

Data File : VU033964.D  
Acq On : 26 Aug 2019 22:11  
Operator : JC/SP  
Sample : K4539-03  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

Quant Time: Aug 27 08:01:41 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 27 06:58:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 416060   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 671758   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 624604   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 266257   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.28   | 65  | 299712   | 50.13 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.26% |      |
| 35) Dibromofluoromethane    | 4.86   | 113 | 225885   | 48.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.68%  |      |
| 50) Toluene-d8              | 7.55   | 98  | 875696   | 50.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.32% |      |
| 62) 4-Bromofluorobenzene    | 10.29  | 95  | 276656   | 41.52 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 83.04%  |      |

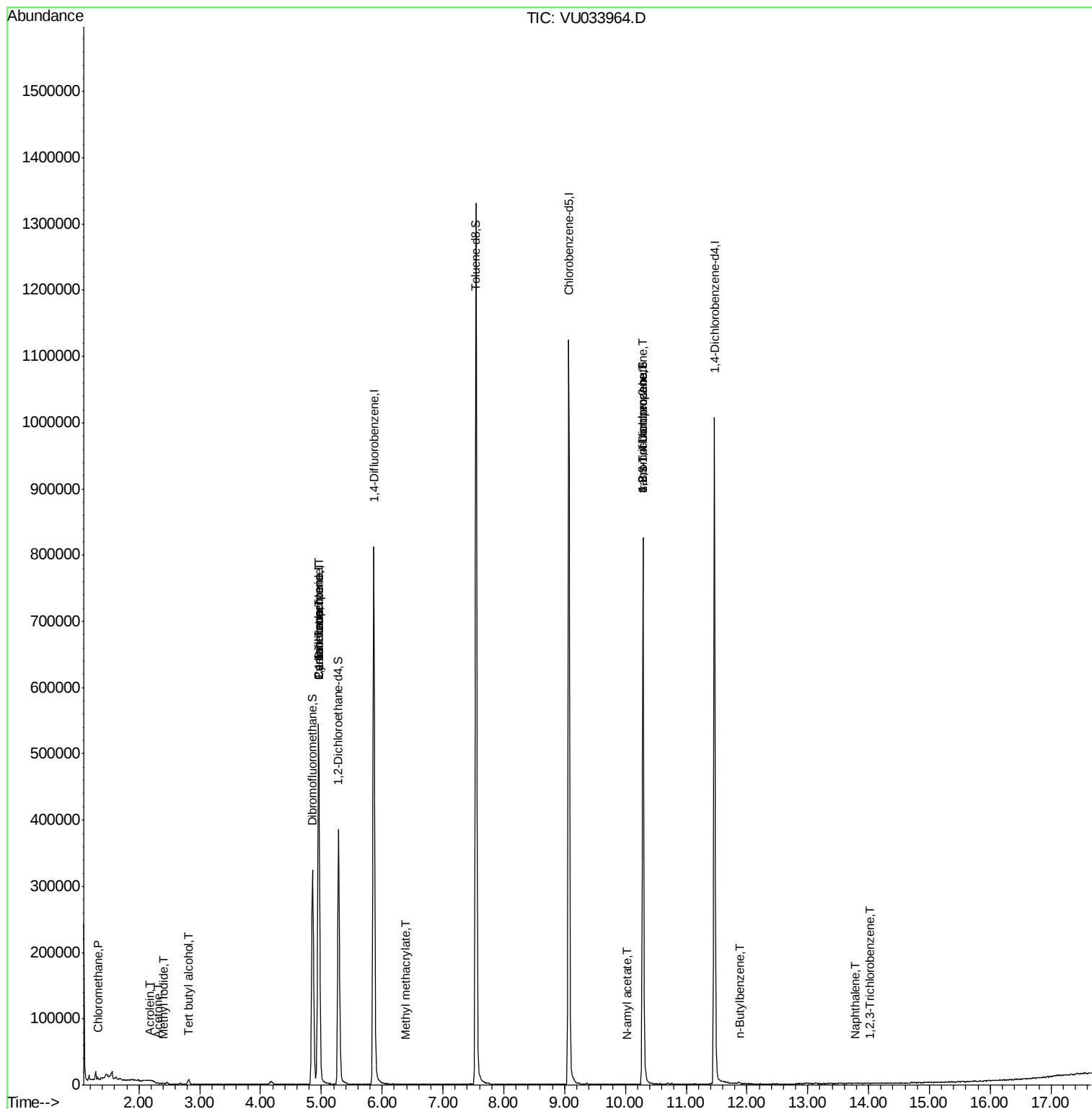
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     |        | Qvalue    |        |     |
| 3) Chloromethane               | 1.32  | 50  | 3178   | 0.529     | ug/l   | 96  |
| 5) Bromomethane                | 1.61  | 94  | 1888   | Below Cal |        | 95  |
| 10) Methyl Iodide              | 2.40  | 142 | 796    | 5.354     | ug/l # | 79  |
| 11) Tert butyl alcohol         | 2.82  | 59  | 3951   | 3.162     | ug/l # | 73  |
| 13) Acrolein                   | 2.18  | 56  | 165    | 0.222     | ug/l   | 90  |
| 16) Acetone                    | 2.31  | 43  | 884    | 0.248     | ug/l # | 77  |
| 31) Cyclohexane                | 4.96  | 56  | 8923   | 1.027     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 4.95  | 75  | 33896  | 4.887     | ug/l # | 50  |
| 38) Carbon Tetrachloride       | 4.96  | 117 | 40437  | 5.855     | ug/l # | 16  |
| 48) Methyl methacrylate        | 6.39  | 41  | 94     | 2.326     | ug/l # | 31  |
| 74) N-amyl acetate             | 10.02 | 43  | 20     | 3.592     | ug/l # | 42  |
| 76) 1,2,3-Trichloropropane     | 10.29 | 75  | 141292 | 22.938    | ug/l # | 37  |
| 81) trans-1,4-Dichloro-2-buten | 10.29 | 75  | 141292 | 61.162    | ug/l # | 100 |
| 89) n-Butylbenzene             | 11.87 | 91  | 620    | 2.709     | ug/l # | 50  |
| 95) Naphthalene                | 13.79 | 128 | 170    | 4.517     | ug/l # | 70  |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180 | 68     | 3.038     | ug/l # | 11  |

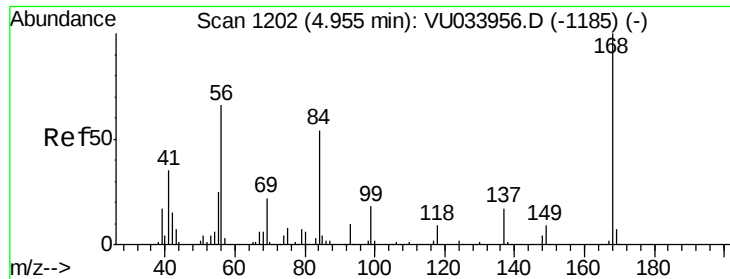
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU033964.D  
Acq On : 26 Aug 2019 22:11  
Operator : JC/SP  
Sample : K4539-03  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

Quant Time: Aug 27 08:01:41 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 27 06:58:46 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

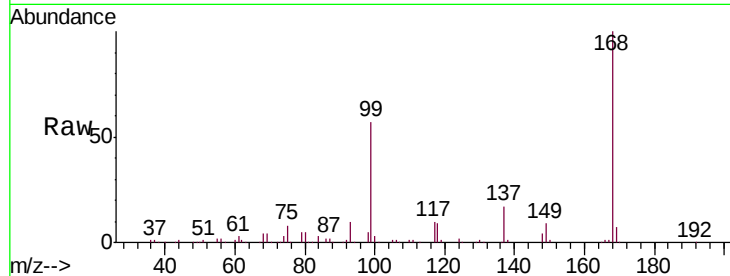
Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

Tgt Ion:168 Resp: 416060

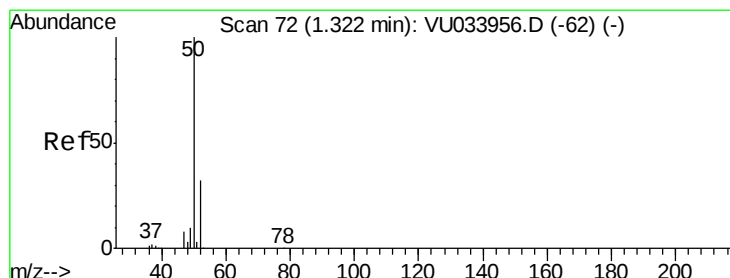
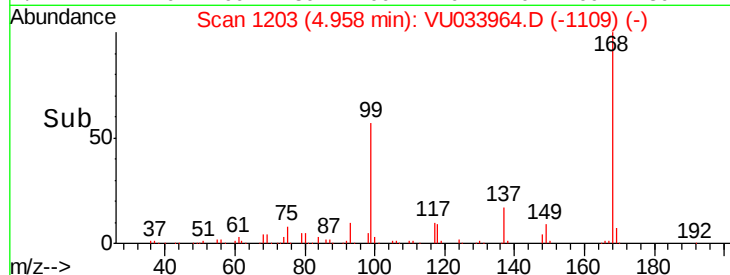
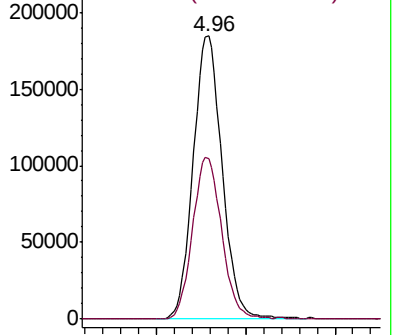
Ion Ratio Lower Upper

