

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
 Data File : VL033858.D  
 Acq On : 30 May 2019 6:13  
 Operator : SY/AP  
 Sample : K3067-08  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-22-20190523-0

Manual Integrations  
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 5/31/2019 12:50:06 PM

Quant Time: May 30 06:55:49 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   | 5.75  | 49   | 711805   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1642687  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 1746037  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1396066  | 9.86     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.60% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.07  | 85   | 48437    | 0.323  | ppbv   | 93     |
| 3) Chlorodifluoromethane   | 3.01  | 51   | 52876m   | 0.649  | ppbv   |        |
| 4) Chloromethane           | 3.17  | 50   | 13996    | 0.300  | ppbv # | 80     |
| 9) Propene                 | 3.04  | 41   | 10939m   | 0.315  | ppbv   |        |
| 10) Heptane                | 8.24  | 43   | 13115m   | 0.134  | ppbv   |        |
| 11) Trichlorofluoromethane | 4.00  | 101  | 41345    | 0.289  | ppbv   | 93     |
| 13) Ethanol                | 3.65  | 45   | 1000428  | 89.252 | ppbv   | 99     |
| 15) Acetone                | 3.89  | 43   | 698883   | 7.077  | ppbv   | 99     |
| 17) tert-Butyl alcohol     | 4.37  | 59   | 20755m   | 0.260  | ppbv   |        |
| 19) Isopropyl Alcohol      | 4.02  | 45   | 417208   | 6.552  | ppbv # | 96     |
| 20) Methylene Chloride     | 4.40  | 84   | 11706    | 0.308  | ppbv # | 79     |
| 26) Hexane                 | 5.77  | 57   | 112977   | 1.515  | ppbv # | 74     |
| 27) Carbon Disulfide       | 4.61  | 76   | 23685m   | 0.231  | ppbv   |        |
| 29) Chloroform             | 5.84  | 83   | 164254   | 1.196  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane  | 6.61  | 97   | 84731m   | 0.618  | ppbv   |        |
| 34) 2-Butanone             | 5.33  | 43   | 174262   | 1.711  | ppbv   | 97     |
| 35) Carbon Tetrachloride   | 7.13  | 117  | 20439m   | 0.155  | ppbv   |        |
| 36) Benzene                | 7.00  | 78   | 54790m   | 0.367  | ppbv   |        |
| 38) Trichloroethene        | 7.95  | 130  | 37673    | 0.679  | ppbv   | 96     |
| 52) Tetrachloroethene      | 11.37 | 164  | 1347112  | 25.646 | ppbv   | 98     |
| 53) Toluene                | 9.94  | 91   | 506345   | 3.142  | ppbv   | 97     |
| 58) Ethyl Benzene          | 12.86 | 91   | 37869m   | 0.164  | ppbv   |        |
| 59) m/p-Xylene             | 13.11 | 91   | 163094m  | 0.807  | ppbv   |        |
| 60) o-Xylene               | 13.84 | 91   | 68439    | 0.336  | ppbv   | 97     |
| 73) 1,3,5-Trimethylbenzene | 16.15 | 105  | 15119    | 0.067  | ppbv   | 95     |
| 74) 1,2,4-Trimethylbenzene | 16.92 | 105  | 79089m   | 0.320  | ppbv   |        |

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

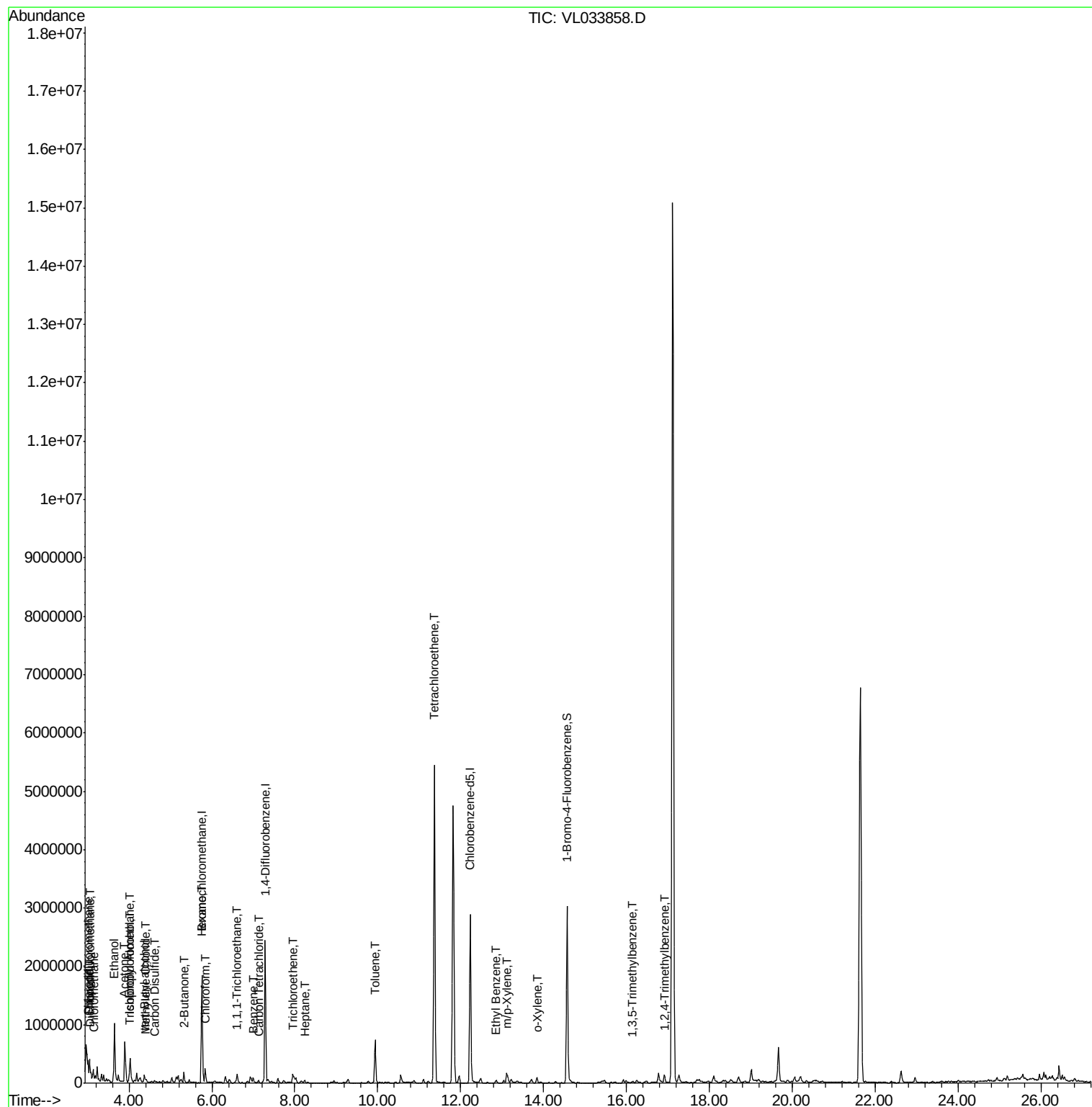
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
Data File : VL033858.D  
Acq On : 30 May 2019 6:13  
Operator : SY/AP  
Sample : K3067-08  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

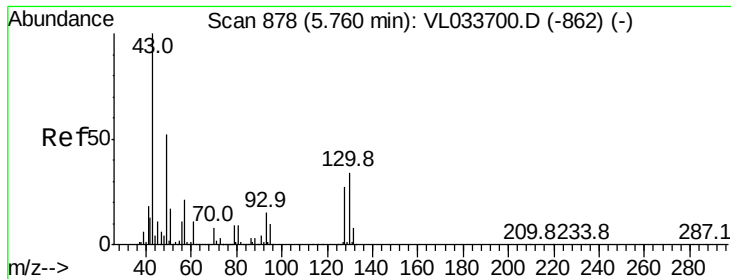
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-22-20190523-0

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Quant Time: May 30 06:55:49 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: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

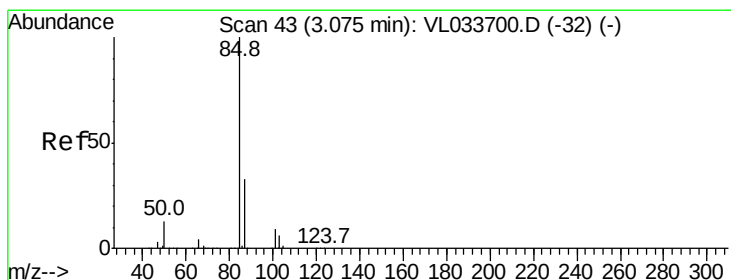
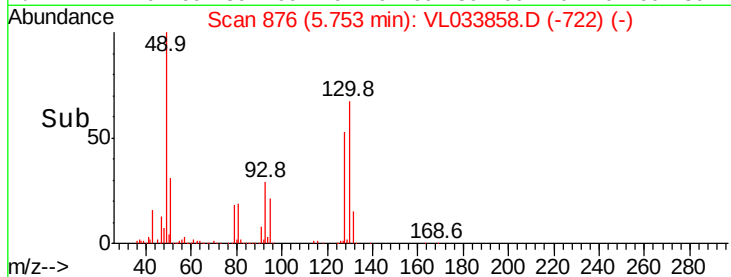
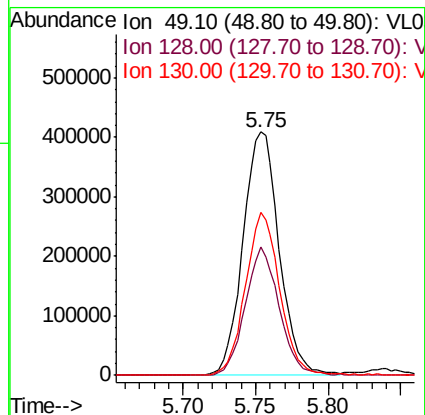
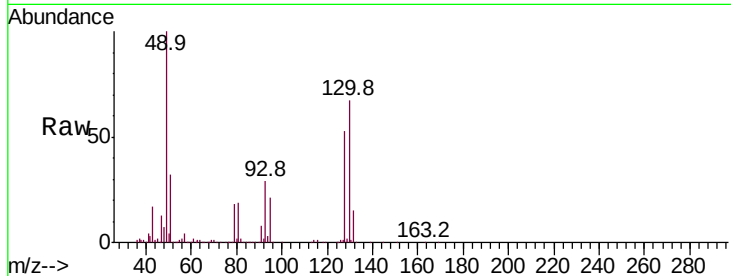
ClientSampleId :

SG-22-20190523-0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 49.7  | 25.2  | 75.6  |
| 130     | 63.9  | 32.5  | 97.5  |

