

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\  
 Data File : VF059817.D  
 Acq On : 2 Aug 2018 22:53  
 Operator : VA/AP  
 Sample : J4267-11  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 96 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-N

Quant Time: Aug 03 07:07:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 178543   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 252307   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 219709   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 111678   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.01   | 65  | 146670   | 45.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.42% |      |
| 35) Dibromofluoromethane  | 4.28   | 113 | 117900   | 44.99 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.98% |      |
| 50) Toluene-d8            | 7.70   | 98  | 189842   | 31.07 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 62.14% |      |
| 62) 4-Bromofluorobenzene  | 11.51  | 95  | 99465    | 29.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 58.80% |      |

## Target Compounds

|                              |       |     |      |           |        | Qvalue |
|------------------------------|-------|-----|------|-----------|--------|--------|
| 2) Dichlorodifluoromethane   | 0.98  | 85  | 108  | Below Cal | #      | 44     |
| 3) Chloromethane             | 1.10  | 50  | 615  | Below Cal | #      | 38     |
| 4) Vinyl Chloride            | 1.18  | 62  | 130  | Below Cal | #      | 1      |
| 5) Bromomethane              | 1.35  | 94  | 404  | Below Cal | #      | 56     |
| 6) Chloroethane              | 1.42  | 64  | 220  | Below Cal | #      | 35     |
| 8) Diethyl Ether             | 1.69  | 74  | 1266 | 2.221     | ug/l   | 95     |
| 10) Methyl Iodide            | 1.98  | 142 | 77   | Below Cal | #      | 20     |
| 11) Tert butyl alcohol       | 2.69  | 59  | 81   | Below Cal | #      | 74     |
| 13) Acrolein                 | 2.21  | 56  | 295  | 20.138    | ug/l   | 92     |
| 15) Acrylonitrile            | 3.02  | 53  | 770  | 3.776     | ug/l # | 24     |
| 16) Acetone                  | 2.34  | 43  | 3293 | 5.705     | ug/l # | 84     |
| 17) Carbon Disulfide         | 1.91  | 76  | 231  | Below Cal | #      | 71     |
| 18) Methyl Acetate           | 2.47  | 43  | 1331 | Below Cal | #      | 64     |
| 20) Methylene Chloride       | 2.26  | 84  | 1807 | Below Cal |        | 86     |
| 21) trans-1,2-Dichloroethene | 2.43  | 96  | 145  | Below Cal | #      | 1      |
| 28) Bromochloromethane       | 3.80  | 49  | 73   | Below Cal | #      | 15     |
| 29) Tetrahydrofuran          | 4.25  | 42  | 524  | 2.117     | ug/l # | 49     |
| 31) Cyclohexane              | 3.81  | 56  | 77   | Below Cal | #      | 15     |
| 36) 1,1-Dichloropropene      | 4.43  | 75  | 496  | Below Cal |        | 92     |
| 37) Ethyl Acetate            | 4.32  | 43  | 260  | Below Cal | #      | 19     |
| 41) Methacrylonitrile        | 4.92  | 41  | 279  | Below Cal | #      | 39     |
| 49) 1,4-Dioxane              | 7.00  | 88  | 98   | Below Cal | #      | 21     |
| 52) Toluene                  | 7.77  | 92  | 345  | Below Cal | #      | 1      |
| 68) m/p-Xylenes              | 10.28 | 106 | 70   | Below Cal | #      | 1      |
| 78) n-propylbenzene          | 11.68 | 91  | 406  | Below Cal | #      | 54     |
| 79) 2-Chlorotoluene          | 11.79 | 91  | 196  | Below Cal | #      | 44     |
| 80) 1,3,5-Trimethylbenzene   | 11.91 | 105 | 195  | Below Cal | #      | 31     |
| 82) 4-Chlorotoluene          | 11.98 | 91  | 311  | Below Cal | #      | 44     |
| 84) 1,2,4-Trimethylbenzene   | 12.28 | 105 | 167  | Below Cal |        | 94     |
| 85) sec-Butylbenzene         | 12.37 | 105 | 167  | Below Cal | #      | 57     |
| 86) p-Isopropyltoluene       | 12.52 | 119 | 170  | Below Cal | #      | 49     |
| 87) 1,3-Dichlorobenzene      | 12.55 | 146 | 95   | Below Cal | #      | 54     |
| 88) 1,4-Dichlorobenzene      | 12.65 | 146 | 297  | Below Cal | #      | 24     |
| 89) n-Butylbenzene           | 12.89 | 91  | 145  | Below Cal | #      | 29     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\  
Data File : VF059817.D  
Acq On : 2 Aug 2018 22:53  
Operator : VA/AP  
Sample : J4267-11  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 96 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
UST-N

Quant Time: Aug 03 07:07:48 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 15:23:22 2018  
Response via : Initial Calibration

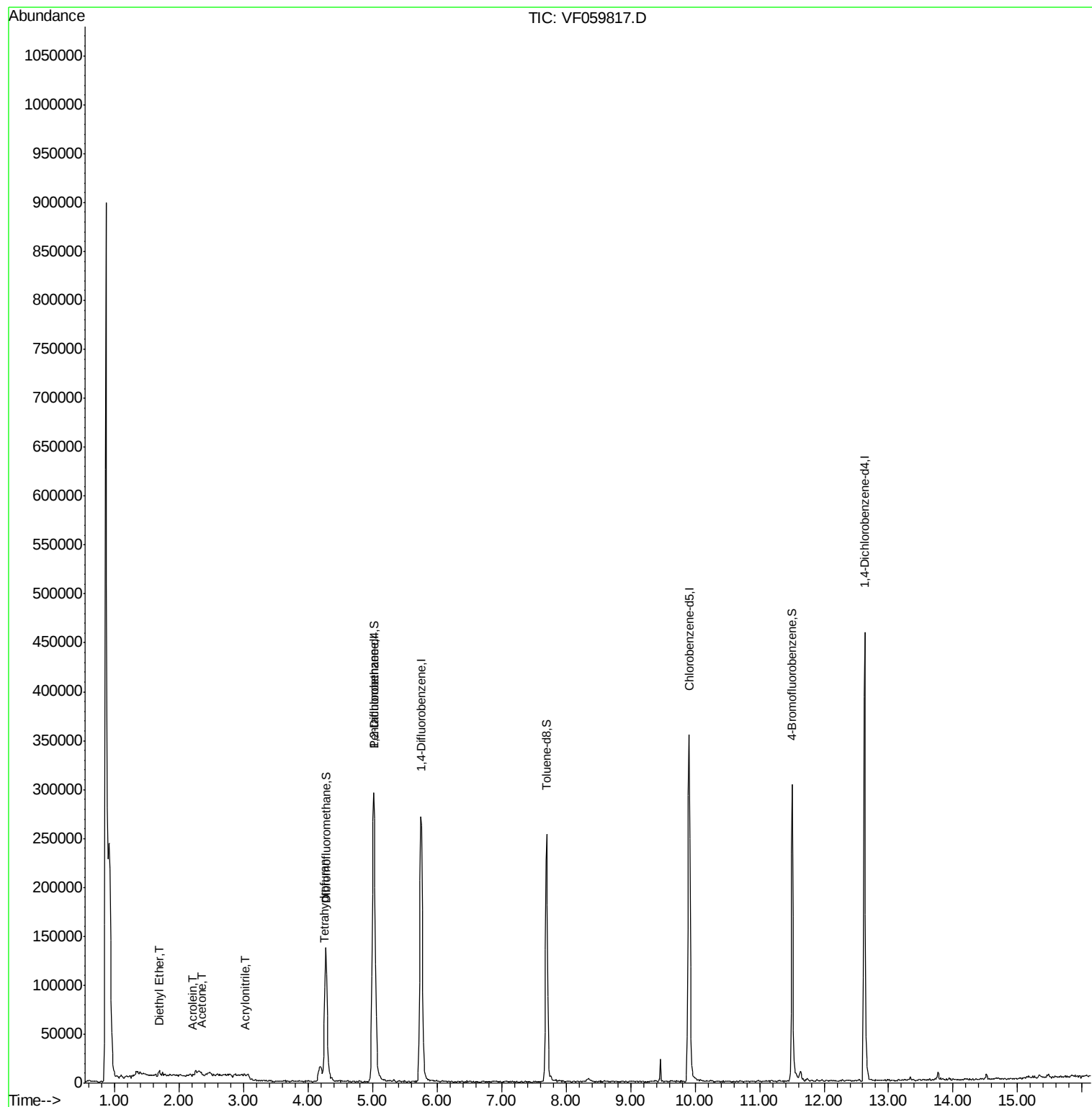
| Internal Standards         | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|----------------------------|-------|------|----------|-----------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.27 | 180  | 169      | Below Cal | #     | 61       |

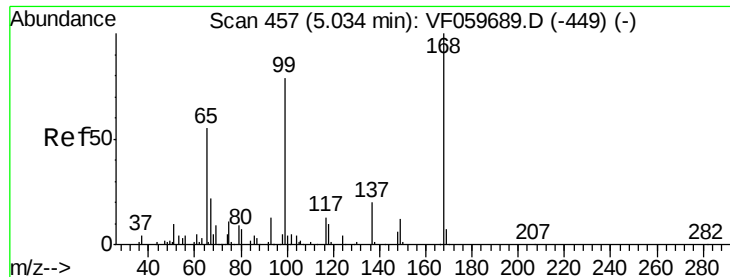
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF080218\  
Data File : VF059817.D  
Acq On : 2 Aug 2018 22:53  
Operator : VA/AP  
Sample : J4267-11  
Misc : 5.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 96 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
UST-N

Quant Time: Aug 03 07:07:48 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 15:23:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

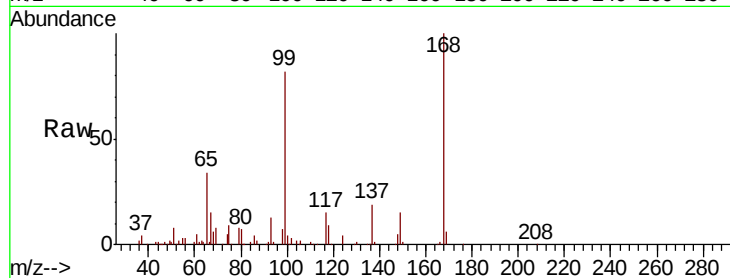
UST-N

Tot Ion:168 Resp: 178543

Ion Ratio Lower Upper

168 100

99 81.8 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

60000

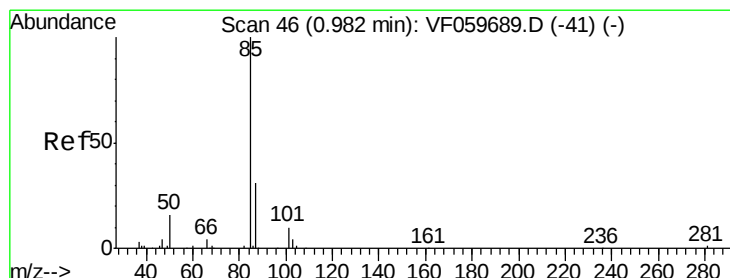
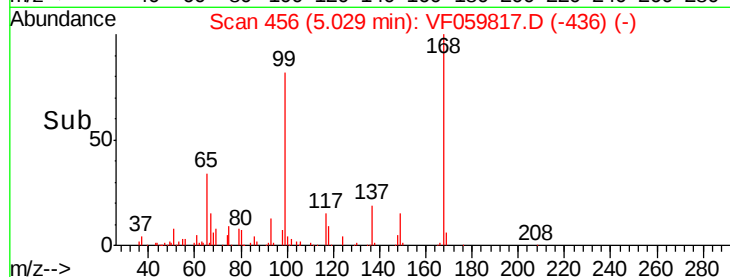
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF059817.D