168 100

99 56.6 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VU033956.D (-1185) (-)



#3

Chloromethane

Concen: 0.529 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033964.D

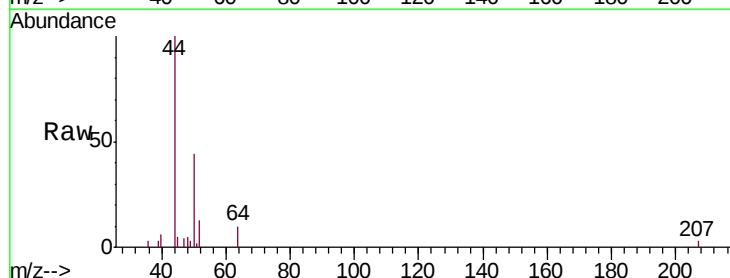
Acq: 26 Aug 2019 22:11

Tgt Ion: 50 Resp: 3178

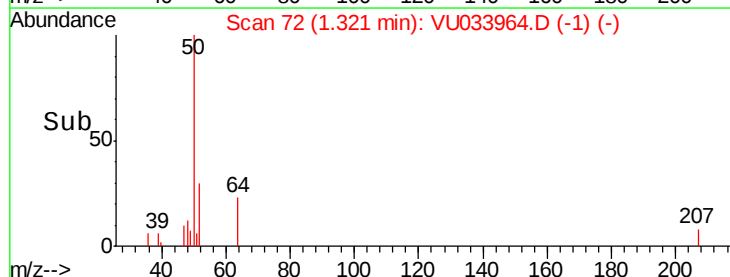
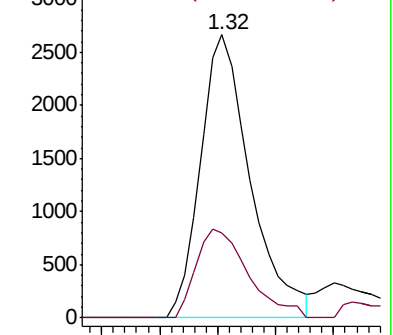
Ion Ratio Lower Upper

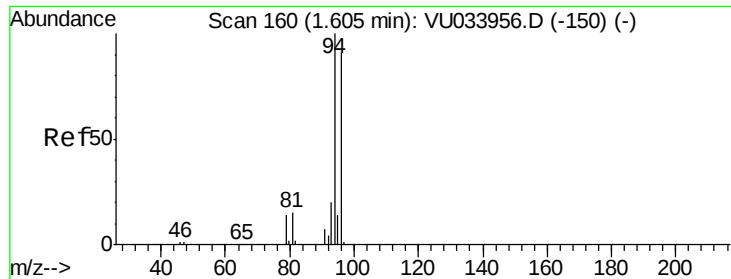
50 100

52 30.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VU033956.D (-62) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

Instrument :

MSVOA\_U

ClientSampled :

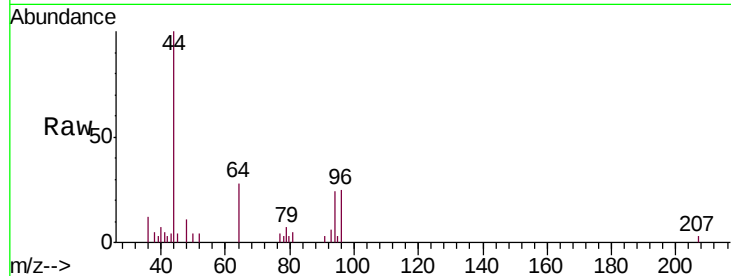
TRIP

Tgt Ion: 94 Resp: 1888

Ion Ratio Lower Upper

94 100

96 95.8 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VU033956.D (-150) (-)

Ion 95.90 (95.60 to 96.60): VU033956.D (-150) (-)

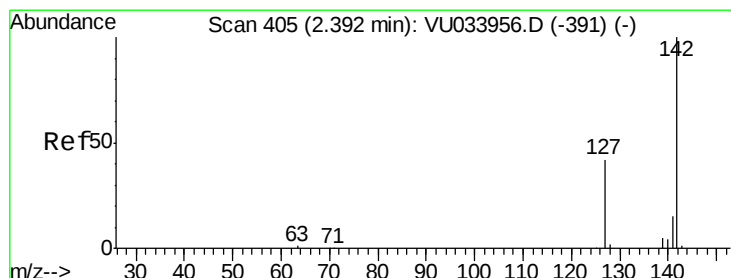
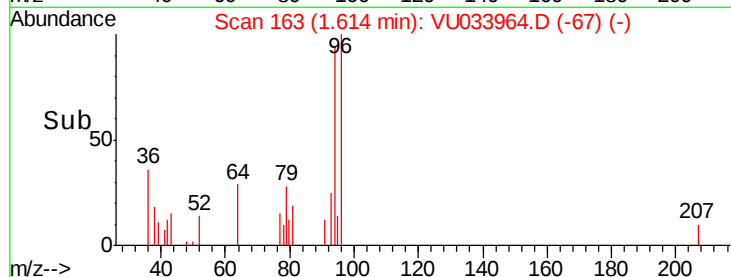
1.61

1000

500

0

Time--> 1.55 1.60 1.65



#10

Methyl Iodide

Concen: 5.354 ug/l

RT: 2.40 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

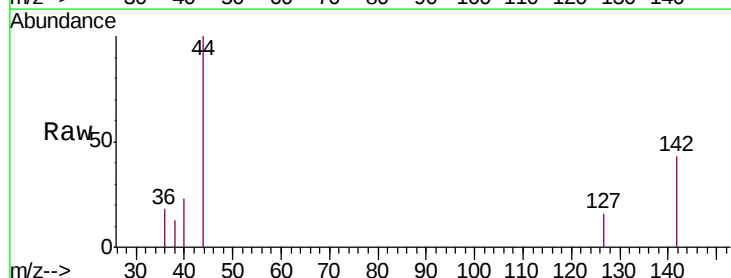
Tgt Ion: 142 Resp: 796

Ion Ratio Lower Upper

142 100

127 32.9 34.3 51.5#

141 0.0 11.8 17.6#



Abundance Ion 141.80 (141.50 to 142.50): VU033956.D (-391) (-)

Ion 126.80 (126.50 to 127.50): VU033956.D (-391) (-)

Ion 140.80 (140.50 to 141.50): VU033956.D (-391) (-)