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#2

Dichlorodifluoromethane

Concen: 0.323 ppbv

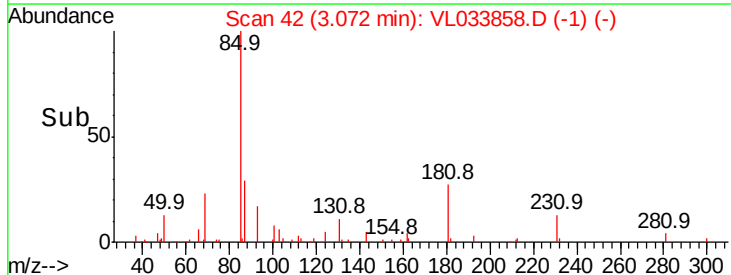
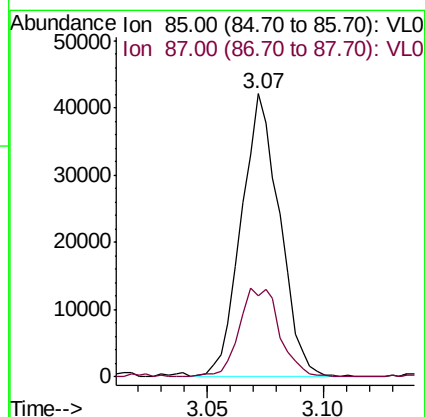
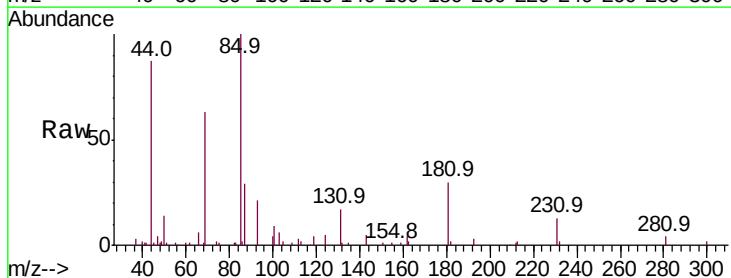
RT: 3.07 min Scan# 42

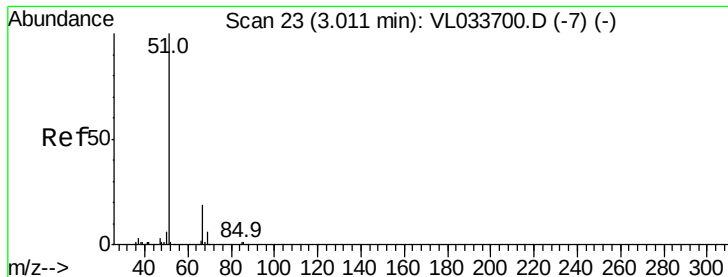
Delta R.T. -0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 28.8  | 26.3  | 39.5  |





#3

Chlorodifluoromethane

Concen: 0.649 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 51 Resp: 52876

Ion Ratio Lower Upper

51 100

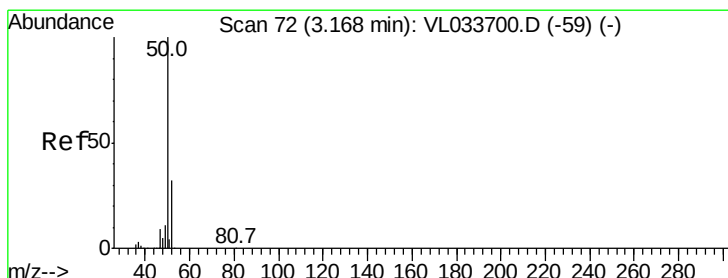
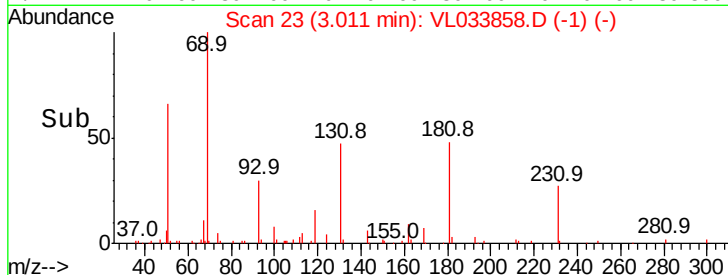
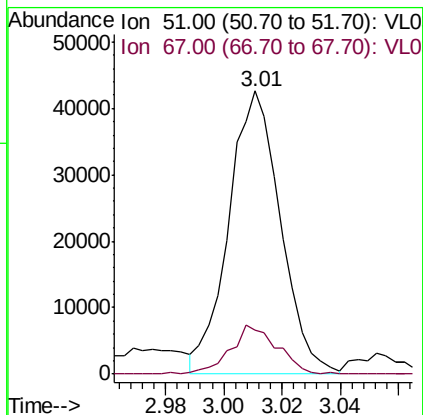
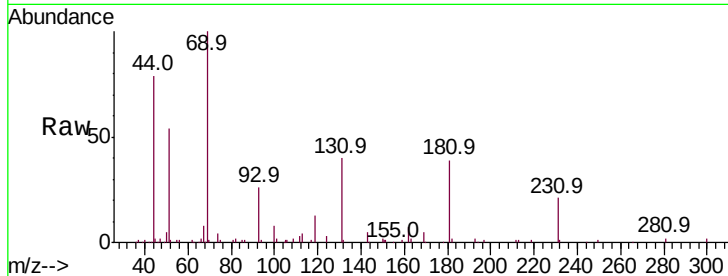
67 15.8 15.6 23.4

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#4

Chloromethane

Concen: 0.300 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033858.D

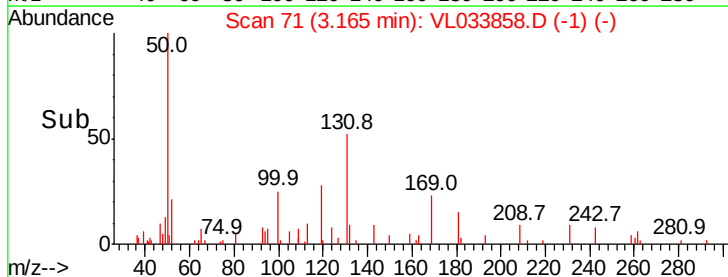
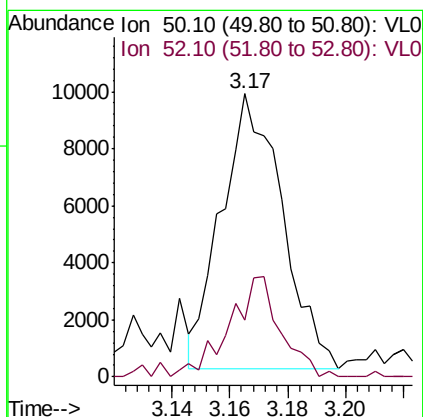
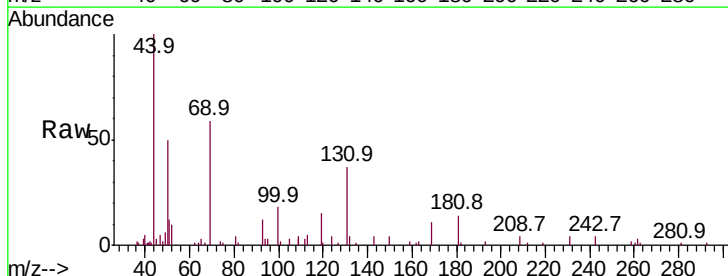
Acq: 30 May 2019 6:13

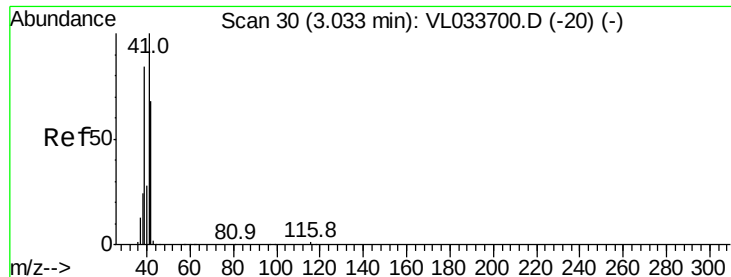
Tgt Ion: 50 Resp: 13996

Ion Ratio Lower Upper

50 100

52 20.8 25.7 38.5#





#9

Propene

Concen: 0.315 ppbv m

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 41 Resp: 10939

Ion Ratio Lower Upper

41 100

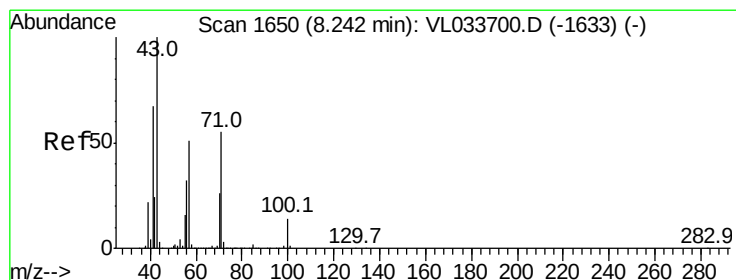
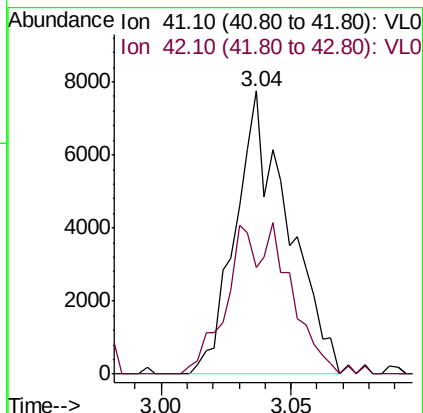
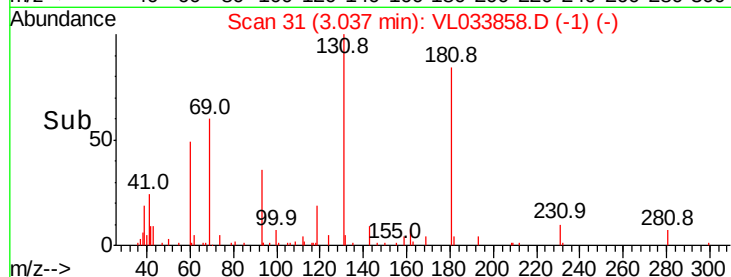
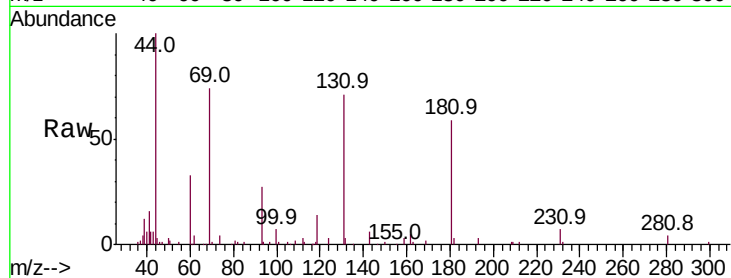
42 0.0 56.1 84.1#

