

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\  
 Data File : VL026202.D  
 Acq On : 10 Oct 2015 8:14  
 Operator : SY/MD  
 Sample : G3925-03DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-3DL

Quant Time: Oct 12 04:31:43 2015  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Oct 09 16:23:14 2015  
 QLast Update : Fri Oct 09 16:23:14 2015  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 6.63  | 49   | 547293   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 8.31  | 114  | 1696975  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 13.72 | 117  | 1973098  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 16.27  | 95    | 1552631  | 10.25    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.50% |

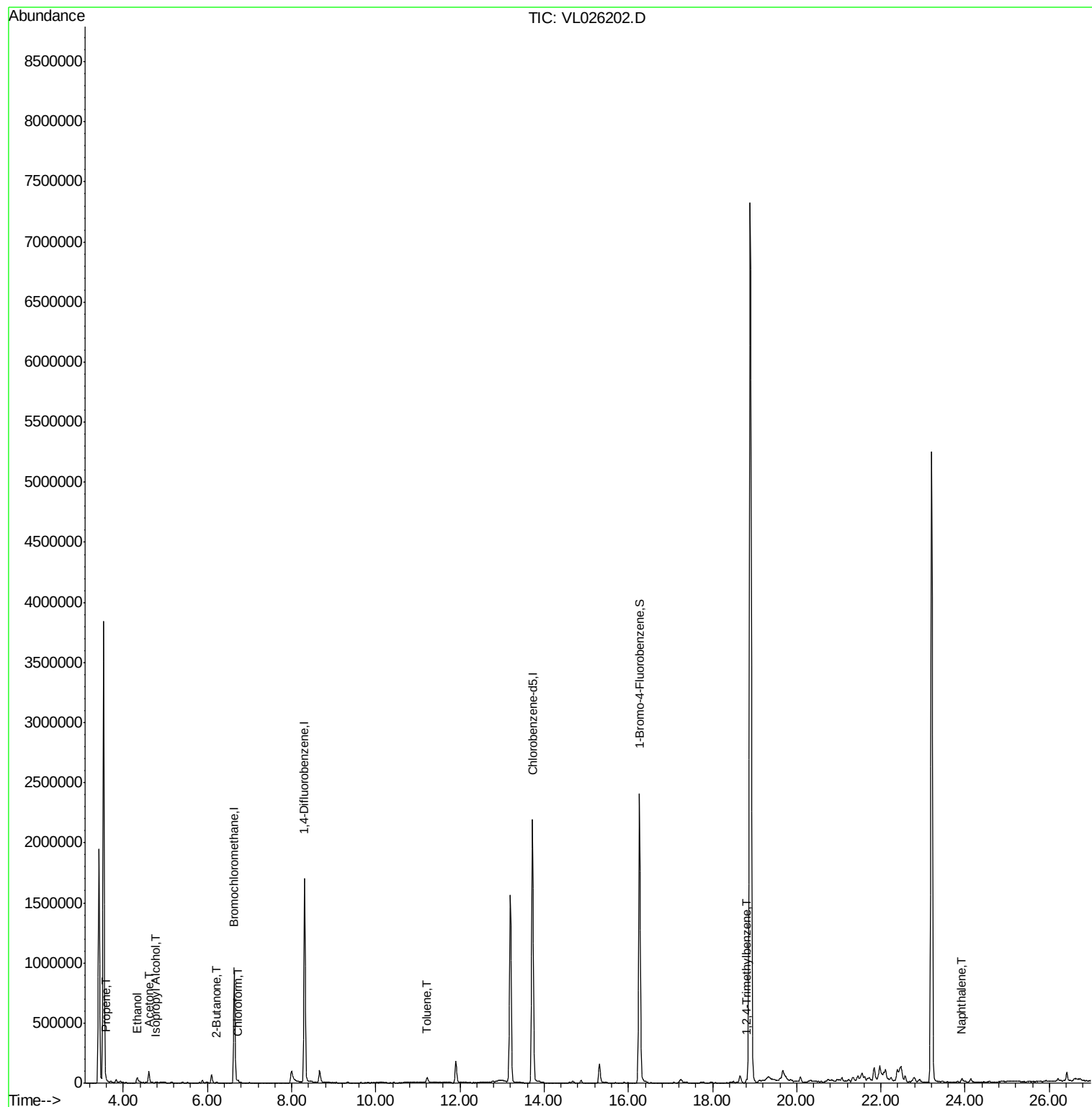
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene                 | 3.59  | 41   | 4106     | 0.14  | ppbv # | 75     |
| 13) Ethanol                | 4.33  | 45   | 63154    | 14.63 | ppbv   | 93     |
| 15) Acetone                | 4.60  | 43   | 129811   | 1.84  | ppbv # | 86     |
| 19) Isopropyl Alcohol      | 4.78  | 45   | 11540    | 0.42  | ppbv # | 1      |
| 29) Chloroform             | 6.73  | 83   | 9683     | 0.10  | ppbv   | 95     |
| 34) 2-Butanone             | 6.21  | 43   | 9797     | 0.10  | ppbv   | 94     |
| 53) Toluene                | 11.22 | 91   | 39921    | 0.19  | ppbv   | 99     |
| 74) 1,2,4-Trimethylbenzene | 18.81 | 105  | 29320    | 0.12  | ppbv # | 69     |
| 79) Naphthalene            | 23.92 | 128  | 42611    | 0.27  | ppbv   | 97     |

