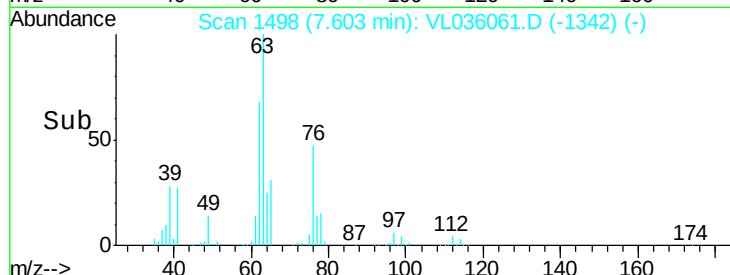
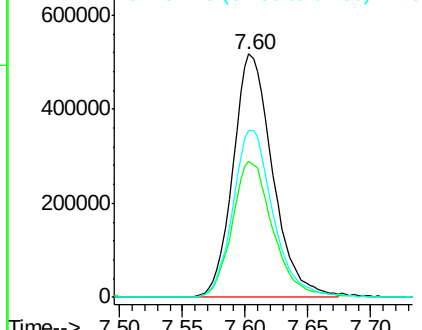
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.336 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion: 88 Resp: 416128

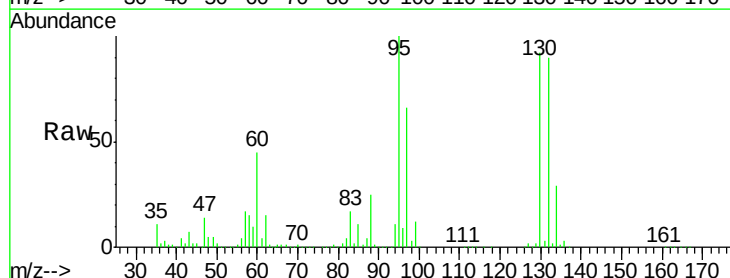
Ion Ratio Lower Upper

88 100

58 0.0 91.0 136.6#

43 0.0 163.3 244.9#

57 0.0 865.6 1298.4#

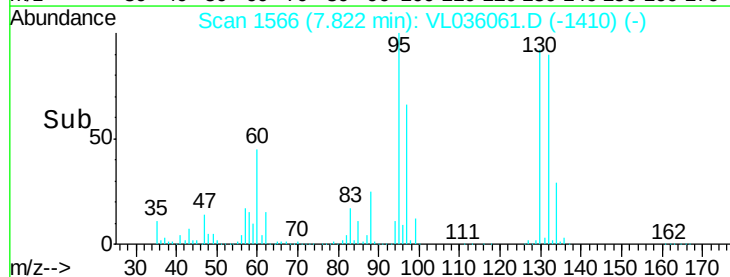
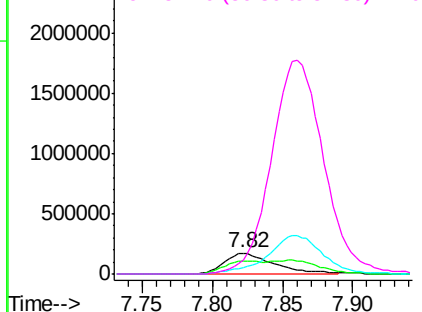


Abundance Ion 88.10 (87.80 to 88.80): VL0

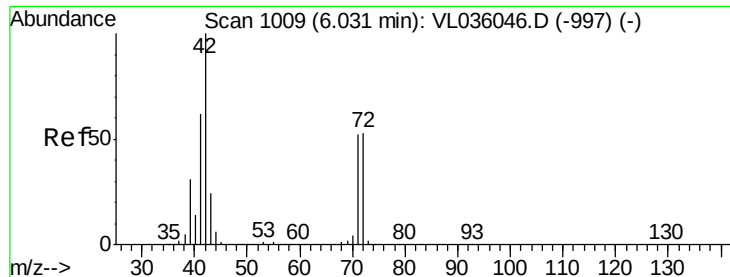
Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0







#41

Tetrahydrofuran

Concen: 11.446 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

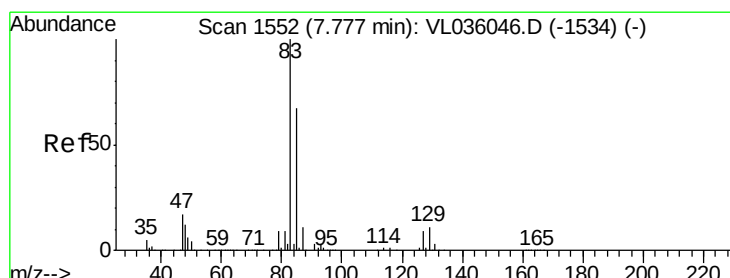
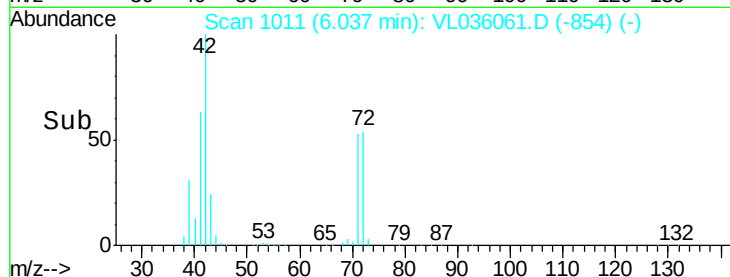
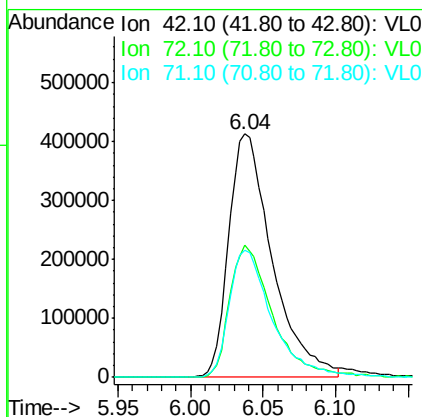
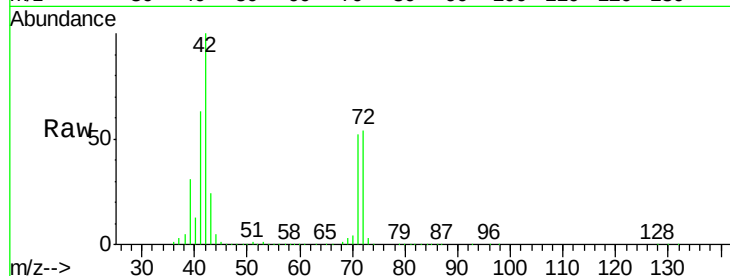
VL1203ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 861640 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 54.2  | 42.7  | 64.1   |
| 71       | 52.4  | 41.0  | 61.4   |

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#42

Bromodichloromethane

Concen: 11.194 ppbv

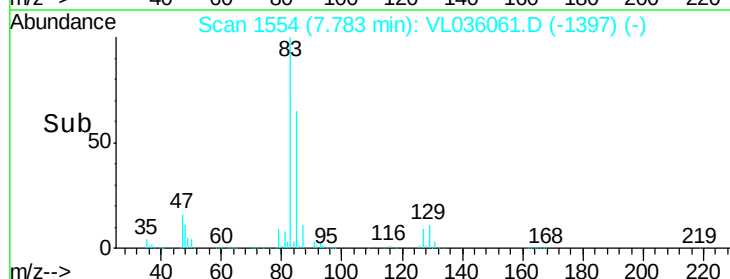
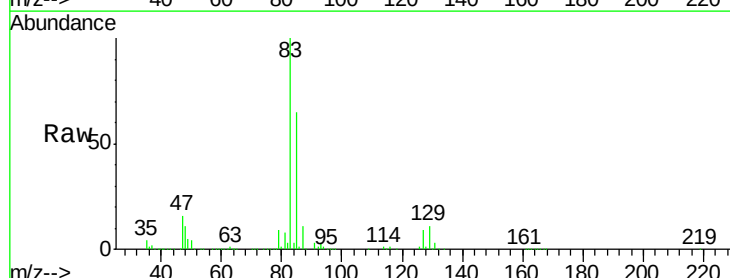
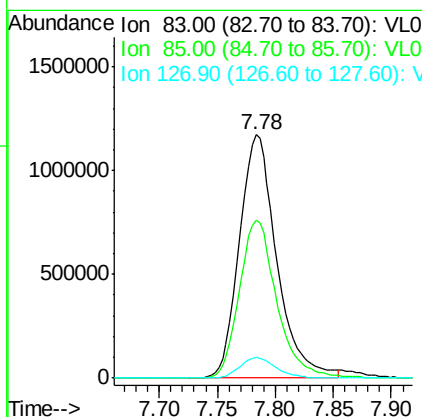
RT: 7.78 min Scan# 1554

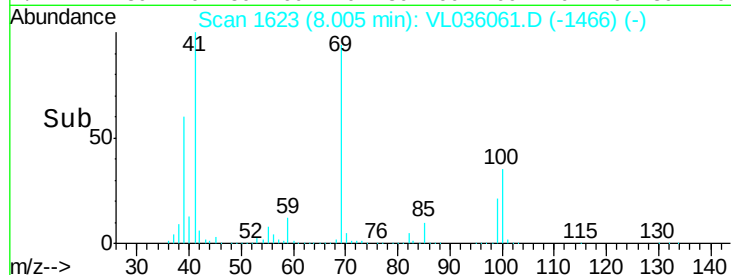
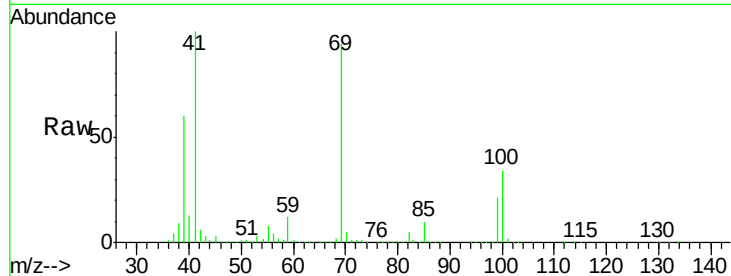
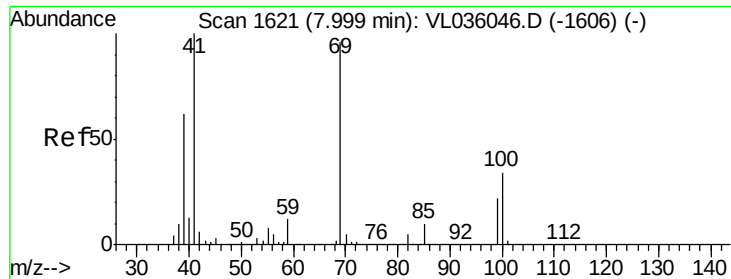
Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 2633016 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 64.9  | 53.7  | 80.5    |
| 127      | 8.6   | 7.0   | 10.6    |





#43

Methyl Methacrylate

Concen: 12.276 ppbv

RT: 8.01 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tot Ion: 69 Resp: 1318521

Ion Ratio Lower Upper

69 100

41 107.9 86.5 129.7

100 35.8 29.0 43.6

Instrument :

MSVOA\_L

ClientSampleId :

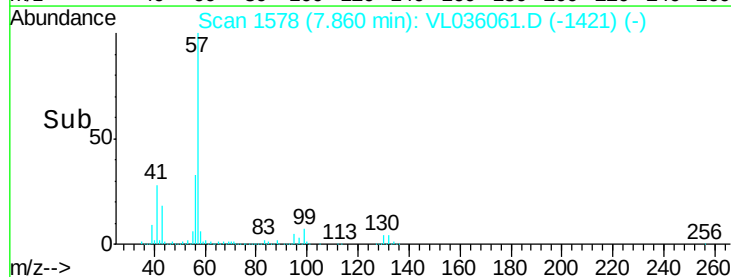
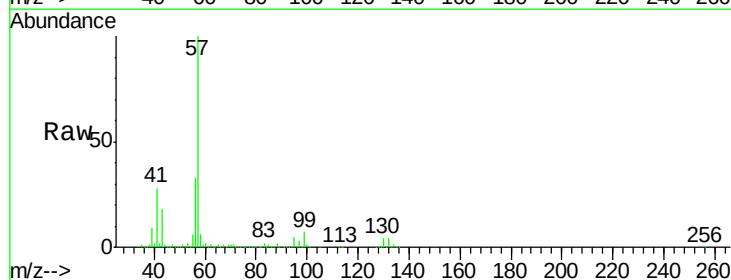
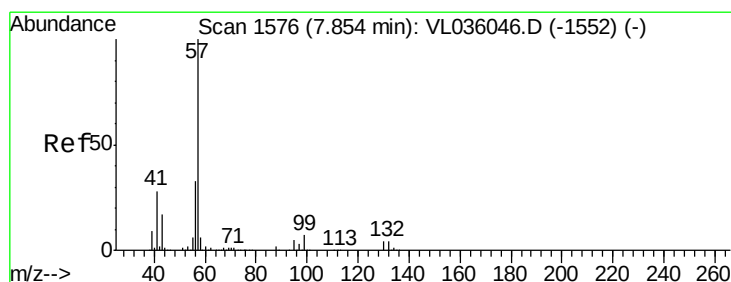
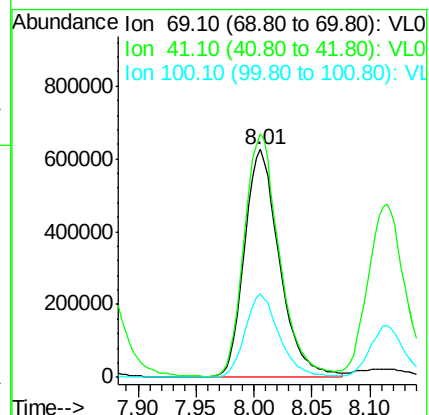
VL1203ABS01