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#10

Heptane

Concen: 0.134 ppbv m

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033858.D

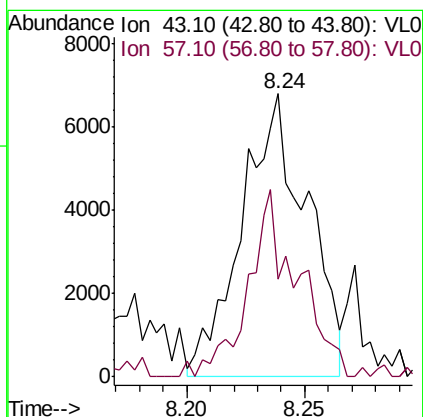
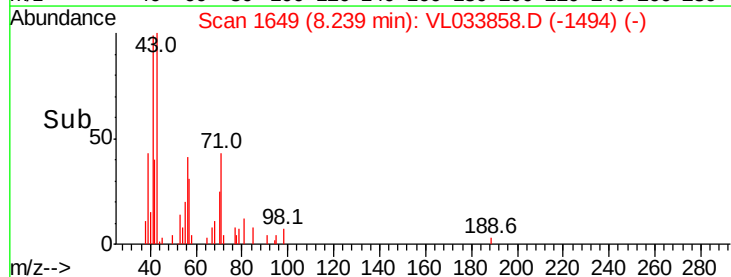
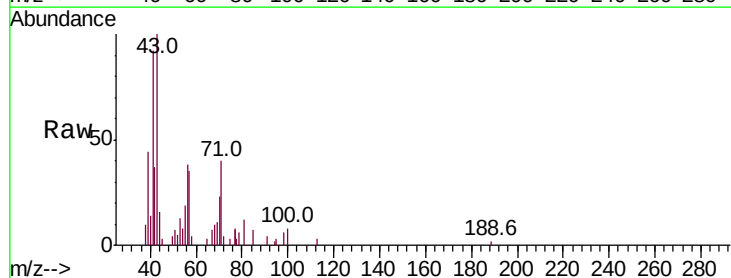
Acq: 30 May 2019 6:13

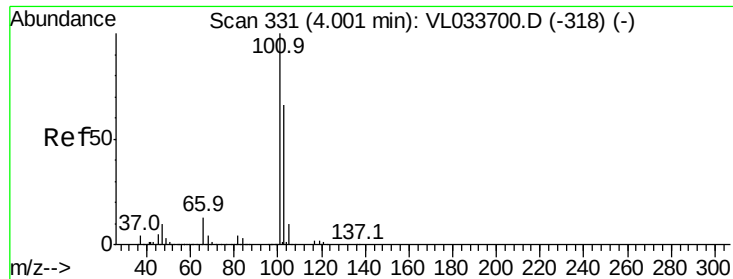
Tgt Ion: 43 Resp: 13115

Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0





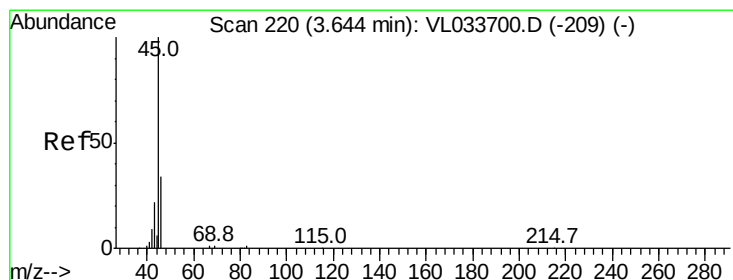
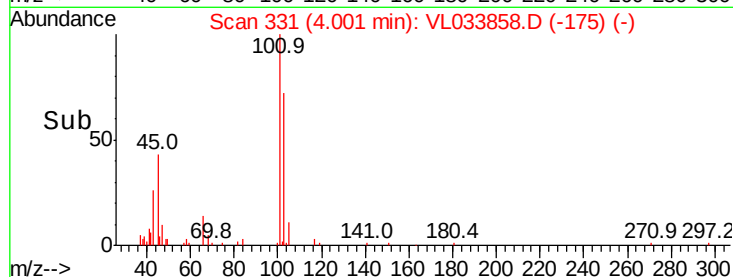
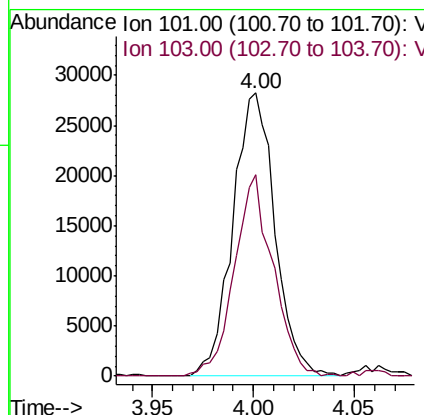
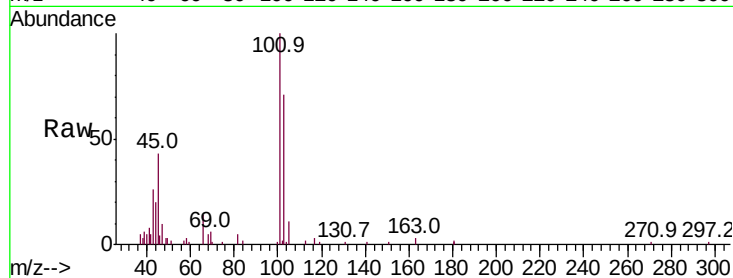
#11  
 Trichlorofluoromethane  
 Concen: 0.289 ppbv  
 RT: 4.00 min Scan# 331  
 Delta R.T. 0.00 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-22-20190523-0

Tot Ion:101 Resp: 41345  
 Ion Ratio Lower Upper  
 101 100  
 103 71.2 52.6 78.8

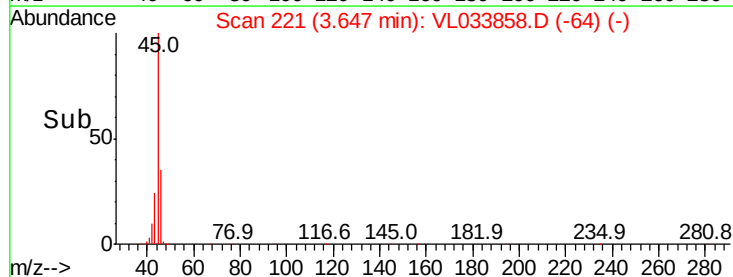
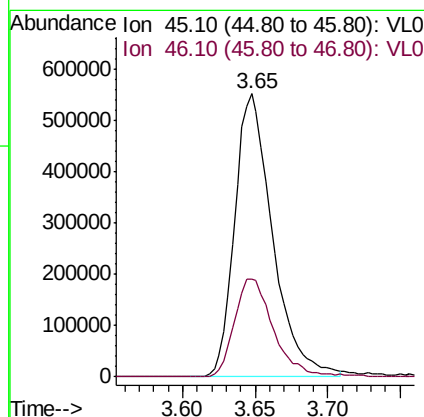
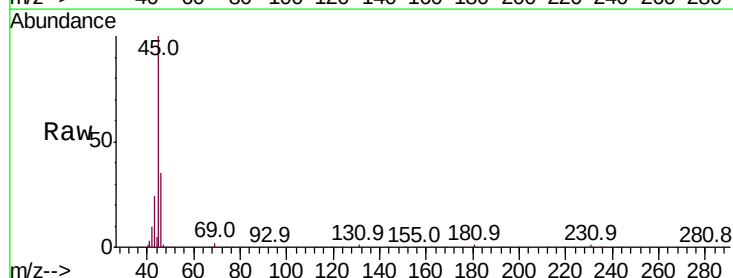
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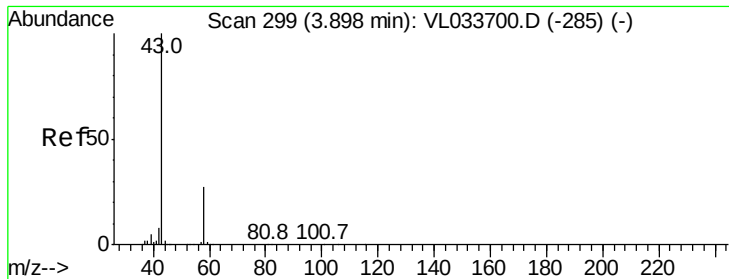
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#13  
 Ethanol  
 Concen: 89.252 ppbv  
 RT: 3.65 min Scan# 221  
 Delta R.T. 0.00 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

Tgt Ion: 45 Resp: 1000428  
 Ion Ratio Lower Upper  
 45 100  
 46 36.6 14.8 59.0





#15

Acetone

Concen: 7.077 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 43 Resp: 698883

Ion Ratio Lower Upper

43 100

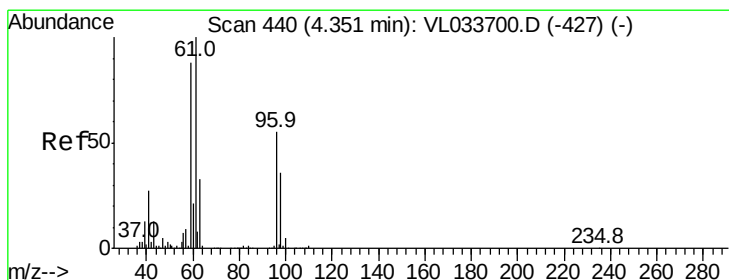
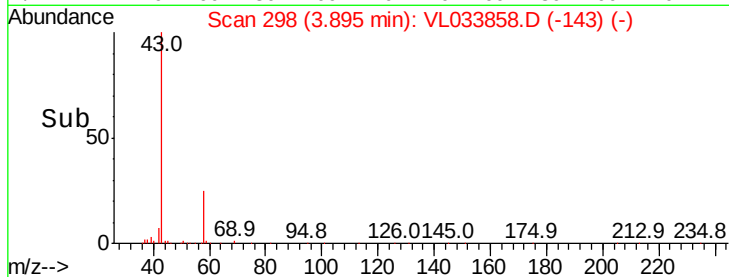
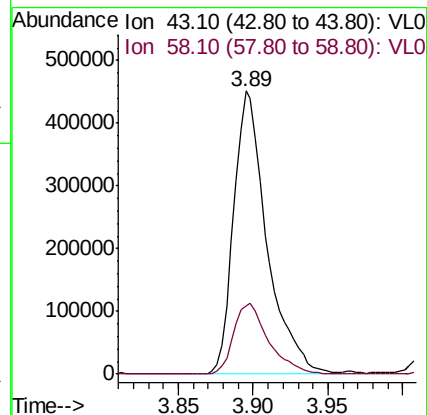
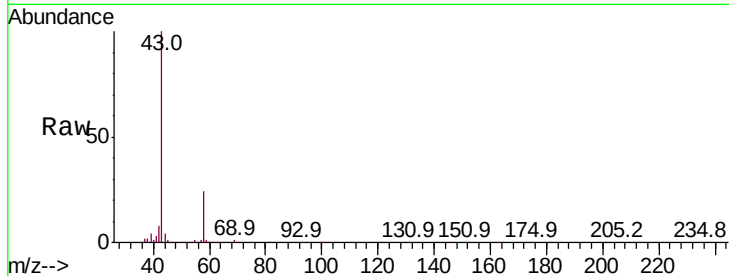
58 26.3 21.3 31.9

