

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\  
 Data File : VL032545.D  
 Acq On : 25 Sep 2018 14:53  
 Operator : SY/AP  
 Sample : J4999-01DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-EFFLUENTDL

Quant Time: Sep 25 16:31:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 25 05:17:15 2018  
 QLast Update : Tue Sep 25 05:17:15 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.79  | 49   | 1426790  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.32  | 114  | 3095284  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.27 | 117  | 3058075  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.61  | 95    | 2421667  | 10.50    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.00% |

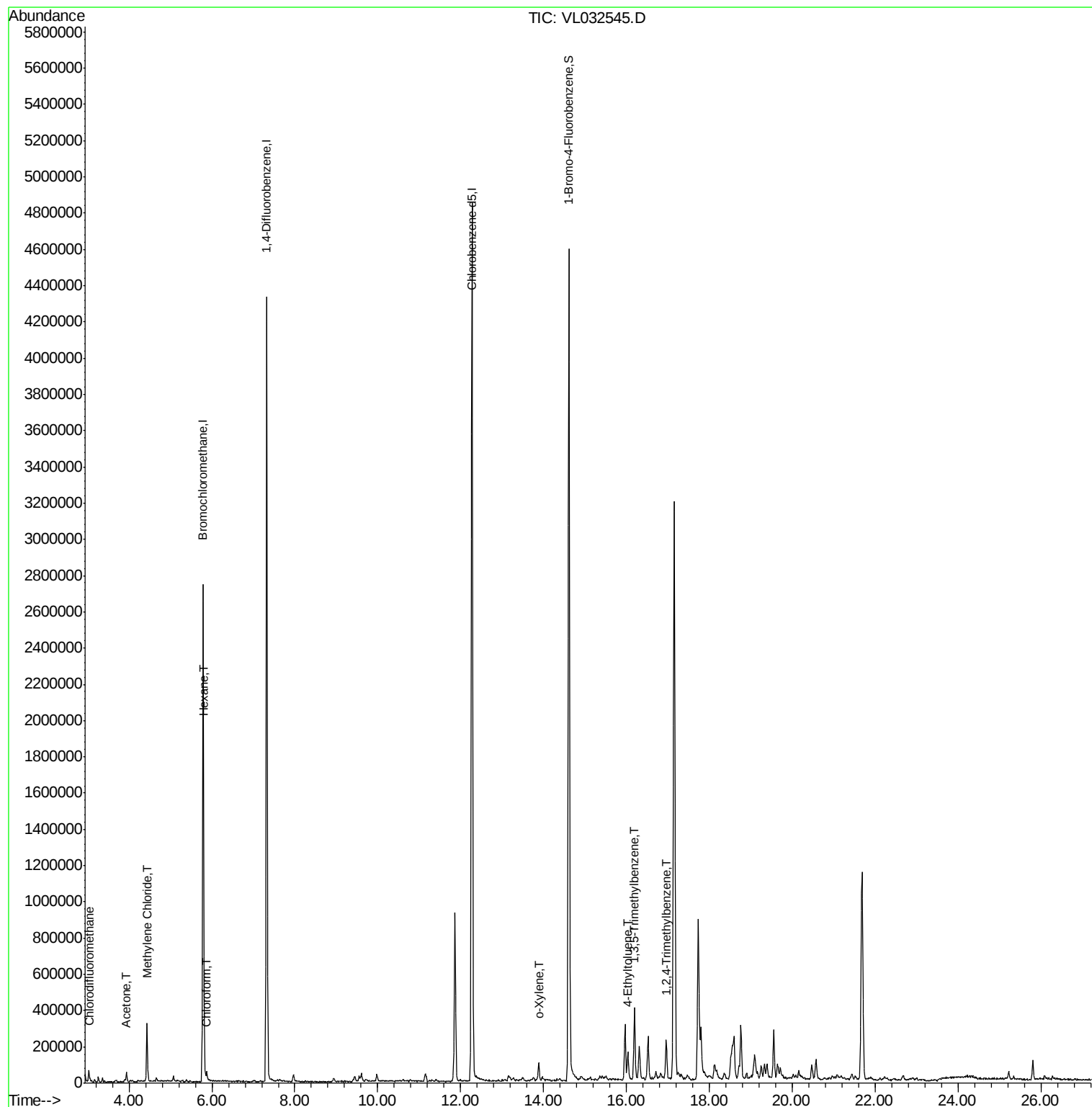
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Chlorodifluoromethane   | 3.03  | 51   | 61491    | 0.518 | ppbv   | 94     |
| 15) Acetone                | 3.94  | 43   | 52740    | 0.421 | ppbv   | 97     |
| 20) Methylene Chloride     | 4.44  | 84   | 108043   | 1.781 | ppbv   | 93     |
| 26) Hexane                 | 5.81  | 57   | 25962    | 0.189 | ppbv # | 44     |
| 29) Chloroform             | 5.87  | 83   | 27234    | 0.129 | ppbv   | 94     |
| 60) o-Xylene               | 13.88 | 91   | 68258    | 0.212 | ppbv   | 95     |
| 72) 4-Ethyltoluene         | 16.03 | 105  | 91728    | 0.263 | ppbv # | 96     |
| 73) 1,3,5-Trimethylbenzene | 16.19 | 105  | 273713   | 0.808 | ppbv   | 98     |
| 74) 1,2,4-Trimethylbenzene | 16.96 | 105  | 152752   | 0.419 | ppbv # | 66     |

