

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\  
 Data File : VL033039.D  
 Acq On : 20 Dec 2018 23:58  
 Operator : SY/AP  
 Sample : J6480-03DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EFFLUENTDL

Quant Time: Dec 21 06:58:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
 QLast Update : Fri Dec 07 09:35:17 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1312927  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 2852227  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 1930893  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 1480800  | 10.38    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.80% |

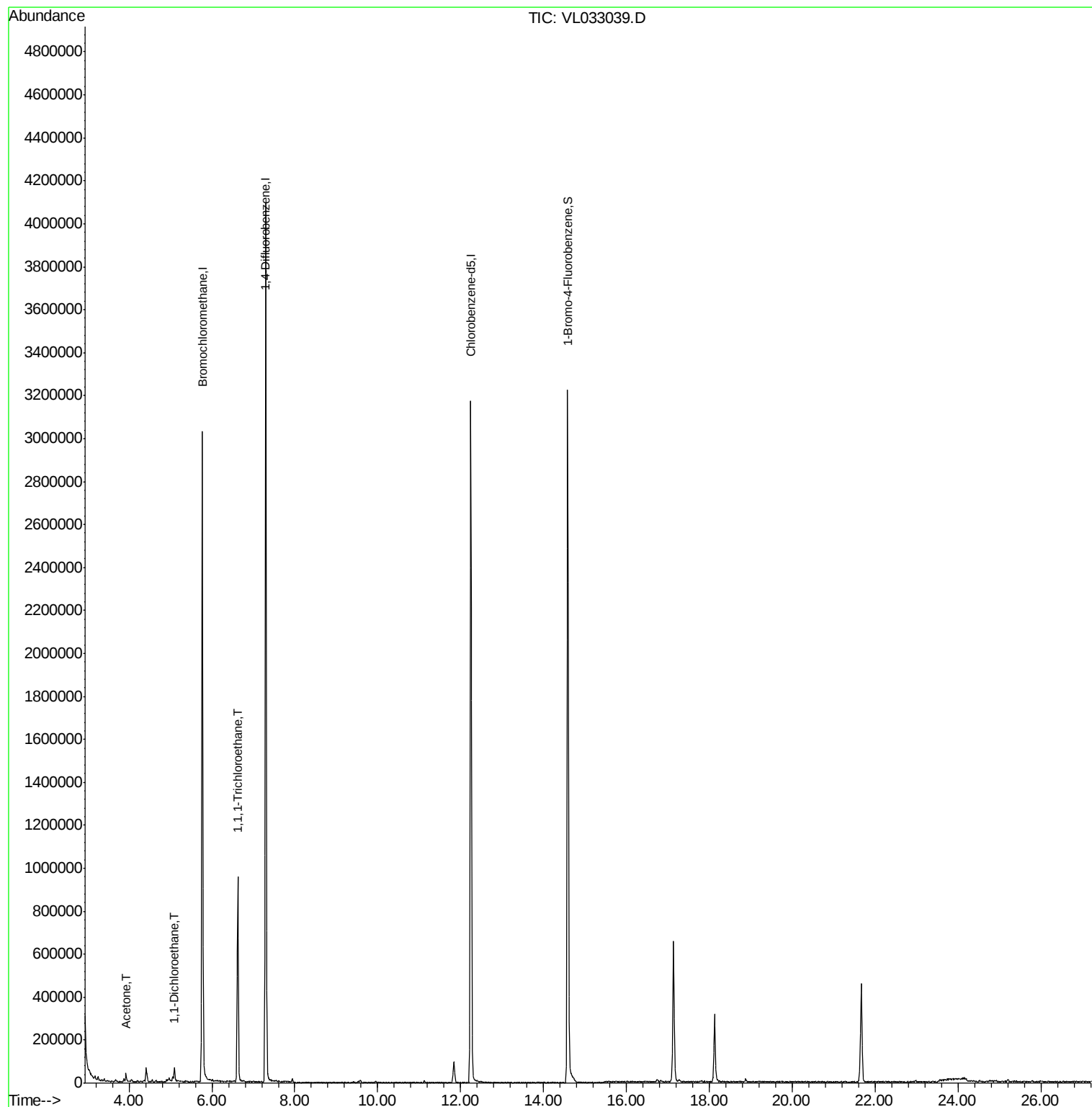
| Target Compounds          | R.T. | QIon | Response | Conc  | Units | Ovalue |
|---------------------------|------|------|----------|-------|-------|--------|
| 15) Acetone               | 3.93 | 43   | 28428    | 0.252 | ppbv  | 98     |
| 24) 1,1-Dichloroethane    | 5.09 | 63   | 47075    | 0.284 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane | 6.62 | 97   | 598338   | 2.579 | ppbv  | 98     |