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#17

tert-Butyl alcohol

Concen: 0.260 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.02 min

Lab File: VL033858.D

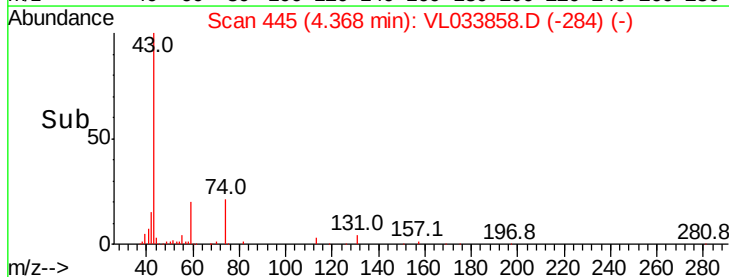
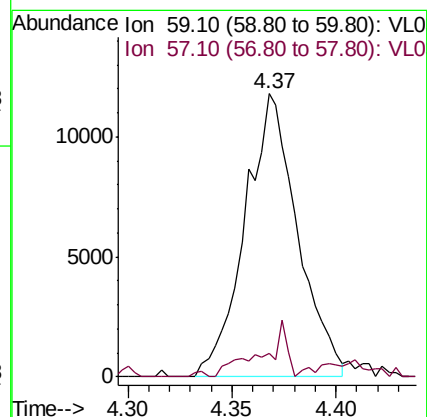
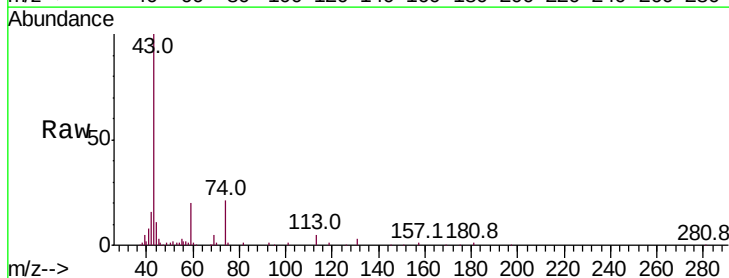
Acq: 30 May 2019 6:13

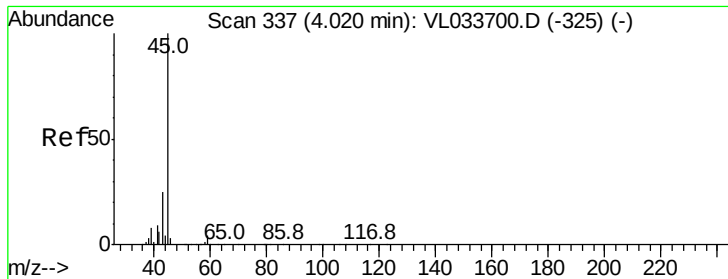
Tgt Ion: 59 Resp: 20755

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#19

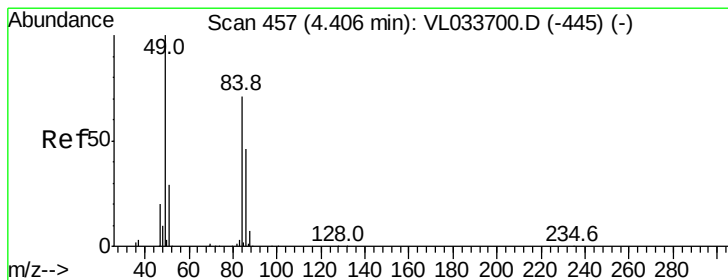
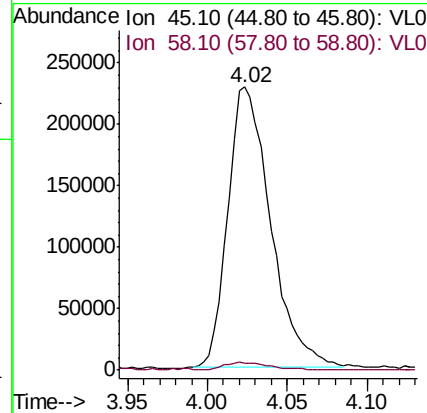
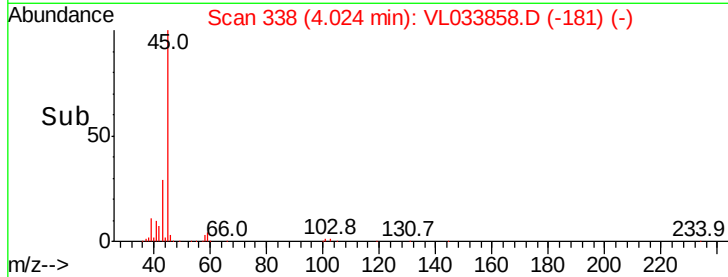
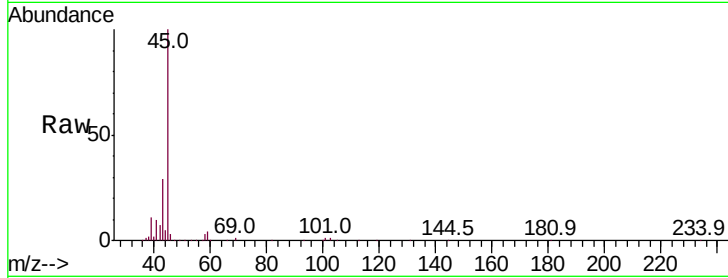
Isopropyl Alcohol  
 Concen: 6.552 ppbv  
 RT: 4.02 min Scan# 338  
 Delta R.T. 0.00 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-22-20190523-0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 3.4   | 1.6   | 2.4#  |

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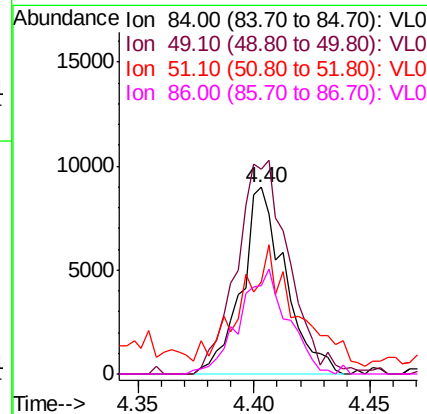
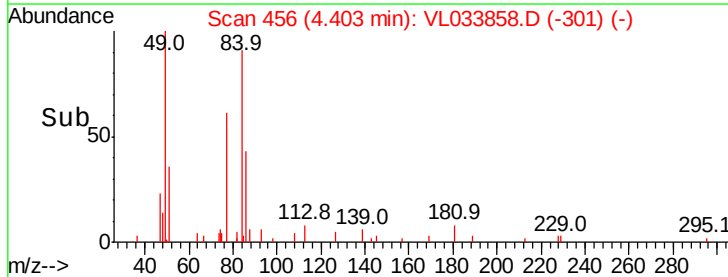
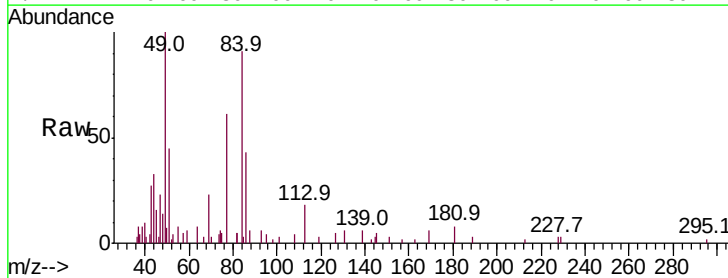
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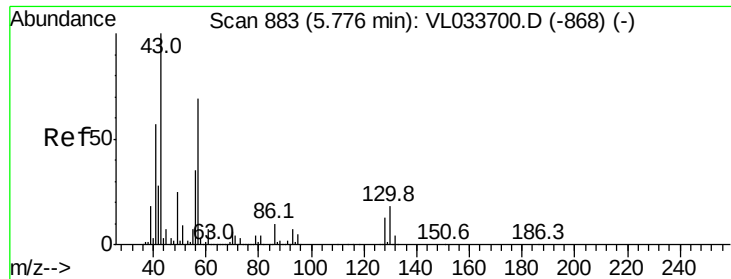
#20

Methylene Chloride  
 Concen: 0.308 ppbv  
 RT: 4.40 min Scan# 456  
 Delta R.T. -0.00 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 110.0 | 112.8 | 169.2# |
| 51      | 42.6  | 33.4  | 50.0   |
| 86      | 45.5  | 51.7  | 77.5#  |







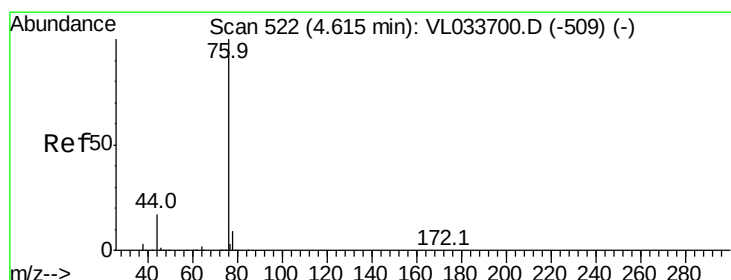
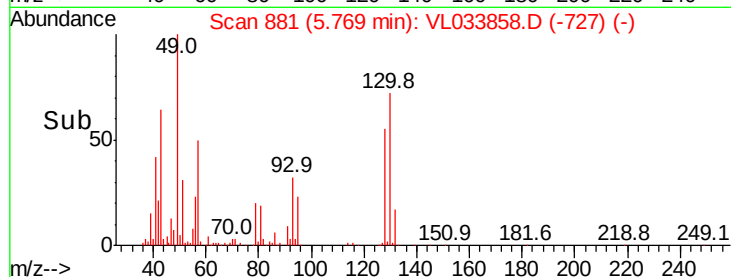
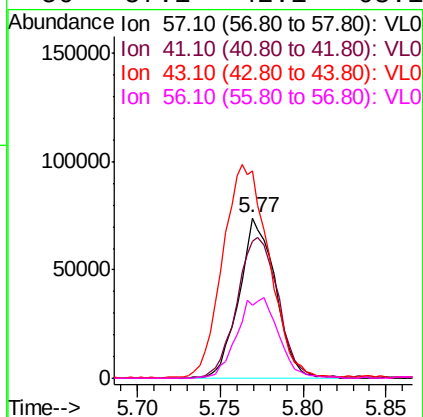
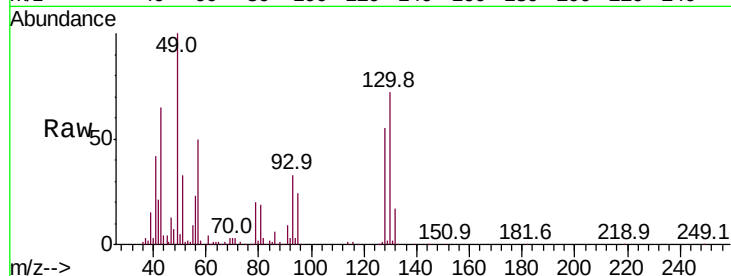
#26  
Hexane  
Concen: 1.515 ppbv  
RT: 5.77 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-22-20190523-0

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 100.1 | 69.8  | 104.6  |
| 43      | 168.3 | 181.8 | 272.6# |
| 56      | 57.1  | 42.1  | 63.1   |

