

Data File : VL034344.D  
Acq On : 24 Oct 2019 13:01  
Operator : SY/AP  
Sample : VL1024ABS01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Quant Time: Oct 25 01:32:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101619AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LThu Oct 17 05:12:37 2019  
QLast Update : Thu Oct 17 05:12:37 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1107109  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 2236559  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.15 | 117  | 2436040  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.48  | 95    | 1941808  | 9.41     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.10% |

#### Target Compounds

|                                |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85  | 1864322 | 9.768  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.96 | 51  | 1122965 | 8.654  | ppbv   | 100    |
| 4) Chloromethane               | 3.12 | 50  | 680816  | 8.870  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.24 | 62  | 628814  | 8.591  | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94  | 332435  | 9.276  | ppbv   | 96     |
| 7) Chloroethane                | 3.54 | 64  | 228895  | 8.886  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 1444834 | 8.736  | ppbv   | 98     |
| 9) Propene                     | 2.99 | 41  | 515531  | 8.962  | ppbv   | 98     |
| 10) Heptane                    | 8.16 | 43  | 1410624 | 9.554  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101 | 1617147 | 8.924  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1093035 | 9.207  | ppbv   | 99     |
| 13) Ethanol                    | 3.59 | 45  | 85981   | 6.676  | ppbv   | 98     |
| 14) Bromoethene                | 3.73 | 108 | 443120  | 9.480  | ppbv   | 97     |
| 15) Acetone                    | 3.84 | 43  | 1204226 | 7.605  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.31 | 39  | 589125  | 9.156  | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 838295  | 8.294  | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 484428  | 9.320  | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 680260  | 7.701  | ppbv # | 99     |
| 20) Methylene Chloride         | 4.34 | 84  | 435872  | 7.614  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.41 | 41  | 838016  | 9.573  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 496557  | 9.577  | ppbv   | 99     |
| 23) Vinyl Acetate              | 5.08 | 43  | 1837553 | 9.292  | ppbv   | 98     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1314843 | 8.959  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.69 | 43  | 2347539 | 8.781  | ppbv   | 99     |
| 26) Hexane                     | 5.70 | 57  | 1020557 | 8.956  | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.55 | 76  | 1257061 | 10.626 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1670783 | 9.688  | ppbv   | 99     |
| 29) Chloroform                 | 5.77 | 83  | 1622635 | 9.002  | ppbv   | 99     |
| 30) Cyclohexane                | 7.16 | 84  | 814746  | 9.722  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1084586 | 9.379  | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane      | 6.54 | 97  | 1605557 | 9.160  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 1578317 | 8.634  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.05 | 117 | 1692926 | 8.690  | ppbv   | 99     |
| 36) Benzene                    | 6.92 | 78  | 1925468 | 8.973  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.33 | 62  | 1379102 | 8.623  | ppbv   | 100    |
| 38) Trichloroethene            | 7.87 | 130 | 758282  | 8.806  | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.65 | 63  | 811647  | 8.784  | ppbv   | 99     |
| 40) 1,4-Dioxane                | 7.87 | 88  | 275007  | 8.469  | ppbv   | 77     |
| 41) Tetrahydrofuran            | 6.07 | 42  | 923141  | 9.099  | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.83 | 83  | 1773308 | 9.053  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.05 | 69  | 828860  | 9.339  | ppbv   | 97     |

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Instrument :  
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VL1024ABS01

Quant Time: Oct 25 01:32:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101619AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LThu Oct 17 05:12:37 2019  
QLast Update : Thu Oct 17 05:12:37 2019  
Response via : Initial Calibration

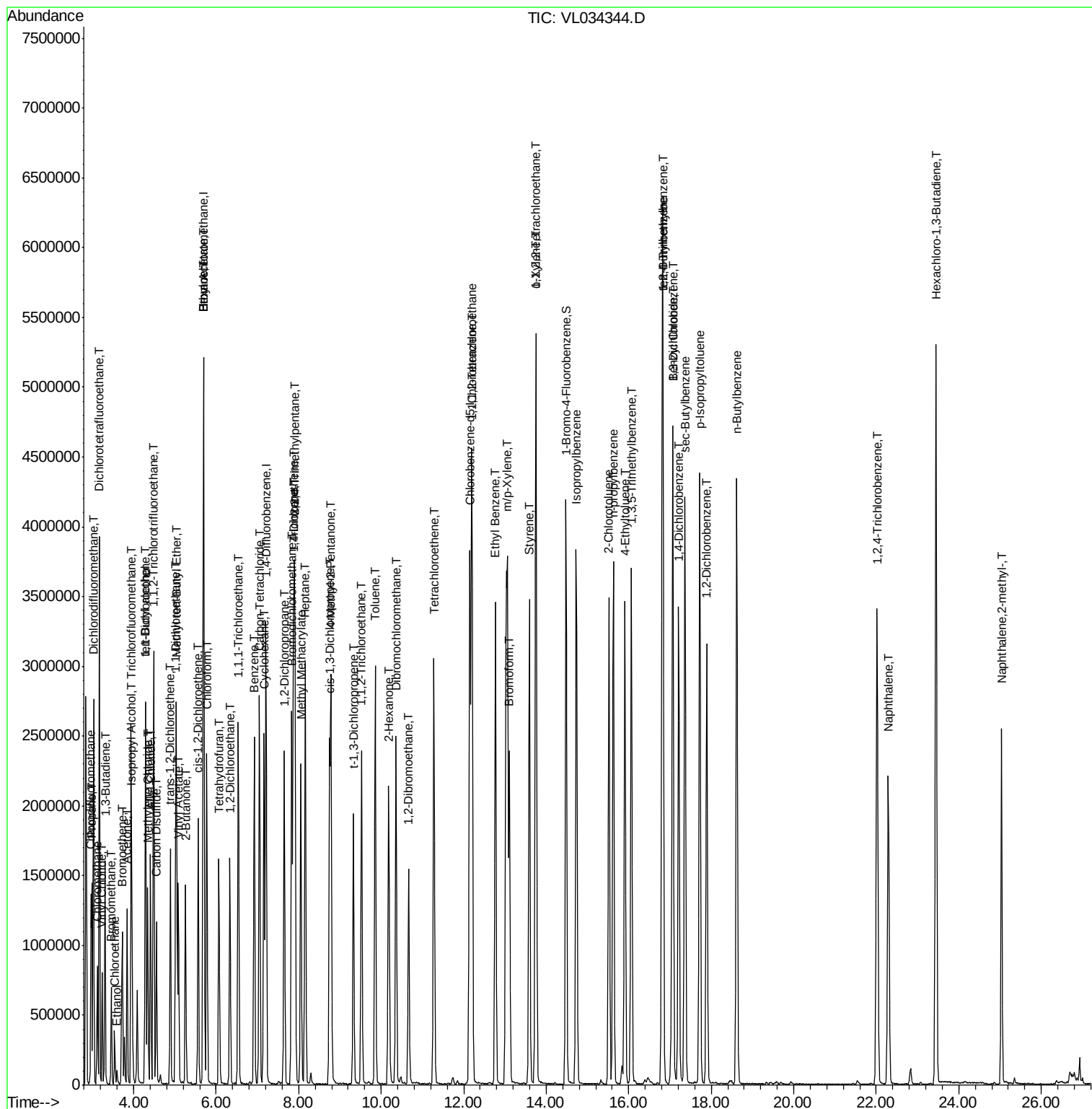
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.90  | 57   | 3440480  | 8.662  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.32  | 75   | 1135971  | 10.505 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.75  | 75   | 1267252  | 10.201 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.52  | 97   | 816219   | 8.721  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.36 | 129  | 1470897  | 9.580  | ppbv   | 99       |
| 49) Bromoform                 | 13.10 | 173  | 1321327  | 9.712  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 2351795  | 8.986  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.18 | 43   | 2009041  | 9.365  | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.28 | 164  | 727074   | 8.644  | ppbv   | 96       |
| 53) Toluene                   | 9.85  | 91   | 2233949  | 9.433  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.67 | 107  | 1252907  | 9.032  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.18 | 131  | 977088   | 8.703  | ppbv # | 61       |
| 57) Chlorobenzene             | 12.20 | 112  | 1690243  | 8.317  | ppbv # | 96       |
| 58) Ethyl Benzene             | 12.77 | 91   | 3062088  | 8.992  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.06 | 91   | 2460177  | 8.338  | ppbv # | 28       |
| 60) o-Xylene                  | 13.75 | 91   | 2554445  | 8.694  | ppbv   | 99       |
| 61) Styrene                   | 13.59 | 104  | 1933563  | 9.348  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.73 | 105  | 3338051  | 8.607  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.74 | 83   | 1764332  | 7.473  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.63 | 120  | 870673   | 8.748  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.82 | 119  | 2925861  | 8.512  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.06 | 91   | 1401096  | 10.320 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.36 | 105  | 4069857  | 8.413  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.72 | 119  | 3386355  | 8.587  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.62 | 91   | 3591430  | 8.370  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.52 | 91   | 2612938  | 8.689  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.91 | 105  | 2922577  | 8.849  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.07 | 105  | 2808843  | 8.584  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.83 | 105  | 2855297  | 8.367  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.07 | 146  | 1627030  | 7.941  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.21 | 146  | 1645753  | 8.224  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.89 | 146  | 1581995  | 7.876  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.45 | 225  | 1456359  | 8.765  | ppbv   | 99       |
| 79) Naphthalene               | 22.29 | 128  | 2761845  | 11.080 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.04 | 142  | 1334362  | 18.519 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 22.02 | 180  | 1619120  | 9.945  | ppbv   | 99       |

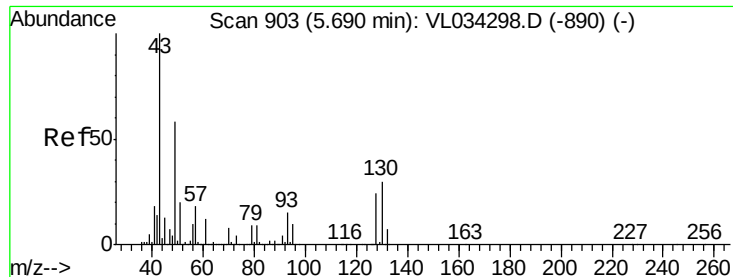
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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Quant Time: Oct 25 01:32:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101619AIR.M  
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

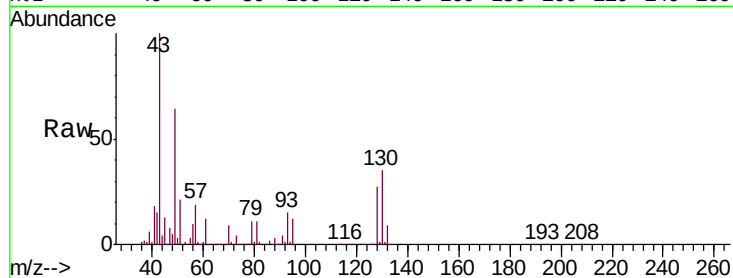
Tgt Ion: 49 Resp: 1107109

Ion Ratio Lower Upper

49 100

128 43.3 20.6 61.8

130 54.7 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

200000

0

5.68

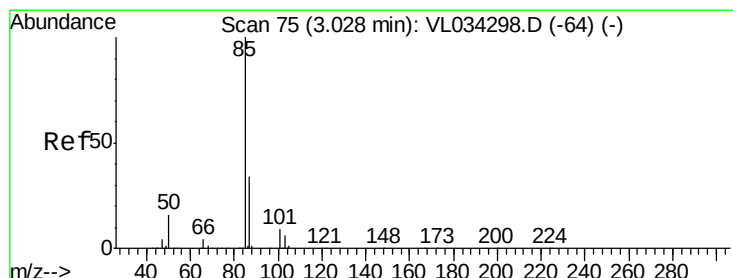
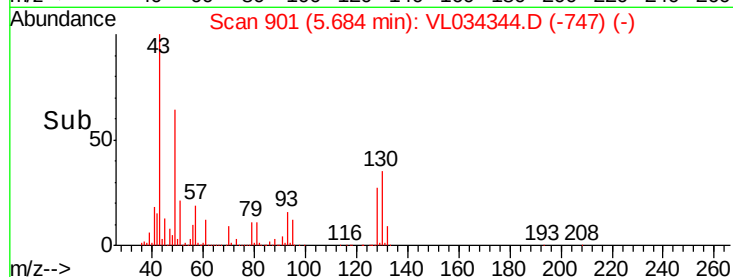
5.60

5.65

5.70

5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 9.768 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL034344.D

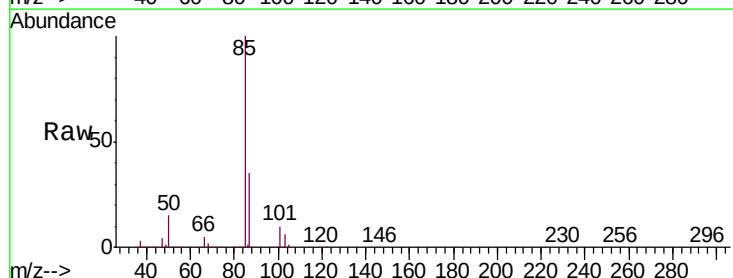
Acq: 24 Oct 2019 13:01

Tgt Ion: 85 Resp: 1864322

Ion Ratio Lower Upper

85 100

87 35.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

1000000

500000

0

3.02

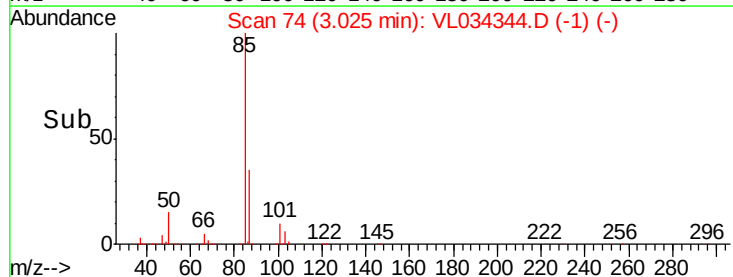
2.95

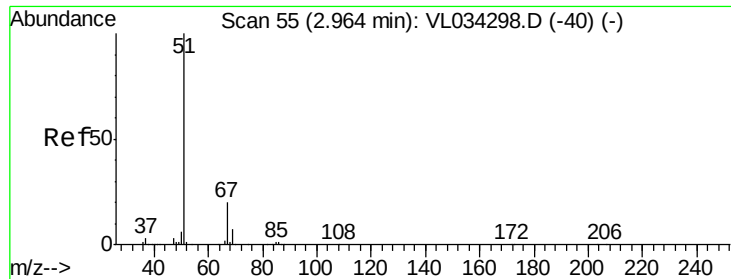
3.00

3.05

3.10

Time-->





#3

Chlorodifluoromethane

Concen: 8.654 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

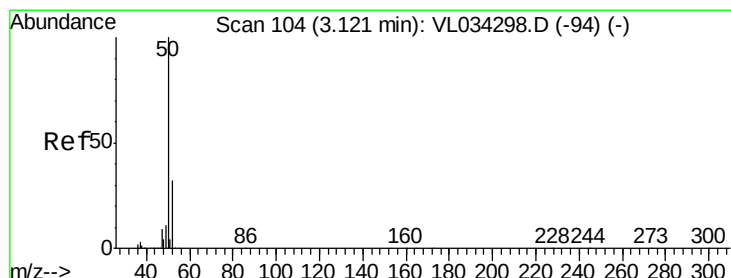
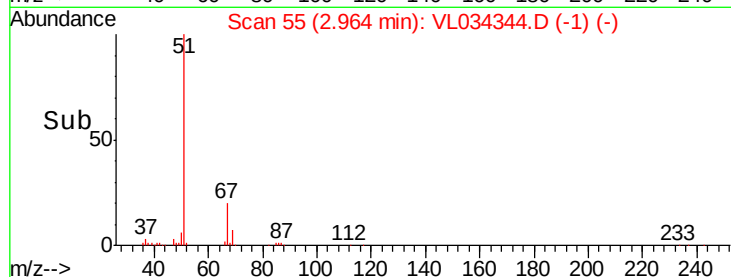
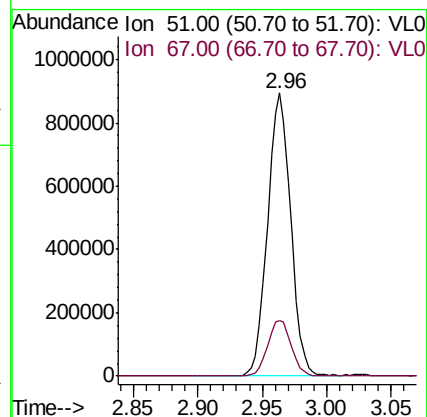
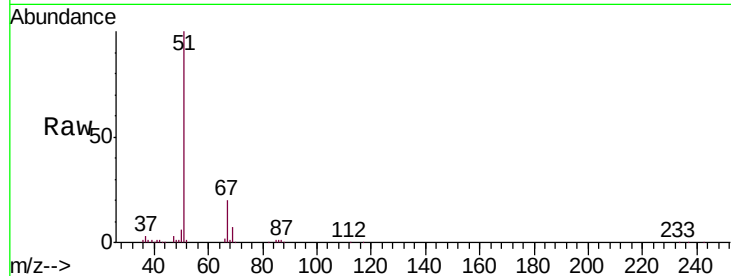
VL1024ABS01

Tgt Ion: 51 Resp: 1122965

Ion Ratio Lower Upper

51 100

67 20.0 15.8 23.8



#4

Chloromethane

Concen: 8.870 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.00 min

Lab File: VL034344.D

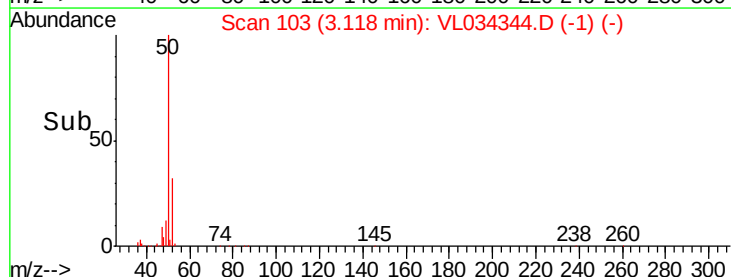
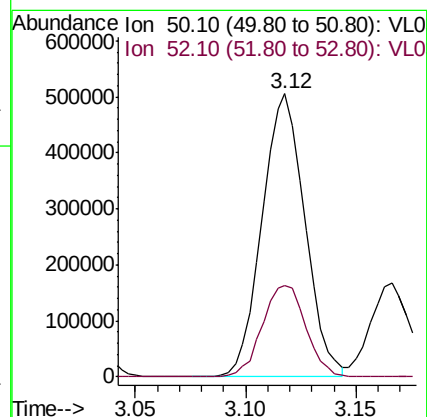
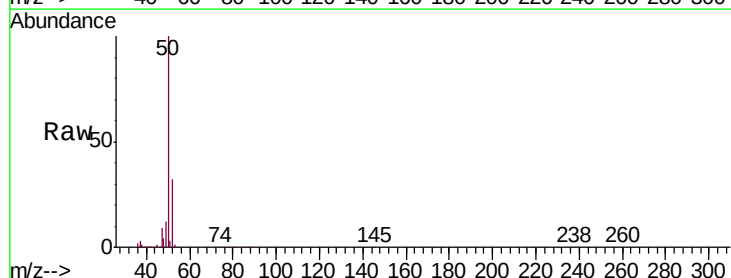
Acq: 24 Oct 2019 13:01

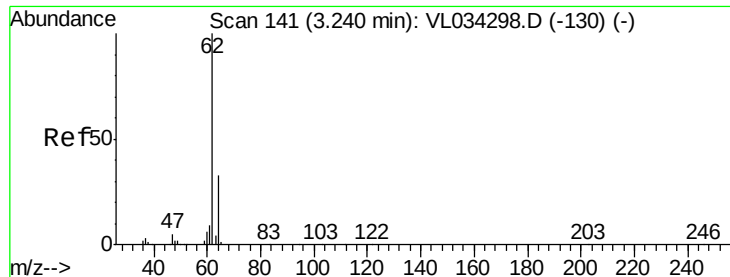
Tgt Ion: 50 Resp: 680816

Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.2





#5

Vinyl Chloride

Concen: 8.591 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

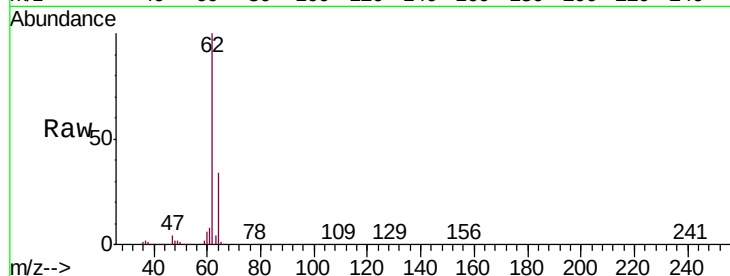
VL1024ABS01

Tgt Ion: 62 Resp: 628814

Ion Ratio Lower Upper

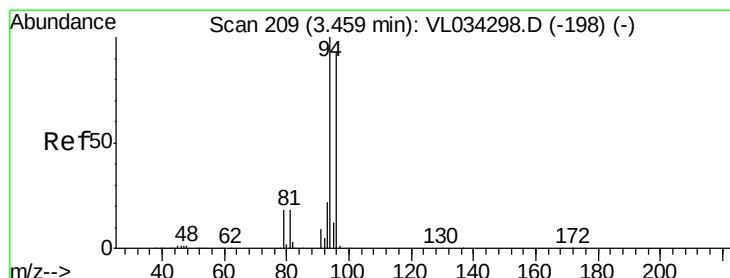
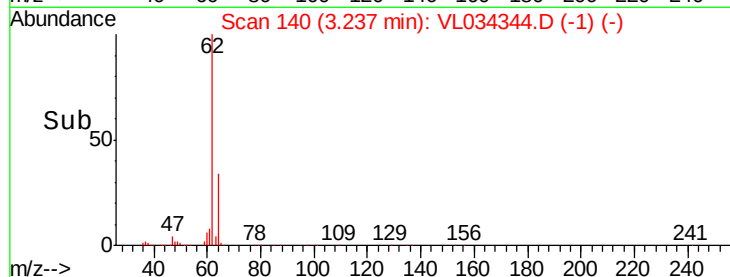
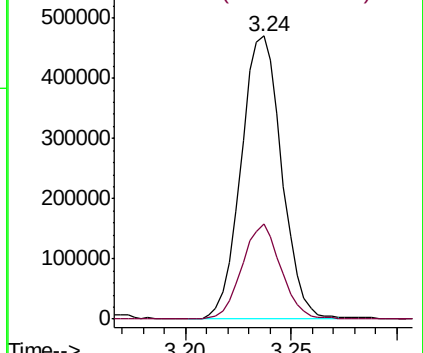
62 100

64 33.6 26.0 39.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.276 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034344.D

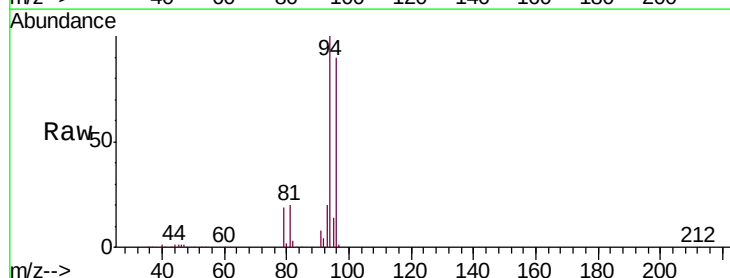
Acq: 24 Oct 2019 13:01

Tgt Ion: 94 Resp: 332435

Ion Ratio Lower Upper

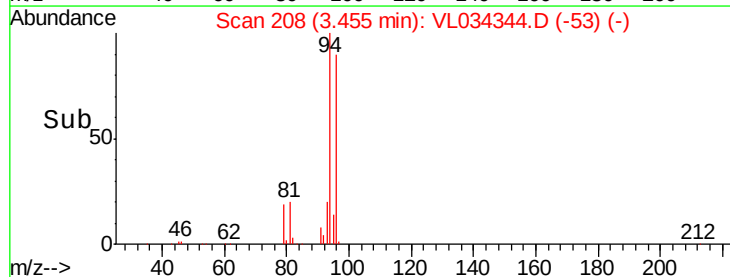
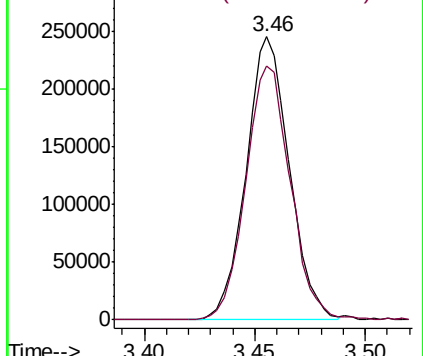
94 100

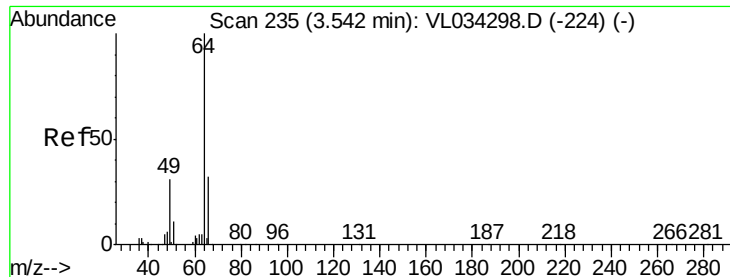
96 89.8 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.886 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.00 min

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MSVOA\_L

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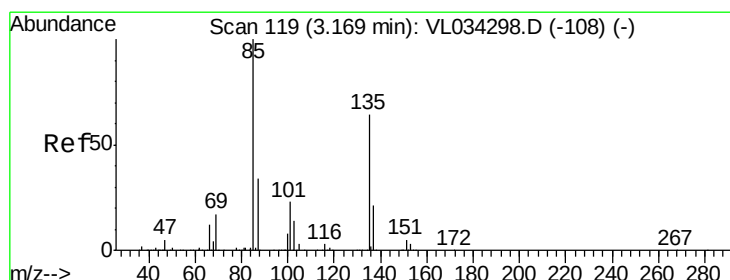
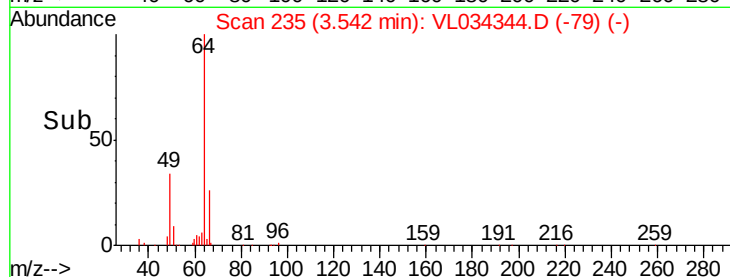
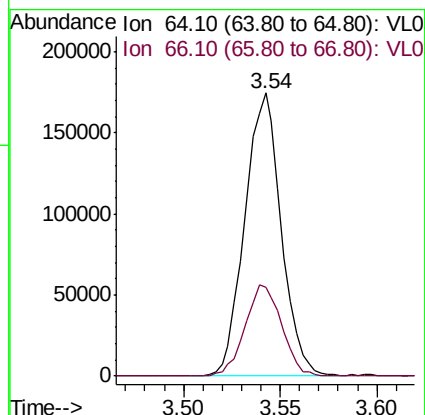
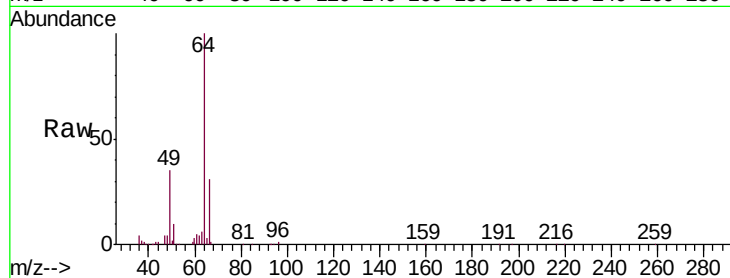
VL1024ABS01

Tgt Ion: 64 Resp: 228895

Ion Ratio Lower Upper

64 100

66 31.4 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 8.736 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL034344.D