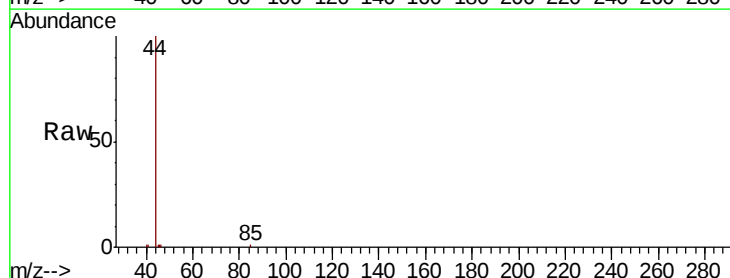
Acq: 2 Aug 2018 22:53

Tgt Ion: 85 Resp: 108

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

200

150

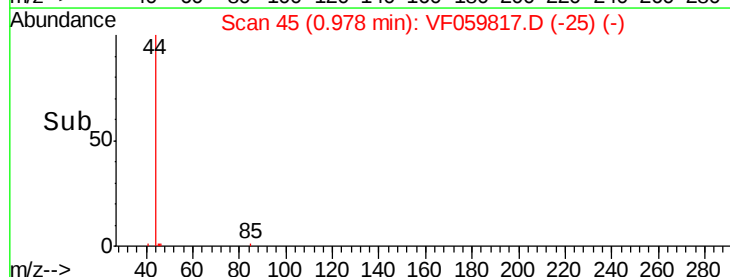
100

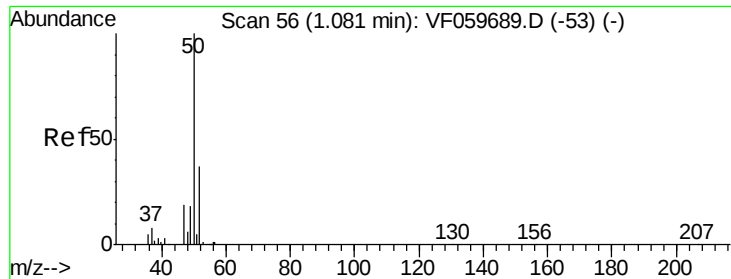
50

0

Time-->

0.94 0.96 0.98 1.00





#3

Chloromethane

Concen: Below Cal

RT: 1.10 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

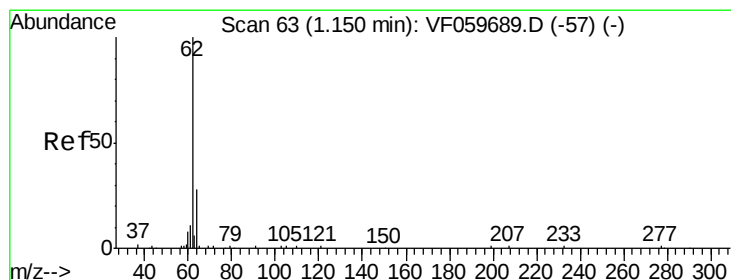
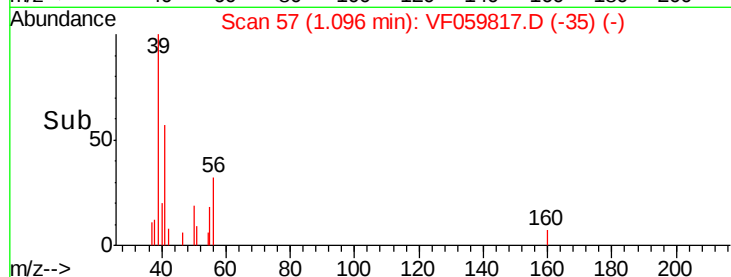
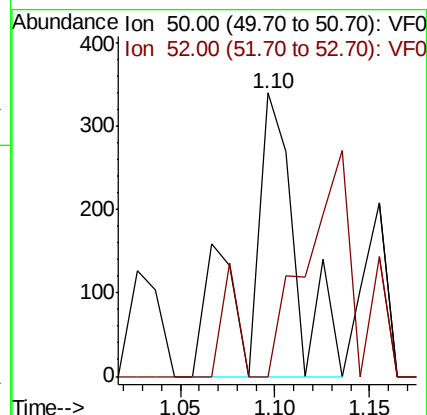
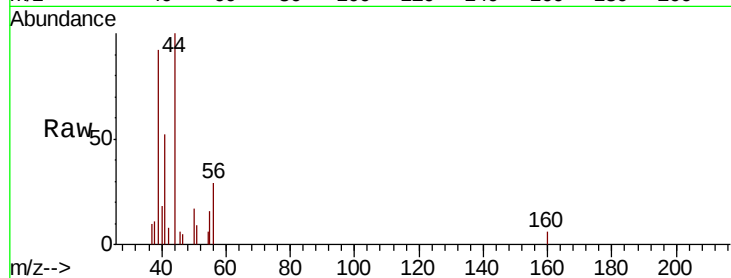
UST-N

Tot Ion: 50 Resp: 615

Ion Ratio Lower Upper

50 100

52 0.0 29.1 43.7#



#4

Vinyl Chloride

Concen: Below Cal

RT: 1.18 min Scan# 66

Delta R.T. 0.04 min

Lab File: VF059817.D

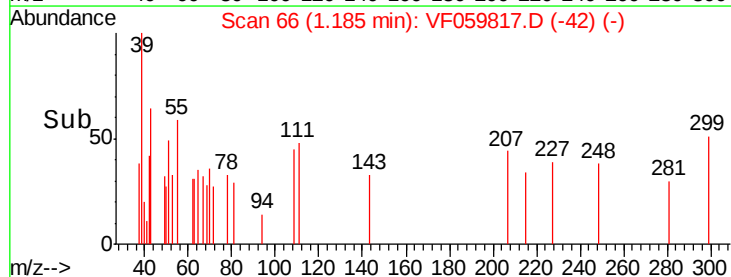
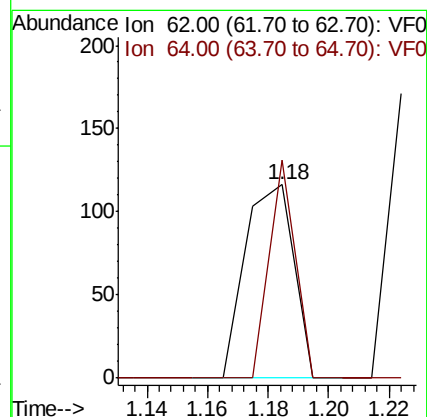
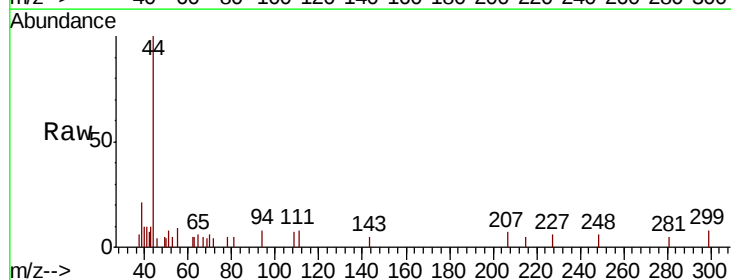
Acq: 2 Aug 2018 22:53

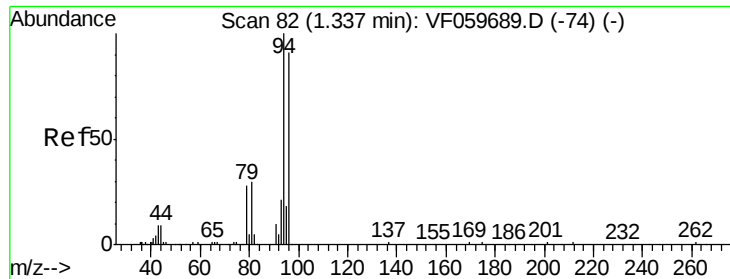
Tgt Ion: 62 Resp: 130

Ion Ratio Lower Upper

62 100

64 112.9 22.6 33.8#





#5

Bromomethane

Concen: Below Cal

RT: 1.35 min Scan# 83

Delta R.T. 0.02 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

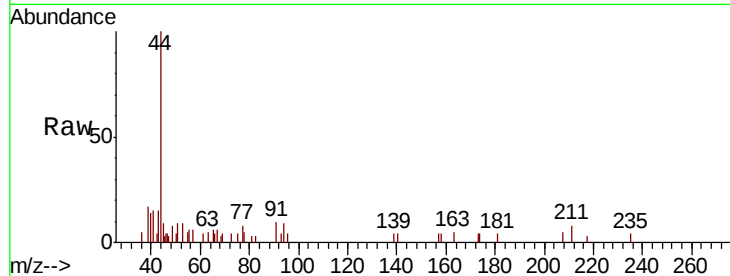
UST-N

Tot Ion: 94 Resp: 404

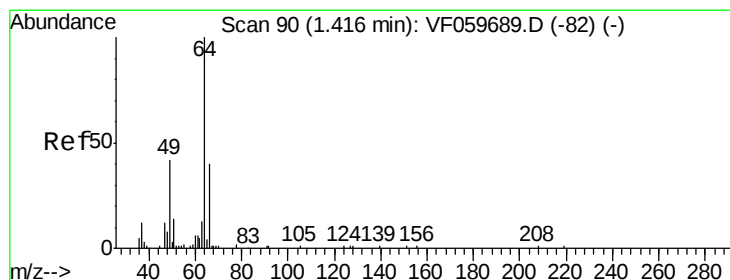
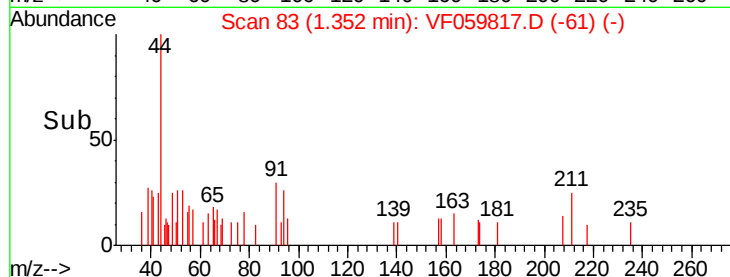
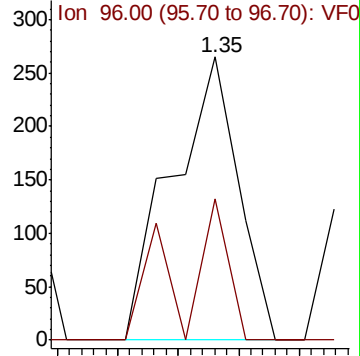
Ion Ratio Lower Upper

94 100

96 49.8 73.6 110.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0



#6

Chloroethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF059817.D

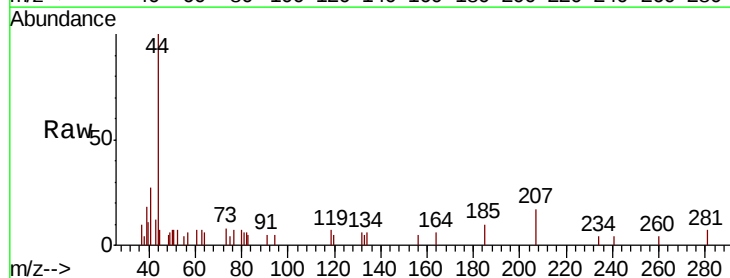
Acq: 2 Aug 2018 22:53

Tgt Ion: 64 Resp: 220

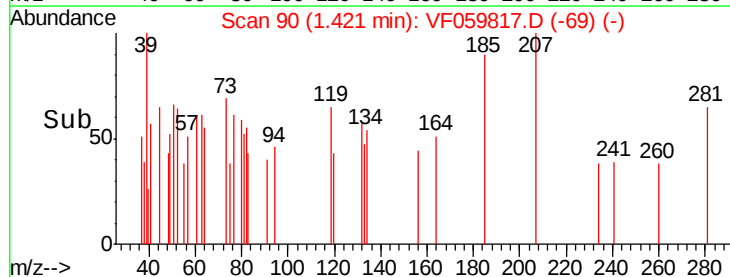
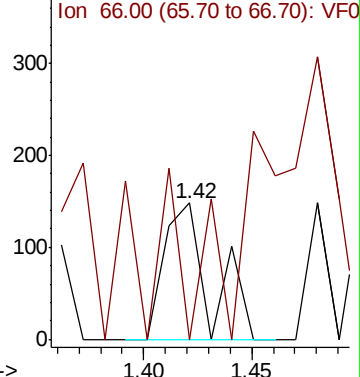
Ion Ratio Lower Upper