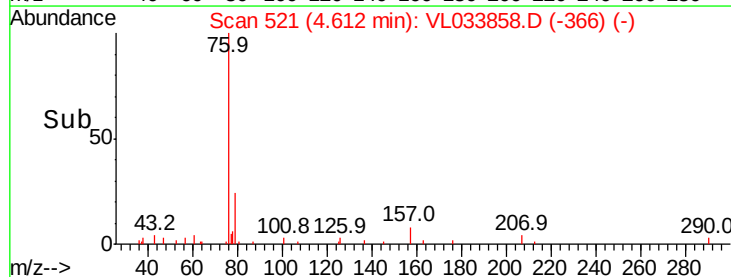
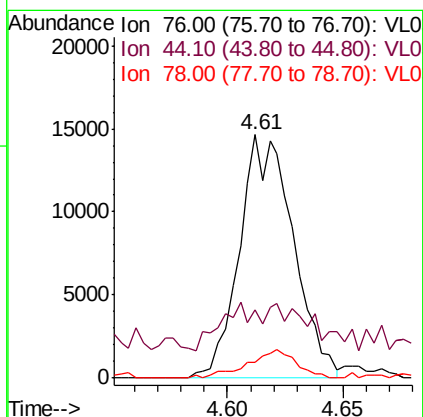
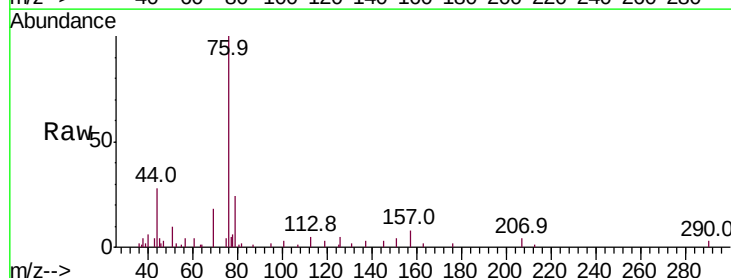
Manual Integrations  
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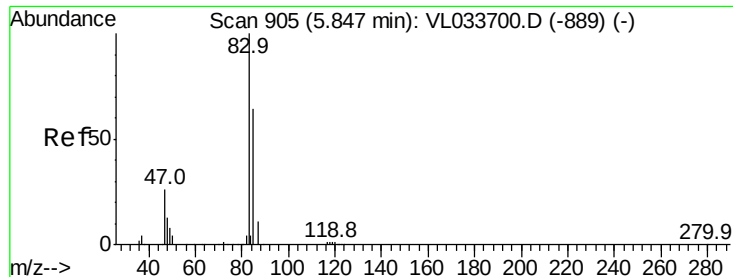
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#27  
Carbon Disulfide  
Concen: 0.231 ppbv m  
RT: 4.61 min Scan# 521  
Delta R.T. -0.00 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 40.0  | 13.8  | 20.8# |
| 78      | 0.0   | 7.4   | 11.0# |





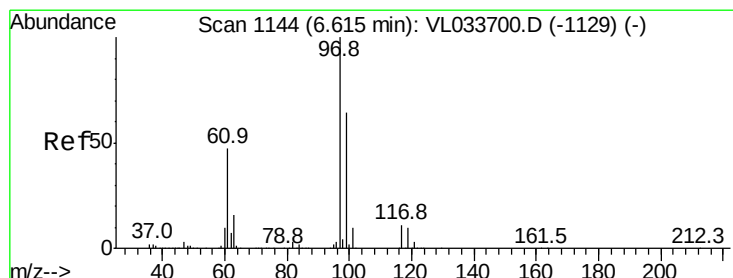
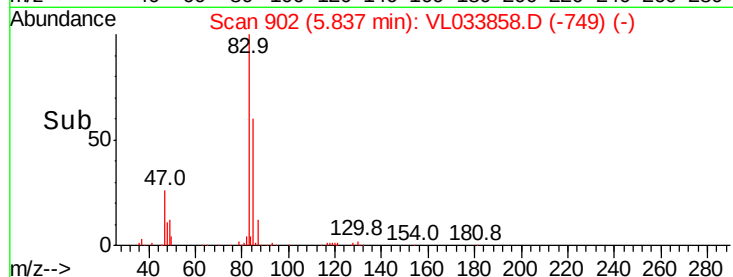
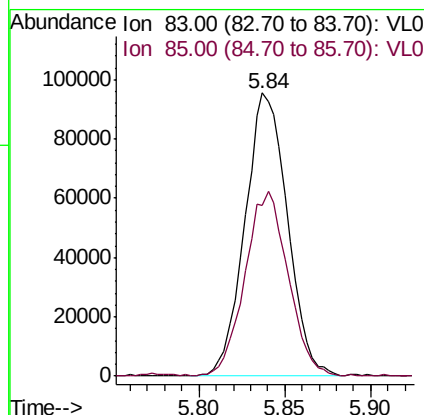
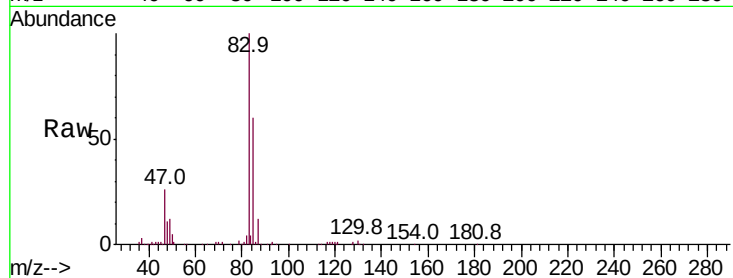
#29  
Chloroform  
Concen: 1.196 ppbv  
RT: 5.84 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-22-20190523-0

| Tot Ion   | 83   | Resp  | 164254 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 60.5 | 51.5  | 77.3   |

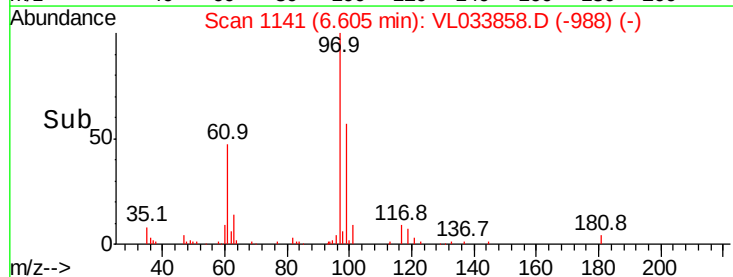
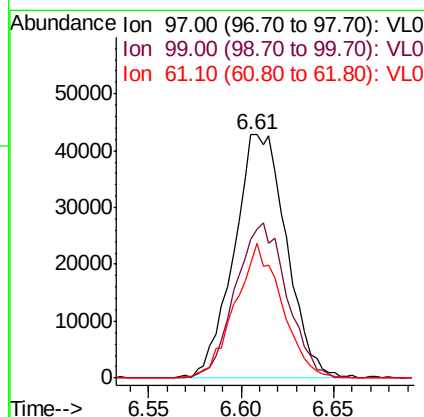
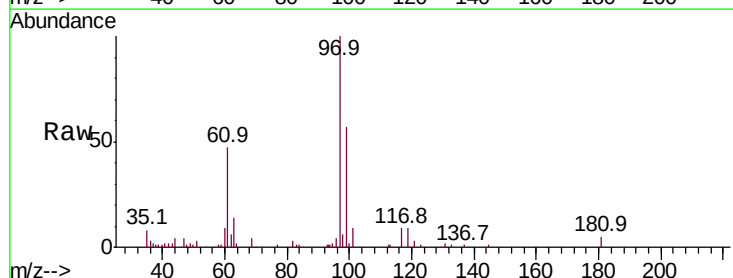
Manual Integrations  
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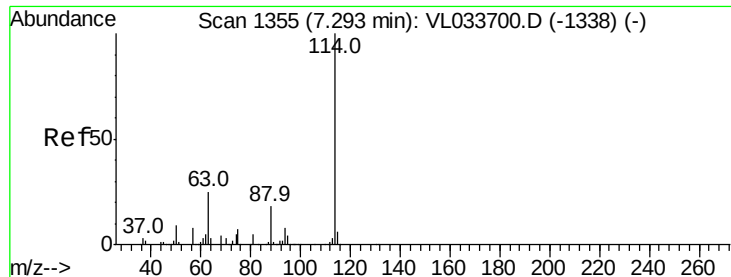
apatel  
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#32  
1,1,1-Trichloroethane  
Concen: 0.618 ppbv m  
RT: 6.61 min Scan# 1141  
Delta R.T. -0.01 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

| Tgt Ion   | 97  | Resp  | 84731 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 97        | 100 |       |       |
| 99        | 0.0 | 51.5  | 77.3# |
| 61        | 0.0 | 37.8  | 56.8# |





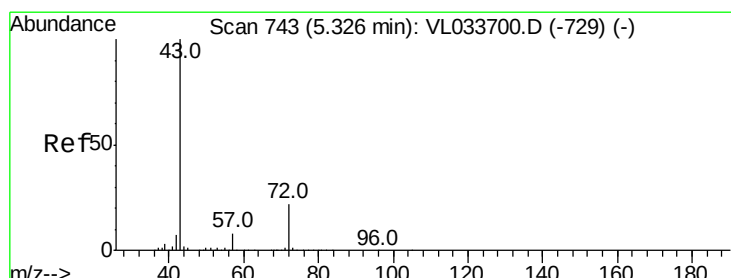
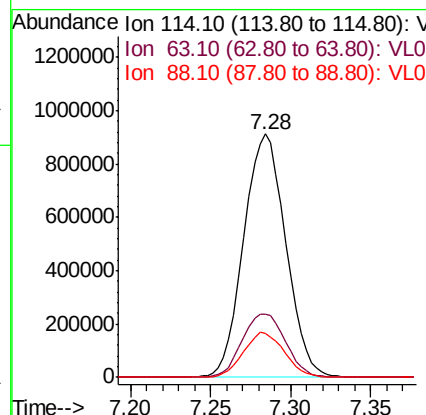
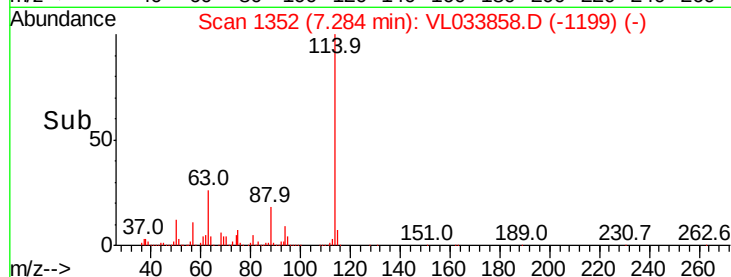
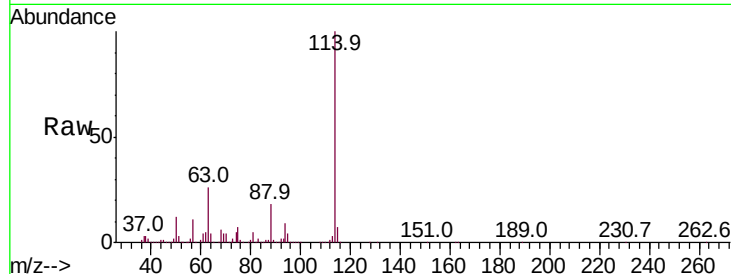
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.28 min Scan# 1352  
 Delta R.T. -0.01 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-22-20190523-0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 26.9  | 20.9  | 31.3  |
| 88      | 18.2  | 14.3  | 21.5  |