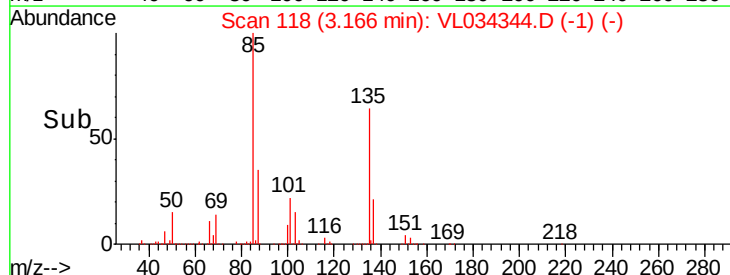
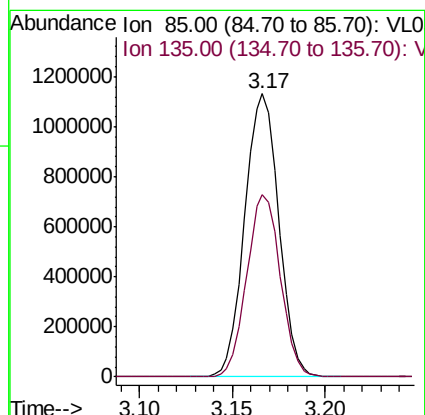
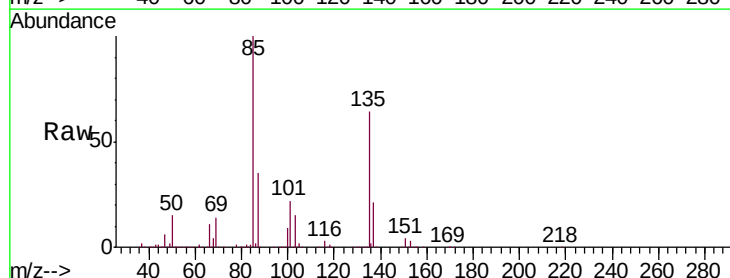
Acq: 24 Oct 2019 13:01

Tgt Ion: 85 Resp: 1444834

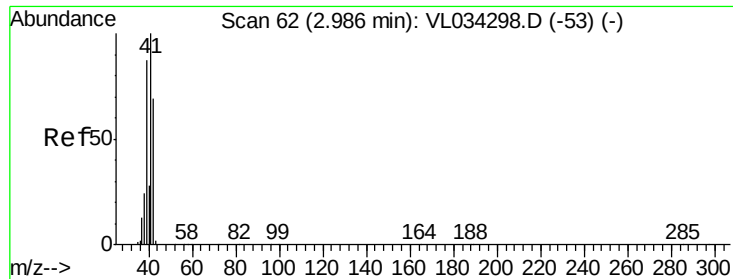
Ion Ratio Lower Upper

85 100

135 64.0 50.2 75.2







#9

Propene

Concen: 8.962 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

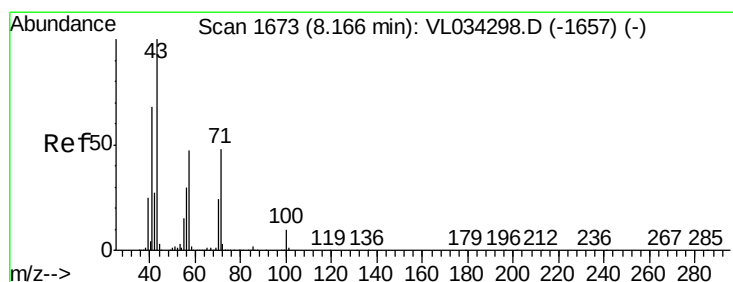
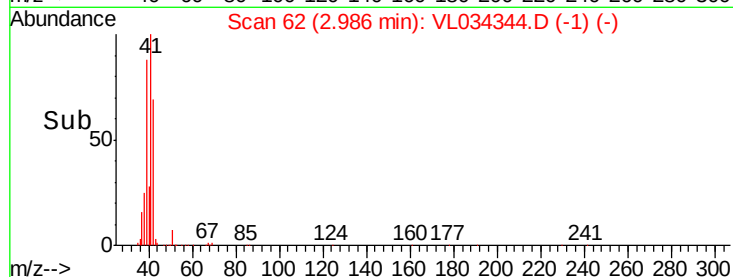
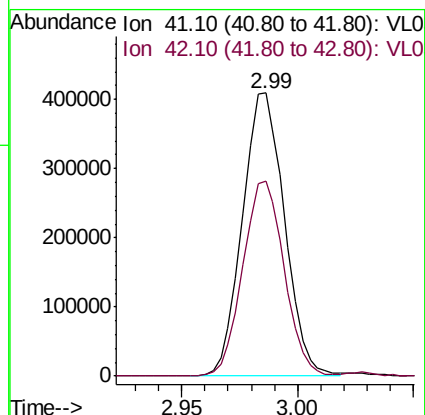
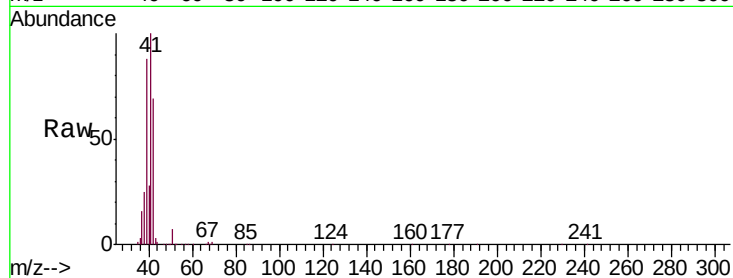
VL1024ABS01

Tgt Ion: 41 Resp: 51531

Ion Ratio Lower Upper

41 100

42 69.0 53.9 80.9



#10

Heptane

Concen: 9.554 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034344.D

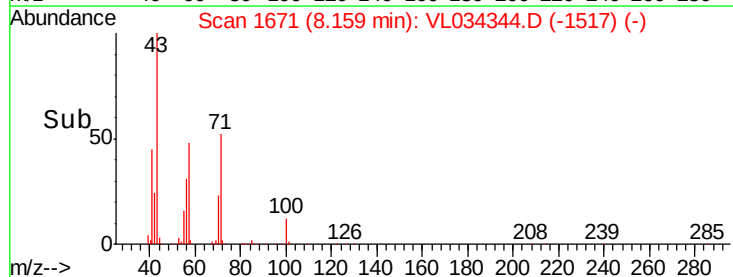
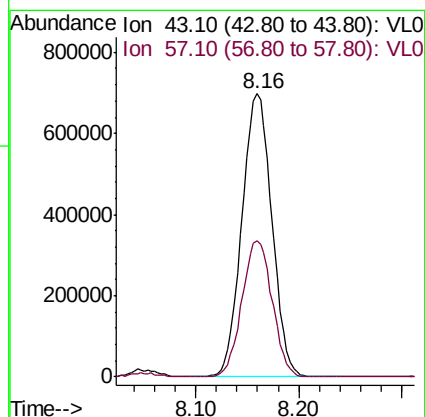
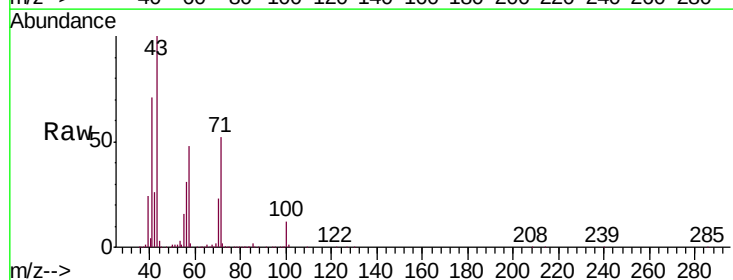
Acq: 24 Oct 2019 13:01

Tgt Ion: 43 Resp: 1410624

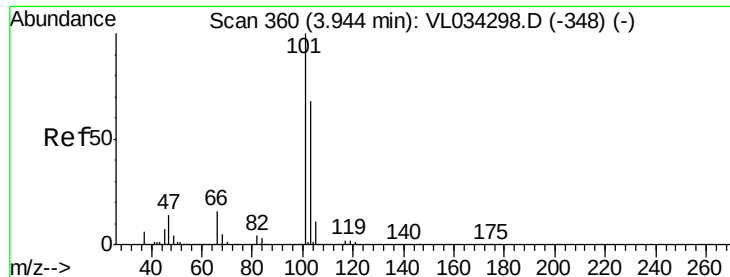
Ion Ratio Lower Upper

43 100

57 48.7 39.5 59.3



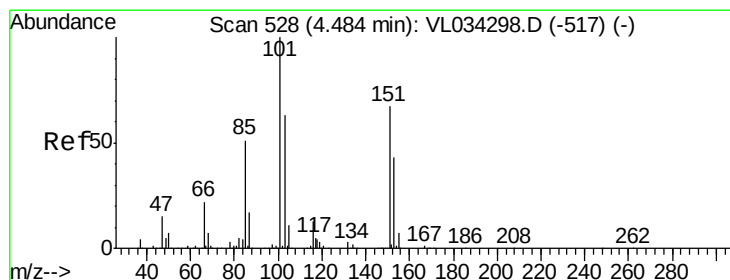
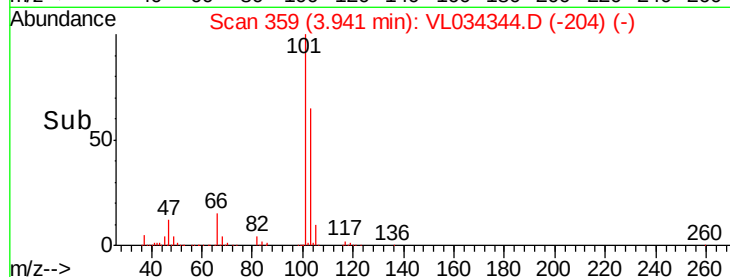
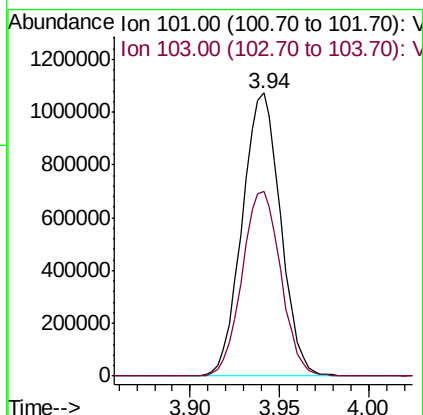
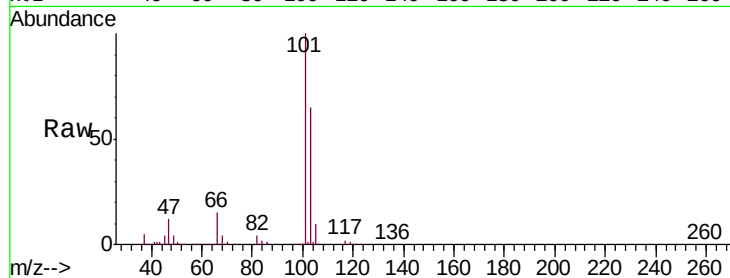




#11  
 Trichlorofluoromethane  
 Concen: 8.924 ppbv  
 RT: 3.94 min Scan# 359  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

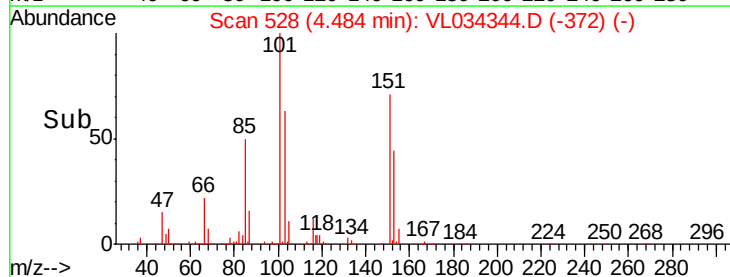
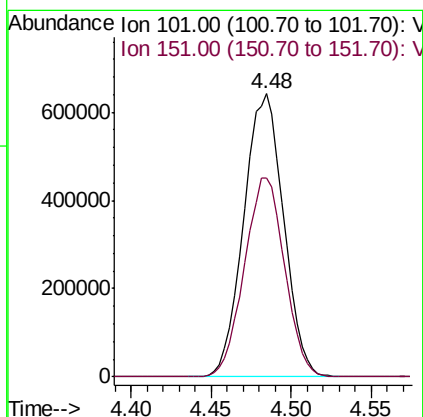
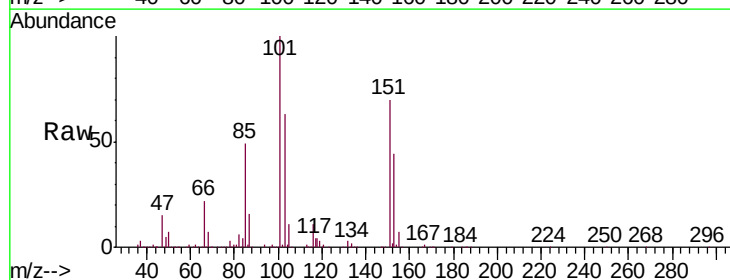
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

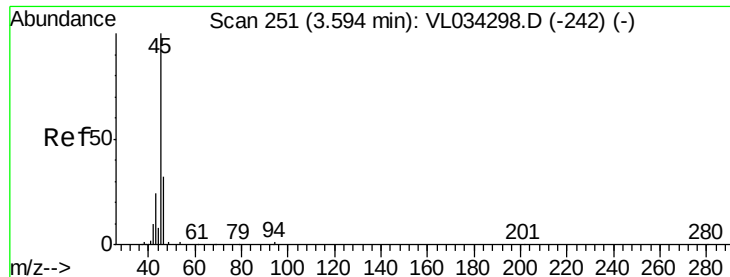
Tgt Ion:101 Resp: 1617147  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 54.5 81.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.207 ppbv  
 RT: 4.48 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion:101 Resp: 1093035  
 Ion Ratio Lower Upper  
 101 100  
 151 71.3 57.4 86.2





#13

Ethanol

Concen: 6.676 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

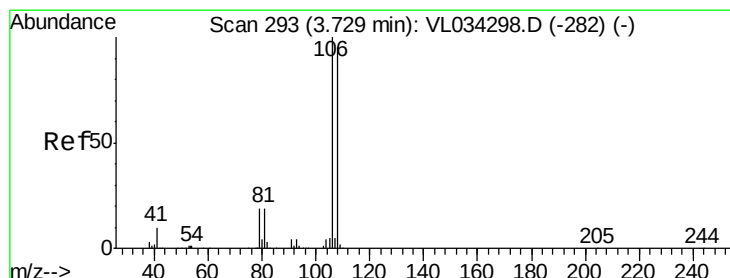
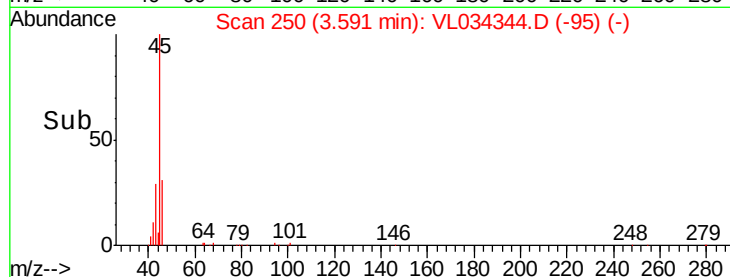
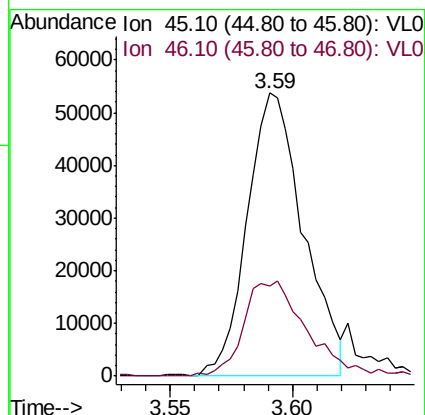
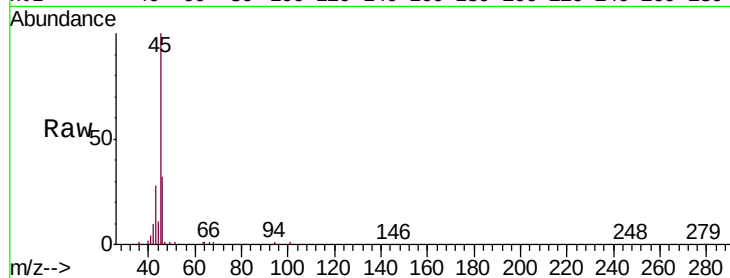
VL1024ABS01

Tgt Ion: 45 Resp: 85981

Ion Ratio Lower Upper

45 100

46 38.3 15.8 63.2



#14

Bromoethene

Concen: 9.480 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

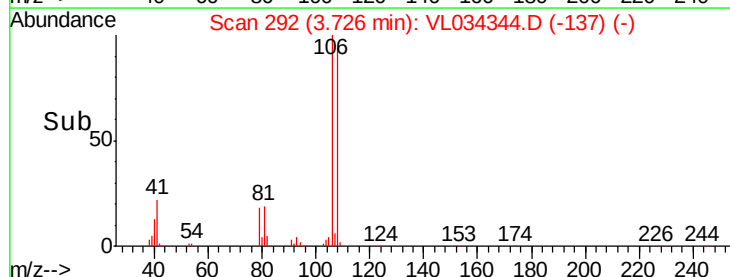
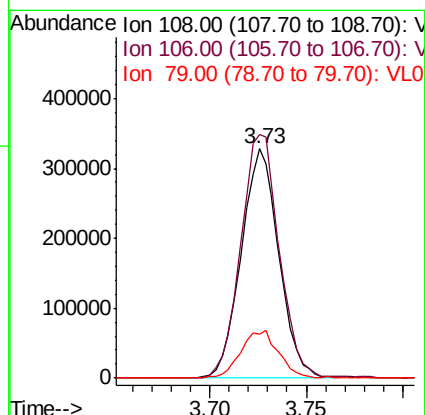
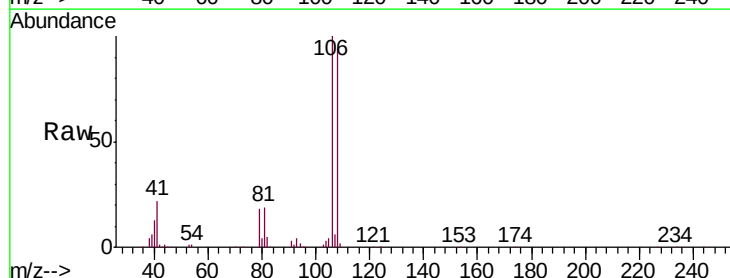
Tgt Ion: 108 Resp: 443120

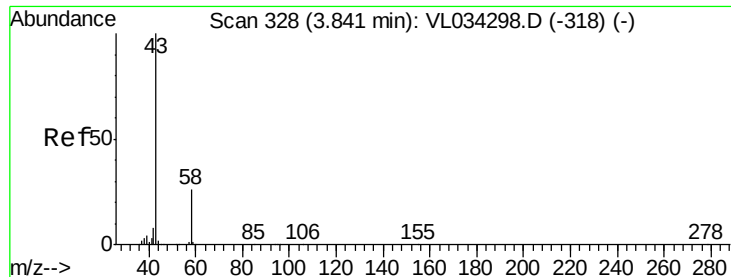
Ion Ratio Lower Upper

108 100

106 109.2 84.8 127.2

79 21.4 17.0 25.4

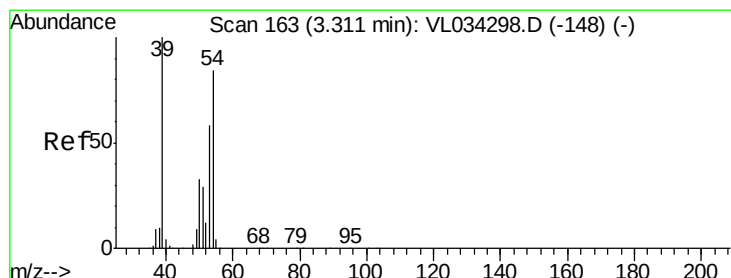
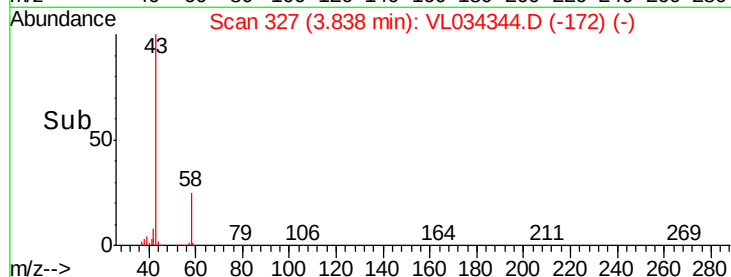
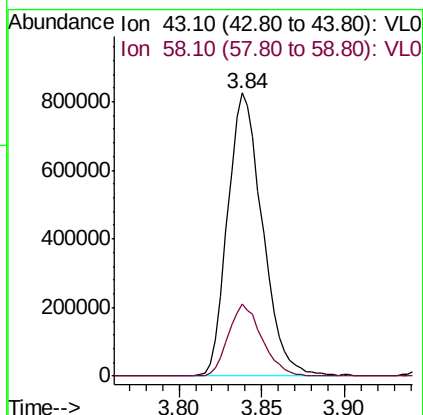
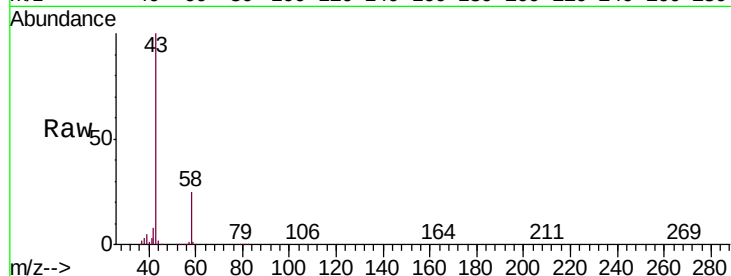




#15  
Acetone  
Concen: 7.605 ppbv  
RT: 3.84 min Scan# 327  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

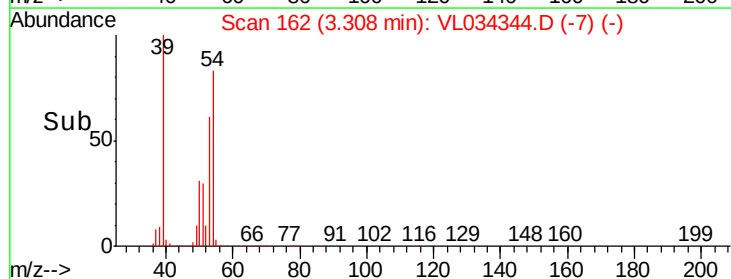
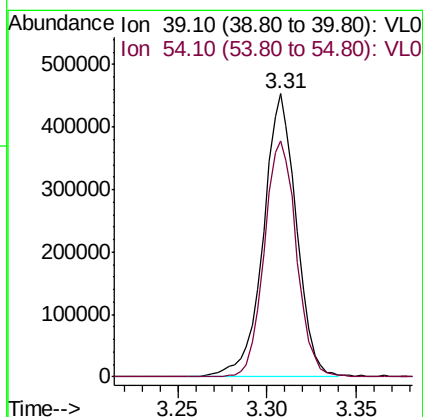
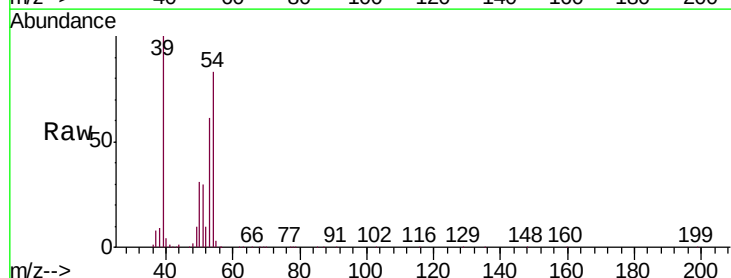
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

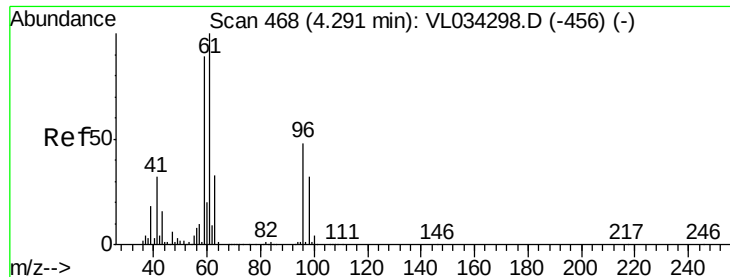
Tgt Ion: 43 Resp: 1204226  
Ion Ratio Lower Upper  
43 100  
58 24.9 20.4 30.6



#16  
1,3-Butadiene  
Concen: 9.156 ppbv  
RT: 3.31 min Scan# 162  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 39 Resp: 589125  
Ion Ratio Lower Upper  
39 100  
54 81.4 63.9 95.9





#17

tert-Butyl alcohol

Concen: 8.294 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

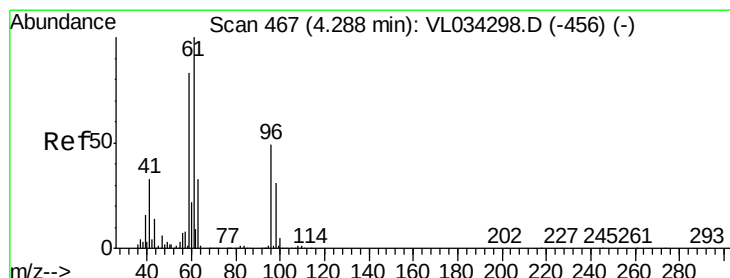
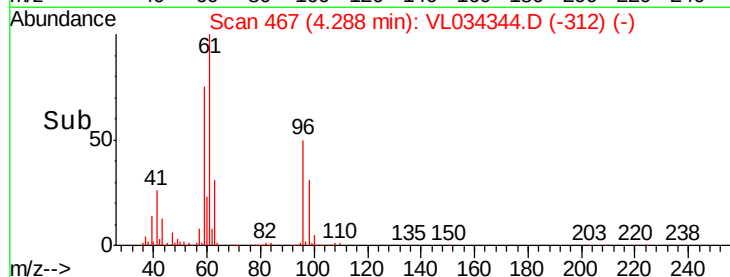
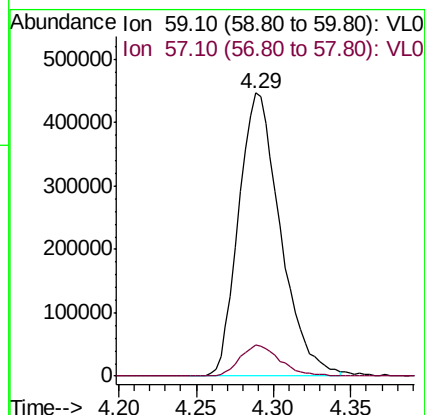
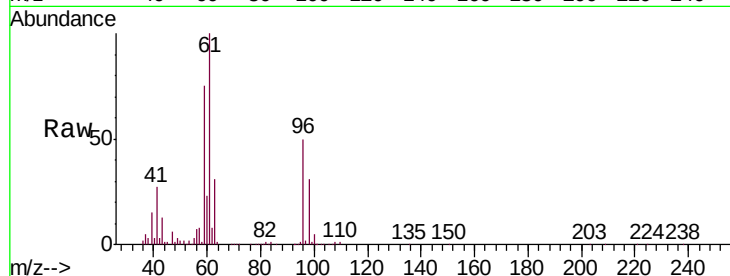
VL1024ABS01

Tgt Ion: 59 Resp: 838295

Ion Ratio Lower Upper

59 100

57 10.8 8.8 13.2



#18

1,1-Dichloroethene

Concen: 9.320 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

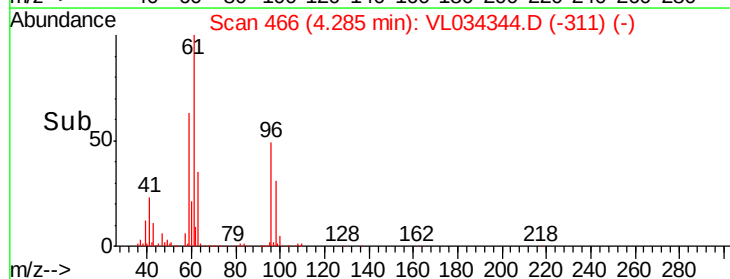
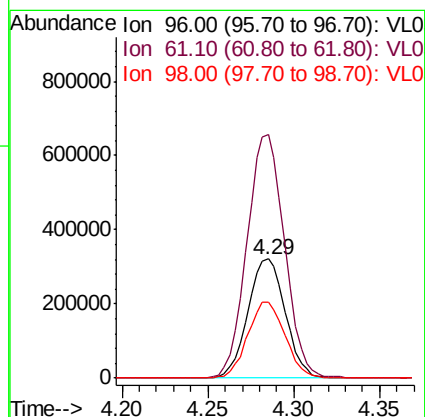
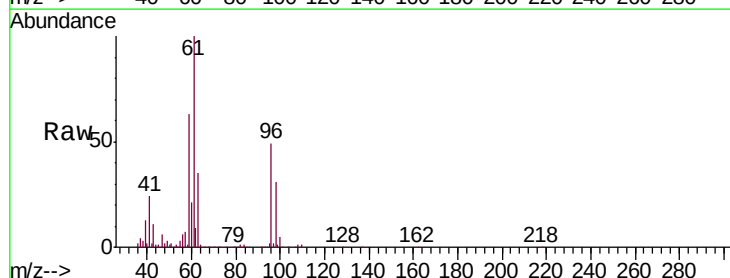
Tgt Ion: 96 Resp: 484428