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#44

2,2,4-Trimethylpentane

Concen: 10.668 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

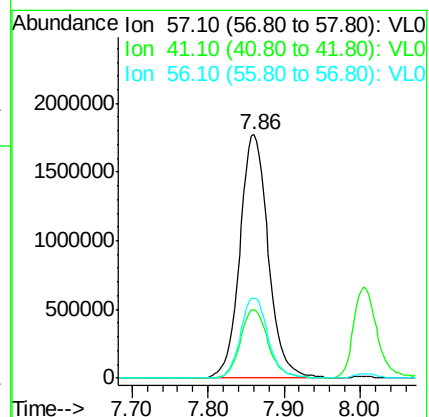
Tgt Ion: 57 Resp: 4596999

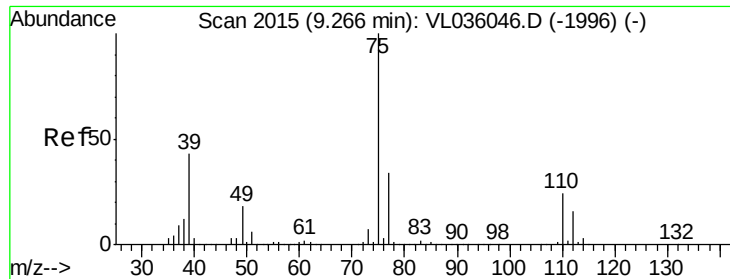
Ion Ratio Lower Upper

57 100

41 27.6 21.9 32.9

56 32.2 25.8 38.6





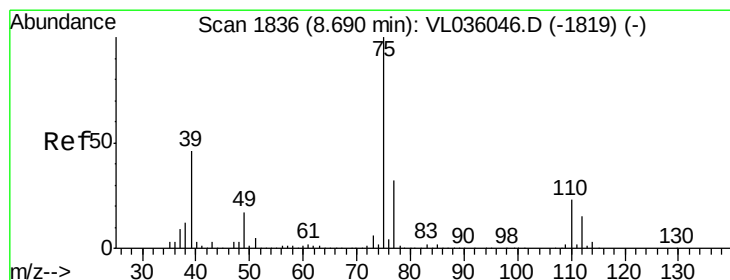
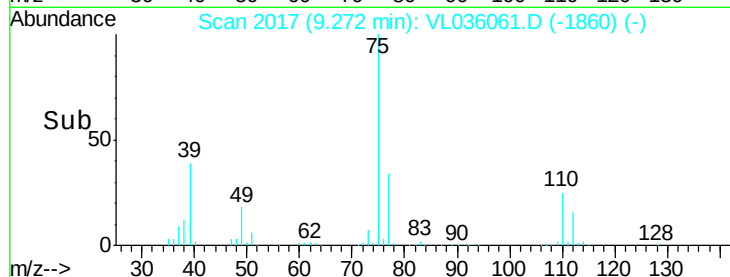
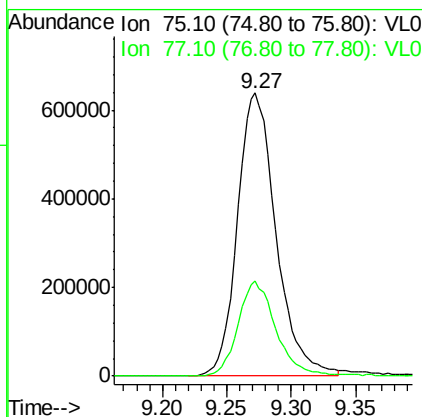
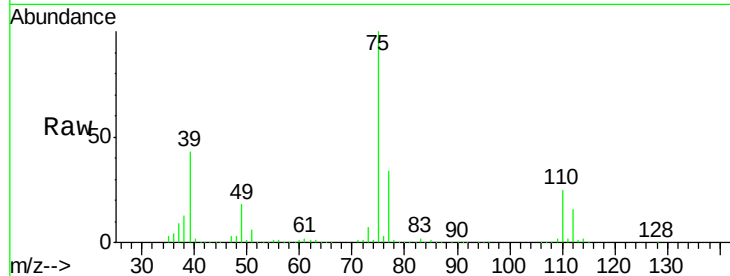
#45  
t-1,3-Dichloropropene  
Concen: 13.236 ppbv  
RT: 9.27 min Scan# 2017  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion: 75 Resp: 1329275  
Ion Ratio Lower Upper  
75 100  
77 33.8 26.8 40.2

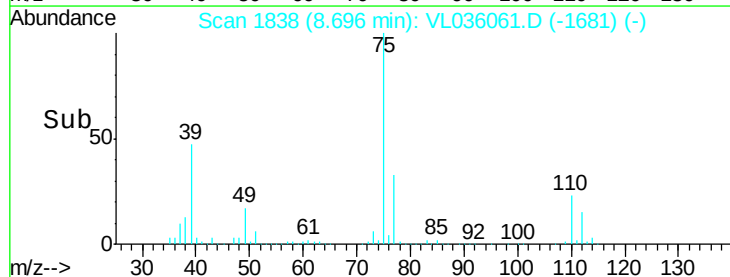
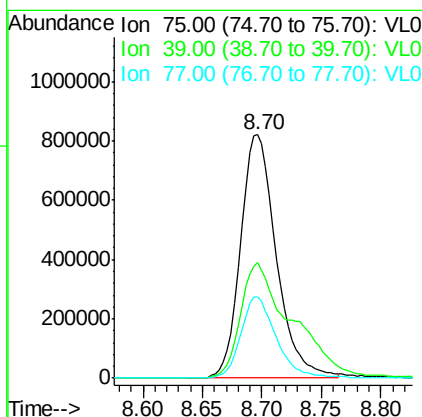
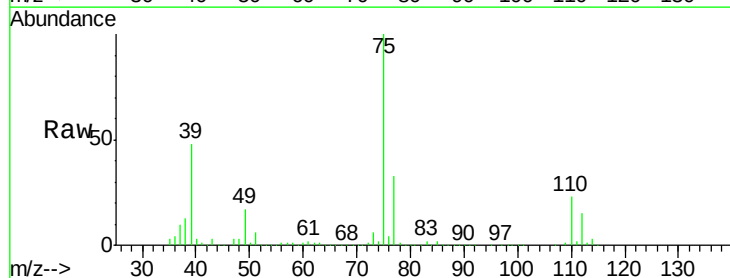
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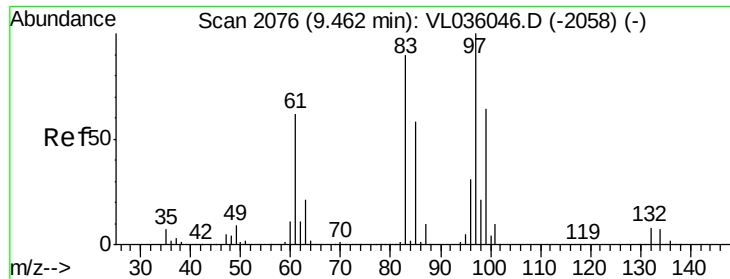
SAM  
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#46  
cis-1,3-Dichloropropene  
Concen: 12.926 ppbv  
RT: 8.70 min Scan# 1838  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion: 75 Resp: 1711886  
Ion Ratio Lower Upper  
75 100  
39 47.5 37.0 55.4  
77 33.3 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 10.621 ppbv

RT: 9.47 min Scan# 2078

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 97 Resp: 1483070

Ion Ratio Lower Upper

97 100

83 88.6 72.1 108.1

85 58.0 46.6 69.8

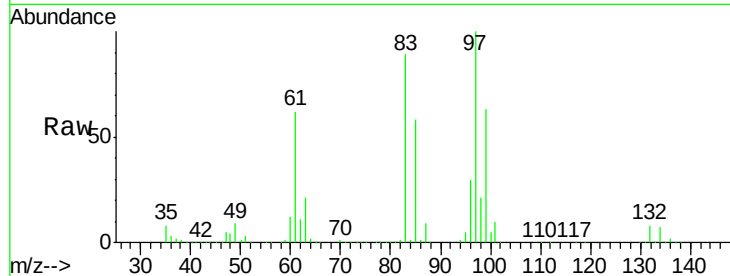
99 63.2 51.0 76.4

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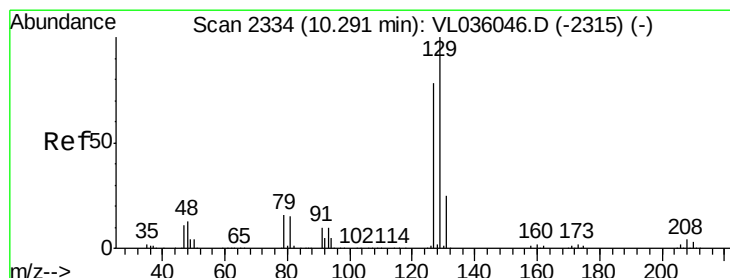
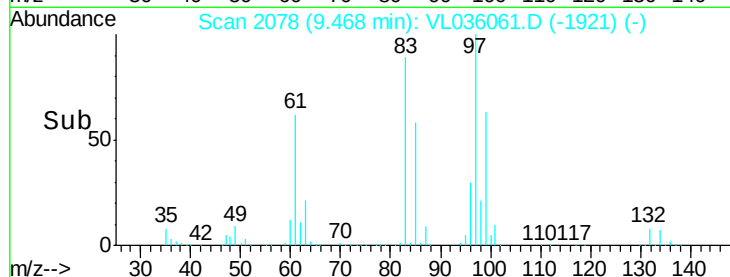
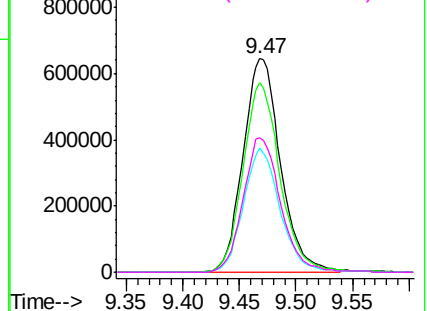


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 12.167 ppbv

RT: 10.30 min Scan# 2336

Delta R.T. 0.01 min

Lab File: VL036061.D

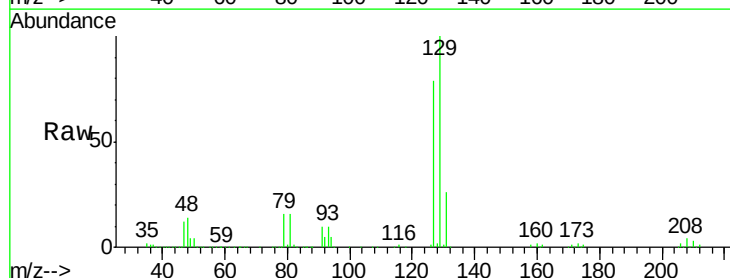
Acq: 3 Dec 2020 21:49

Tgt Ion: 129 Resp: 2356300

Ion Ratio Lower Upper

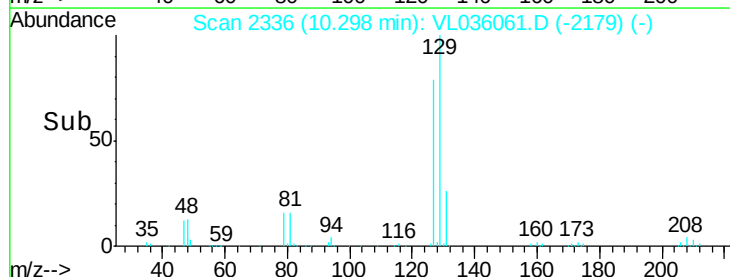
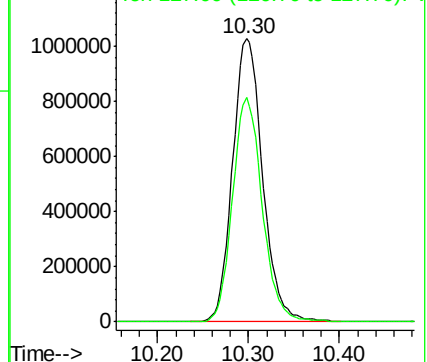
129 100

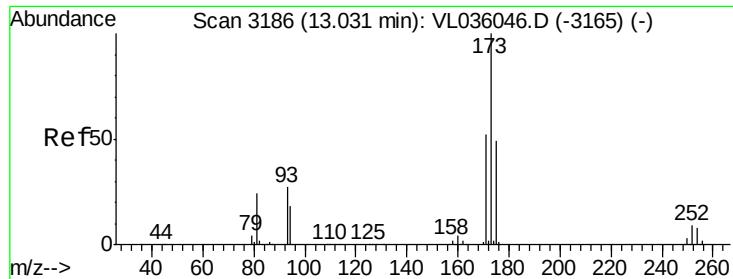
127 78.8 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.807 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:173 Resp: 1836759

Ion Ratio Lower Upper

173 100

175 49.8 39.5 59.3

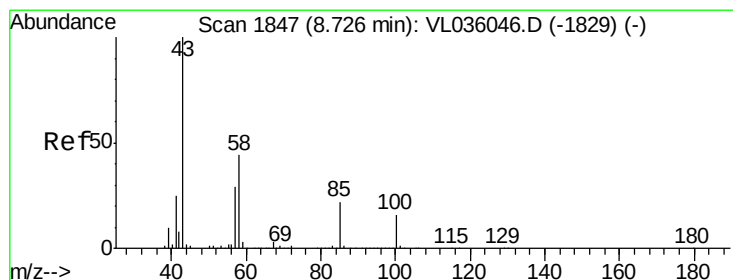
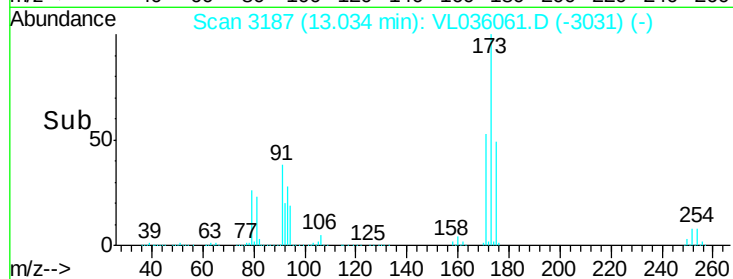
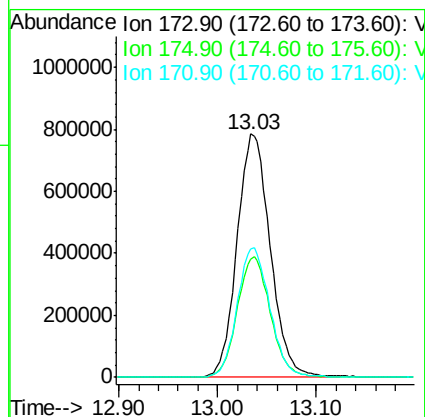
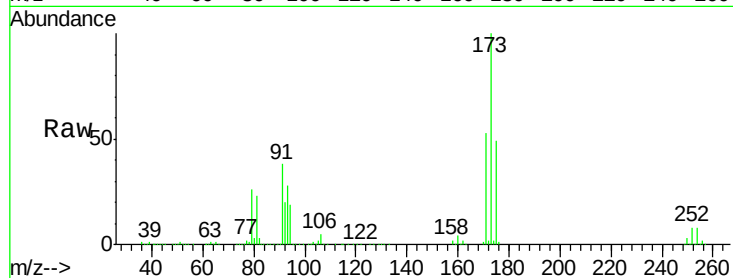
171 52.8 42.6 63.8