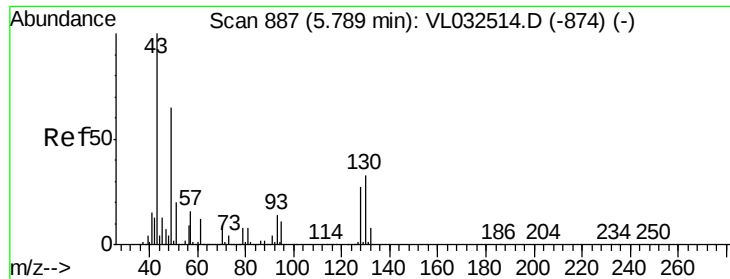
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\  
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Quant Time: Sep 25 16:31:52 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 25 05:17:15 2018  
QLast Update : Tue Sep 25 05:17:15 2018  
Response via : Initial Calibration



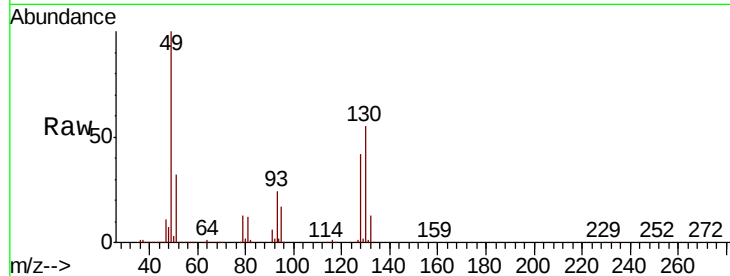


#1

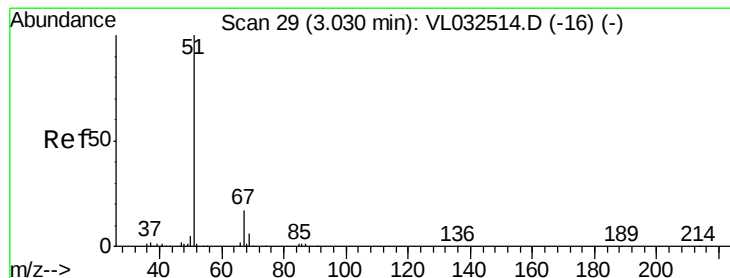
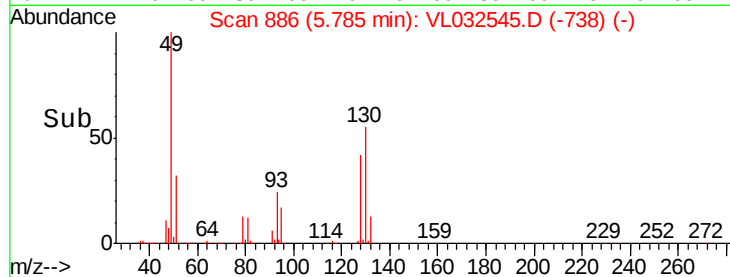
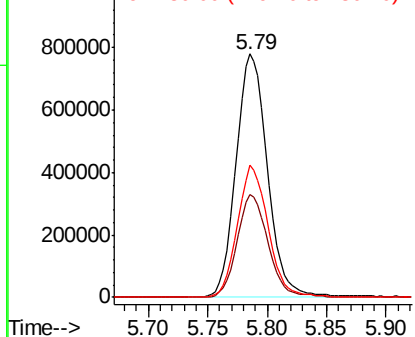
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.79 min Scan# 886  
 Delta R.T. -0.02 min  
 Lab File: VL032545.D  
 Acq: 25 Sep 2018 14:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-EFFLUENTDL

Tot Ion: 49 Resp: 1426790  
 Ion Ratio Lower Upper  
 49 100  
 128 42.0 20.7 62.1  
 130 53.5 26.6 79.7



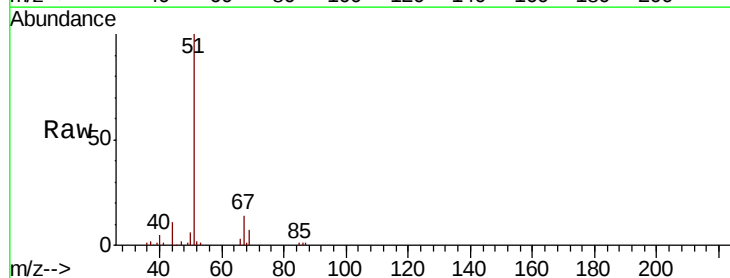
Abundance Ion 49.10 (48.80 to 49.80): VL0  
 Ion 128.00 (127.70 to 128.70): V  
 Ion 130.00 (129.70 to 130.70): V