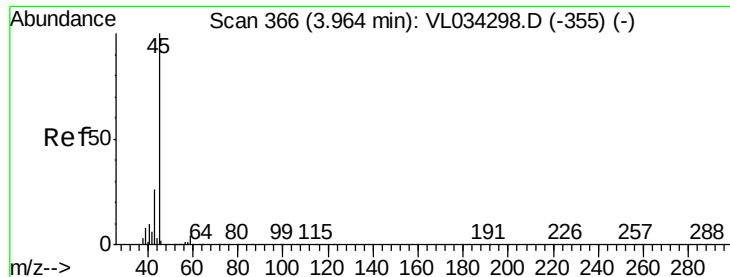
Ion Ratio Lower Upper

96 100

61 204.3 164.5 246.7

98 63.3 51.7 77.5

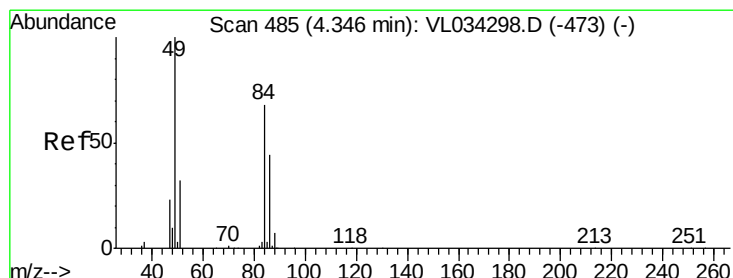
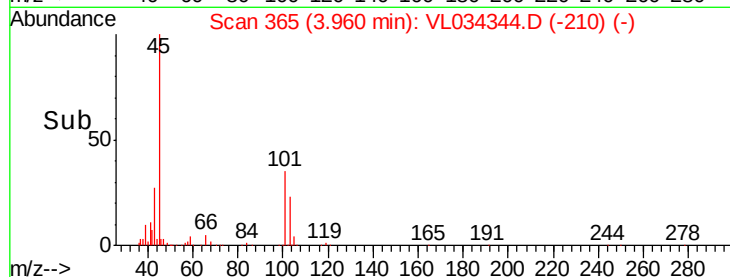
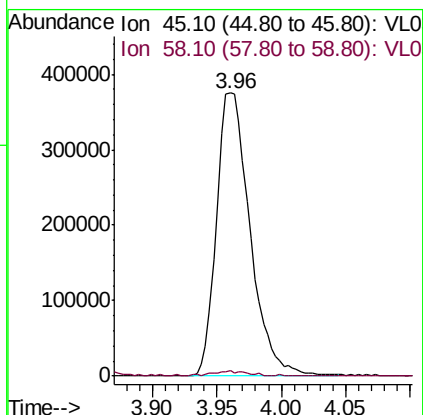
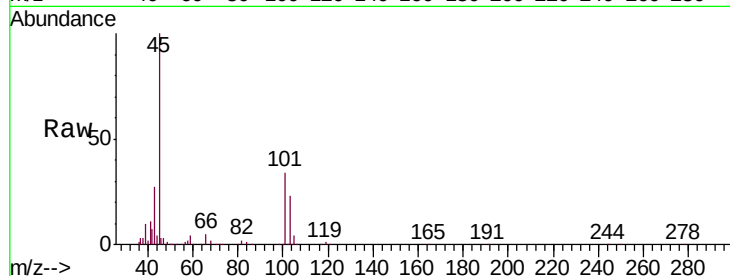




#19  
Isopropyl Alcohol  
Concen: 7.701 ppbv  
RT: 3.96 min Scan# 365  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

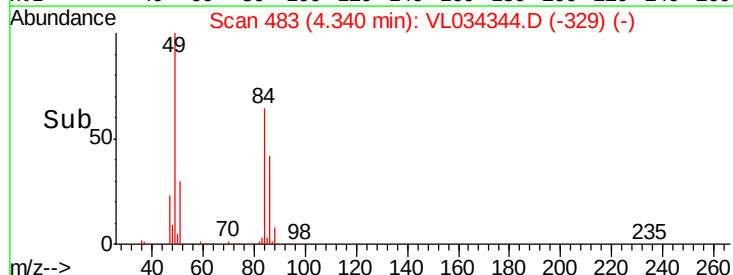
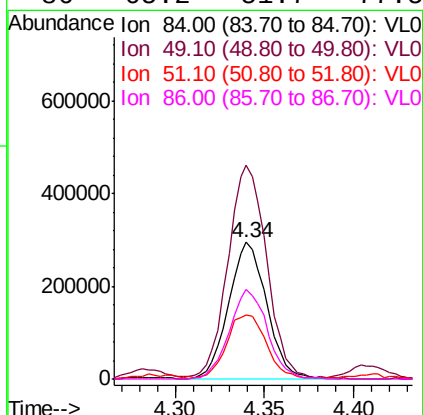
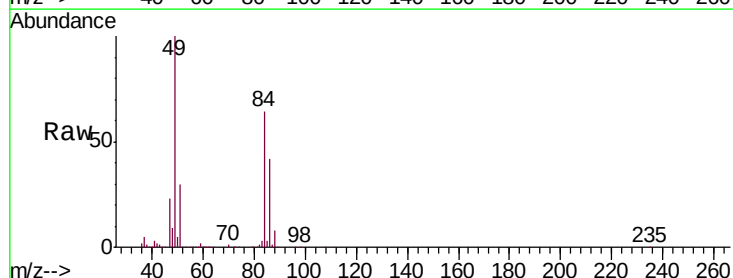
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

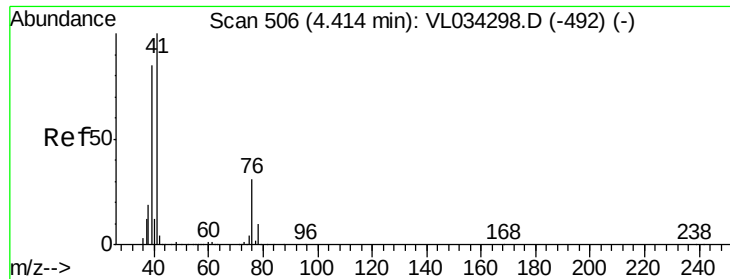
Tgt Ion: 45 Resp: 680260  
Ion Ratio Lower Upper  
45 100  
58 2.3 1.4 2.2#



#20  
Methylene Chloride  
Concen: 7.614 ppbv  
RT: 4.34 min Scan# 483  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 84 Resp: 435872  
Ion Ratio Lower Upper  
84 100  
49 155.4 118.5 177.7  
51 45.4 38.8 58.2  
86 65.2 51.7 77.5

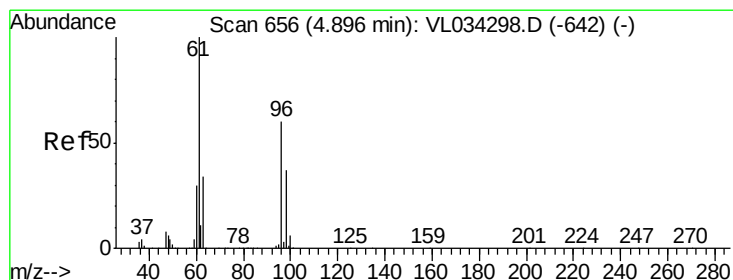
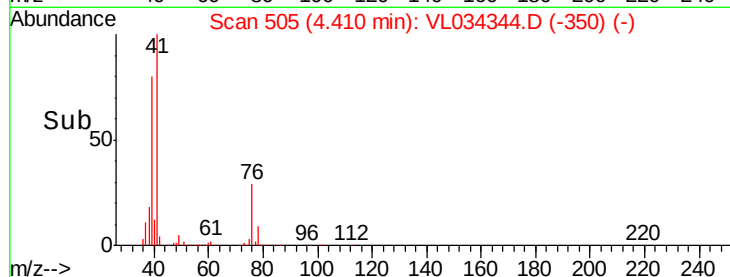
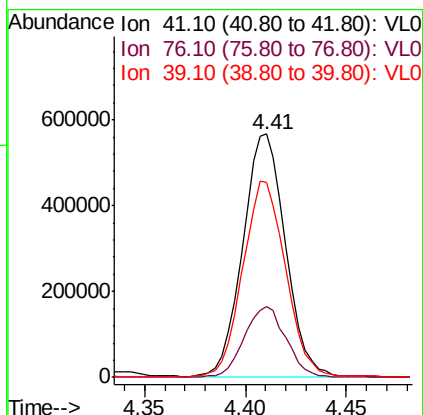
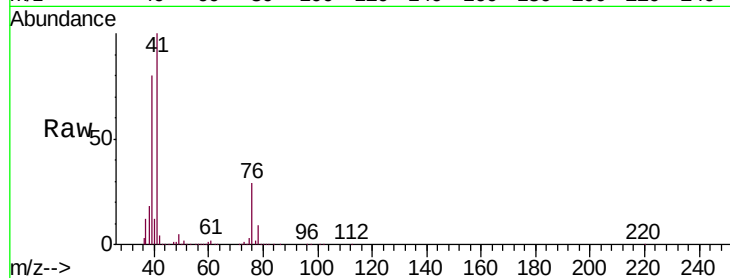




#21  
 Allyl Chloride  
 Concen: 9.573 ppbv  
 RT: 4.41 min Scan# 505  
 Delta R.T. -0.00 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

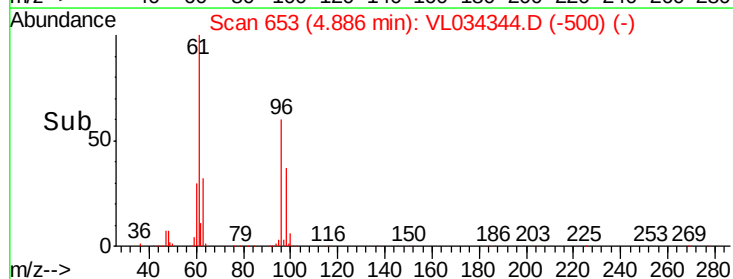
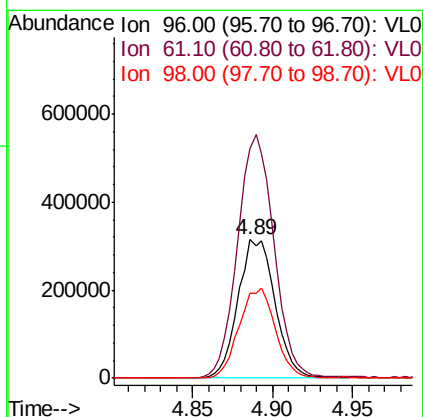
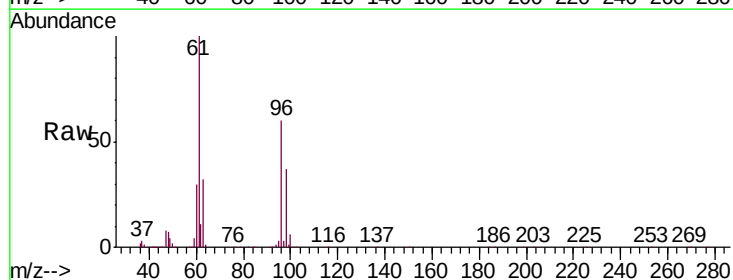
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

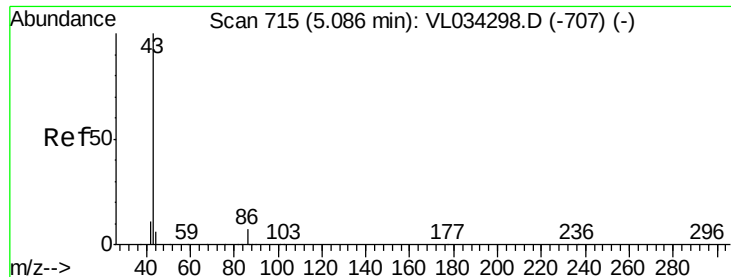
Tgt Ion: 41 Resp: 838016  
 Ion Ratio Lower Upper  
 41 100  
 76 28.8 22.8 34.2  
 39 81.4 66.0 99.0



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.577 ppbv  
 RT: 4.89 min Scan# 653  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 96 Resp: 496557  
 Ion Ratio Lower Upper  
 96 100  
 61 166.0 133.8 200.6  
 98 61.7 49.4 74.0





#23

Vinyl Acetate

Concen: 9.292 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 43 Resp: 1837553

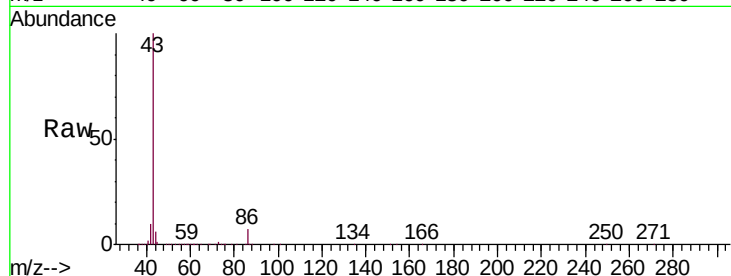
Ion Ratio Lower Upper

43 100

86 7.2 5.0 7.4

42 10.2 8.6 13.0

44 5.7 4.8 7.2

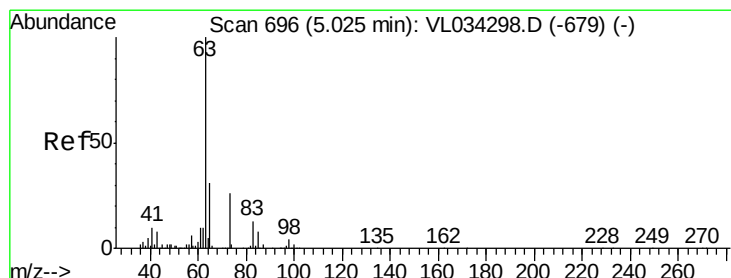
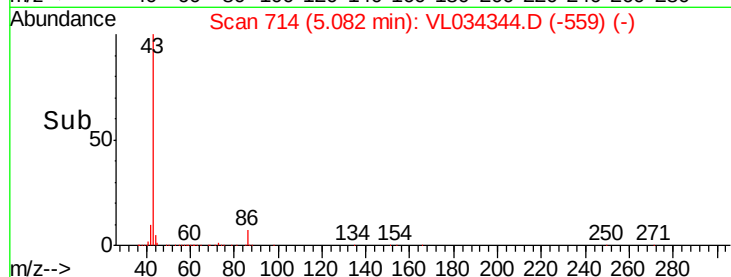
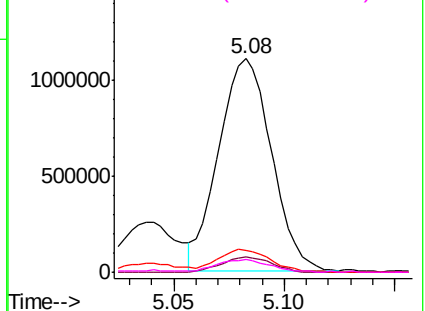


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.959 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

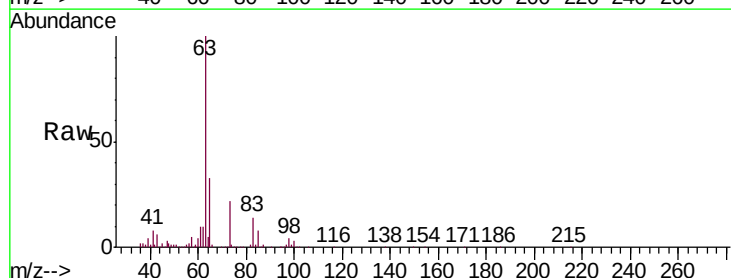
Tgt Ion: 63 Resp: 1314843

Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

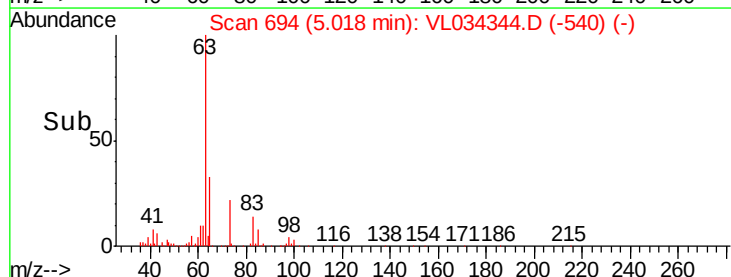
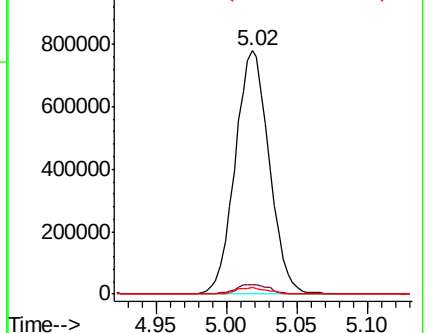
100 2.7 1.1 3.5



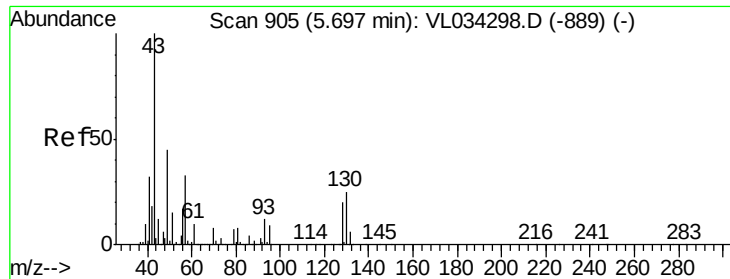
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





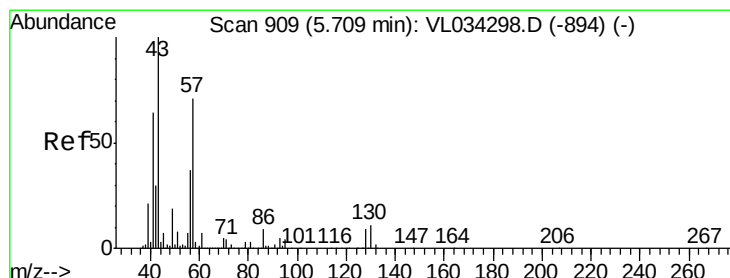
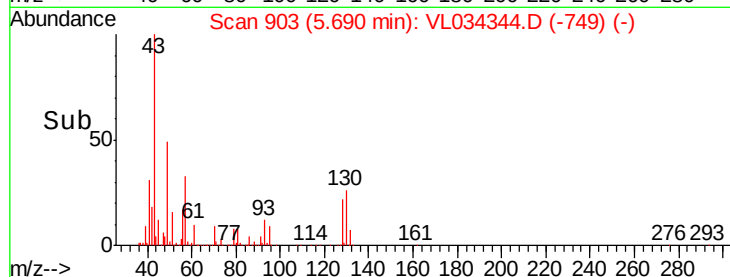
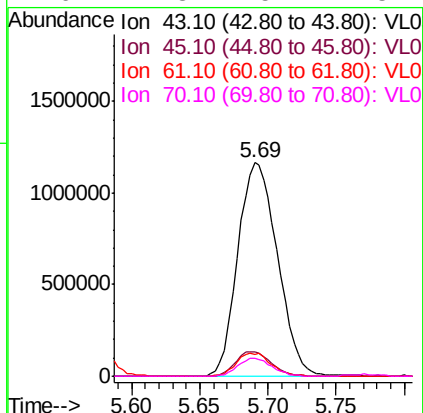
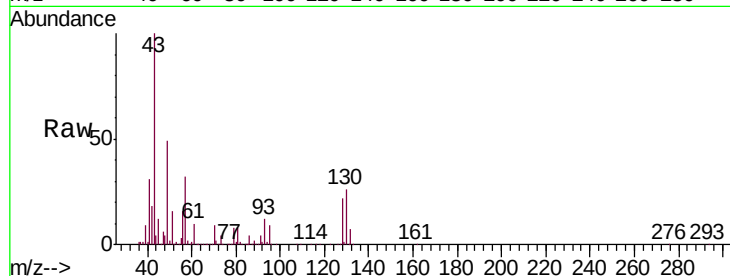


#25  
Ethyl Acetate  
Concen: 8.781 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 43 Resp: 2347539

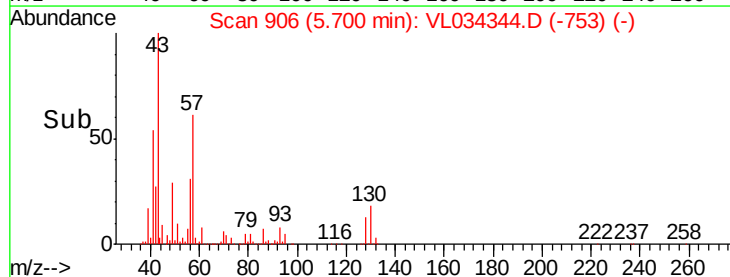
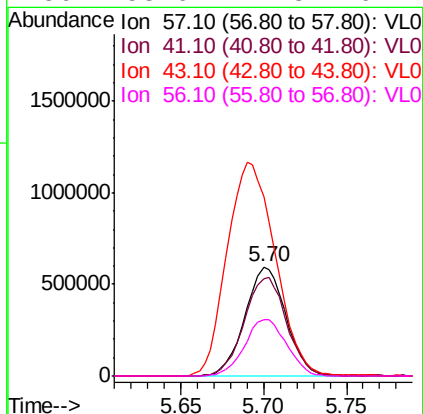
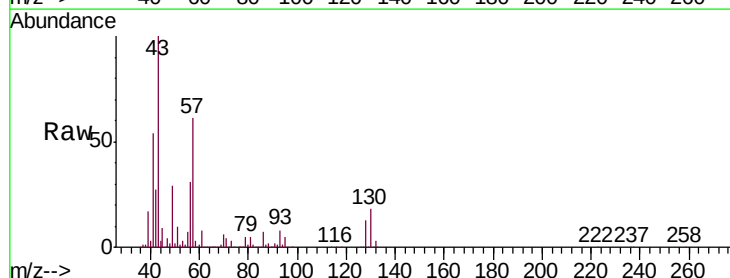
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.3   | 12.5  |
| 61  | 9.6   | 7.7   | 11.5  |
| 70  | 7.3   | 5.4   | 8.2   |

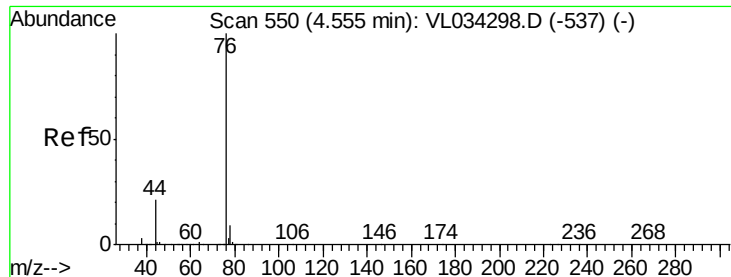


#26  
Hexane  
Concen: 8.956 ppbv  
RT: 5.70 min Scan# 906  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 57 Resp: 1020557

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 94.9  | 76.5  | 114.7 |
| 43  | 230.9 | 188.5 | 282.7 |
| 56  | 53.6  | 42.8  | 64.2  |





#27

Carbon Disulfide

Concen: 10.626 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

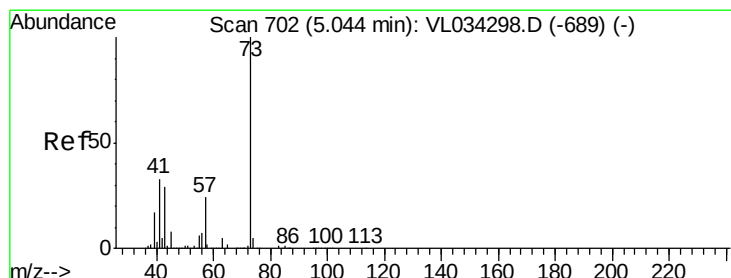
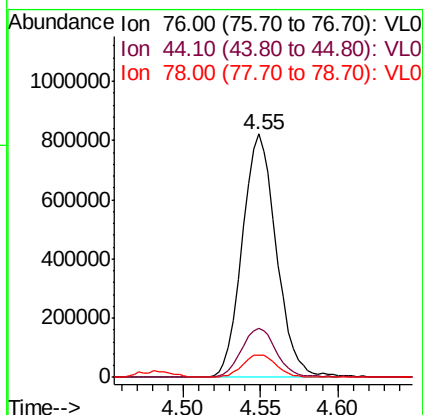
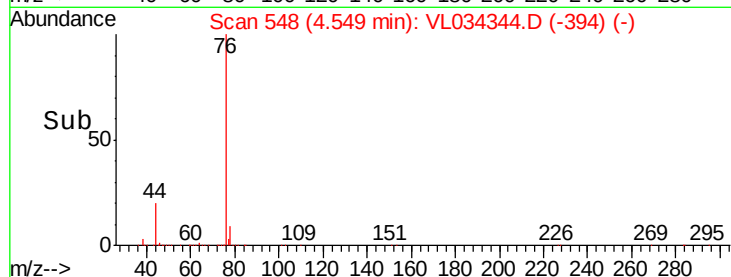
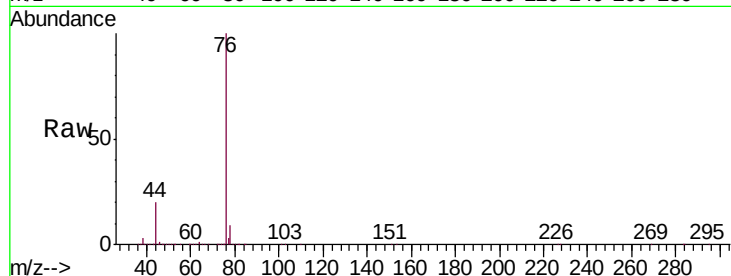
Tgt Ion: 76 Resp: 1257061

Ion Ratio Lower Upper

76 100

44 20.6 17.3 25.9

78 9.4 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 9.688 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL034344.D

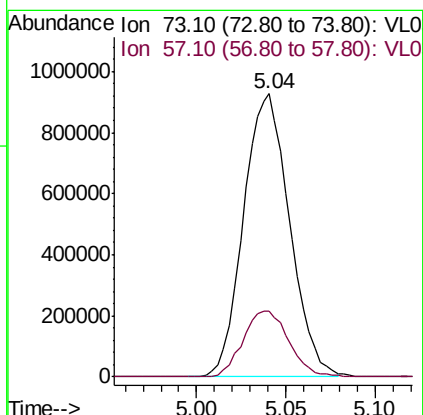
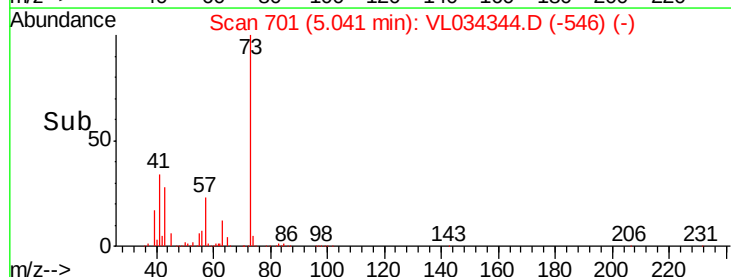
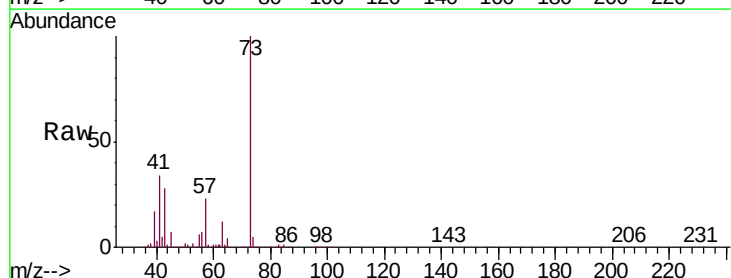
Acq: 24 Oct 2019 13:01