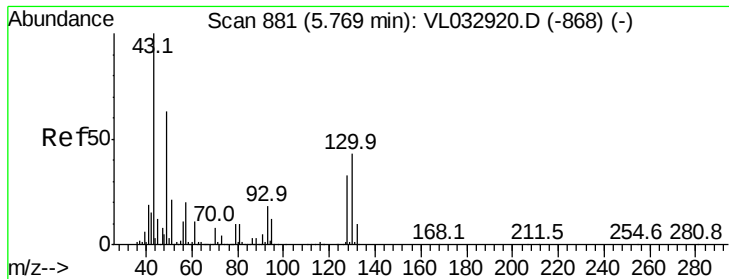
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122018\  
Data File : VL033039.D  
Acq On : 20 Dec 2018 23:58  
Operator : SY/AP  
Sample : J6480-03DL 40X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
EFFLUENTDL

Quant Time: Dec 21 06:58:11 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
QLast Update : Fri Dec 07 09:35:17 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033039.D

Acq: 20 Dec 2018 23:58

Instrument :

MSVOA\_L

ClientSampleId :

EFFLUENTDL

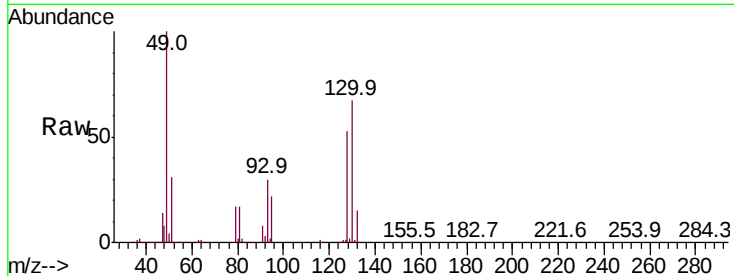
Tot Ion: 49 Resp: 1312927

Ion Ratio Lower Upper

49 100

128 52.9 26.3 78.8

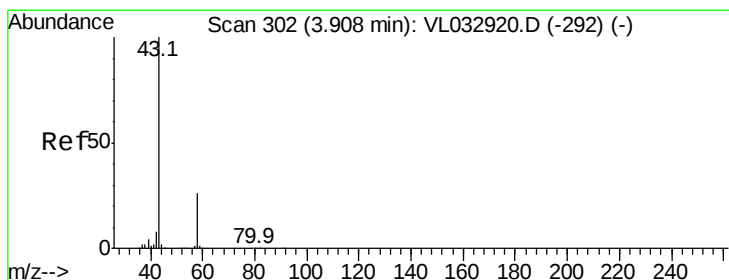
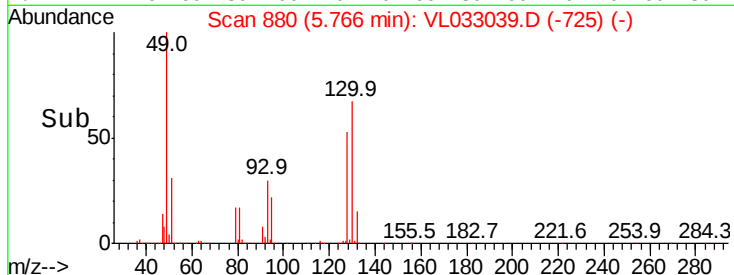
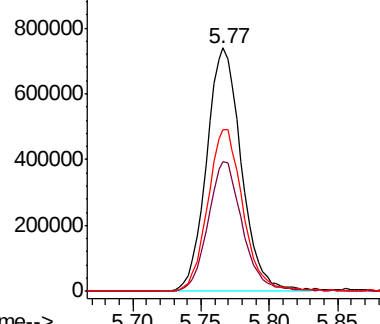
130 67.6 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#15