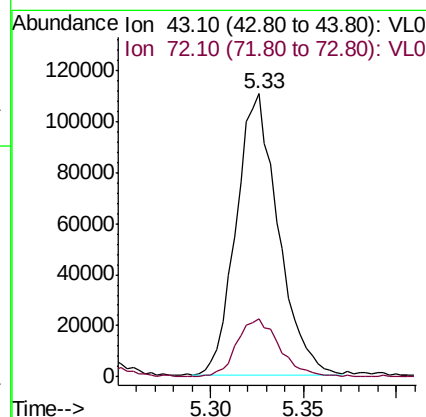
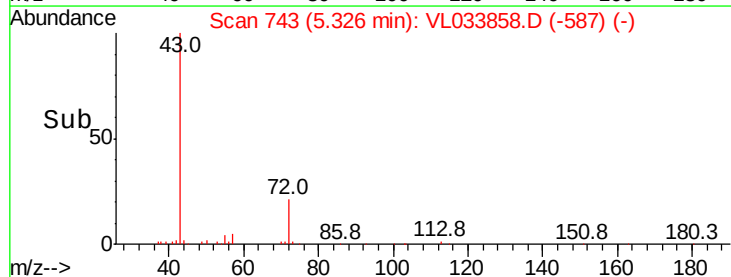
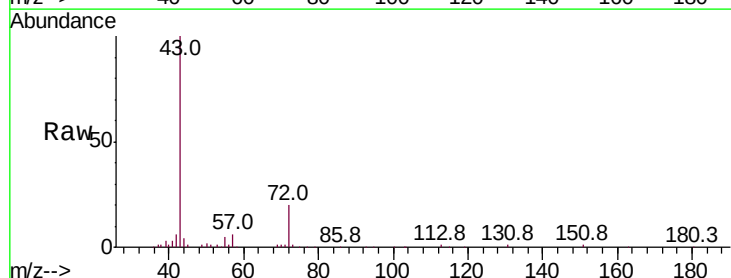
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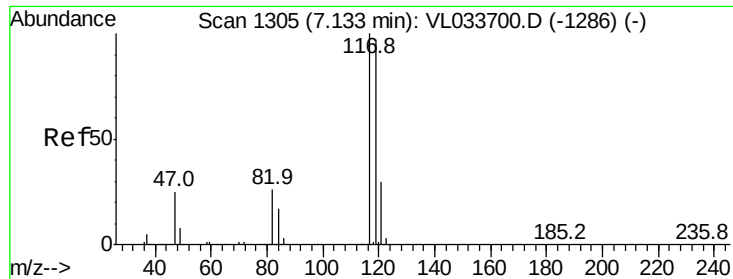
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#34  
 2-Butanone  
 Concen: 1.711 ppbv  
 RT: 5.33 min Scan# 743  
 Delta R.T. 0.00 min  
 Lab File: VL033858.D  
 Acq: 30 May 2019 6:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.9  | 17.8  | 26.6  |





#35

Carbon Tetrachloride

Concen: 0.155 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

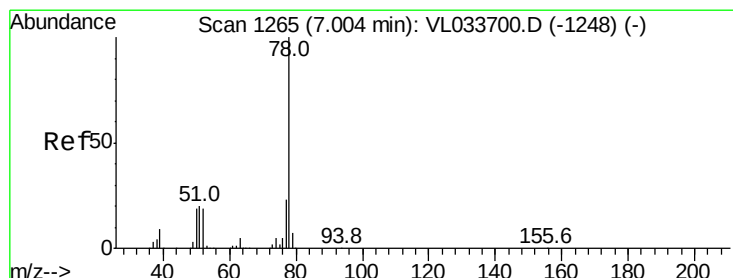
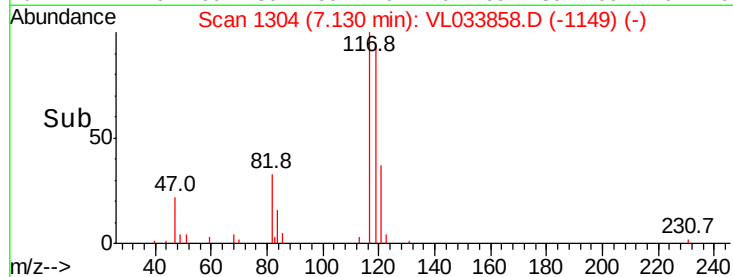
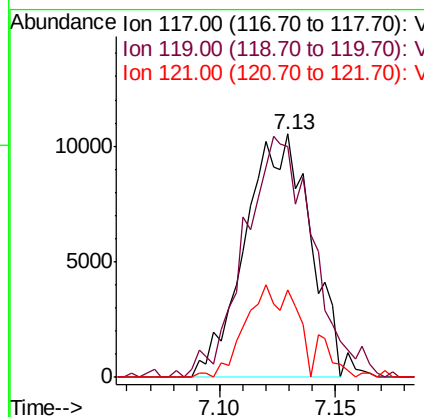
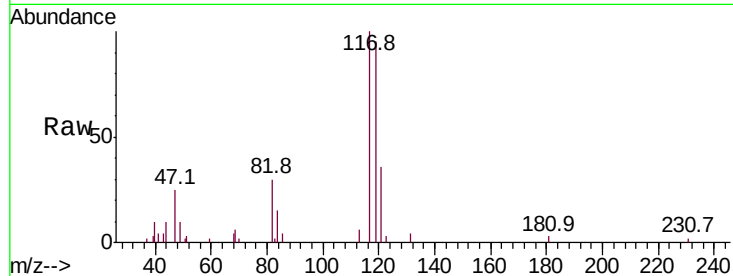
ClientSampleId :

SG-22-20190523-0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 117   | Resp: | 20439 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 95.0  | 77.2  | 115.8 |
| 121       | 36.0  | 24.1  | 36.1  |

Manual Integrations  
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#36

Benzene

Concen: 0.367 ppbv m

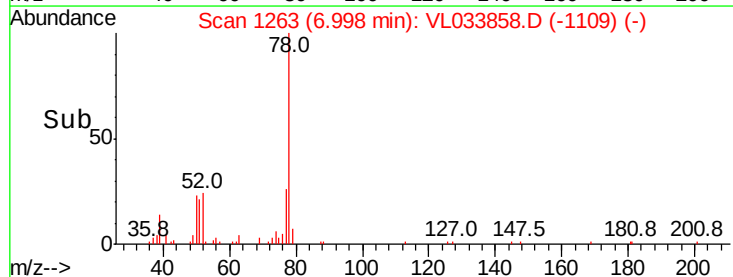
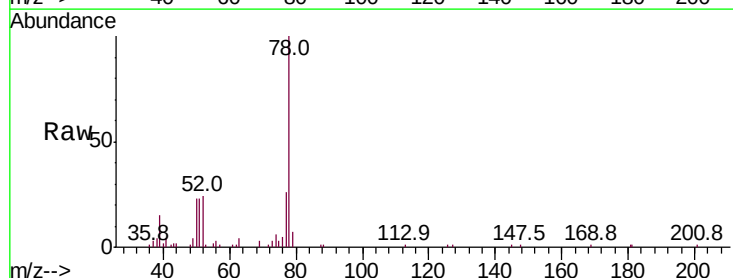
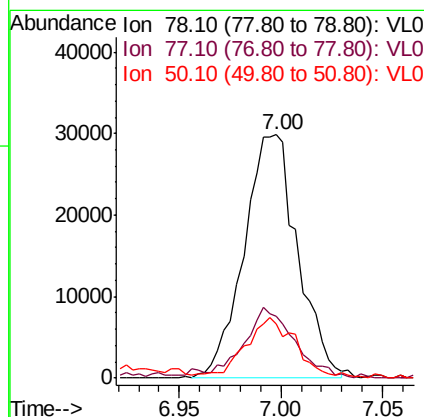
RT: 7.00 min Scan# 1263

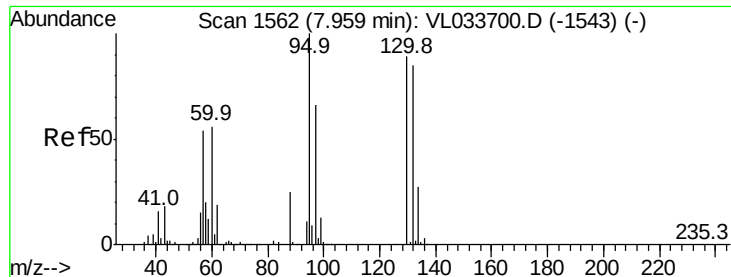
Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 78    | Resp: | 54790 |
| Ion Ratio | Lower | Upper |       |
| 78        | 100   |       |       |
| 77        | 25.6  | 18.4  | 27.6  |
| 50        | 22.5  | 15.5  | 23.3  |





#38

Trichloroethene

Concen: 0.679 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion:130 Resp: 37673

Ion Ratio Lower Upper

130 100

95 110.8 90.2 135.4

132 102.1 76.4 114.6

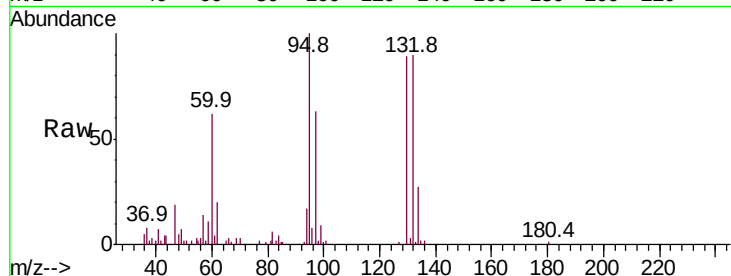
97 70.8 59.8 89.6

Manual Integrations

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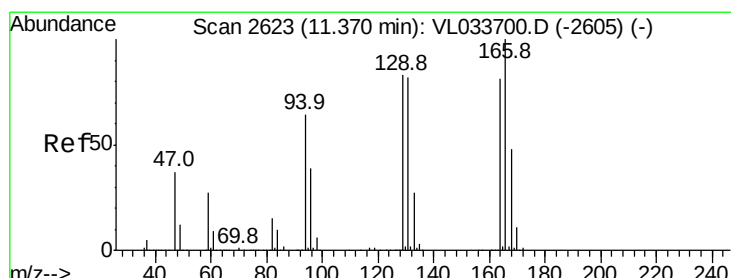
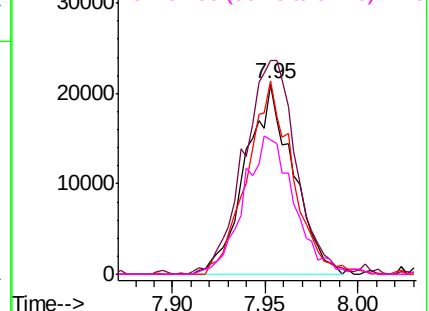
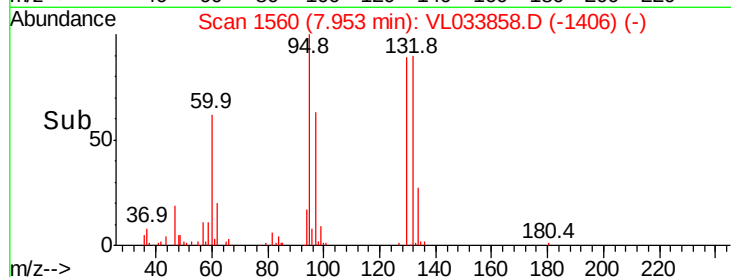


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 25.646 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Tgt Ion:164 Resp: 1347112