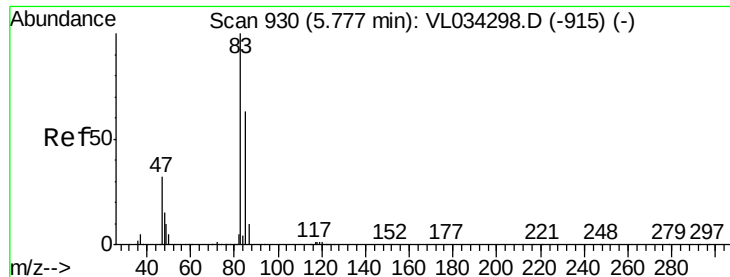
Tgt Ion: 73 Resp: 1670783

Ion Ratio Lower Upper

73 100

57 23.5 19.2 28.8

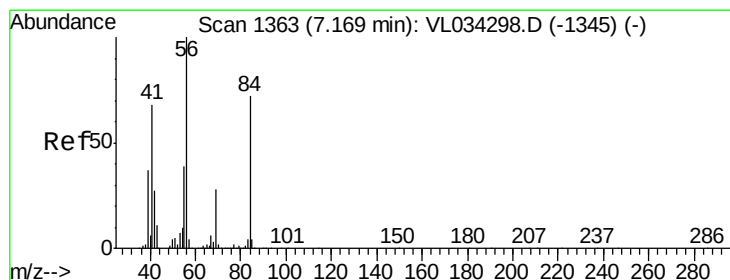
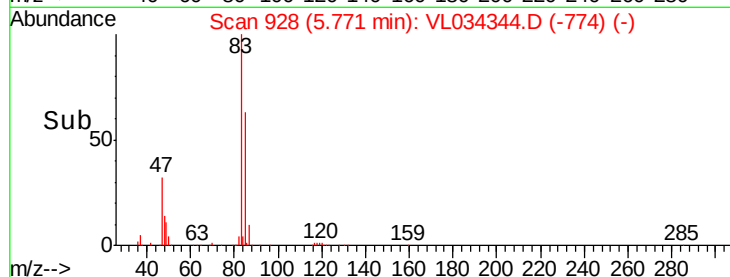
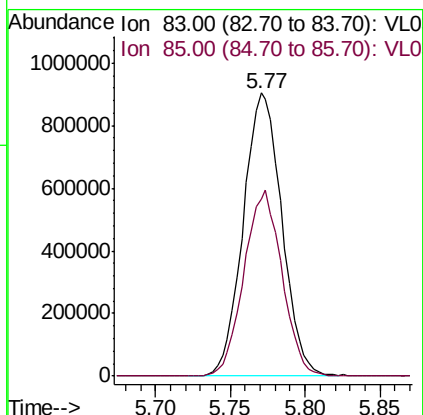
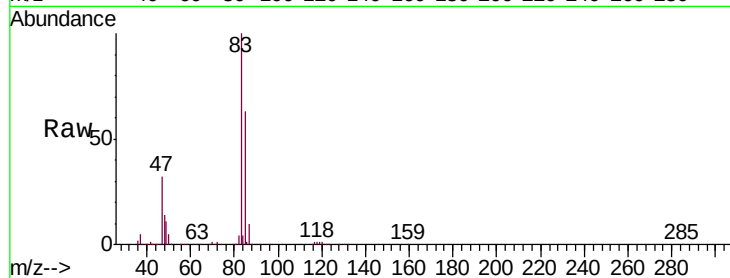




#29  
Chloroform  
Concen: 9.002 ppbv  
RT: 5.77 min Scan# 928  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

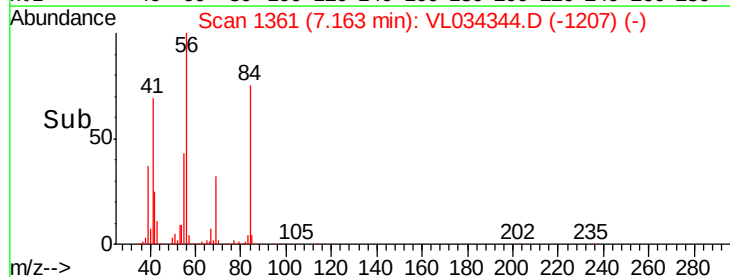
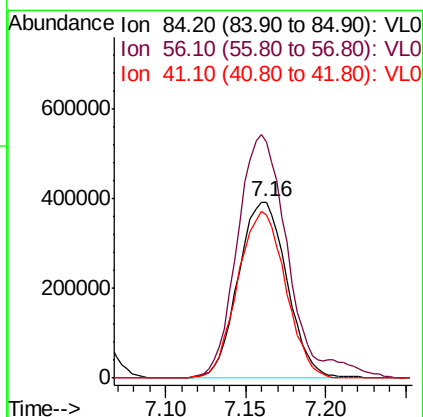
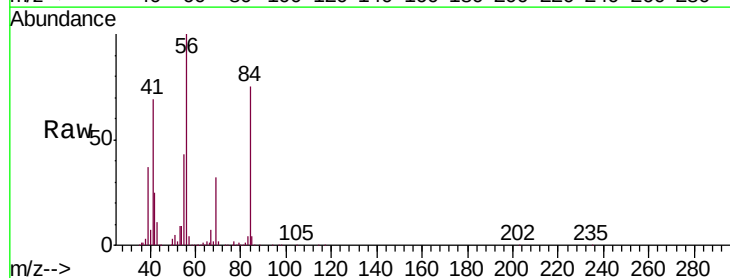
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

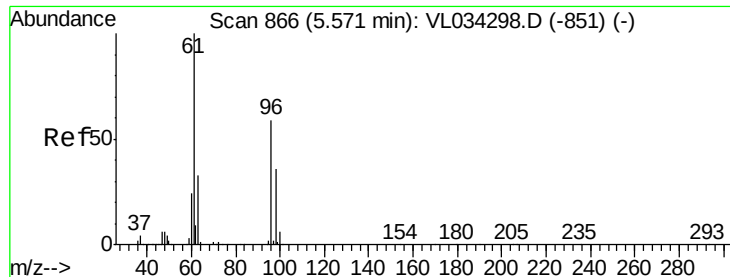
Tgt Ion: 83 Resp: 1622635  
Ion Ratio Lower Upper  
83 100  
85 62.5 50.5 75.7



#30  
Cyclohexane  
Concen: 9.722 ppbv  
RT: 7.16 min Scan# 1361  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 84 Resp: 814746  
Ion Ratio Lower Upper  
84 100  
56 145.0 119.4 179.0  
41 93.0 78.7 118.1



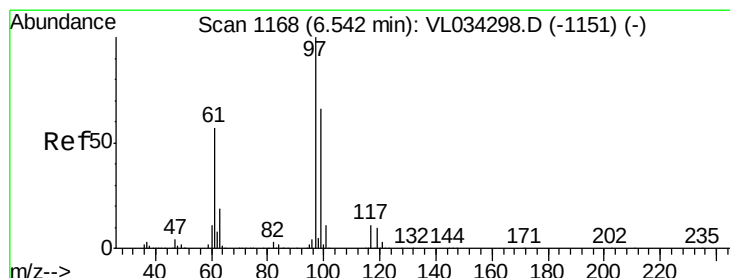
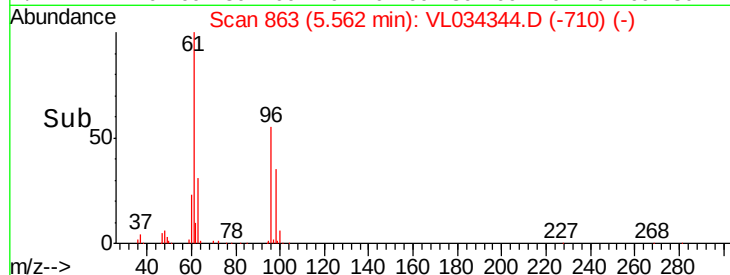
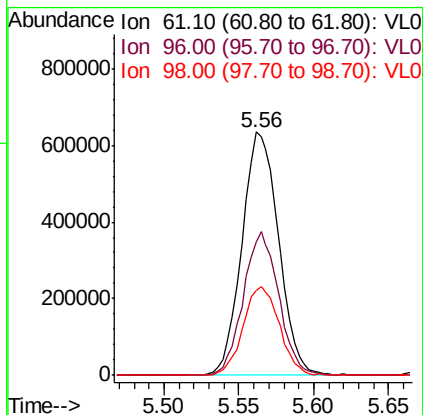
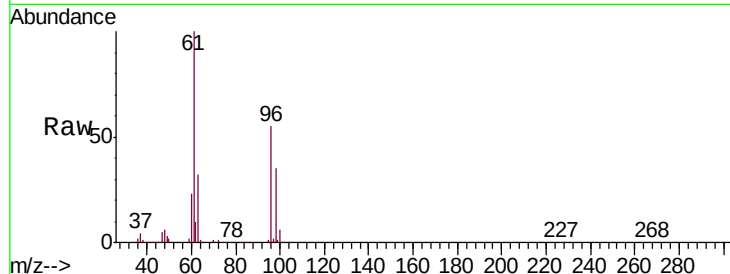


#31

cis-1,2-Dichloroethene  
 Concen: 9.379 ppbv  
 RT: 5.56 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

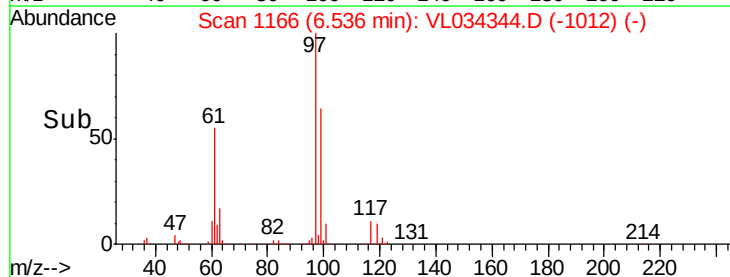
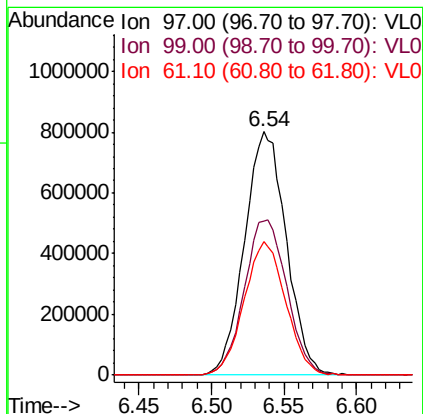
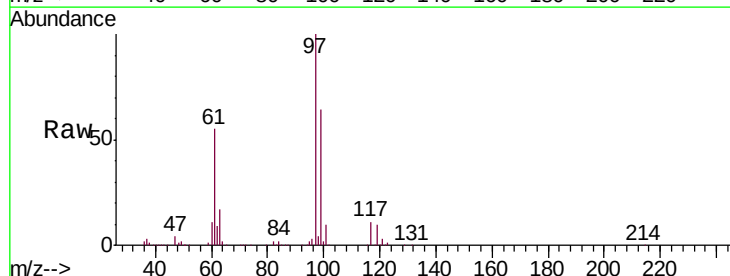
Tgt Ion: 61 Resp: 1084586  
 Ion Ratio Lower Upper  
 61 100  
 96 55.1 47.5 71.3  
 98 34.6 28.8 43.2

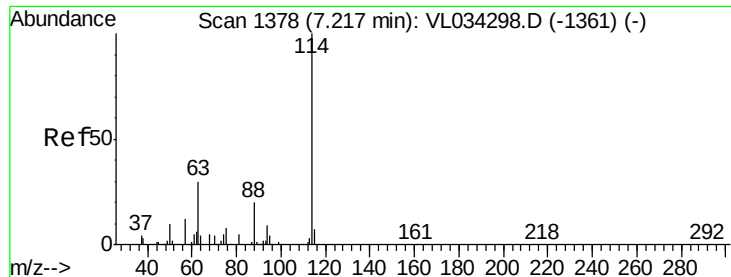


#32

1,1,1-Trichloroethane  
 Concen: 9.160 ppbv  
 RT: 6.54 min Scan# 1166  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 97 Resp: 1605557  
 Ion Ratio Lower Upper  
 97 100  
 99 64.9 52.6 78.8  
 61 54.8 44.5 66.7

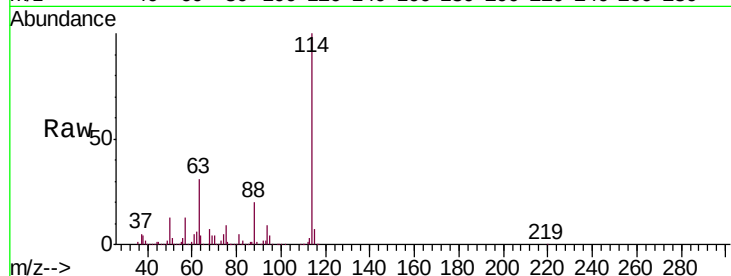




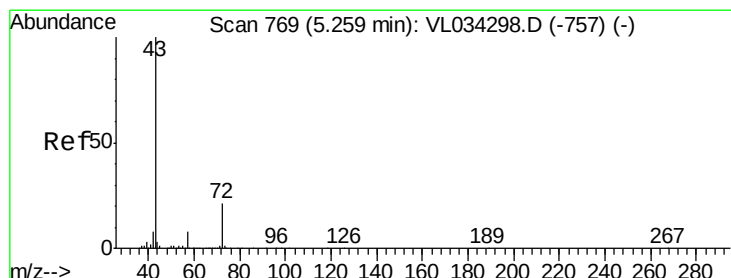
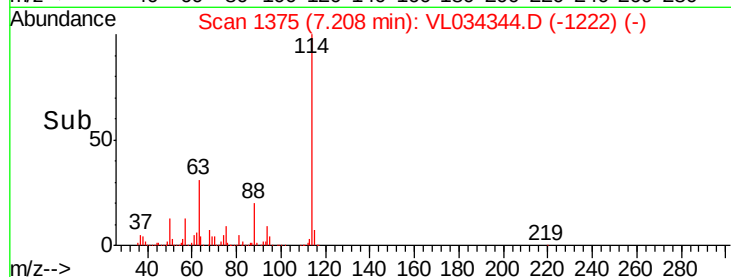
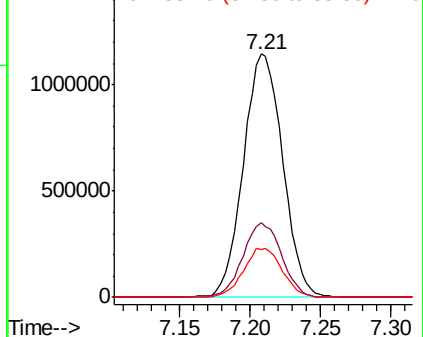
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.21 min Scan# 1375  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion:114 Resp: 2236559  
 Ion Ratio Lower Upper  
 114 100  
 63 30.5 25.2 37.8  
 88 19.9 16.0 24.0

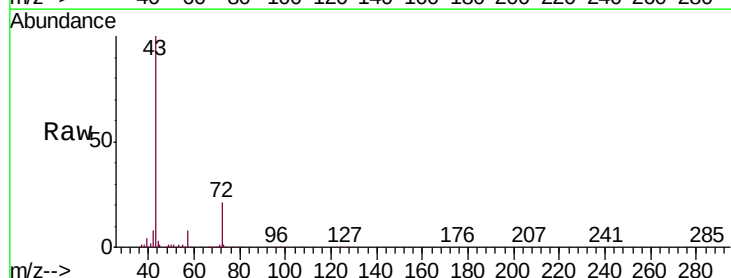


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

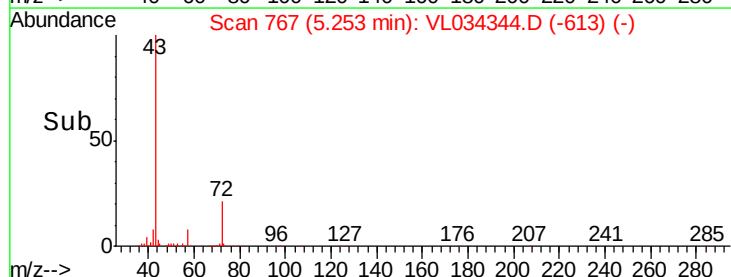
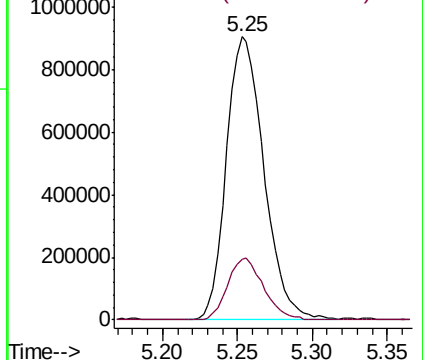


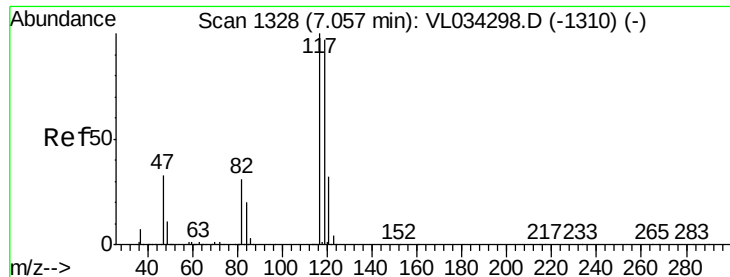
#34  
 2-Butanone  
 Concen: 8.634 ppbv  
 RT: 5.25 min Scan# 767  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 43 Resp: 1578317  
 Ion Ratio Lower Upper  
 43 100  
 72 21.0 16.3 24.5



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





#35

Carbon Tetrachloride

Concen: 8.690 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

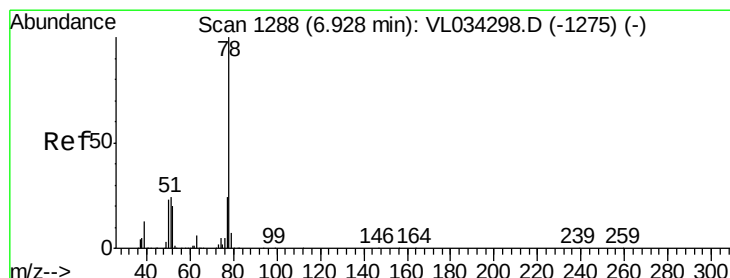
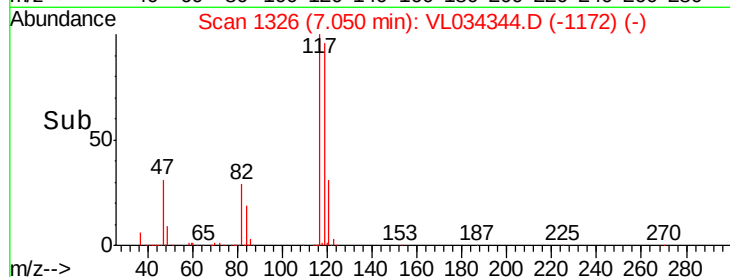
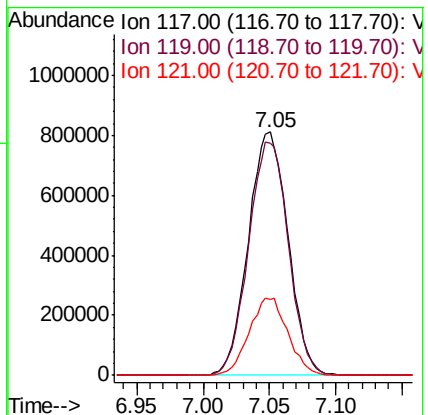
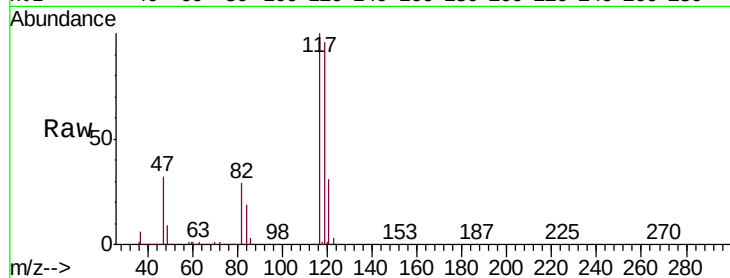
Tgt Ion:117 Resp: 1692926

Ion Ratio Lower Upper

117 100

119 95.6 77.3 115.9

121 31.4 25.5 38.3



#36

Benzene

Concen: 8.973 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

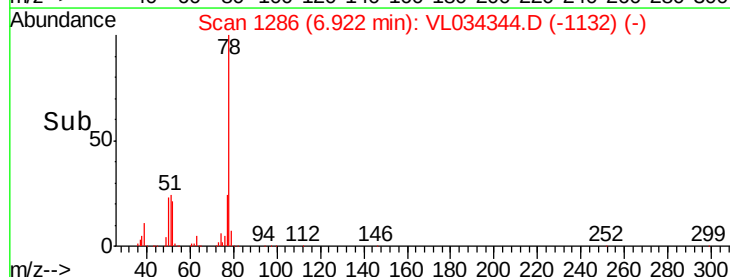
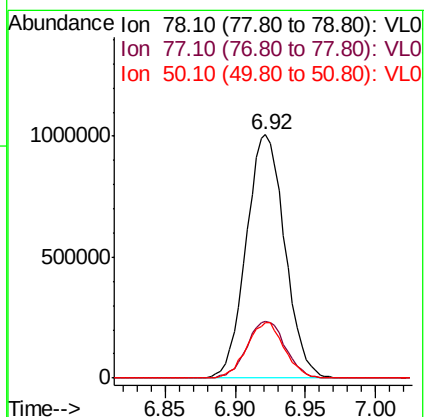
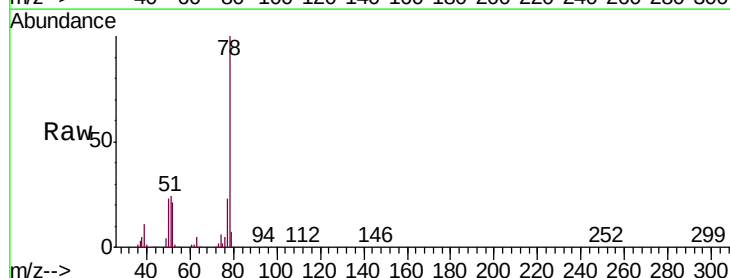
Tgt Ion: 78 Resp: 1925468

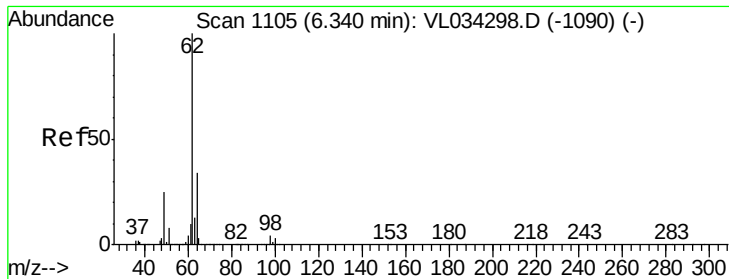
Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.4

50 22.9 18.6 27.8

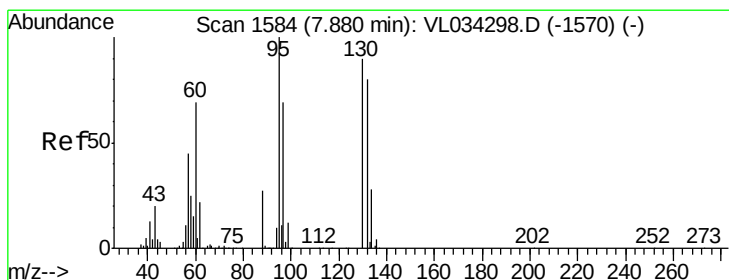
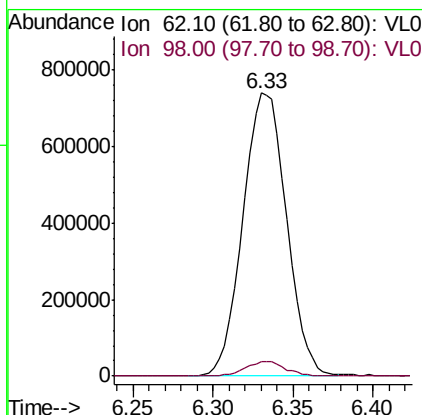
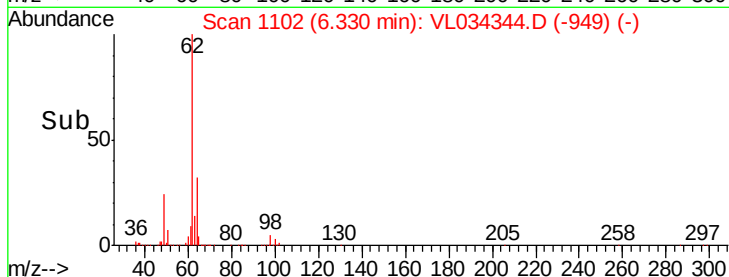
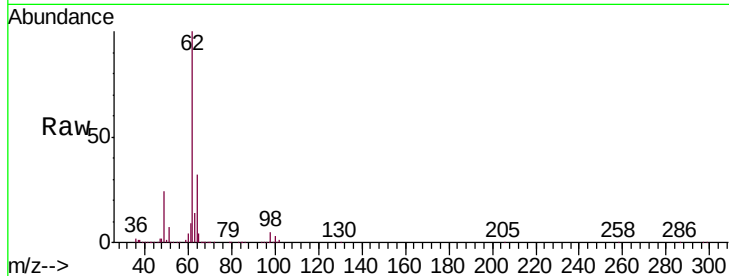




#37  
 1,2-Dichloroethane  
 Concen: 8.623 ppbv  
 RT: 6.33 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

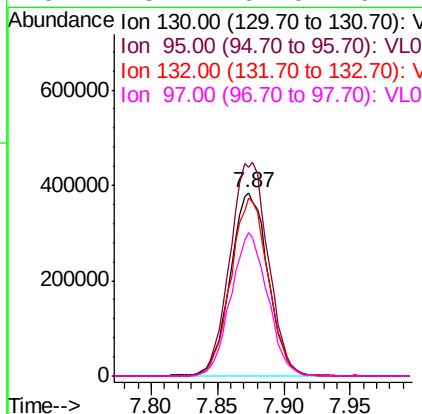
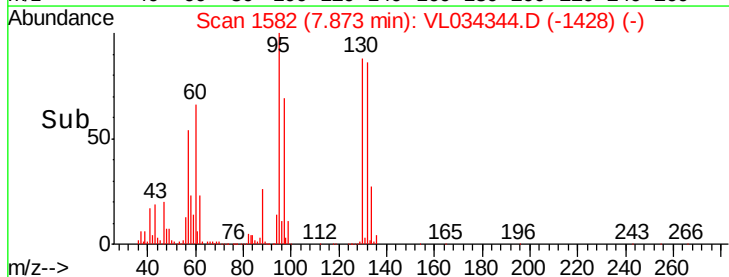
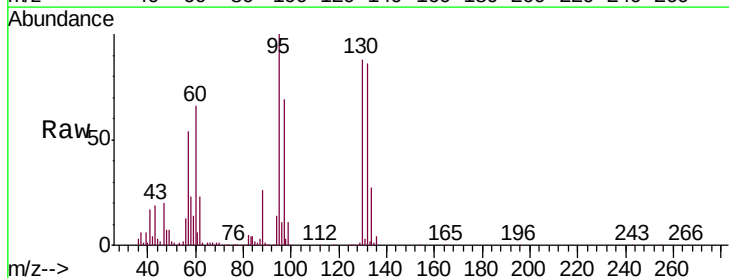
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

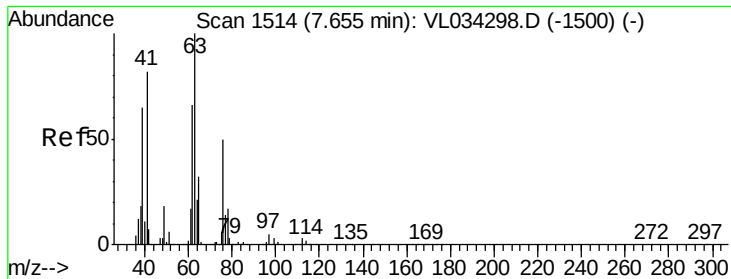
Tgt Ion: 62 Resp: 1379102  
 Ion Ratio Lower Upper  
 62 100  
 98 4.8 3.8 5.6



#38  
 Trichloroethene  
 Concen: 8.806 ppbv  
 RT: 7.87 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 130 Resp: 758282  
 Ion Ratio Lower Upper  
 130 100  
 95 113.3 88.6 132.8  
 132 97.1 71.2 106.8  
 97 78.2 61.0 91.4