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#50

4-Methyl-2-Pentanone

Concen: 11.375 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL036061.D

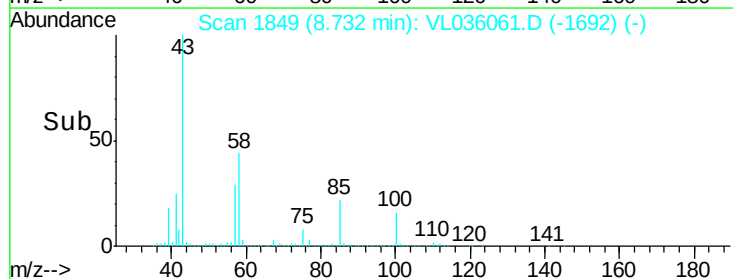
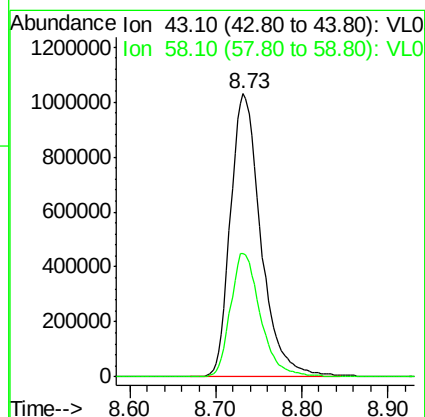
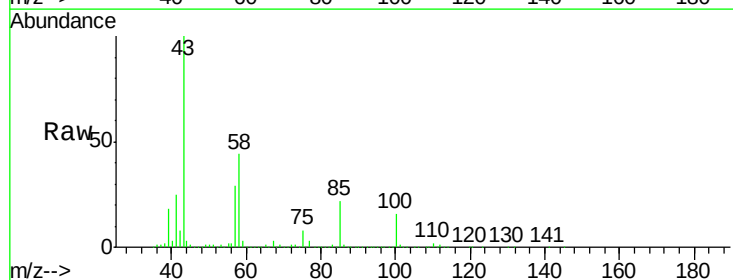
Acq: 3 Dec 2020 21:49

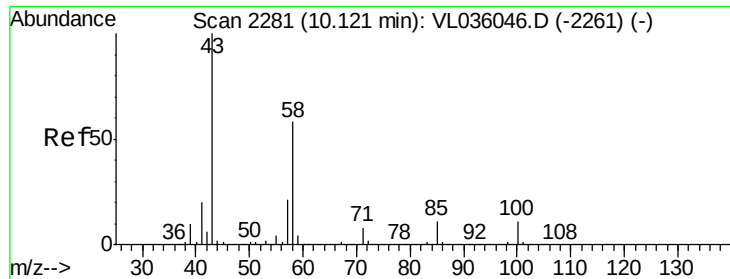
Tgt Ion: 43 Resp: 2533955

Ion Ratio Lower Upper

43 100

58 43.2 34.7 52.1





#51

2-Hexanone

Concen: 12.398 ppbv

RT: 10.12 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 43 Resp: 1988767

Ion Ratio Lower Upper

43 100

58 57.8 45.7 68.5

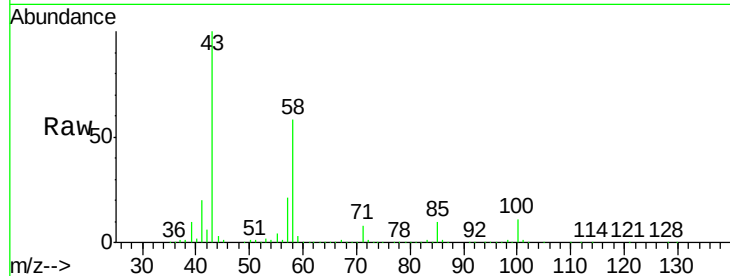
98 1.0 0.8 1.2

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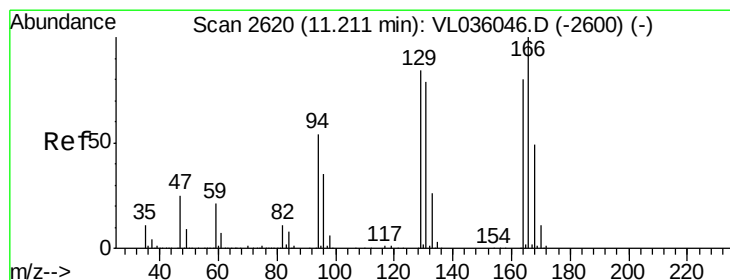
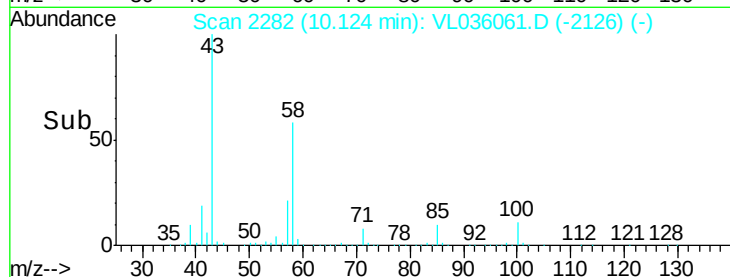
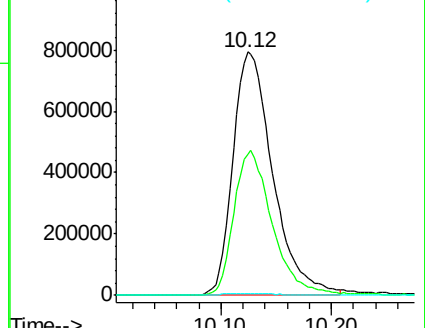
12/7/2020 12:13:47 PM



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: 11.346 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion:164 Resp: 1278273

Ion Ratio Lower Upper

164 100

166 125.8 100.2 150.2

129 103.1 83.7 125.5

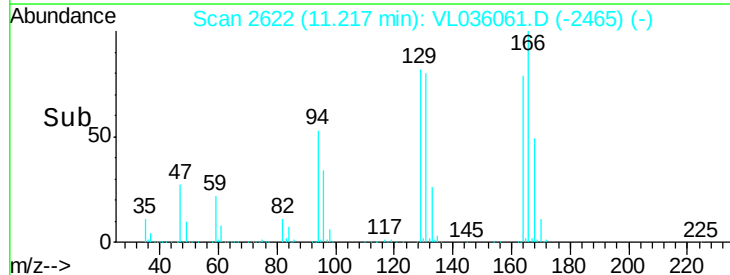
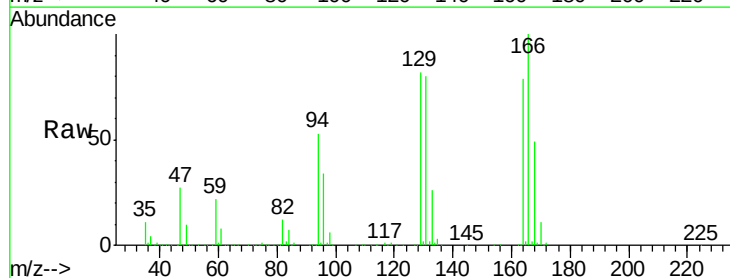
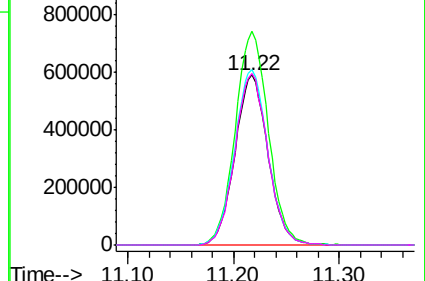
131 101.2 78.7 118.1

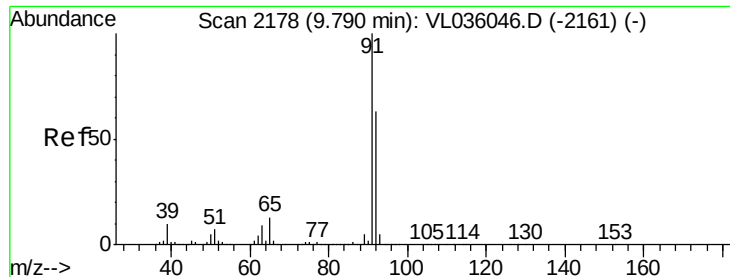
Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.031 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion: 91 Resp: 3851695

Ion Ratio Lower Upper

91 100

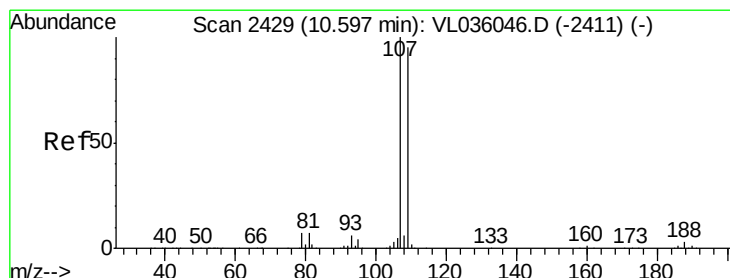
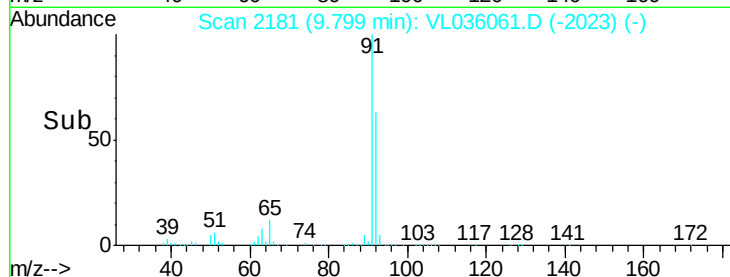
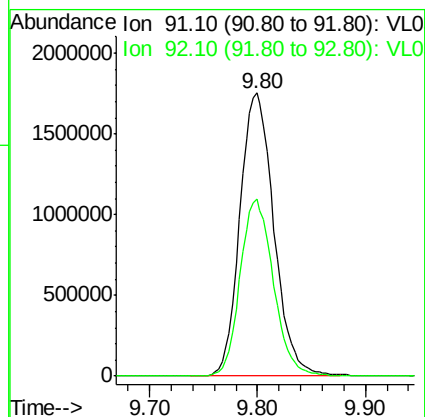
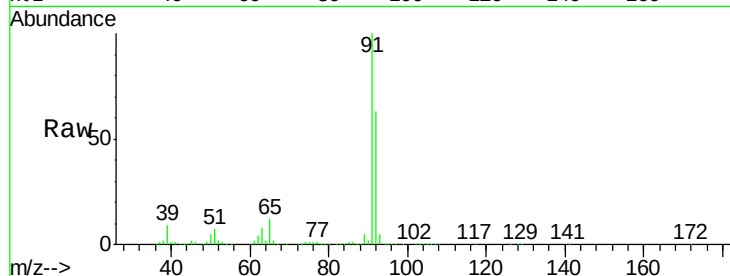
92 61.5 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 11.076 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. 0.01 min

Lab File: VL036061.D

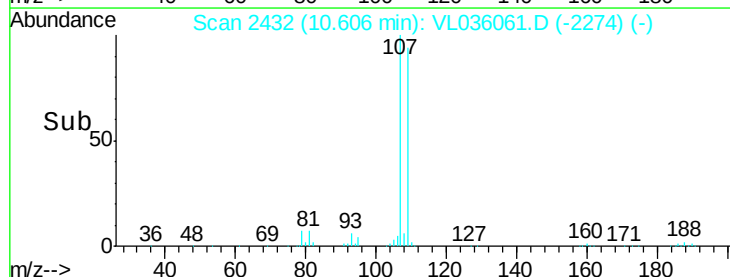
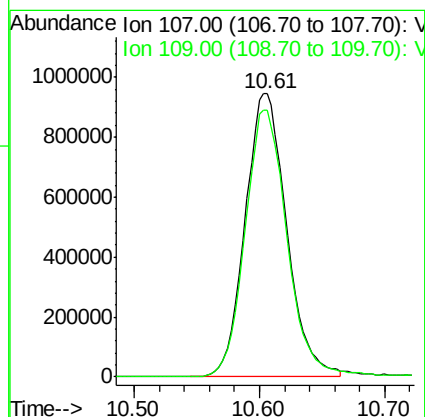
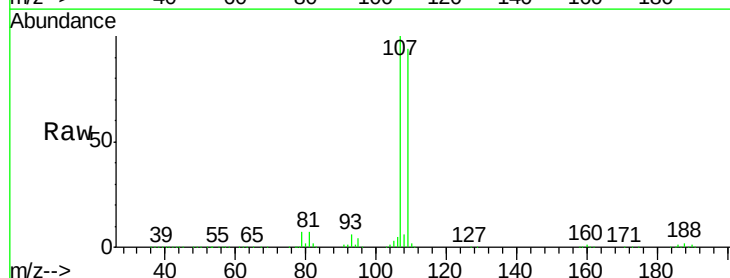
Acq: 3 Dec 2020 21:49