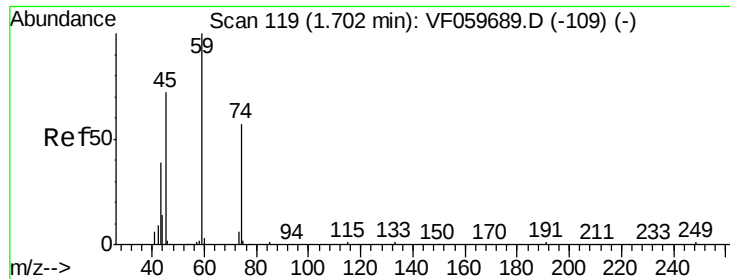
64 100

66 0.0 32.6 49.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0





#8

Diethyl Ether

Concen: 2.221 ug/l

RT: 1.69 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

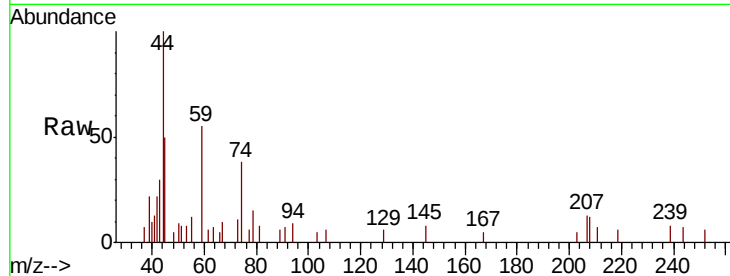
UST-N

Tot Ion: 74 Resp: 1266

Ion Ratio Lower Upper

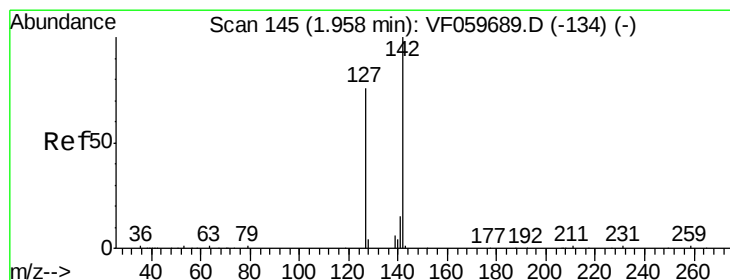
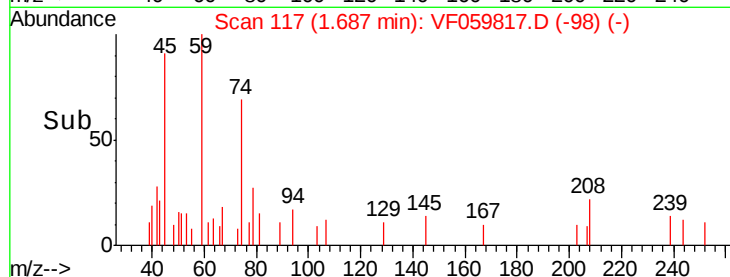
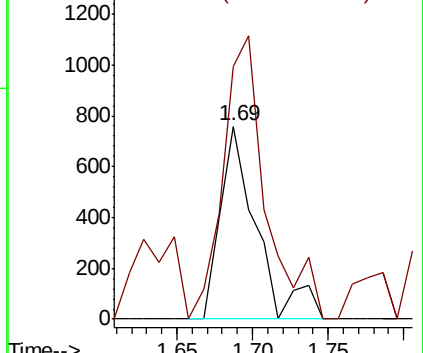
74 100

45 131.1 62.7 188.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#10

Methyl Iodide

Concen: Below Cal

RT: 1.98 min Scan# 147

Delta R.T. 0.03 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

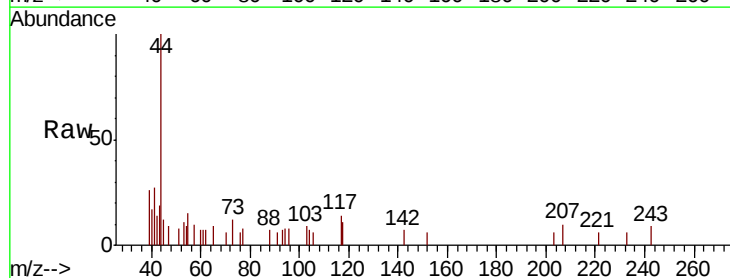
Tgt Ion: 142 Resp: 77

Ion Ratio Lower Upper

142 100

127 0.0 60.6 91.0#

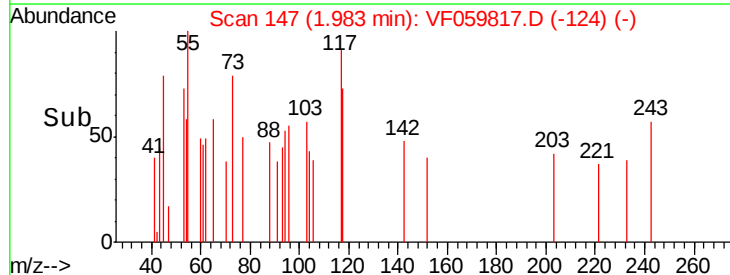
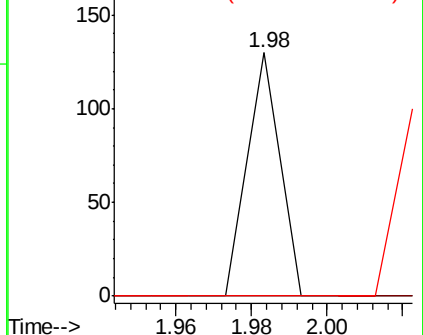
141 0.0 12.0 18.0#

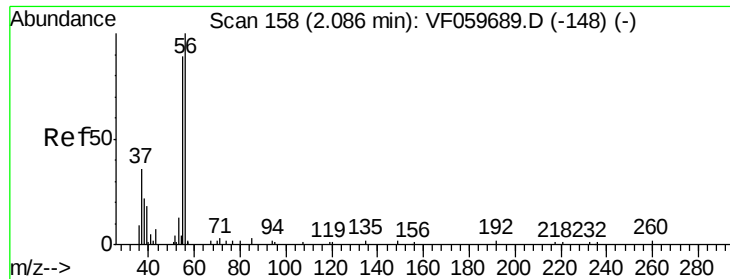


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 20.138 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.12 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

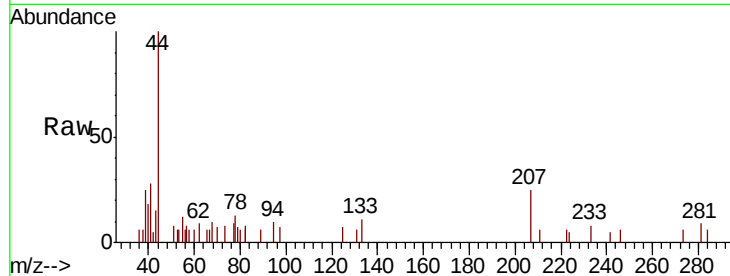
Instrument :  
MSVOA\_F  
ClientSampleId :  
UST-N

Tot Ion: 56 Resp: 295

Ion Ratio Lower Upper

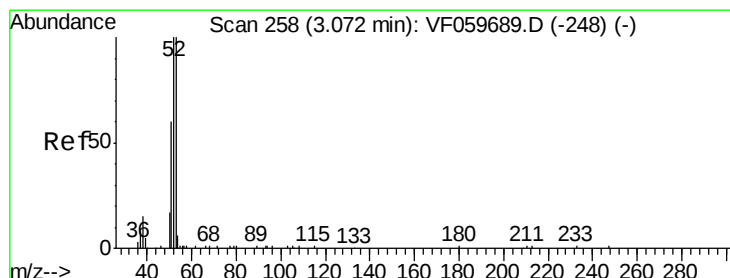
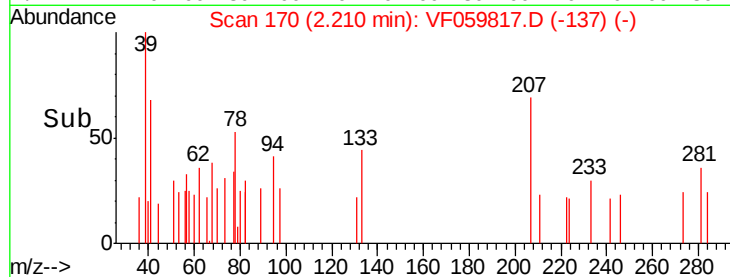
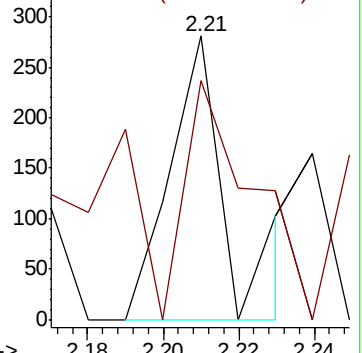
56 100

55 84.3 73.2 109.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 3.776 ug/l

RT: 3.02 min Scan# 252

Delta R.T. -0.05 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

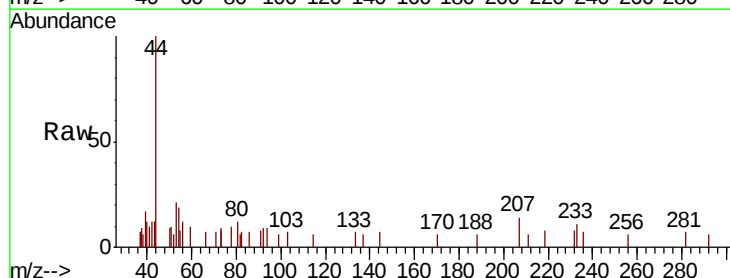
Tgt Ion: 53 Resp: 770

Ion Ratio Lower Upper

53 100

52 27.3 80.3 120.5#

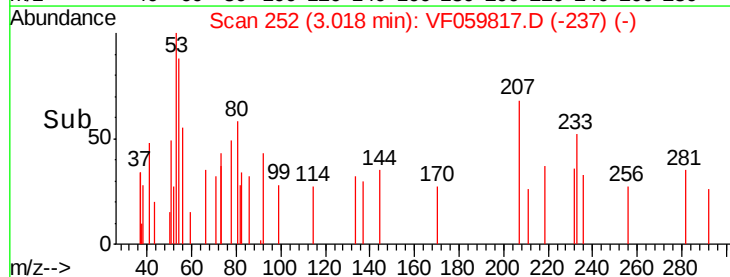
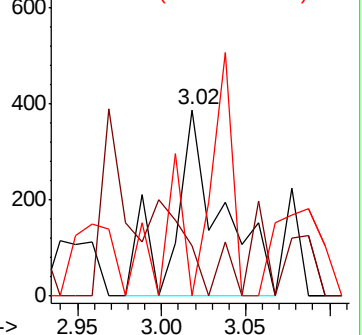
51 0.0 49.4 74.0#

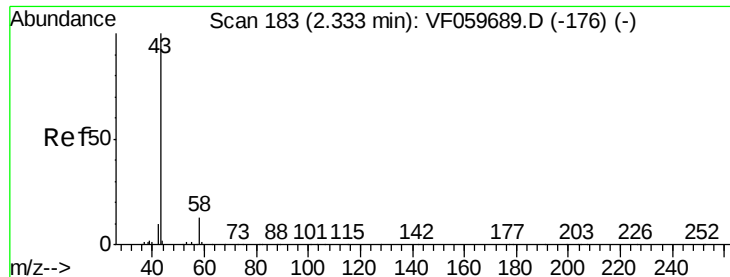


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 5.705 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampled :

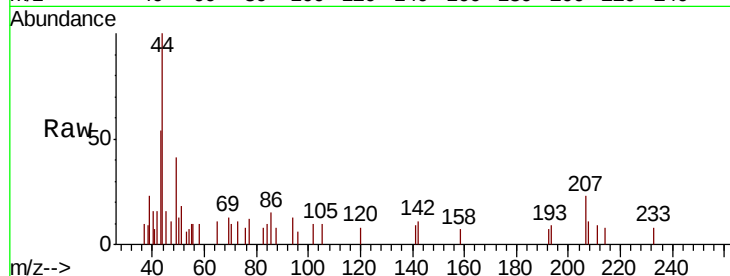
UST-N

Tot Ion: 43 Resp: 3293

Ion Ratio Lower Upper

43 100

58 19.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

800

600

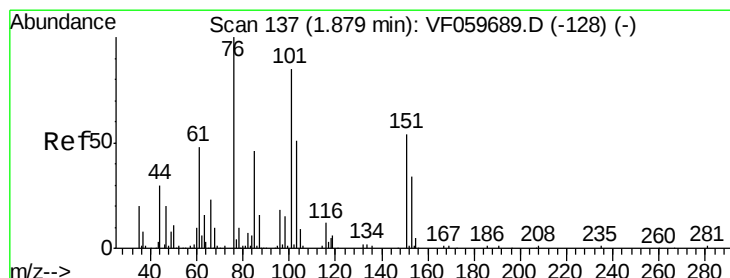
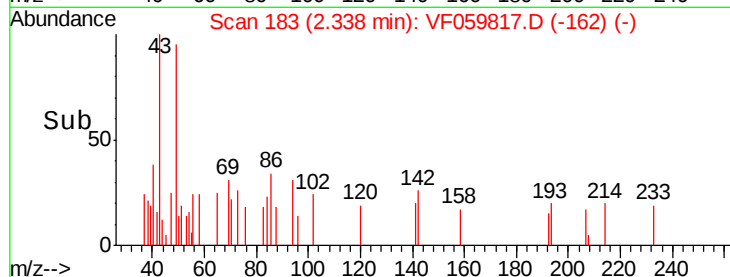
400

