

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\  
 Data File : VL035434.D  
 Acq On : 18 Aug 2020 2:30  
 Operator : SY/AP  
 Sample : L3699-01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DR-1

Quant Time: Aug 18 06:54:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 17 19:28:30 2020  
 QLast Update : Mon Aug 17 19:28:30 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1153082  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 5310059  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 5259706  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 3821361  | 10.38    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.80% |

| Target Compounds               |       |     |          |         | Ovalue    |
|--------------------------------|-------|-----|----------|---------|-----------|
| 2) Dichlorodifluoromethane     | 3.05  | 85  | 57238    | 0.268   | ppbv 94   |
| 3) Chlorodifluoromethane       | 2.99  | 51  | 47285    | 0.327   | ppbv 100  |
| 4) Chloromethane               | 3.14  | 50  | 19011    | 0.252   | ppbv # 84 |
| 9) Propene                     | 3.02  | 41  | 985551   | 16.959  | ppbv # 66 |
| 10) Heptane                    | 8.14  | 43  | 389748   | 2.558   | ppbv # 81 |
| 11) Trichlorofluoromethane     | 3.96  | 101 | 97463    | 0.291   | ppbv 99   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101 | 16599    | 0.066   | ppbv 84   |
| 13) Ethanol                    | 3.66  | 45  | 19495448 | 915.666 | ppbv 82   |
| 15) Acetone                    | 3.85  | 43  | 3140995  | 23.666  | ppbv 91   |
| 16) 1,3-Butadiene              | 3.31  | 39  | 135952   | 2.526   | ppbv # 9  |
| 17) tert-Butyl alcohol         | 4.36  | 59  | 352804   | 2.057   | ppbv # 80 |
| 19) Isopropyl Alcohol          | 3.66  | 45  | 19495448 | 213.121 | ppbv # 91 |
| 20) Methylene Chloride         | 4.35  | 84  | 668184   | 6.240   | ppbv # 65 |
| 21) Allyl Chloride             | 4.36  | 41  | 166364   | 2.467   | ppbv # 62 |
| 23) Vinyl Acetate              | 5.07  | 43  | 110537   | 0.583   | ppbv # 9  |
| 25) Ethyl Acetate              | 5.70  | 43  | 256413   | 0.993   | ppbv # 83 |
| 26) Hexane                     | 5.70  | 57  | 410926   | 2.820   | ppbv # 32 |
| 27) Carbon Disulfide           | 4.56  | 76  | 123114   | 0.584   | ppbv # 91 |
| 29) Chloroform                 | 5.76  | 83  | 60607    | 0.207   | ppbv 98   |
| 30) Cyclohexane                | 7.14  | 84  | 103183   | 0.638   | ppbv # 57 |
| 34) 2-Butanone                 | 5.26  | 43  | 254822   | 1.436   | ppbv # 72 |
| 35) Carbon Tetrachloride       | 7.03  | 117 | 23446    | 0.083   | ppbv 98   |
| 36) Benzene                    | 6.90  | 78  | 407738   | 1.046   | ppbv # 91 |
| 39) 1,2-Dichloropropane        | 7.19  | 63  | 921468   | 7.174   | ppbv # 23 |
| 40) 1,4-Dioxane                | 7.86  | 88  | 2922     | 0.042   | ppbv # 1  |
| 41) Tetrahydrofuran            | 6.06  | 42  | 32793    | 0.335   | ppbv # 38 |
| 42) Bromodichloromethane       | 7.81  | 83  | 25159    | 0.084   | ppbv # 32 |
| 44) 2,2,4-Trimethylpentane     | 7.89  | 57  | 684085   | 1.344   | ppbv # 89 |
| 51) 2-Hexanone                 | 10.17 | 43  | 15929    | 0.074   | ppbv # 25 |
| 52) Tetrachloroethene          | 11.25 | 164 | 373019   | 1.569   | ppbv # 82 |
| 53) Toluene                    | 9.83  | 91  | 3021164  | 6.019   | ppbv 100  |
| 58) Ethyl Benzene              | 12.74 | 91  | 1832320  | 2.886   | ppbv # 89 |
| 59) m/p-Xylene                 | 13.00 | 91  | 4975855  | 9.271   | ppbv # 81 |
| 60) o-Xylene                   | 13.72 | 91  | 2297777  | 4.405   | ppbv 87   |
| 61) Styrene                    | 13.55 | 104 | 49377    | 0.117   | ppbv # 89 |
| 62) Isopropylbenzene           | 14.70 | 105 | 374646   | 0.438   | ppbv 95   |
| 64) n-propylbenzene            | 15.59 | 120 | 674250   | 2.559   | ppbv # 63 |
| 65) tert-Butylbenzene          | 16.80 | 119 | 1334254  | 1.606   | ppbv # 88 |
| 66) Benzyl Chloride            | 17.24 | 91  | 139433   | 0.698   | ppbv # 68 |
| 67) sec-Butylbenzene           | 17.33 | 105 | 242288   | 0.222   | ppbv 93   |
| 69) p-Isopropyltoluene         | 17.57 | 119 | 396951   | 0.409   | ppbv 94   |

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

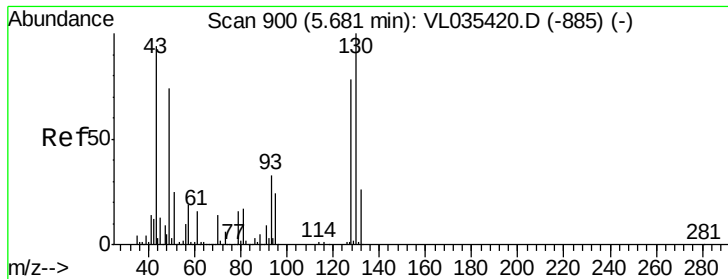
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DR-1

Quant Time: Aug 18 06:54:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 17 19:28:30 2020  
 QLast Update : Mon Aug 17 19:28:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 70) n-Butylbenzene         | 18.59 | 91   | 819795   | 0.895  | ppbv # | 56       |
| 71) 2-Chlorotoluene        | 15.59 | 91   | 2578483  | 4.157  | ppbv # | 46       |
| 72) 4-Ethyltoluene         | 15.87 | 105  | 3561703  | 5.203  | ppbv # | 91       |
| 73) 1,3,5-Trimethylbenzene | 16.03 | 105  | 2946626  | 4.626  | ppbv # | 86       |
| 74) 1,2,4-Trimethylbenzene | 16.80 | 105  | 9027409  | 13.043 | ppbv # | 68       |
| 79) Naphthalene            | 22.25 | 128  | 831209   | 0.853  | ppbv   | 97       |
| 80) Naphthalene,2-methyl-  | 25.32 | 142  | 26175    | 0.065  | ppbv   | 95       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

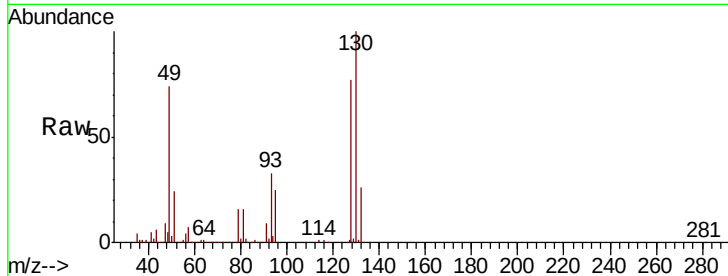
MSVOA\_L

ClientSampleId :

DR-1

Tot Ion: 49 Resp: 1153082

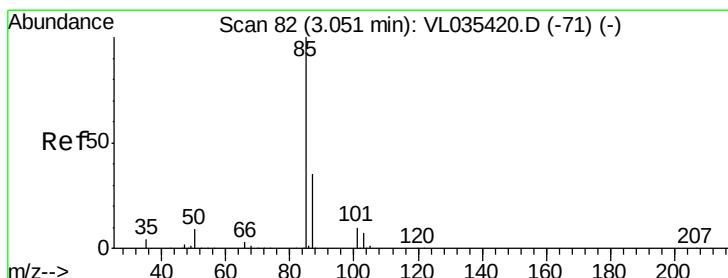
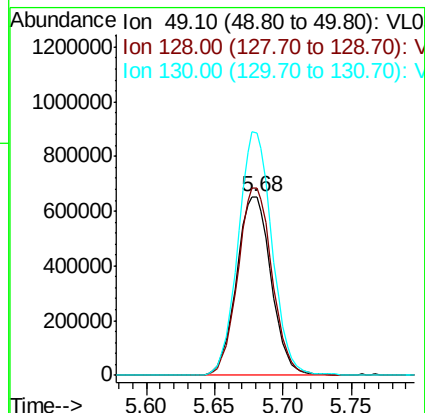
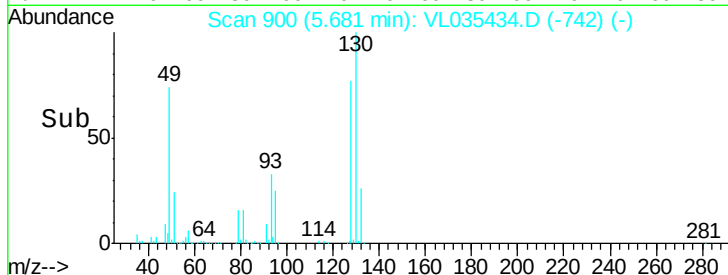
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 103.7 | 20.9  | 62.7# |
| 130 | 134.3 | 26.7  | 80.1# |



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



#2

Dichlorodifluoromethane

Concen: 0.268 ppbv

RT: 3.05 min Scan# 82

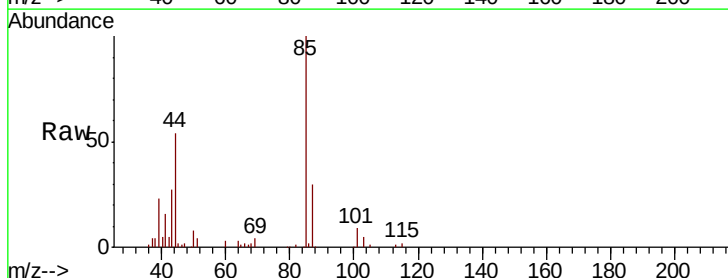
Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

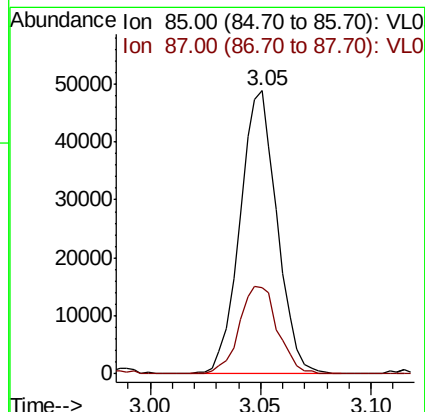
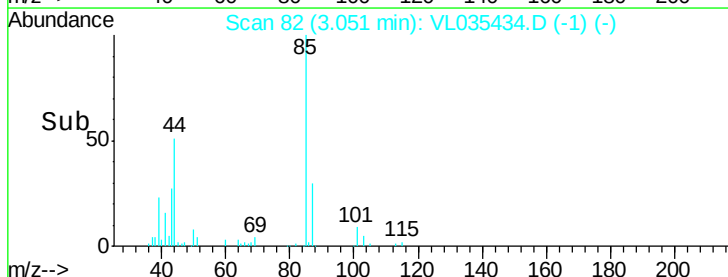
Tgt Ion: 85 Resp: 57238

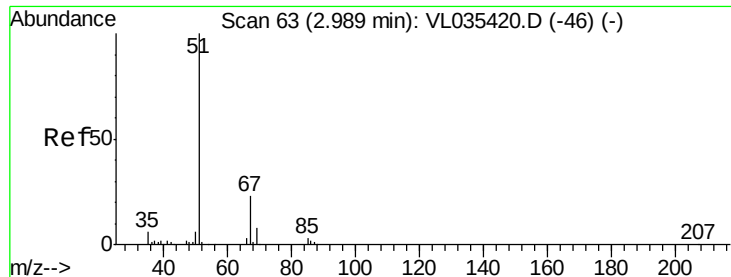
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 30.3  | 27.1  | 40.7  |



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.327 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

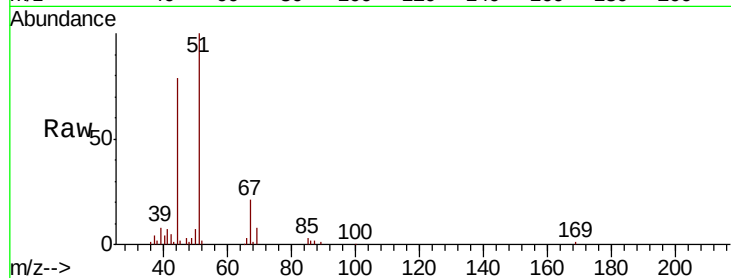
DR-1

Tot Ion: 51 Resp: 47285

Ion Ratio Lower Upper

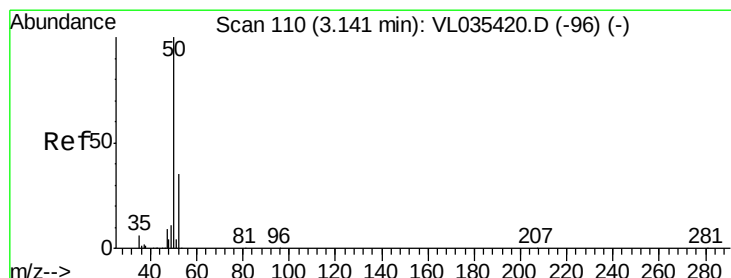
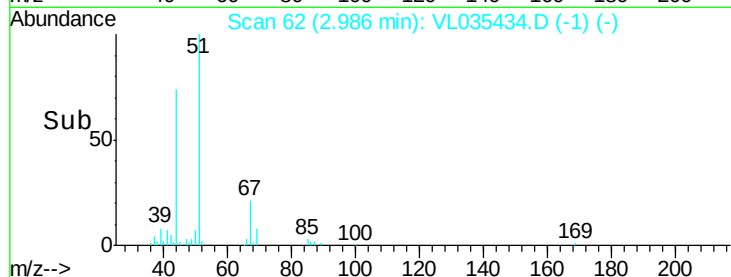
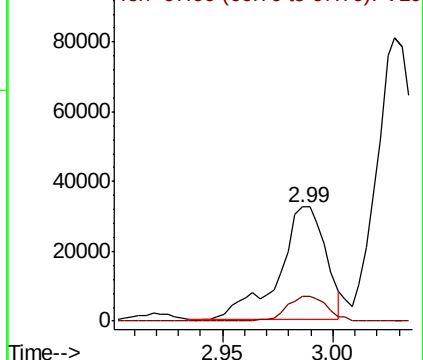
51 100

67 18.7 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.252 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL035434.D

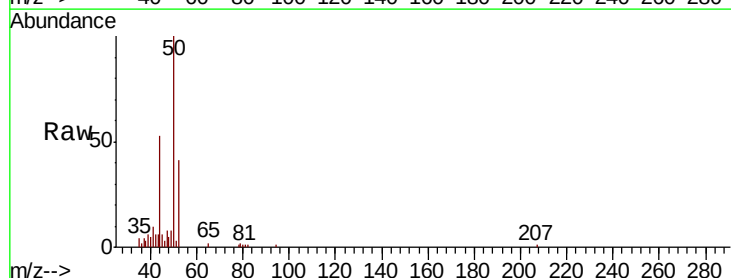
Acq: 18 Aug 2020 2:30

Tgt Ion: 50 Resp: 19011

Ion Ratio Lower Upper

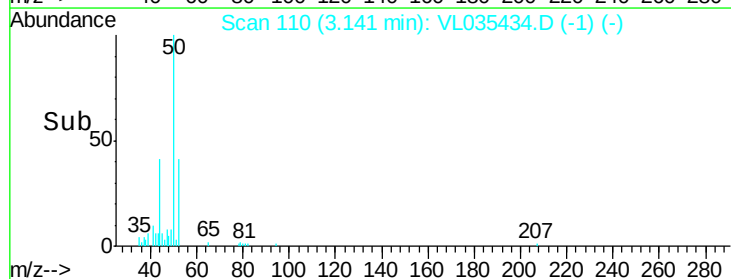
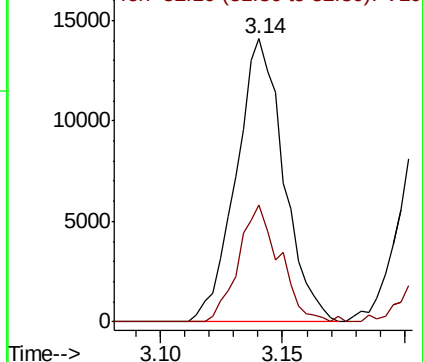
50 100

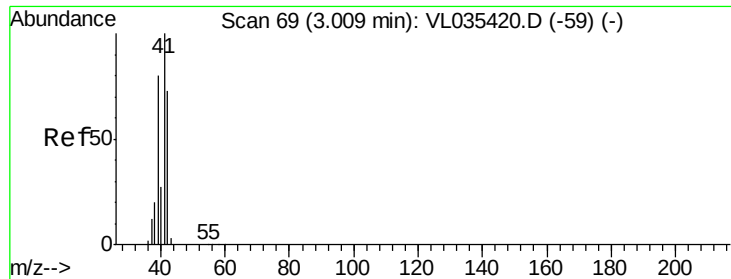
52 41.4 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 16.959 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