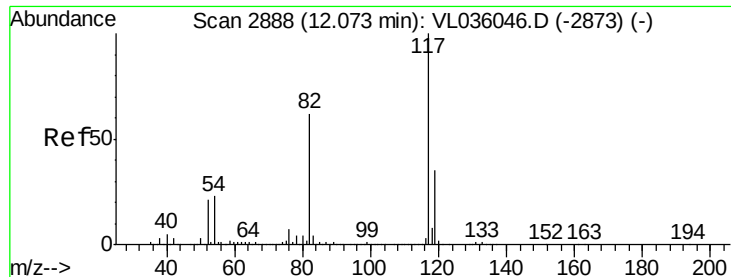
Tgt Ion: 107 Resp: 2173605

Ion Ratio Lower Upper

107 100

109 94.2 75.7 113.5





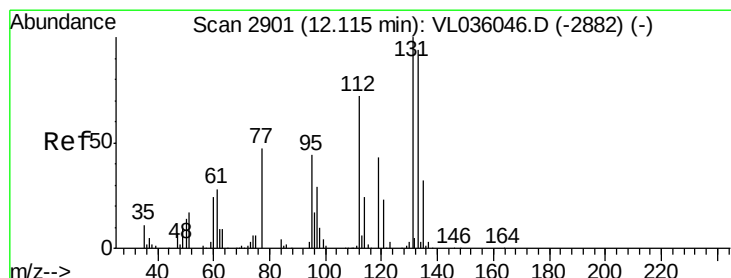
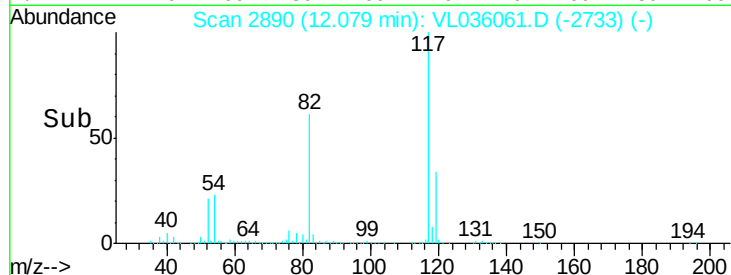
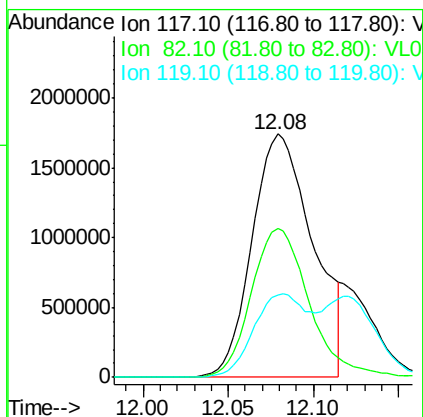
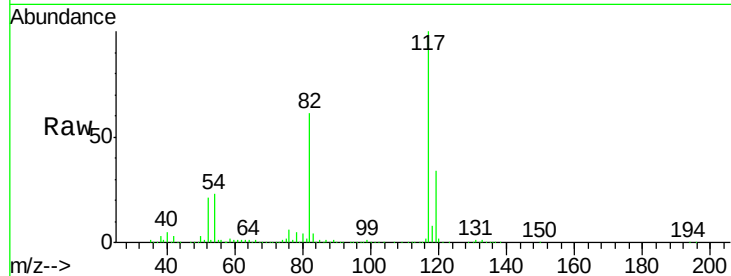
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.08 min Scan# 2890  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion:117 Resp: 4321612  
Ion Ratio Lower Upper  
117 100  
82 59.1 49.9 74.9  
119 29.2 28.7 43.1

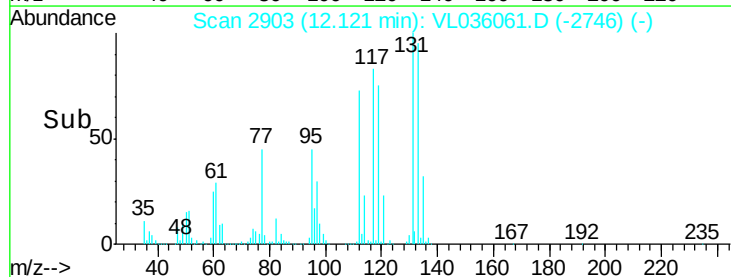
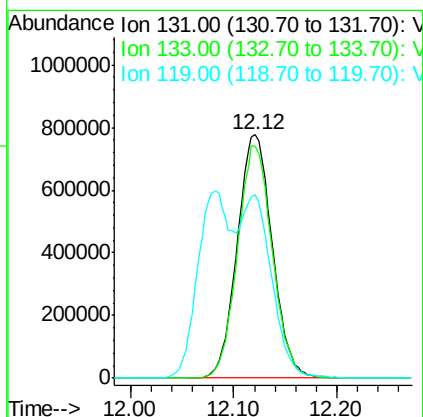
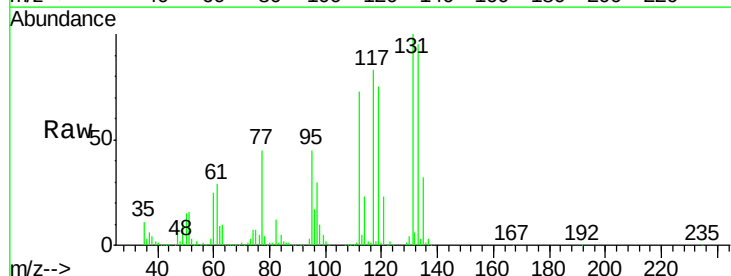
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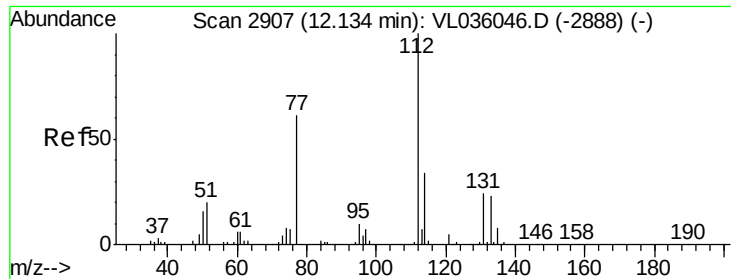


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.413 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion:131 Resp: 1837831  
Ion Ratio Lower Upper  
131 100  
133 94.9 76.1 114.1  
119 67.9 49.5 74.3







#57

Chlorobenzene

Concen: 9.820 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:112 Resp: 3123523

Ion Ratio Lower Upper

112 100

77 62.8 49.3 73.9

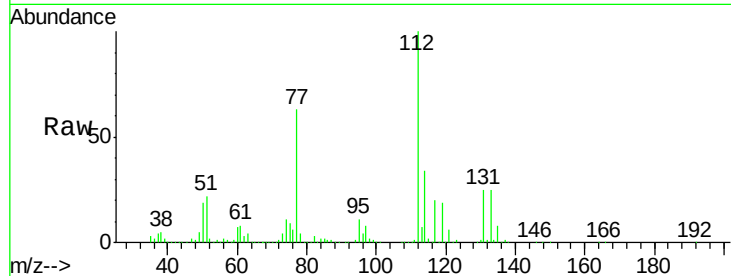
114 34.0 30.2 36.9

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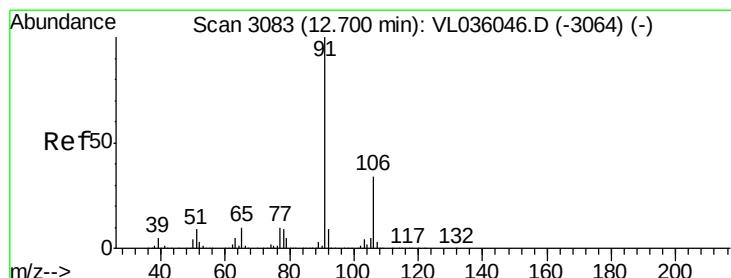
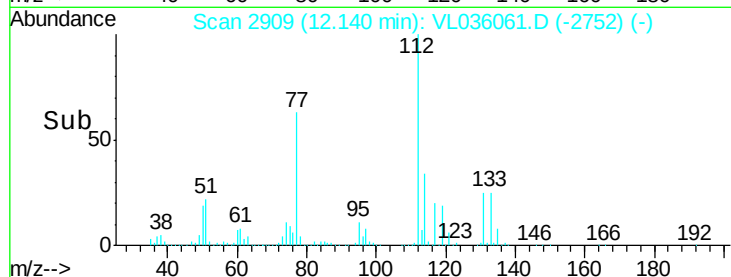
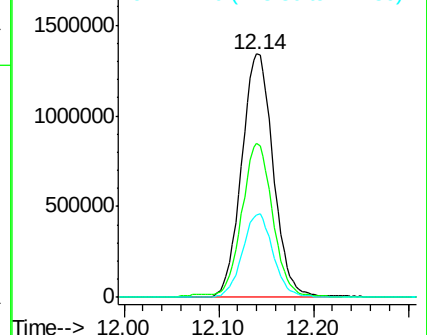
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.409 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.01 min

Lab File: VL036061.D

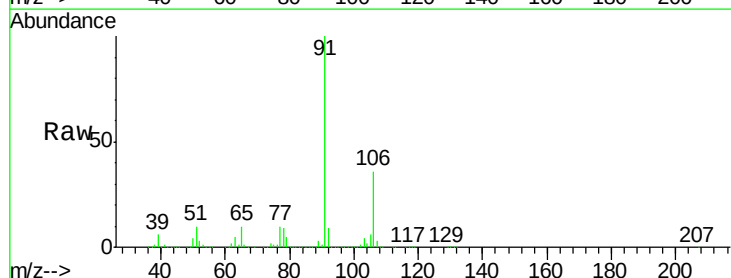
Acq: 3 Dec 2020 21:49

Tgt Ion: 91 Resp: 4938926

Ion Ratio Lower Upper

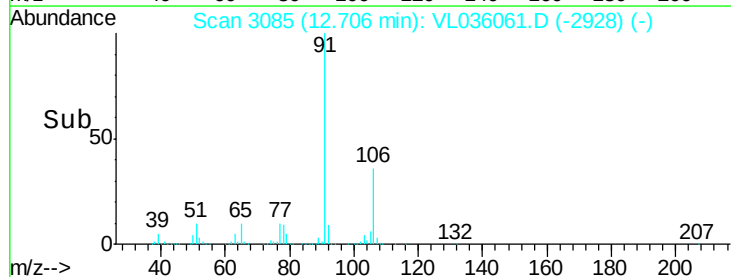
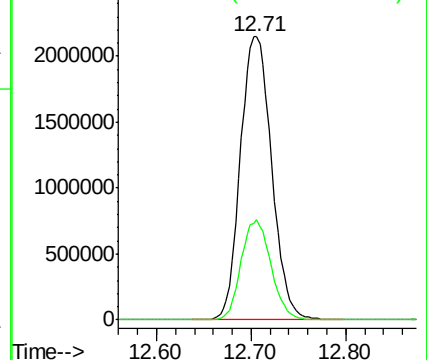
91 100

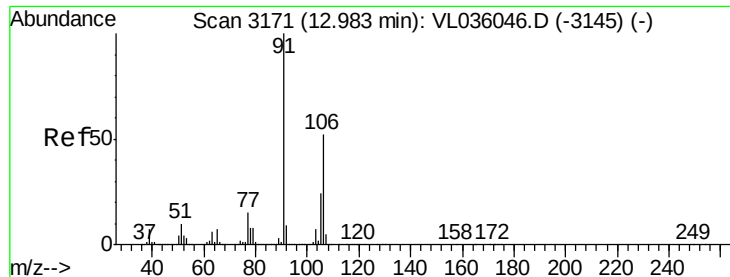
106 35.7 27.4 41.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





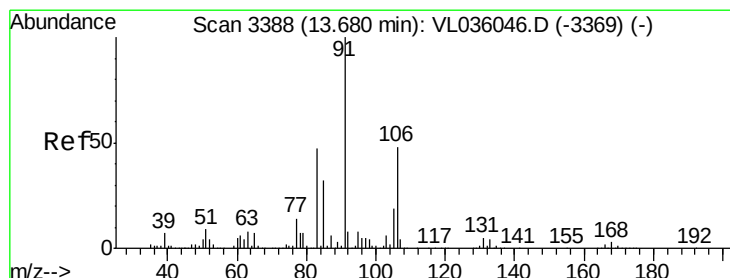
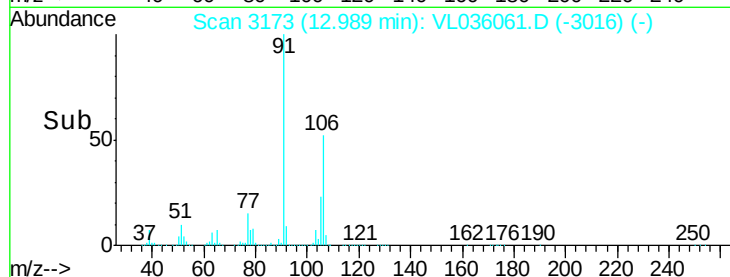
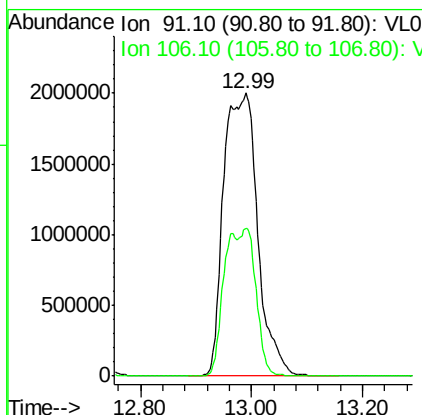
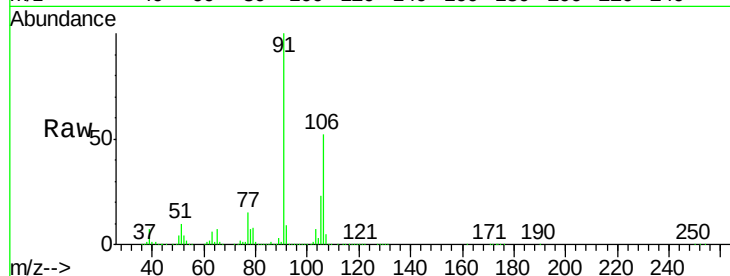
#59  
m/p-Xylene  
Concen: 21.730 ppbv m  
RT: 12.99 min Scan# 3173  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion: 91 Resp: 8539918  
Ion Ratio Lower Upper  
91 100  
106 48.5 38.7 58.1