200

0

Time-->

2.25 2.30 2.35 2.40



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.91 min Scan# 140

Delta R.T. 0.04 min

Lab File: VF059817.D

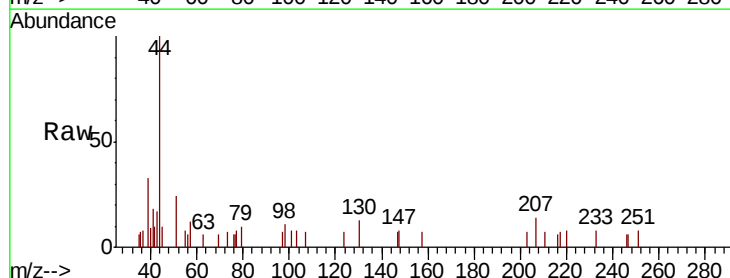
Acq: 2 Aug 2018 22:53

Tgt Ion: 76 Resp: 231

Ion Ratio Lower Upper

76 100

78 0.0 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.91

250

200

150

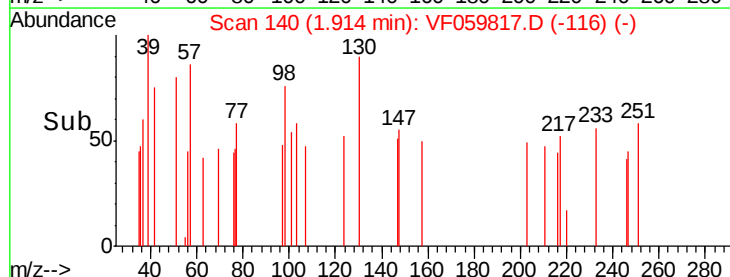
100

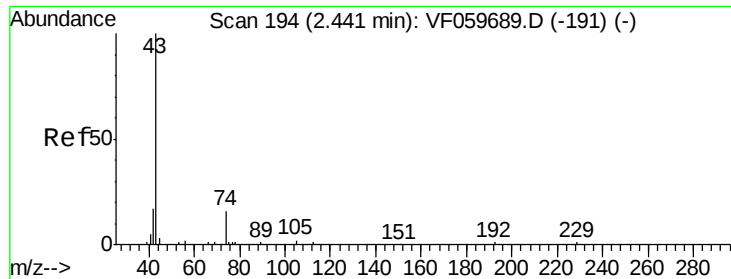
50

0

Time-->

1.86 1.88 1.90 1.92 1.94

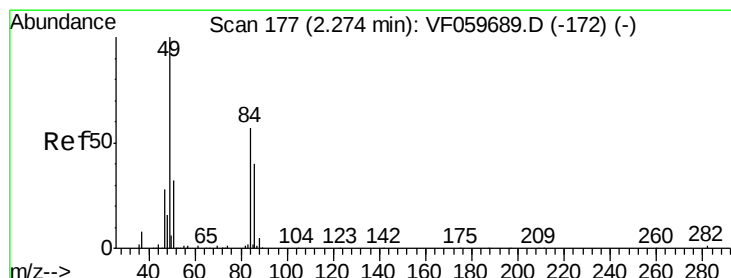
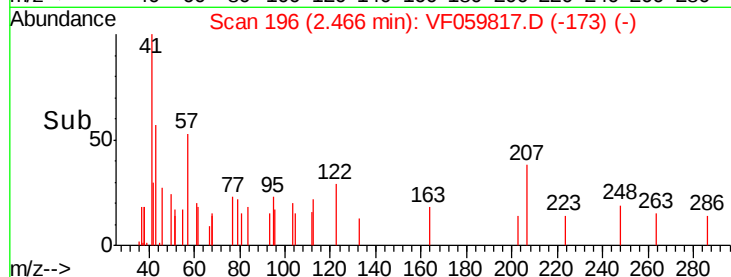
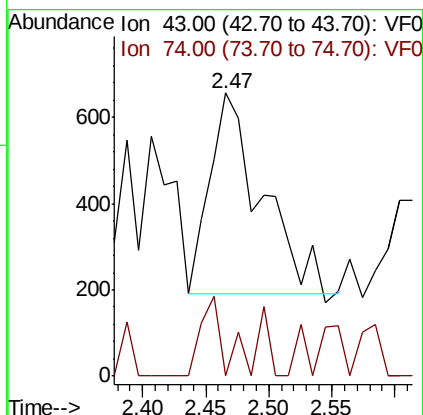
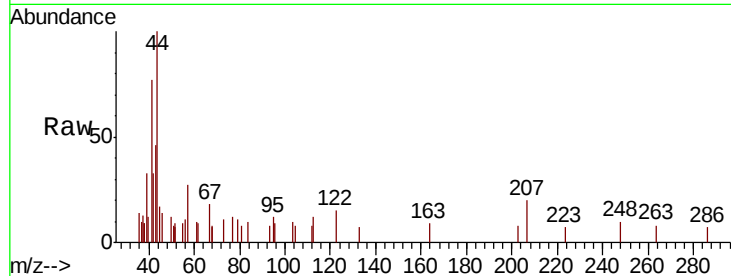




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.47 min Scan# 196  
Delta R.T. 0.03 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

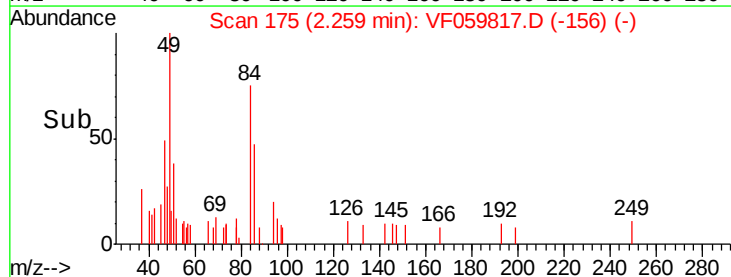
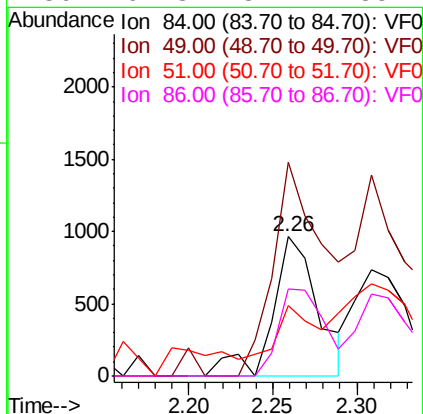
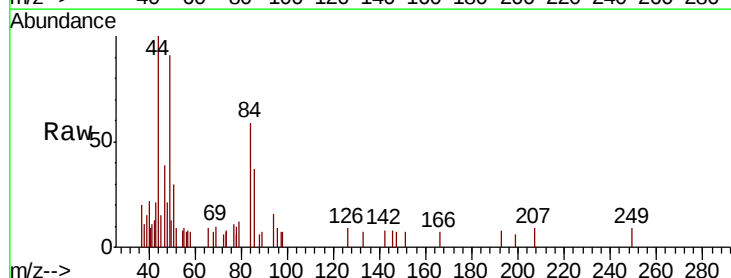
Instrument :  
MSVOA\_F  
ClientSampled :  
UST-N

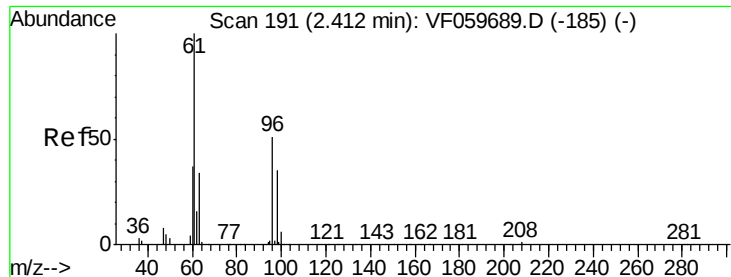
Tot Ion: 43 Resp: 1331  
Ion Ratio Lower Upper  
43 100  
74 0.0 11.8 17.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.26 min Scan# 175  
Delta R.T. -0.01 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion: 84 Resp: 1807  
Ion Ratio Lower Upper  
84 100  
49 153.5 142.2 213.4  
51 50.4 46.2 69.2  
86 62.3 57.1 85.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 2.43 min Scan# 192

Delta R.T. 0.02 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

UST-N

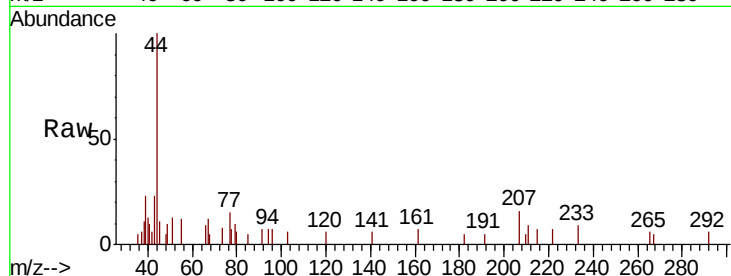
Tot Ion: 96 Resp: 145

Ion Ratio Lower Upper

96 100

61 0.0 157.4 236.0#

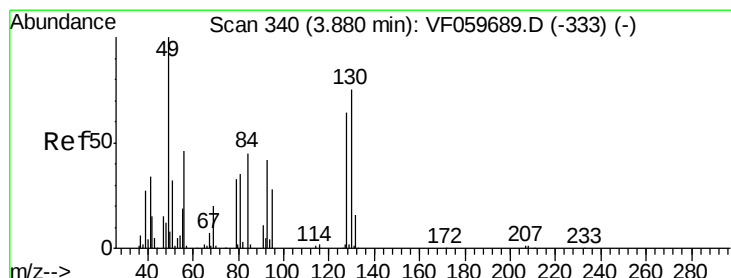
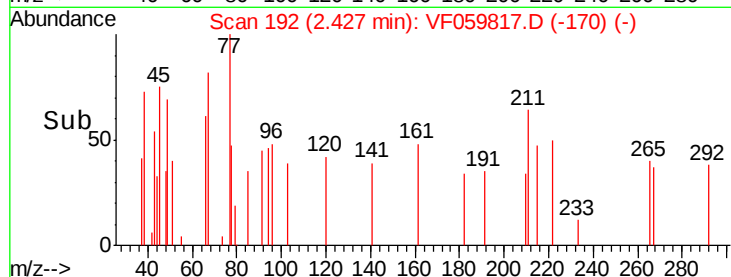
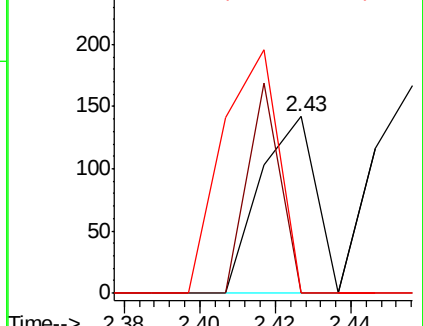
98 0.0 55.0 82.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 3.80 min Scan# 331

Delta R.T. -0.08 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

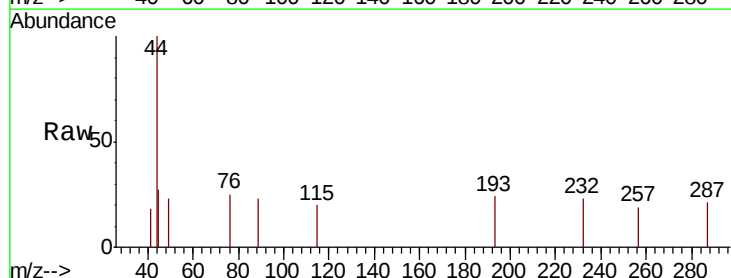
Tgt Ion: 49 Resp: 73

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

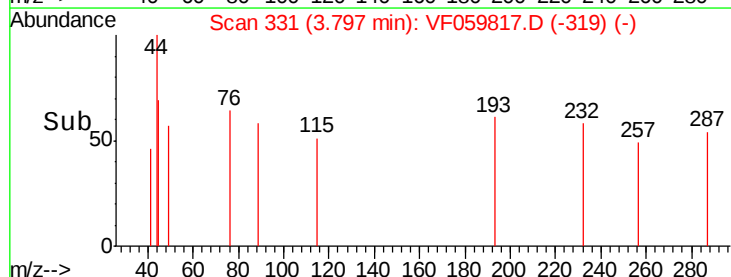
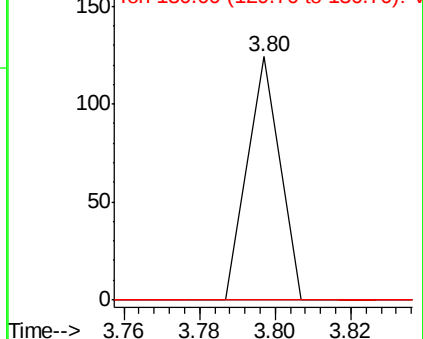
130 0.0 59.6 89.4#