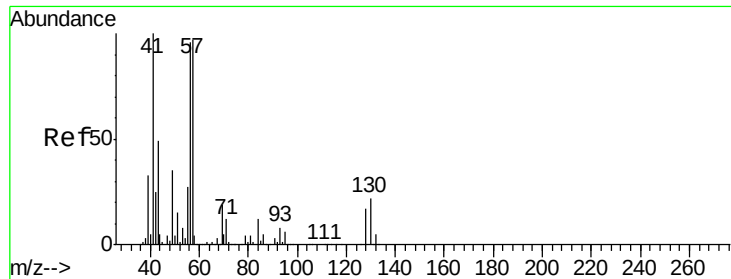
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 16:23:14 2015  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.02 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

SG-3DL

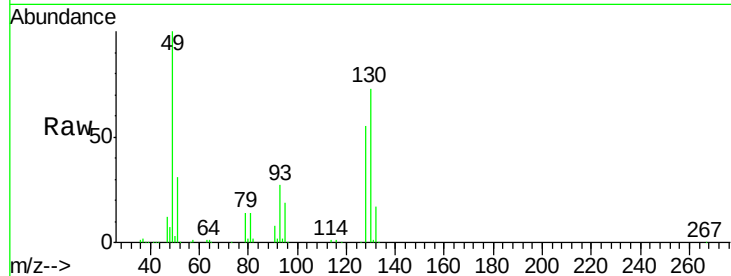
Tot Ion: 49 Resp: 547293

Ion Ratio Lower Upper

49 100

128 57.8 26.3 78.8

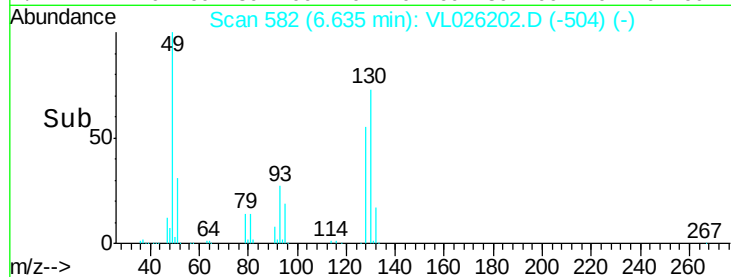
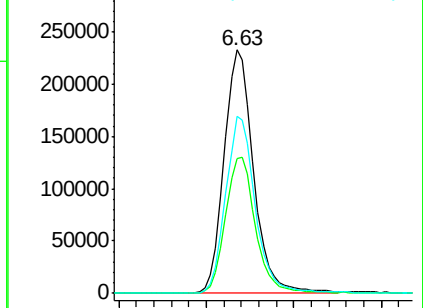
130 73.2 34.2 102.5



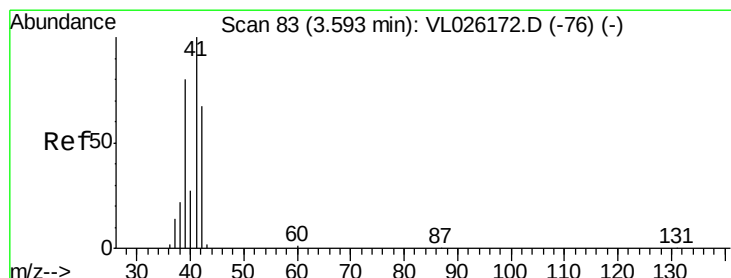
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Scan 582 (6.635 min): VL026202.D (-504) (-)



Scan 83 (3.593 min): VL026172.D (-76) (-)

#9

Propene

Concen: 0.14 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL026202.D

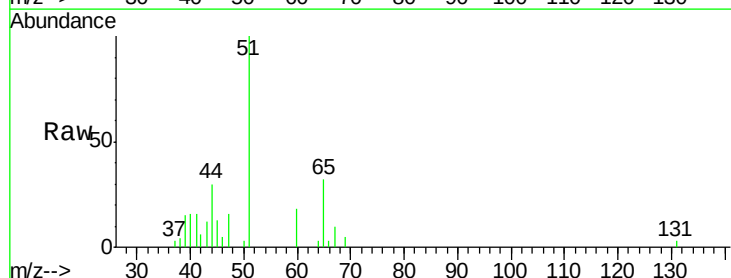
Acq: 10 Oct 2015 8:14

Tgt Ion: 41 Resp: 4106

Ion Ratio Lower Upper

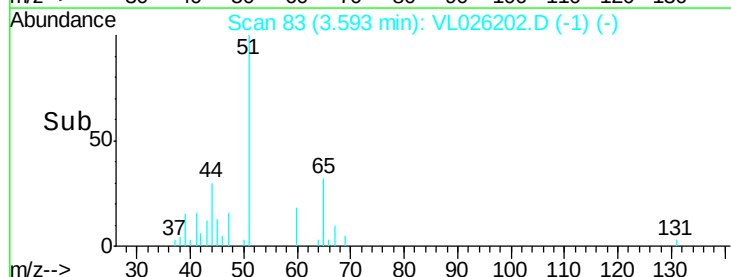
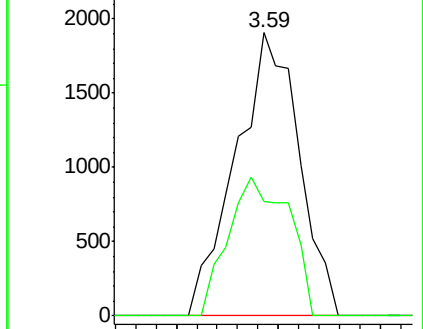
41 100