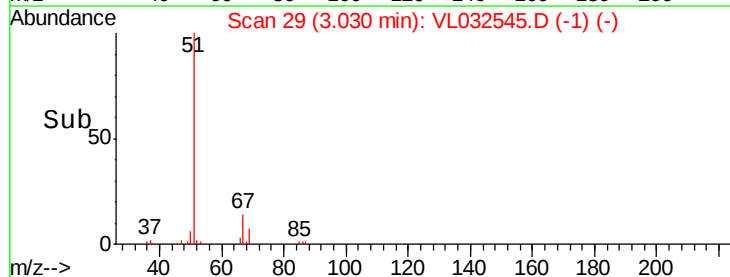
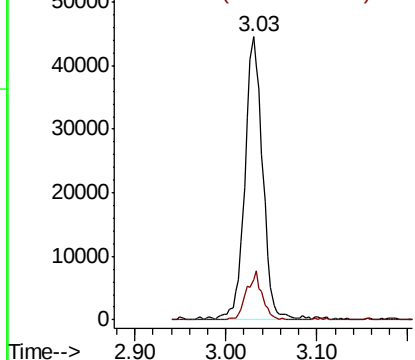
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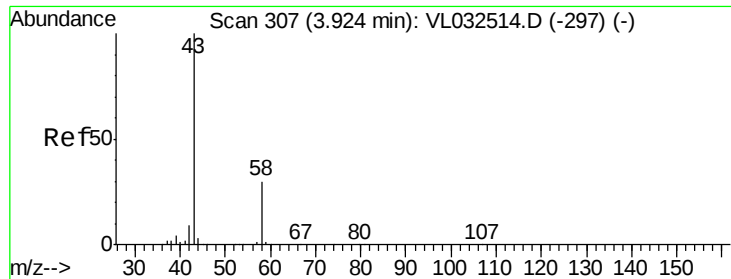
Chlorodifluoromethane  
 Concen: 0.518 ppbv  
 RT: 3.03 min Scan# 29  
 Delta R.T. -0.01 min  
 Lab File: VL032545.D  
 Acq: 25 Sep 2018 14:53

Tgt Ion: 51 Resp: 61491  
 Ion Ratio Lower Upper  
 51 100  
 67 14.9 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0  
 Ion 67.00 (66.70 to 67.70): VL0





#15

Acetone

Concen: 0.421 ppbv

RT: 3.94 min Scan# 311

Delta R.T. -0.00 min

Lab File: VL032545.D

Acq: 25 Sep 2018 14:53

Instrument :

MSVOA\_L

ClientSampleId :

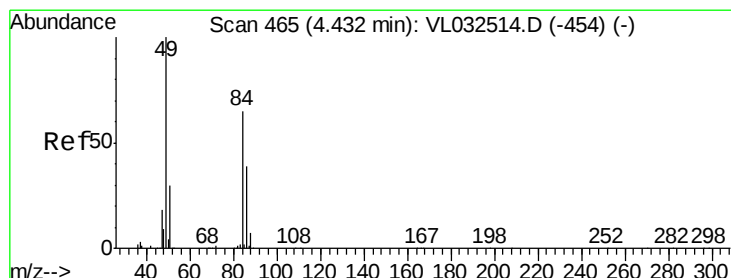
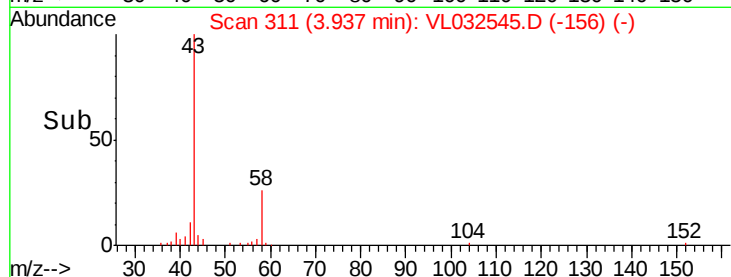
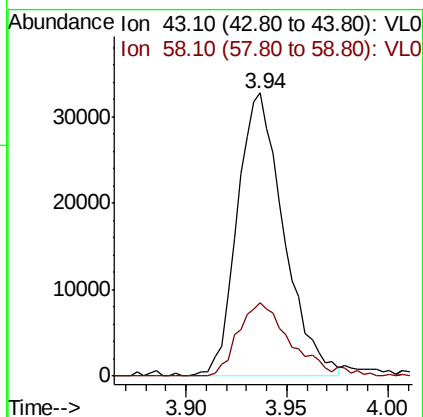
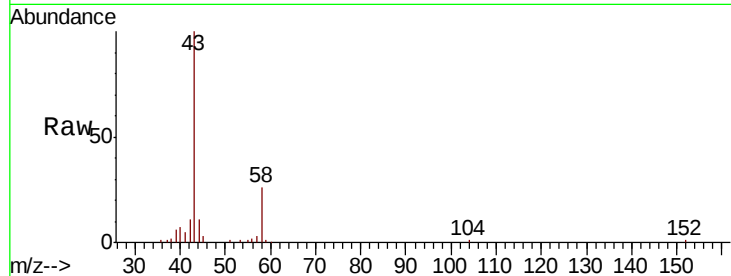
SVE-EFFLUENTDL