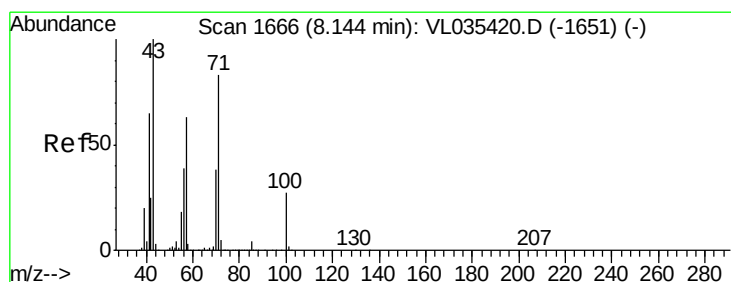
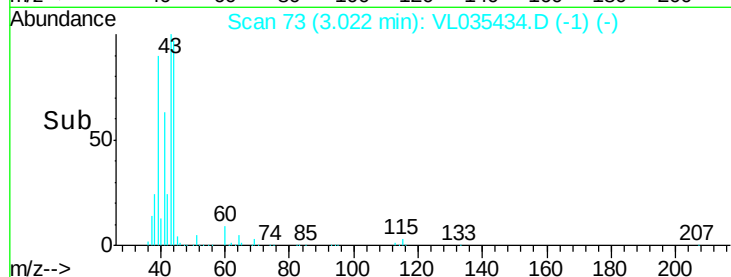
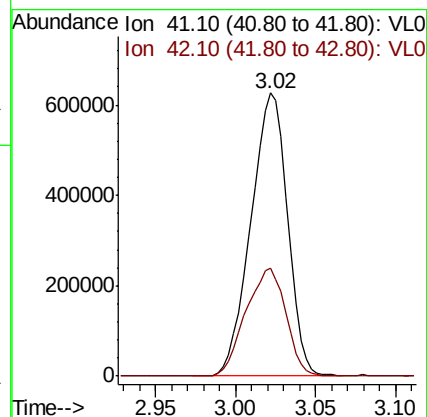
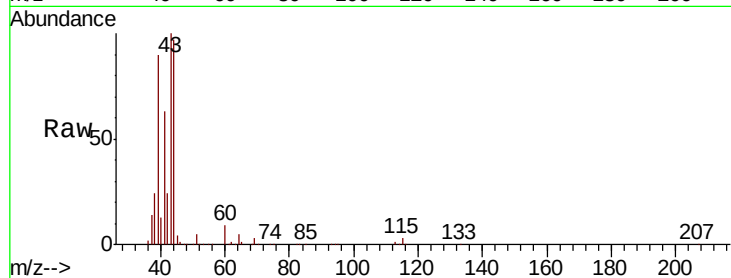
DR-1

Tot Ion: 41 Resp: 985551

Ion Ratio Lower Upper

41 100

42 41.7 55.5 83.3#



#10

Heptane

Concen: 2.558 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL035434.D

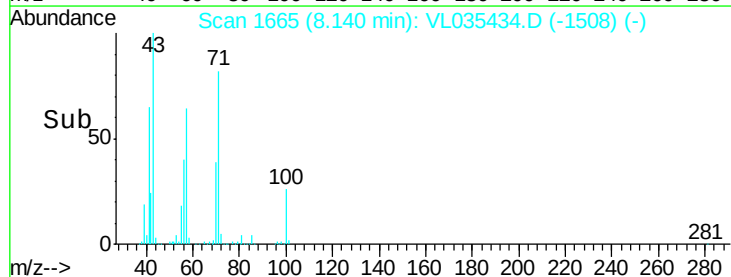
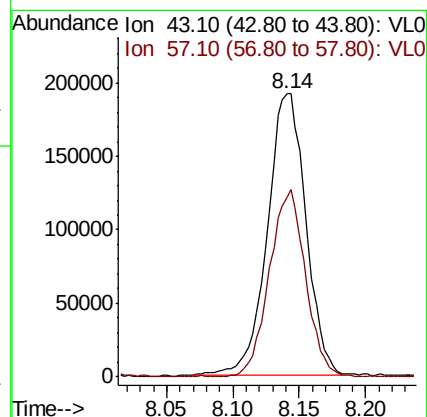
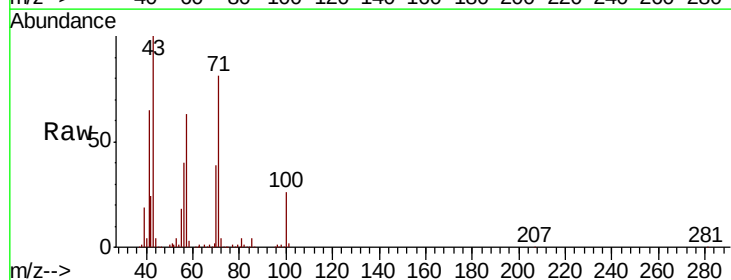
Acq: 18 Aug 2020 2:30

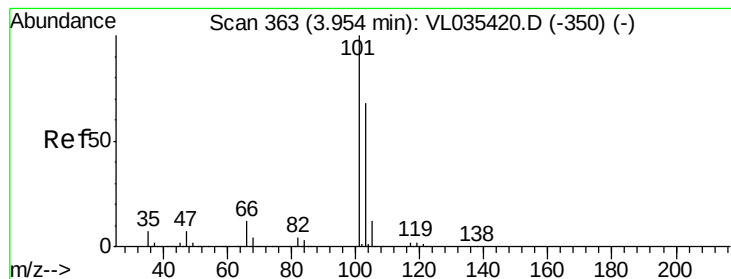
Tgt Ion: 43 Resp: 389748

Ion Ratio Lower Upper

43 100

57 62.7 39.8 59.6#





#11

Trichlorofluoromethane

Concen: 0.291 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

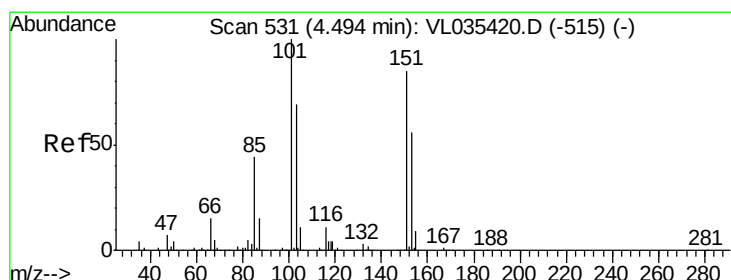
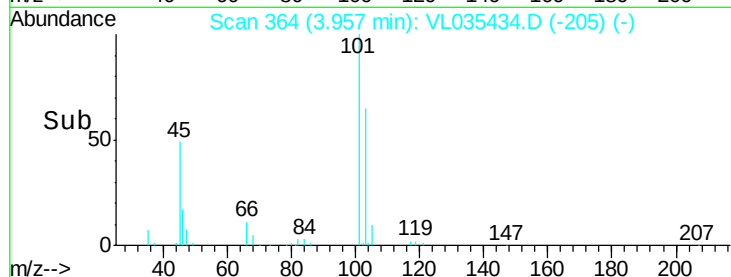
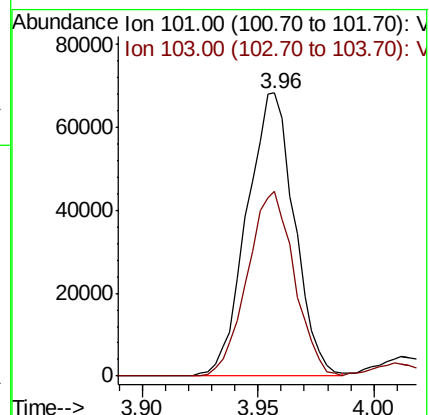
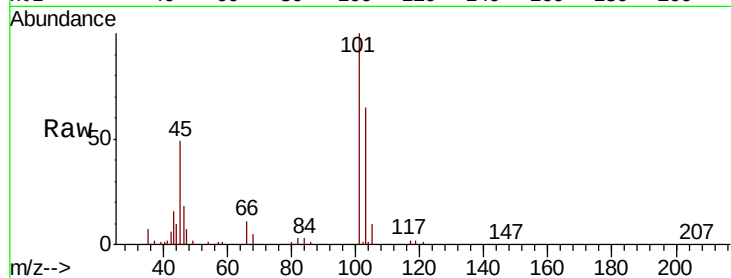
DR-1

Tot Ion:101 Resp: 97463

Ion Ratio Lower Upper

101 100

103 65.3 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.066 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL035434.D

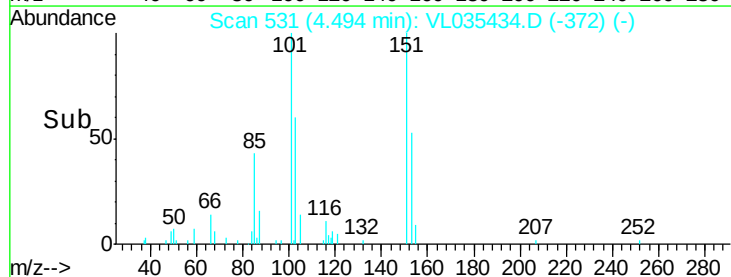
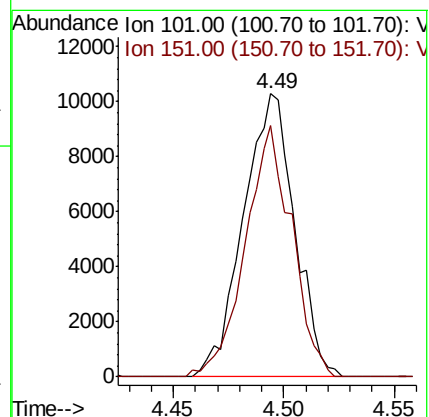
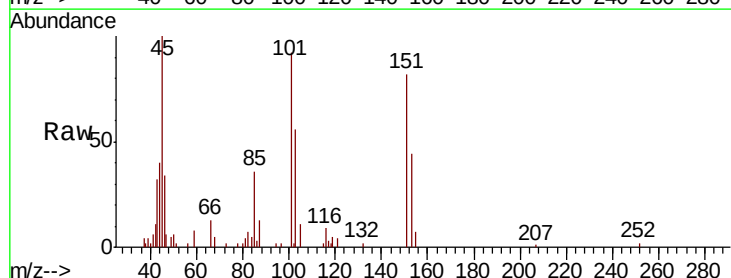
Acq: 18 Aug 2020 2:30

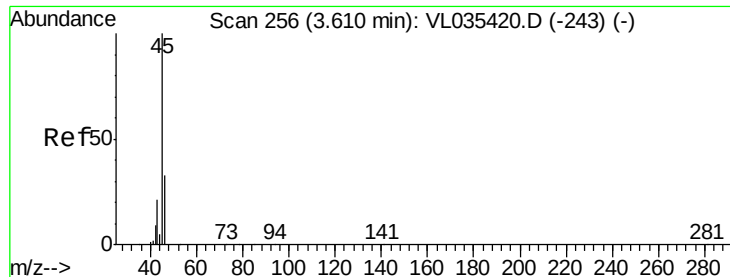
Tgt Ion:101 Resp: 16599

Ion Ratio Lower Upper

101 100

151 80.0 53.6 80.4





#13

Ethanol

Concen: 915.666 ppbv

RT: 3.66 min Scan# 270

Delta R.T. 0.05 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

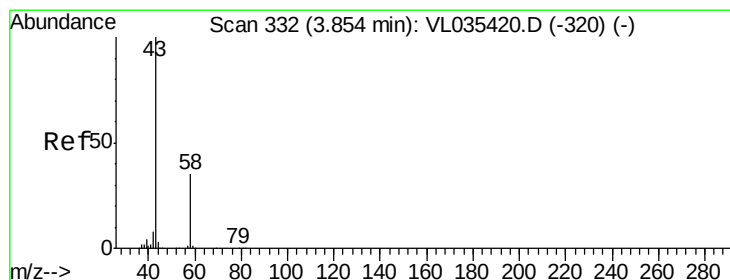
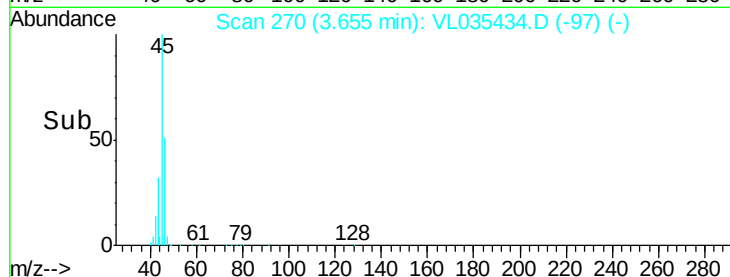
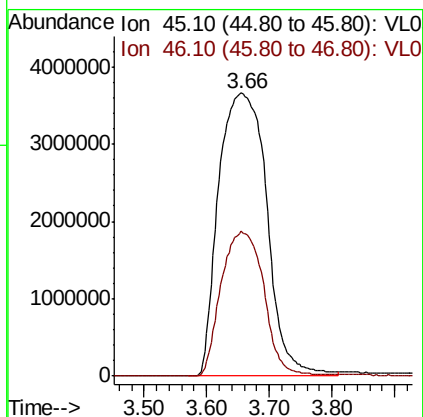
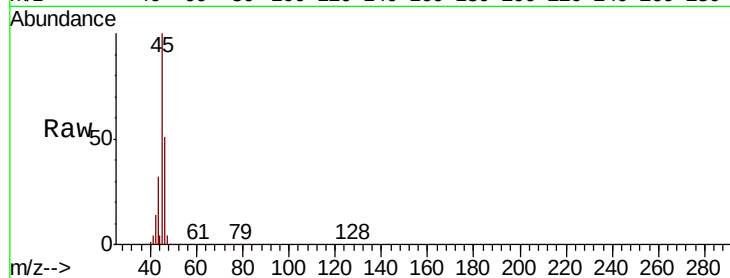
DR-1

Tot Ion: 45 Resp:19495448

Ion Ratio Lower Upper

45 100

46 45.7 14.2 56.6



#15

Acetone

Concen: 23.666 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035434.D

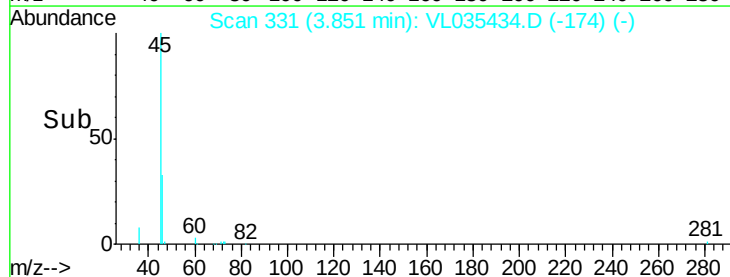
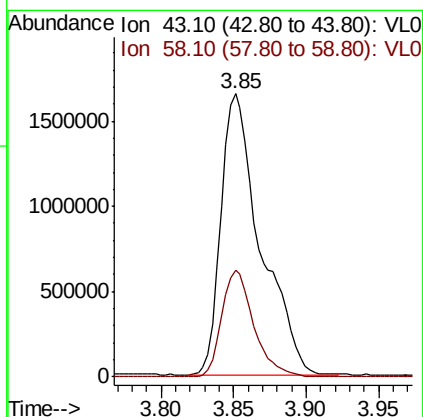
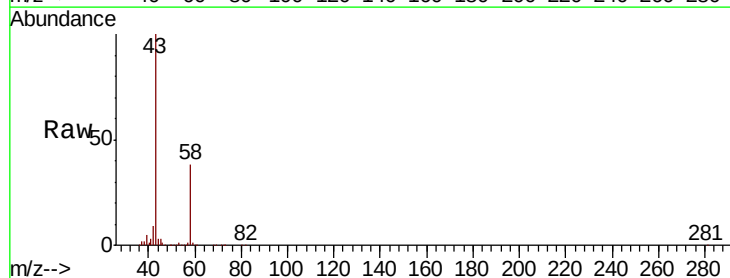
Acq: 18 Aug 2020 2:30

Tgt Ion: 43 Resp: 3140995

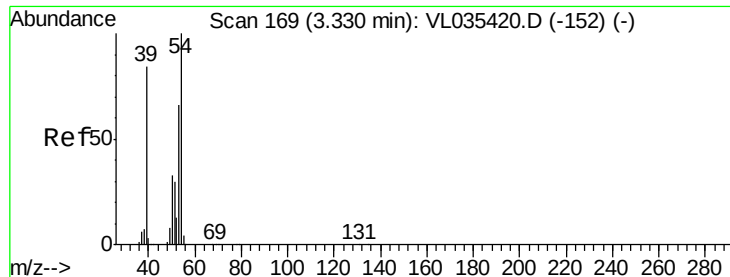
Ion Ratio Lower Upper

43 100

58 30.7 21.0 31.6



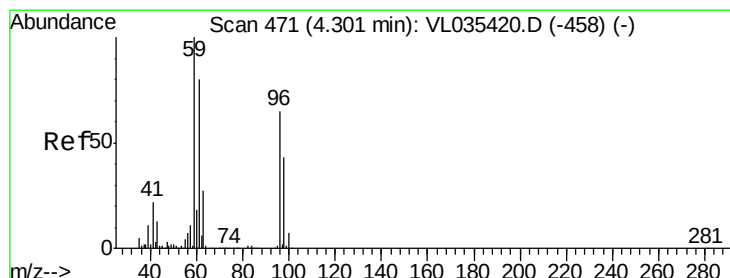
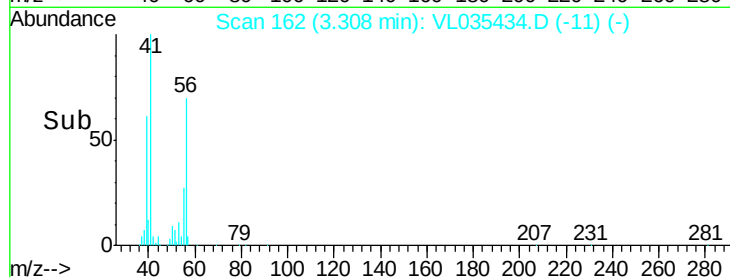
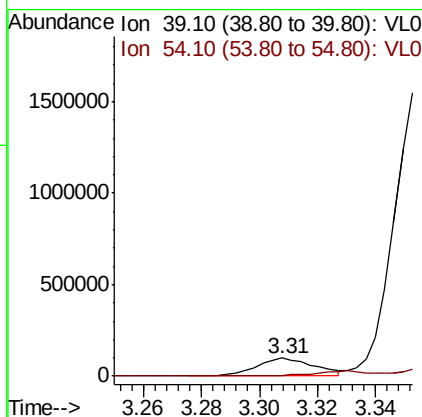
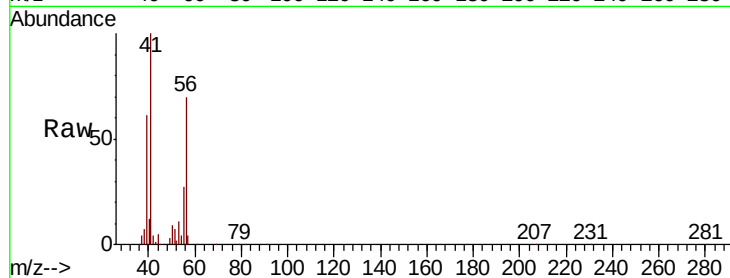




#16  
 1,3-Butadiene  
 Concen: 2.526 ppbv  
 RT: 3.31 min Scan# 162  
 Delta R.T. -0.02 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