42 47.2 53.6 80.4#

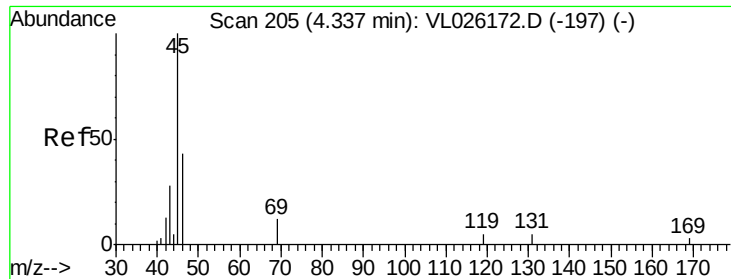


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



Scan 83 (3.593 min): VL026202.D (-1) (-)



#13

Ethanol

Concen: 14.63 ppbv

RT: 4.33 min Scan# 204

Delta R.T. -0.01 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

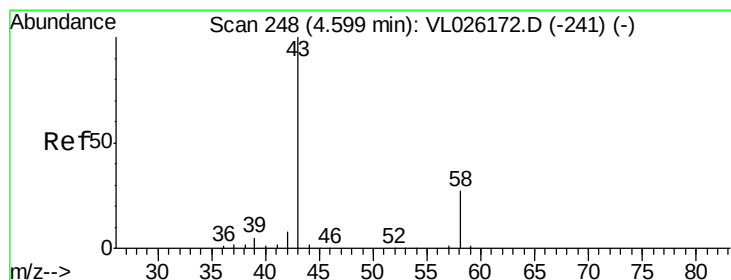
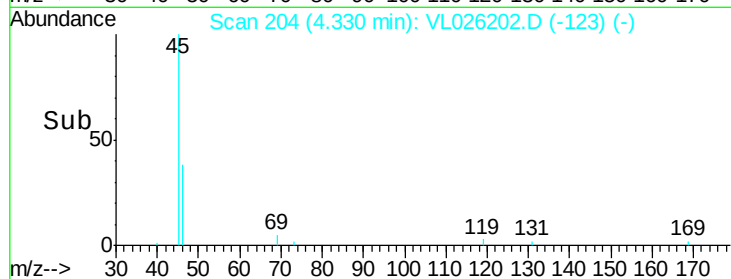
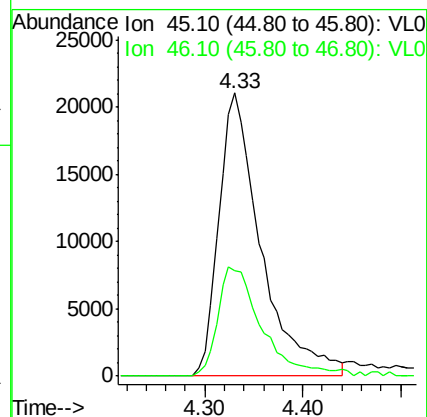
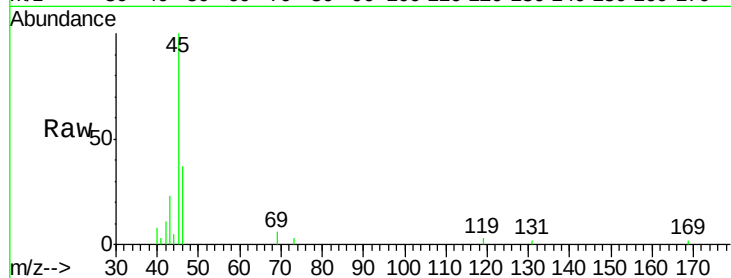
SG-3DL

Tot Ion: 45 Resp: 63154

Ion Ratio Lower Upper

45 100

46 40.7 18.1 72.5



#15

Acetone

Concen: 1.84 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL026202.D

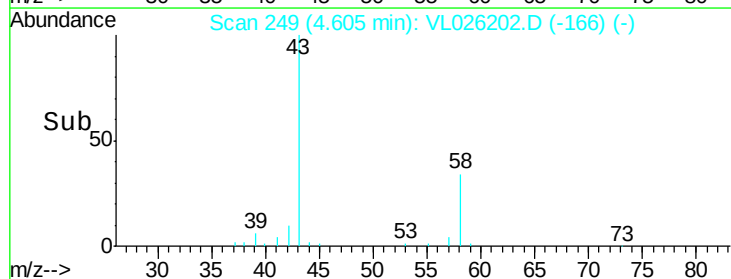
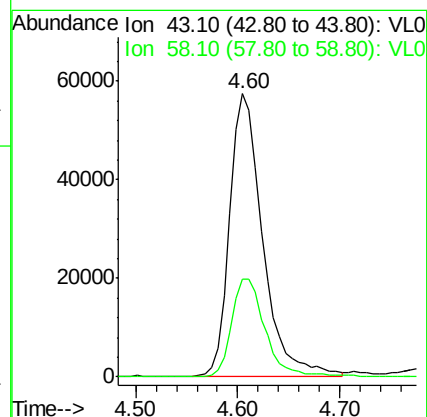
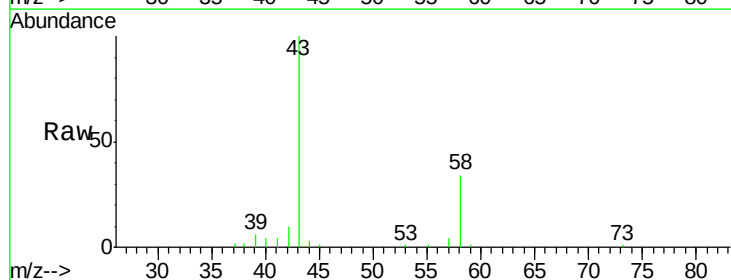
Acq: 10 Oct 2015 8:14