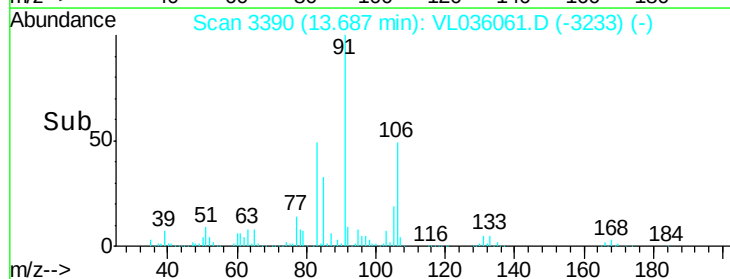
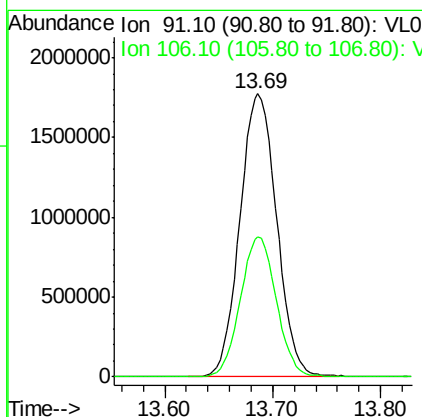
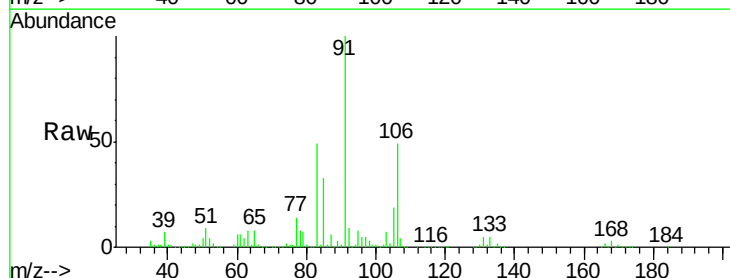
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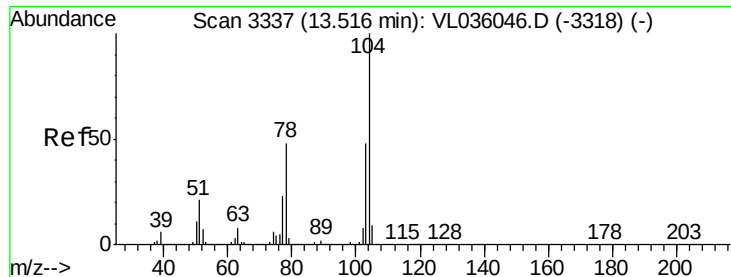
SAM  
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#60  
o-Xylene  
Concen: 10.633 ppbv  
RT: 13.69 min Scan# 3390  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion: 91 Resp: 4201675  
Ion Ratio Lower Upper  
91 100  
106 48.4 24.1 72.3





#61

Stvrene

Concen: 12.676 ppbv

RT: 13.52 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:104 Resp: 2862188

Ion Ratio Lower Upper

104 100

78 48.0 38.0 57.0

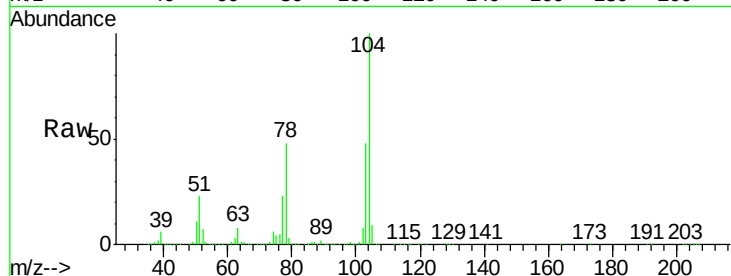
103 47.9 37.7 56.5

Manual Integrations

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SAM

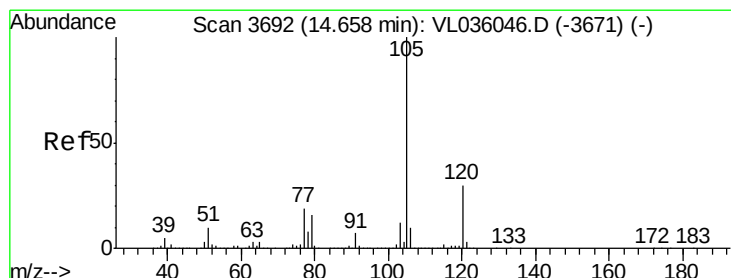
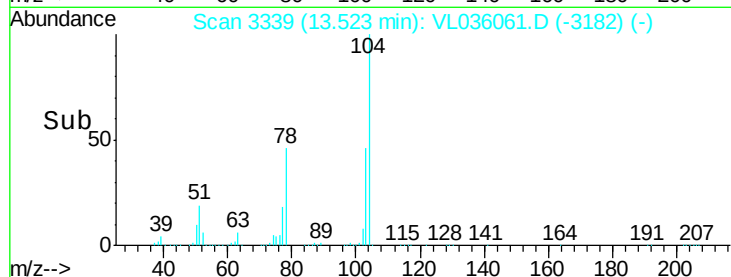
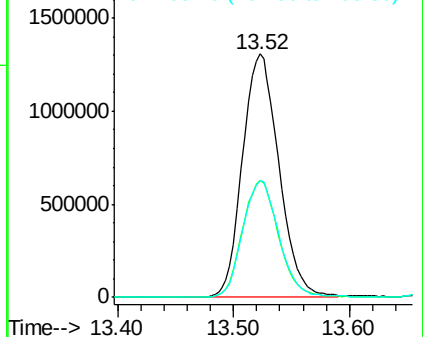
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.354 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. 0.01 min

Lab File: VL036061.D

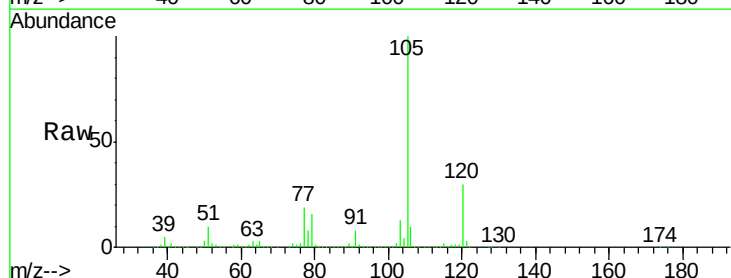
Acq: 3 Dec 2020 21:49

Tgt Ion:105 Resp: 6080571

Ion Ratio Lower Upper

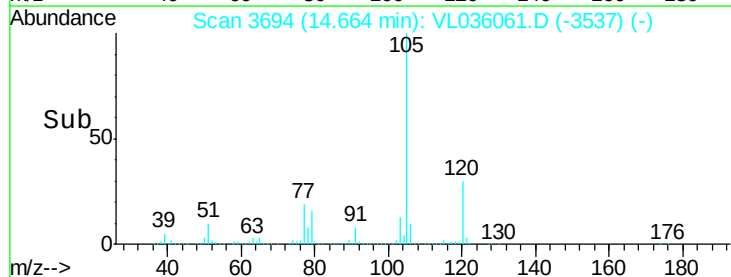
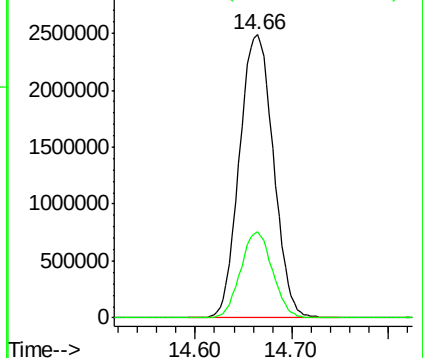
105 100

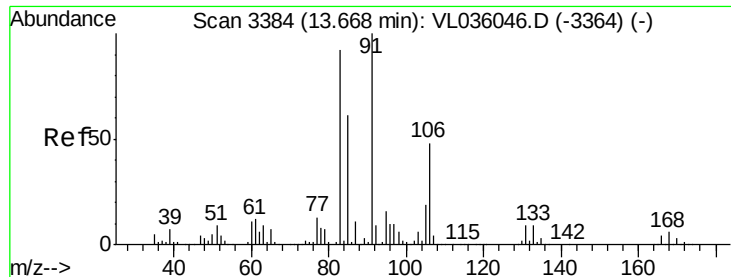
120 28.5 22.6 34.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





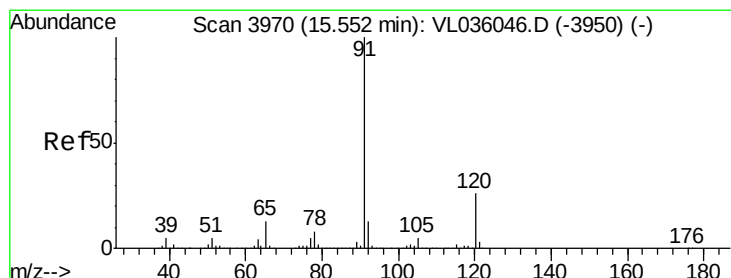
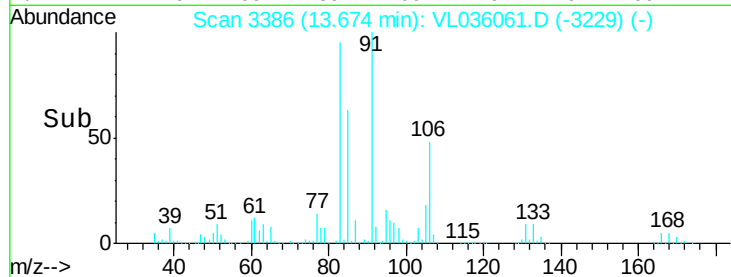
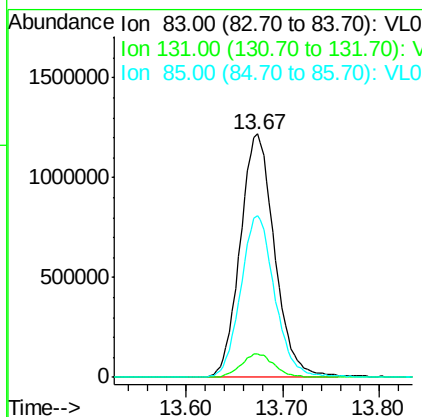
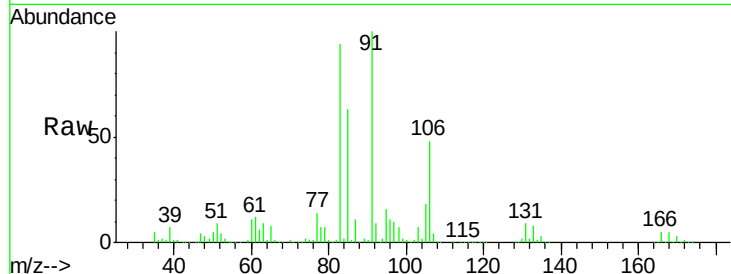
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.267 ppbv  
 RT: 13.67 min Scan# 3386  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion: 83 Resp: 3010519  
 Ion Ratio Lower Upper  
 83 100  
 131 9.5 4.8 14.4  
 85 66.5 33.3 99.9

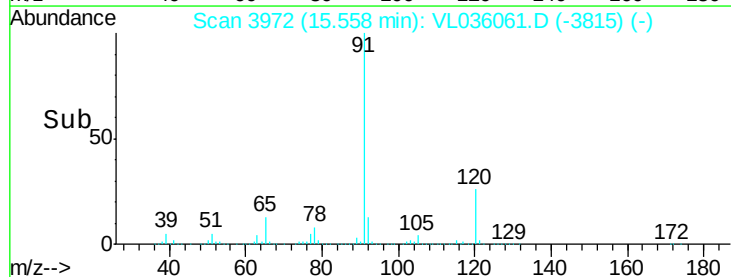
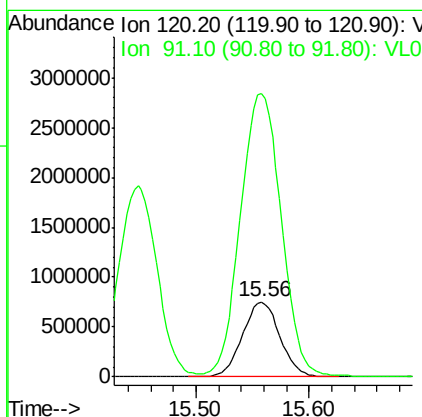
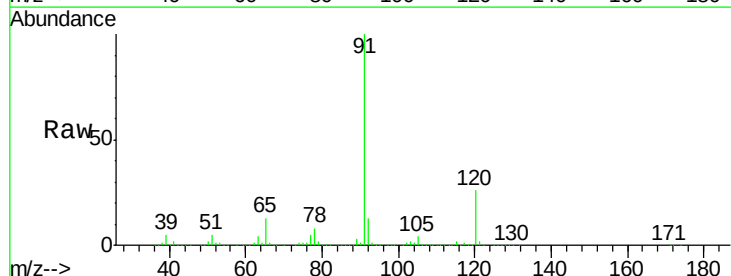
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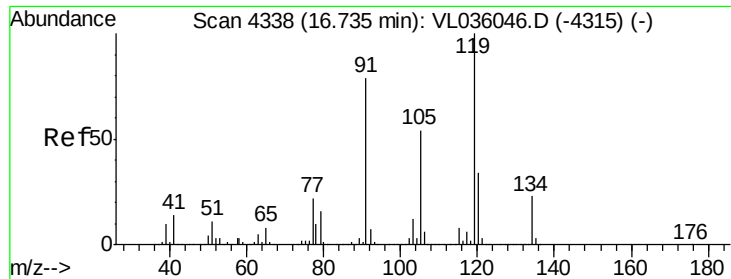
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#64  
 n-propylbenzene  
 Concen: 11.111 ppbv  
 RT: 15.56 min Scan# 3972  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion:120 Resp: 1726825  
 Ion Ratio Lower Upper  
 120 100  
 91 414.2 331.4 497.2





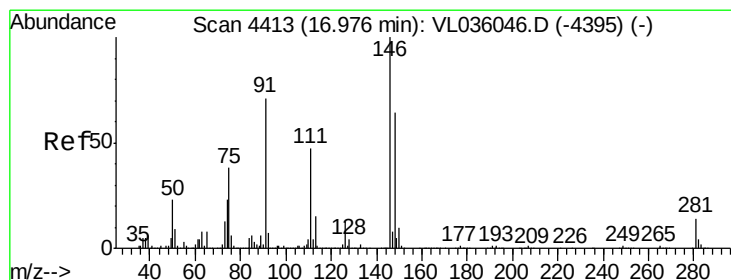
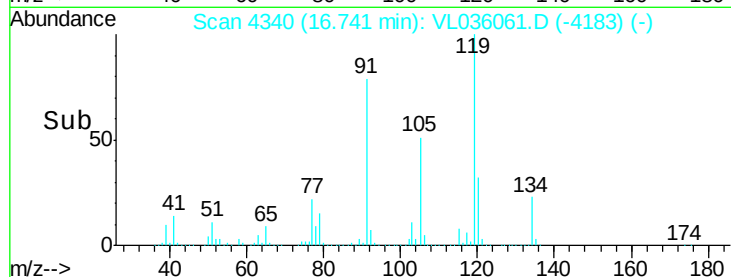
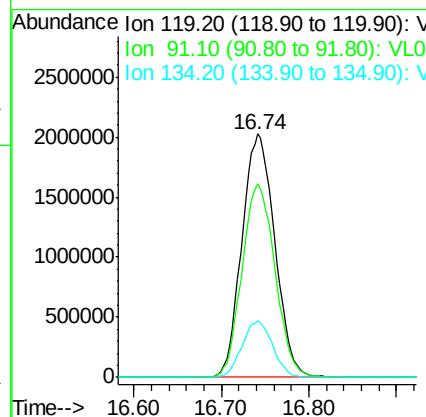
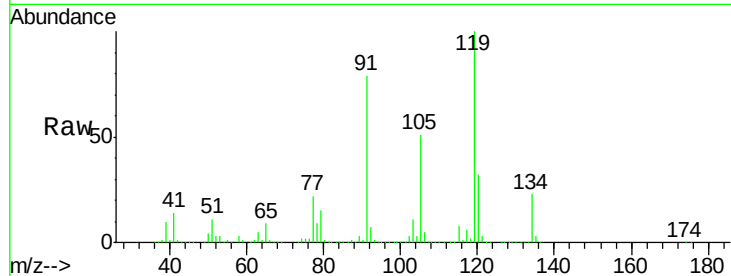
#65  
tert-Butylbenzene  
Concen: 10.716 ppbv  
RT: 16.74 min Scan# 4340  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1203ABS01