Acetone

Concen: 0.252 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL033039.D

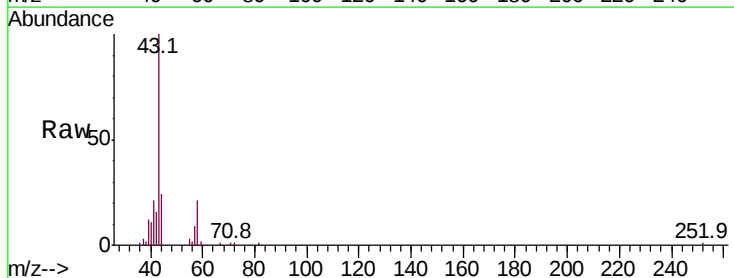
Acq: 20 Dec 2018 23:58

Tgt Ion: 43 Resp: 28428

Ion Ratio Lower Upper

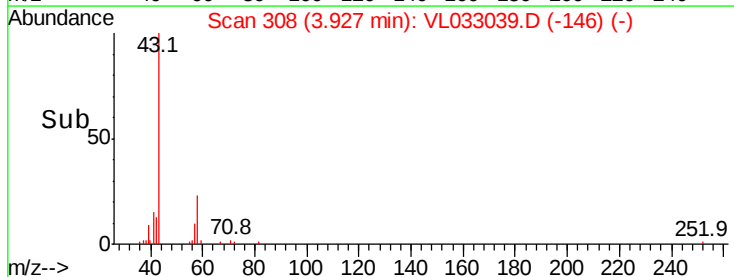
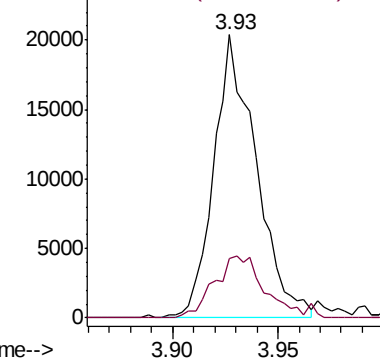
43 100

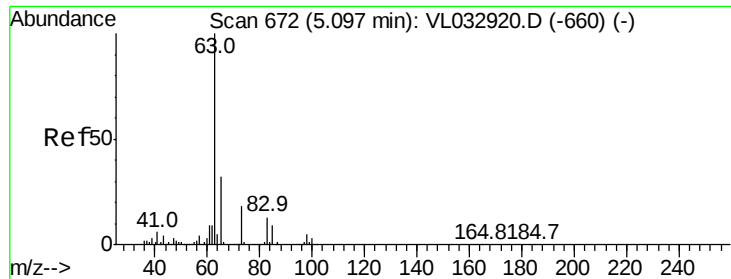
58 26.6 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#24

1,1-Dichloroethane

Concen: 0.284 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033039.D

Acq: 20 Dec 2018 23:58

Instrument :

MSVOA\_L

ClientSampleId :

EFFLUENTDL

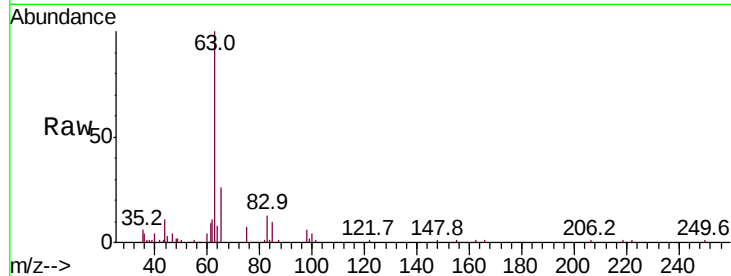
Tot Ion: 63 Resp: 47075

Ion Ratio Lower Upper

63 100

98 5.8 2.5 7.5

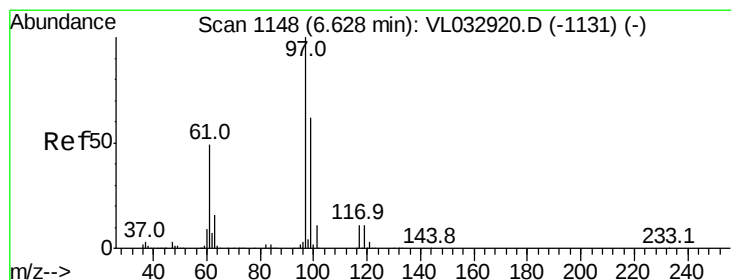
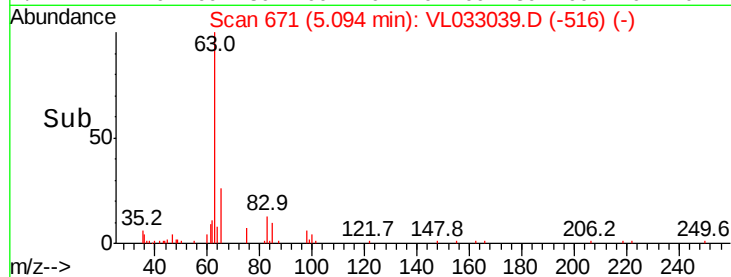
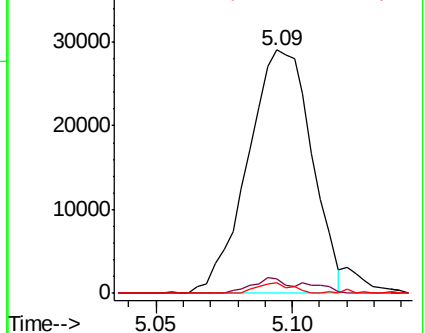
100 4.1 1.4 4.2