#39

1,2-Dichloropropane

Concen: 8.784 ppbv

RT: 7.65 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

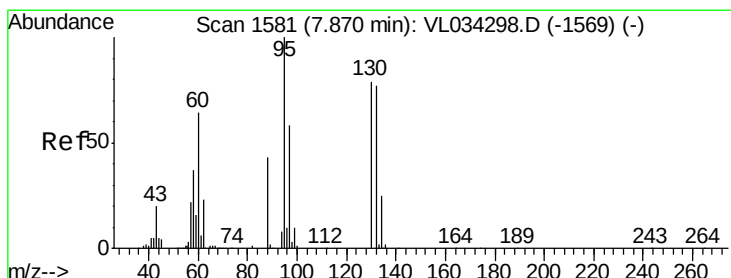
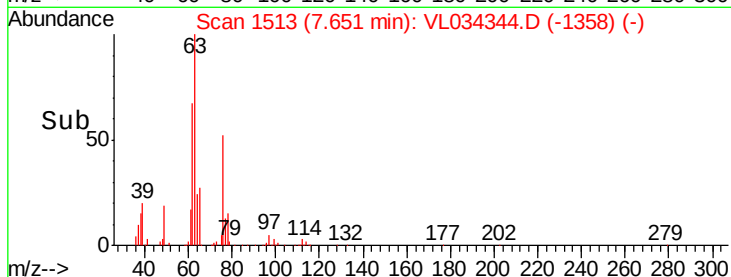
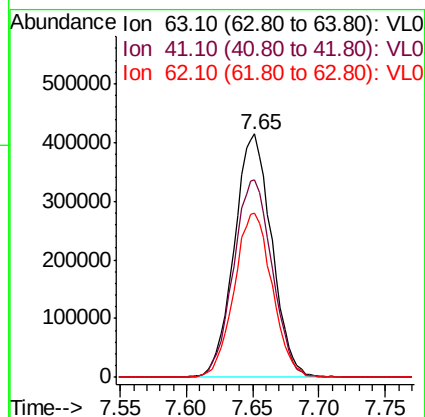
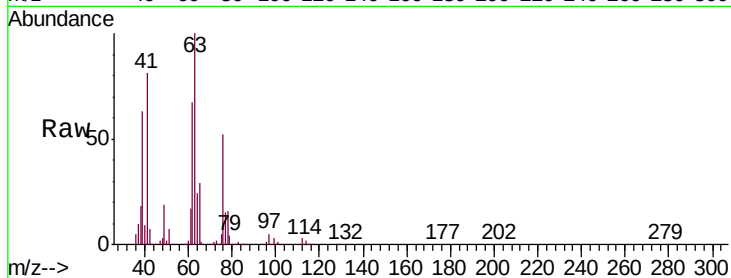
Tgt Ion: 63 Resp: 811647

Ion Ratio Lower Upper

63 100

41 80.7 65.6 98.4

62 67.2 53.0 79.6



#40

1,4-Dioxane

Concen: 8.469 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion: 88 Resp: 275007

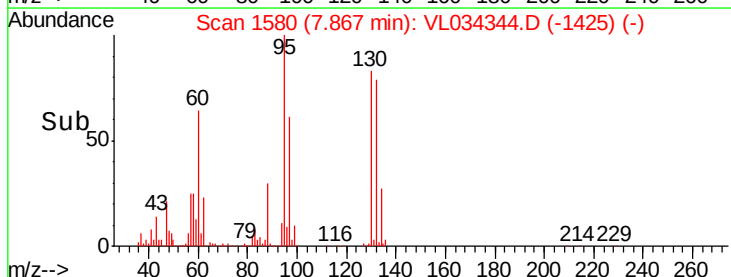
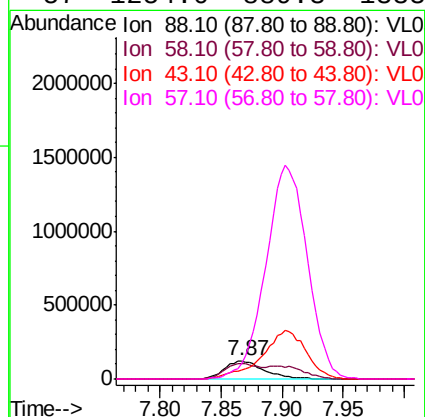
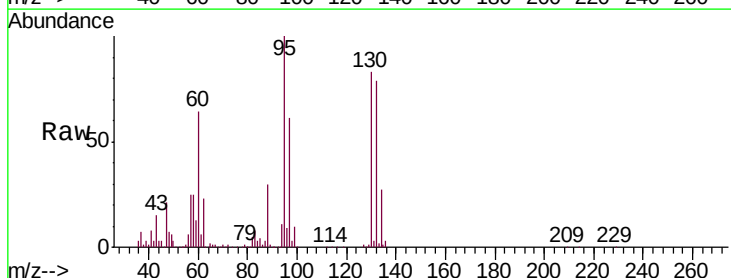
Ion Ratio Lower Upper

88 100

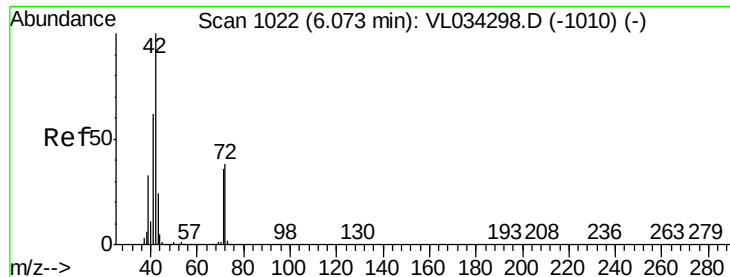
58 140.9 110.3 165.5

43 302.1 228.1 342.1

57 1254.0 889.3 1333.9







#41

Tetrahydrofuran

Concen: 9.099 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

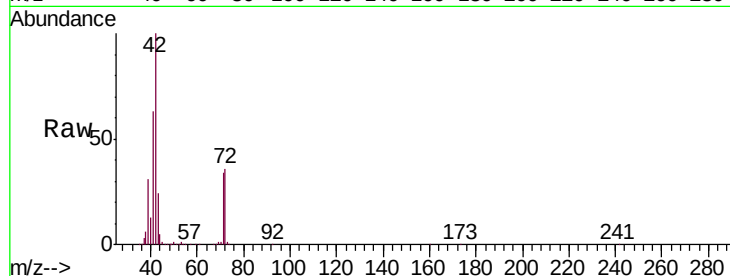
Tgt Ion: 42 Resp: 923141

Ion Ratio Lower Upper

42 100

72 36.1 28.0 42.0

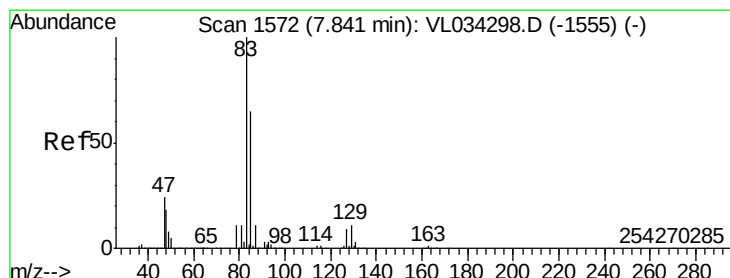
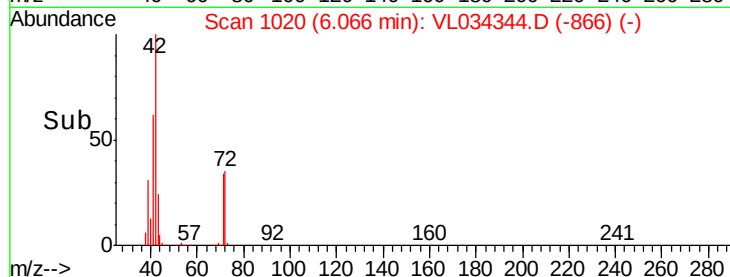
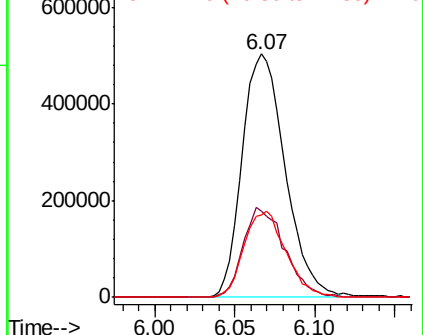
71 34.6 27.3 40.9



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.053 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

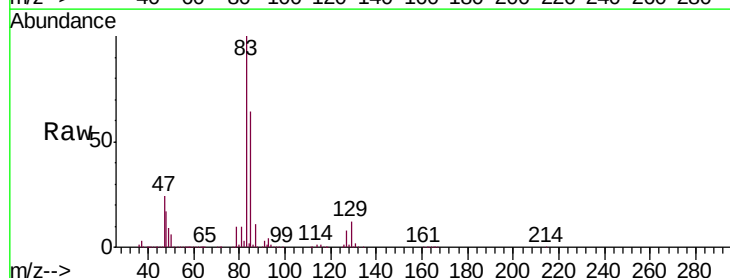
Tgt Ion: 83 Resp: 1773308

Ion Ratio Lower Upper

83 100

85 63.7 51.8 77.6

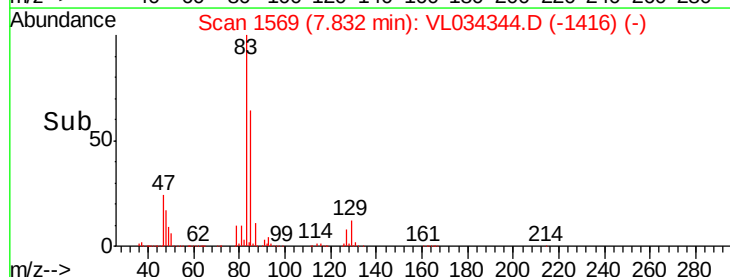
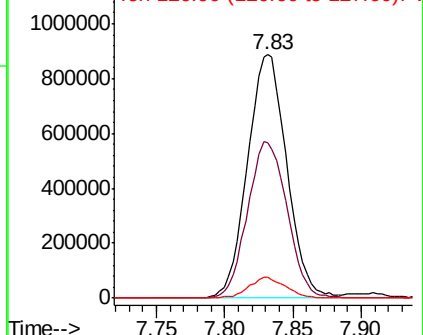
127 8.4 7.0 10.6

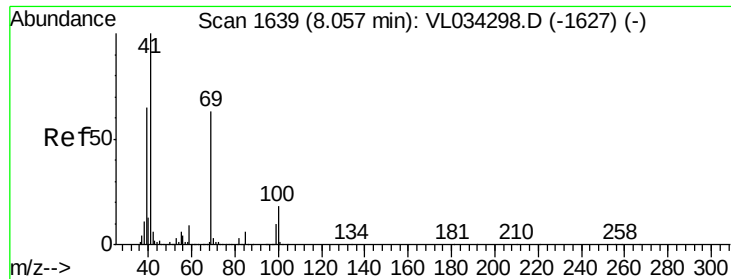


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

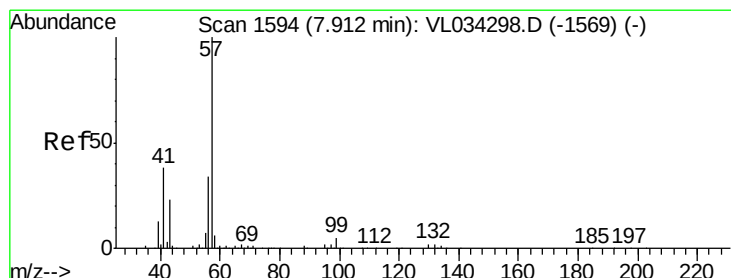
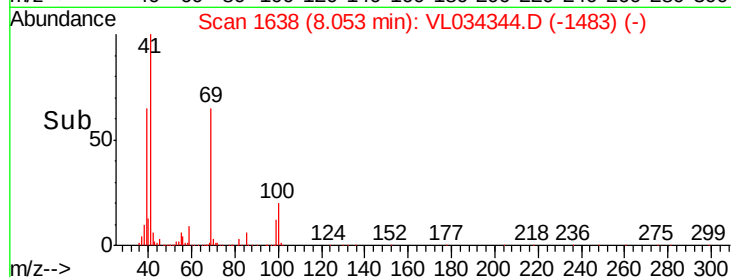
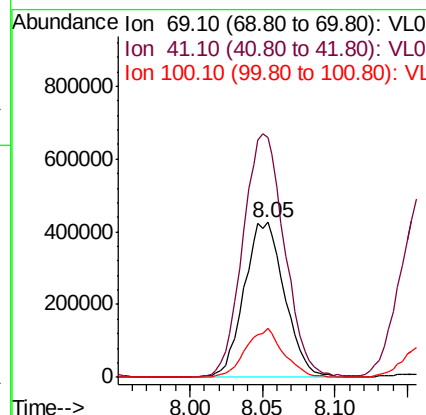
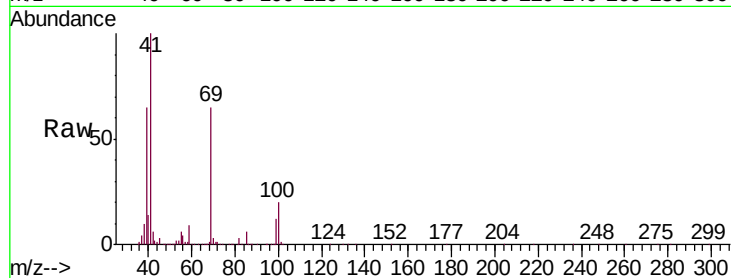




#43  
Methyl Methacrylate  
Concen: 9.339 ppbv  
RT: 8.05 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

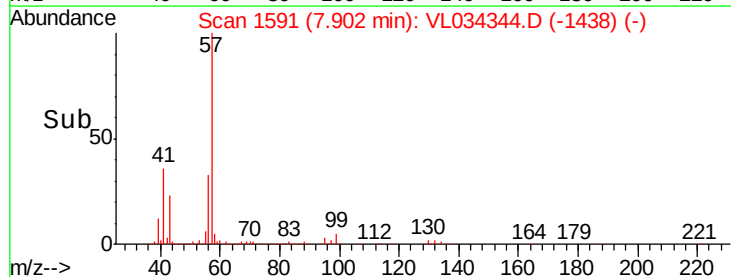
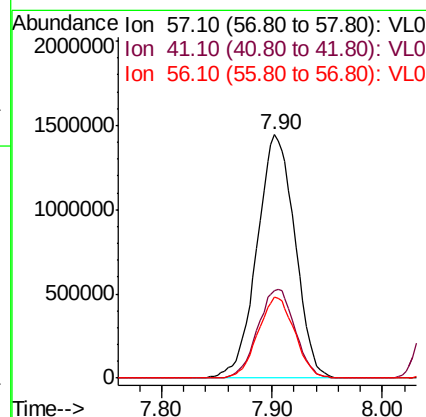
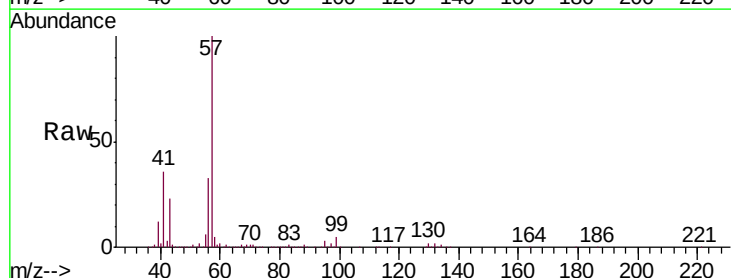
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

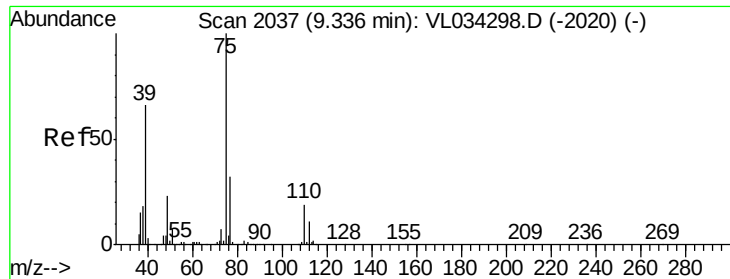
Tgt Ion: 69 Resp: 828860  
Ion Ratio Lower Upper  
69 100  
41 160.9 132.1 198.1  
100 29.5 23.2 34.8



#44  
2,2,4-Trimethylpentane  
Concen: 8.662 ppbv  
RT: 7.90 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 57 Resp: 3440480  
Ion Ratio Lower Upper  
57 100  
41 35.9 29.3 43.9  
56 32.2 25.3 37.9

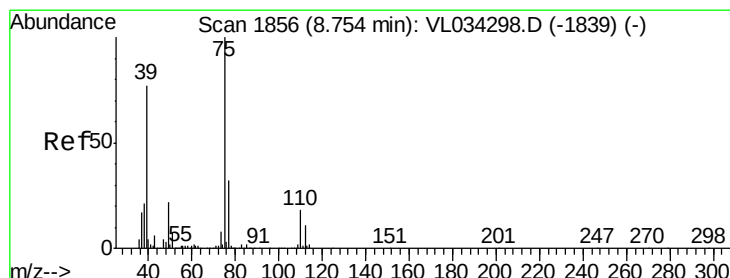
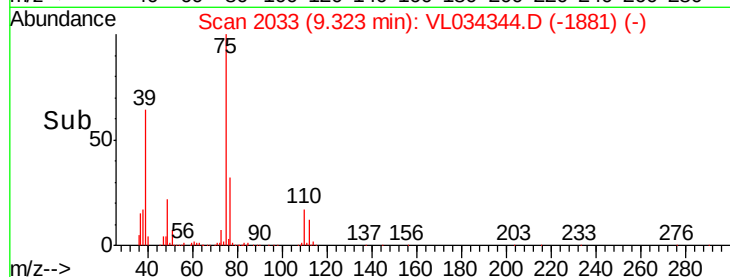
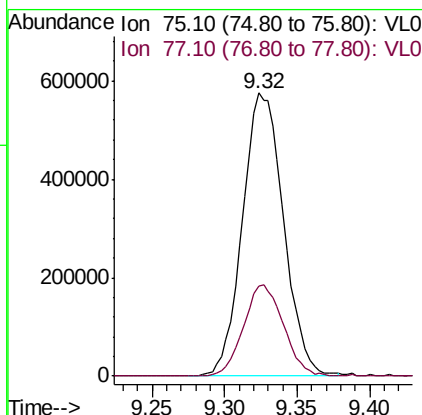
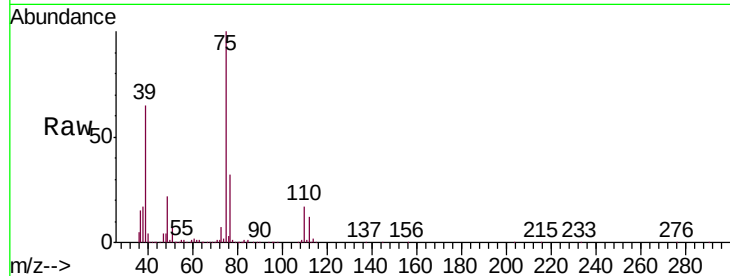




#45  
t-1,3-Dichloropropene  
Concen: 10.505 ppbv  
RT: 9.32 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

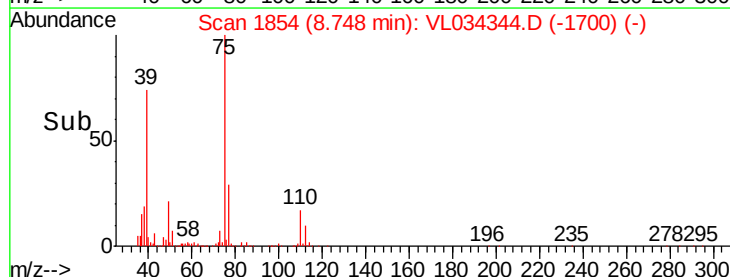
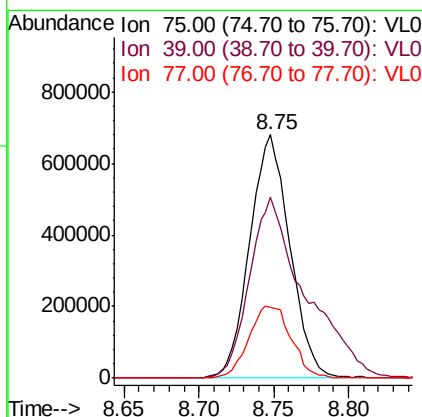
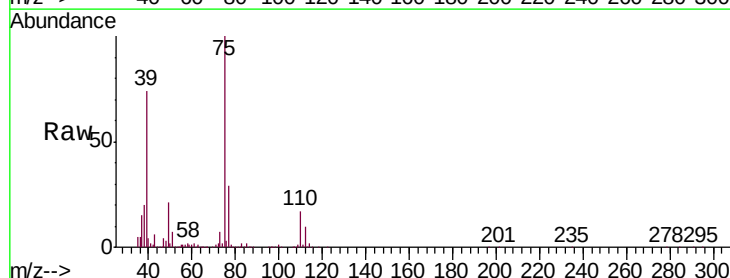
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

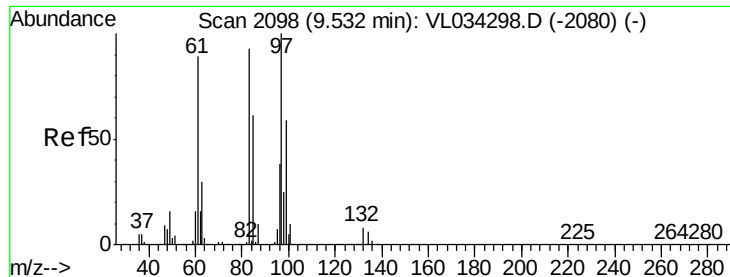
Tgt Ion: 75 Resp: 1135971  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.6 38.4



#46  
cis-1,3-Dichloropropene  
Concen: 10.201 ppbv  
RT: 8.75 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 75 Resp: 1267252  
Ion Ratio Lower Upper  
75 100  
39 74.2 61.2 91.8  
77 29.2 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 8.721 ppbv

RT: 9.52 min Scan# 2095

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

Tgt Ion: 97 Resp: 816219

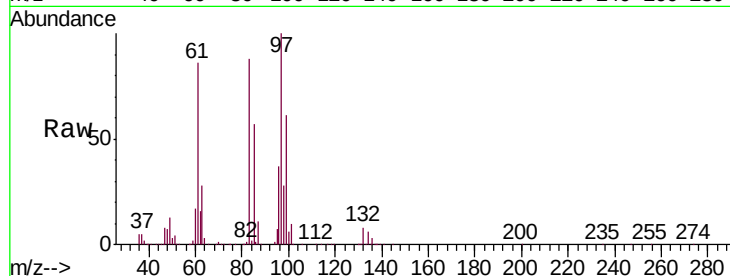
Ion Ratio Lower Upper

97 100

83 87.6 74.2 111.2

85 56.6 48.6 73.0

99 61.0 47.0 70.6

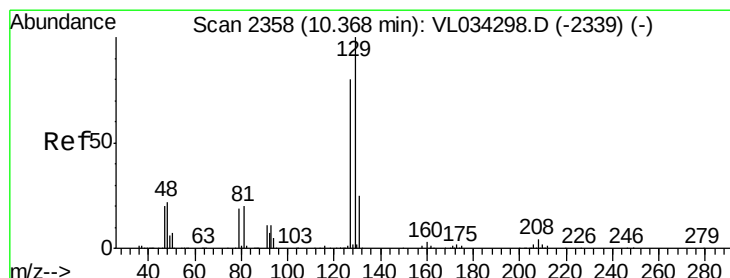
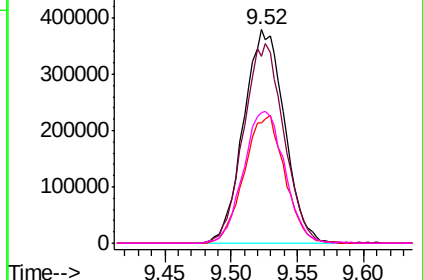
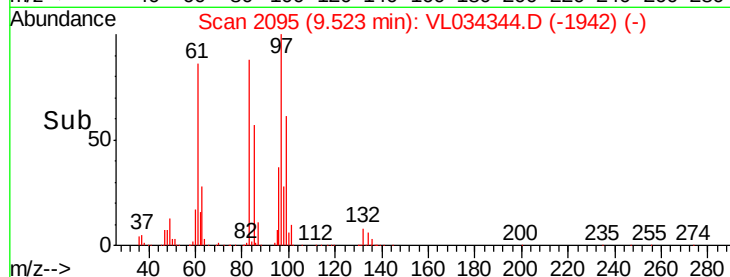


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.580 ppbv

RT: 10.36 min Scan# 2355

Delta R.T. -0.01 min

Lab File: VL034344.D

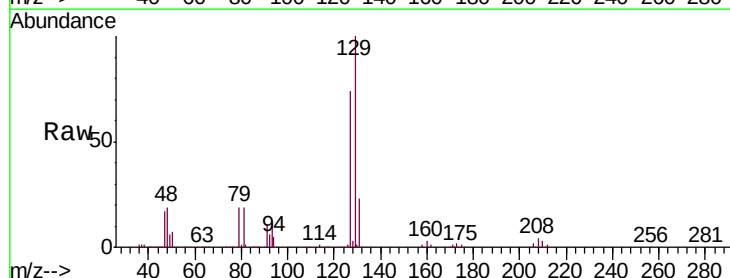
Acq: 24 Oct 2019 13:01

Tgt Ion: 129 Resp: 1470897

Ion Ratio Lower Upper

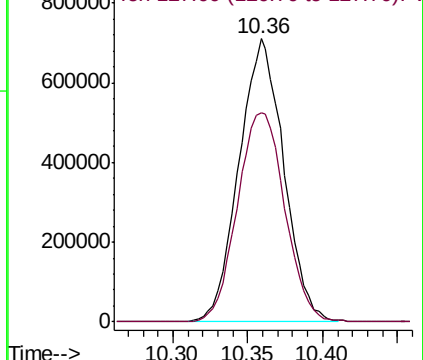
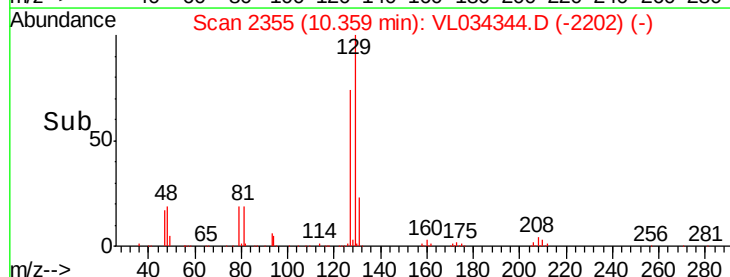
129 100

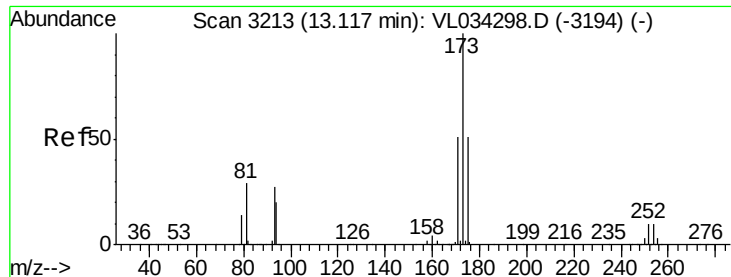
127 78.7 39.7 119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.712 ppbv

RT: 13.10 min Scan# 3209

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

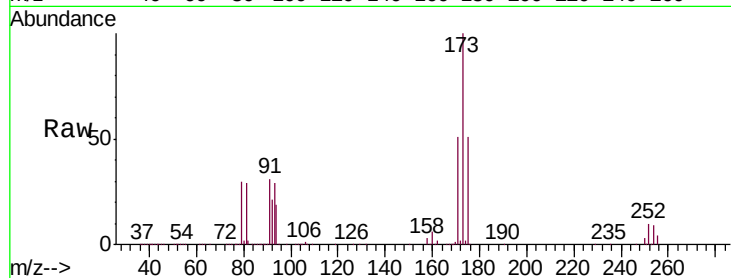
Tgt Ion:173 Resp: 1321327

Ion Ratio Lower Upper

173 100

175 49.3 39.8 59.6

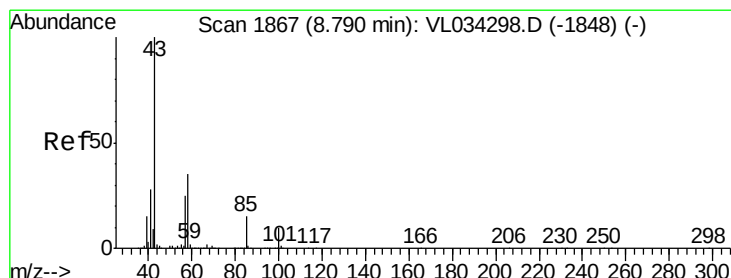
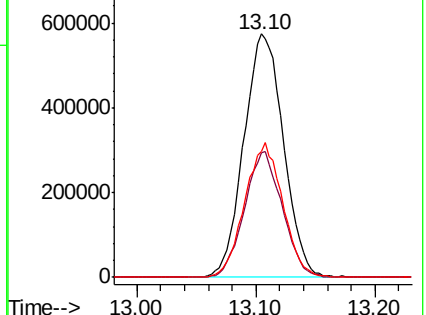
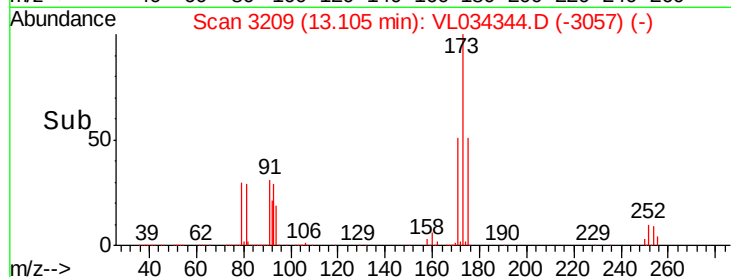
171 52.9 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.986 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. -0.01 min