Tot Ion: 43 Resp: 52740

Ion Ratio Lower Upper

43 100

58 29.6 22.6 33.8



#20

Methylene Chloride

Concen: 1.781 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032545.D

Acq: 25 Sep 2018 14:53

Tgt Ion: 84 Resp: 108043

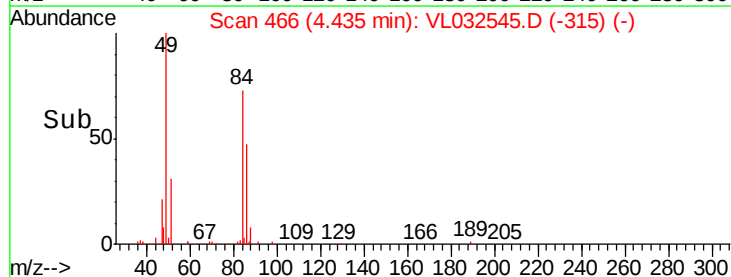
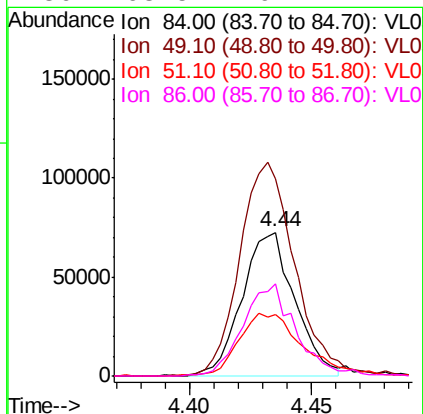
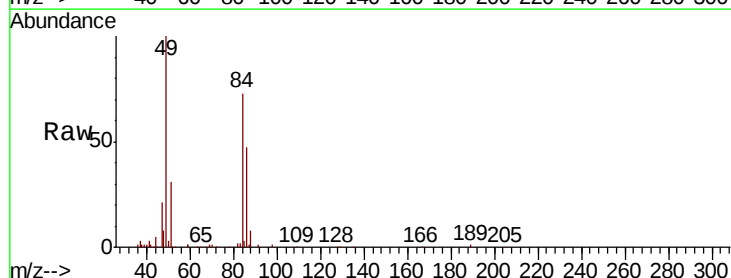
Ion Ratio Lower Upper

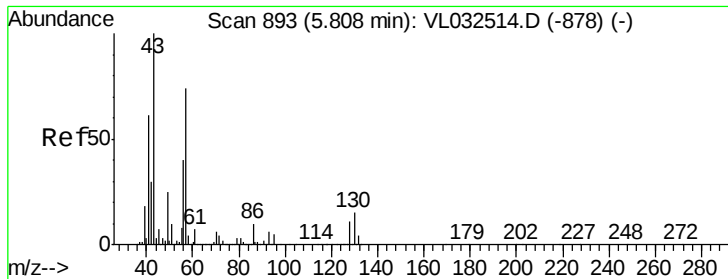
84 100

49 136.2 119.1 178.7

51 42.5 35.2 52.8

86 63.5 49.4 74.2





#26

Hexane

Concen: 0.189 ppbv

RT: 5.81 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL032545.D

Acq: 25 Sep 2018 14:53

Instrument :

MSVOA\_L

ClientSampleId :

SVE-EFFLUENTDL

Tot Ion: 57 Resp: 25962

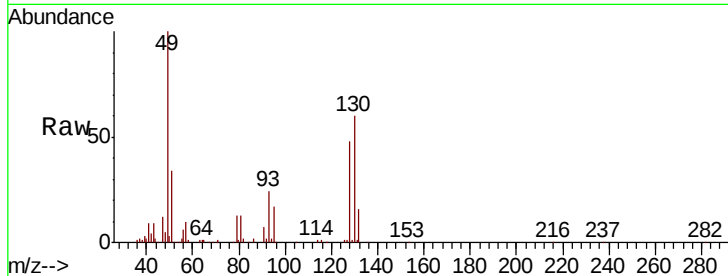
Ion Ratio Lower Upper

57 100

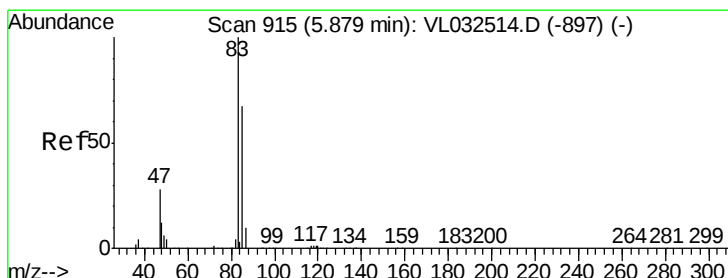
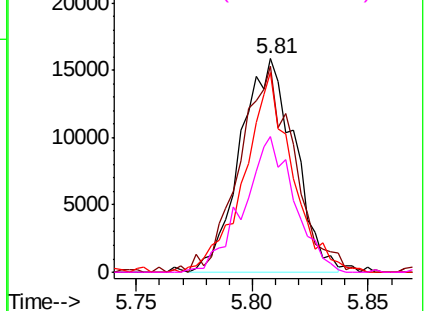
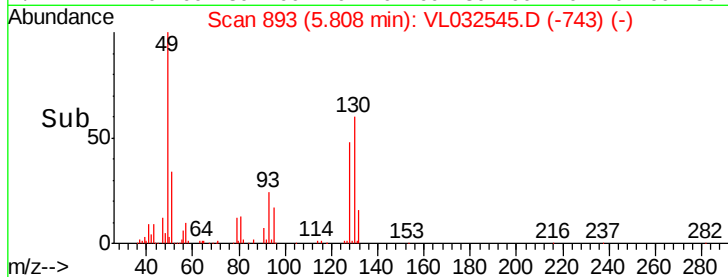
41 98.3 69.0 103.4