2.40

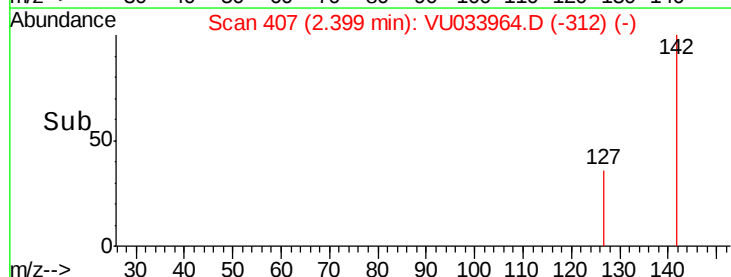
600

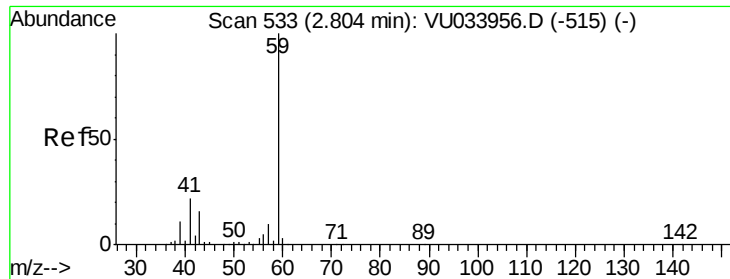
400

200

0

Time--> 2.36 2.38 2.40 2.42 2.44

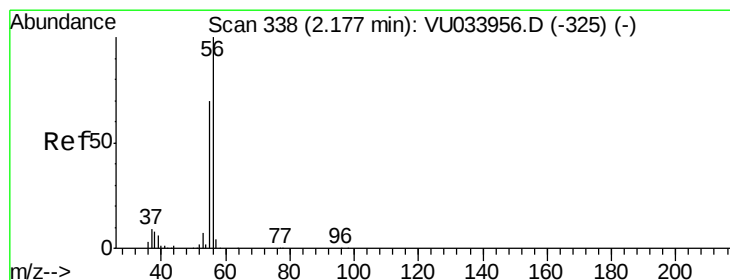
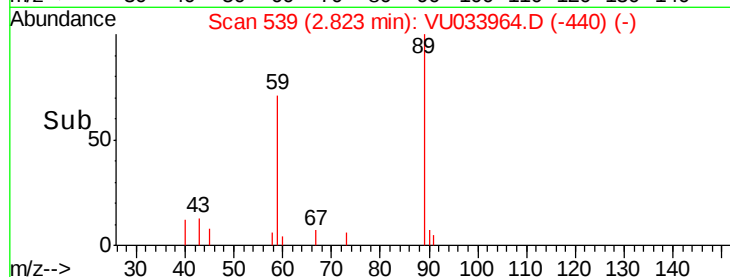
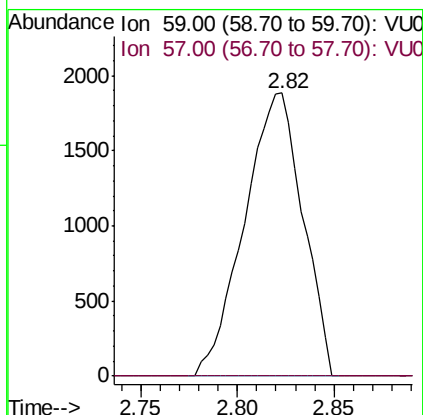
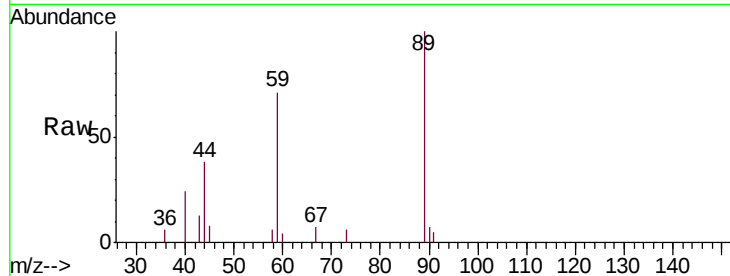




#11  
Tert butyl alcohol  
Concen: 3.162 ug/l  
RT: 2.82 min Scan# 539  
Delta R.T. 0.02 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

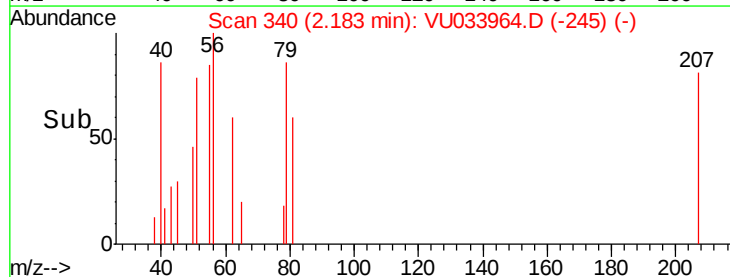
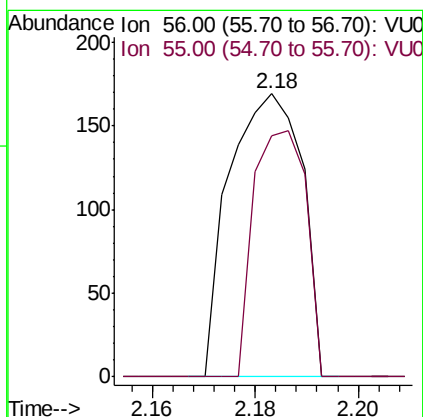
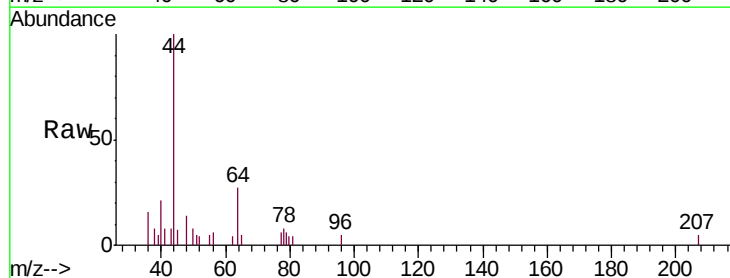
Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

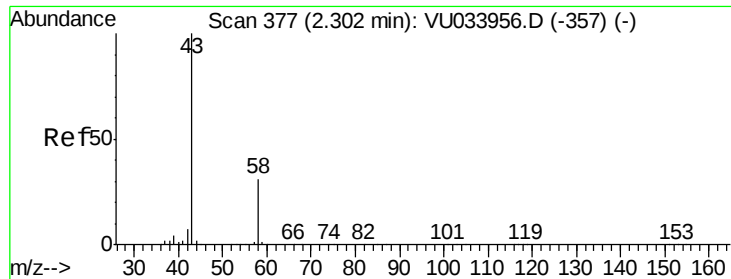
Tgt Ion: 59 Resp: 3951  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#



#13  
Acrolein  
Concen: 0.222 ug/l  
RT: 2.18 min Scan# 340  
Delta R.T. 0.01 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

Tgt Ion: 56 Resp: 165  
Ion Ratio Lower Upper  
56 100  
55 62.4 56.3 84.5

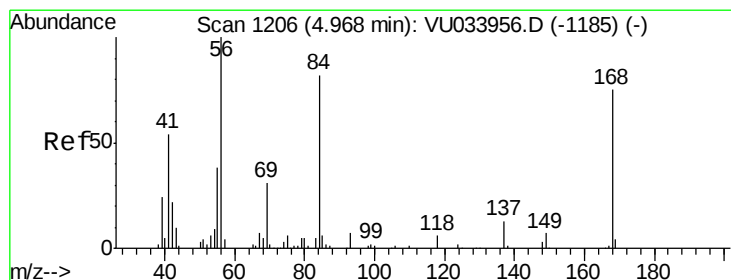
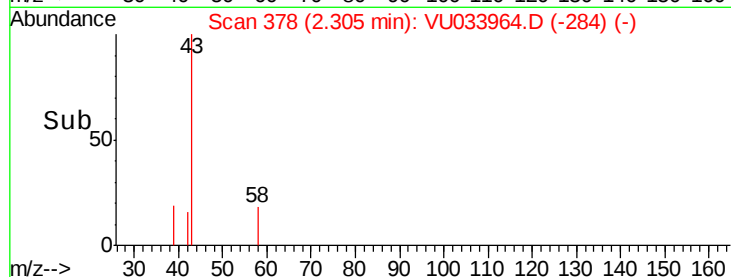
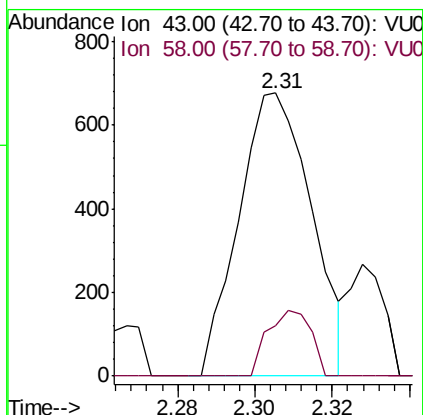
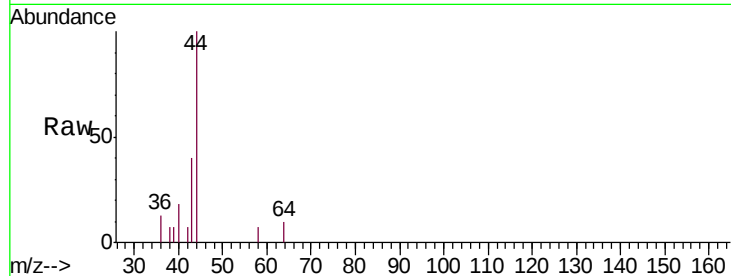




#16  
Acetone  
Concen: 0.248 ug/l  
RT: 2.31 min Scan# 378  
Delta R.T. 0.00 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

