

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
 Data File : VL033845.D  
 Acq On : 29 May 2019 21:27  
 Operator : SY/AP  
 Sample : K3067-01DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-25-20190522-ODL

Manual Integrations  
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Quant Time: May 30 02:30:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri May 1  
 QLast Update : Fri May 17 08:15:41 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 684416   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1564995  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 1528793  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1310234  | 10.57    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.70% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Ovalue |
|------------------------|------|------|----------|-------|-------|--------|
| 13) Ethanol            | 3.66 | 45   | 24218m   | 2.247 | ppbv  |        |
| 15) Acetone            | 3.90 | 43   | 104022   | 1.095 | ppbv  | 94     |
| 20) Methylene Chloride | 4.41 | 84   | 13881    | 0.380 | ppbv  | 94     |
| 26) Hexane             | 5.78 | 57   | 19098m   | 0.266 | ppbv  |        |
| 34) 2-Butanone         | 5.34 | 43   | 10385m   | 0.107 | ppbv  |        |

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

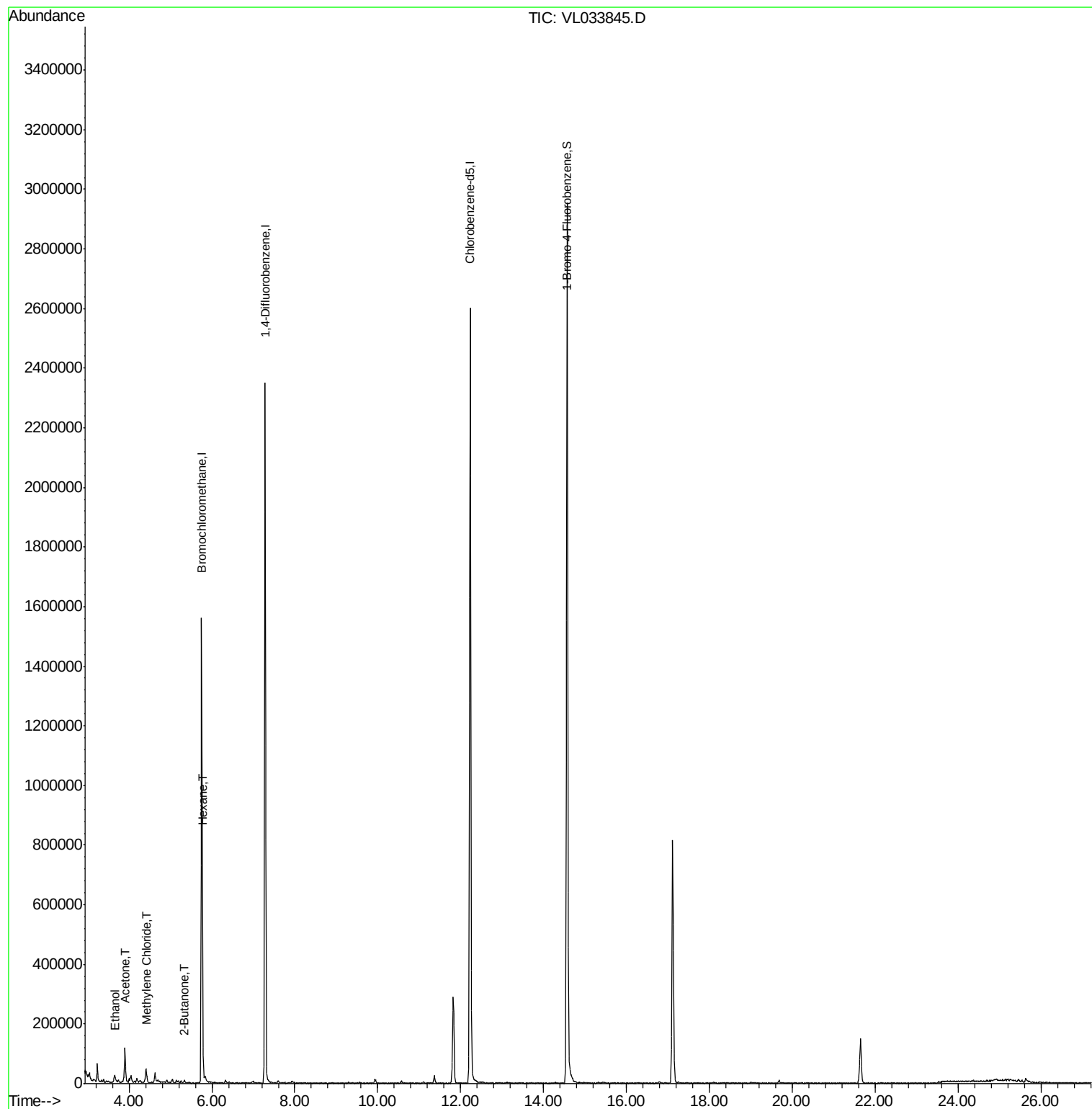
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
Data File : VL033845.D  
Acq On : 29 May 2019 21:27  
Operator : SY/AP  
Sample : K3067-01DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