Lab File: VL034344.D

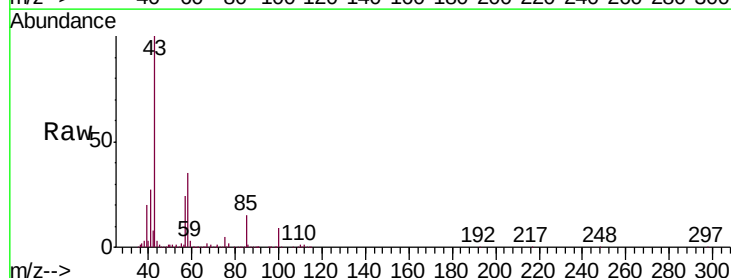
Acq: 24 Oct 2019 13:01

Tgt Ion: 43 Resp: 2351795

Ion Ratio Lower Upper

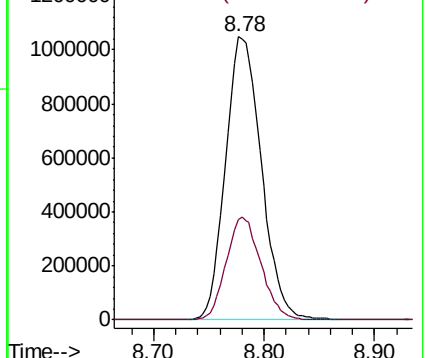
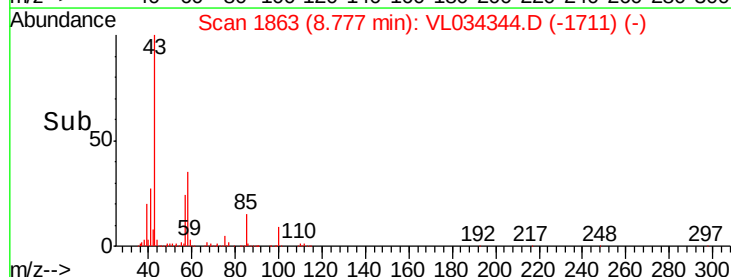
43 100

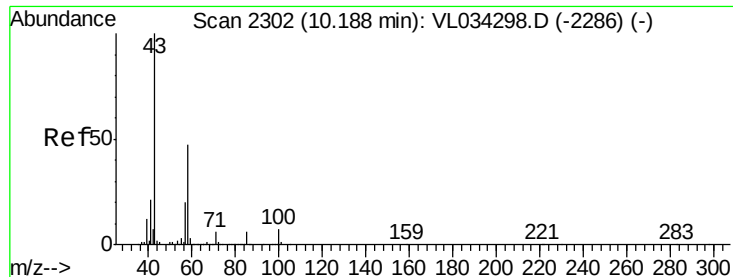
58 35.4 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

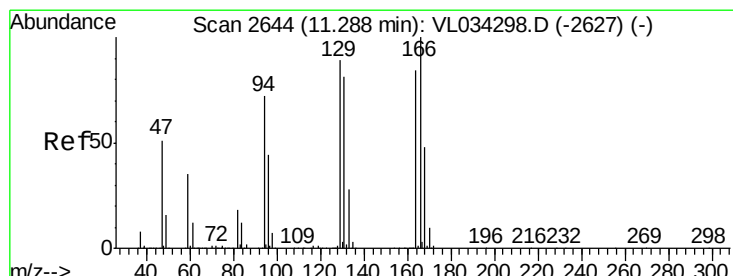
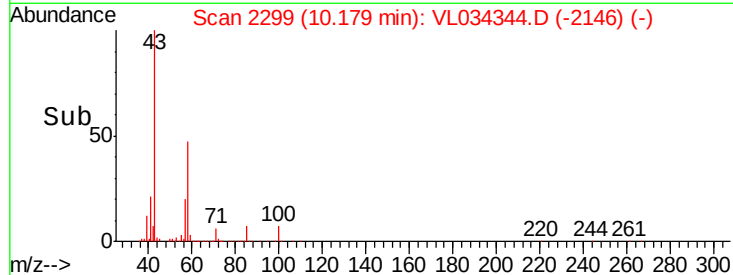
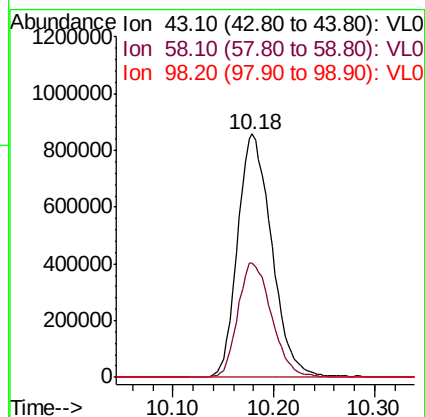
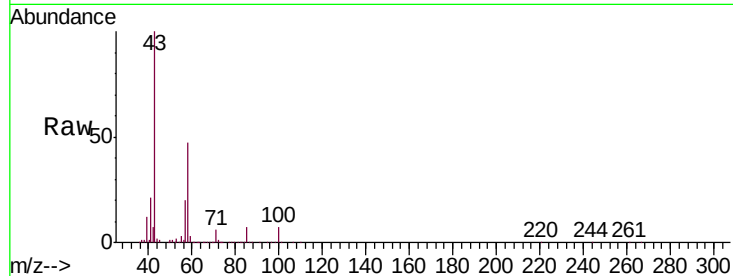




#51  
2-Hexanone  
Concen: 9.365 ppbv  
RT: 10.18 min Scan# 2299  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

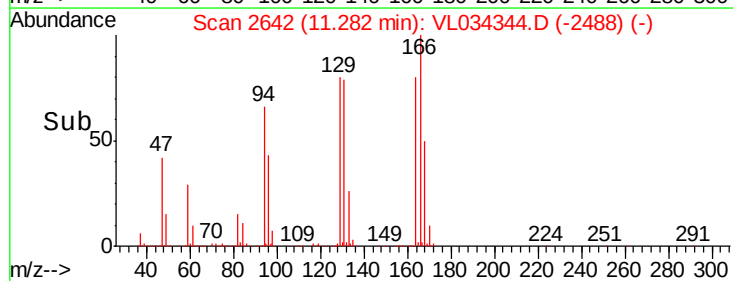
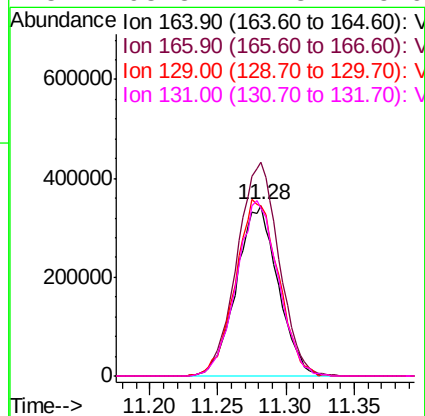
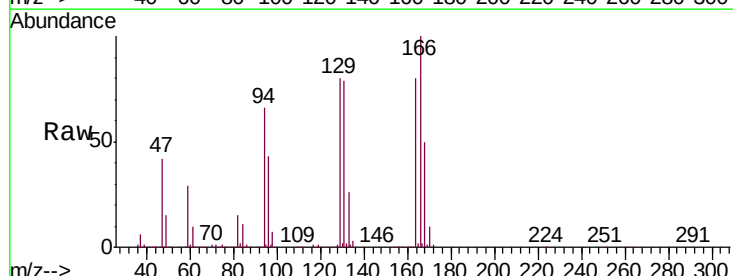
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

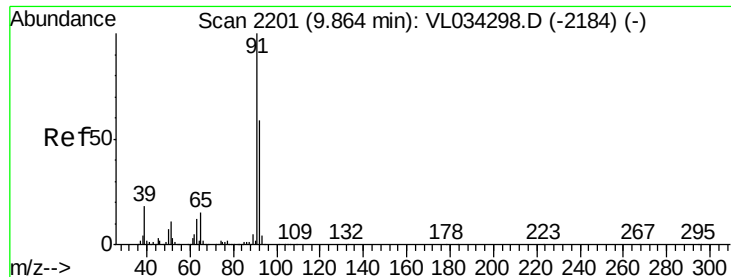
Tgt Ion: 43 Resp: 2009041  
Ion Ratio Lower Upper  
43 100  
58 46.6 37.0 55.6  
98 0.2 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 8.644 ppbv  
RT: 11.28 min Scan# 2642  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 164 Resp: 727074  
Ion Ratio Lower Upper  
164 100  
166 125.0 95.3 142.9  
129 99.7 84.5 126.7  
131 98.3 77.3 115.9





#53

Toluene

Concen: 9.433 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

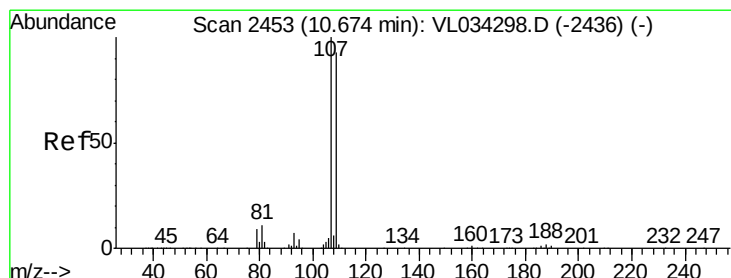
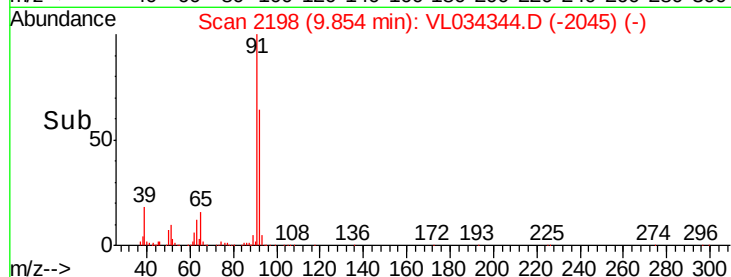
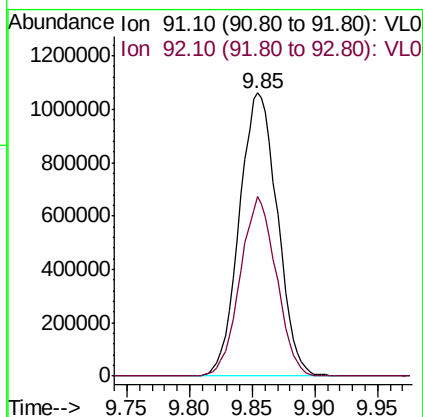
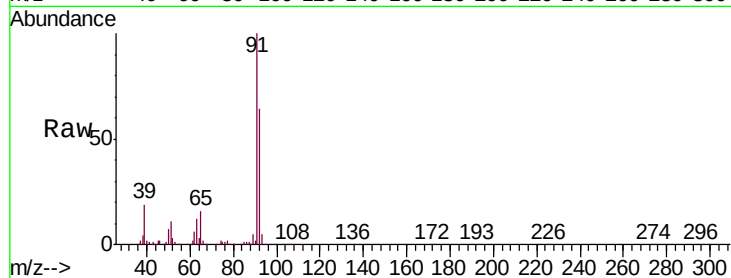
VL1024ABS01

Tgt Ion: 91 Resp: 2233949

Ion Ratio Lower Upper

91 100

92 60.3 48.4 72.6



#54

1,2-Dibromoethane

Concen: 9.032 ppbv

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034344.D

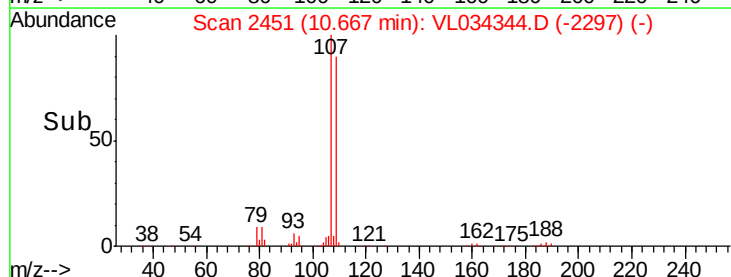
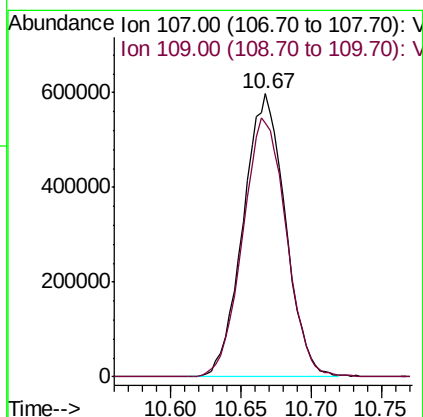
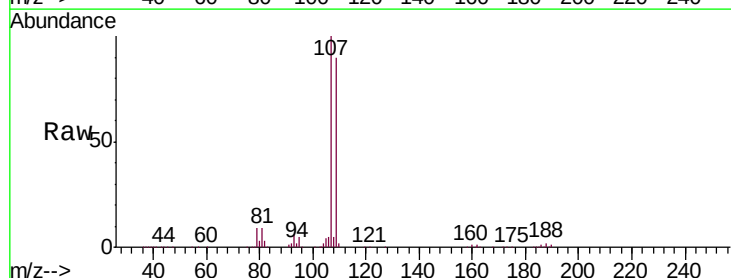
Acq: 24 Oct 2019 13:01

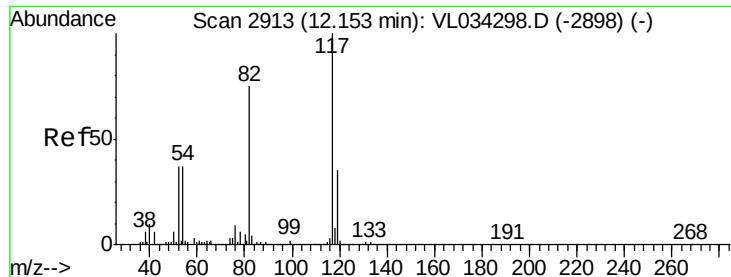
Tgt Ion: 107 Resp: 1252907

Ion Ratio Lower Upper

107 100

109 89.8 74.6 112.0

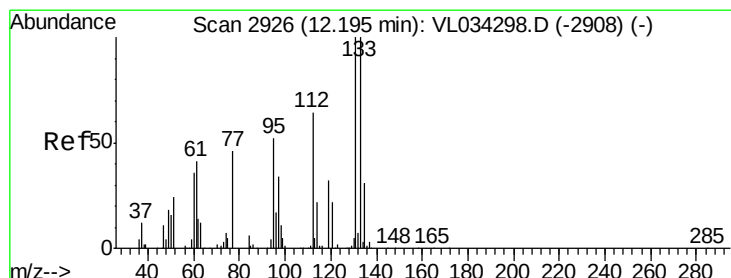
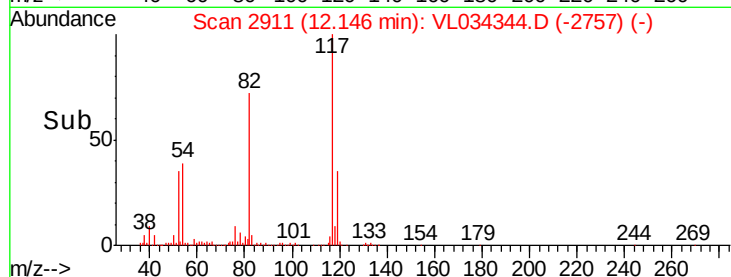
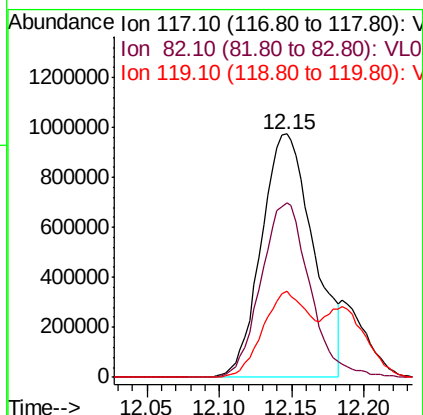
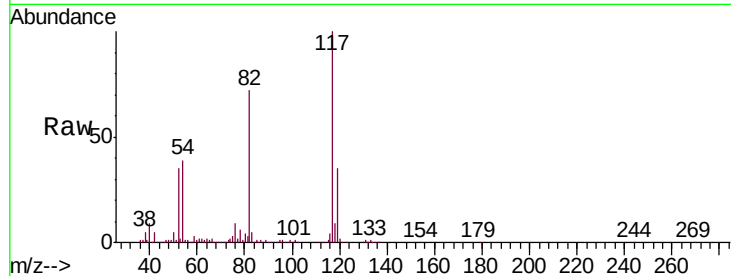




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

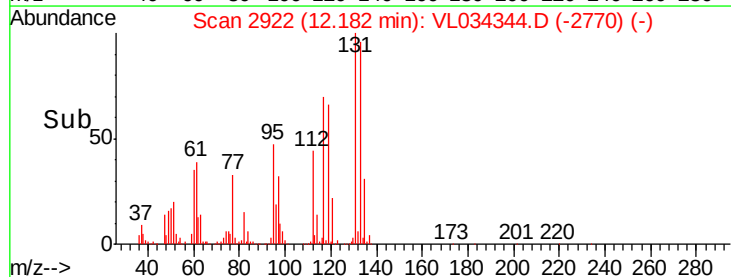
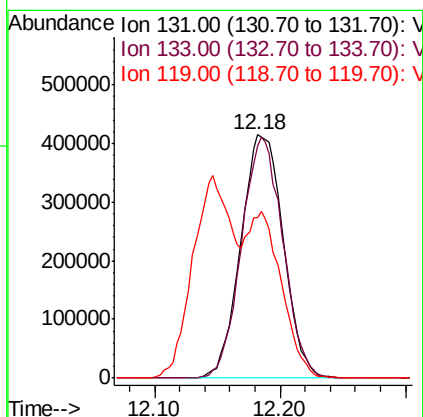
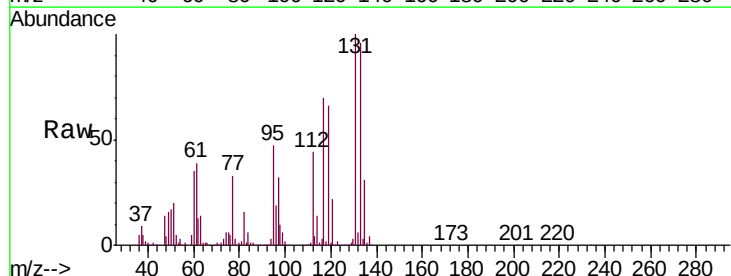
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion:117 Resp: 2436040  
Ion Ratio Lower Upper  
117 100  
82 67.5 55.5 83.3  
119 32.2 26.5 39.7

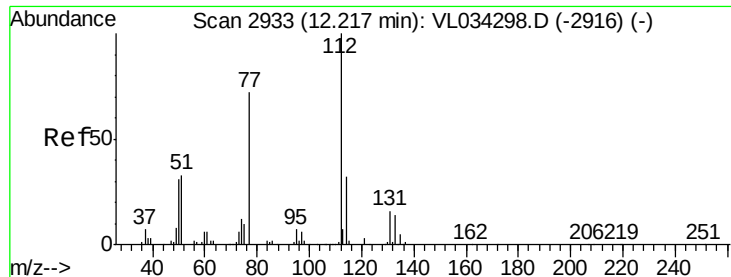


#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.703 ppbv  
RT: 12.18 min Scan# 2922  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion:131 Resp: 977088  
Ion Ratio Lower Upper  
131 100  
133 96.3 77.1 115.7  
119 136.9 49.0 73.4#



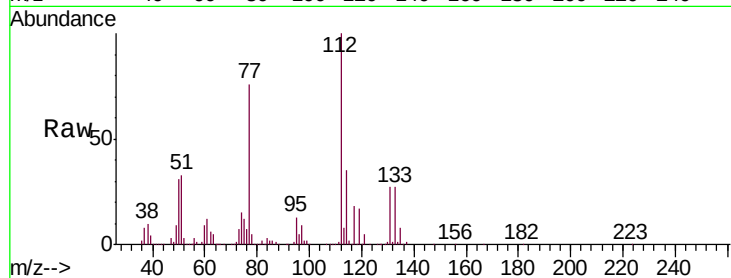




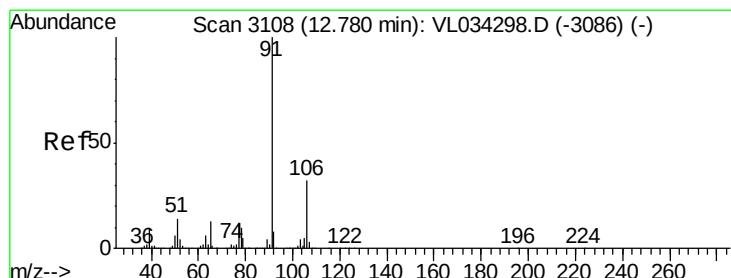
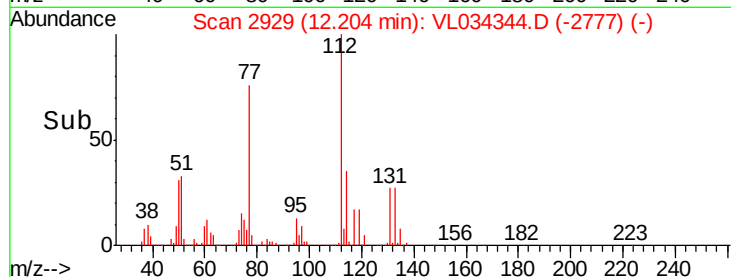
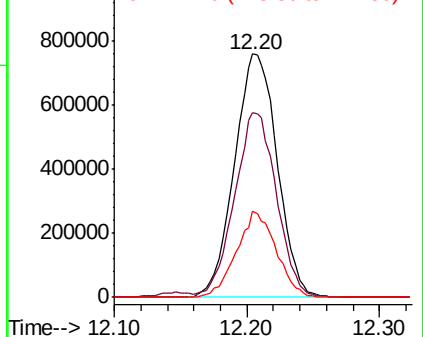
#57  
Chlorobenzene  
Concen: 8.317 ppbv  
RT: 12.20 min Scan# 2929  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

Tgt Ion: 112 Resp: 1690243  
Ion Ratio Lower Upper  
112 100  
77 75.9 58.6 88.0  
114 35.1 28.6 35.0#

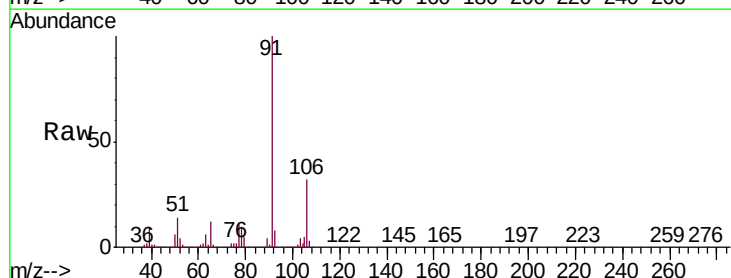


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

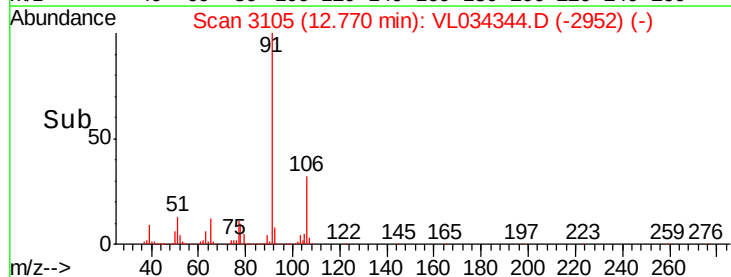
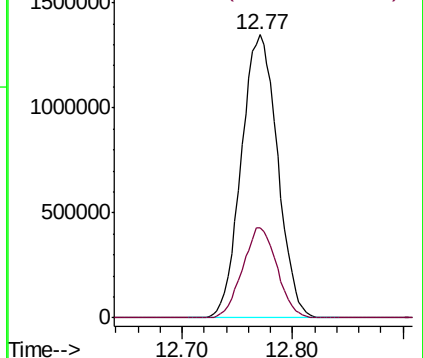


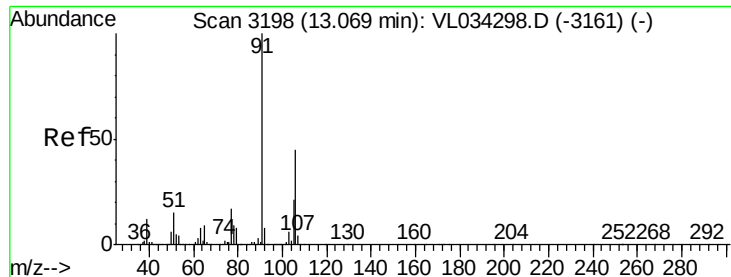
#58  
Ethyl Benzene  
Concen: 8.992 ppbv  
RT: 12.77 min Scan# 3105  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 3062088  
Ion Ratio Lower Upper  
91 100  
106 31.7 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V

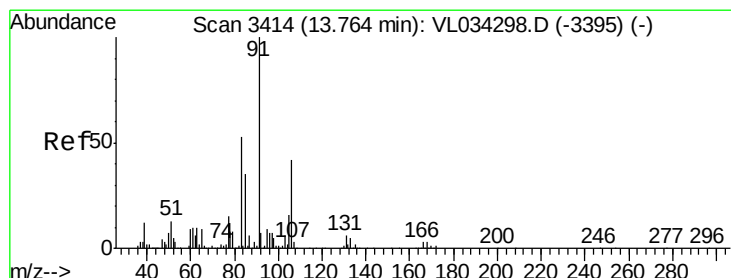
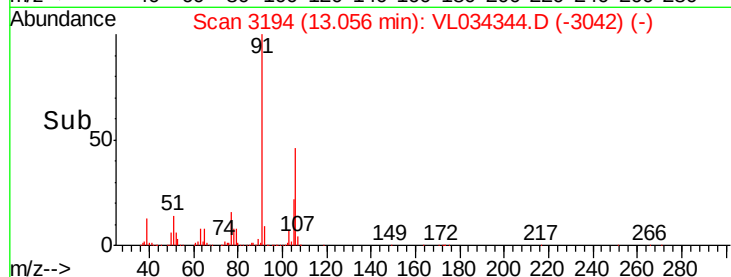
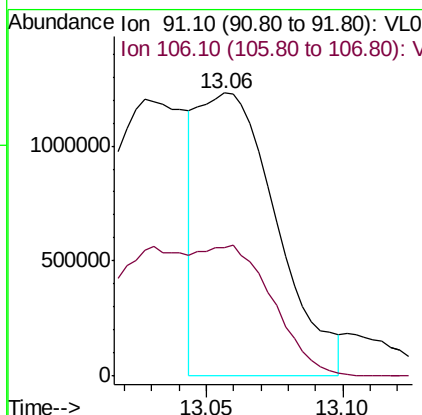
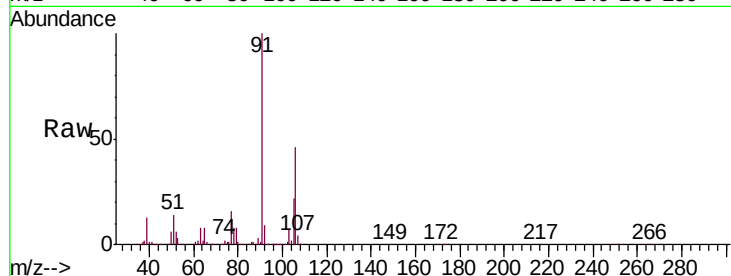




#59  
m/p-Xylene  
Concen: 8.338 ppbv  
RT: 13.06 min Scan# 3194  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

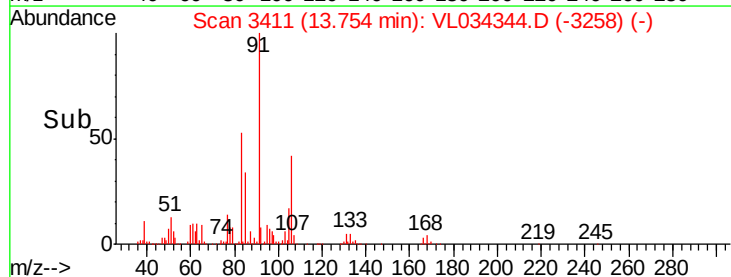
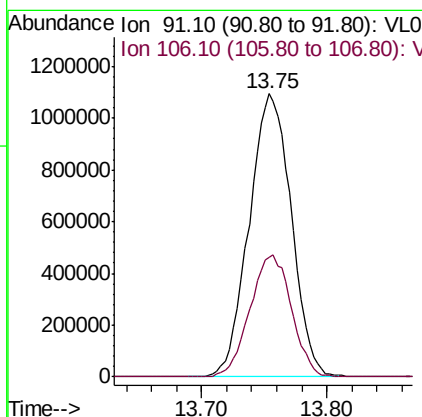
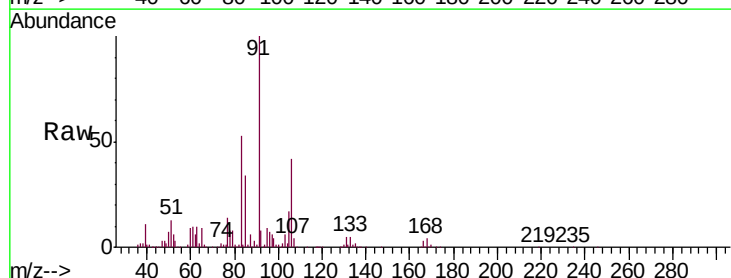
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