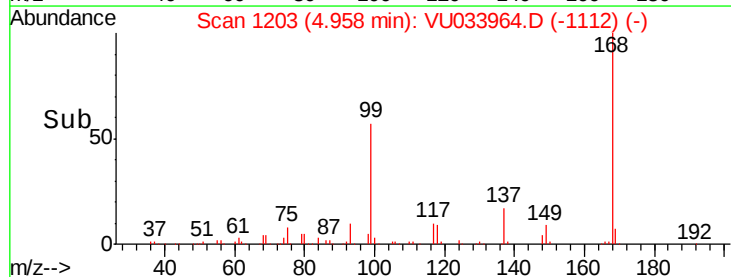
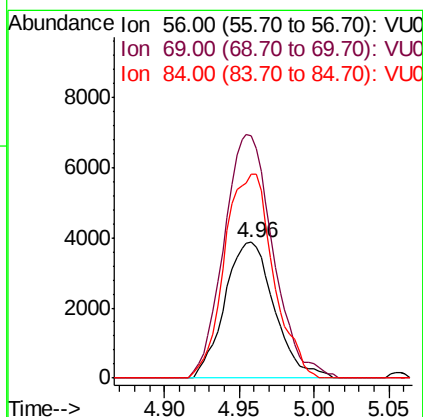
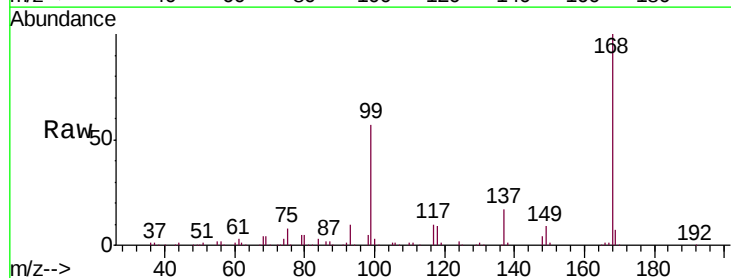
Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

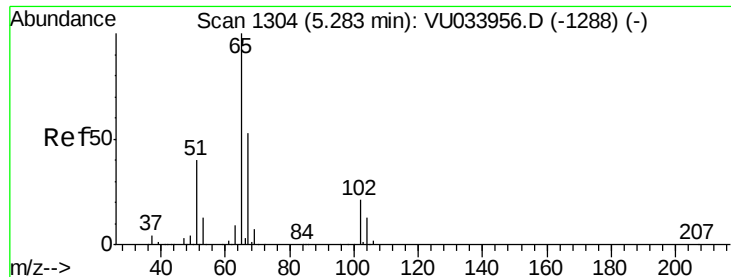
Tgt Ion: 43 Resp: 884  
Ion Ratio Lower Upper  
43 100  
58 17.9 24.5 36.7#



#31  
Cyclohexane  
Concen: 1.027 ug/l  
RT: 4.96 min Scan# 1203  
Delta R.T. -0.01 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

Tgt Ion: 56 Resp: 8923  
Ion Ratio Lower Upper  
56 100  
69 178.2 24.6 37.0#  
84 149.8 65.4 98.0#

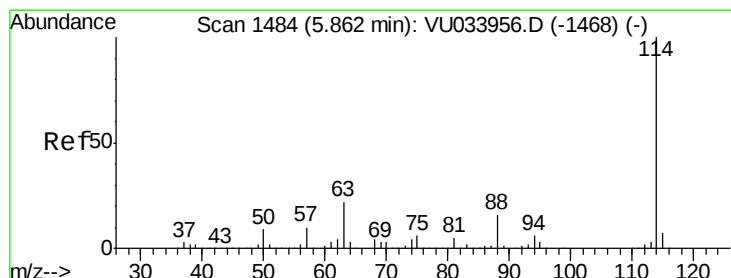
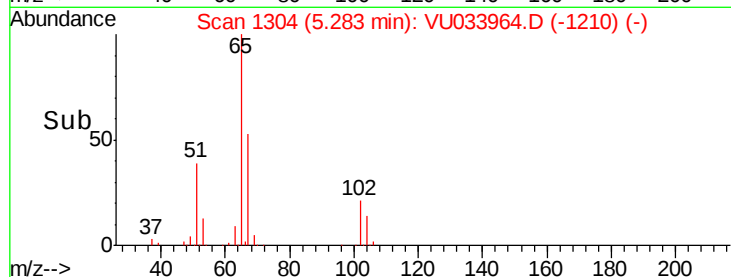
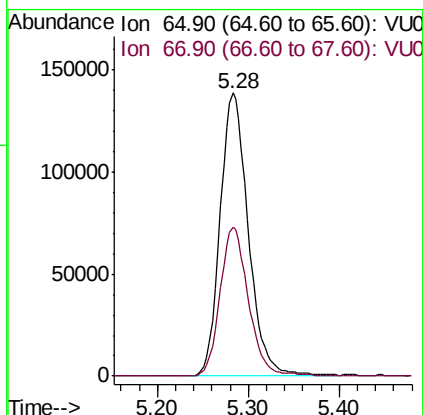
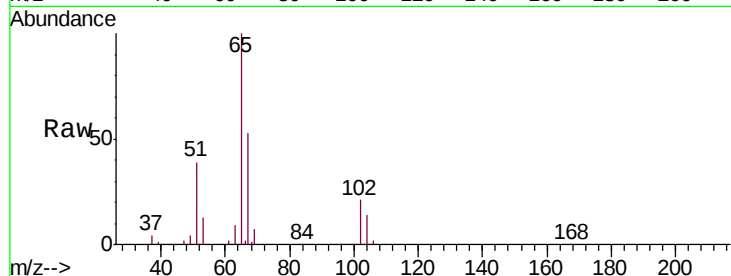




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.127 ug/l  
 RT: 5.28 min Scan# 1304  
 Delta R.T. 0.00 min  
 Lab File: VU033964.D  
 Acq: 26 Aug 2019 22:11

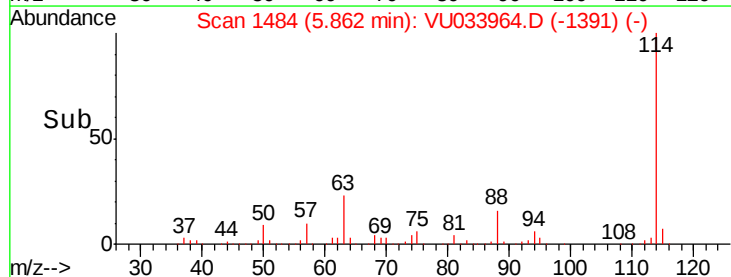
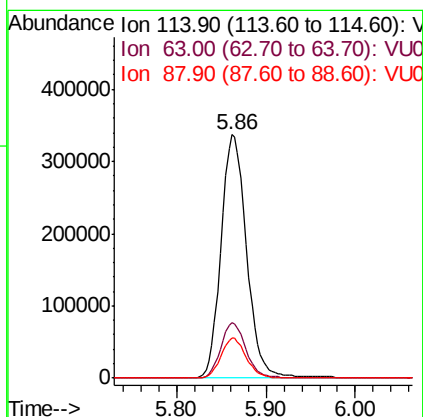
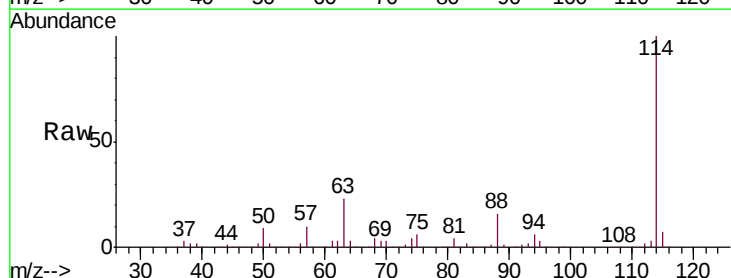
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TRIP

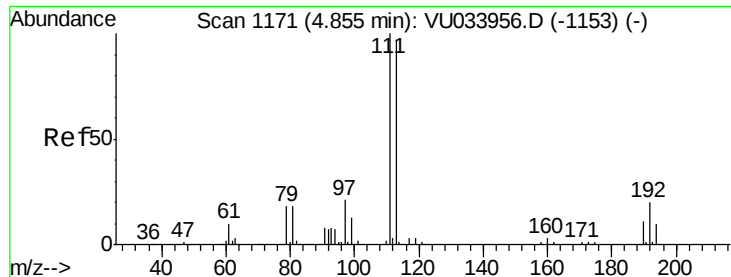
Tgt Ion: 65 Resp: 299712  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.86 min Scan# 1484  
 Delta R.T. -0.00 min  
 Lab File: VU033964.D  
 Acq: 26 Aug 2019 22:11

Tgt Ion: 114 Resp: 671758  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 44.2  
 88 16.3 0.0 32.0