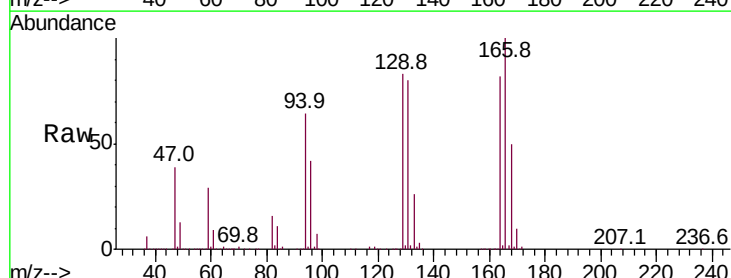
Ion Ratio Lower Upper

164 100

166 122.0 98.9 148.3

129 101.5 81.8 122.6

131 97.2 81.1 121.7

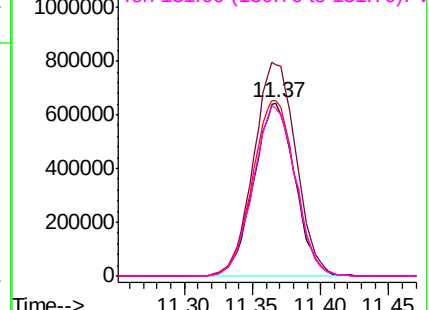
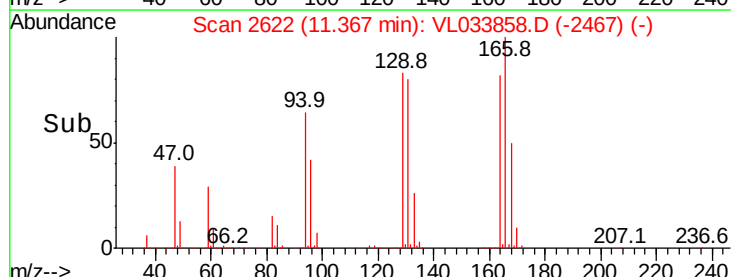


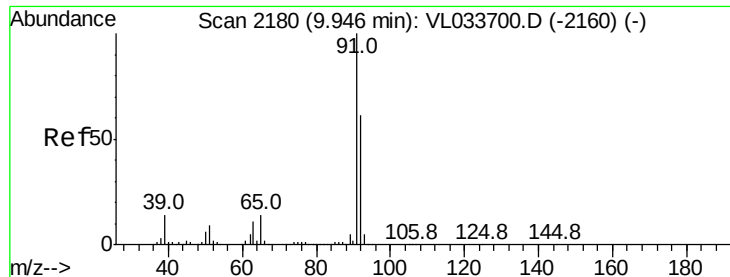
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 3.142 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 91 Resp: 506345

Ion Ratio Lower Upper

91 100

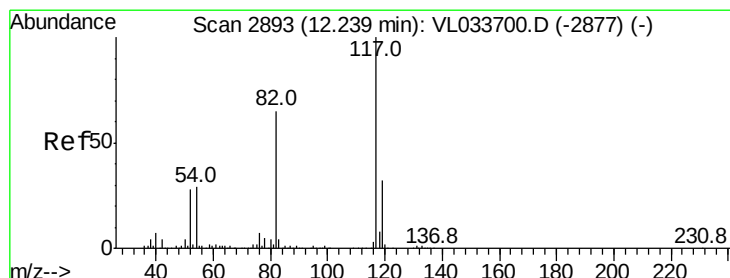
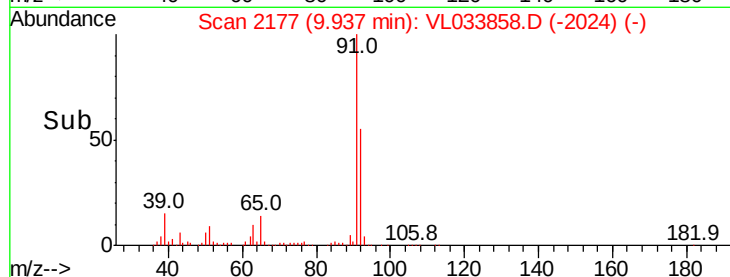
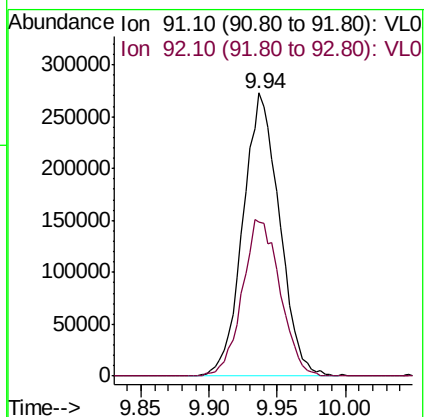
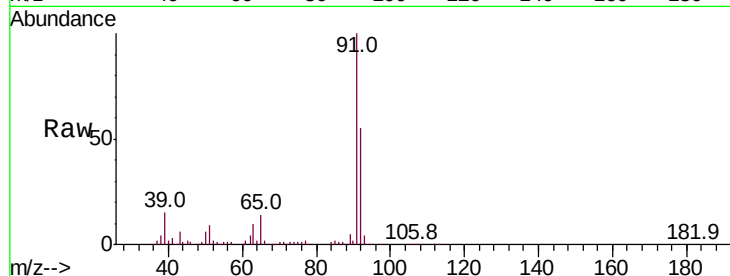
92 57.4 47.6 71.4

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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: VL033858.D

Acq: 30 May 2019 6:13

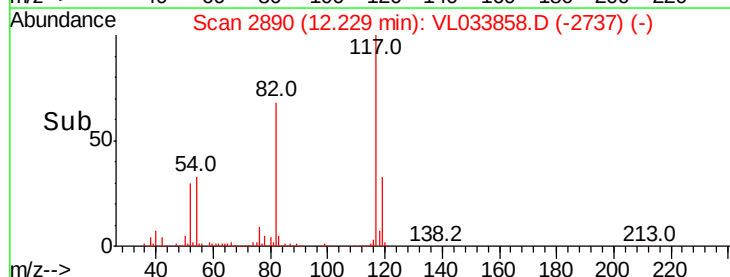
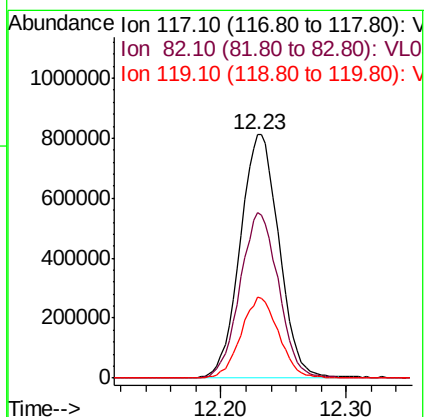
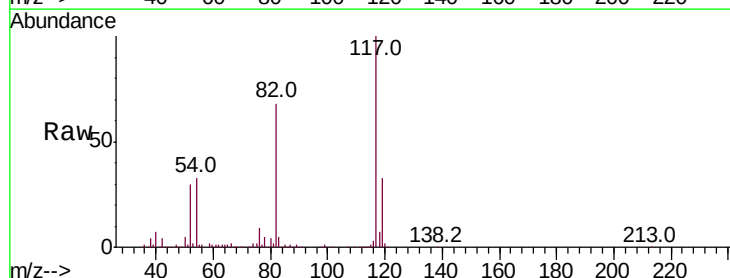
Tgt Ion: 117 Resp: 1746037

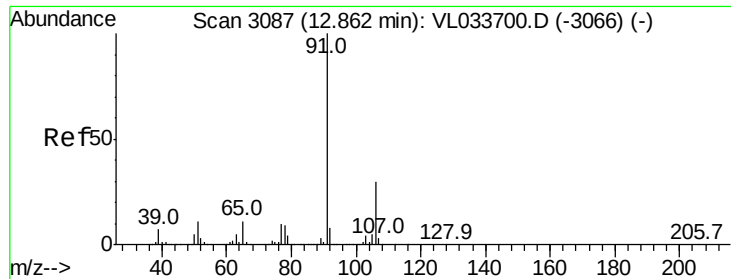
Ion Ratio Lower Upper

117 100

82 68.0 49.4 74.0

119 32.3 24.9 37.3





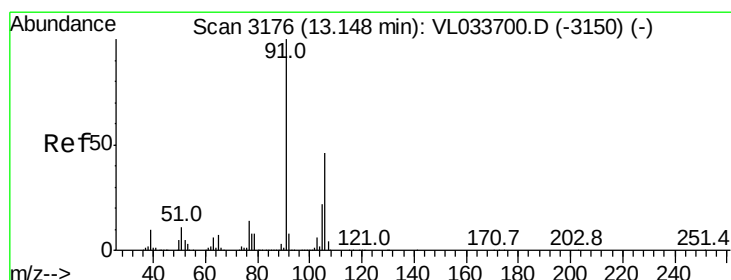
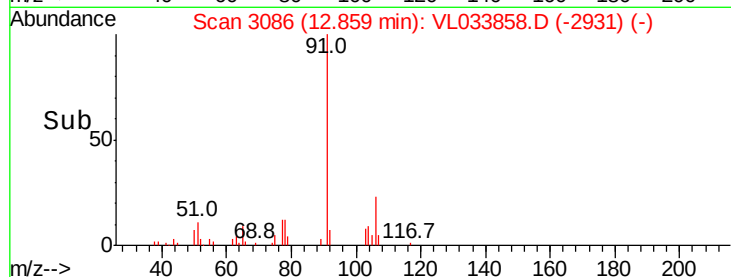
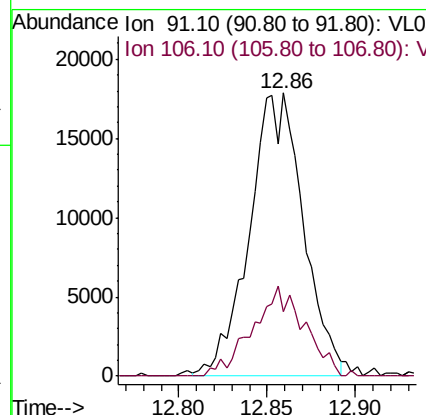
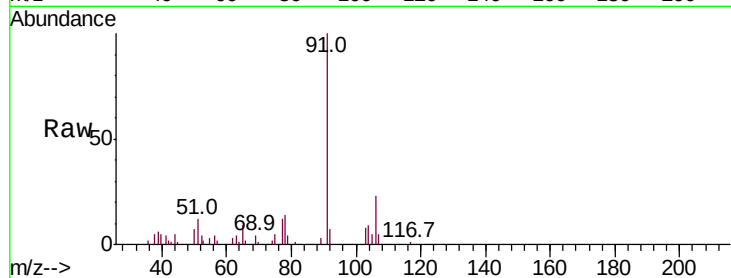
#58  
Ethyl Benzene  
Concen: 0.164 ppbv m  
RT: 12.86 min Scan# 3086  
Delta R.T. -0.00 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-22-20190523-0