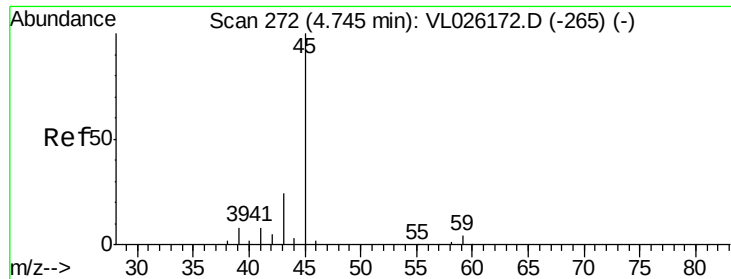
Tgt Ion: 43 Resp: 129811

Ion Ratio Lower Upper

43 100

58 34.9 22.0 33.0#





#19

Isopropyl Alcohol

Concen: 0.42 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.03 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

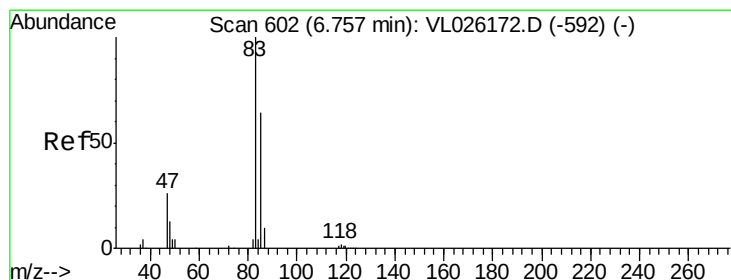
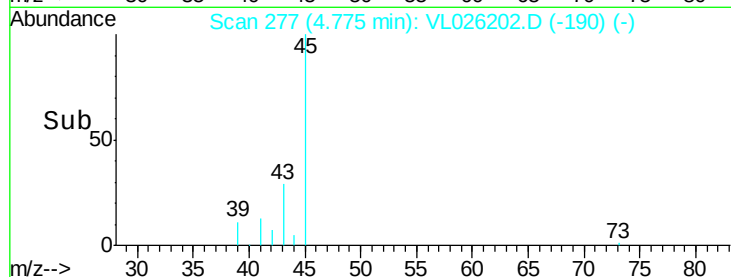
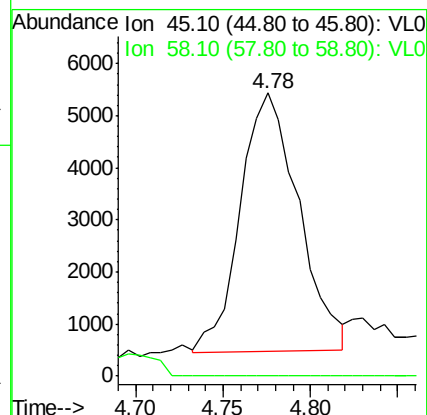
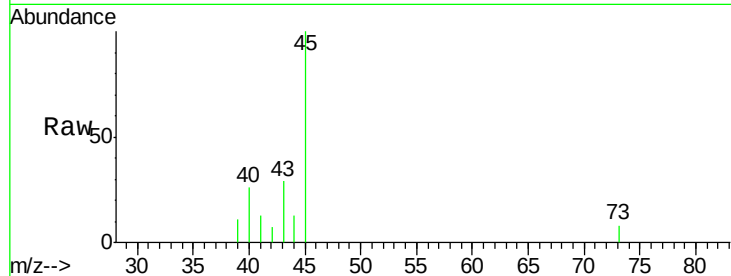
SG-3DL