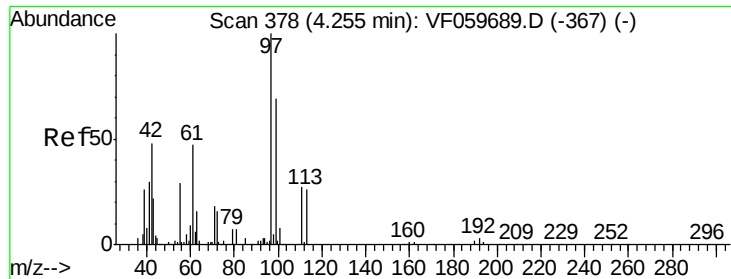


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

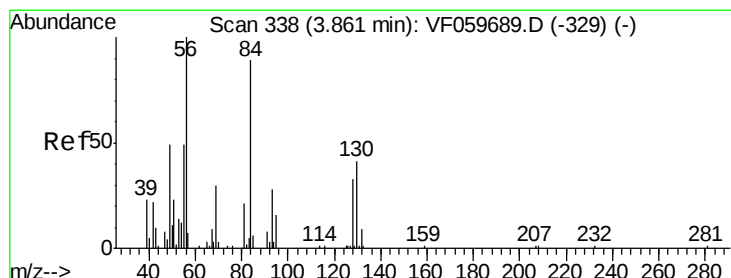
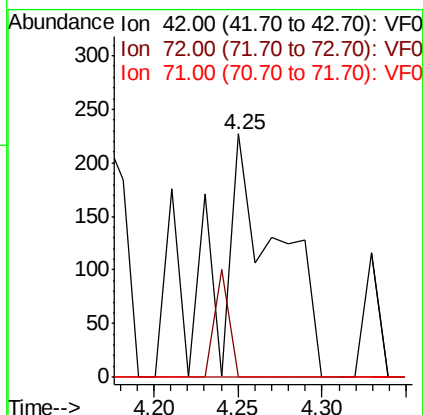
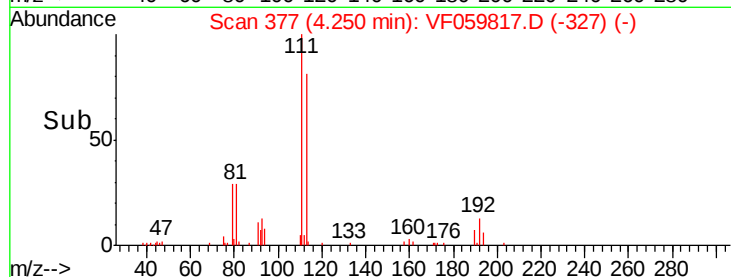
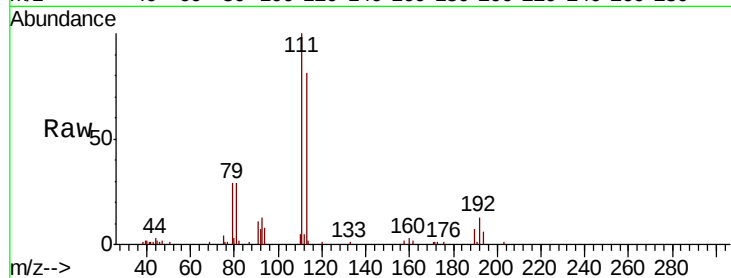




#29  
Tetrahydrofuran  
Concen: 2.117 ug/l  
RT: 4.25 min Scan# 377  
Delta R.T. -0.00 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

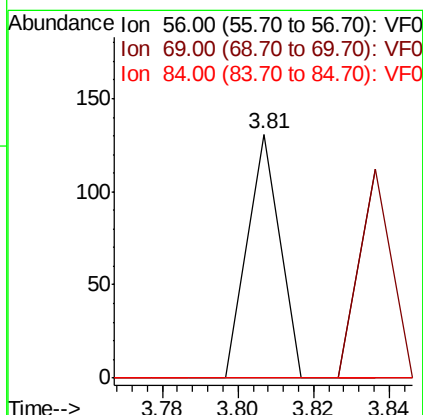
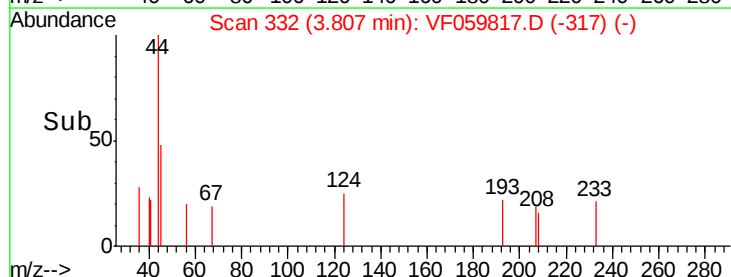
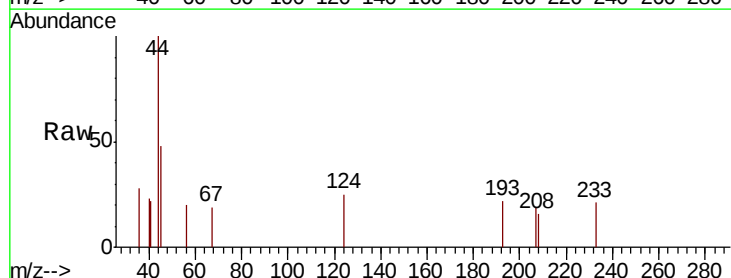
Instrument :  
MSVOA\_F  
ClientSampleId :  
UST-N

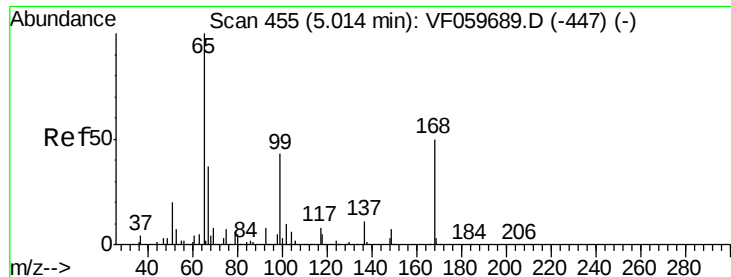
Tot Ion: 42 Resp: 524  
Ion Ratio Lower Upper  
42 100  
72 11.5 27.0 40.6#  
71 0.0 29.7 44.5#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 3.81 min Scan# 332  
Delta R.T. -0.05 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion: 56 Resp: 77  
Ion Ratio Lower Upper  
56 100  
69 0.0 23.7 35.5#  
84 0.0 71.1 106.7#

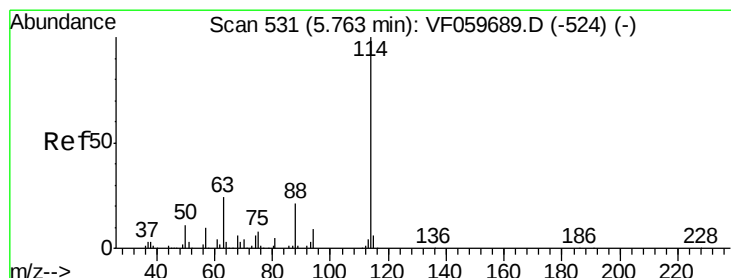
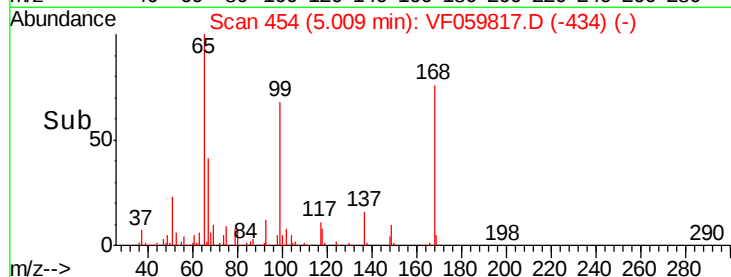
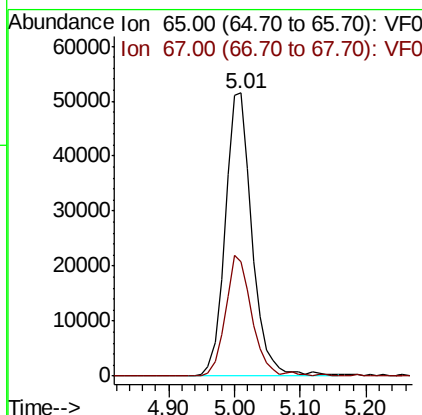
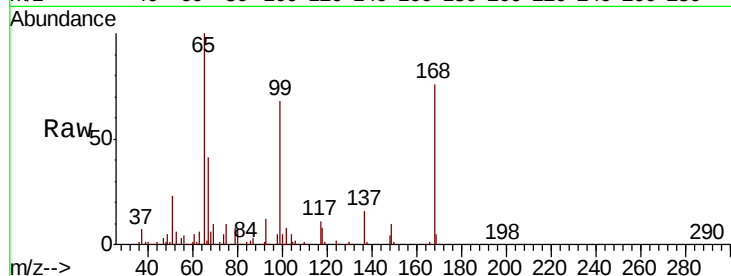




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.709 ug/l  
 RT: 5.01 min Scan# 454  
 Delta R.T. -0.00 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

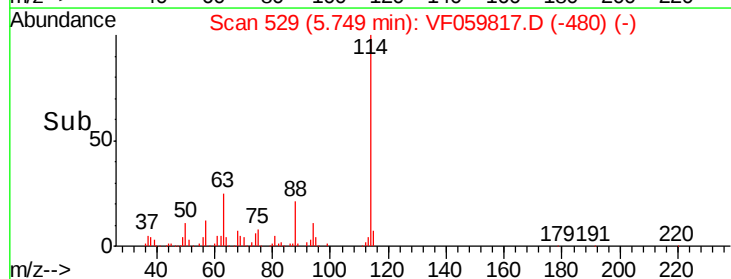
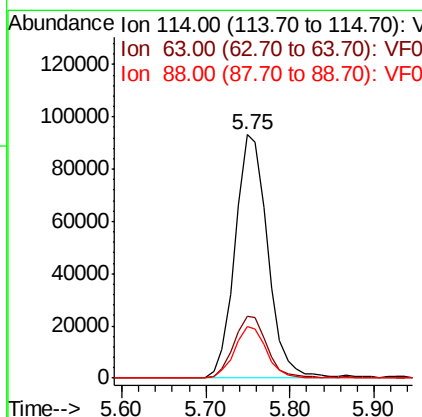
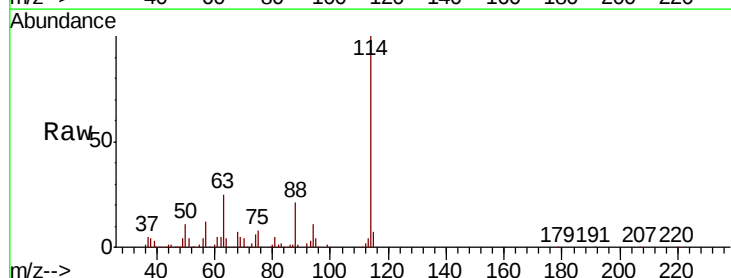
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-N

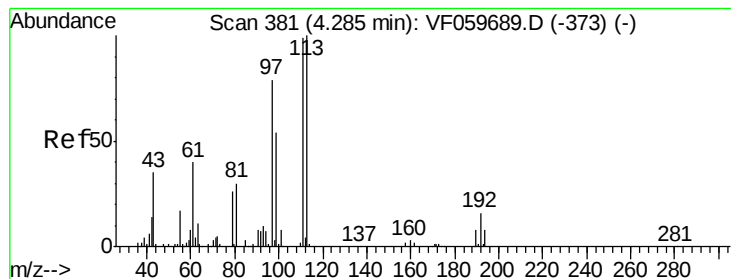
Tot Ion: 65 Resp: 146670  
 Ion Ratio Lower Upper  
 65 100  
 67 40.5 0.0 84.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.75 min Scan# 529  
 Delta R.T. -0.01 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

Tgt Ion: 114 Resp: 252307  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 0.0 47.4  
 88 21.2 0.0 41.2





#35

Dibromofluoromethane

Concen: 44.990 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampled :

UST-N

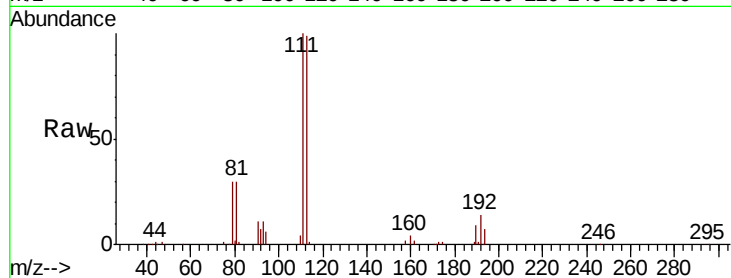
Tot Ion:113 Resp: 117900

Ion Ratio Lower Upper

113 100

111 101.5 79.0 118.4

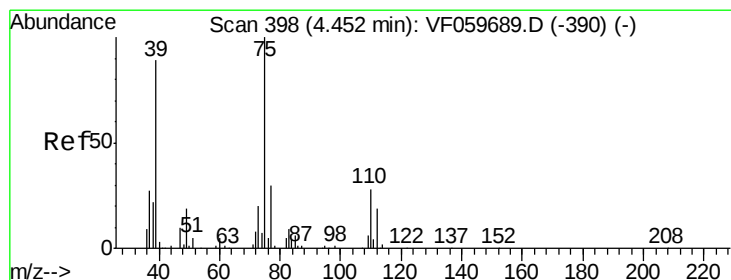
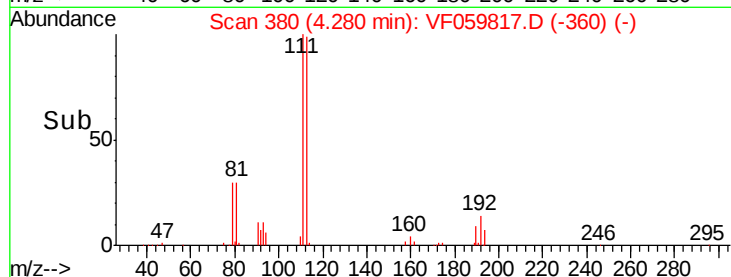
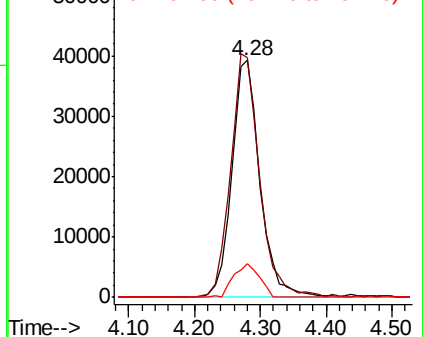
192 14.5 13.2 19.8