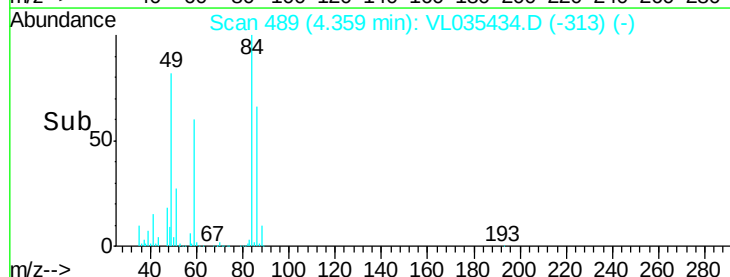
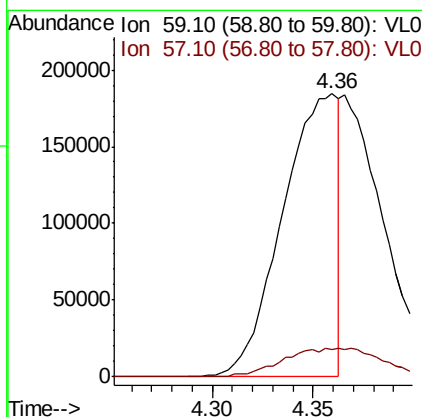
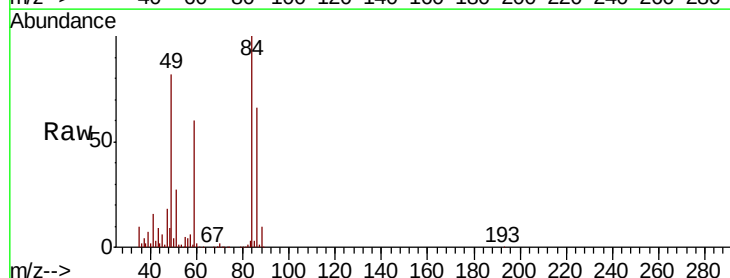
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DR-1

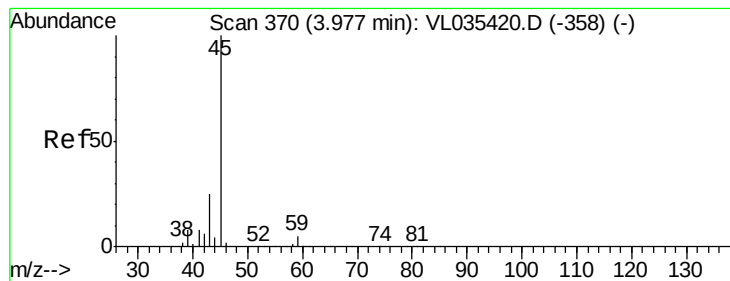
Tot Ion: 39 Resp: 135952  
 Ion Ratio Lower Upper  
 39 100  
 54 0.0 64.4 96.6#



#17  
 tert-Butyl alcohol  
 Concen: 2.057 ppbv  
 RT: 4.36 min Scan# 489  
 Delta R.T. 0.06 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

Tgt Ion: 59 Resp: 352804  
 Ion Ratio Lower Upper  
 59 100  
 57 18.8 8.9 13.3#





#19

Isopropyl Alcohol

Concen: 213.121 ppbv

RT: 3.66 min Scan# 270

Delta R.T. -0.31 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

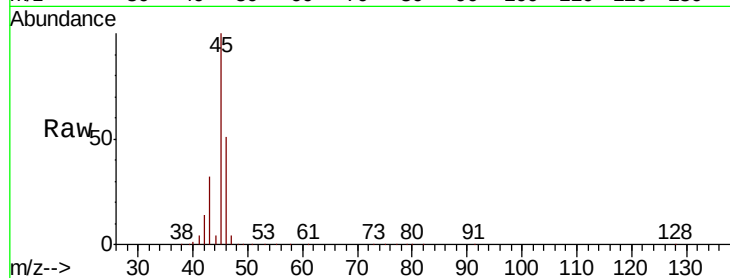
DR-1

Tot Ion: 45 Resp:19495448

Ion Ratio Lower Upper

45 100

58 5.0 1.0 1.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.66

4000000

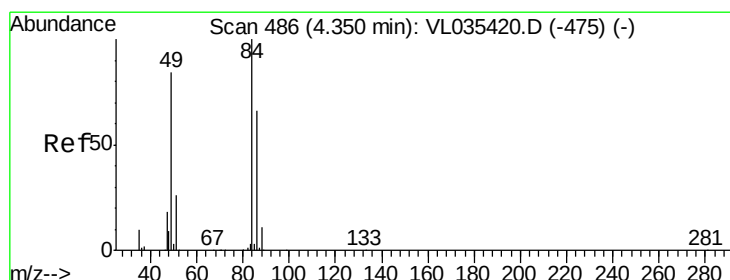
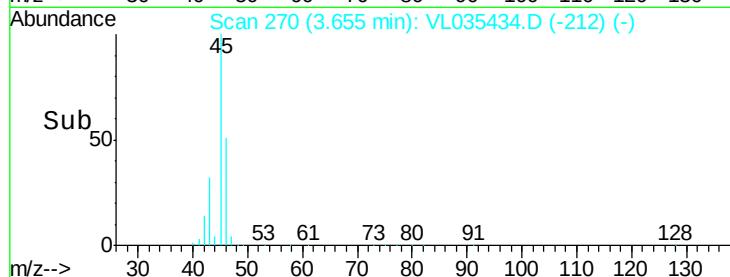
3000000

2000000

1000000

0

Time-->



#20

Methylene Chloride

Concen: 6.240 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Tgt Ion: 84 Resp: 668184

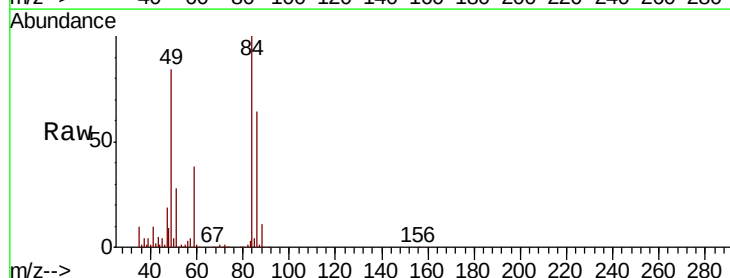
Ion Ratio Lower Upper

84 100

49 83.8 118.6 177.8#

51 28.3 36.4 54.6#

86 64.5 50.2 75.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

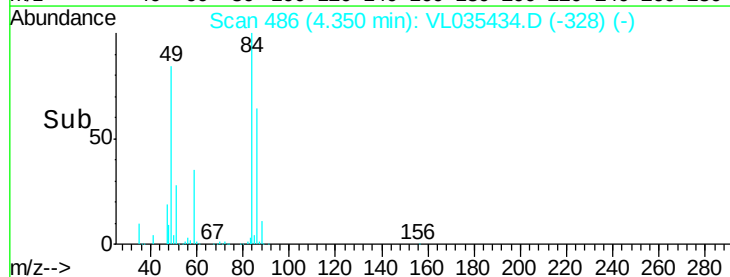
600000

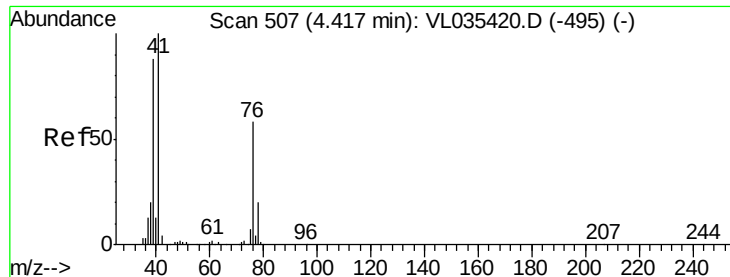
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 2.467 ppbv

RT: 4.36 min Scan# 489

Delta R.T. -0.05 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

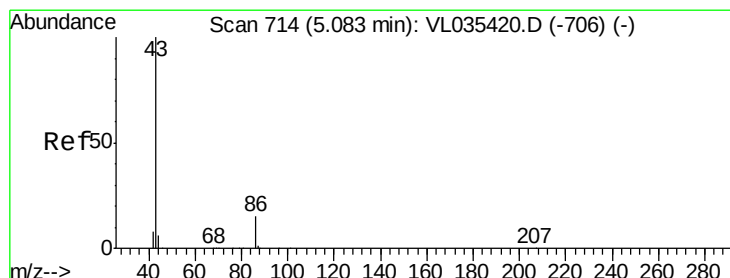
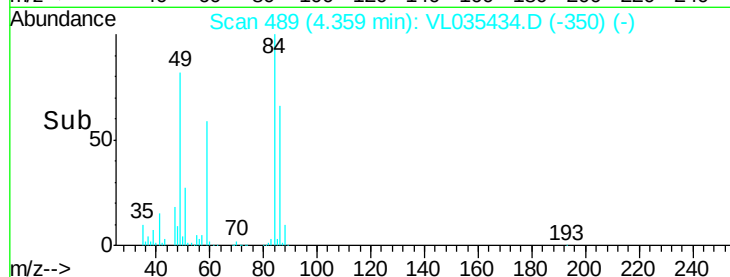
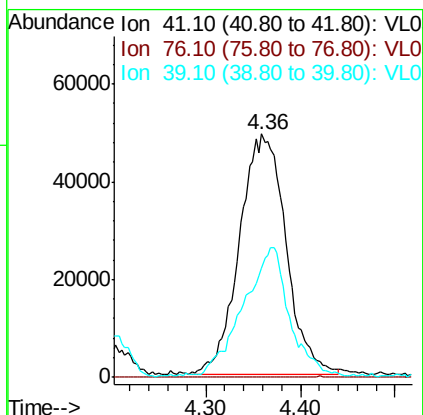
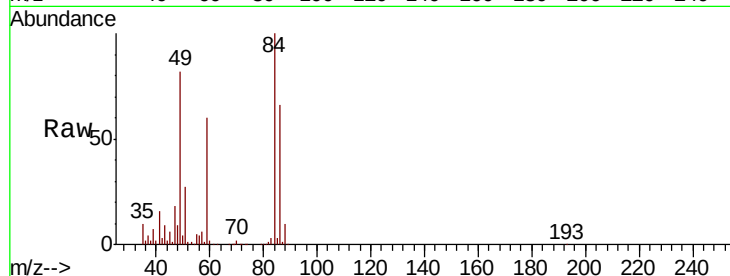
Tot Ion: 41 Resp: 166364

Ion Ratio Lower Upper

41 100

76 0.0 22.8 34.2#

39 54.0 66.2 99.2#



#23

Vinyl Acetate

Concen: 0.583 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Tgt Ion: 43 Resp: 110537

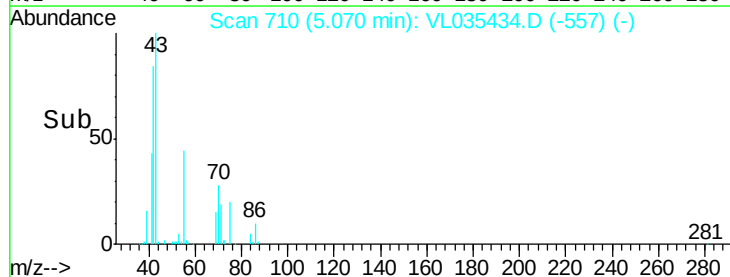
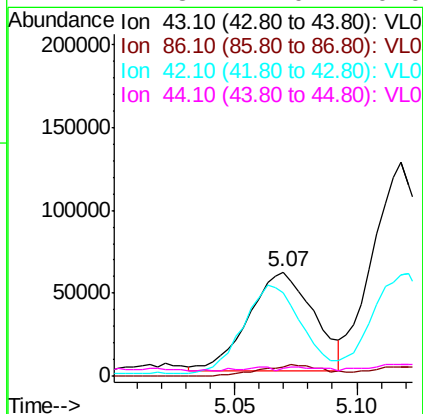
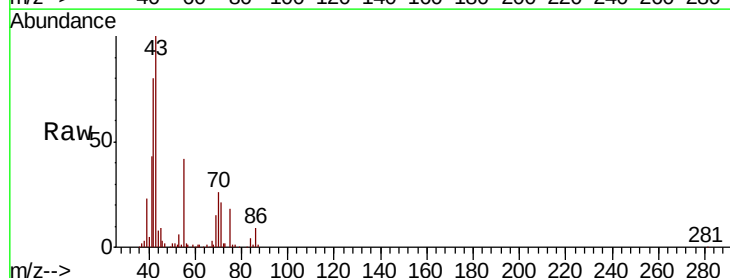
Ion Ratio Lower Upper

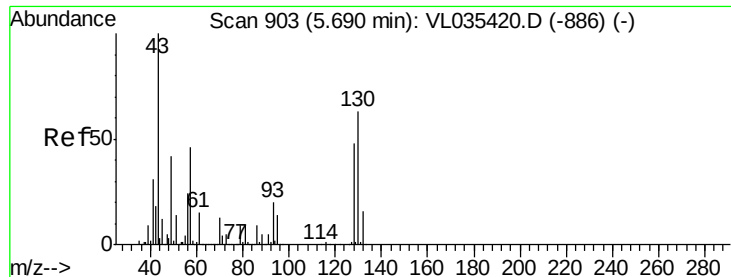
43 100

86 10.2 6.5 9.7#

42 84.6 8.3 12.5#

44 2.8 4.0 6.0#





#25

Ethyl Acetate

Concen: 0.993 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

Tot Ion: 43 Resp: 256413

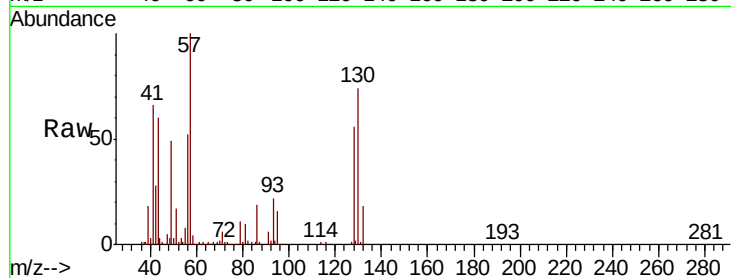
Ion Ratio Lower Upper

43 100

45 2.6 8.3 12.5#

61 2.6 7.6 11.4#

70 3.9 6.0 9.0#

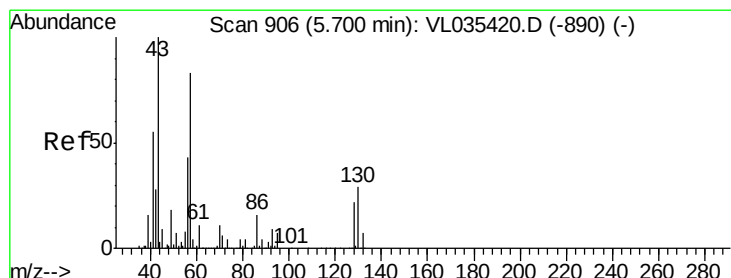
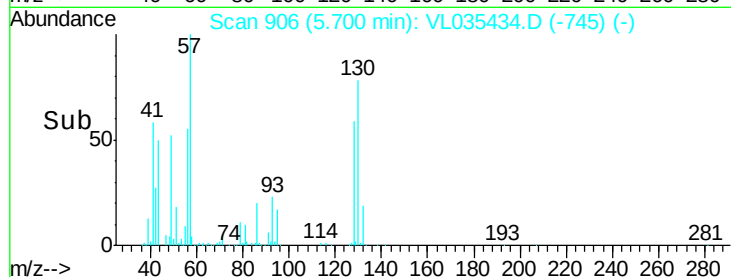
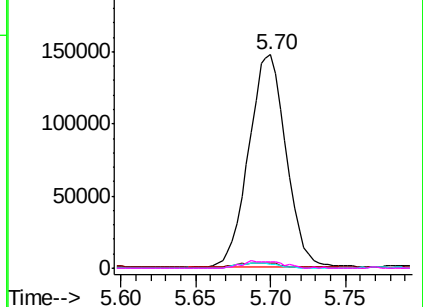


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.820 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Tgt Ion: 57 Resp: 410926

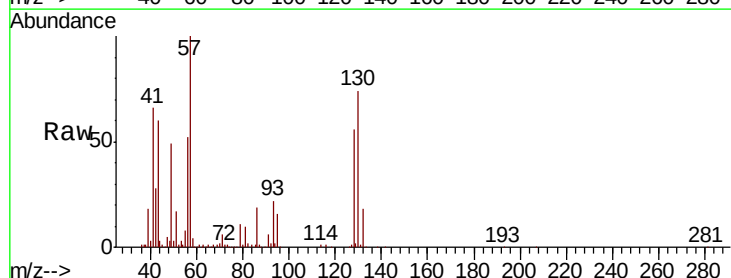
Ion Ratio Lower Upper

57 100

41 68.0 75.5 113.3#

43 62.4 181.7 272.5#

56 52.2 42.4 63.6

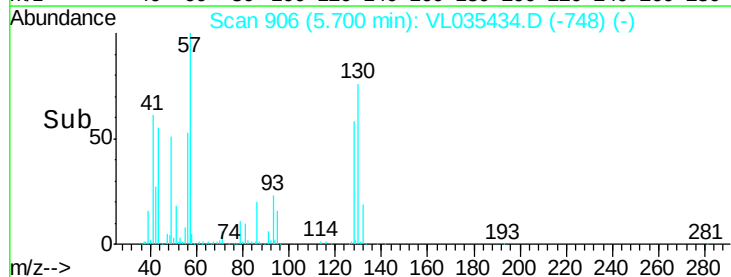
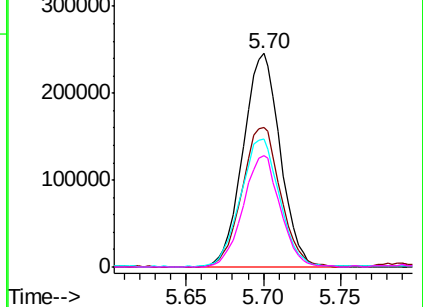


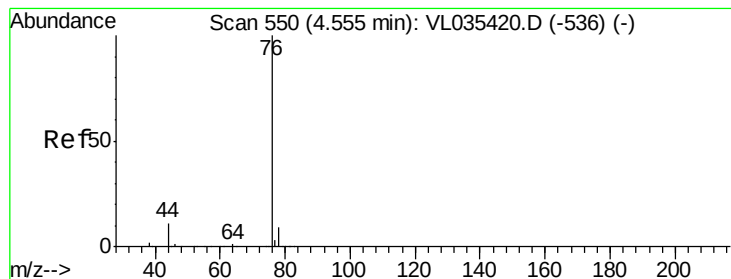
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.584 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