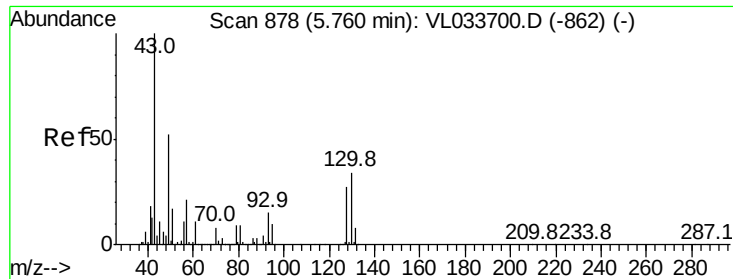
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-25-20190522-ODL

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Quant Time: May 30 02:30:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri May  
QLast Update : Fri May 17 08:15:41 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA\_L

ClientSampleId :

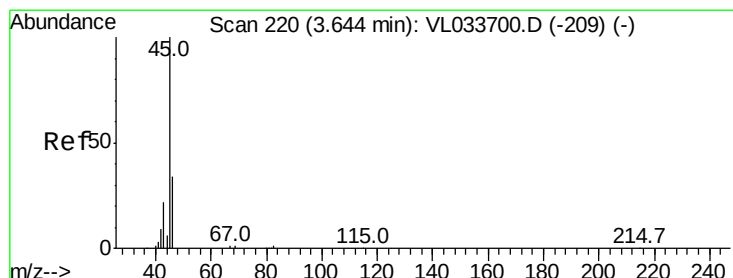
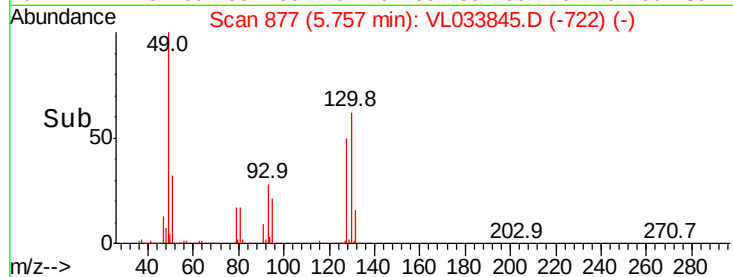
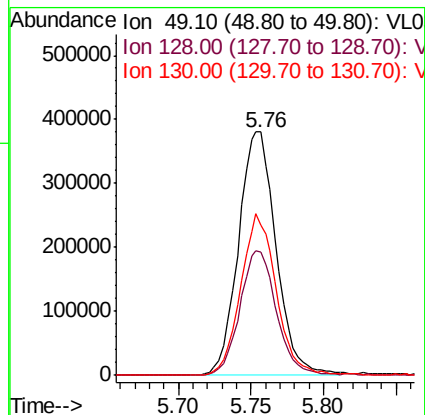
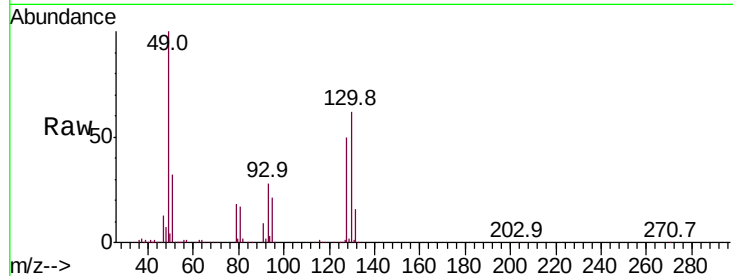
SG-25-20190522-ODL