43 82.3 172.1 258.1#

56 59.5 42.2 63.2



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



#29

Chloroform

Concen: 0.129 ppbv

RT: 5.87 min Scan# 913

Delta R.T. -0.02 min

Lab File: VL032545.D

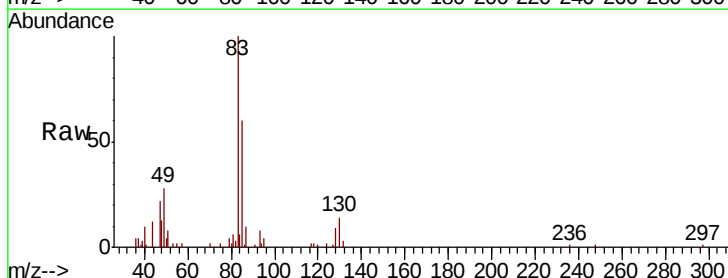
Acq: 25 Sep 2018 14:53

Tgt Ion: 83 Resp: 27234

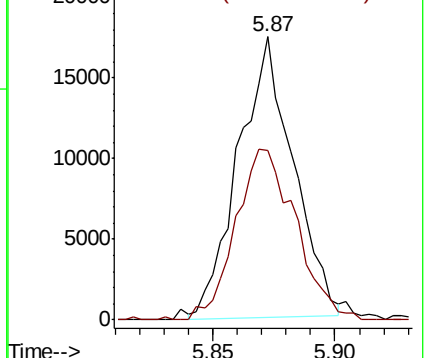
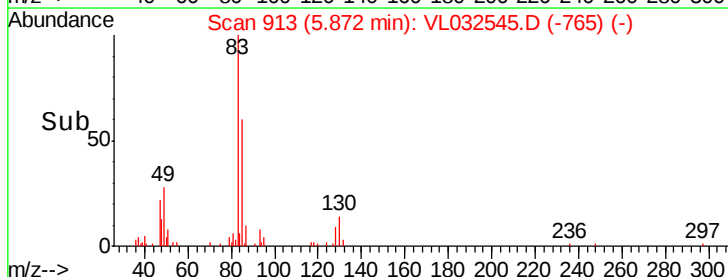
Ion Ratio Lower Upper

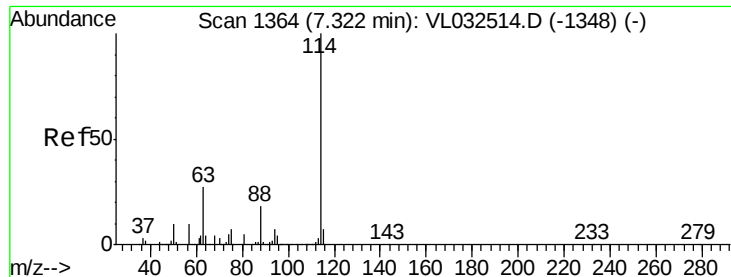
83 100

85 60.9 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0

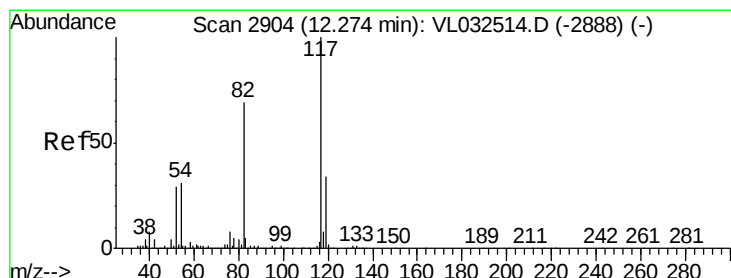
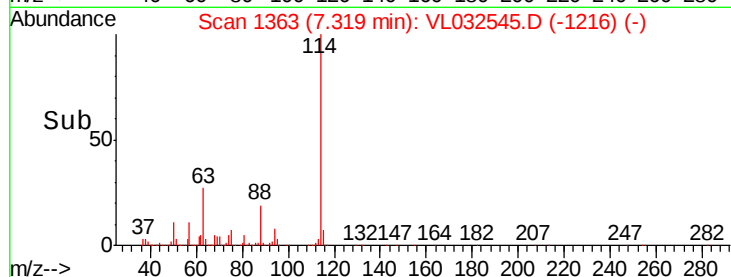
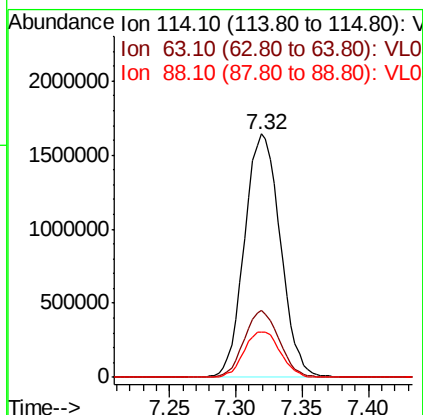
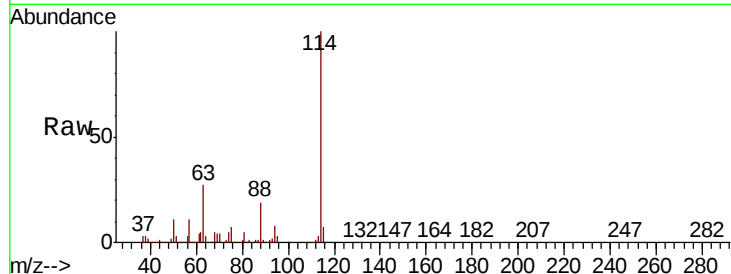