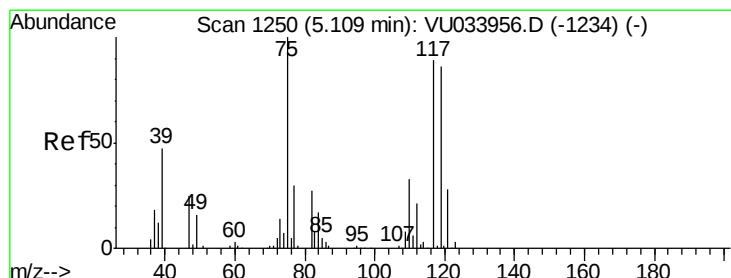
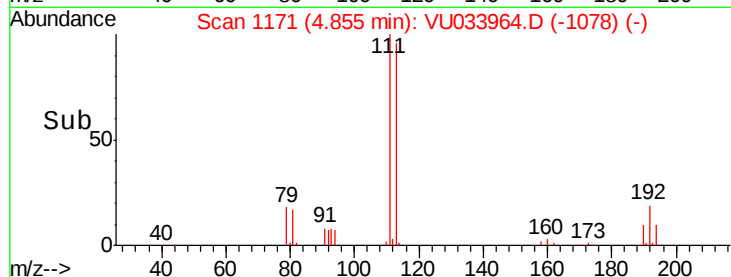
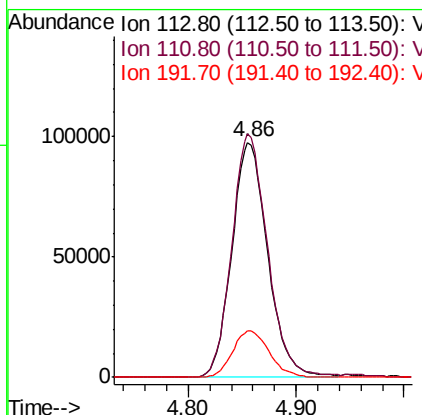
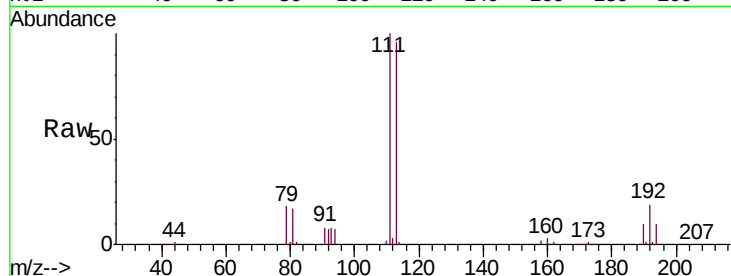




#35  
 Dibromofluoromethane  
 Concen: 48.341 ug/l  
 RT: 4.86 min Scan# 1171  
 Delta R.T. -0.00 min  
 Lab File: VU033964.D  
 Acq: 26 Aug 2019 22:11

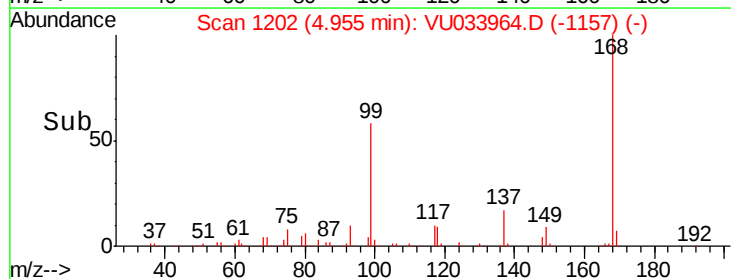
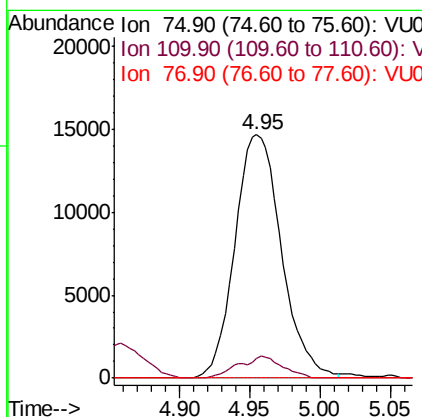
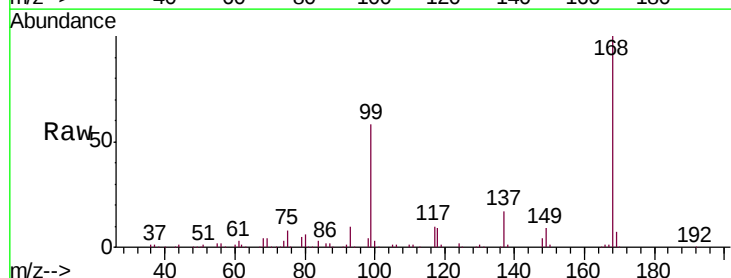
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 TRIP

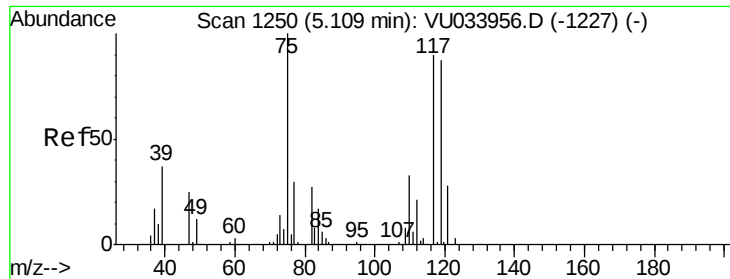
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 82.0  | 123.0 |
| 192     | 20.2  | 16.2  | 24.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.887 ug/l  
 RT: 4.95 min Scan# 1202  
 Delta R.T. -0.15 min  
 Lab File: VU033964.D  
 Acq: 26 Aug 2019 22:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 16.8  | 50.4# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 5.855 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

Instrument :

MSVOA\_U

ClientSampleId :

TRIP

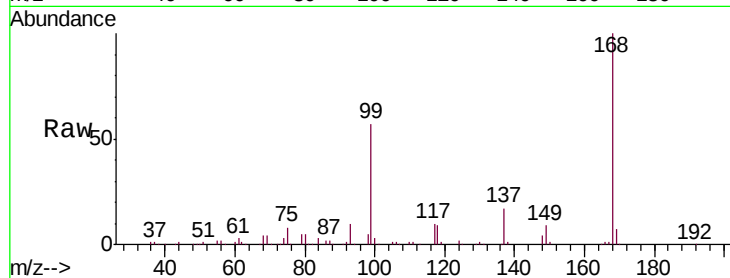
Tgt Ion:117 Resp: 40437

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

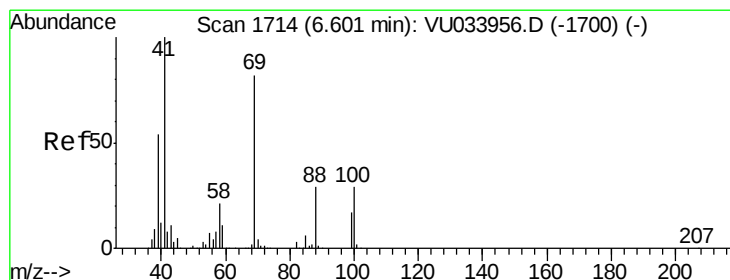
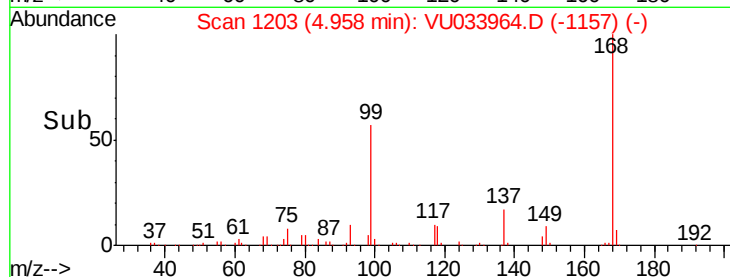
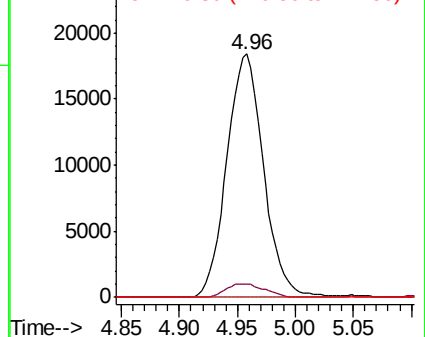
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 2.326 ug/l

RT: 6.39 min Scan# 1647

Delta R.T. -0.22 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

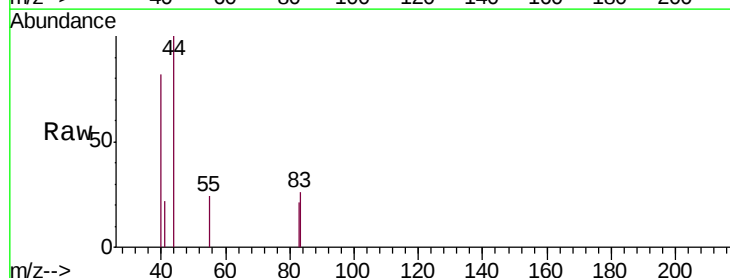
Tgt Ion: 41 Resp: 94

Ion Ratio Lower Upper

41 100

69 0.0 66.9 100.3#

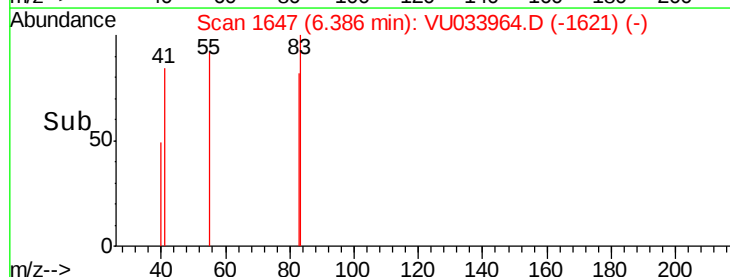
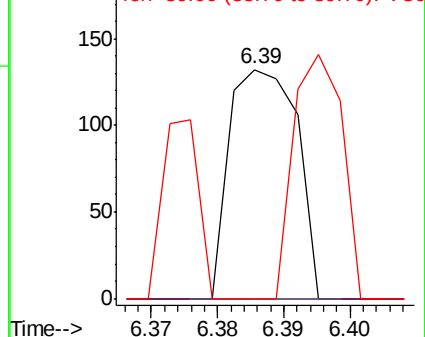
39 77.7 43.3 64.9#