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



#32

1,1,1-Trichloroethane

Concen: 2.579 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VL033039.D

Acq: 20 Dec 2018 23:58

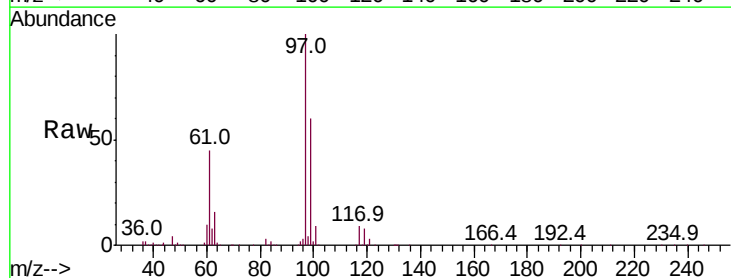
Tgt Ion: 97 Resp: 598338

Ion Ratio Lower Upper

97 100

99 63.2 51.1 76.7

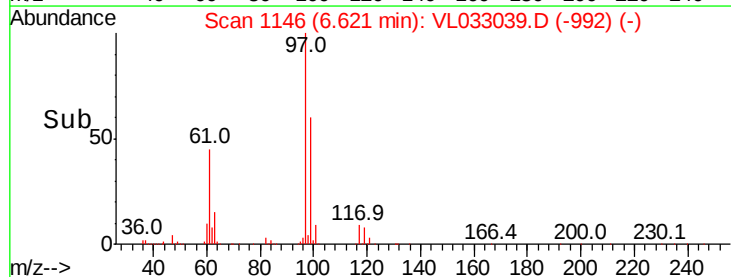
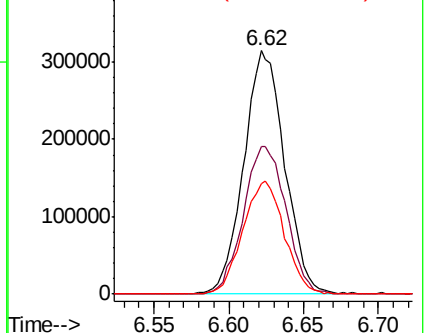
61 47.3 39.3 58.9