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.32 min Scan# 1363  
 Delta R.T. -0.03 min  
 Lab File: VL032545.D  
 Acq: 25 Sep 2018 14:53

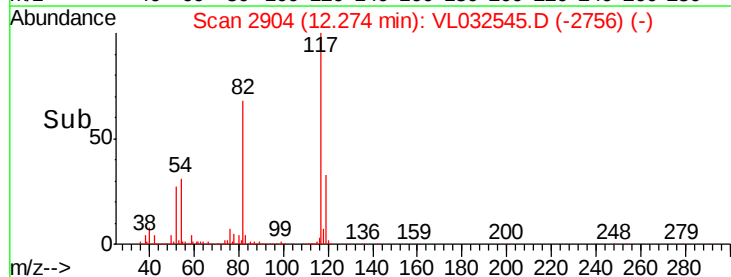
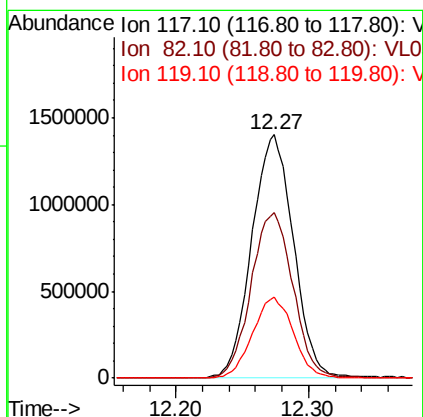
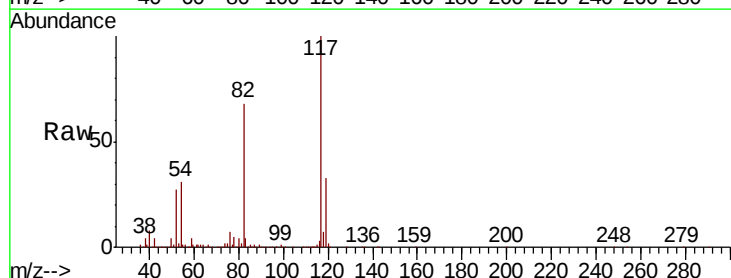
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-EFFLUENTDL

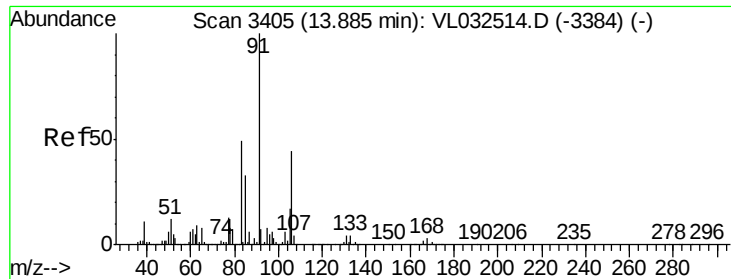
Tot Ion:114 Resp: 3095284  
 Ion Ratio Lower Upper  
 114 100  
 63 26.9 22.2 33.4  
 88 19.1 15.0 22.4



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.27 min Scan# 2904  
 Delta R.T. -0.02 min  
 Lab File: VL032545.D  
 Acq: 25 Sep 2018 14:53

Tgt Ion:117 Resp: 3058075  
 Ion Ratio Lower Upper  
 117 100  
 82 68.8 53.0 79.6  
 119 32.9 45.9 68.9#

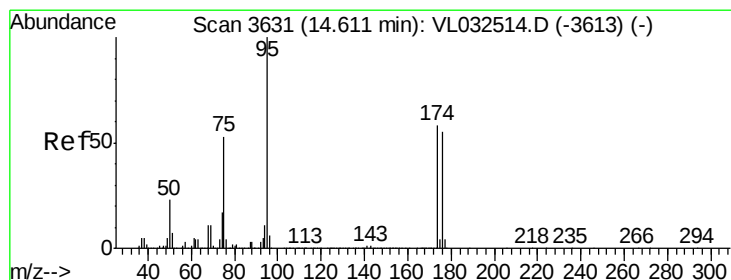
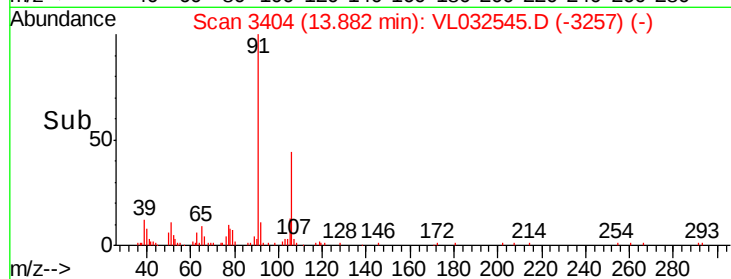
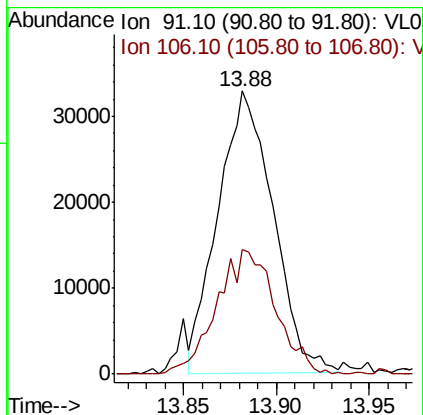
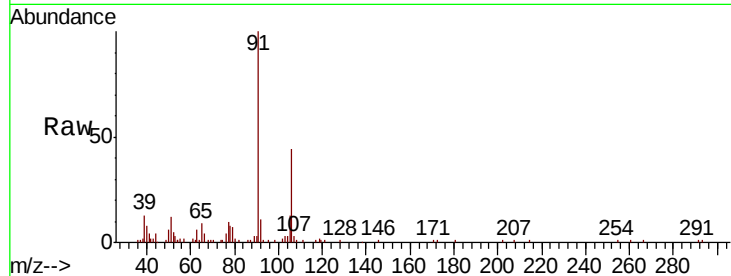