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: Below Cal

RT: 4.43 min Scan# 395

Delta R.T. -0.02 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

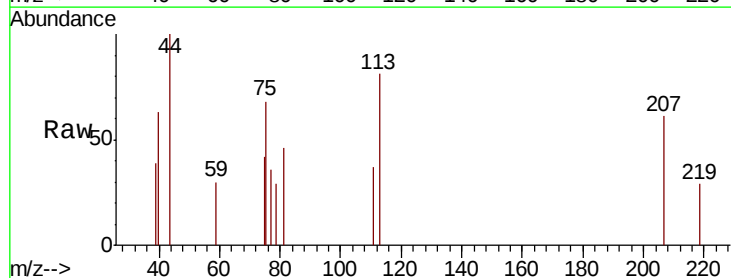
Tgt Ion: 75 Resp: 496

Ion Ratio Lower Upper

75 100

110 34.1 14.0 41.9

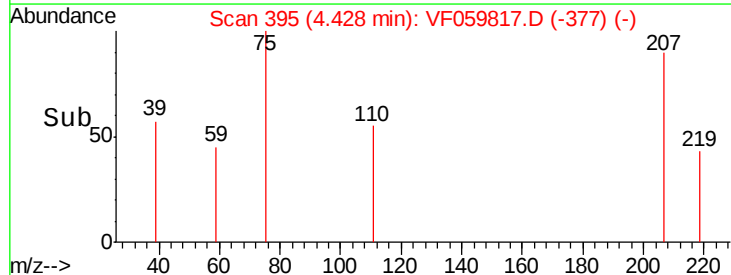
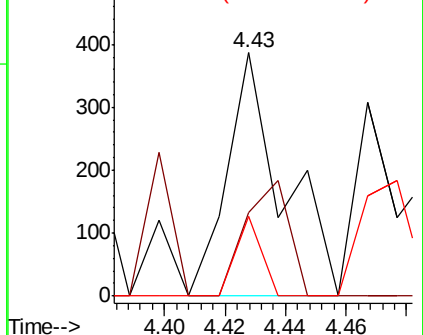
77 32.6 24.2 36.2

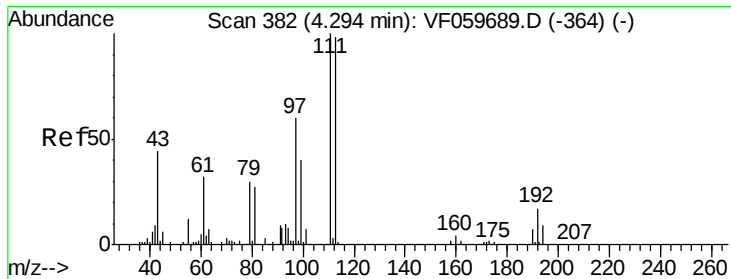


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

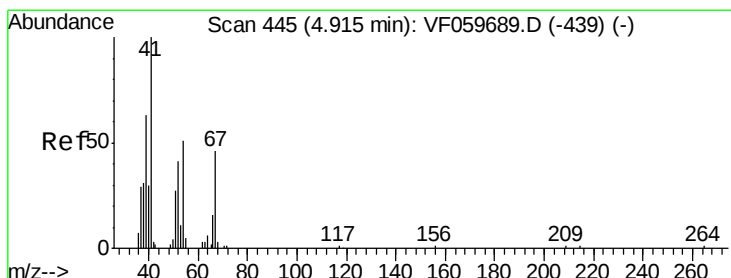
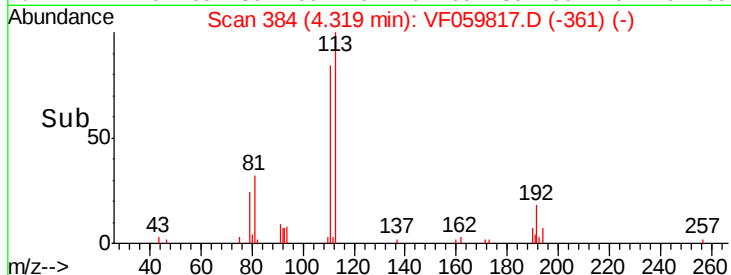
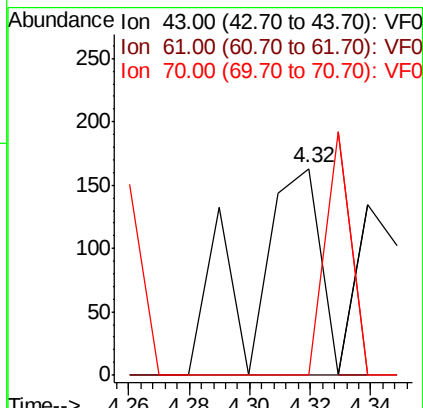
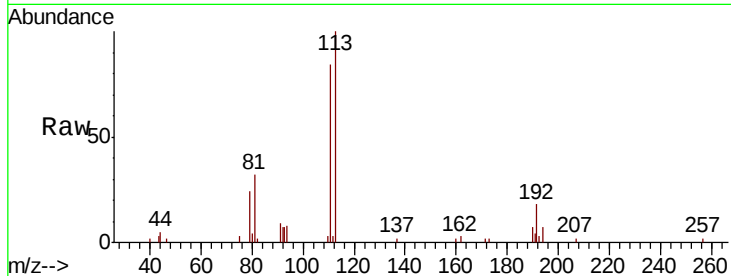




#37  
Ethyl Acetate  
Concen: Below Cal  
RT: 4.32 min Scan# 384  
Delta R.T. 0.03 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

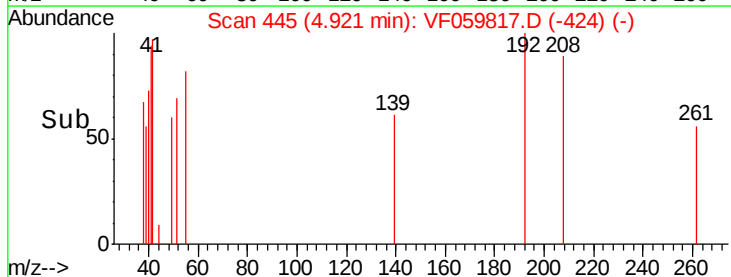
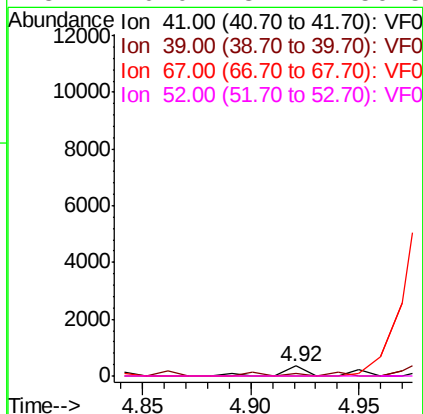
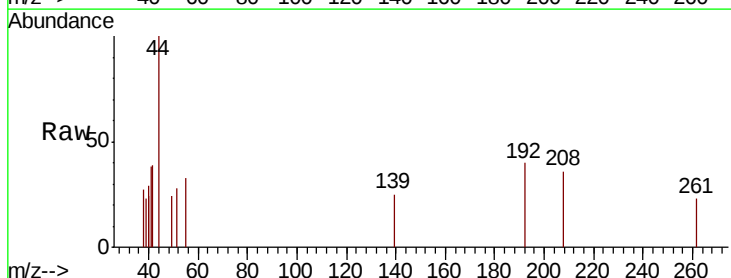
Instrument :  
MSVOA\_F  
ClientSampled :  
UST-N

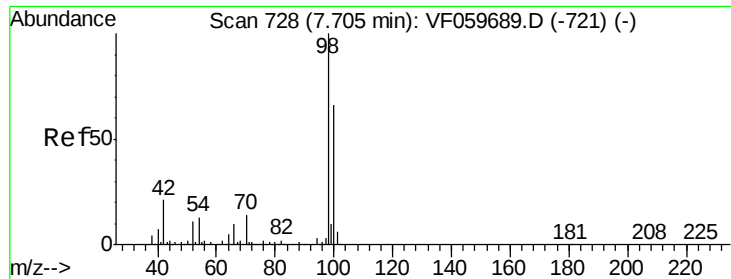
Tot Ion: 43 Resp: 260  
Ion Ratio Lower Upper  
43 100  
61 0.0 58.2 87.2#  
70 0.0 6.0 9.0#



#41  
Methacrylonitrile  
Concen: Below Cal  
RT: 4.92 min Scan# 445  
Delta R.T. 0.01 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion: 41 Resp: 279  
Ion Ratio Lower Upper  
41 100  
39 29.6 55.2 82.8#  
67 0.0 36.2 54.2#  
52 0.0 37.7 56.5#

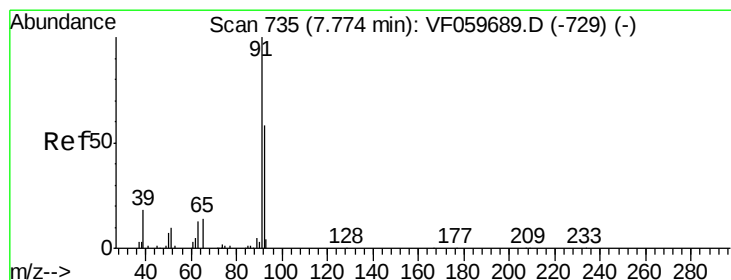
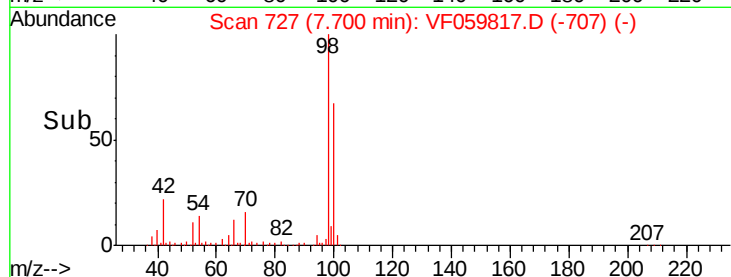
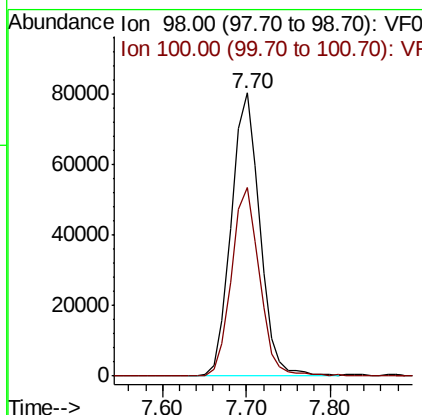
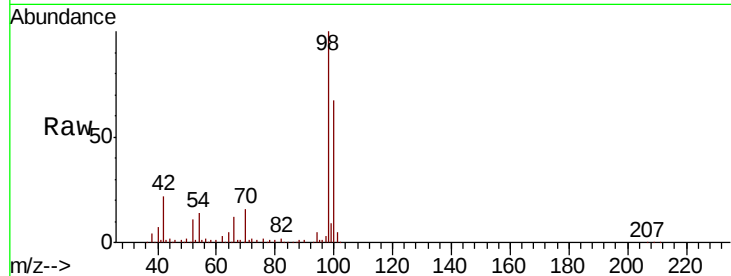




#50  
Toluene-d8  
Concen: 31.065 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. -0.00 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