Tot Ion: 91 Resp: 37869  
Ion Ratio Lower Upper  
91 100  
106 23.0 23.9 35.9#

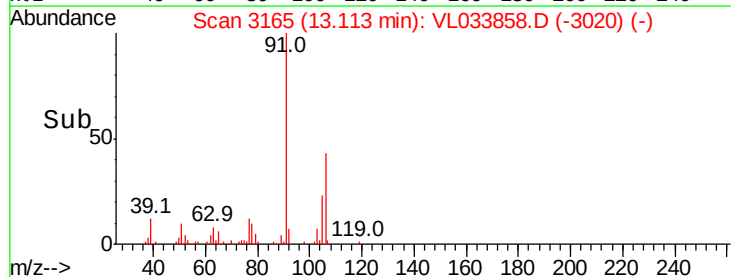
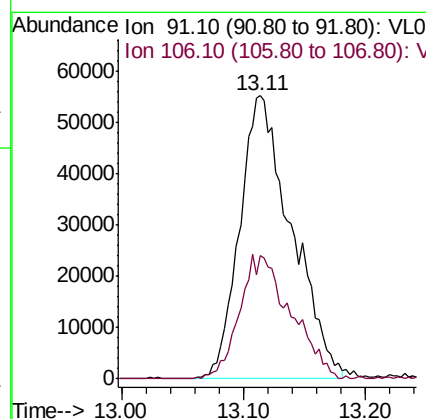
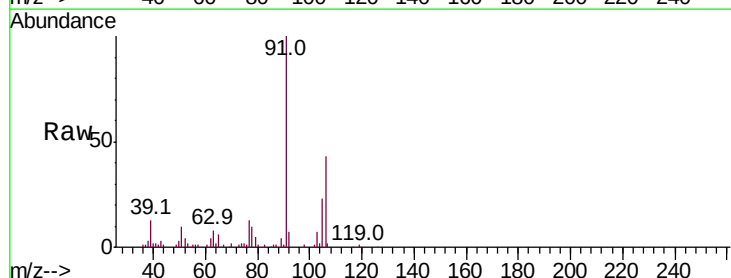
Manual Integrations  
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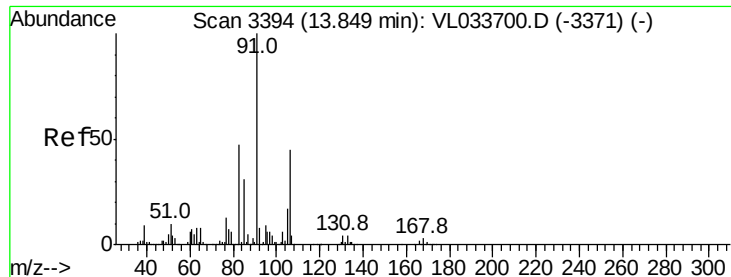
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#59  
m/p-Xylene  
Concen: 0.807 ppbv m  
RT: 13.11 min Scan# 3165  
Delta R.T. -0.04 min  
Lab File: VL033858.D  
Acq: 30 May 2019 6:13

Tgt Ion: 91 Resp: 163094  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.8 53.6#





#60

o-Xylene

Concen: 0.336 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion: 91 Resp: 68439

Ion Ratio Lower Upper

91 100

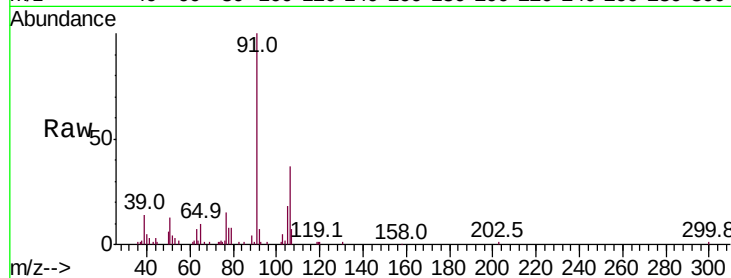
106 41.0 21.6 64.8

Manual Integrations

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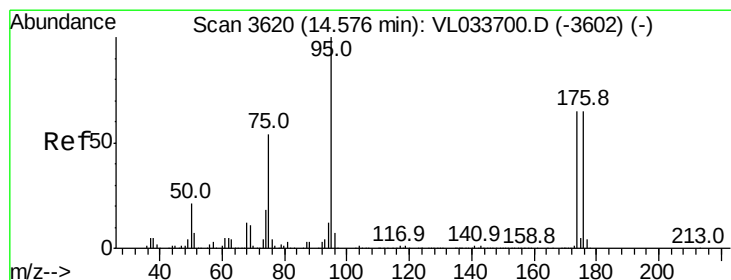
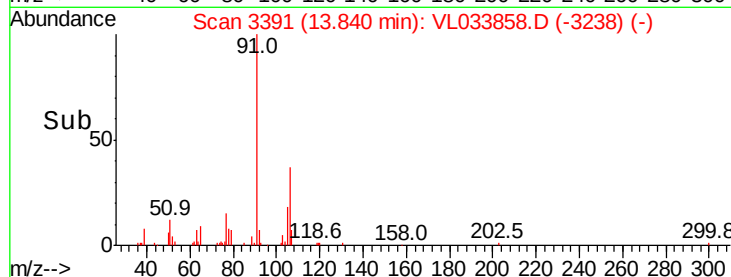
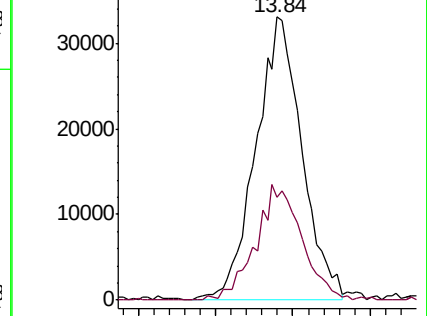
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.863 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

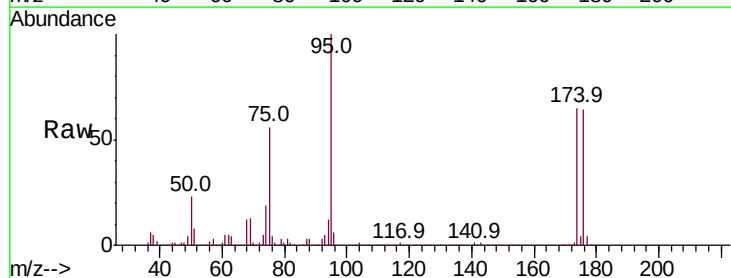
Tgt Ion: 95 Resp: 1396066

Ion Ratio Lower Upper

95 100

174 65.9 53.9 80.9

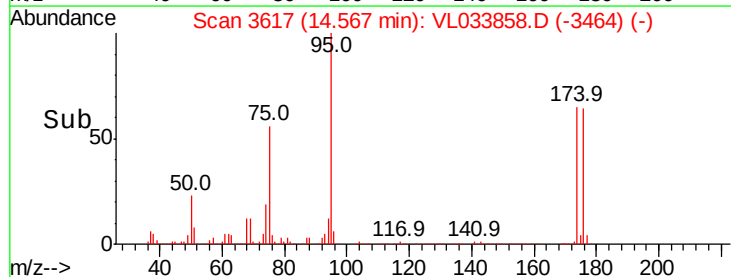
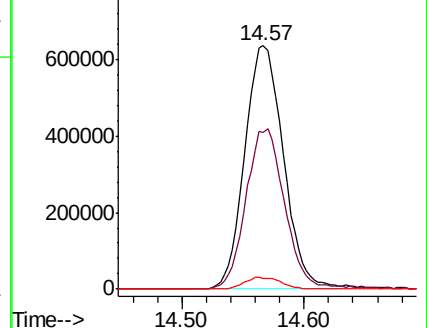
175 4.8 3.8 5.8



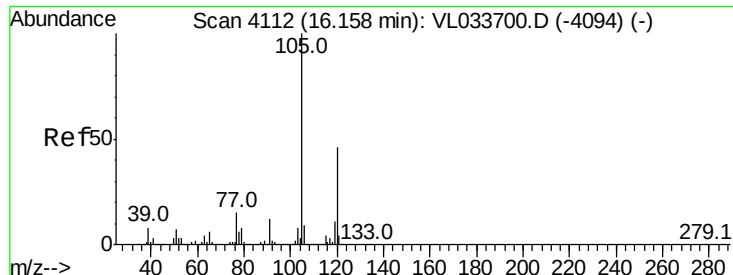
Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V







#73

1,3,5-Trimethylbenzene

Concen: 0.067 ppbv

RT: 16.15 min Scan# 4109

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Instrument :

MSVOA\_L

ClientSampleId :

SG-22-20190523-0

Tot Ion:105 Resp: 15119

Ion Ratio Lower Upper

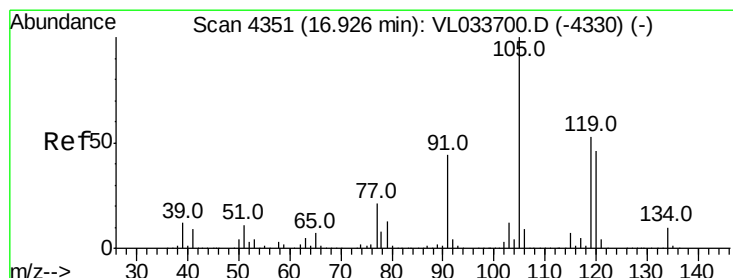
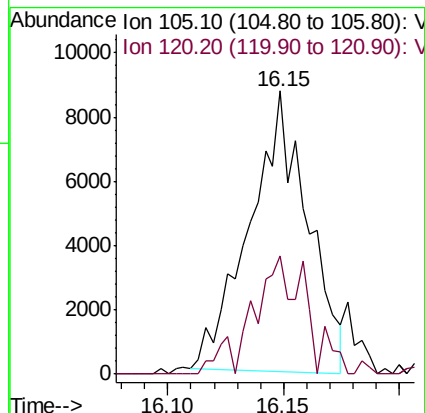
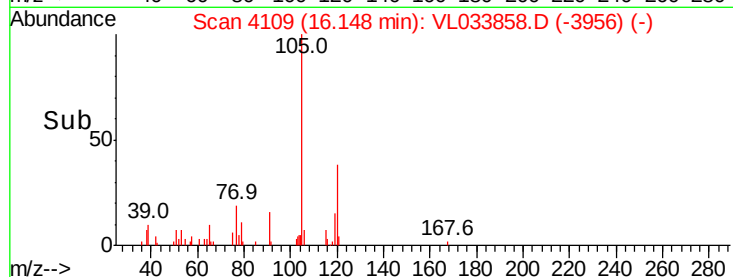
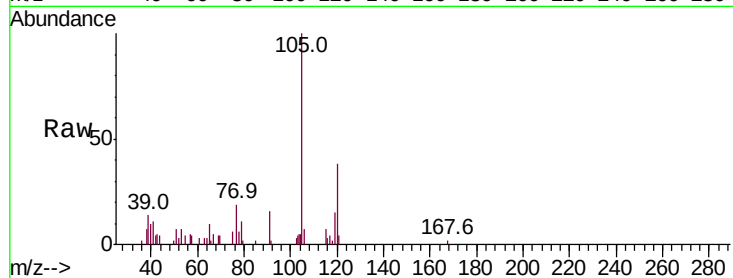
105 100

120 42.9 37.0 55.4

Manual Integrations  
APPROVED

apatel

5/31/2019 12:50:06 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.320 ppbv m

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033858.D

Acq: 30 May 2019 6:13

Tgt Ion:105 Resp: 79089

Ion Ratio Lower Upper

105 100

120 36.8 36.8 55.2

91 12.7 35.4 53.0#

77 10.6 16.8 25.2#