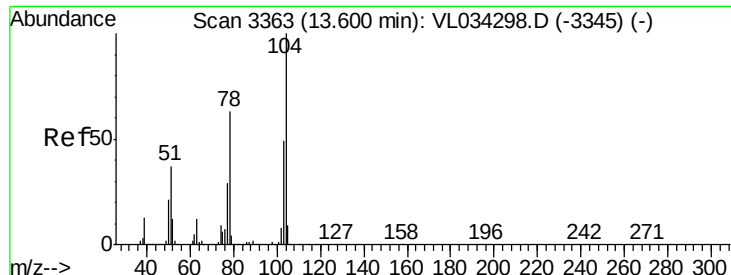
Tgt Ion: 91 Resp: 2460177  
Ion Ratio Lower Upper  
91 100  
106 91.3 35.4 53.2#



#60  
o-Xylene  
Concen: 8.694 ppbv  
RT: 13.75 min Scan# 3411  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 2554445  
Ion Ratio Lower Upper  
91 100  
106 42.5 21.6 64.6

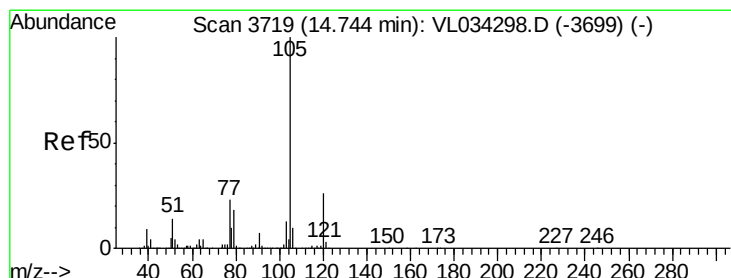
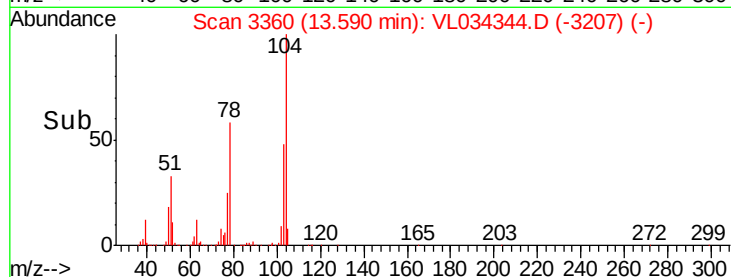
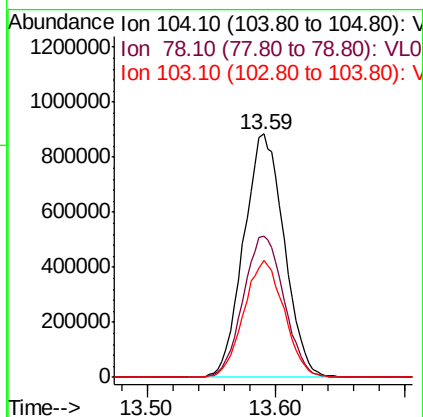
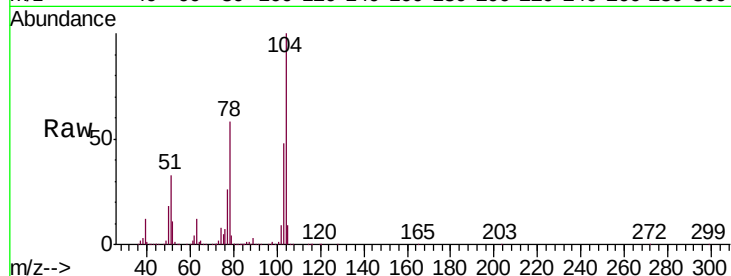




#61  
Styrene  
Concen: 9.348 ppbv  
RT: 13.59 min Scan# 3360  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

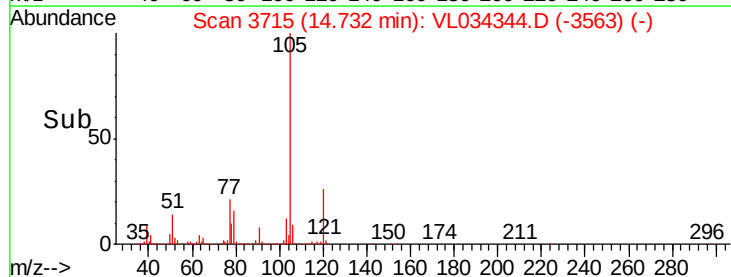
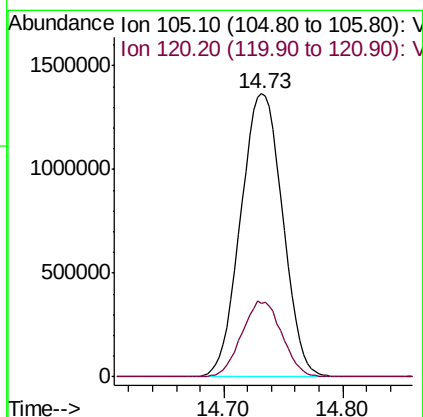
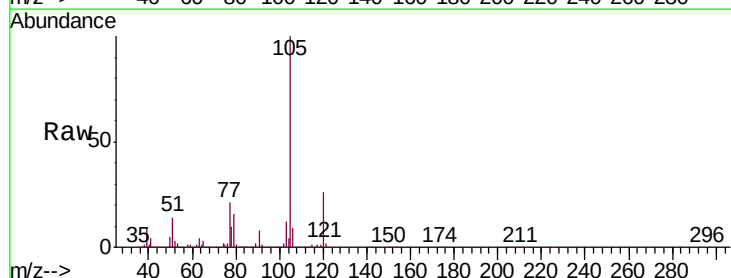
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1024ABS01

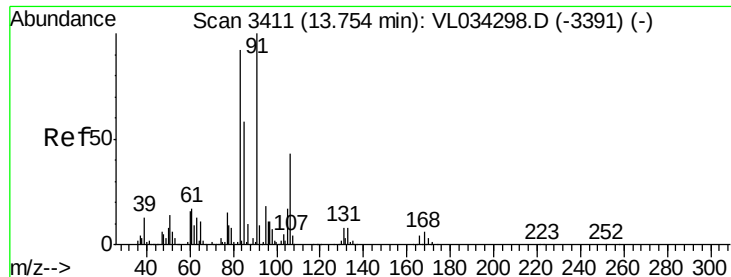
Tgt Ion:104 Resp: 1933563  
Ion Ratio Lower Upper  
104 100  
78 58.8 47.8 71.8  
103 47.8 39.0 58.6



#62  
Isopropylbenzene  
Concen: 8.607 ppbv  
RT: 14.73 min Scan# 3715  
Delta R.T. -0.01 min  
Lab File: VL034344.D  
Acq: 24 Oct 2019 13:01

Tgt Ion:105 Resp: 3338051  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.8 31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 7.473 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

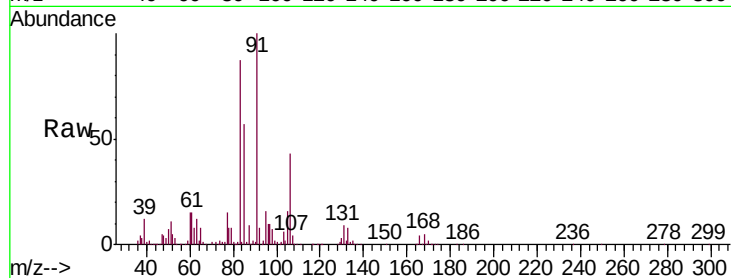
Tgt Ion: 83 Resp: 1764332

Ion Ratio Lower Upper

83 100

131 9.3 4.8 14.4

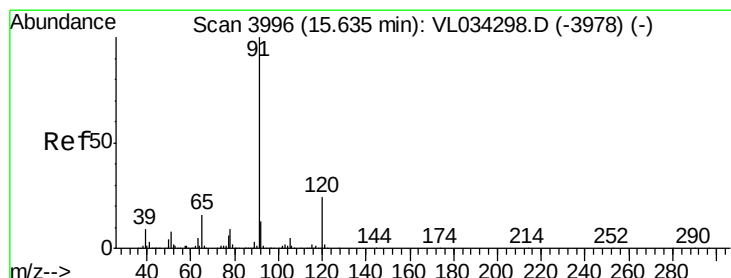
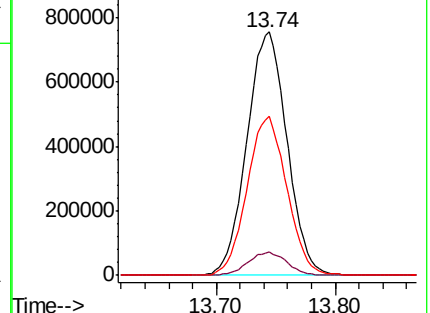
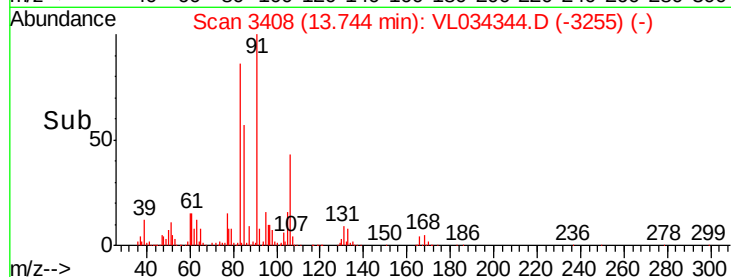
85 64.7 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.748 ppbv

RT: 15.63 min Scan# 3994

Delta R.T. -0.01 min

Lab File: VL034344.D

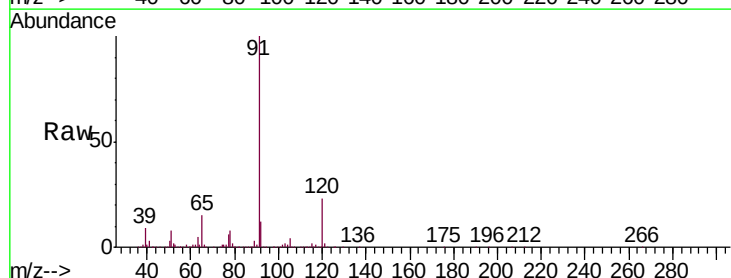
Acq: 24 Oct 2019 13:01

Tgt Ion: 120 Resp: 870673

Ion Ratio Lower Upper

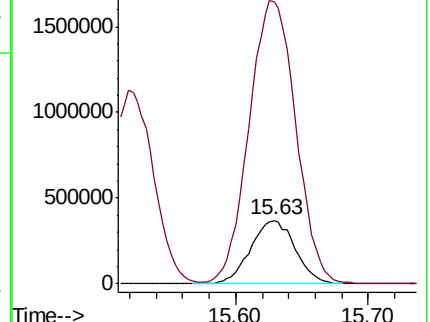
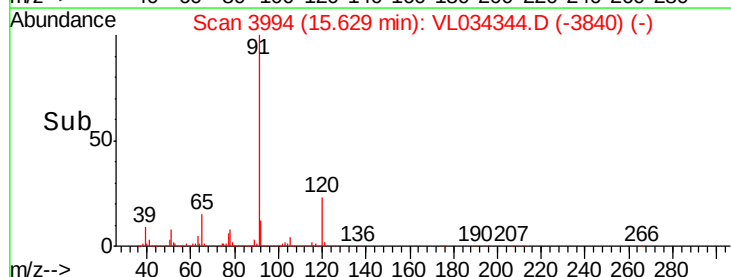
120 100

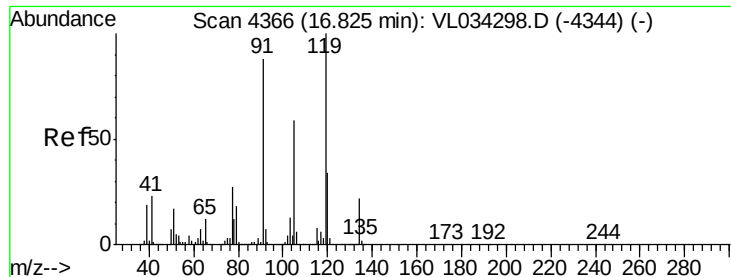
91 468.0 374.9 562.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.512 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampled :

VL1024ABS01

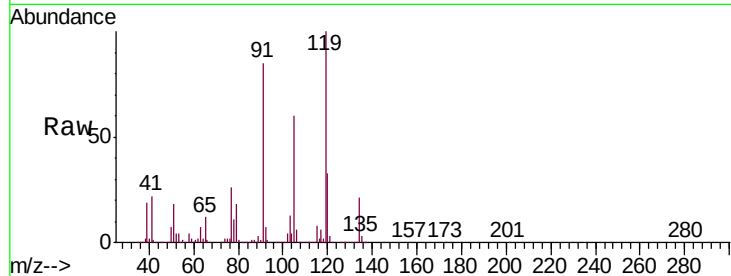
Tgt Ion:119 Resp: 2925861

Ion Ratio Lower Upper

119 100

91 88.9 71.4 107.0

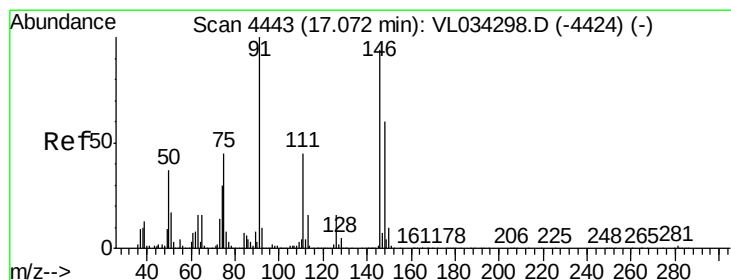
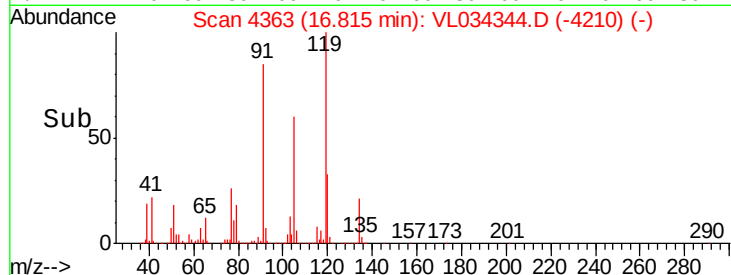
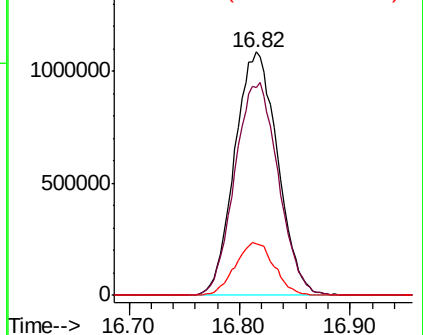
134 19.8 15.9 23.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.320 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

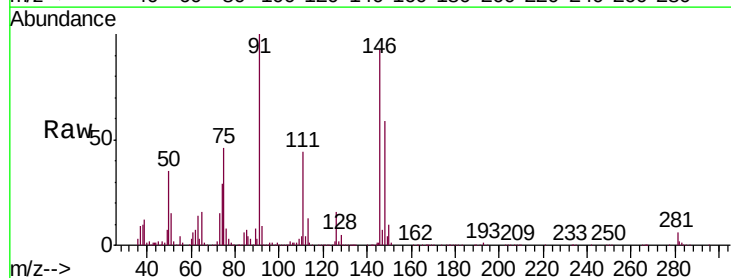
Tgt Ion: 91 Resp: 1401096

Ion Ratio Lower Upper

91 100

126 16.5 12.9 19.3

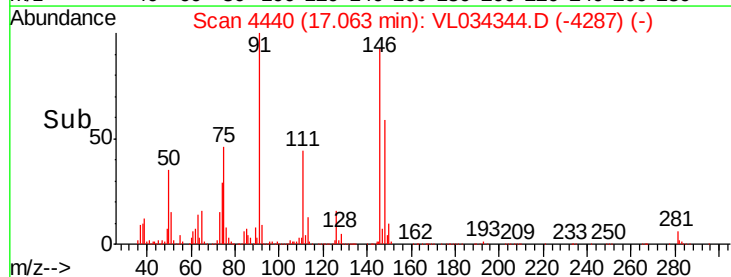
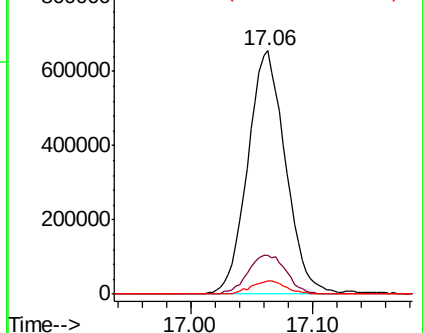
128 5.1 4.3 6.5

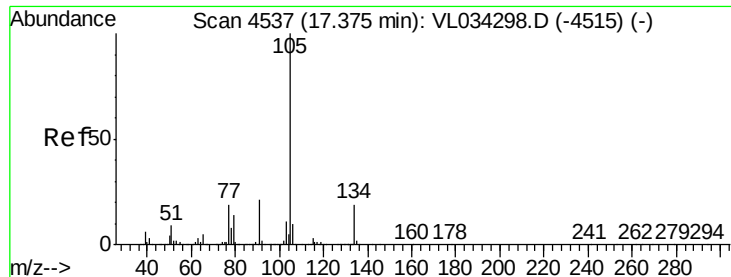


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.413 ppbv

RT: 17.36 min Scan# 4534

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

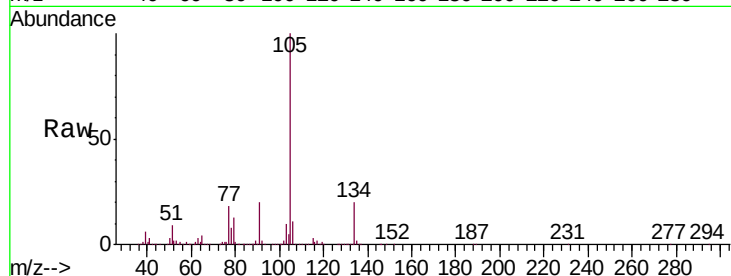
VL1024ABS01

Tgt Ion: 105 Resp: 4069857

Ion Ratio Lower Upper

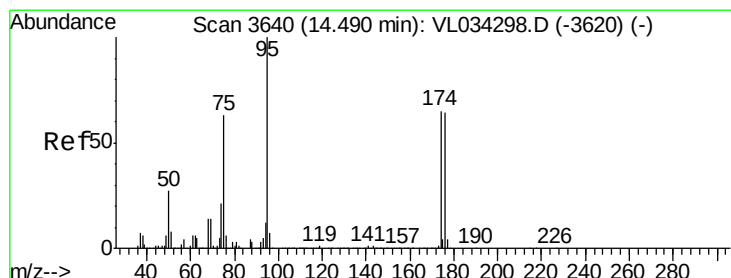
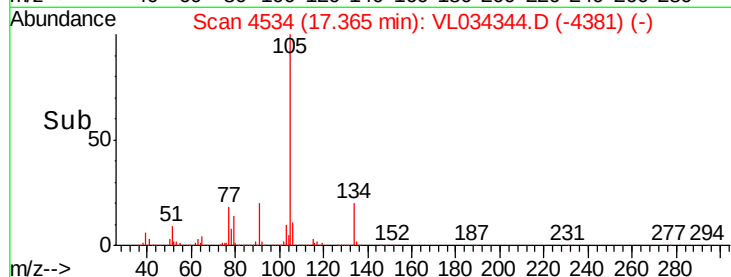
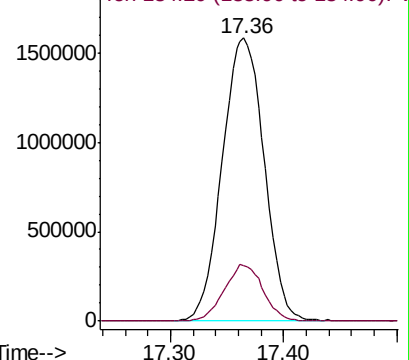
105 100

134 18.7 15.4 23.0



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: 9.412 ppbv

RT: 14.48 min Scan# 3637

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

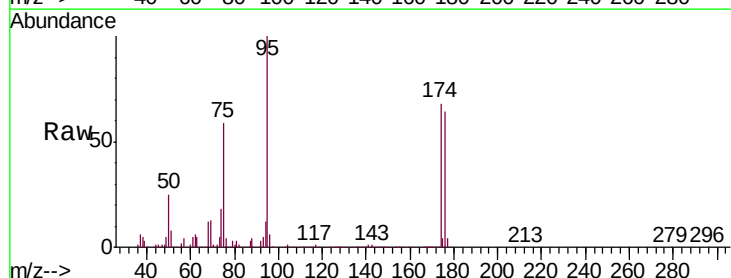
Tgt Ion: 95 Resp: 1941808

Ion Ratio Lower Upper

95 100

174 66.5 52.6 78.8

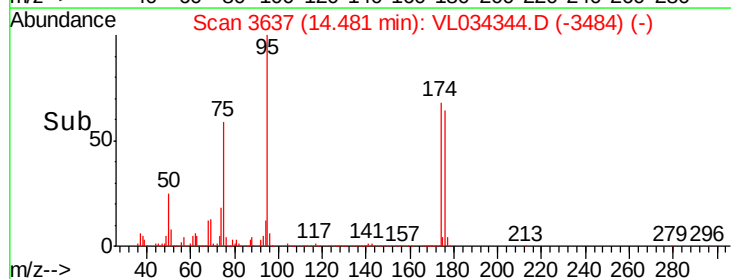
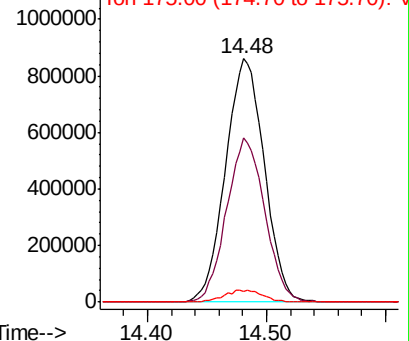
175 4.9 3.8 5.6

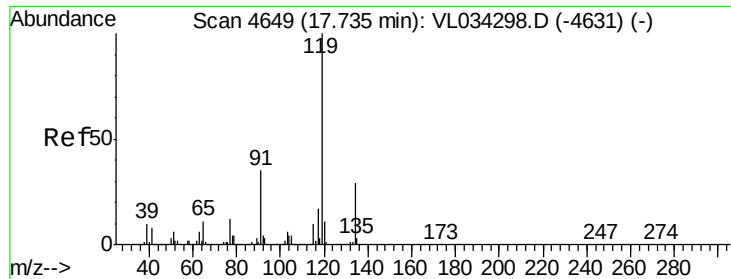


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

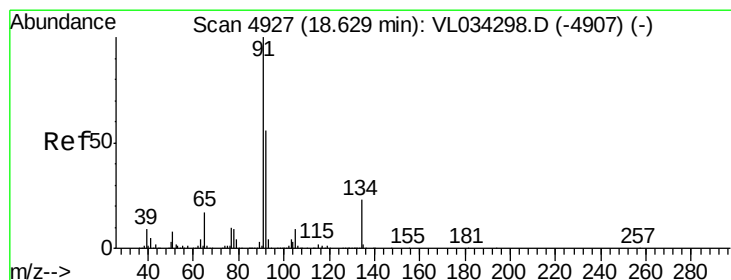
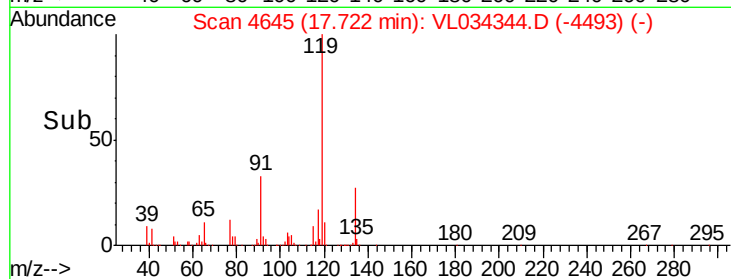
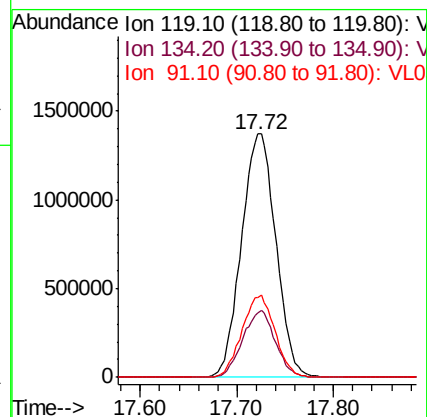
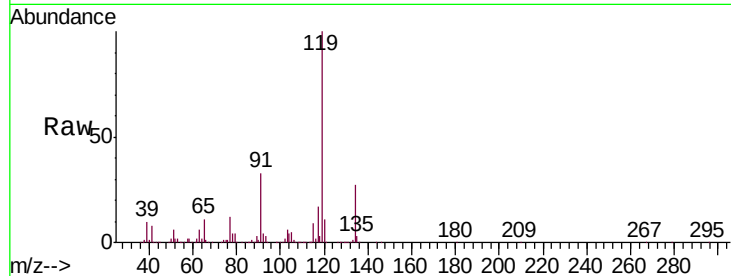




#69  
 p-Isopropyltoluene  
 Concen: 8.587 ppbv  
 RT: 17.72 min Scan# 4645  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

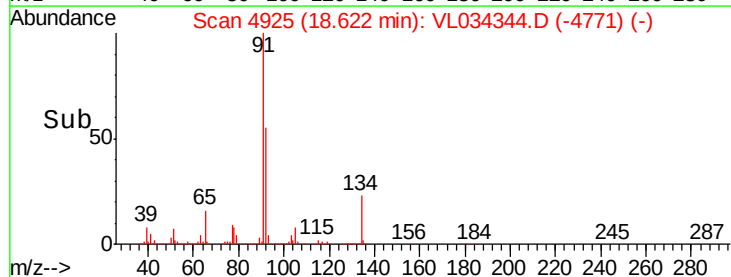
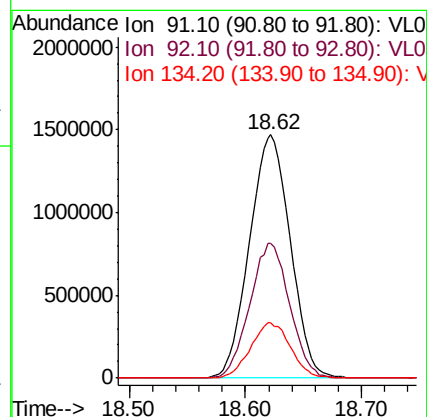
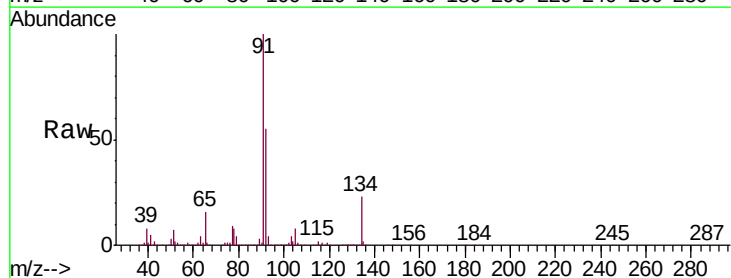
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

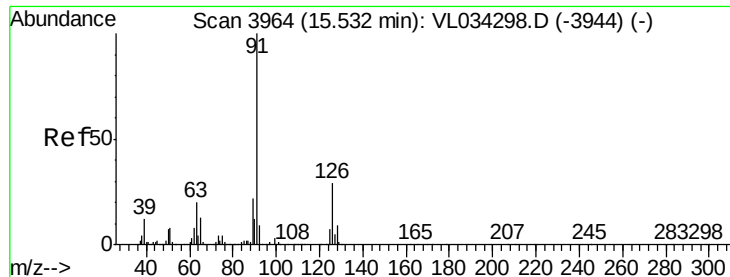
Tgt Ion: 119 Resp: 3386355  
 Ion Ratio Lower Upper  
 119 100  
 134 26.1 21.3 31.9  
 91 32.5 26.6 39.8



#70  
 n-Butylbenzene  
 Concen: 8.370 ppbv  
 RT: 18.62 min Scan# 4925  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion: 91 Resp: 3591430  
 Ion Ratio Lower Upper  
 91 100  
 92 54.3 44.5 66.7  
 134 22.3 18.2 27.2