Tot Ion: 45 Resp: 11540

Ion Ratio Lower Upper

45 100

58 392.5 1.7 2.5#



#29

Chloroform

Concen: 0.10 ppbv

RT: 6.73 min Scan# 598

Delta R.T. -0.02 min

Lab File: VL026202.D

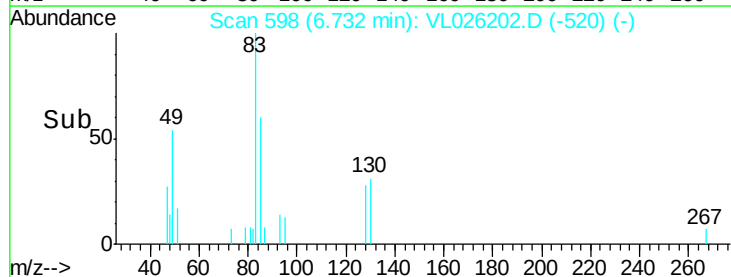
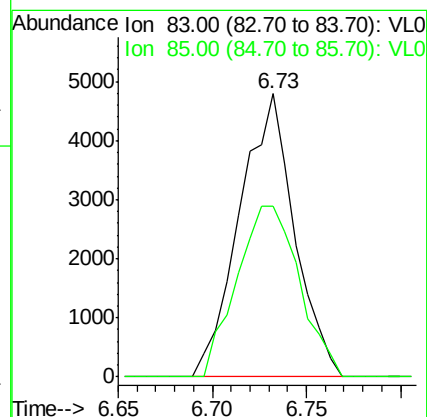
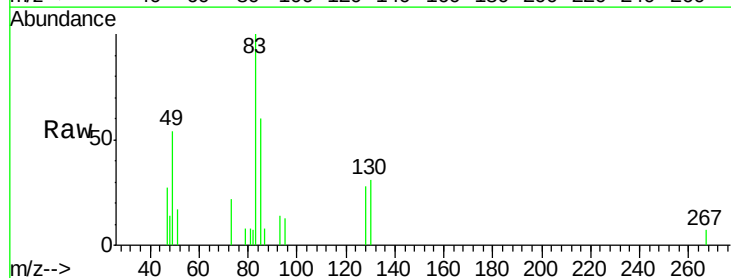
Acq: 10 Oct 2015 8:14

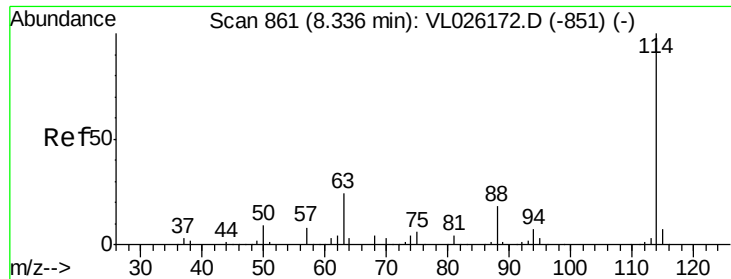
Tgt Ion: 83 Resp: 9683

Ion Ratio Lower Upper

83 100

85 60.2 51.5 77.3

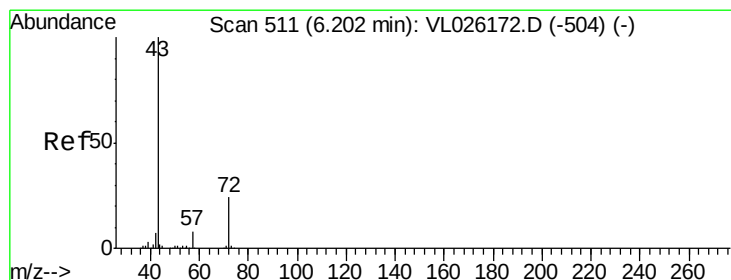
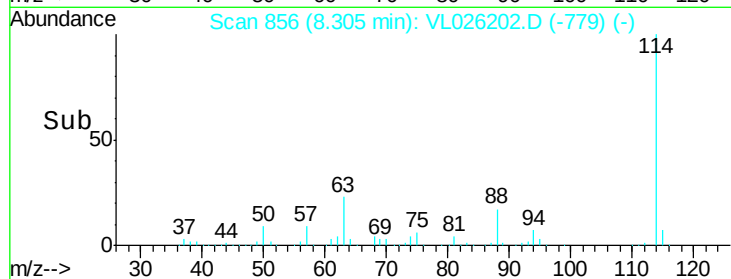
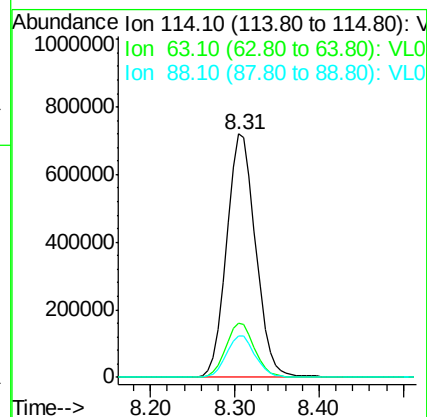
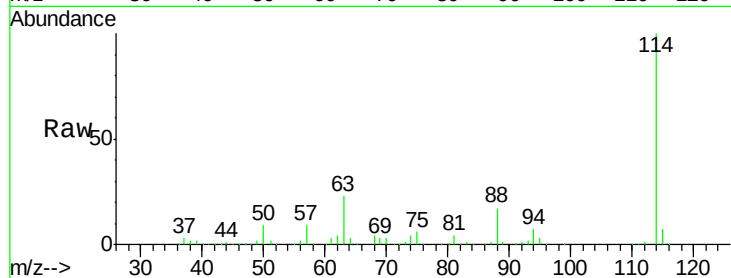




#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 8.31 min Scan# 856  
 Delta R.T. -0.03 min  
 Lab File: VL026202.D  
 Acq: 10 Oct 2015 8:14