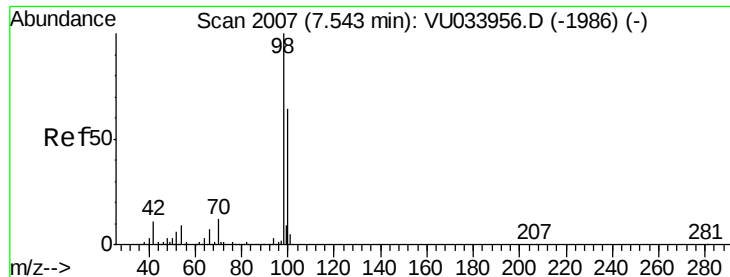


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#50

Toluene-d8

Concen: 50.664 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

Instrument :

MSVOA\_U

ClientSampleId :

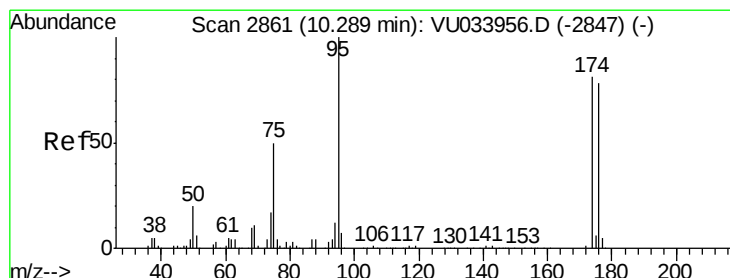
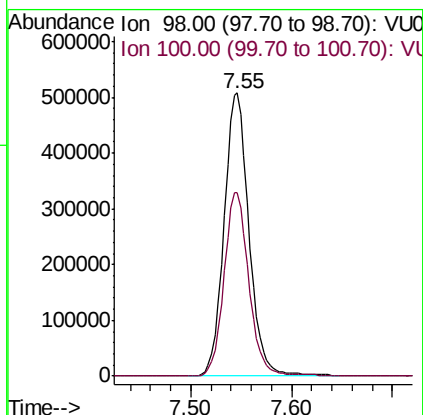
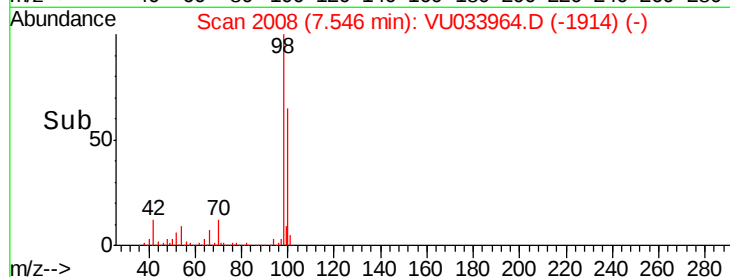
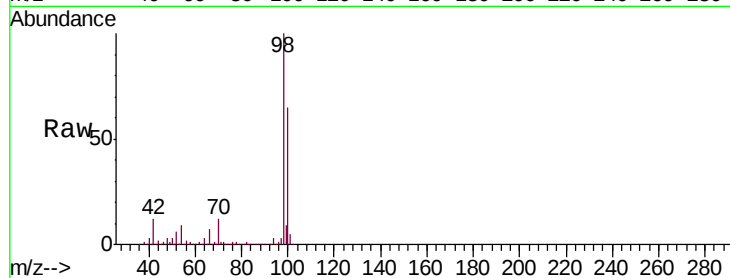
TRIP

Tgt Ion: 98 Resp: 875696

Ion Ratio Lower Upper

98 100

100 65.1 51.8 77.6



#62

4-Bromofluorobenzene

Concen: 41.522 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

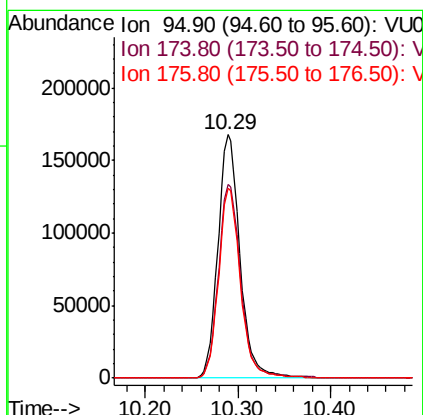
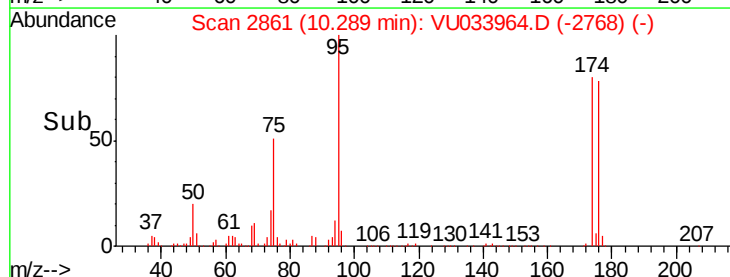
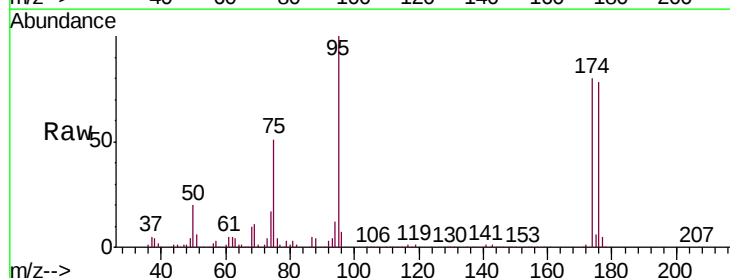
Tgt Ion: 95 Resp: 276656

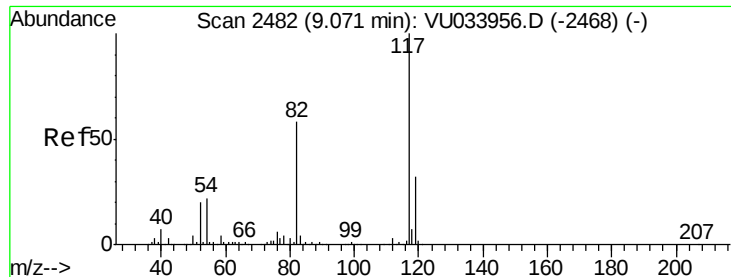
Ion Ratio Lower Upper

95 100

174 80.8 0.0 160.4

176 76.9 0.0 154.2

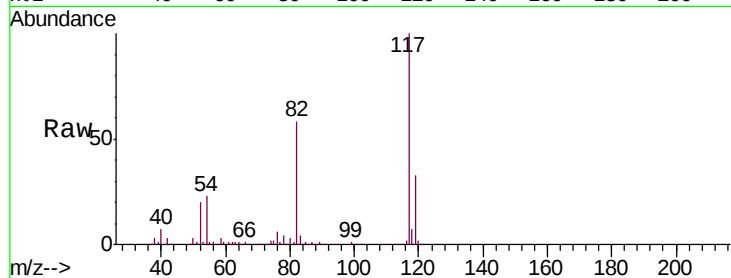




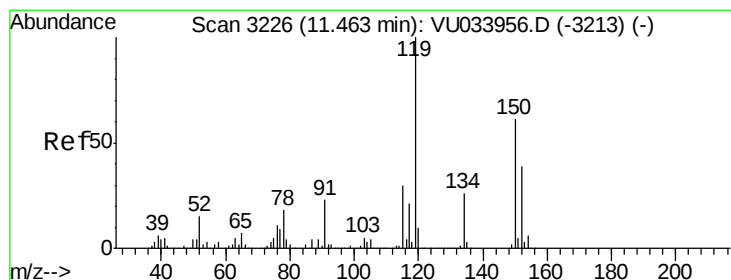
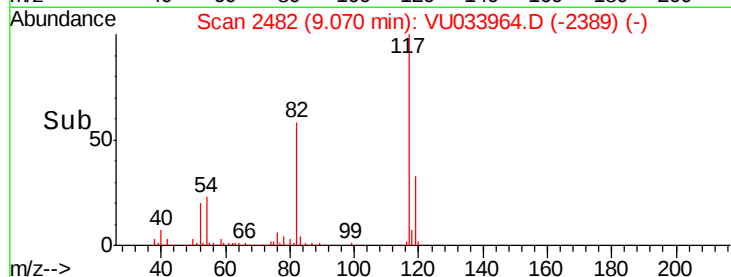
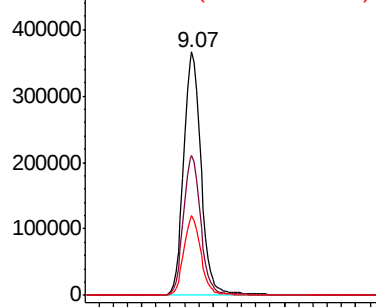
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.07 min Scan# 2482  
Delta R.T. -0.00 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.7  | 46.4  | 69.6  |
| 119     | 32.7  | 25.3  | 37.9  |