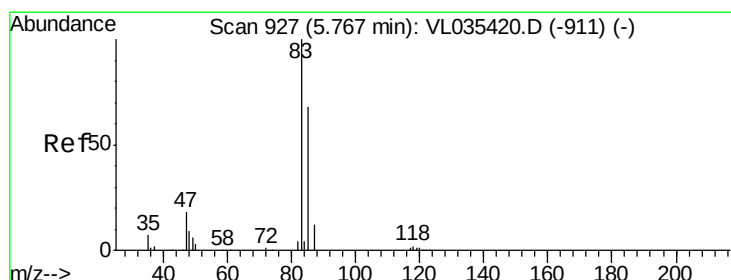
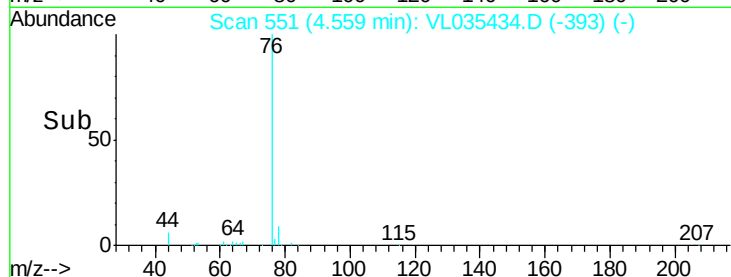
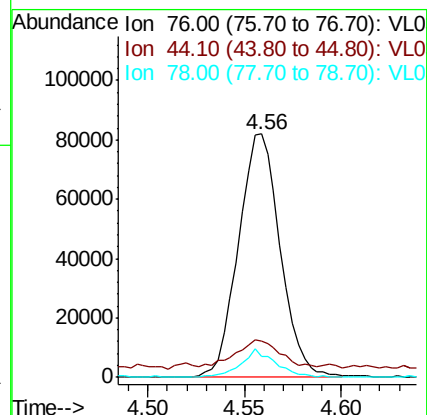
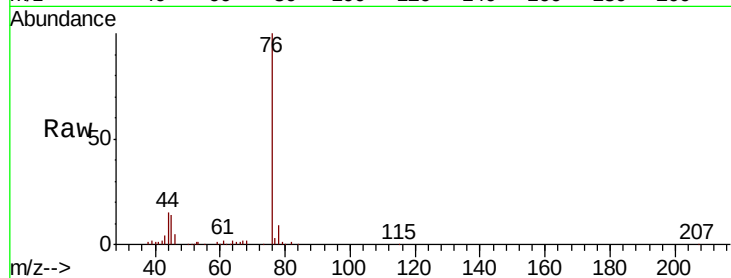
MSVOA\_L

ClientSampleId :

DR-1

Tot Ion: 76 Resp: 123114

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 15.2  | 16.8  | 25.2# |
| 78  | 10.0  | 7.3   | 10.9  |



#29

Chloroform

Concen: 0.207 ppbv

RT: 5.76 min Scan# 926

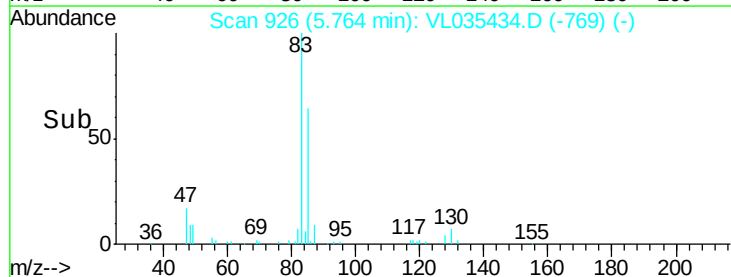
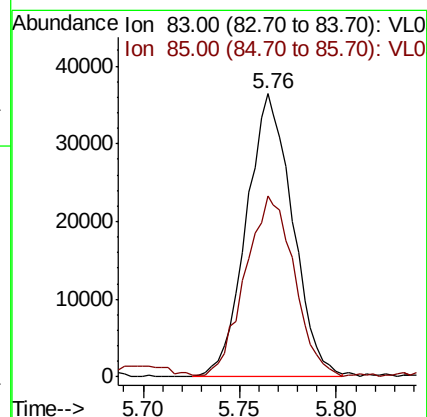
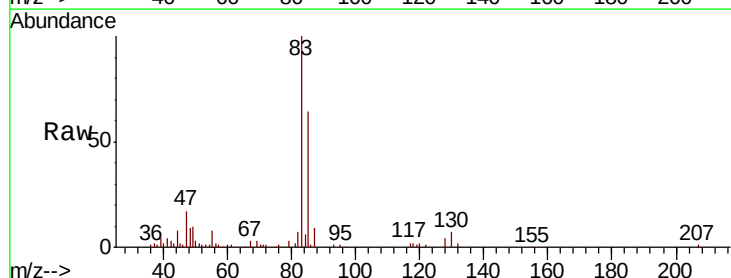
Delta R.T. 0.00 min

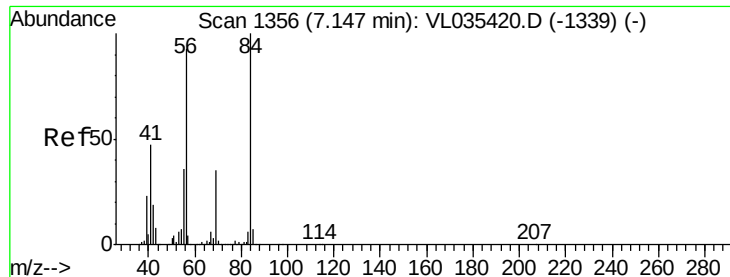
Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Tgt Ion: 83 Resp: 60607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.9  | 52.7  | 79.1  |





#30

Cyclohexane

Concen: 0.638 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

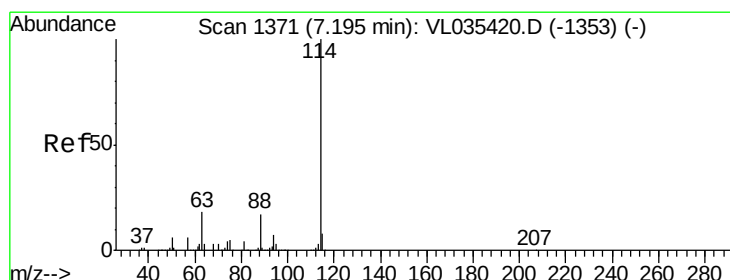
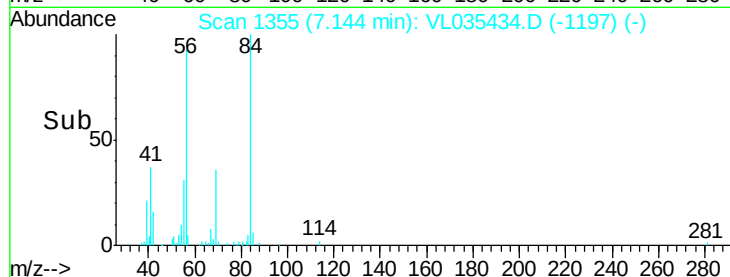
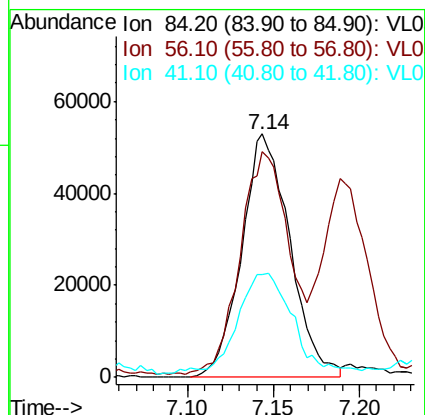
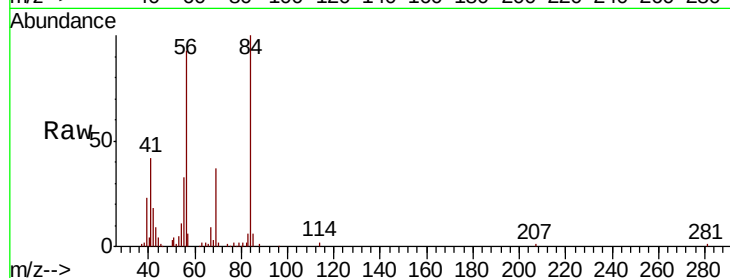
Tot Ion: 84 Resp: 103183

Ion Ratio Lower Upper

84 100

56 91.8 114.9 172.3#

41 48.9 72.3 108.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

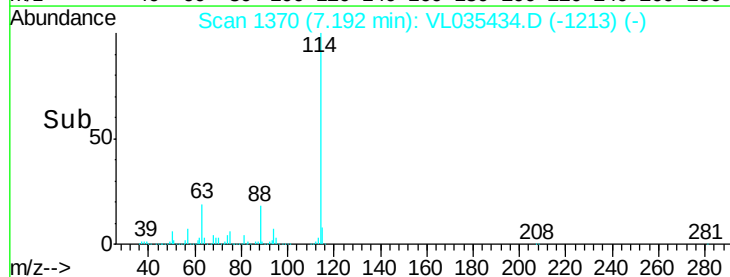
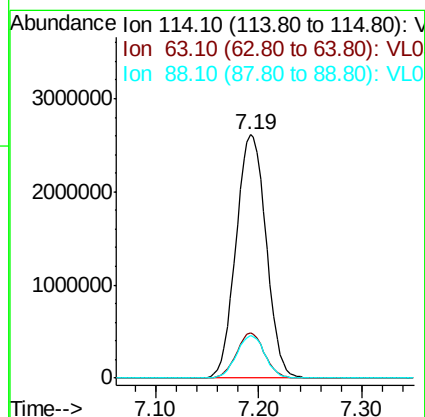
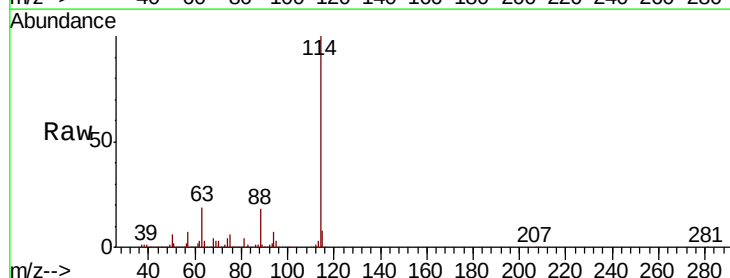
Tgt Ion: 114 Resp: 5310059

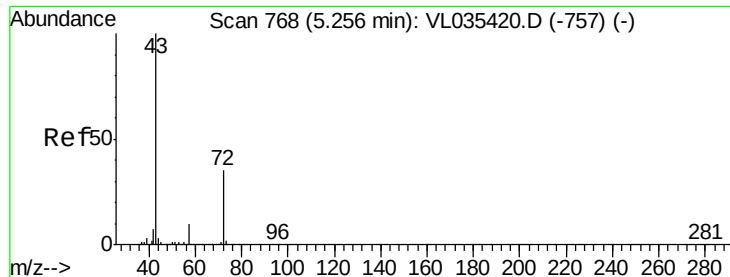
Ion Ratio Lower Upper

114 100

63 17.4 23.1 34.7#

88 16.5 15.9 23.9

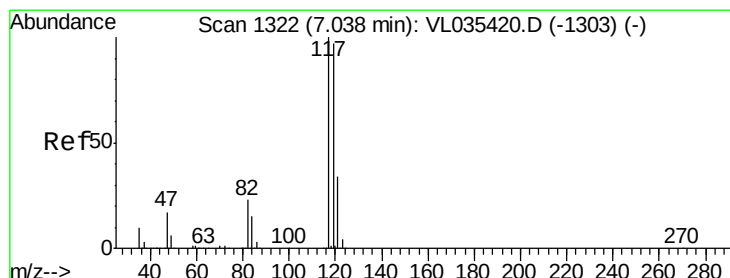
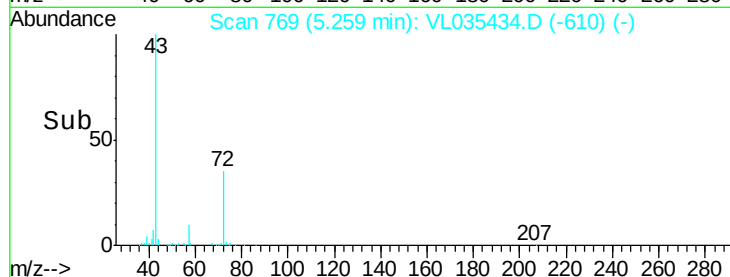
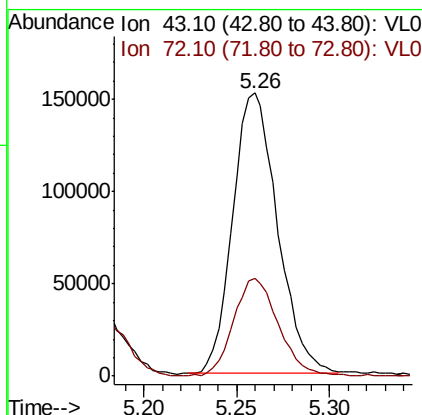
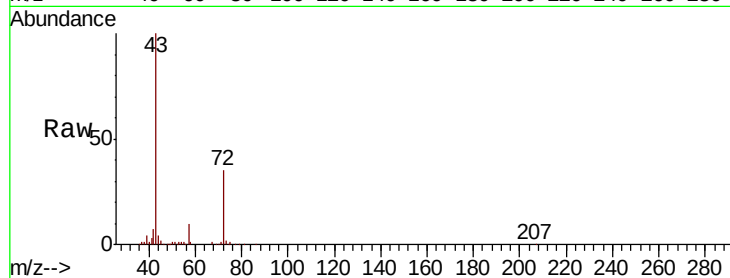




#34  
2-Butanone  
Concen: 1.436 ppbv  
RT: 5.26 min Scan# 769  
Delta R.T. 0.01 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

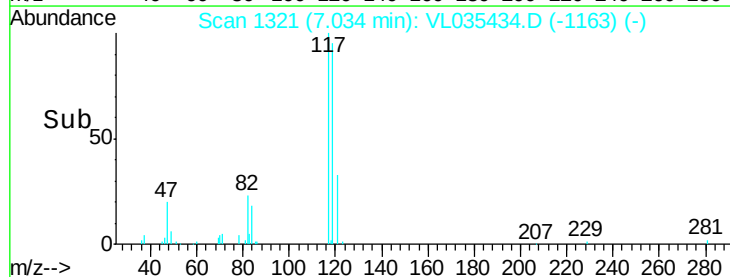
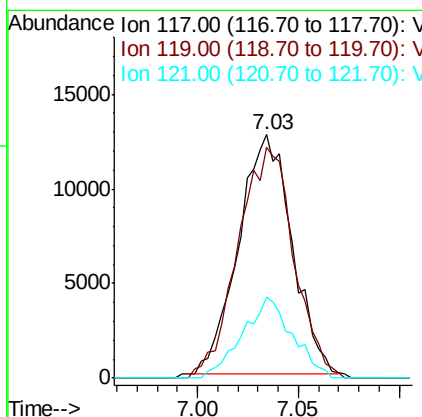
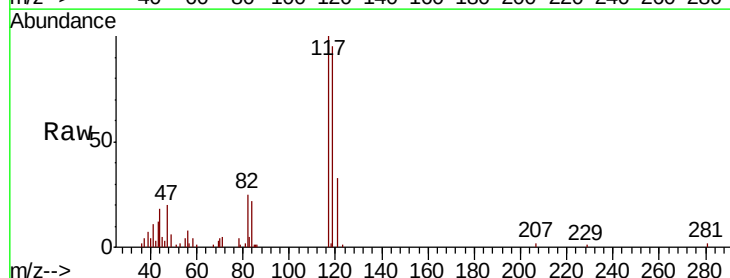
Instrument :  
MSVOA\_L  
ClientSampled :  
DR-1

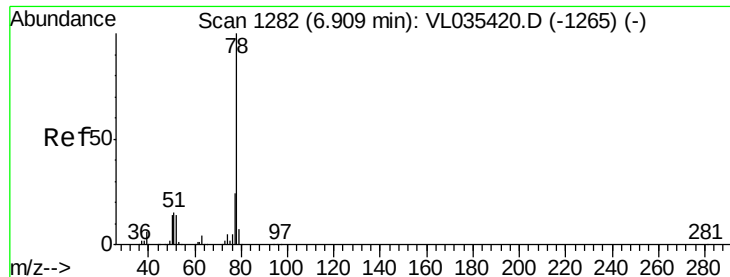
Tot Ion: 43 Resp: 254822  
Ion Ratio Lower Upper  
43 100  
72 35.2 17.6 26.4#



#35  
Carbon Tetrachloride  
Concen: 0.083 ppbv  
RT: 7.03 min Scan# 1321  
Delta R.T. 0.01 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

Tgt Ion: 117 Resp: 23446  
Ion Ratio Lower Upper  
117 100  
119 96.6 76.1 114.1  
121 33.8 25.5 38.3

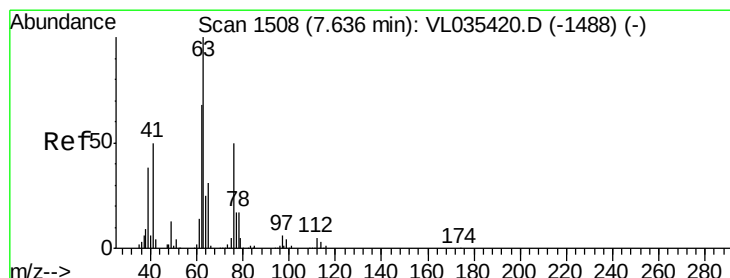
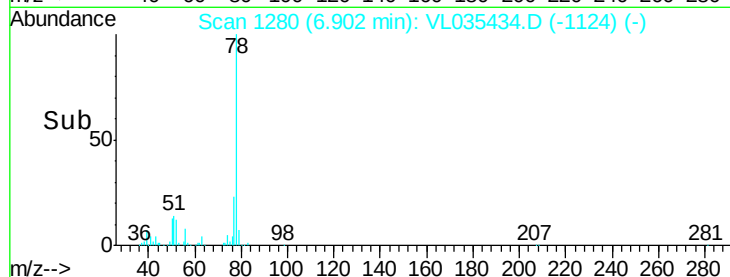
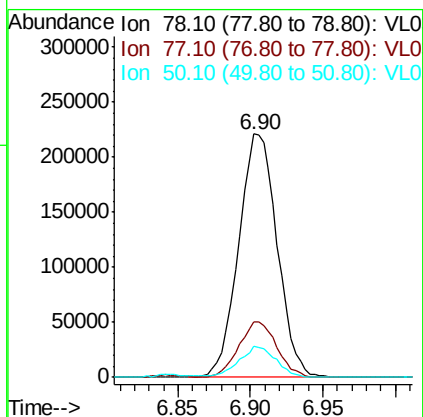
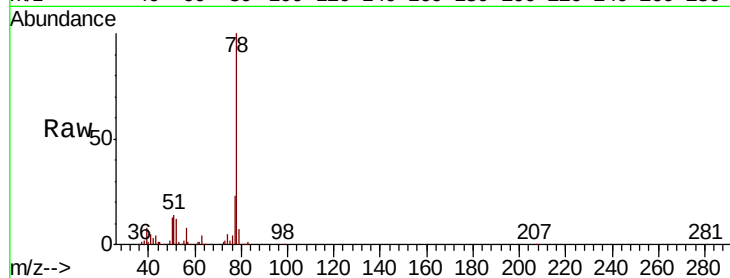