Tot Ion:119 Resp: 5283000  
Ion Ratio Lower Upper  
119 100  
91 79.8 63.4 95.2  
134 21.6 17.1 25.7

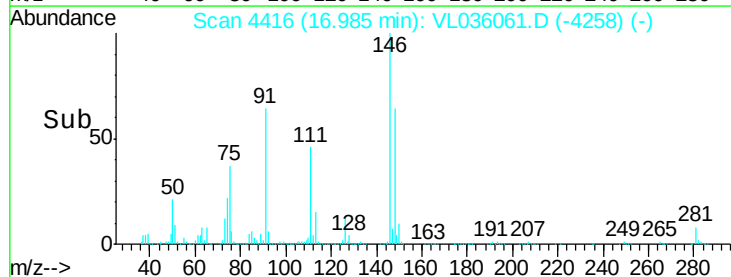
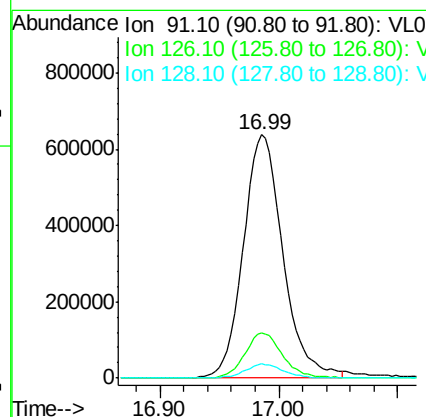
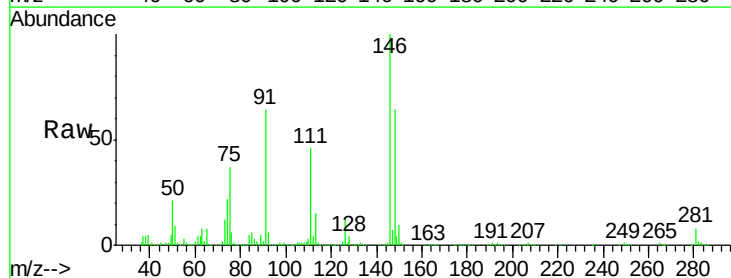
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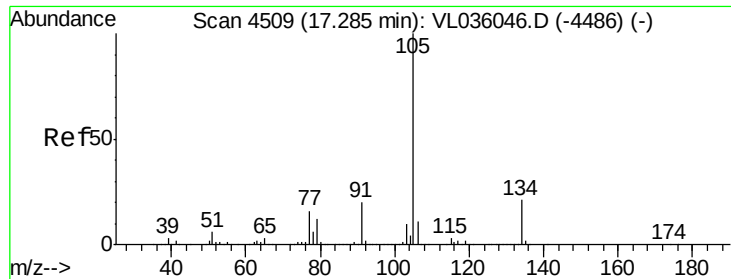
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12/7/2020 12:13:47 PM



#66  
Benzyl Chloride  
Concen: 12.390 ppbv  
RT: 16.99 min Scan# 4416  
Delta R.T. 0.01 min  
Lab File: VL036061.D  
Acq: 3 Dec 2020 21:49

Tgt Ion: 91 Resp: 1459764  
Ion Ratio Lower Upper  
91 100  
126 18.1 14.3 21.5  
128 5.7 4.7 7.1





#67

sec-Butylbenzene

Concen: 10.555 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:105 Resp: 7137446

Ion Ratio Lower Upper

105 100

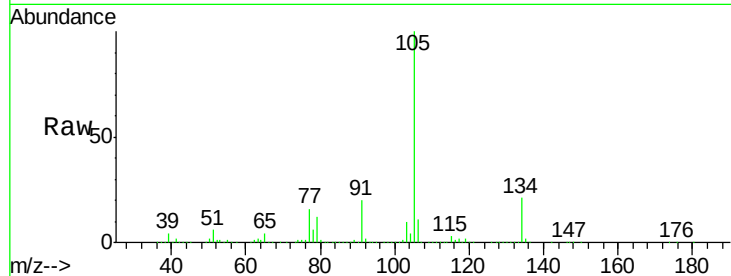
134 19.8 15.8 23.8

Manual Integrations

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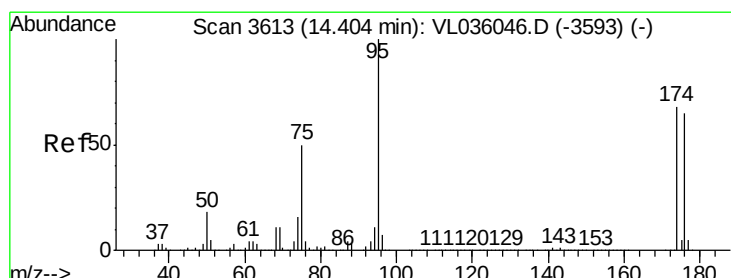
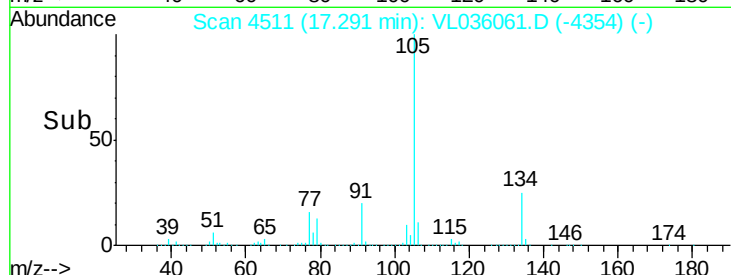
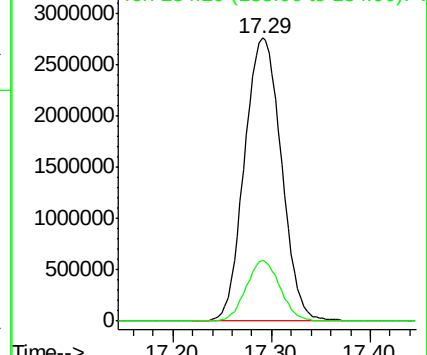
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12/7/2020 12:13:47 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.950 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

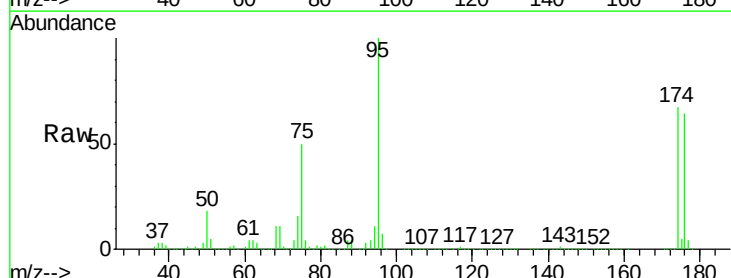
Tgt Ion: 95 Resp: 3272114

Ion Ratio Lower Upper

95 100

174 67.3 54.2 81.2

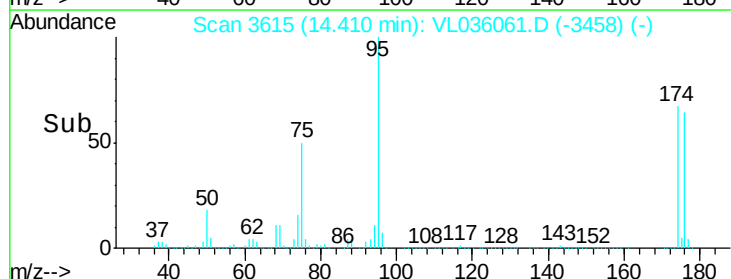
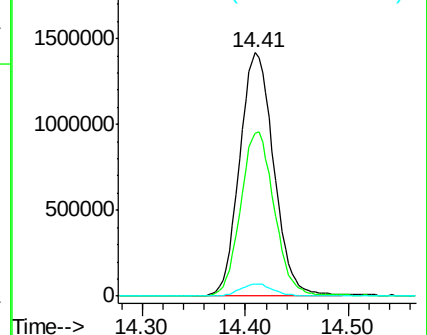
175 4.8 3.8 5.8

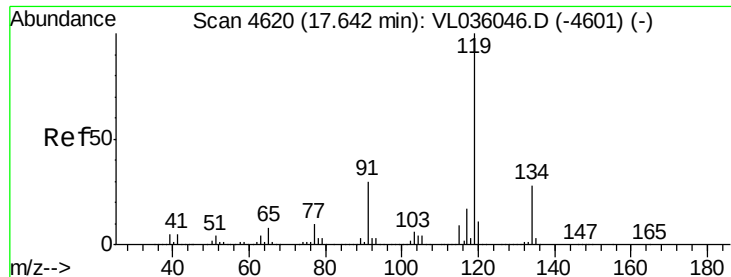


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





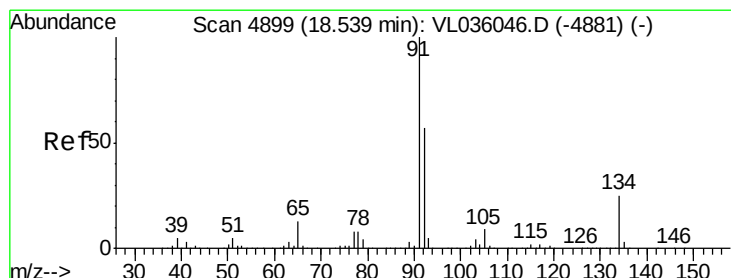
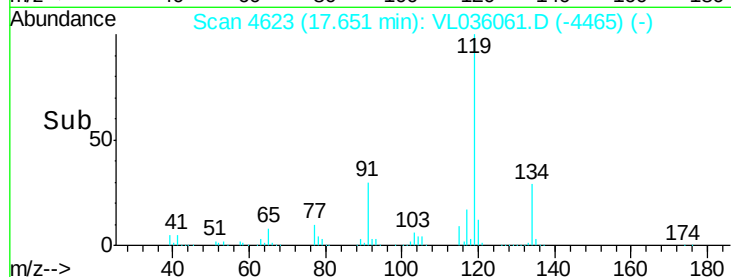
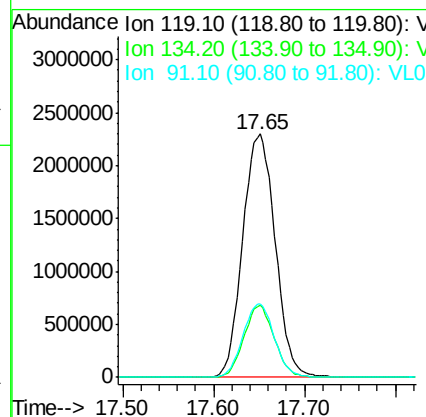
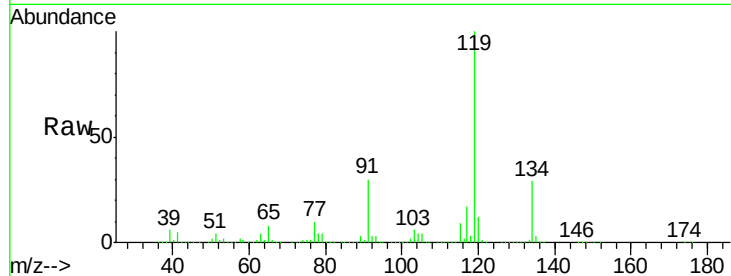
#69  
 p-Isopropyltoluene  
 Concen: 11.241 ppbv  
 RT: 17.65 min Scan# 4623  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion: 119 Resp: 5696934  
 Ion Ratio Lower Upper  
 119 100  
 134 27.6 22.2 33.2  
 91 29.2 23.2 34.8

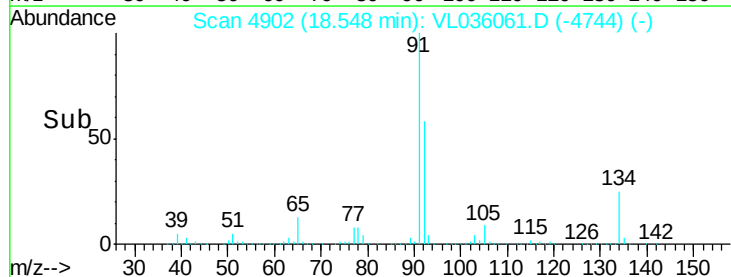
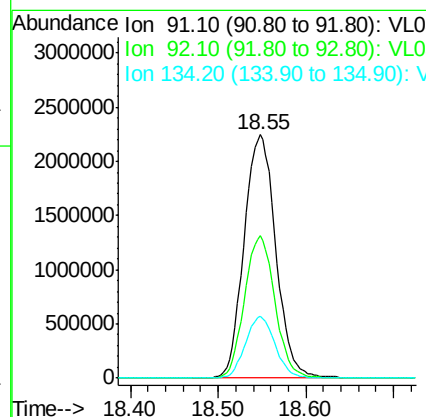
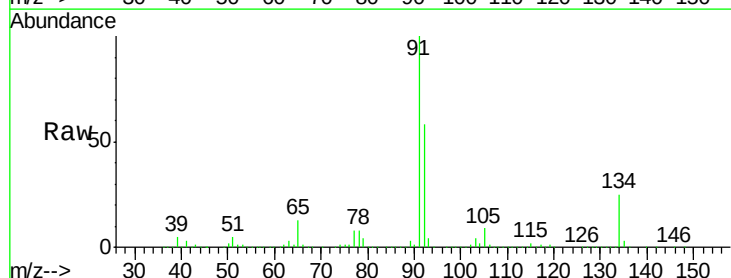
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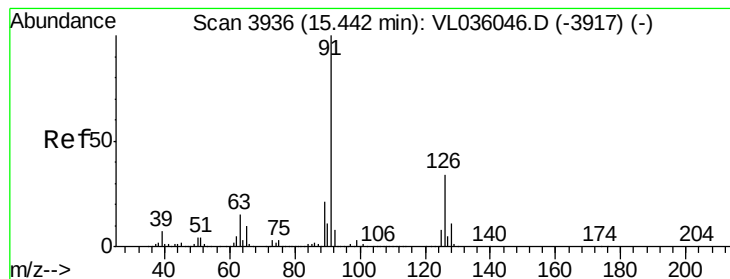
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#70  
 n-Butylbenzene  
 Concen: 11.150 ppbv  
 RT: 18.55 min Scan# 4902  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion: 91 Resp: 5637725  
 Ion Ratio Lower Upper  
 91 100  
 92 56.4 45.2 67.8  
 134 23.8 19.2 28.8