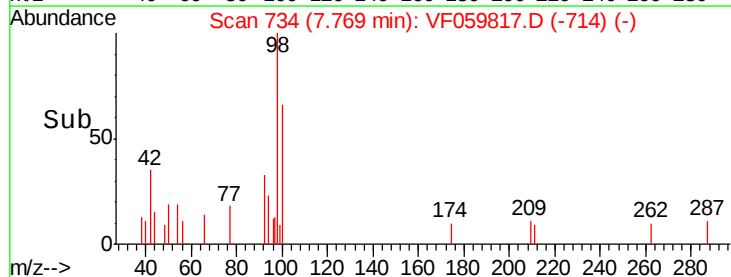
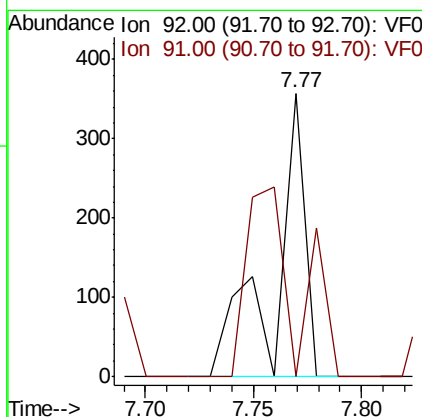
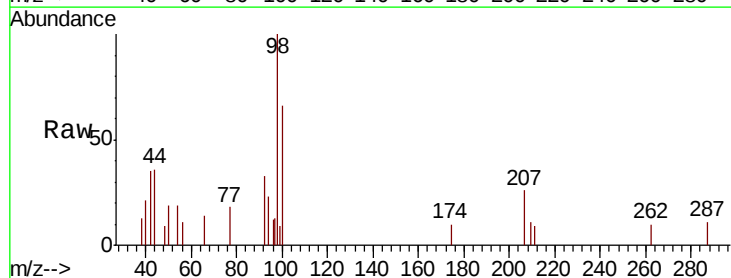
Instrument :  
MSVOA\_F  
ClientSampleId :  
UST-N

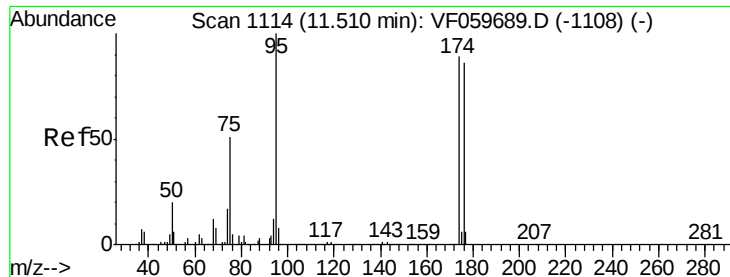
Tot Ion: 98 Resp: 189842  
Ion Ratio Lower Upper  
98 100  
100 66.7 52.8 79.2



#52  
Toluene  
Concen: Below Cal  
RT: 7.77 min Scan# 734  
Delta R.T. -0.00 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion: 92 Resp: 345  
Ion Ratio Lower Upper  
92 100  
91 0.0 139.0 208.4#





#62

4-Bromofluorobenzene

Concen: 29.400 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

UST-N

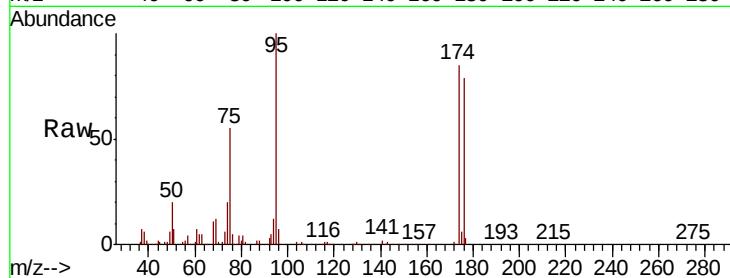
Tot Ion: 95 Resp: 99465

Ion Ratio Lower Upper

95 100

174 85.3 0.0 178.4

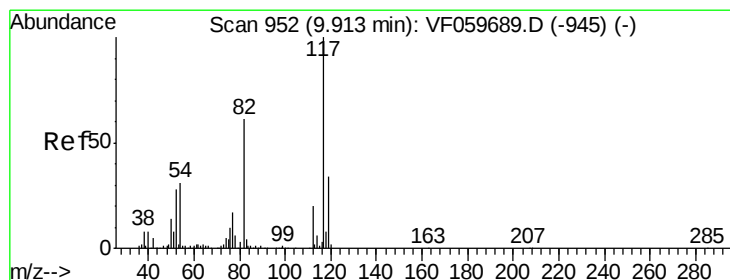
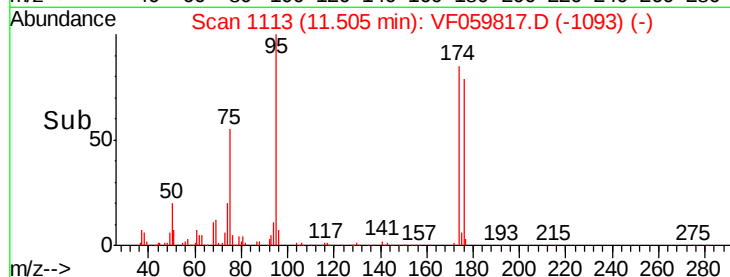
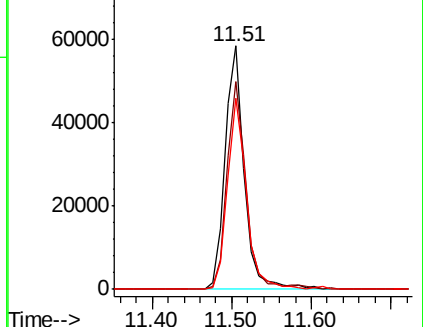
176 78.8 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

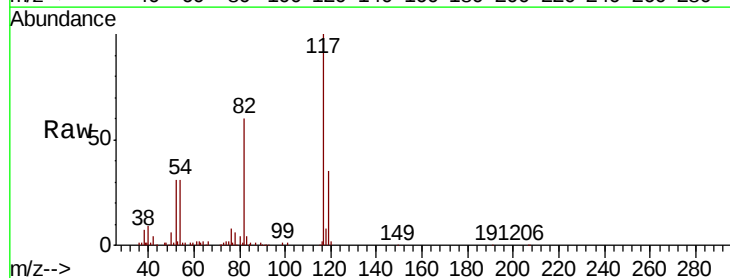
Tgt Ion: 117 Resp: 219709

Ion Ratio Lower Upper

117 100

82 60.0 49.0 73.4

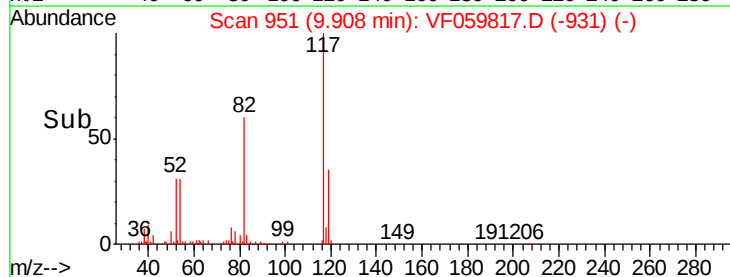
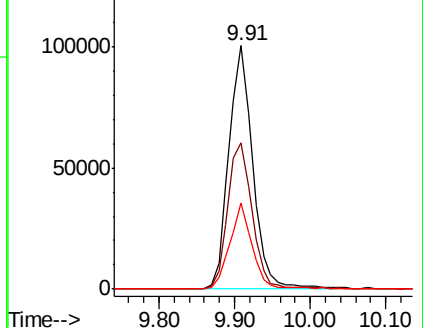
119 35.5 27.3 40.9

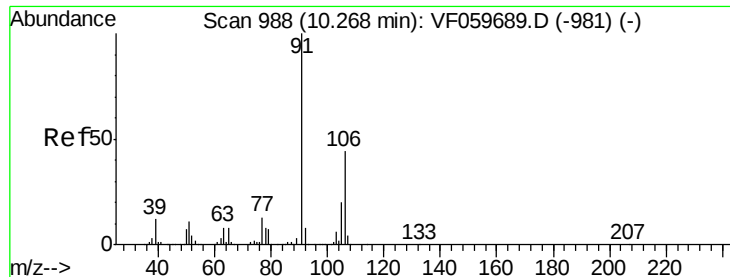


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

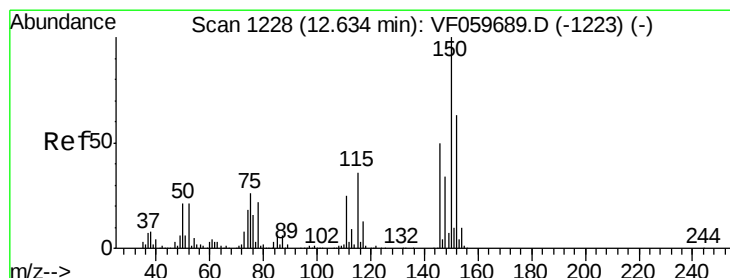
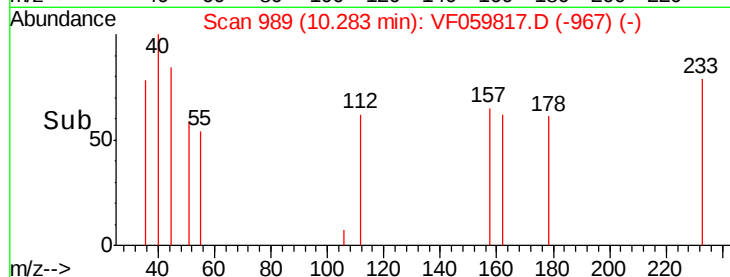
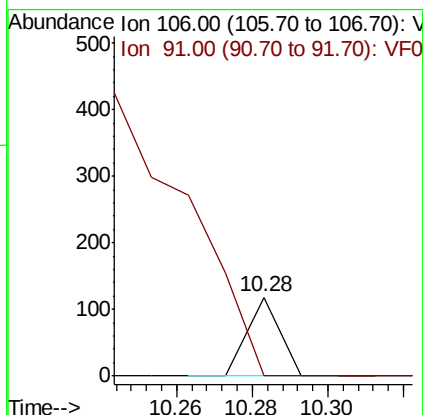
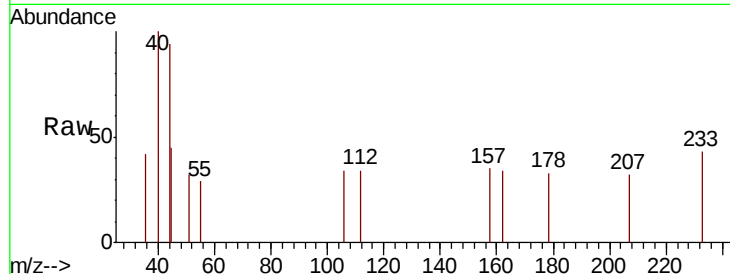




#68  
m/p-Xvlenes  
Concen: Below Cal  
RT: 10.28 min Scan# 989  
Delta R.T. 0.02 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

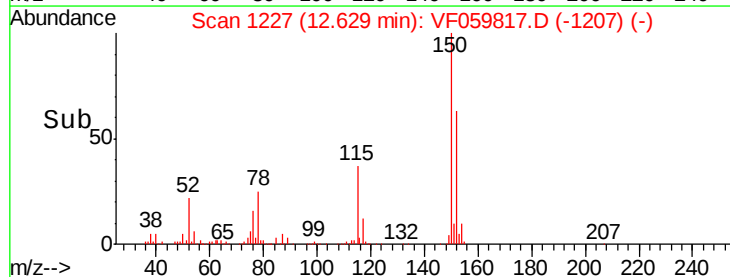
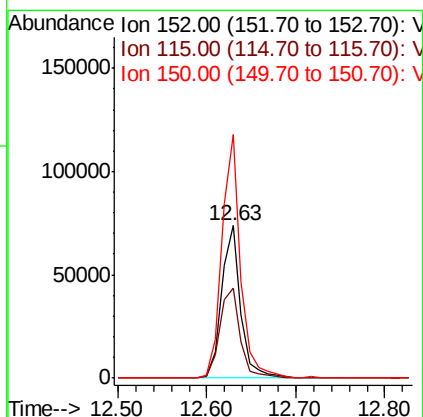
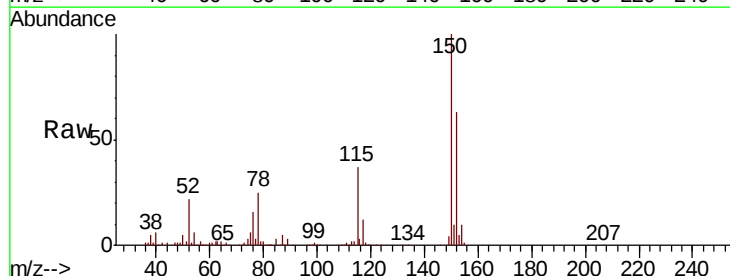
Instrument :  
MSVOA\_F  
ClientSampled :  
UST-N