Tot Ion: 49 Resp: 684416

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 50.5  | 25.2  | 75.6  |
| 130 | 62.9  | 32.5  | 97.5  |

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#13

Ethanol

Concen: 2.247 ppbv m

RT: 3.66 min Scan# 226

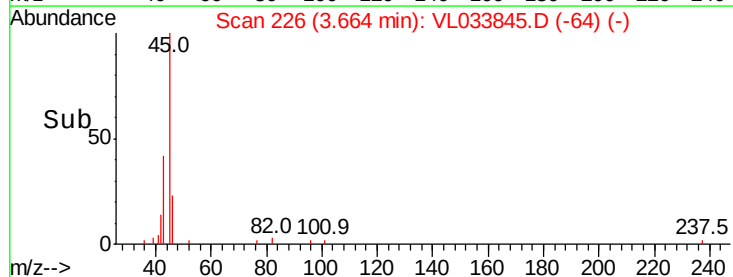
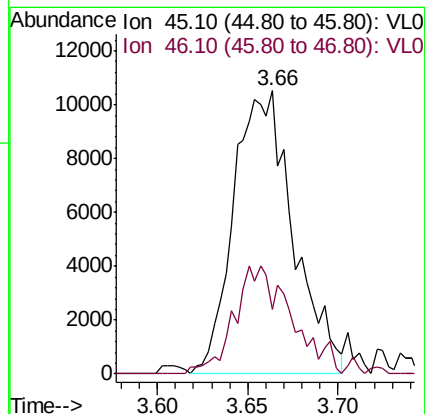
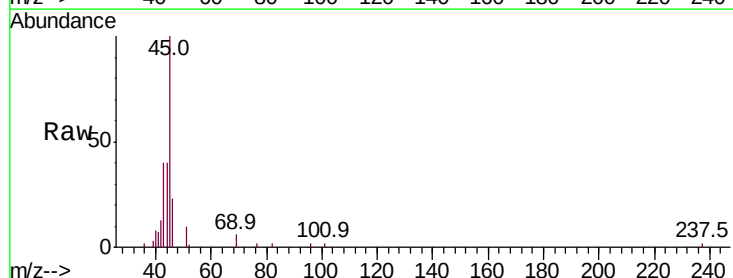
Delta R.T. 0.02 min

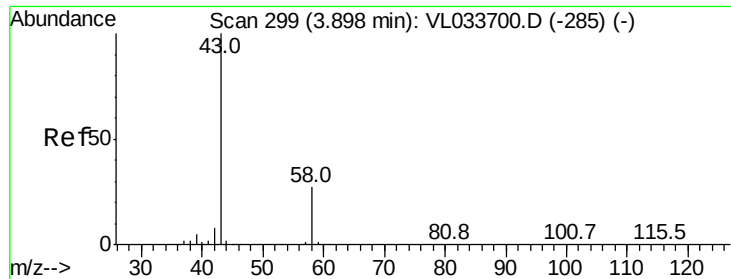
Lab File: VL033845.D

Acq: 29 May 2019 21:27

Tgt Ion: 45 Resp: 24218

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 46  | 37.9  | 14.8  | 59.0  |





#15

Acetone

Concen: 1.095 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-25-20190522-ODL