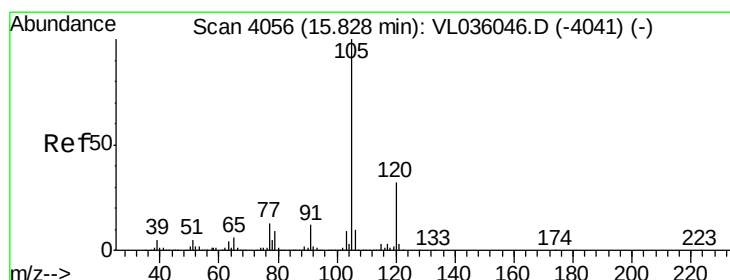
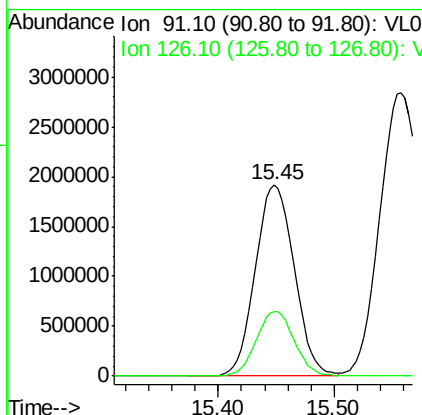
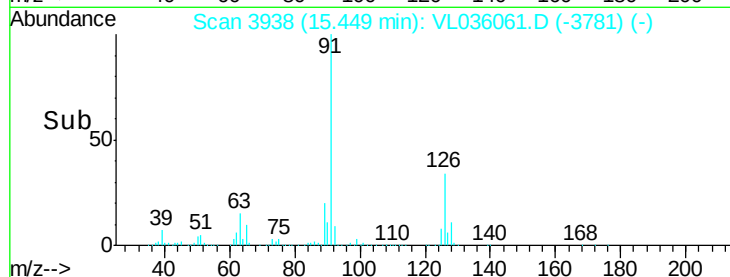
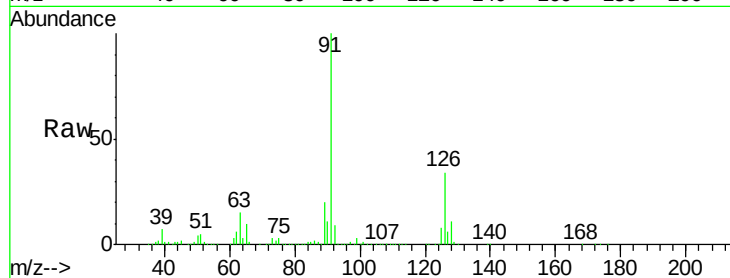
#71  
 2-Chlorotoluene  
 Concen: 11.042 ppbv  
 RT: 15.45 min Scan# 3938  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion: 91 Resp: 4488984  
 Ion Ratio Lower Upper  
 91 100  
 126 33.2 13.2 53.0

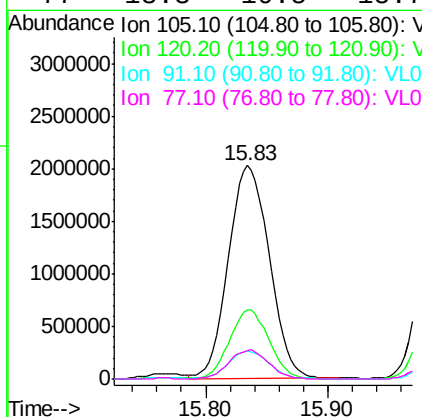
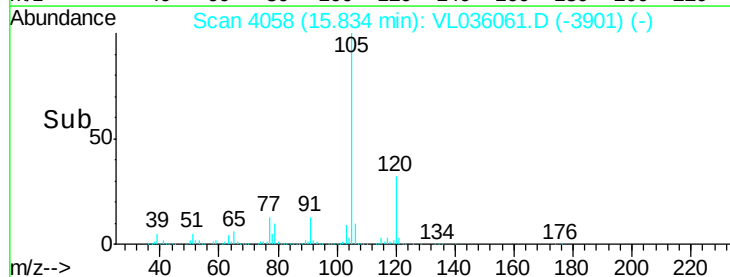
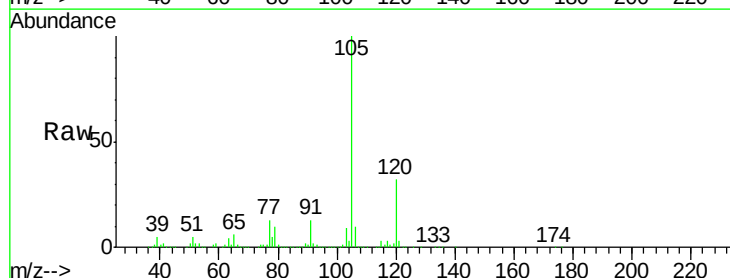
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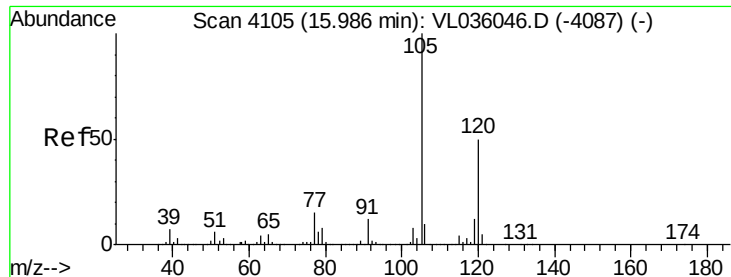


#72  
 4-Ethyltoluene  
 Concen: 11.528 ppbv  
 RT: 15.83 min Scan# 4058  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion: 105 Resp: 4710897  
 Ion Ratio Lower Upper  
 105 100  
 120 31.4 25.3 37.9  
 91 13.4 10.1 15.1  
 77 13.3 10.5 15.7







#73

1,3,5-Trimethylbenzene

Concen: 11.243 ppbv

RT: 16.00 min Scan# 4108

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:105 Resp: 4319902

Ion Ratio Lower Upper

105 100

120 50.2

39.8

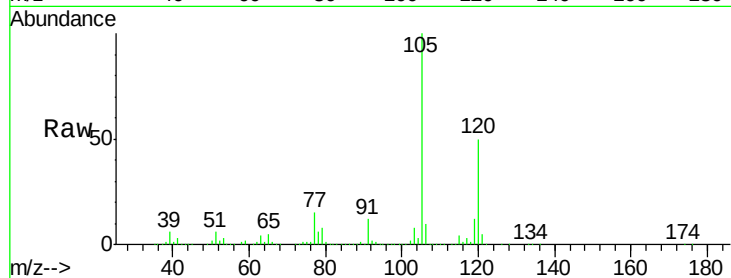
59.8

Manual Integrations

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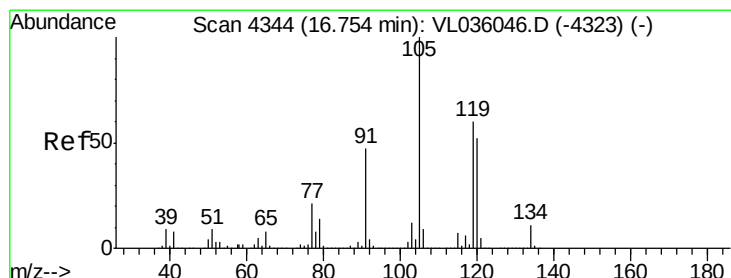
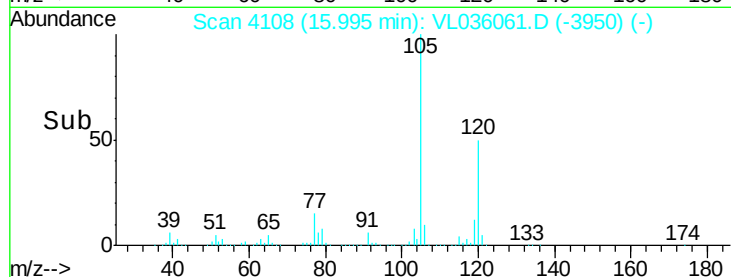
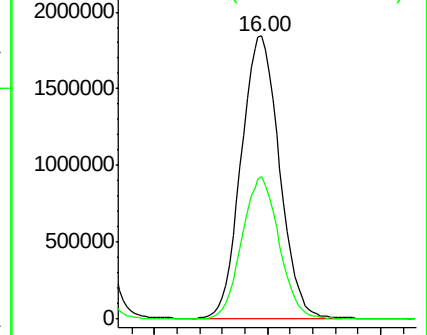
SAM

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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: 10.606 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion:105 Resp: 4537404

Ion Ratio Lower Upper

105 100

120 51.7

41.5

62.3

91 50.0

38.1

57.1

77 21.6

17.0

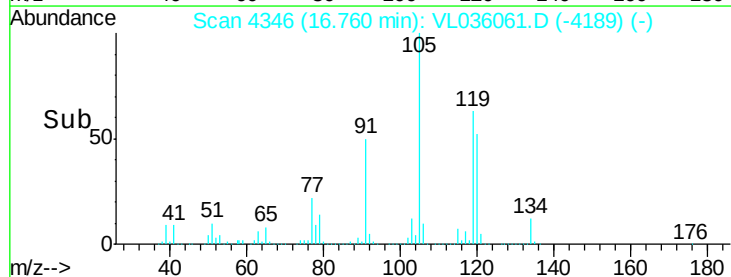
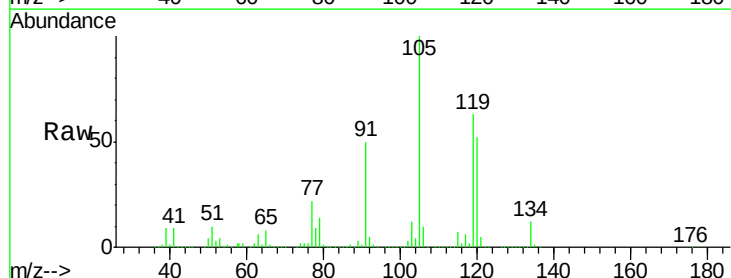
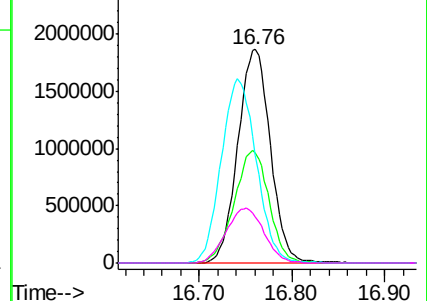
25.4

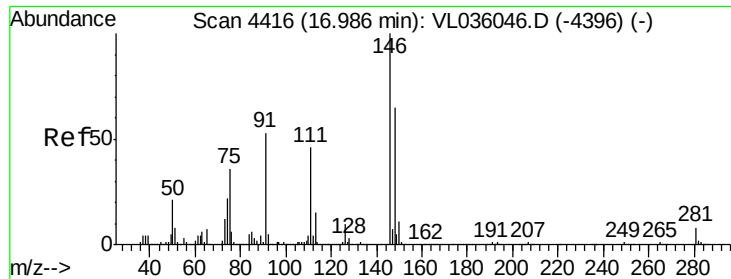
Abundance Ion 105.10 (104.80 to 105.80): V

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





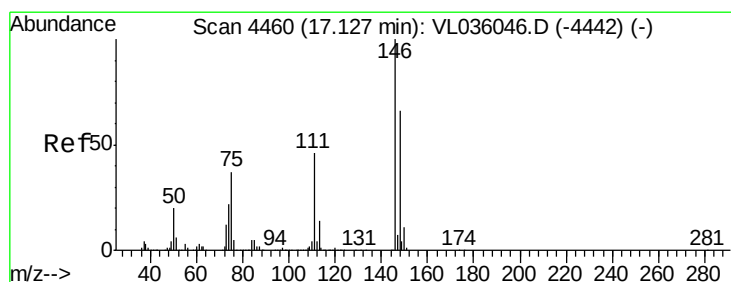
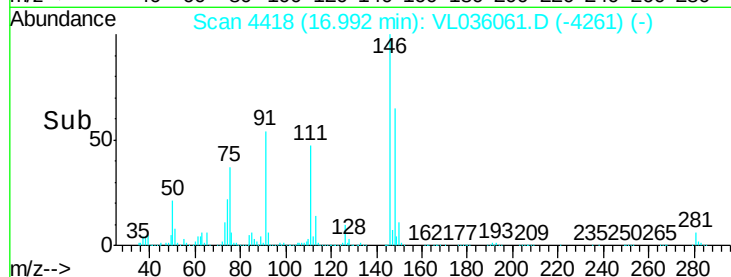
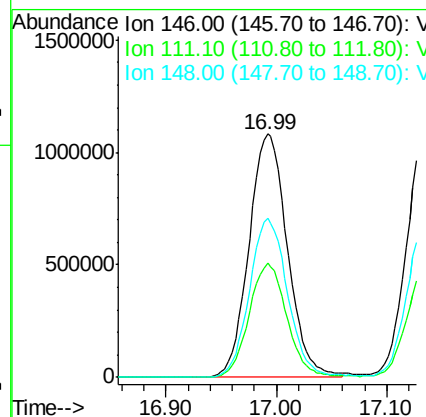
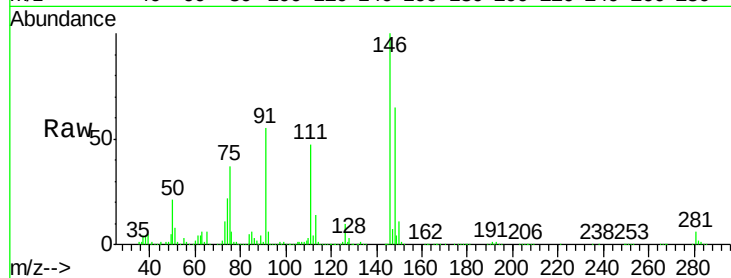
#75  
 1,3-Dichlorobenzene  
 Concen: 10.211 ppbv  
 RT: 16.99 min Scan# 4418  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.3  | 22.9  | 68.7  |
| 148     | 64.6  | 32.4  | 97.0  |