#60  
o-Xylene  
Concen: 0.212 ppbv  
RT: 13.88 min Scan# 3404  
Delta R.T. -0.03 min  
Lab File: VL032545.D  
Acq: 25 Sep 2018 14:53

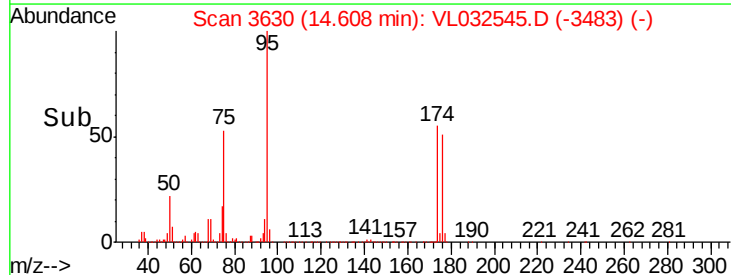
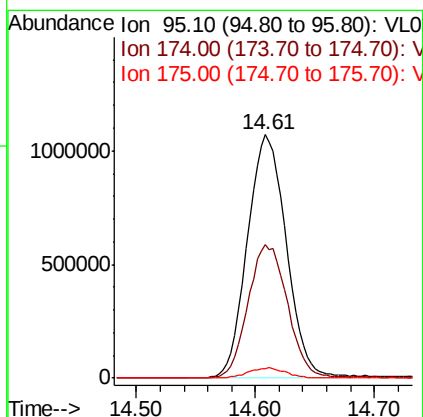
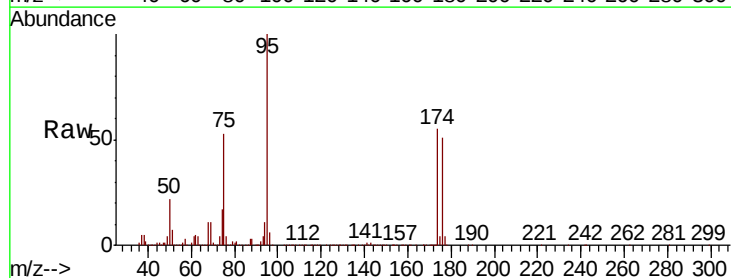
Instrument :  
MSVOA\_L  
ClientSampleId :  
SVE-EFFLUENTDL

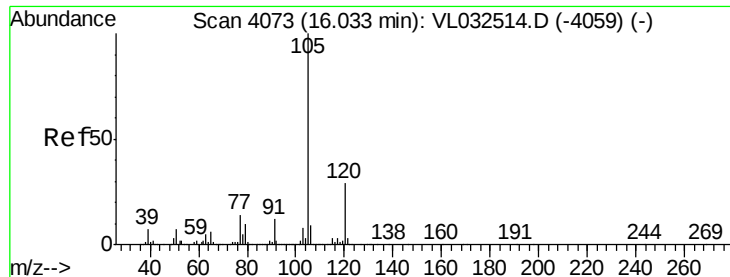
Tot Ion: 91 Resp: 68258  
Ion Ratio Lower Upper  
91 100  
106 47.0 21.9 65.7



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.501 ppbv  
RT: 14.61 min Scan# 3630  
Delta R.T. -0.03 min  
Lab File: VL032545.D  
Acq: 25 Sep 2018 14:53

Tgt Ion: 95 Resp: 2421667  
Ion Ratio Lower Upper  
95 100  
174 56.7 46.3 69.5  
175 4.2 3.4 5.0





#72

4-Ethyltoluene

Concen: 0.263 ppbv

RT: 16.03 min Scan# 4073

Delta R.T. -0.02 min

Lab File: VL032545.D

Acq: 25 Sep 2018 14:53

Instrument :

MSVOA\_L

ClientSampleId :