#36  
Benzene  
Concen: 1.046 ppbv  
RT: 6.90 min Scan# 1280  
Delta R.T. 0.00 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

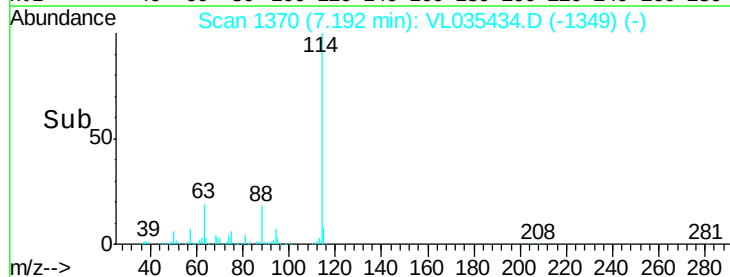
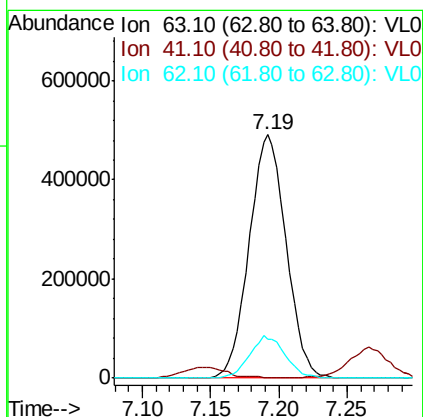
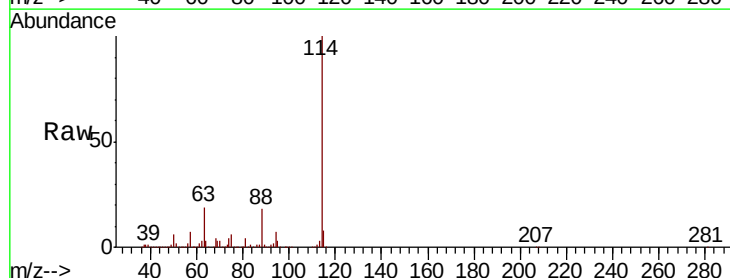
Instrument :  
MSVOA\_L  
ClientSampleId :  
DR-1

Tot Ion: 78 Resp: 407738  
Ion Ratio Lower Upper  
78 100  
77 22.9 19.6 29.4  
50 12.7 16.3 24.5#

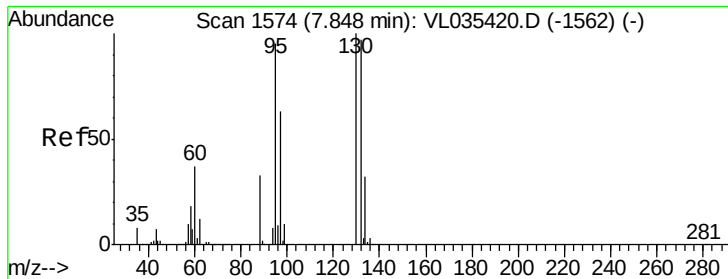


#39  
1,2-Dichloropropane  
Concen: 7.174 ppbv  
RT: 7.19 min Scan# 1370  
Delta R.T. -0.43 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

Tgt Ion: 63 Resp: 921468  
Ion Ratio Lower Upper  
63 100  
41 0.0 61.1 91.7#  
62 16.2 55.3 82.9#



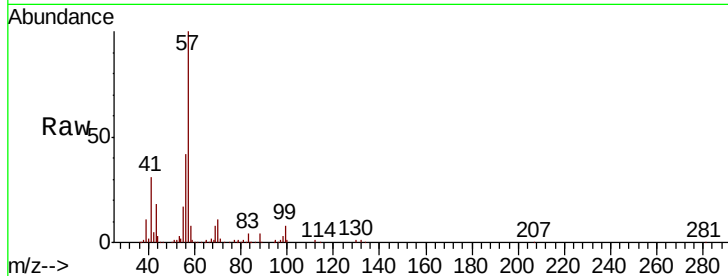




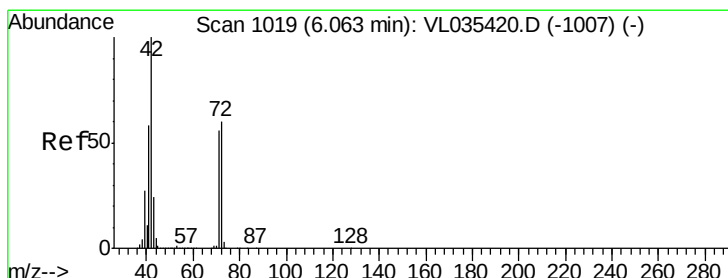
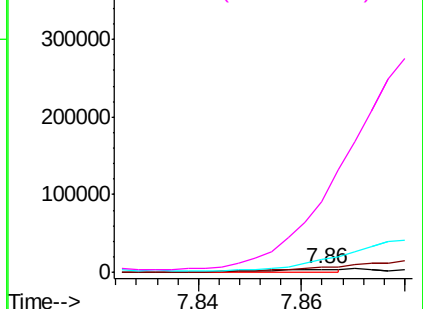
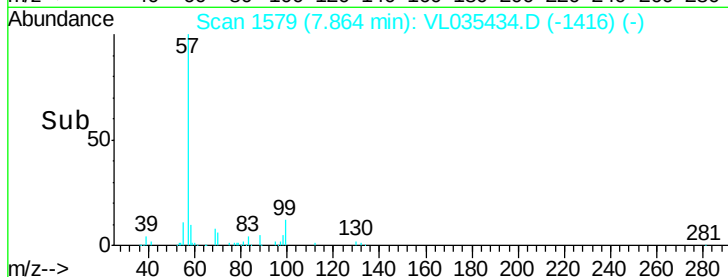
#40  
 1,4-Dioxane  
 Concen: 0.042 ppbv  
 RT: 7.86 min Scan# 1579  
 Delta R.T. 0.02 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DR-1

Tot Ion: 88 Resp: 2922  
 Ion Ratio Lower Upper  
 88 100  
 58 0.0 106.6 160.0#  
 43 0.0 209.7 314.5#  
 57 0.0 873.3 1309.9#

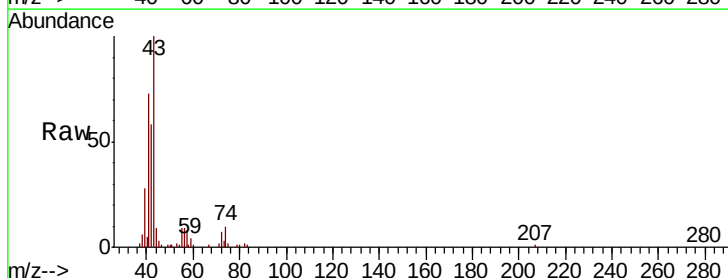


Abundance Ion 88.10 (87.80 to 88.80): VL0  
 Ion 58.10 (57.80 to 58.80): VL0  
 Ion 43.10 (42.80 to 43.80): VL0  
 Ion 57.10 (56.80 to 57.80): VL0

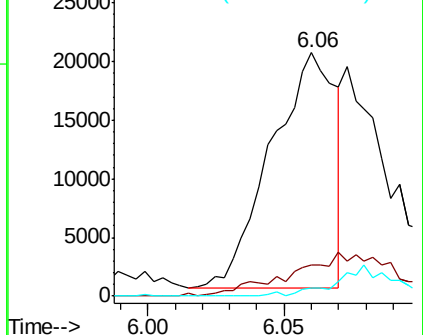
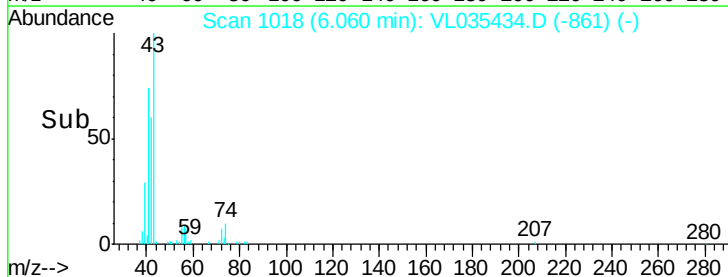


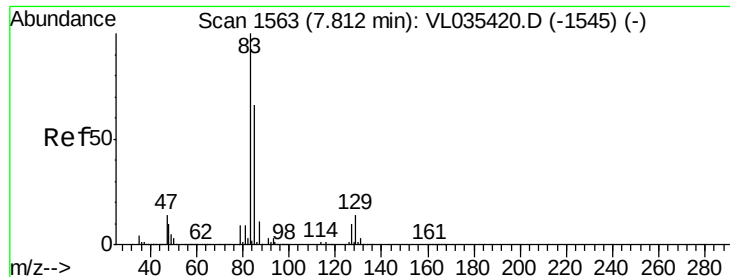
#41  
 Tetrahydrofuran  
 Concen: 0.335 ppbv  
 RT: 6.06 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

Tgt Ion: 42 Resp: 32793  
 Ion Ratio Lower Upper  
 42 100  
 72 0.0 29.4 44.2#  
 71 0.0 28.9 43.3#



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: 0.084 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

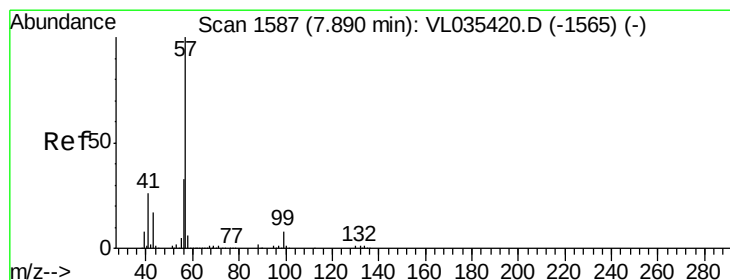
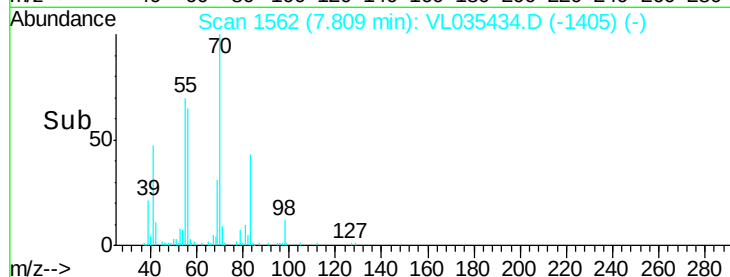
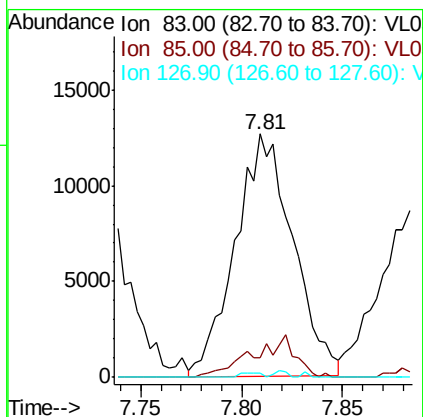
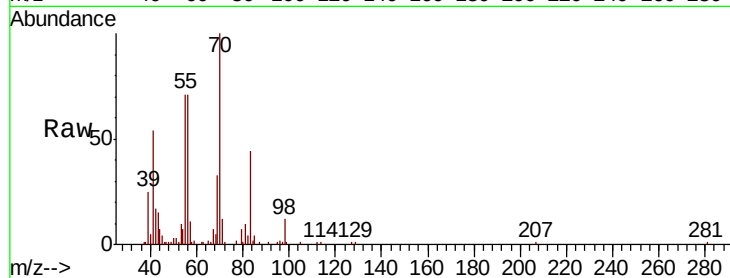
Tot Ion: 83 Resp: 25159

Ion Ratio Lower Upper

83 100

85 8.4 54.8 82.2#

127 1.9 6.1 9.1#



#44

2,2,4-Trimethylpentane

Concen: 1.344 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

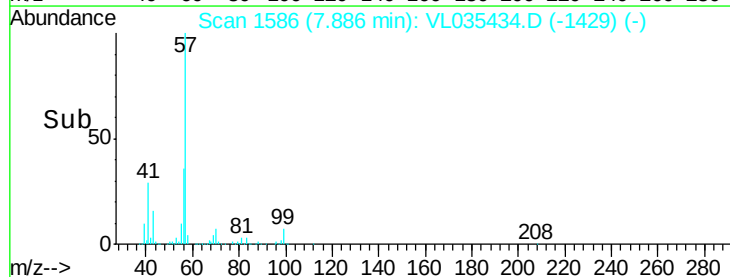
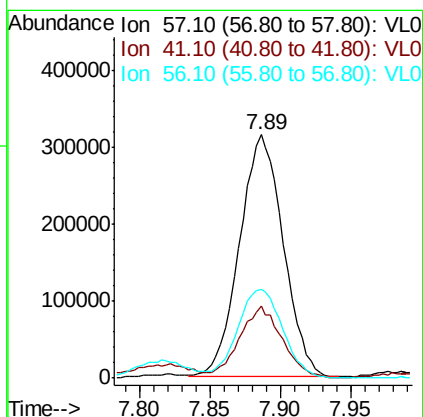
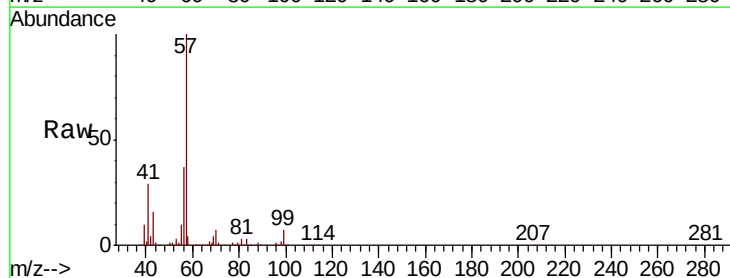
Tgt Ion: 57 Resp: 684085

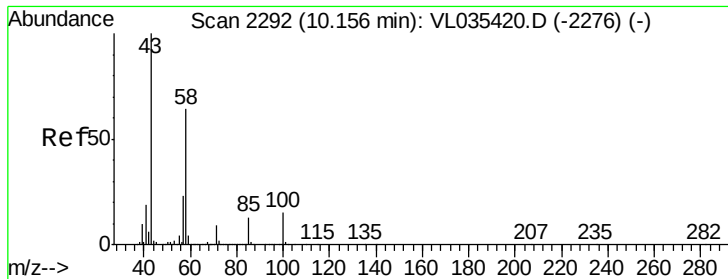
Ion Ratio Lower Upper

57 100

41 28.6 27.2 40.8

56 38.2 25.4 38.0#

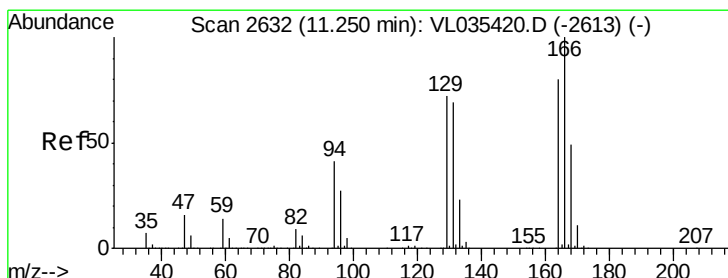
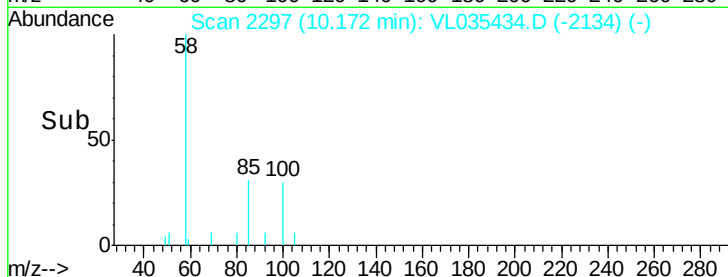
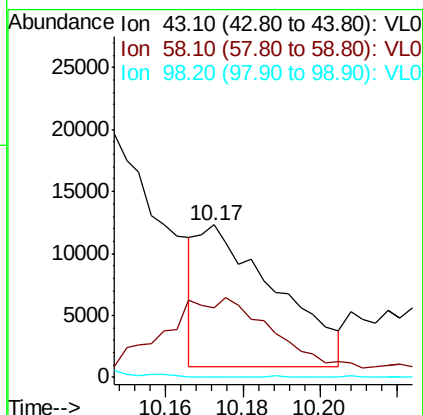
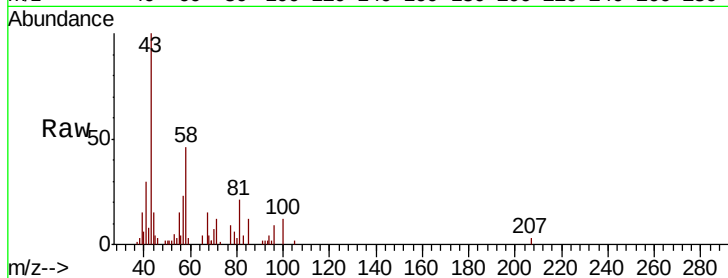




#51  
2-Hexanone  
Concen: 0.074 ppbv  
RT: 10.17 min Scan# 2297  
Delta R.T. 0.02 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