Tot Ion: 43 Resp: 104022

Ion Ratio Lower Upper

43 100

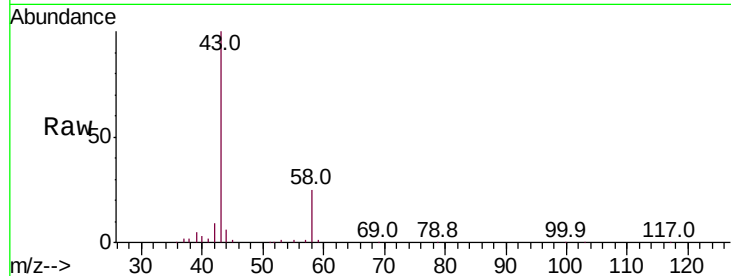
58 29.8 21.3 31.9

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

80000

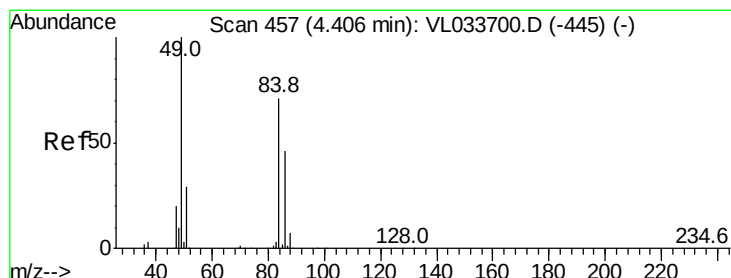
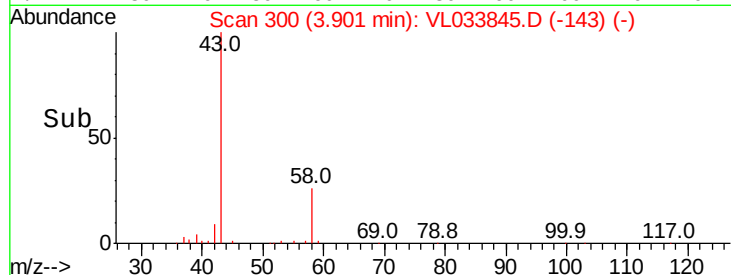
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 0.380 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Tgt Ion: 84 Resp: 13881