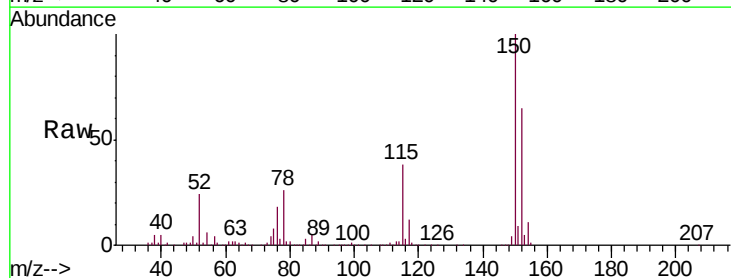


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

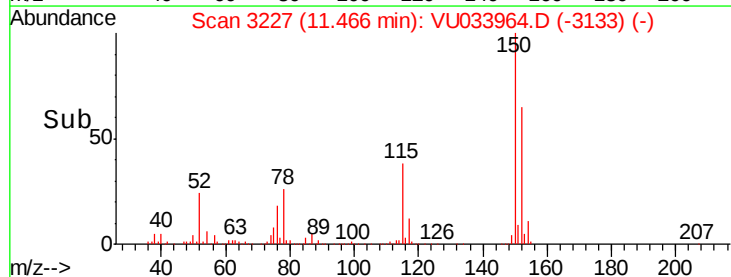
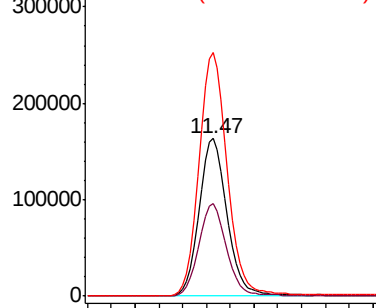


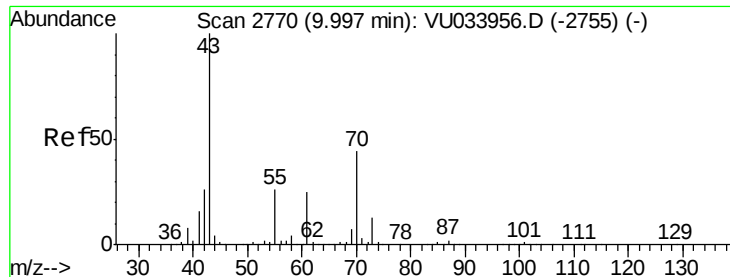
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.47 min Scan# 3227  
Delta R.T. 0.00 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.7  | 40.3  | 120.9 |
| 150     | 156.6 | 0.0   | 346.0 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 3.592 ug/l

RT: 10.02 min Scan# 2778

Delta R.T. 0.03 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

Instrument :

MSVOA\_U

ClientSampleId :

TRIP

Tgt Ion: 43 Resp: 20

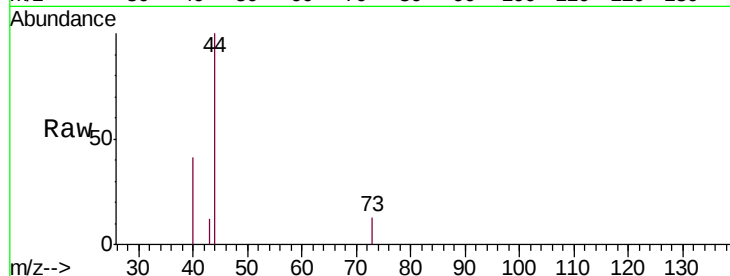
Ion Ratio Lower Upper

43 100

70 0.0 34.5 51.7#

55 0.0 20.9 31.3#

61 0.0 19.7 29.5#

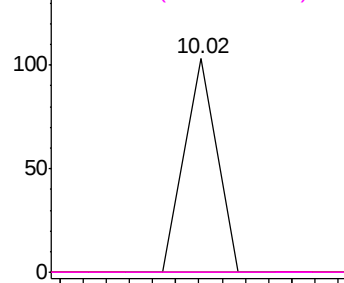


Abundance Ion 43.00 (42.70 to 43.70): VU0

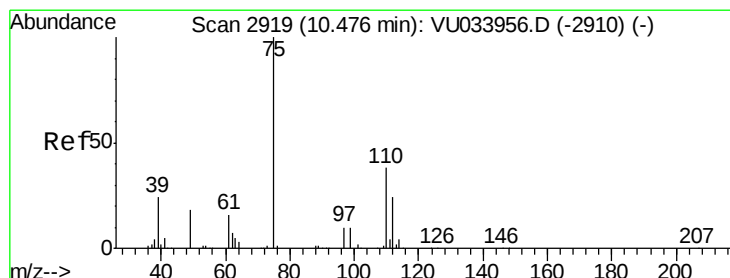
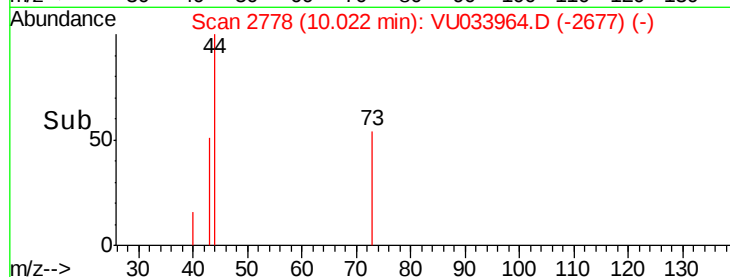
Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



Time-->



#76

1,2,3-Trichloropropane

Concen: 22.938 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033964.D

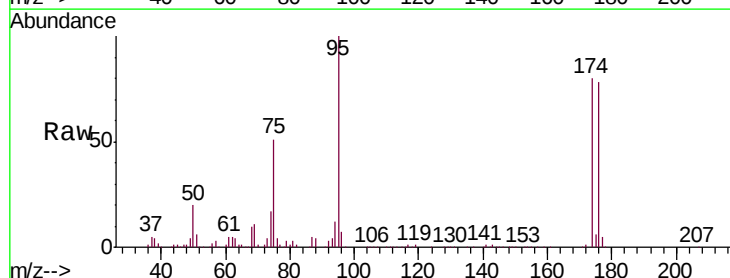
Acq: 26 Aug 2019 22:11

Tgt Ion: 75 Resp: 141292

Ion Ratio Lower Upper

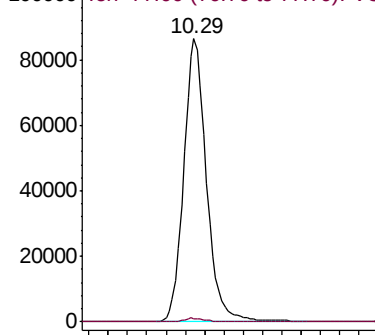
75 100

77 1.2 20.1 60.3#

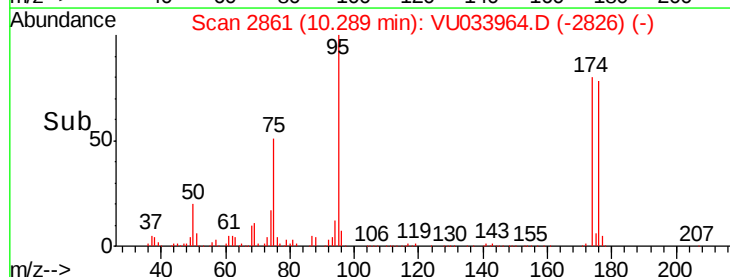


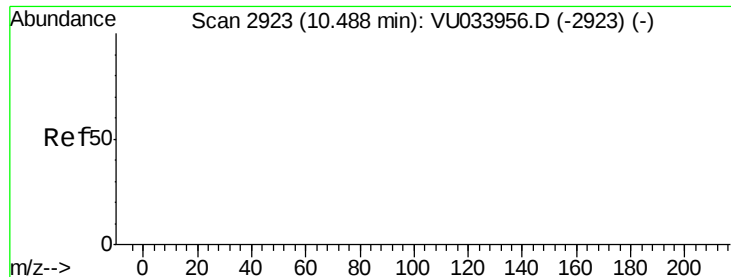
Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 61.162 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

Instrument :

MSVOA\_U

ClientSampleId :