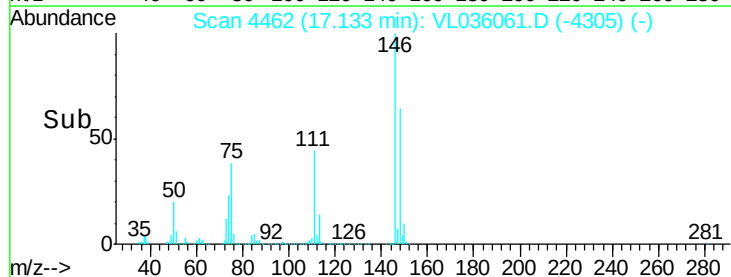
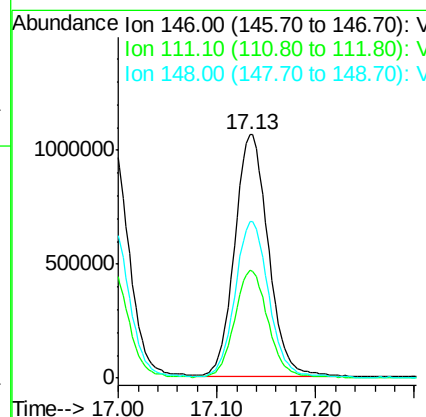
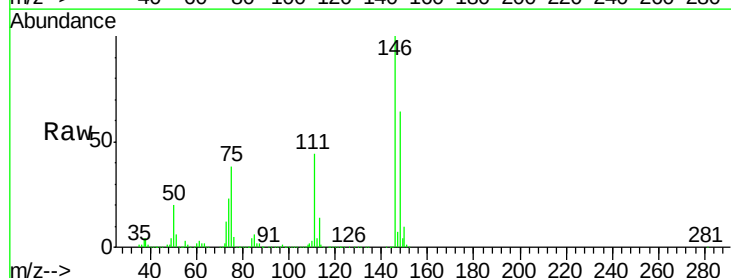
Manual Integrations  
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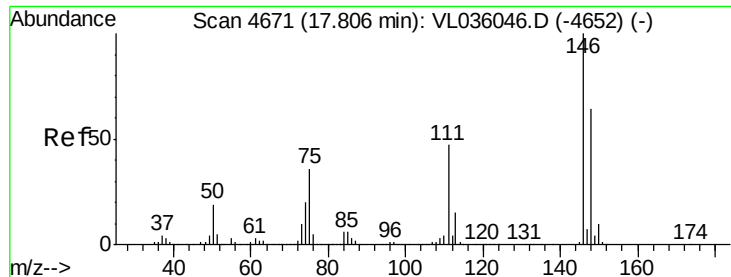
SAM  
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#76  
 1,4-Dichlorobenzene  
 Concen: 10.422 ppbv  
 RT: 17.13 min Scan# 4462  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.3  | 22.4  | 67.2  |
| 148     | 64.9  | 33.0  | 98.9  |





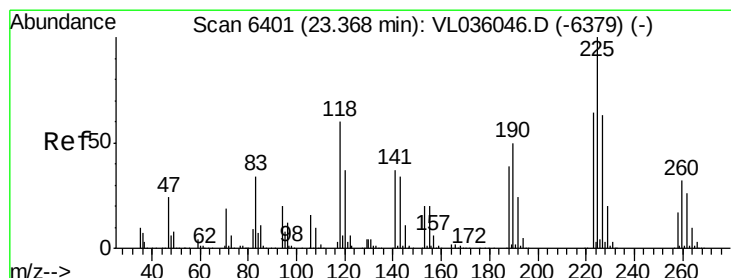
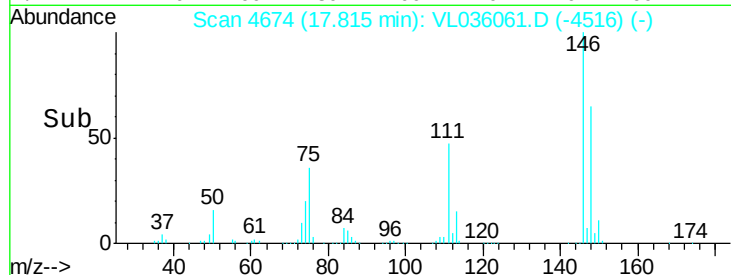
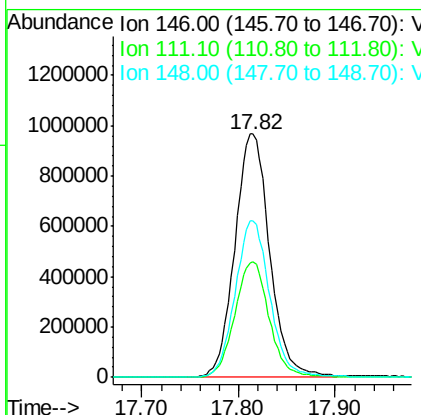
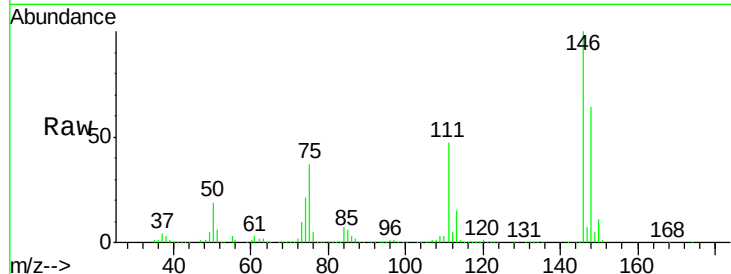
#77  
 1,2-Dichlorobenzene  
 Concen: 10.192 ppbv  
 RT: 17.82 min Scan# 4674  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

Tot Ion:146 Resp: 2409586  
 Ion Ratio Lower Upper  
 146 100  
 111 47.2 23.5 70.6  
 148 64.2 32.5 97.5

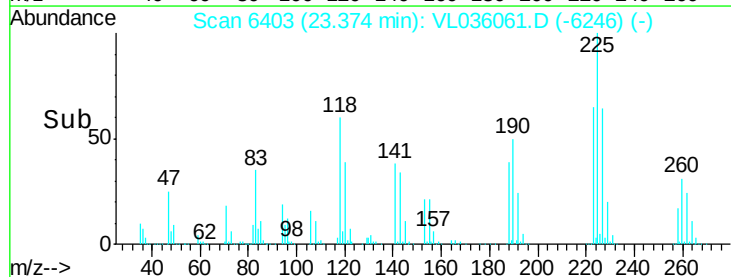
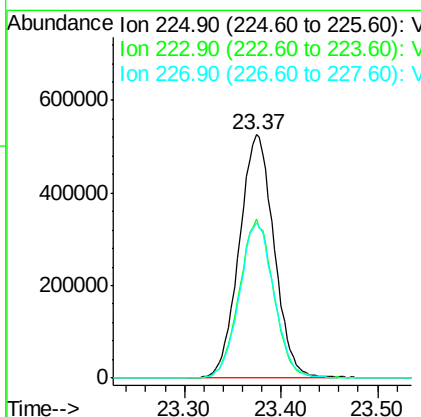
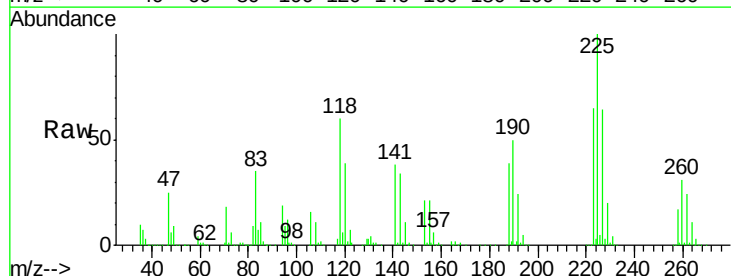
Manual Integrations  
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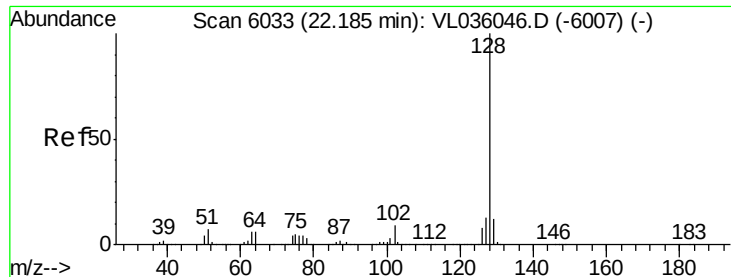
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 10.098 ppbv  
 RT: 23.37 min Scan# 6403  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Tgt Ion:225 Resp: 1316837  
 Ion Ratio Lower Upper  
 225 100  
 223 64.6 51.0 76.4  
 227 63.7 51.2 76.8





#79

Naphthalene

Concen: 13.364 ppbv

RT: 22.20 min Scan# 6037

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Instrument :

MSVOA\_L

ClientSampleId :

VL1203ABS01

Tot Ion:128 Resp: 2729339

Ion Ratio Lower Upper

128 100

127 12.4

129 11.4

10.3 15.5

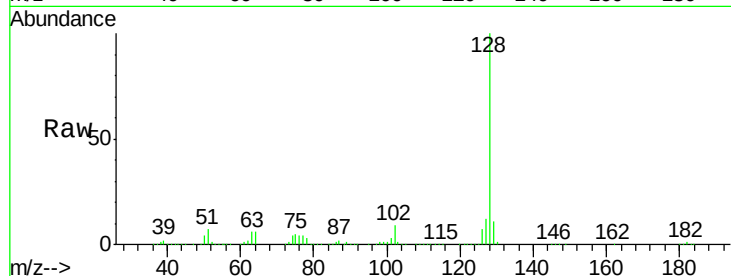
9.3 13.9

Manual Integrations

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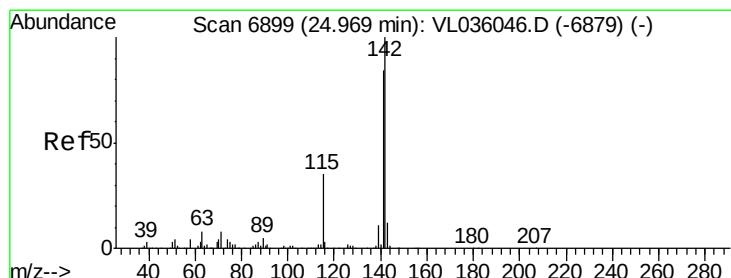
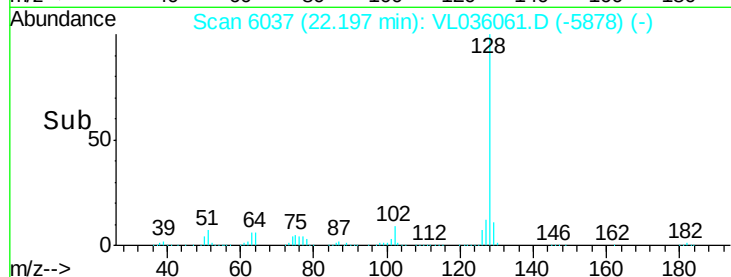
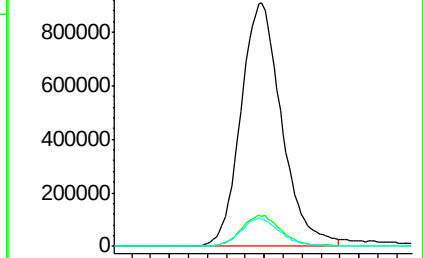
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 17.023 ppbv

RT: 24.98 min Scan# 6901

Delta R.T. 0.01 min

Lab File: VL036061.D

Acq: 3 Dec 2020 21:49

Tgt Ion:142 Resp: 727974

Ion Ratio Lower Upper

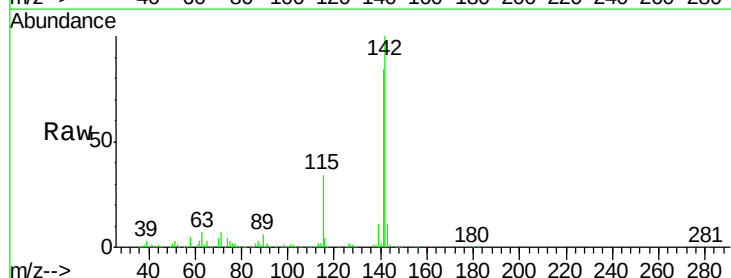
142 100

141 84.0

115 35.4

68.6 103.0

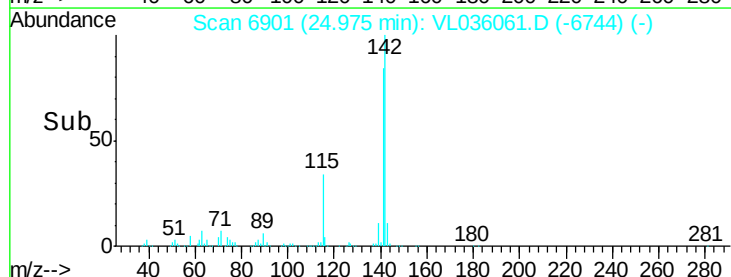
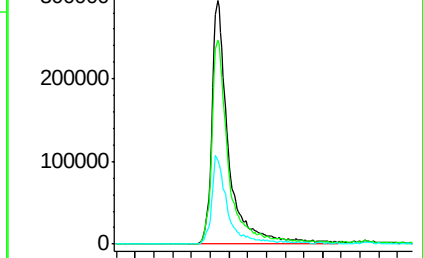
27.9 41.9

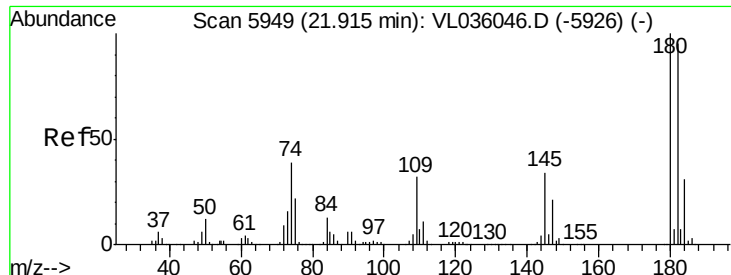


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.655 ppbv  
 RT: 21.92 min Scan# 5952  
 Delta R.T. 0.01 min  
 Lab File: VL036061.D  
 Acq: 3 Dec 2020 21:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1203ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.4  | 78.5  | 117.7 |
| 184     | 31.7  | 25.0  | 37.6  |

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