SVE-EFFLUENTDL

Tot Ion:105 Resp: 91728

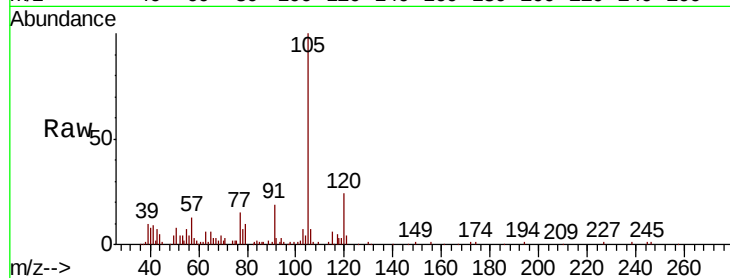
Ion Ratio Lower Upper

105 100

120 28.5 23.5 35.3

91 17.0 10.2 15.2#

77 15.4 11.1 16.7

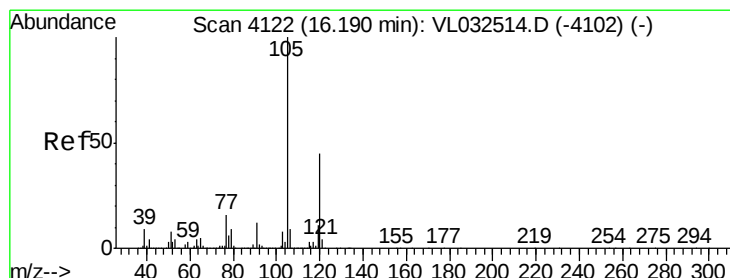
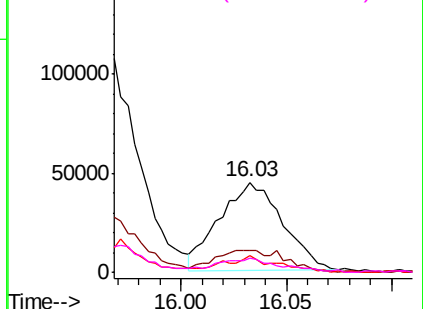
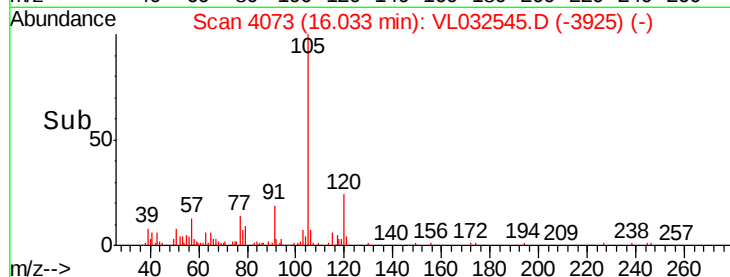


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.808 ppbv

RT: 16.19 min Scan# 4123

Delta R.T. -0.02 min

Lab File: VL032545.D

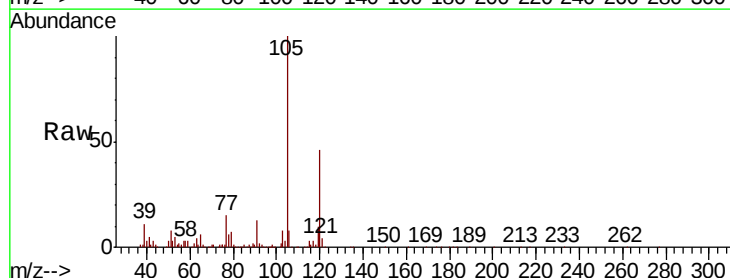
Acq: 25 Sep 2018 14:53

Tgt Ion:105 Resp: 273713

Ion Ratio Lower Upper

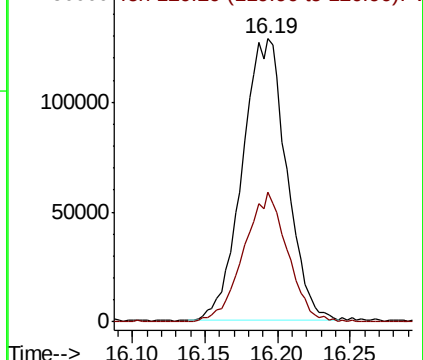
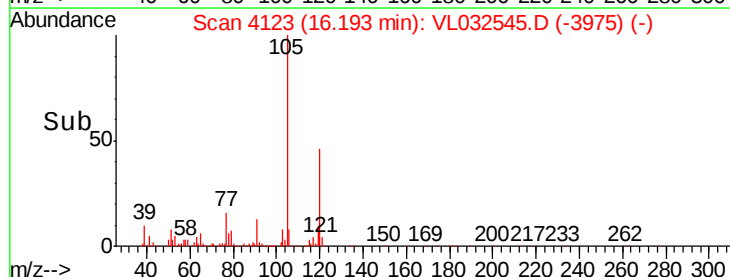
105 100

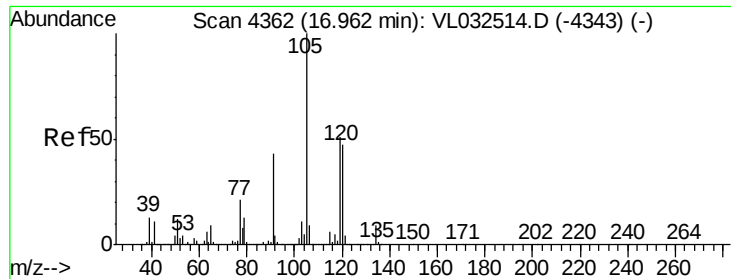
120 45.9 37.9 56.9



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: 0.419 ppbv  
 RT: 16.96 min Scan# 4362  
 Delta R.T. -0.02 min  
 Lab File: VL032545.D  
 Acq: 25 Sep 2018 14:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-EFFLUENTDL

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 152752 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 39.5  | 37.8  | 56.8   |
| 91       | 11.2  | 41.4  | 62.0#  |
| 77       | 11.1  | 18.6  | 28.0#  |