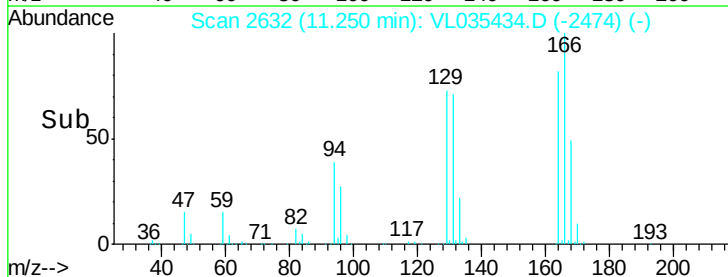
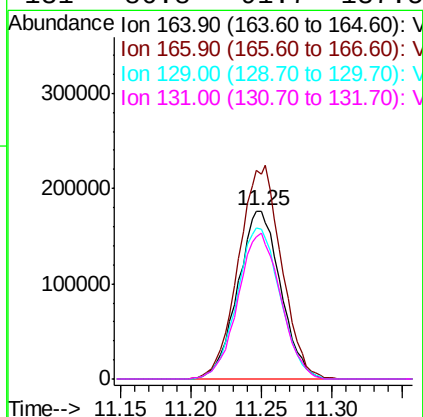
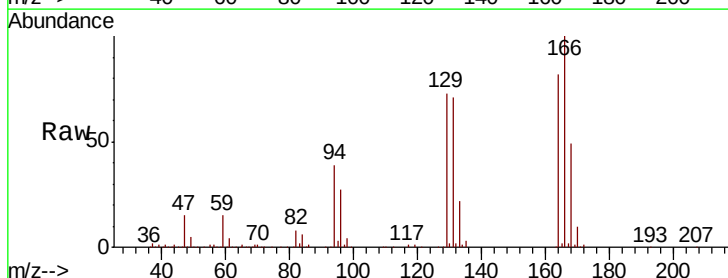
Instrument :  
MSVOA\_L  
ClientSampleID :  
DR-1

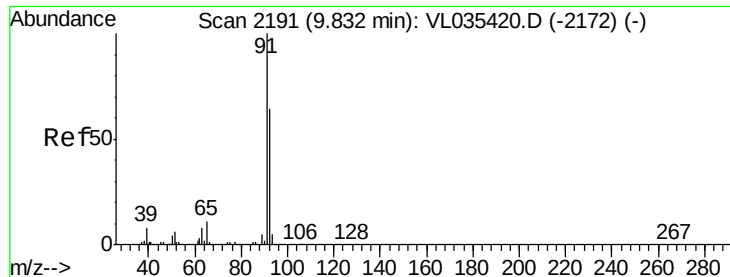
Tot Ion: 43 Resp: 15929  
Ion Ratio Lower Upper  
43 100  
58 99.1 38.6 58.0#  
98 0.0 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 1.569 ppbv  
RT: 11.25 min Scan# 2632  
Delta R.T. 0.01 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

Tgt Ion: 164 Resp: 373019  
Ion Ratio Lower Upper  
164 100  
166 121.9 103.4 155.0  
129 88.5 90.2 135.4#  
131 86.8 91.7 137.5#





#53

Toluene

Concen: 6.019 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

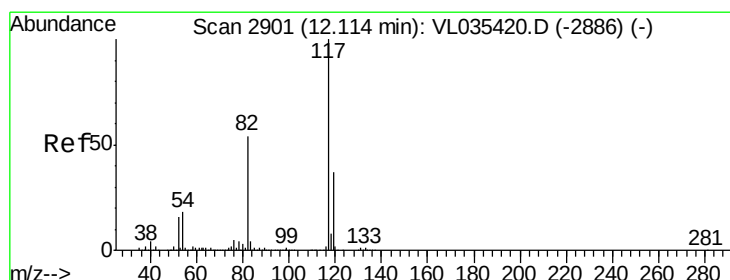
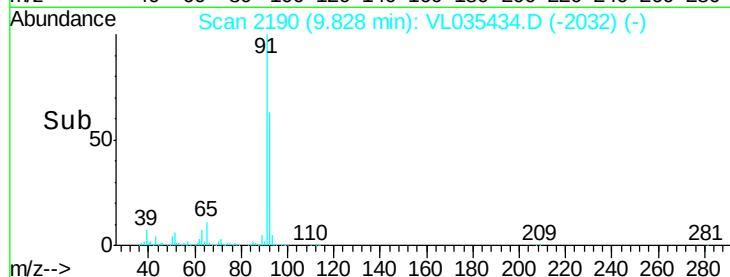
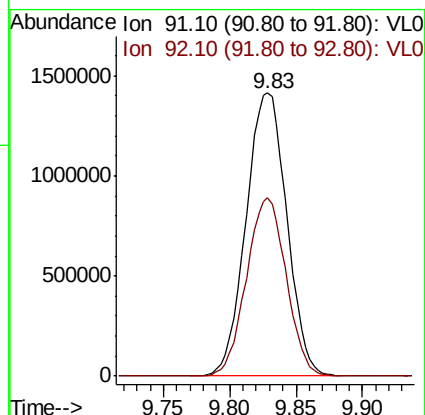
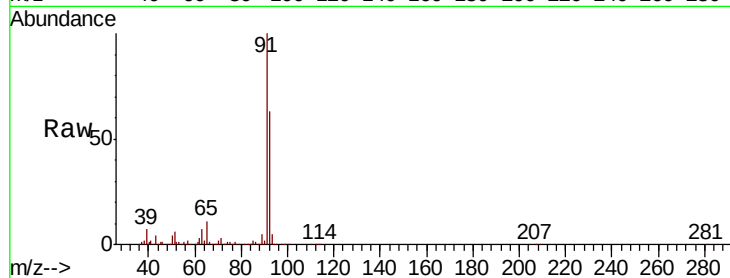
DR-1

Tot Ion: 91 Resp: 3021164

Ion Ratio Lower Upper

91 100

92 61.6 49.1 73.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

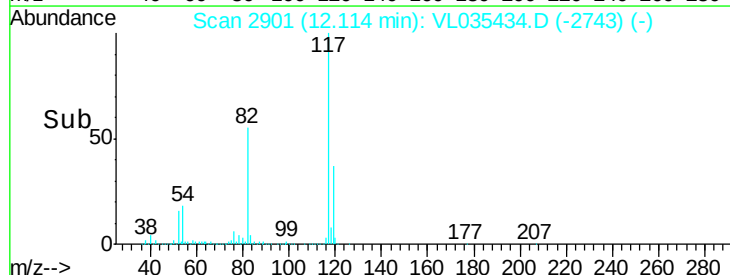
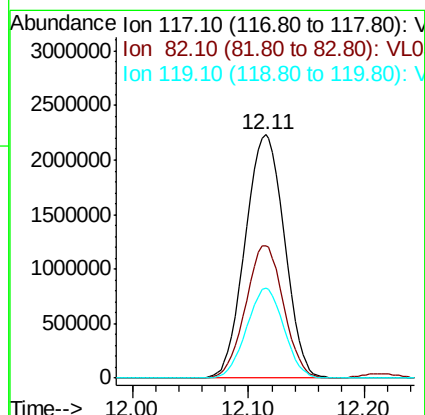
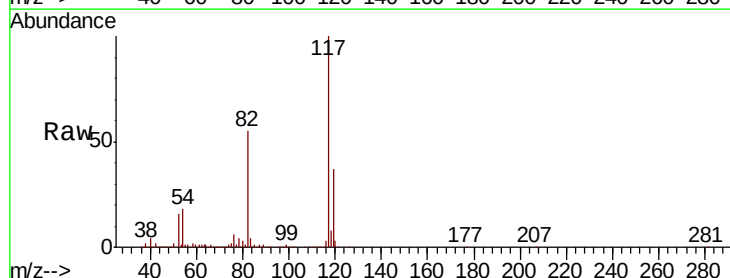
Tgt Ion: 117 Resp: 5259706

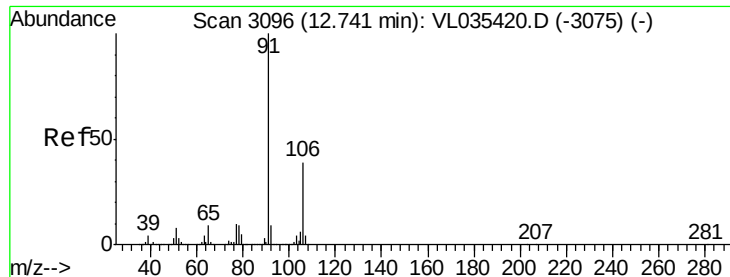
Ion Ratio Lower Upper

117 100

82 52.6 57.4 86.0#

119 35.2 28.4 42.6





#58

Ethyl Benzene

Concen: 2.886 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

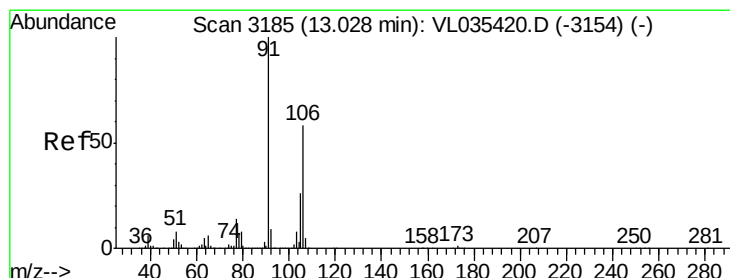
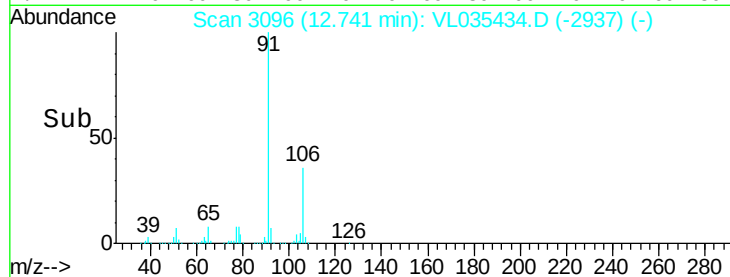
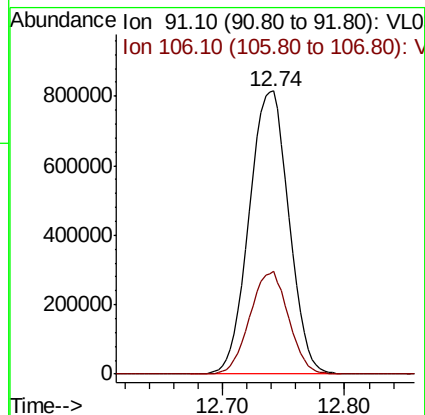
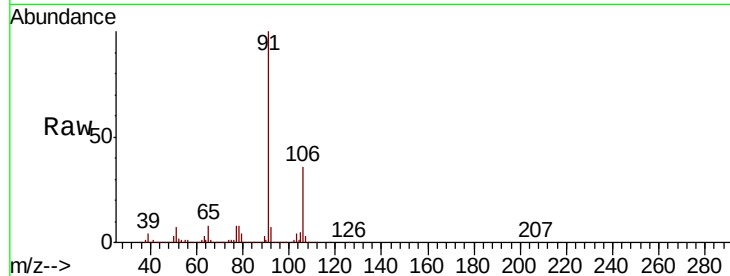
DR-1

Tot Ion: 91 Resp: 1832320

Ion Ratio Lower Upper

91 100

106 36.2 24.1 36.1#



#59

m/p-Xylene

Concen: 9.271 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL035434.D

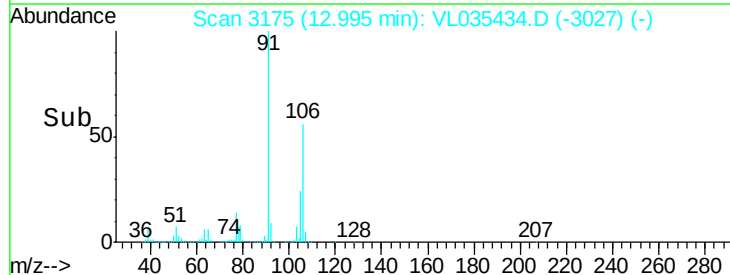
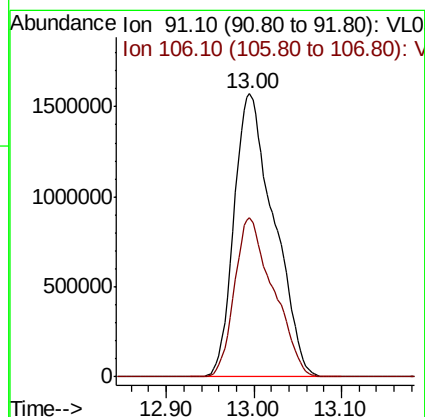
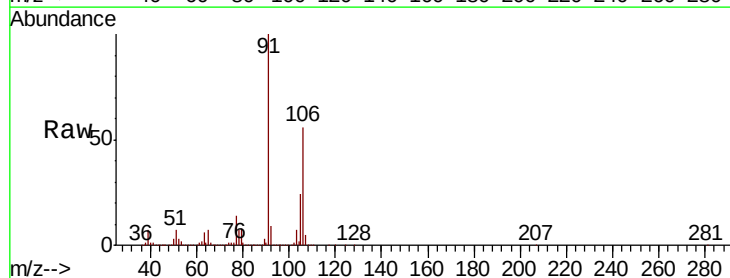
Acq: 18 Aug 2020 2:30

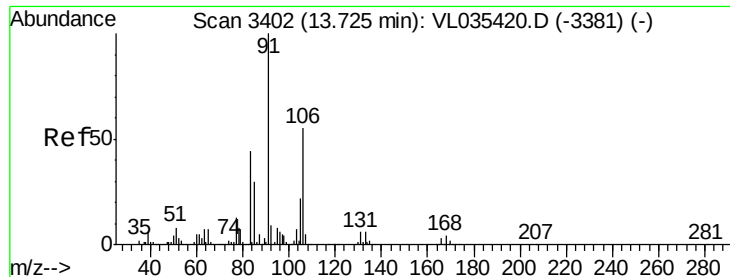
Tgt Ion: 91 Resp: 4975855

Ion Ratio Lower Upper

91 100

106 54.7 34.0 51.0#

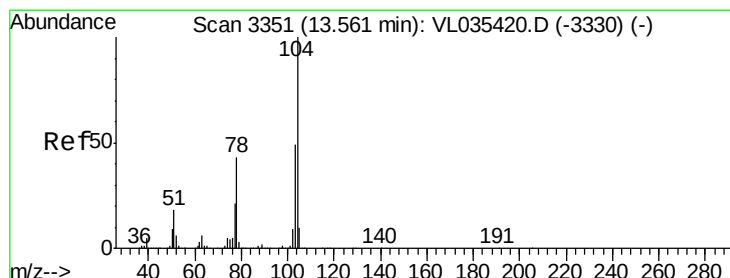
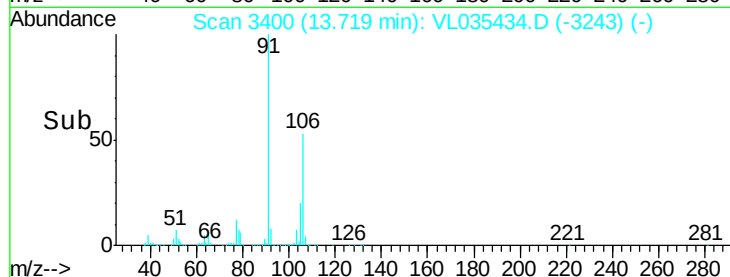
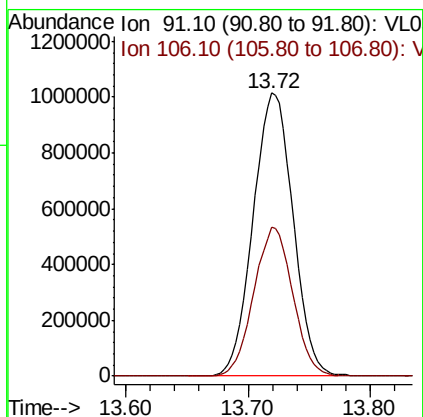
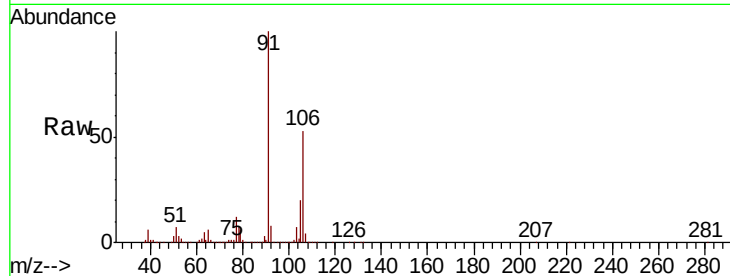




#60  
o-Xylene  
Concen: 4.405 ppbv  
RT: 13.72 min Scan# 3400  
Delta R.T. 0.00 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

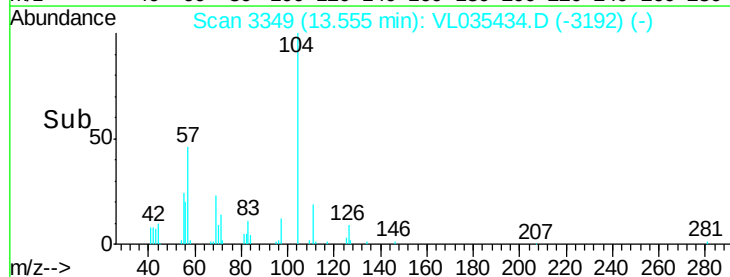
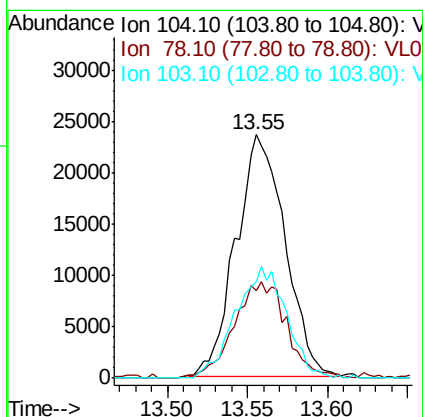
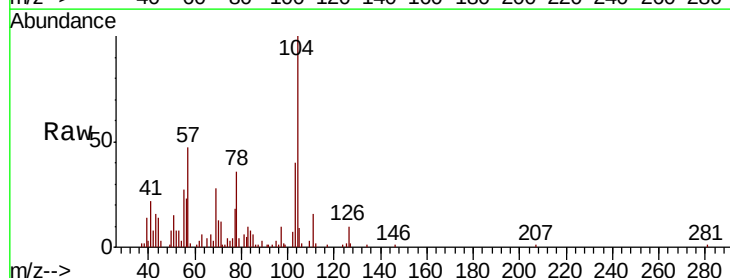
Instrument :  
MSVOA\_L  
ClientSampled :  
DR-1