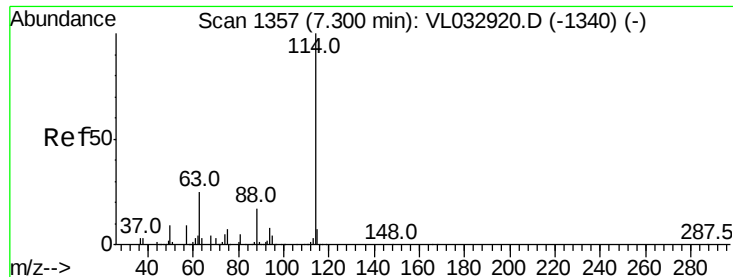


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

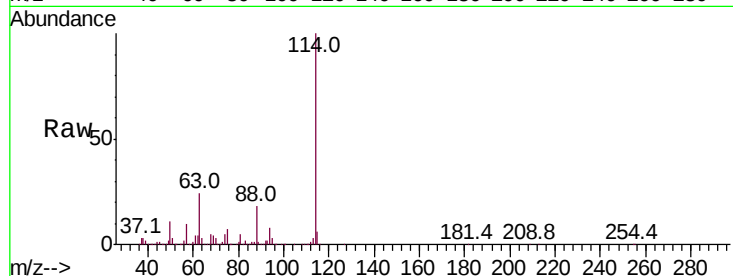




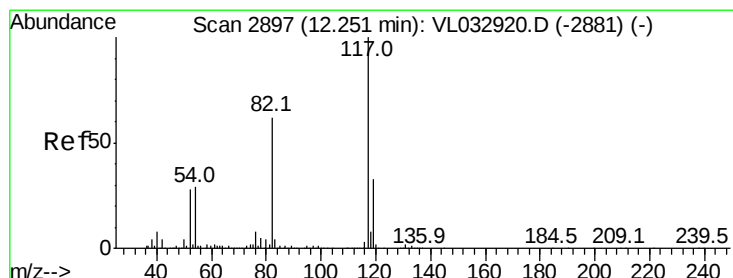
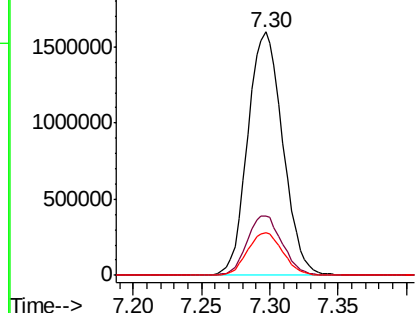
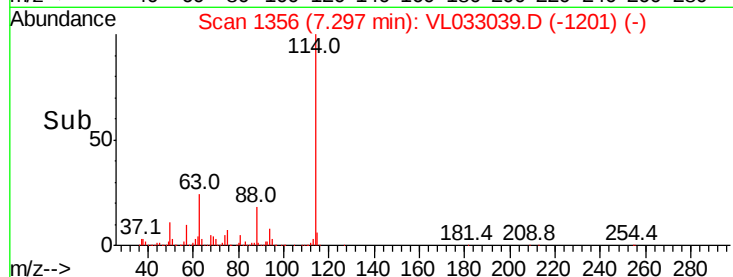
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1356  
 Delta R.T. -0.00 min  
 Lab File: VL033039.D  
 Acq: 20 Dec 2018 23:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EFFLUENTDL

Tot Ion:114 Resp: 2852227  
 Ion Ratio Lower Upper  
 114 100  
 63 24.7 20.1 30.1  
 88 17.7 14.2 21.4

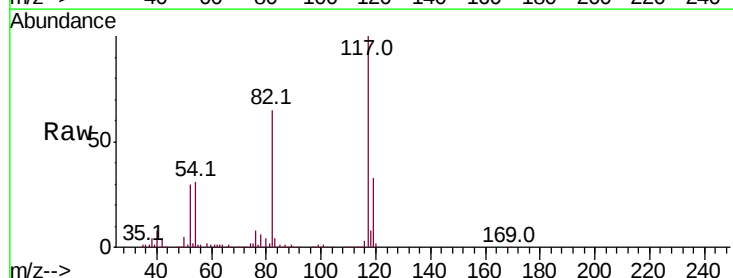


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

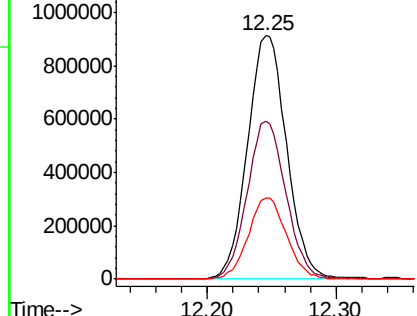
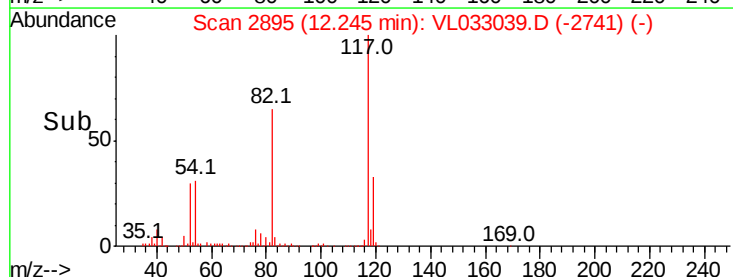


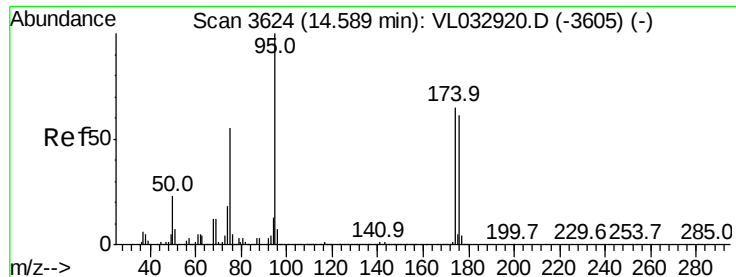
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.25 min Scan# 2895  
 Delta R.T. -0.01 min  
 Lab File: VL033039.D  
 Acq: 20 Dec 2018 23:58

Tgt Ion:117 Resp: 1930893  
 Ion Ratio Lower Upper  
 117 100  
 82 64.9 47.8 71.8  
 119 32.9 43.1 64.7#



Abundance Ion 117.10 (116.80 to 117.80): V  
 Ion 82.10 (81.80 to 82.80): VL0  
 Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.381 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL033039.D

Acq: 20 Dec 2018 23:58

Instrument :

MSVOA\_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 95 Resp: 1480800

Ion Ratio Lower Upper

95 100

174 65.8 51.4 77.0

175 4.7 3.8 5.6