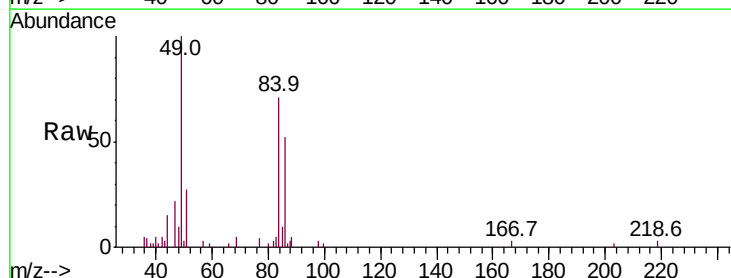
Ion Ratio Lower Upper

84 100

49 137.8 112.8 169.2

51 34.8 33.4 50.0

86 73.8 51.7 77.5



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

4.41

20000

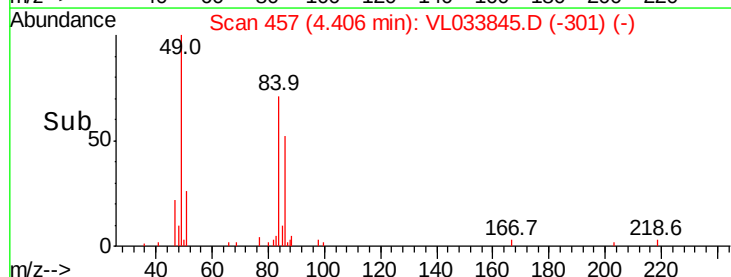
15000

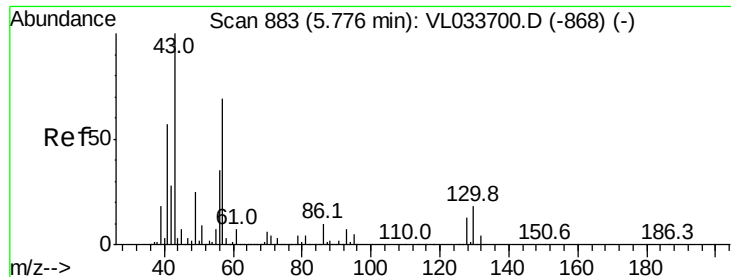
10000

5000

0

Time-->





#26

Hexane

Concen: 0.266 ppbv m

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-25-20190522-ODL

Tot Ion: 57 Resp: 19098

Ion Ratio Lower Upper

57 100

41 0.0 69.8 104.6#

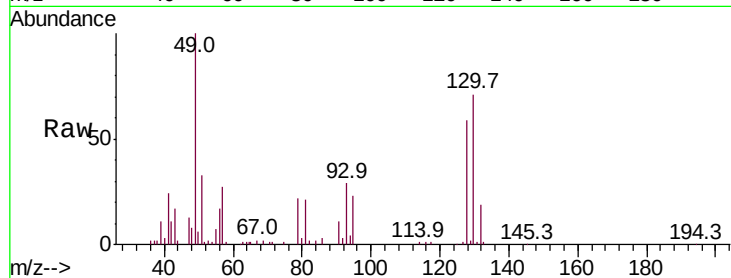
43 0.0 181.8 272.6#

56 64.9 42.1 63.1#

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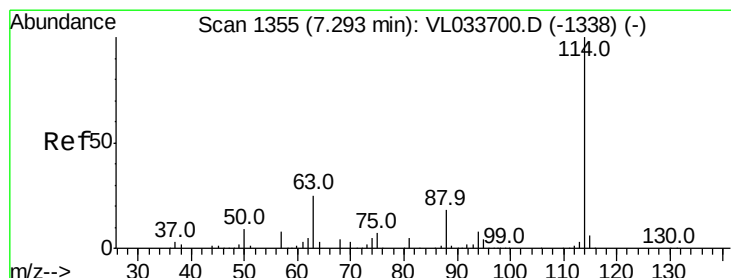
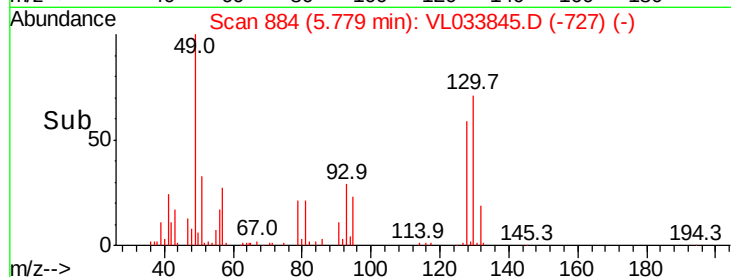
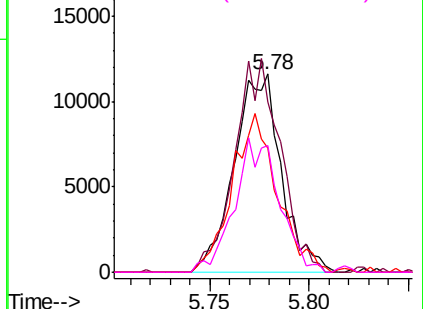
Abundance