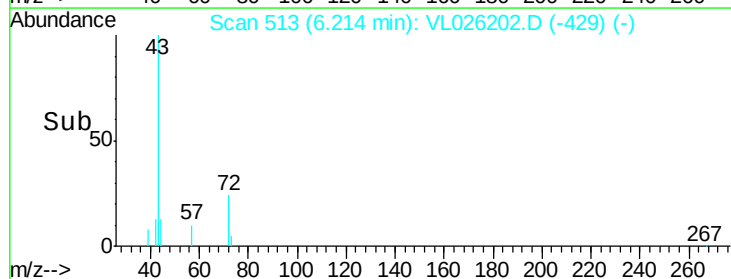
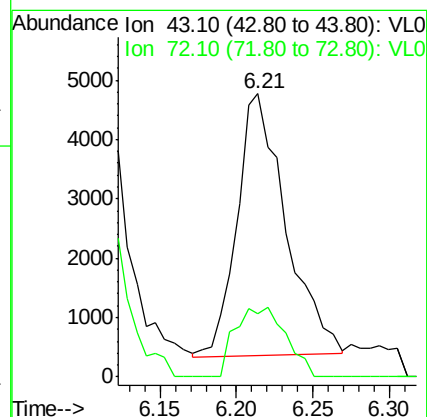
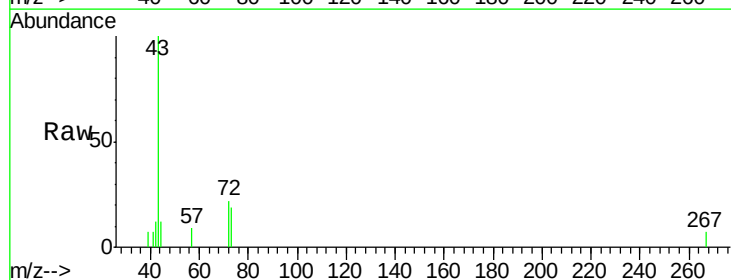
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-3DL

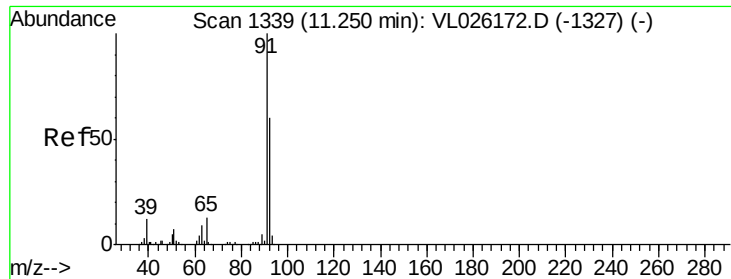
Tot Ion:114 Resp: 1696975  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 19.0 28.6  
 88 17.0 13.8 20.8



#34  
 2-Butanone  
 Concen: 0.10 ppbv  
 RT: 6.21 min Scan# 513  
 Delta R.T. 0.01 min  
 Lab File: VL026202.D  
 Acq: 10 Oct 2015 8:14

Tgt Ion: 43 Resp: 9797  
 Ion Ratio Lower Upper  
 43 100  
 72 27.5 19.6 29.4





#53

Toluene

Concen: 0.19 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

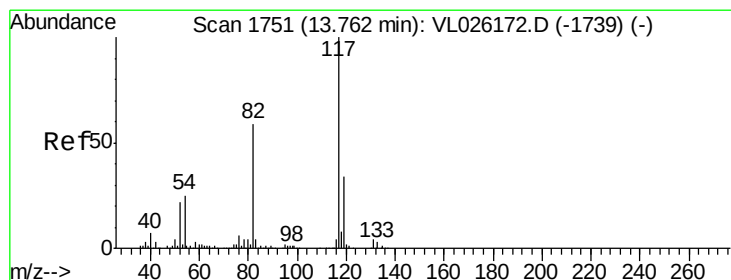
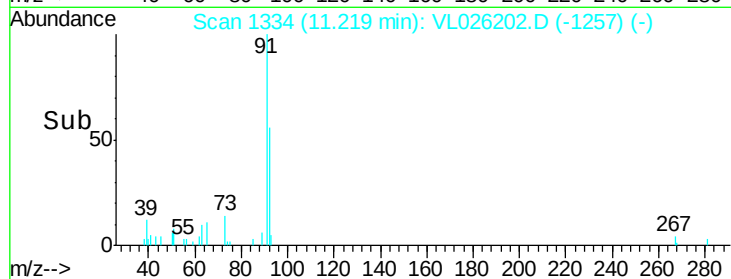
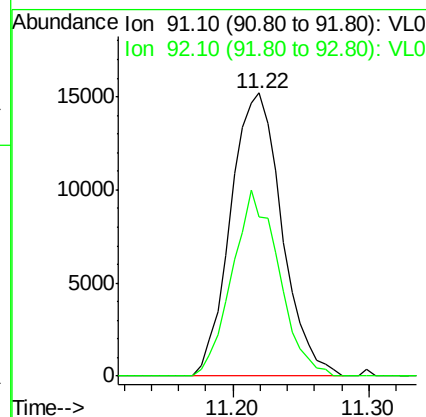
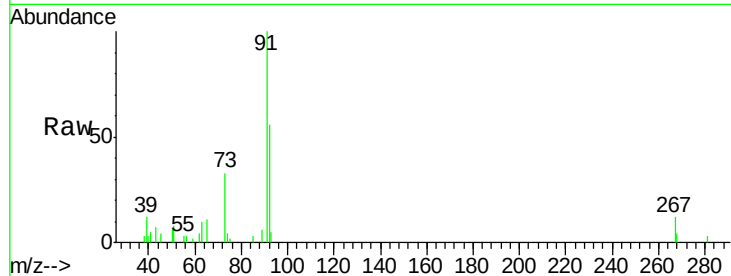
SG-3DL