#71

2-Chlorotoluene

Concen: 8.689 ppbv

RT: 15.52 min Scan# 3960

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

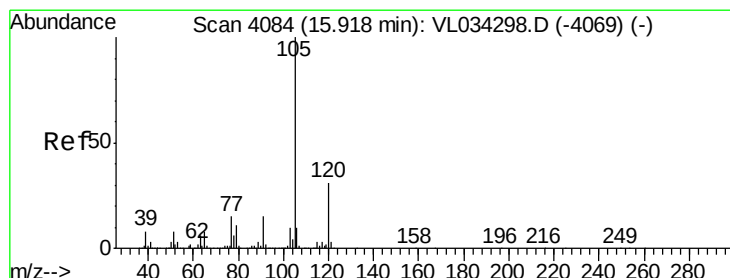
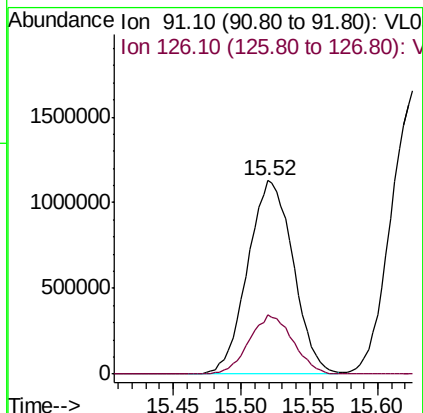
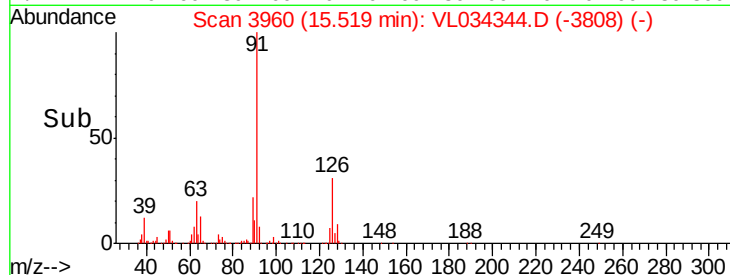
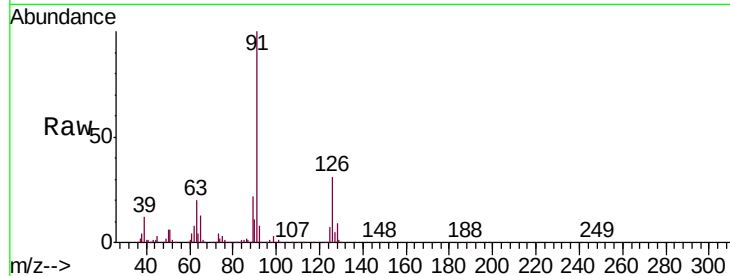
VL1024ABS01

Tgt Ion: 91 Resp: 2612938

Ion Ratio Lower Upper

91 100

126 29.6 11.9 47.5



#72

4-Ethyltoluene

Concen: 8.849 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion: 105 Resp: 2922577

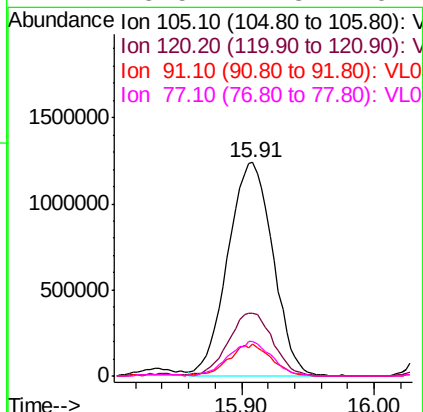
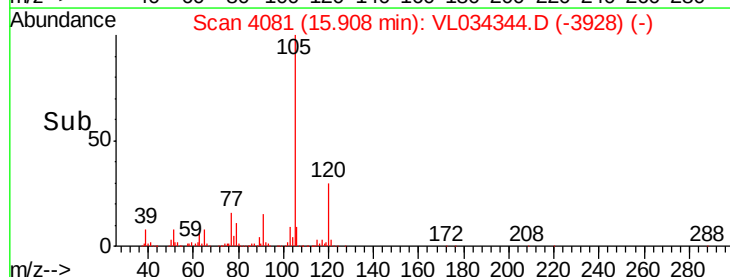
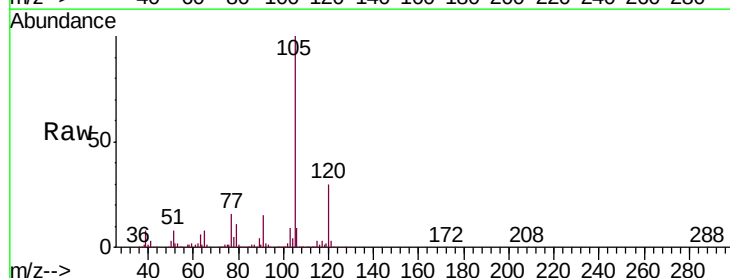
Ion Ratio Lower Upper

105 100

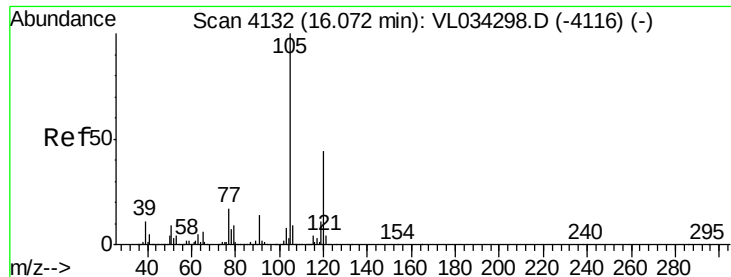
120 29.3 23.8 35.8

91 13.9 11.2 16.8

77 15.5 12.8 19.2







#73

1,3,5-Trimethylbenzene

Concen: 8.584 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

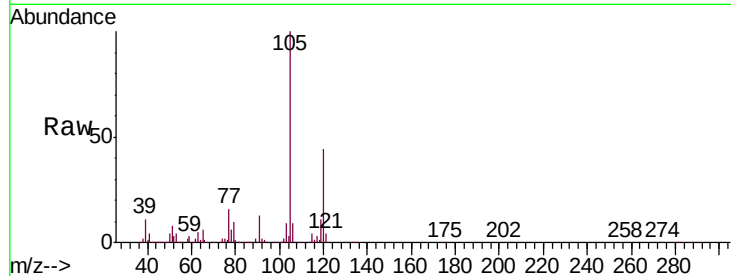
VL1024ABS01

Tgt Ion:105 Resp: 2808843

Ion Ratio Lower Upper

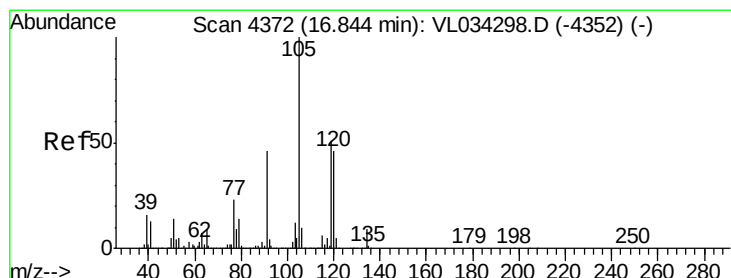
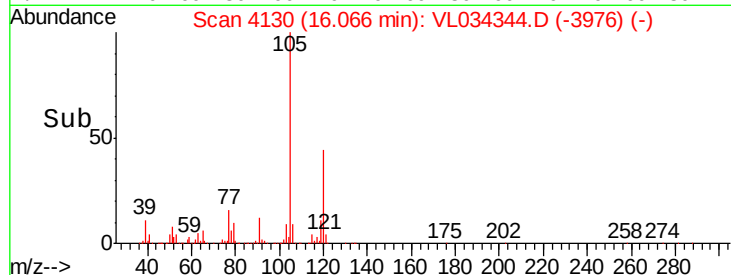
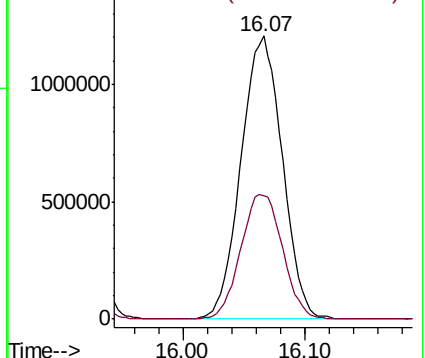
105 100

120 43.7 35.2 52.8



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: 8.367 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Tgt Ion:105 Resp: 2855297

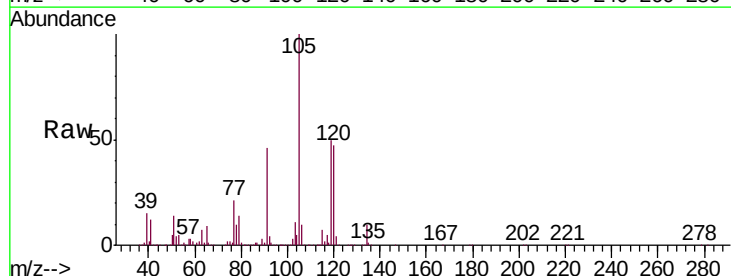
Ion Ratio Lower Upper

105 100

120 46.5 37.0 55.6

91 45.5 38.2 57.2

77 21.4 19.0 28.4

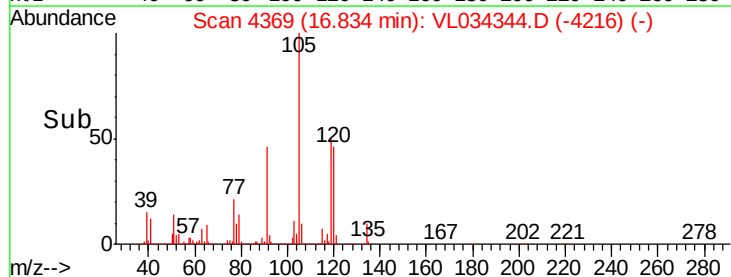
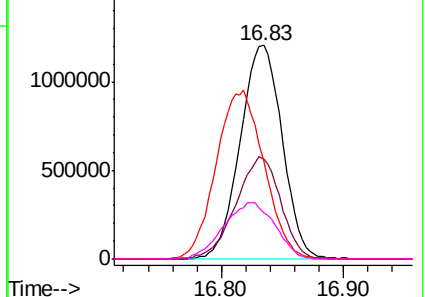


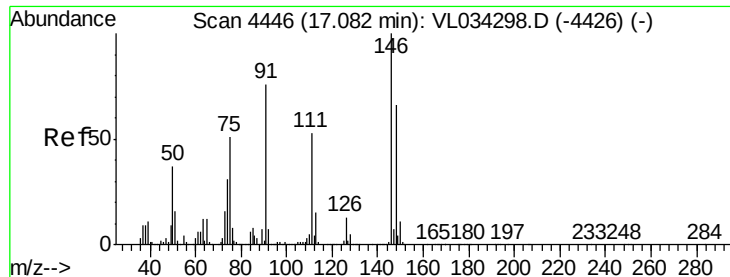
Abundance Ion 105.10 (104.80 to 105.80): V

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

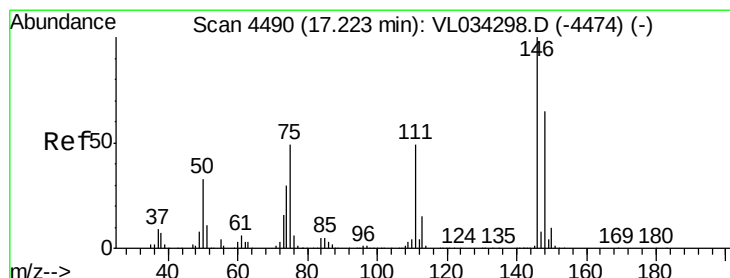
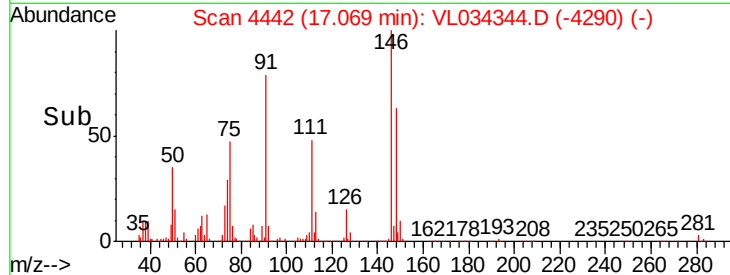
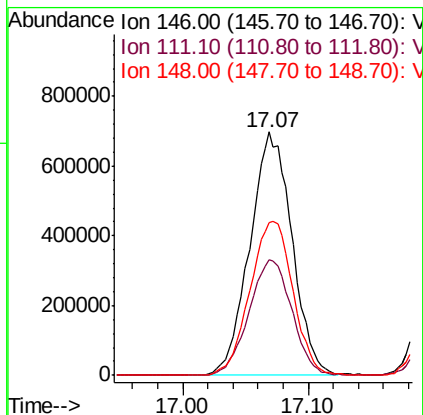
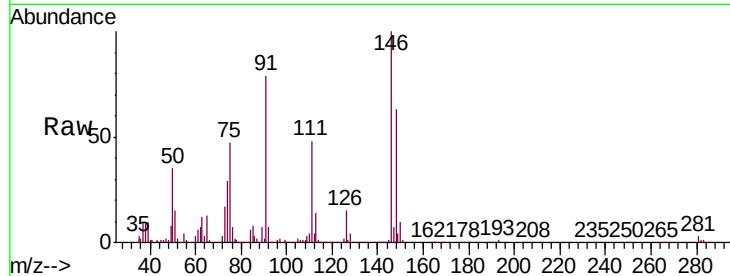




#75  
 1,3-Dichlorobenzene  
 Concen: 7.941 ppbv  
 RT: 17.07 min Scan# 4442  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

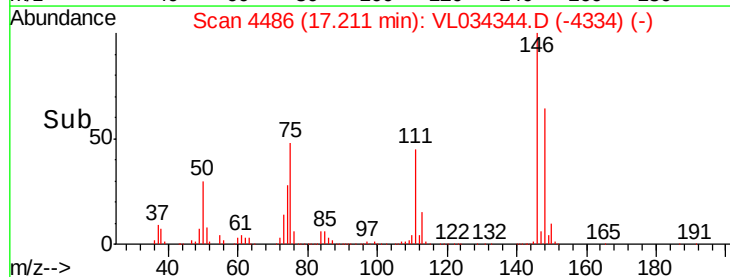
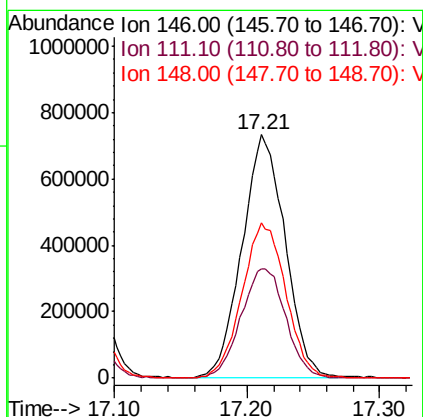
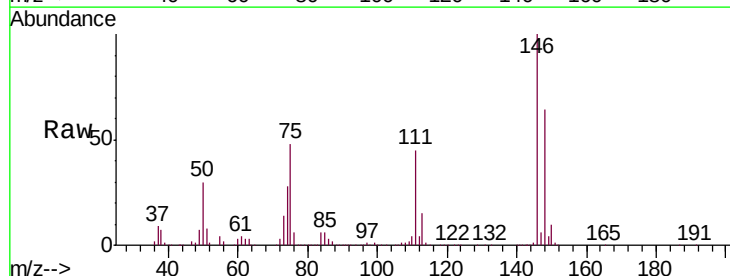
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

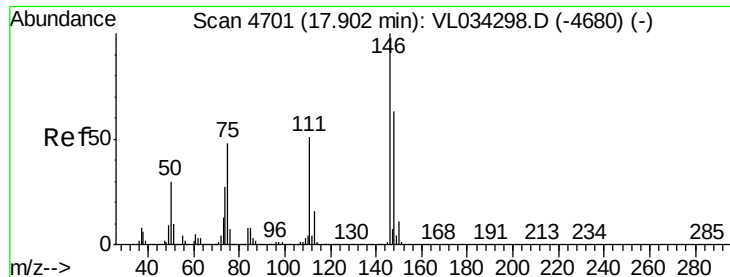
Tgt Ion:146 Resp: 1627030  
 Ion Ratio Lower Upper  
 146 100  
 111 48.6 24.5 73.5  
 148 64.7 32.3 96.8



#76  
 1,4-Dichlorobenzene  
 Concen: 8.224 ppbv  
 RT: 17.21 min Scan# 4486  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Tgt Ion:146 Resp: 1645753  
 Ion Ratio Lower Upper  
 146 100  
 111 47.3 23.9 71.7  
 148 65.6 33.1 99.2





#77

1,2-Dichlorobenzene

Concen: 7.876 ppbv

RT: 17.89 min Scan# 4698

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

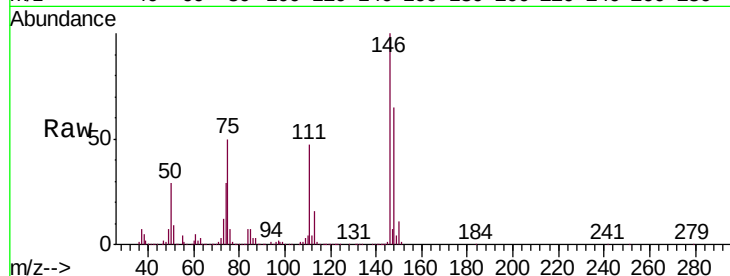
Tgt Ion:146 Resp: 1581995

Ion Ratio Lower Upper

146 100

111 49.9 25.1 75.3

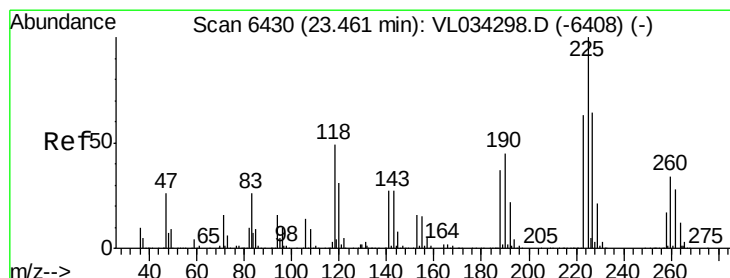
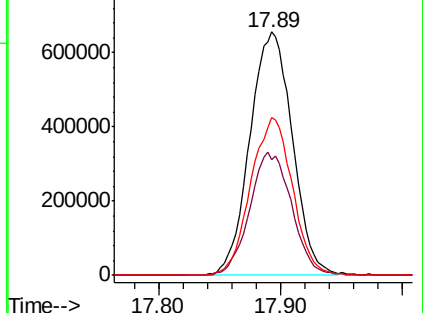
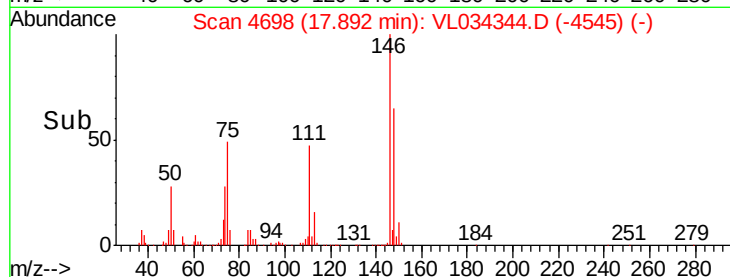
148 63.9 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.765 ppbv

RT: 23.45 min Scan# 6427

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

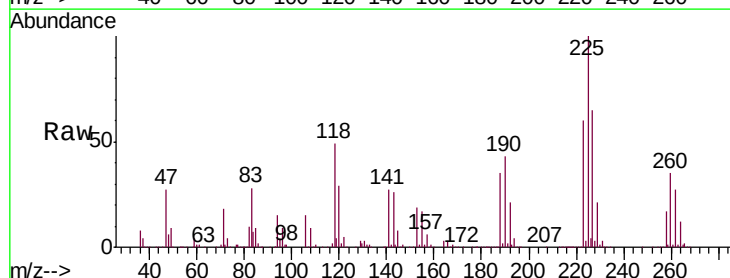
Tgt Ion:225 Resp: 1456359

Ion Ratio Lower Upper

225 100

223 62.0 50.8 76.2

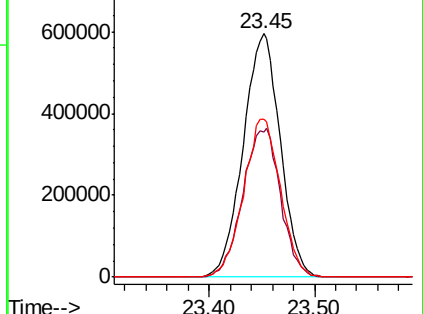
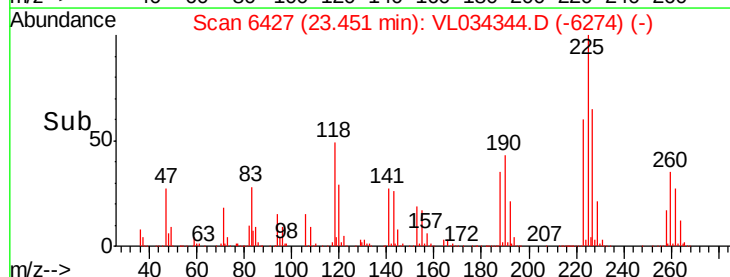
227 64.5 51.5 77.3

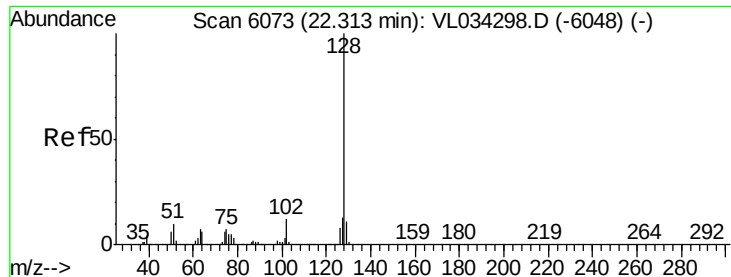


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.080 ppbv

RT: 22.29 min Scan# 6067

Delta R.T. -0.02 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

Instrument :

MSVOA\_L

ClientSampleId :

VL1024ABS01

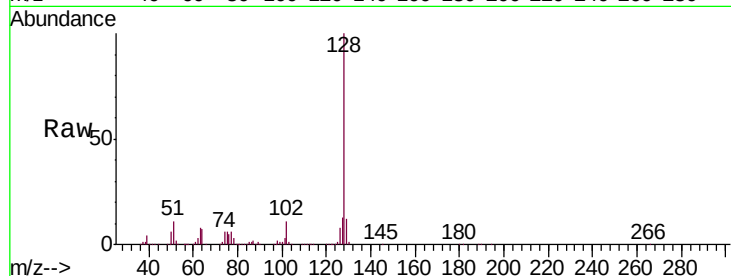
Tgt Ion:128 Resp: 2761845

Ion Ratio Lower Upper

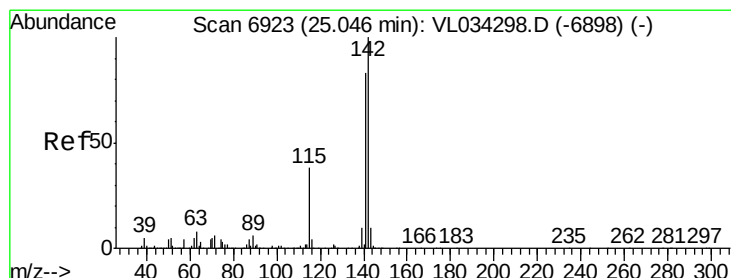
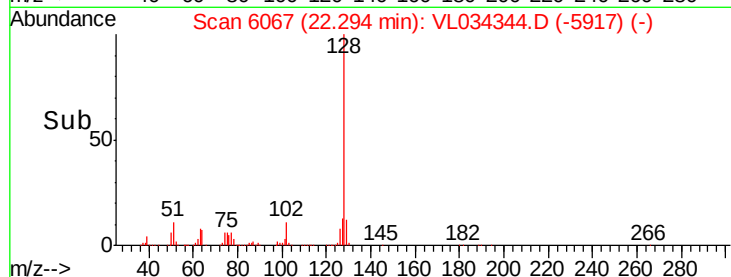
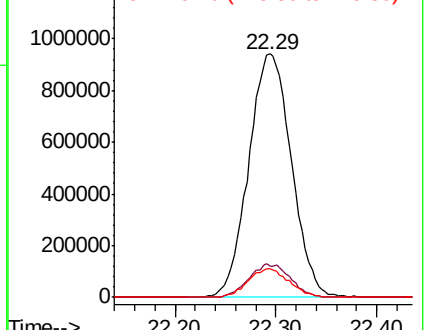
128 100

127 12.9 10.2 15.4

129 11.8 8.9 13.3



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: 18.519 ppbv

RT: 25.04 min Scan# 6920

Delta R.T. -0.01 min

Lab File: VL034344.D

Acq: 24 Oct 2019 13:01

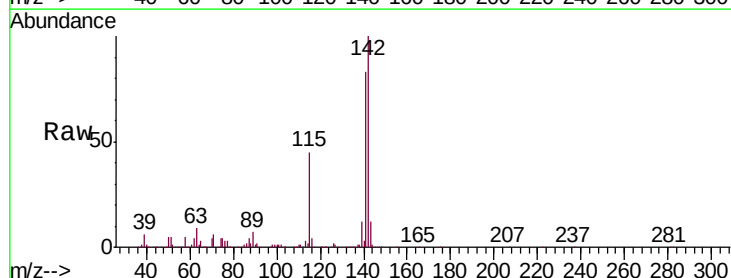
Tgt Ion:142 Resp: 1334362

Ion Ratio Lower Upper

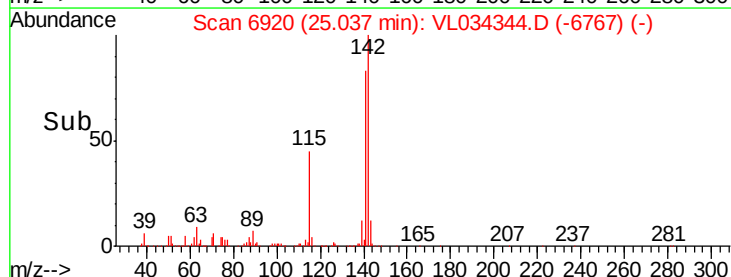
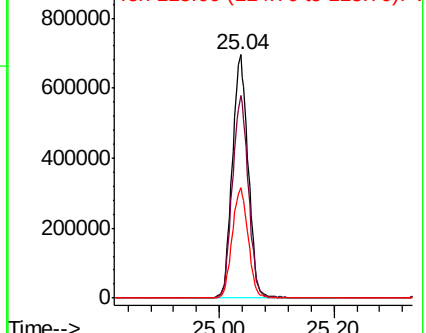
142 100

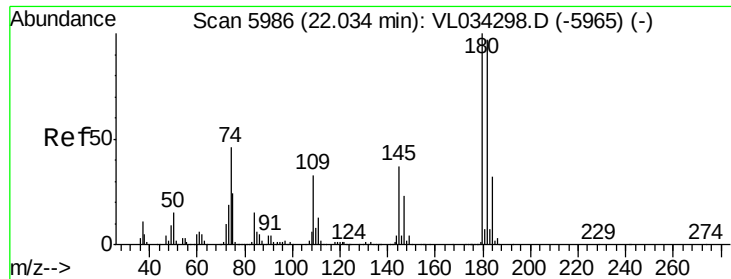
141 84.3 65.7 98.5

115 45.3 30.9 46.3



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

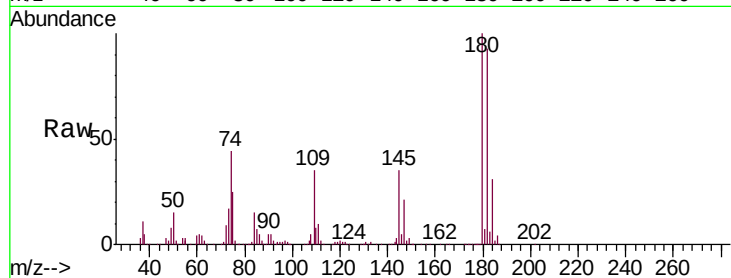




#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.945 ppbv  
 RT: 22.02 min Scan# 5983  
 Delta R.T. -0.01 min  
 Lab File: VL034344.D  
 Acq: 24 Oct 2019 13:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1024ABS01

Tgt Ion:180 Resp: 1619120  
 Ion Ratio Lower Upper  
 180 100  
 182 96.5 77.8 116.8  
 184 31.3 25.4 38.2



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