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

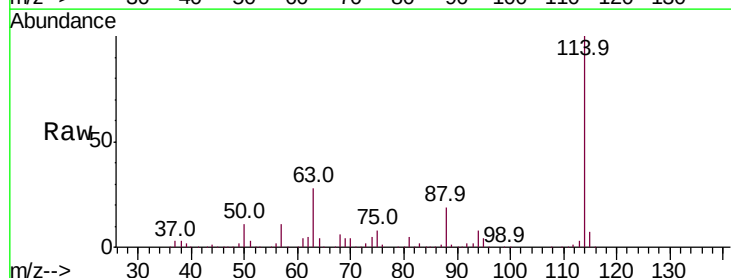
Tgt Ion:114 Resp: 1564995

Ion Ratio Lower Upper

114 100

63 26.8 20.9 31.3

88 17.8 14.3 21.5

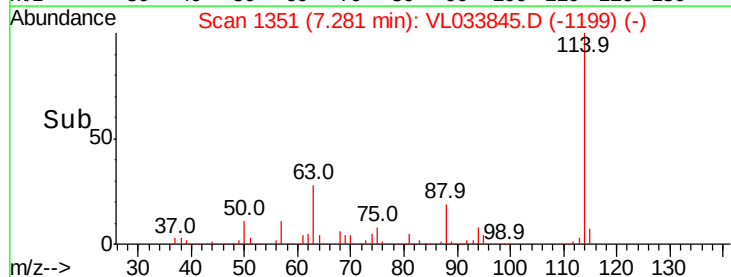
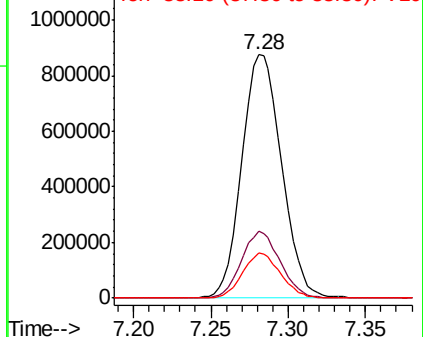


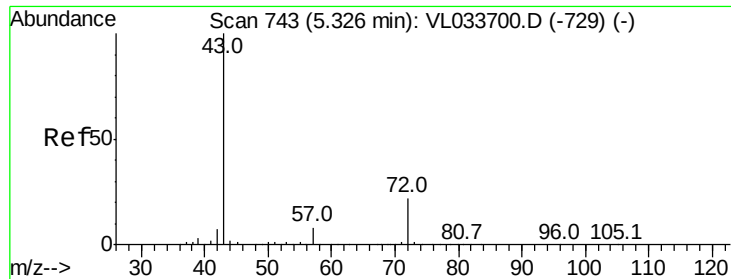
Abundance

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





#34

2-Butanone

Concen: 0.107 ppbv m

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-25-20190522-ODL

Tot Ion: 43 Resp: 10385

Ion Ratio Lower Upper

43 100

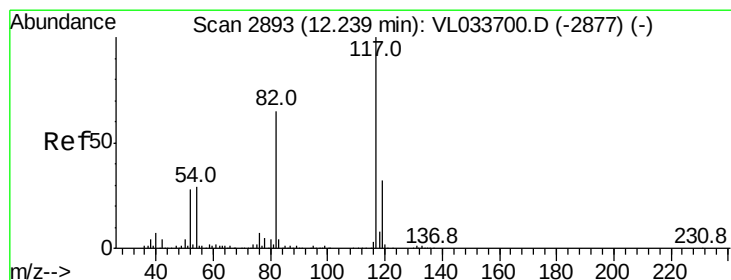
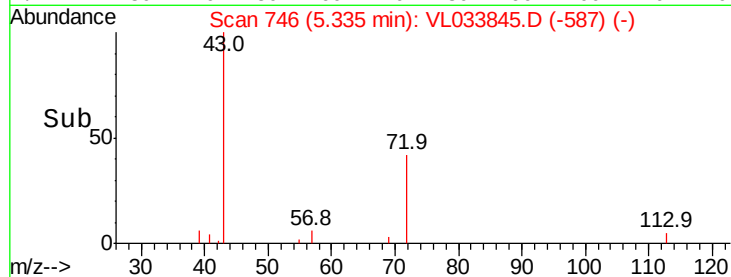
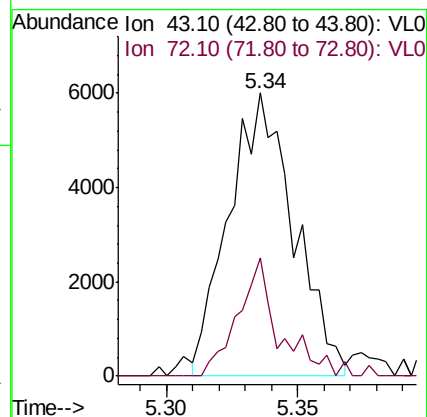
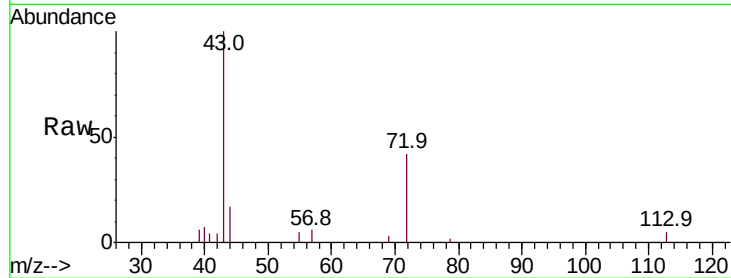
72 0.0 17.8 26.6#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