Tot Ion: 91 Resp: 39921

Ion Ratio Lower Upper

91 100

92 60.1 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.72 min Scan# 1745

Delta R.T. -0.04 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

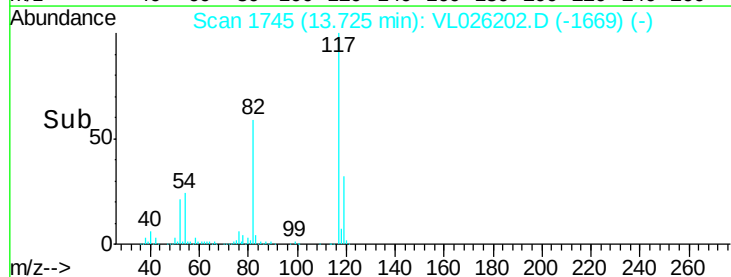
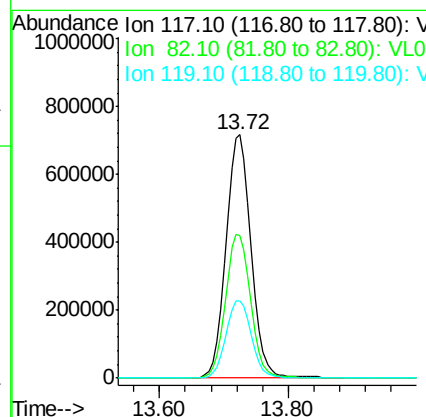
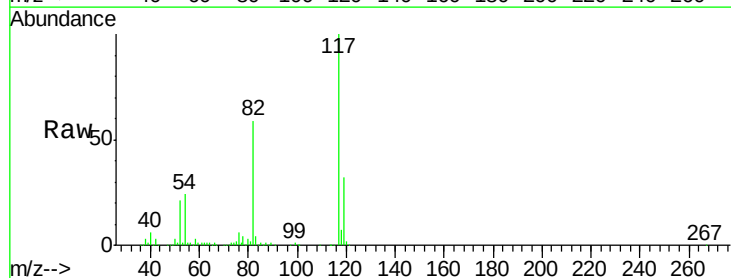
Tgt Ion: 117 Resp: 1973098

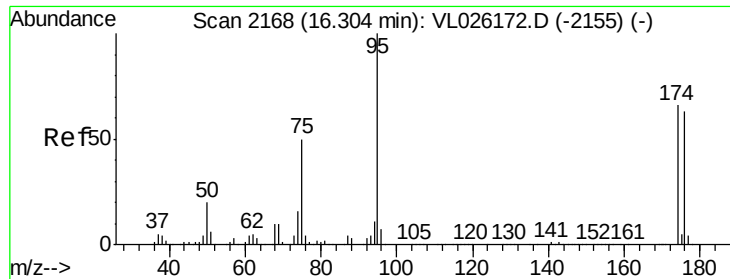
Ion Ratio Lower Upper

117 100

82 59.7 47.7 71.5

119 32.8 43.7 65.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.25 ppbv

RT: 16.27 min Scan# 2162

Delta R.T. -0.04 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

SG-3DL

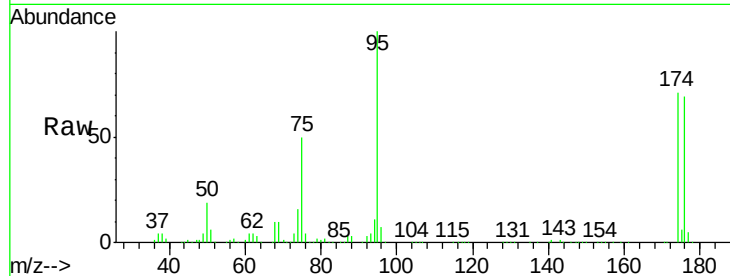
Tot Ion: 95 Resp: 1552631

Ion Ratio Lower Upper

95 100

174 70.8 52.2 78.4

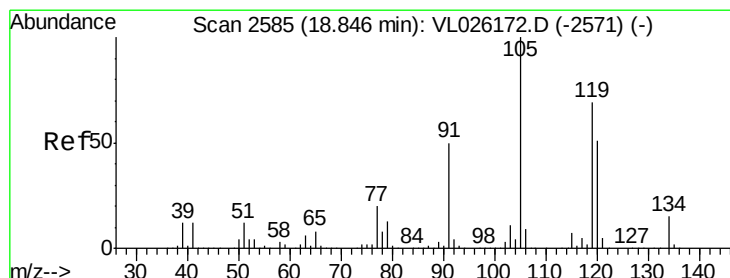
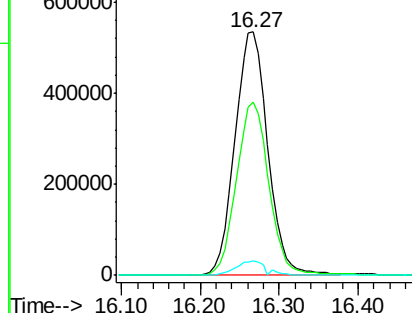
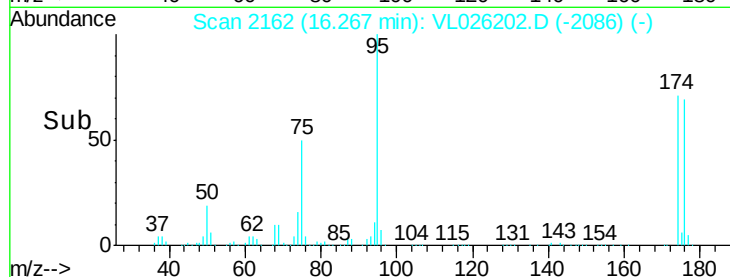
175 5.4 3.9 5.9