TRIP

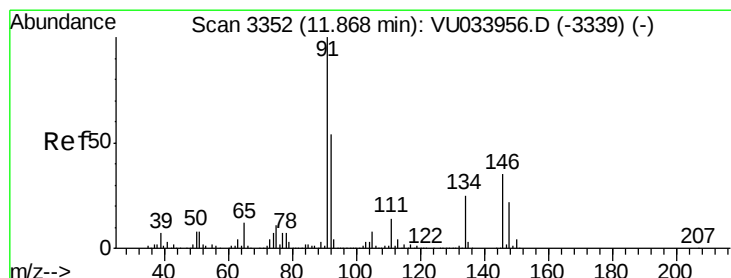
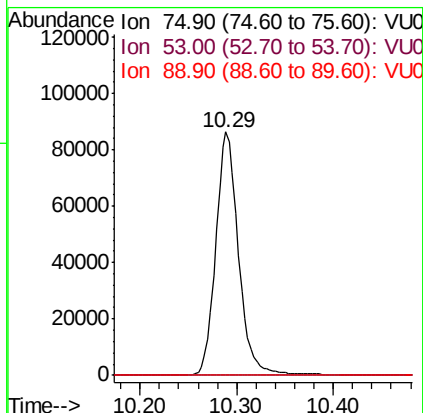
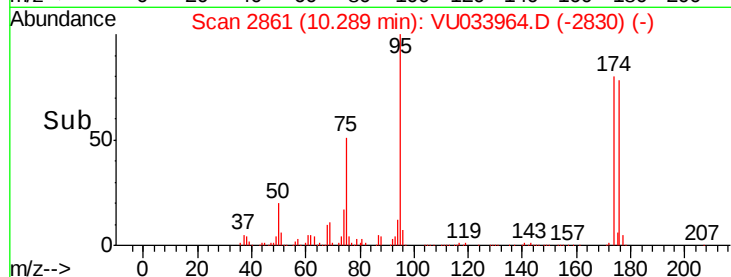
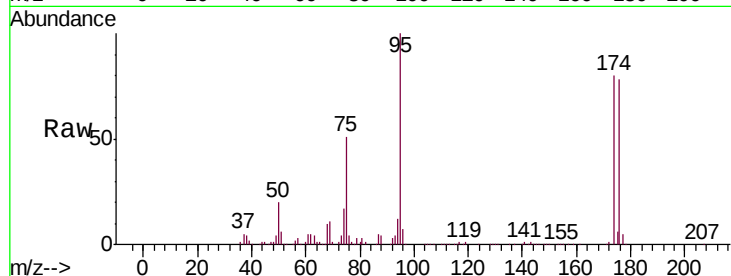
Tgt Ion: 75 Resp: 141292

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#89

n-Butylbenzene

Concen: 2.709 ug/l

RT: 11.87 min Scan# 3354

Delta R.T. 0.01 min

Lab File: VU033964.D

Acq: 26 Aug 2019 22:11

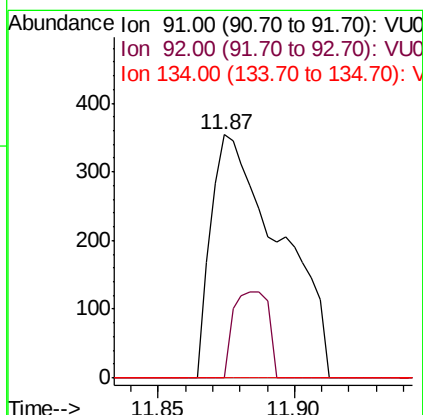
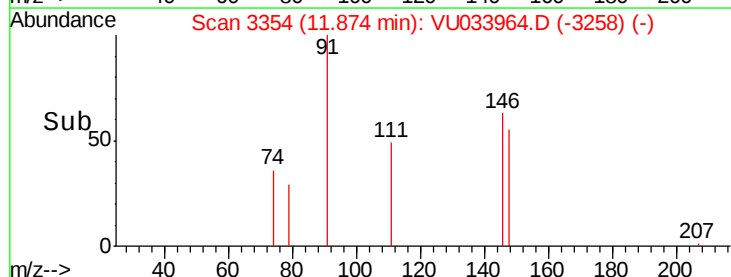
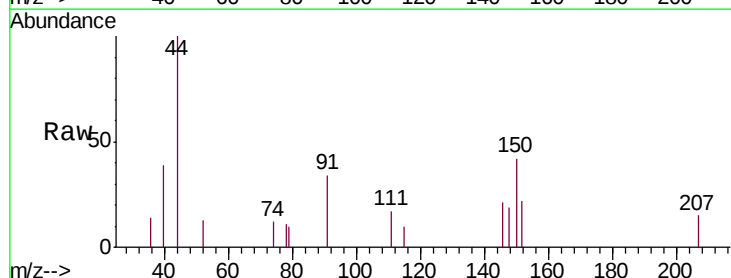
Tgt Ion: 91 Resp: 620

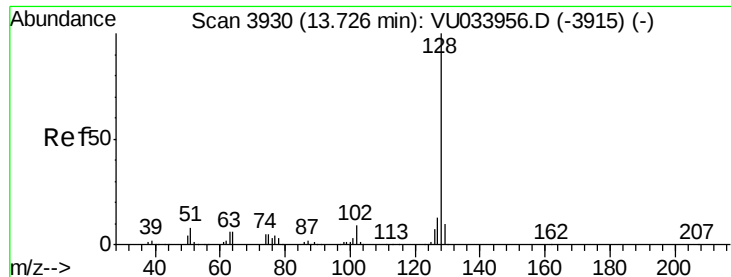
Ion Ratio Lower Upper

91 100

92 18.2 26.9 80.6#

134 0.0 12.6 37.6#

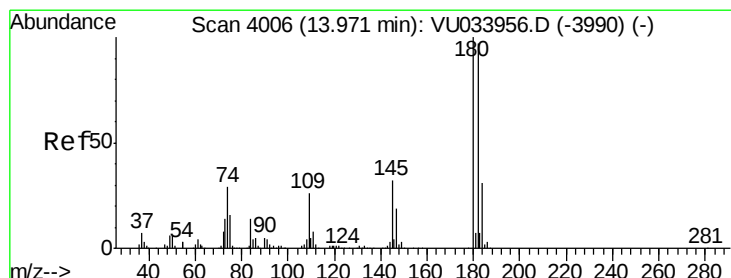
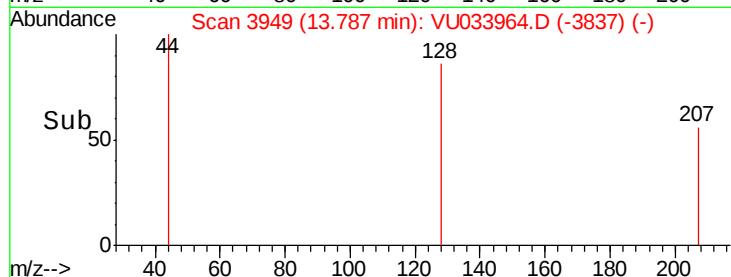
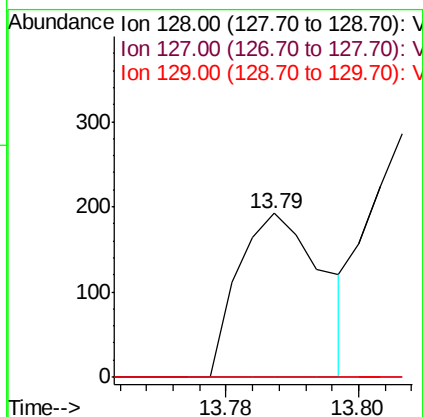
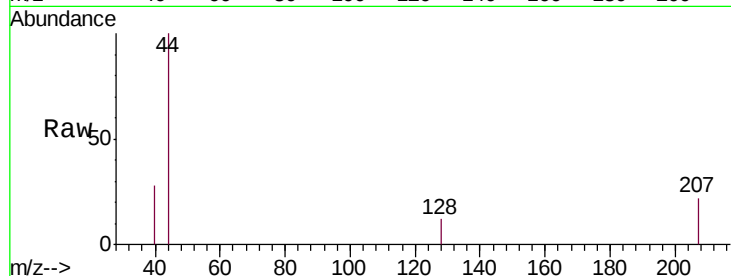




#95  
Naphthalene  
Concen: 4.517 ug/l  
RT: 13.79 min Scan# 3949  
Delta R.T. 0.06 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

Instrument :  
MSVOA\_U  
ClientSampled :  
TRIP

Tgt Ion:128 Resp: 170  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.1 15.1#  
129 0.0 8.3 12.5#



#96  
1,2,3-Trichlorobenzene  
Concen: 3.038 ug/l  
RT: 14.02 min Scan# 4020  
Delta R.T. 0.05 min  
Lab File: VU033964.D  
Acq: 26 Aug 2019 22:11

Tgt Ion:180 Resp: 68  
Ion Ratio Lower Upper  
180 100  
182 0.0 48.6 145.8#  
145 0.0 15.7 47.0#