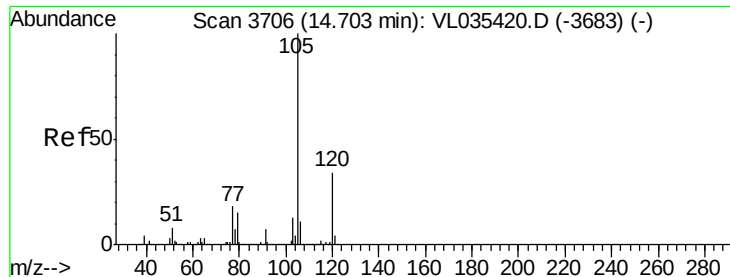
Tot Ion: 91 Resp: 2297777  
Ion Ratio Lower Upper  
91 100  
106 51.6 21.8 65.3



#61  
Styrene  
Concen: 0.117 ppbv  
RT: 13.55 min Scan# 3349  
Delta R.T. 0.00 min  
Lab File: VL035434.D  
Acq: 18 Aug 2020 2:30

Tgt Ion: 104 Resp: 49377  
Ion Ratio Lower Upper  
104 100  
78 42.8 45.4 68.2#  
103 47.6 37.8 56.8





#62

Isopropylbenzene

Concen: 0.438 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

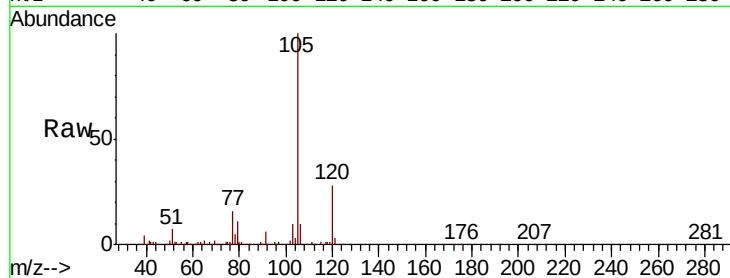
DR-1

Tot Ion:105 Resp: 374646

Ion Ratio Lower Upper

105 100

120 27.9 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.70

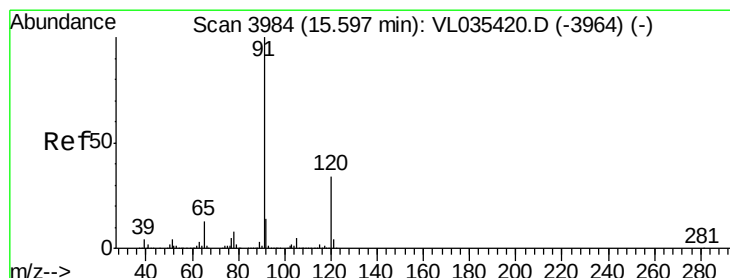
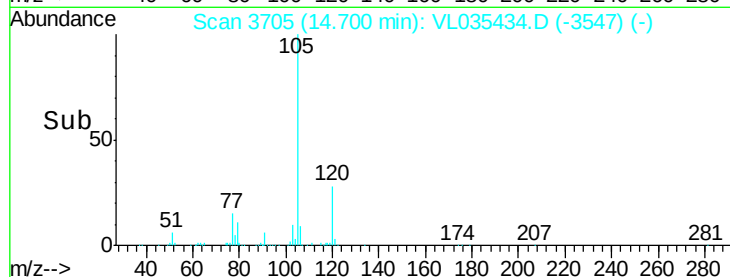
150000

100000

50000

0

Time-->



#64

n-propylbenzene

Concen: 2.559 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.01 min

Lab File: VL035434.D

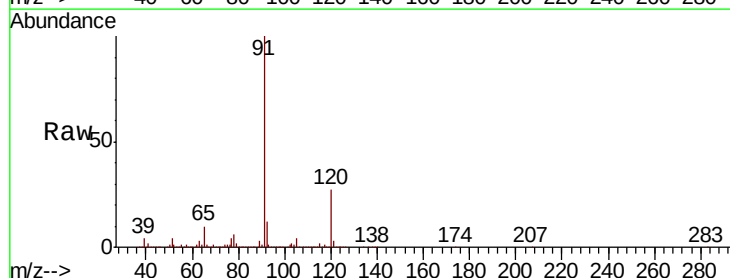
Acq: 18 Aug 2020 2:30

Tgt Ion:120 Resp: 674250

Ion Ratio Lower Upper

120 100

91 383.3 385.5 578.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

1200000

1000000

800000

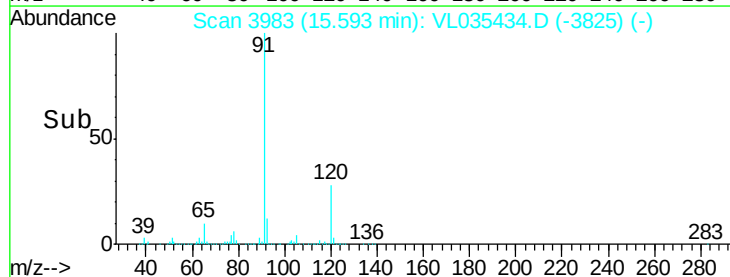
600000

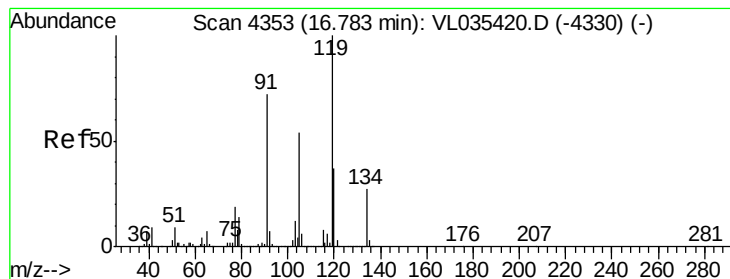
400000

200000

0

Time-->





#65

tert-Butylbenzene

Concen: 1.606 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.03 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

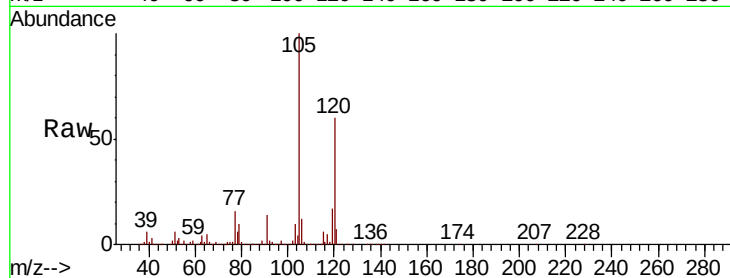
Tot Ion:119 Resp: 1334254

Ion Ratio Lower Upper

119 100

91 85.2 72.0 108.0

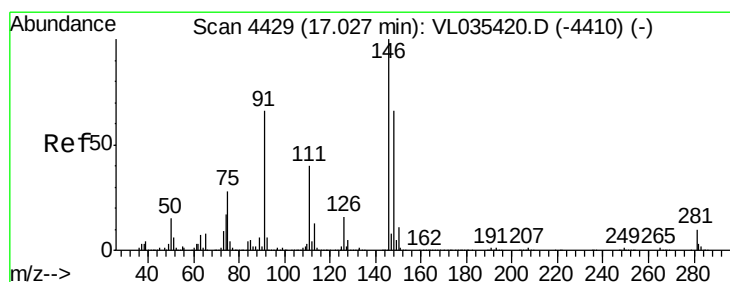
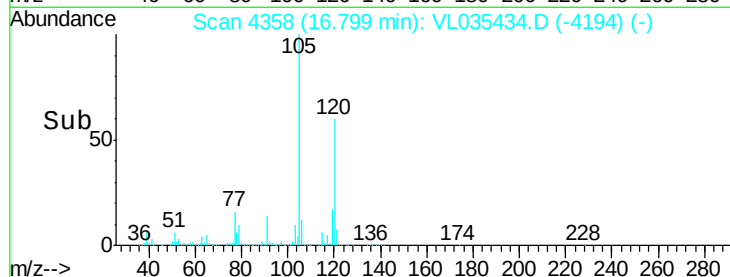
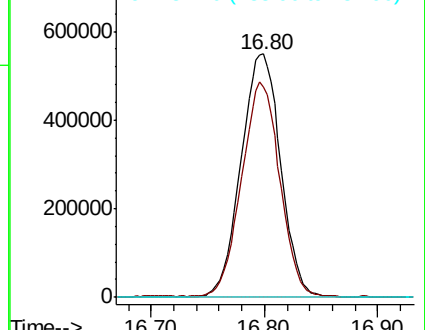
134 0.2 15.7 23.5#



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: 0.698 ppbv

RT: 17.24 min Scan# 4496

Delta R.T. 0.23 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

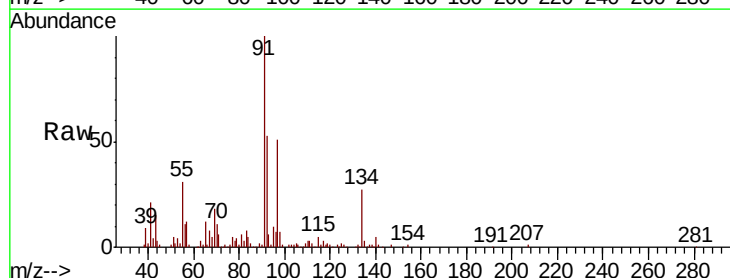
Tgt Ion: 91 Resp: 139433

Ion Ratio Lower Upper

91 100

126 0.3 13.3 19.9#

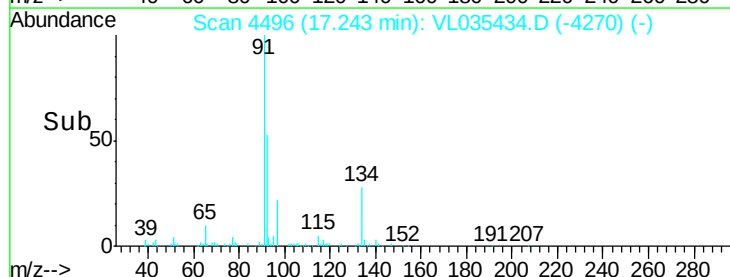
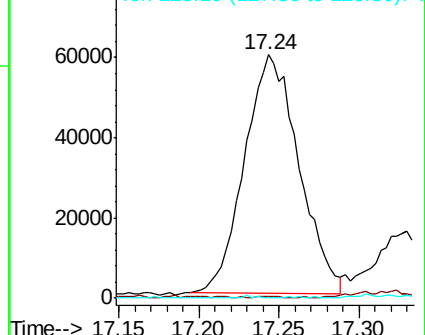
128 0.2 4.1 6.1#



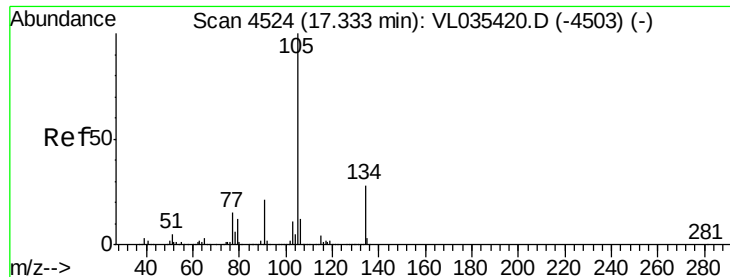
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V







#67

sec-Butylbenzene

Concen: 0.222 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

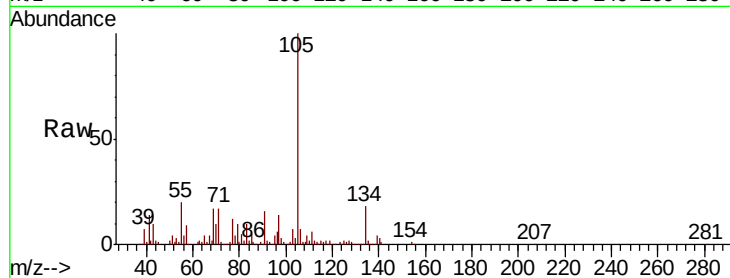
DR-1

Tot Ion: 105 Resp: 242288

Ion Ratio Lower Upper

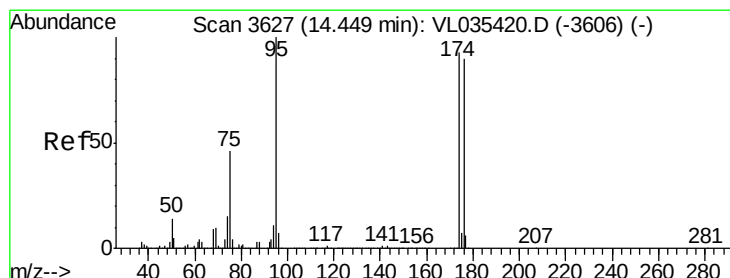
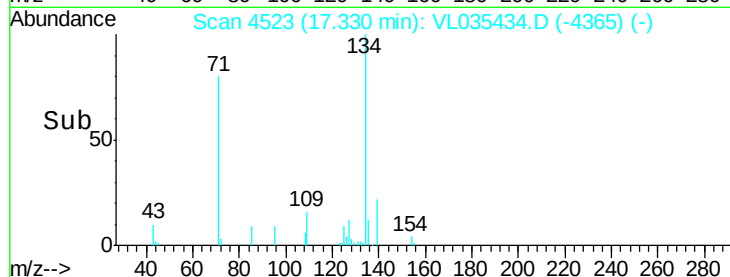
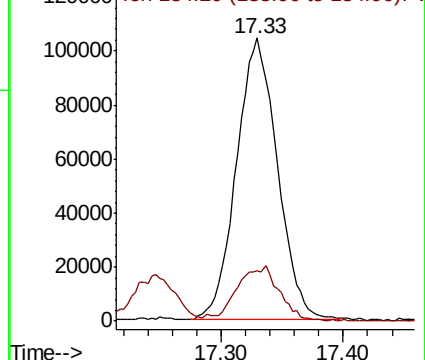
105 100

134 20.5 14.1 21.1



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: 10.378 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

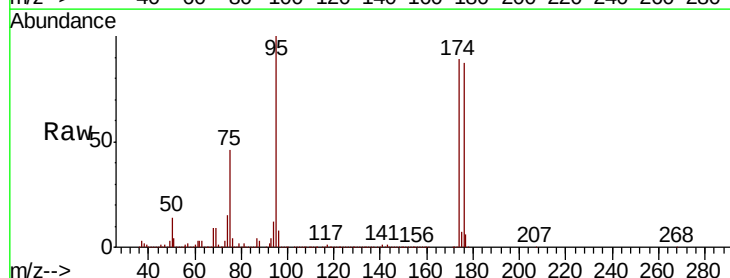
Tgt Ion: 95 Resp: 3821361

Ion Ratio Lower Upper

95 100

174 91.1 44.0 66.0#

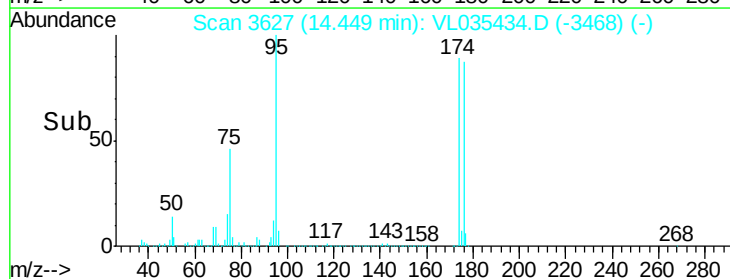
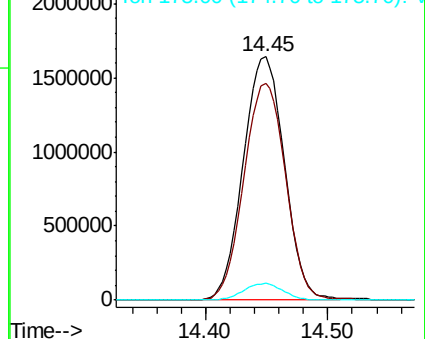
175 6.7 3.2 4.8#

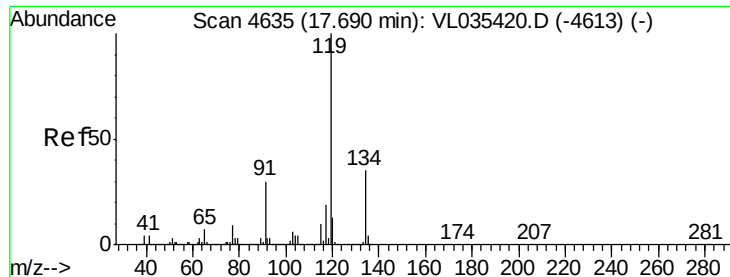


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

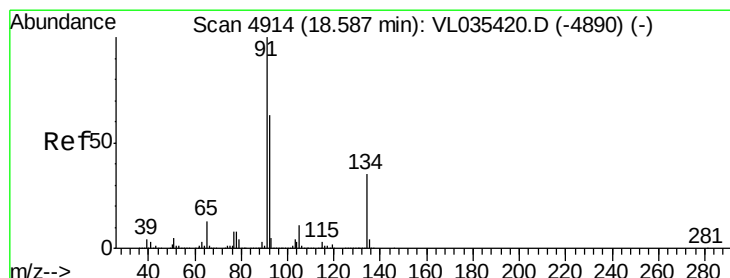
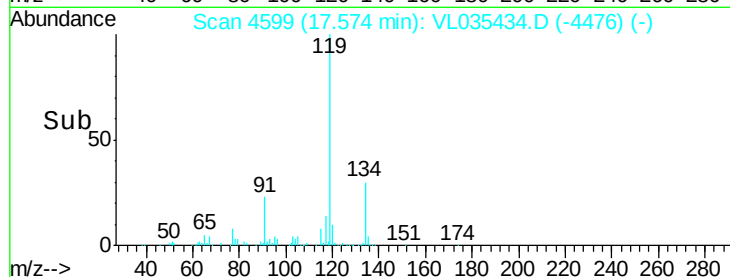
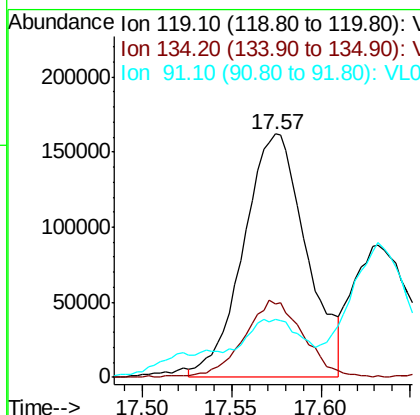
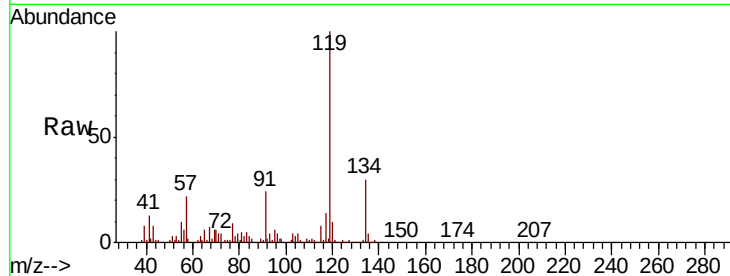