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



#74

1,2,4-Trimethylbenzene

Concen: 0.12 ppbv

RT: 18.81 min Scan# 2579

Delta R.T. -0.04 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Tgt Ion: 105 Resp: 29320

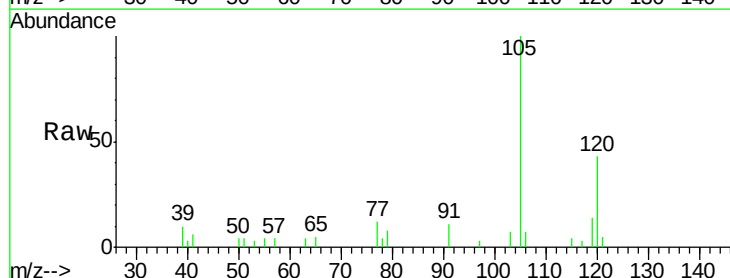
Ion Ratio Lower Upper

105 100

120 43.3 41.1 61.7

91 10.8 39.8 59.6#

77 12.3 16.3 24.5#

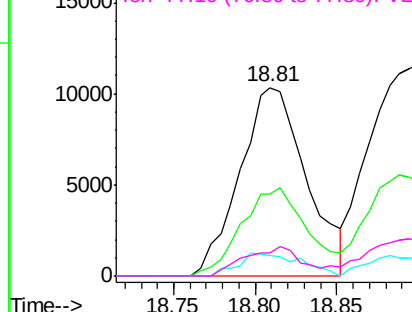
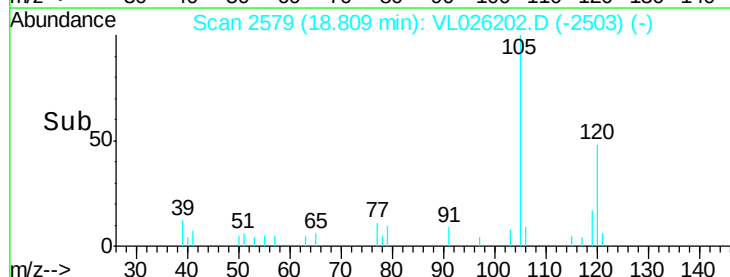


Abundance Ion 105.10 (104.80 to 105.80): V

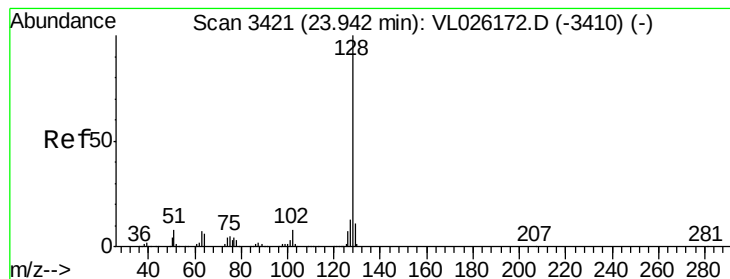
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#79

Naphthalene

Concen: 0.27 ppbv

RT: 23.92 min Scan# 3418

Delta R.T. -0.02 min

Lab File: VL026202.D

Acq: 10 Oct 2015 8:14

Instrument :

MSVOA\_L

ClientSampleId :

SG-3DL

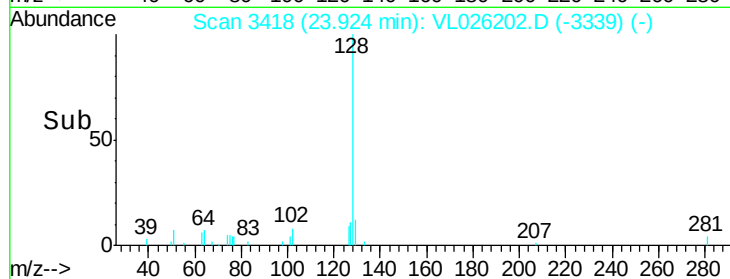
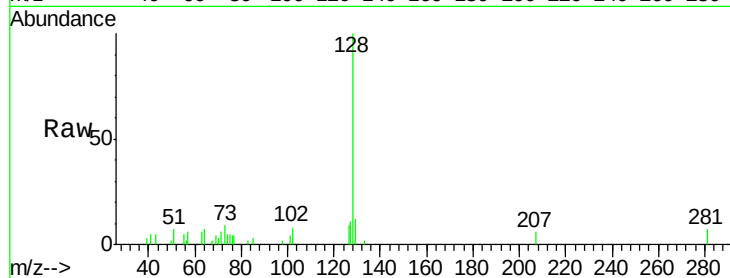
Tot Ion:128 Resp: 42611

Ion Ratio Lower Upper

128 100

127 11.0 10.2 15.2

129 11.6 8.7 13.1



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