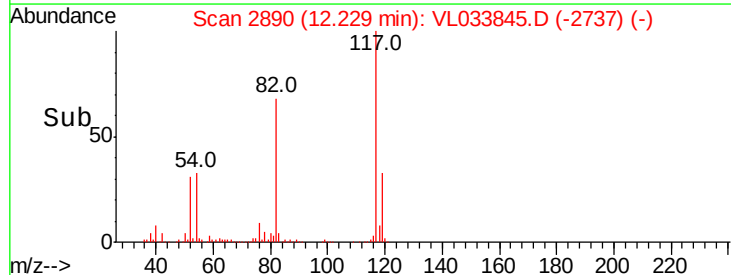
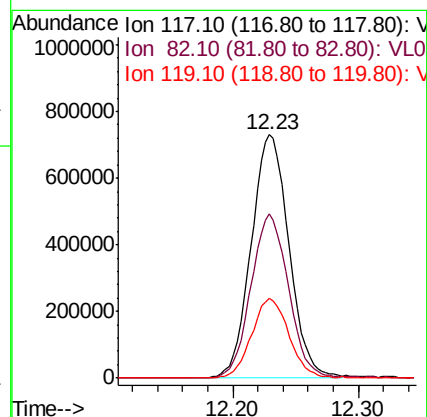
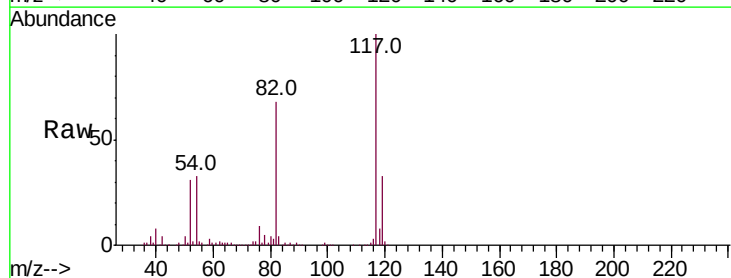
Tgt Ion: 117 Resp: 1528793

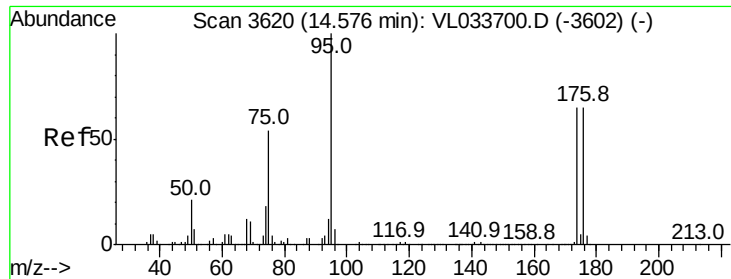
Ion Ratio Lower Upper

117 100

82 67.5 49.4 74.0

119 32.7 24.9 37.3





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.572 ppbv  
 RT: 14.57 min Scan# 3617  
 Delta R.T. -0.01 min  
 Lab File: VL033845.D  
 Acq: 29 May 2019 21:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-25-20190522-ODL

Tot Ion: 95 Resp: 1310234  
 Ion Ratio Lower Upper  
 95 100  
 174 66.8 53.9 80.9  
 175 4.7 3.8 5.8

Manual Integrations  
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