#69  
 p-Isopropyltoluene  
 Concen: 0.409 ppbv  
 RT: 17.57 min Scan# 4599  
 Delta R.T. -0.11 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

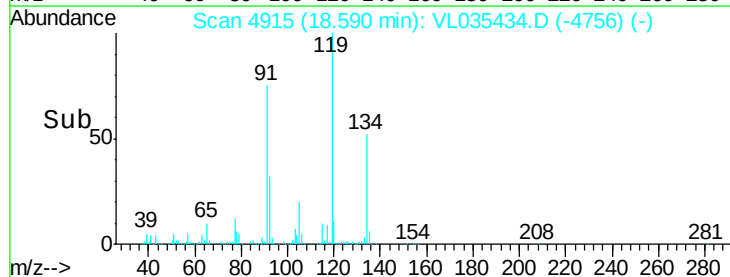
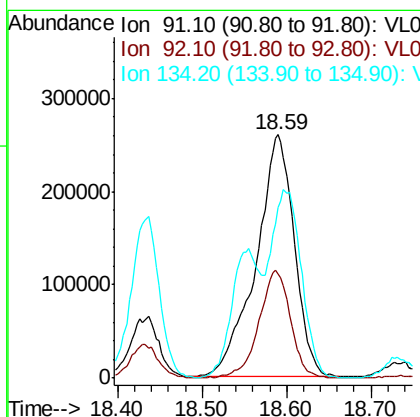
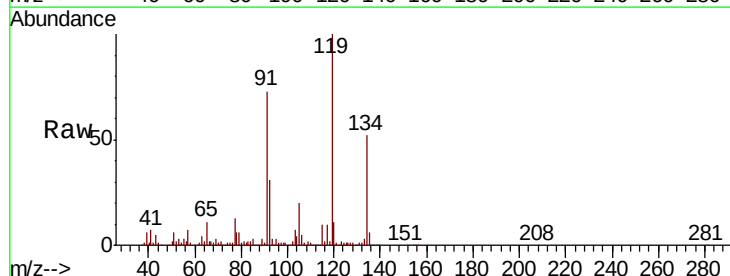
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 DR-1

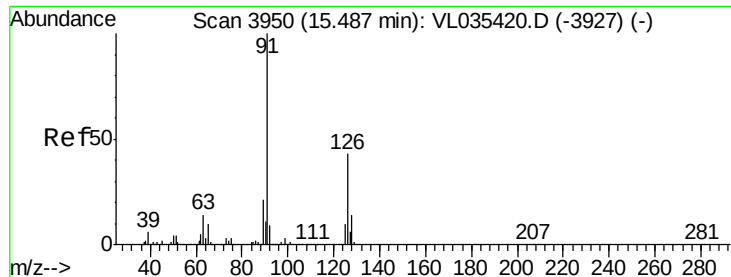
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 30.3  | 20.6  | 30.8  |
| 91      | 35.5  | 26.6  | 39.8  |



#70  
 n-Butylbenzene  
 Concen: 0.895 ppbv  
 RT: 18.59 min Scan# 4915  
 Delta R.T. 0.01 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 36.4  | 44.8  | 67.2# |
| 134     | 63.5  | 17.3  | 25.9# |

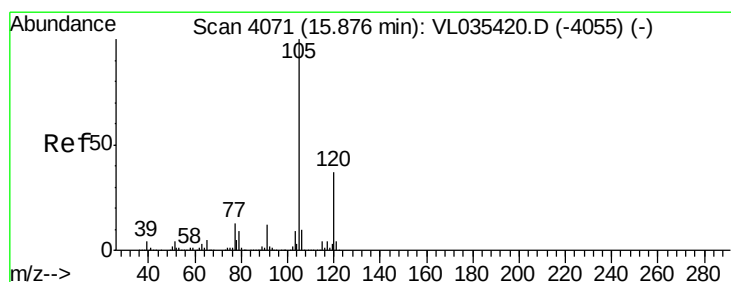
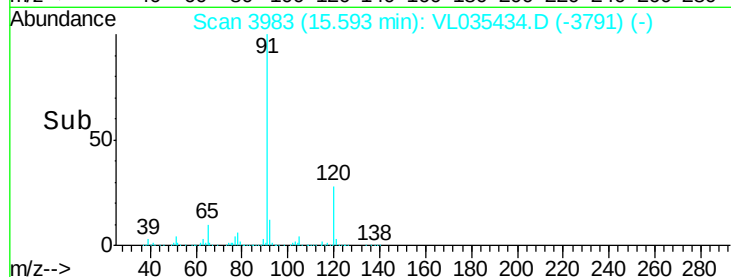
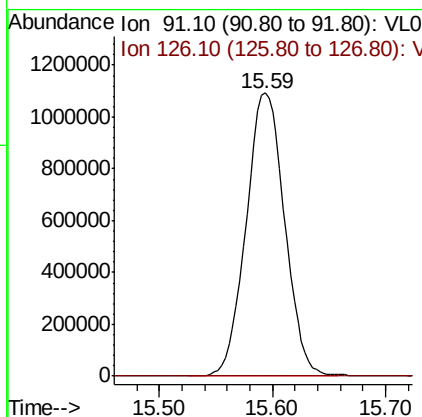
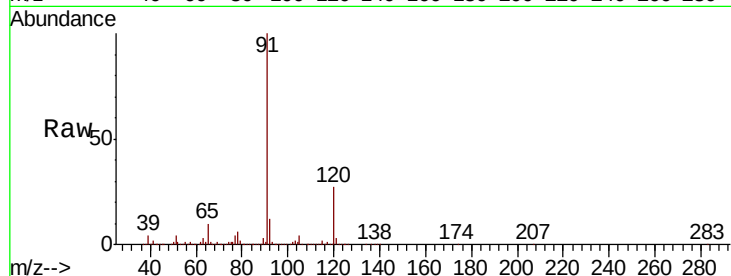




#71  
 2-Chlorotoluene  
 Concen: 4.157 ppbv  
 RT: 15.59 min Scan# 3983  
 Delta R.T. 0.12 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

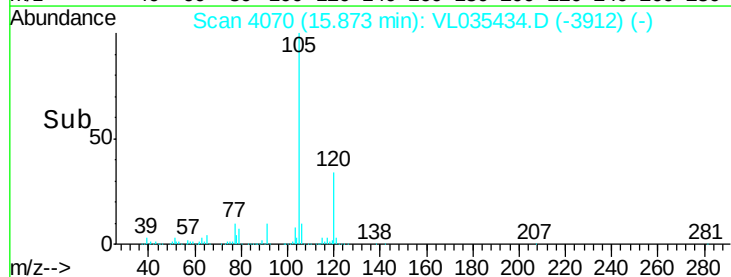
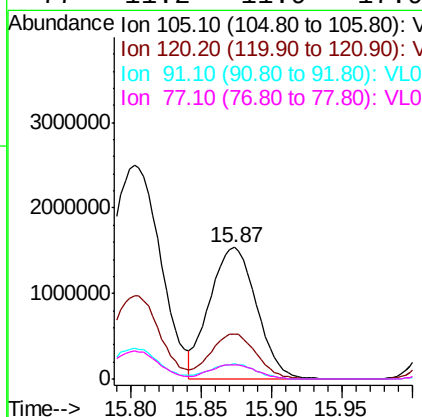
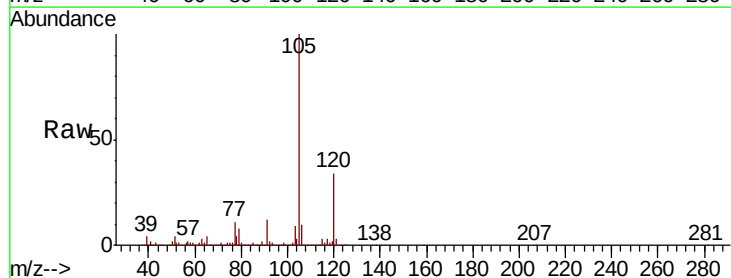
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DR-1

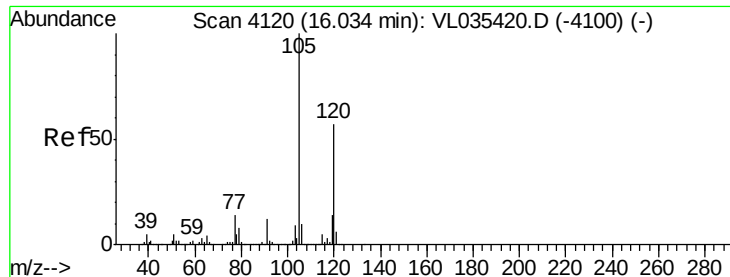
Tot Ion: 91 Resp: 2578483  
 Ion Ratio Lower Upper  
 91 100  
 126 0.1 11.4 45.6#



#72  
 4-Ethyltoluene  
 Concen: 5.203 ppbv  
 RT: 15.87 min Scan# 4070  
 Delta R.T. 0.01 min  
 Lab File: VL035434.D  
 Acq: 18 Aug 2020 2:30

Tgt Ion: 105 Resp: 3561703  
 Ion Ratio Lower Upper  
 105 100  
 120 34.4 22.7 34.1#  
 91 11.4 10.8 16.2  
 77 11.2 11.9 17.9#





#73

1,3,5-Trimethylbenzene

Concen: 4.626 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

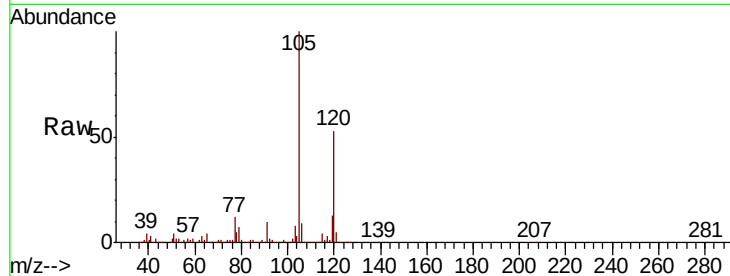
DR-1

Tot Ion:105 Resp: 2946626

Ion Ratio Lower Upper

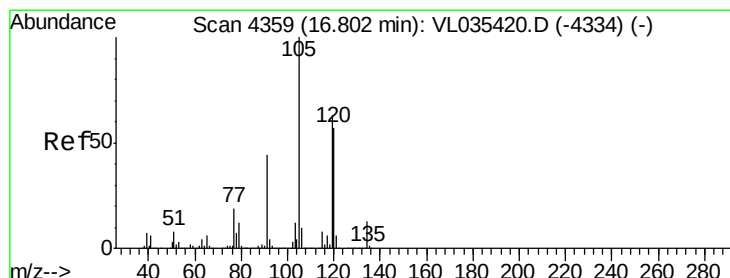
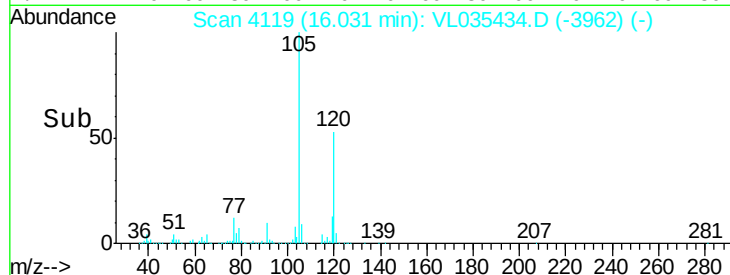
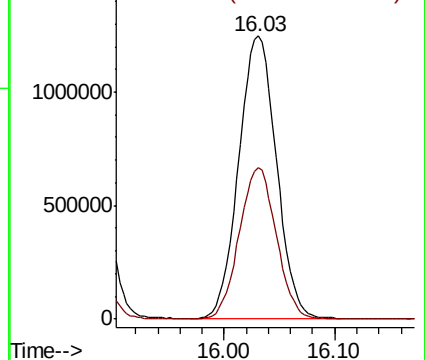
105 100

120 53.5 35.6 53.4#



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: 13.043 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Tgt Ion:105 Resp: 9027409

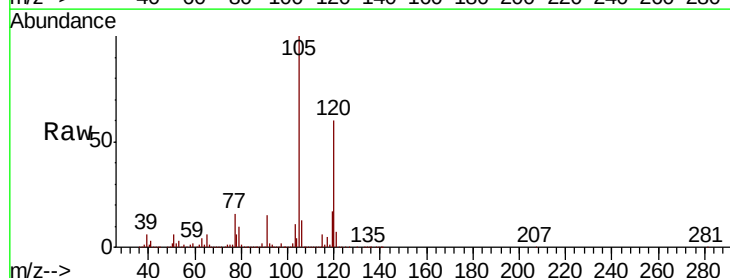
Ion Ratio Lower Upper

105 100

120 60.4 37.8 56.8#

91 14.6 40.0 60.0#

77 15.9 18.8 28.2#

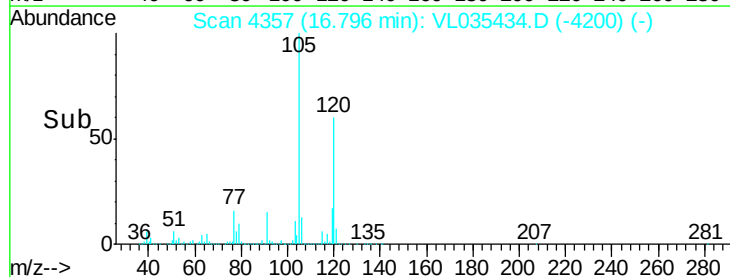
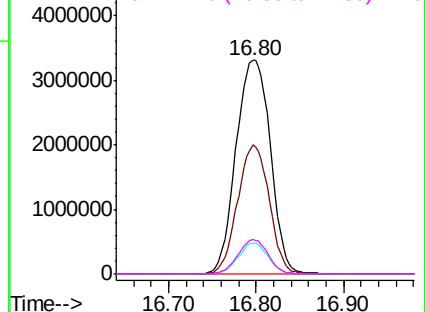


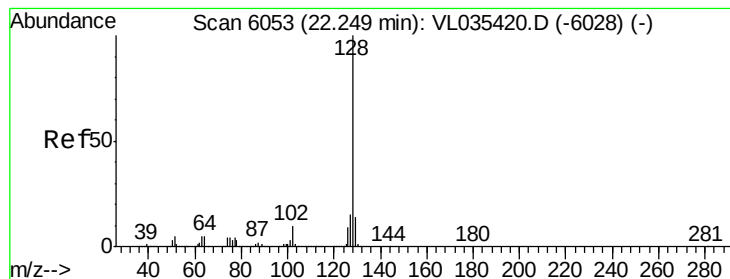
Abundance Ion 105.10 (104.80 to 105.80): V

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





#79

Naphthalene

Concen: 0.853 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. 0.01 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

Instrument :

MSVOA\_L

ClientSampleId :

DR-1

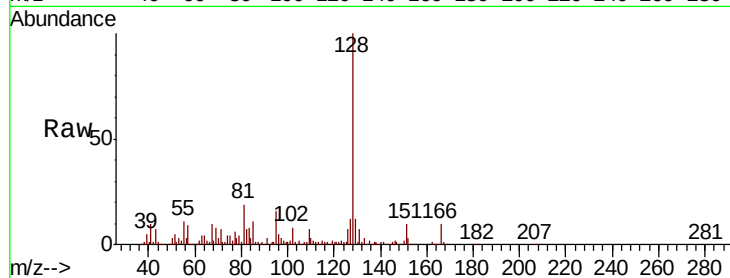
Tot Ion:128 Resp: 831209

Ion Ratio Lower Upper

128 100

127 12.2 11.4 17.0

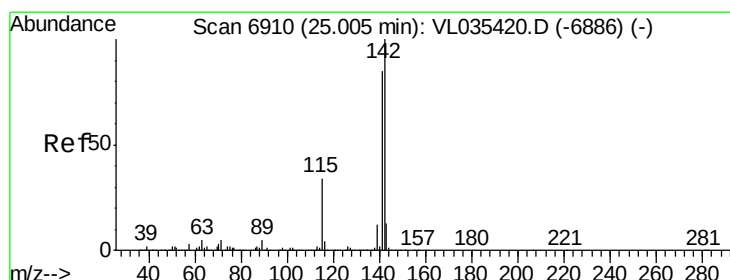
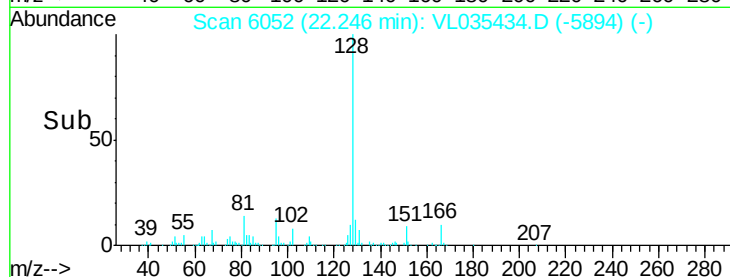
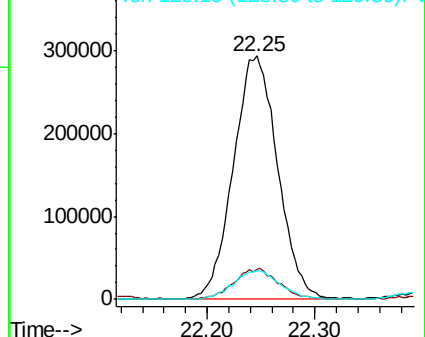
129 11.8 9.5 14.3



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: 0.065 ppbv

RT: 25.32 min Scan# 7009

Delta R.T. 0.32 min

Lab File: VL035434.D

Acq: 18 Aug 2020 2:30

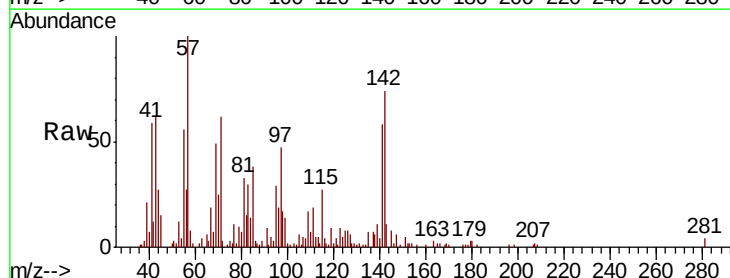
Tgt Ion:142 Resp: 26175

Ion Ratio Lower Upper

142 100

141 82.9 67.1 100.7

115 36.7 36.1 54.1



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