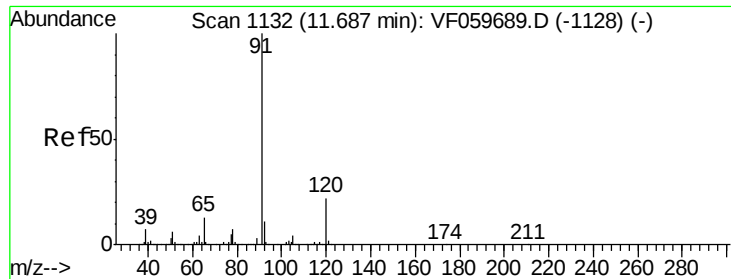
Tot Ion:106 Resp: 70  
Ion Ratio Lower Upper  
106 100  
91 0.0 181.7 272.5#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. -0.00 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion:152 Resp: 111678  
Ion Ratio Lower Upper  
152 100  
115 58.6 28.2 84.6  
150 159.6 0.0 316.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF059817.D

Acq: 2 Aug 2018 22:53

Instrument :

MSVOA\_F

ClientSampleId :

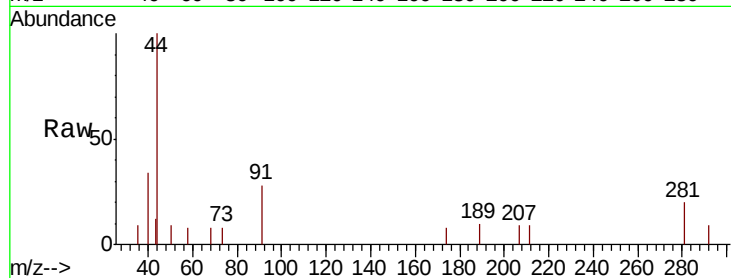
UST-N

Tot Ion: 91 Resp: 406

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.68

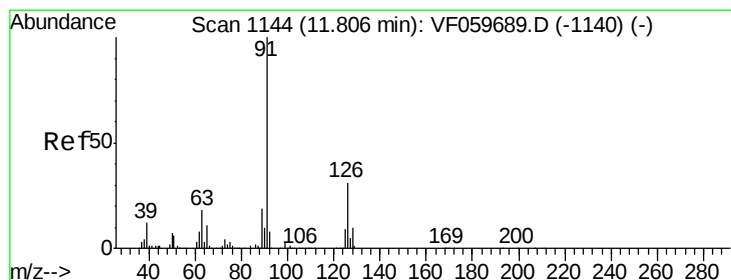
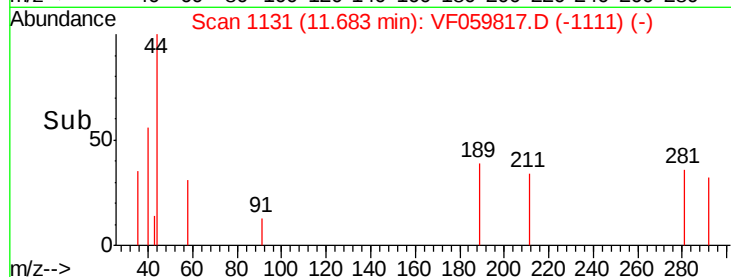
300

200

100

0

Time--> 11.60 11.65 11.70



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.79 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF059817.D

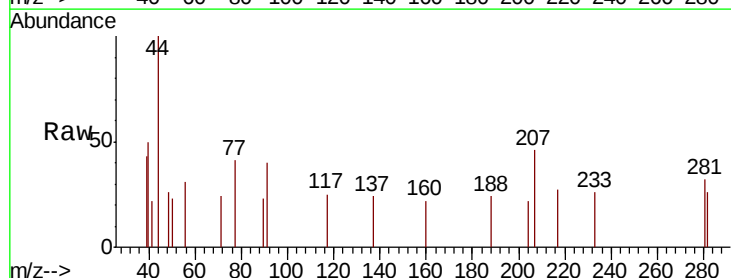
Acq: 2 Aug 2018 22:53

Tgt Ion: 91 Resp: 196

Ion Ratio Lower Upper

91 100

126 0.0 15.4 46.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.79

200

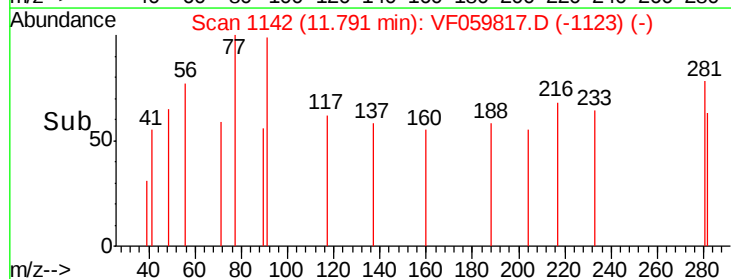
150

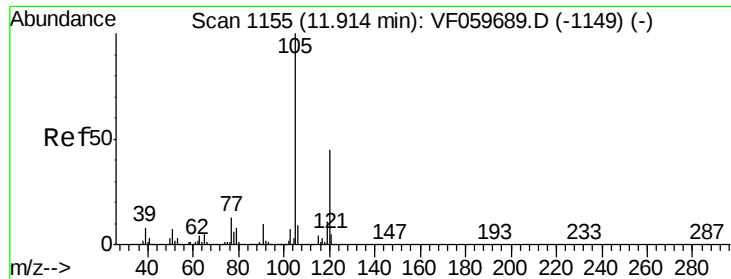
100

50

0

Time--> 11.75 11.80

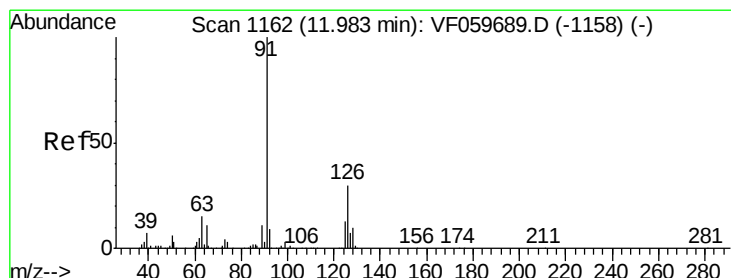
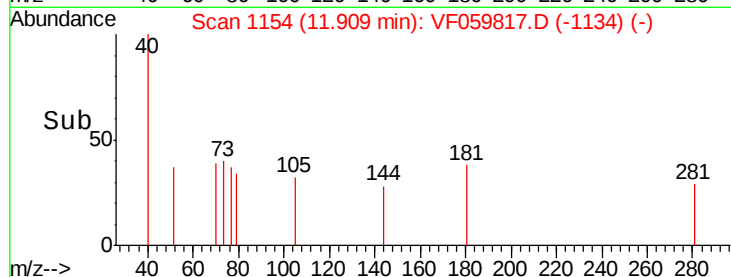
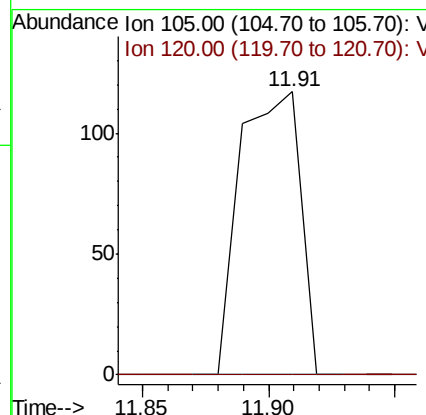
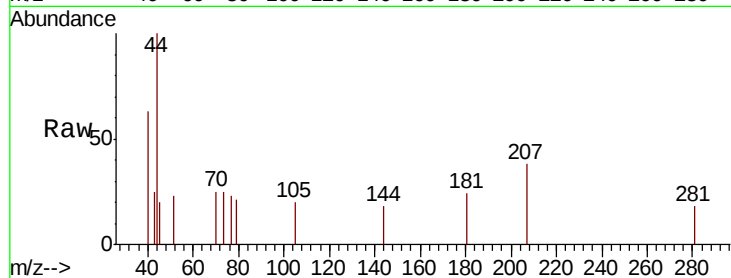




#80  
 1,3,5-Trimethylbenzene  
 Concen: Below Cal  
 RT: 11.91 min Scan# 1154  
 Delta R.T. -0.00 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

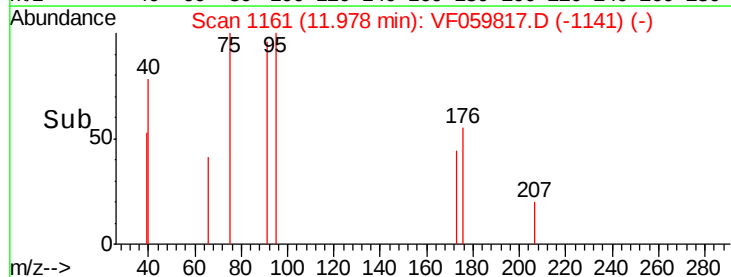
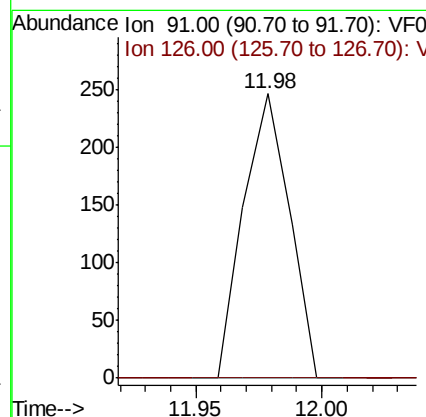
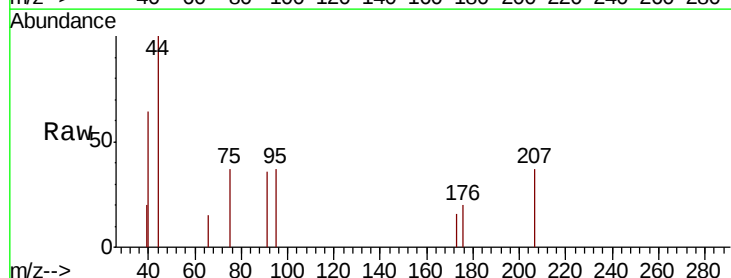
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-N

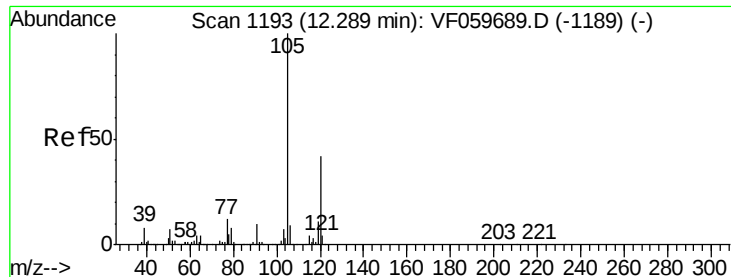
Tot Ion: 105 Resp: 195  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.7 68.0#



#82  
 4-Chlorotoluene  
 Concen: Below Cal  
 RT: 11.98 min Scan# 1161  
 Delta R.T. -0.00 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

Tgt Ion: 91 Resp: 311  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 15.2 45.6#

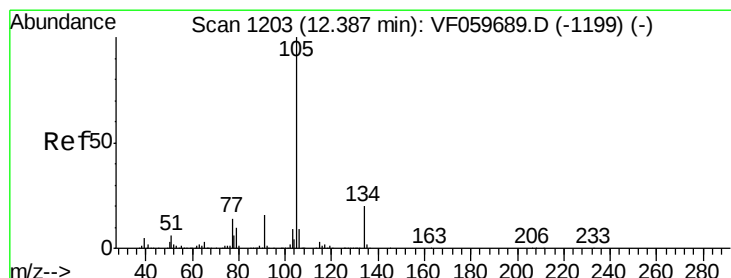
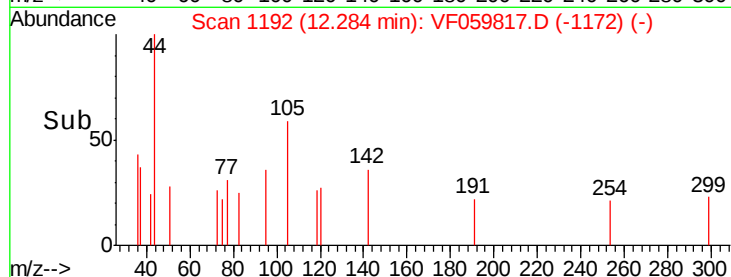
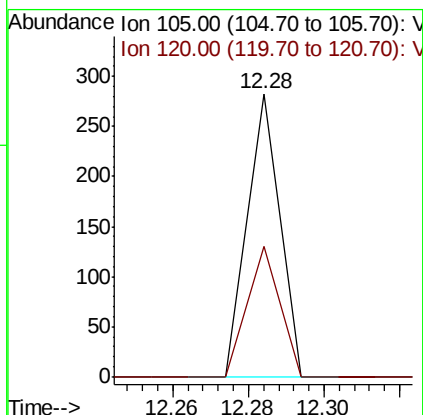
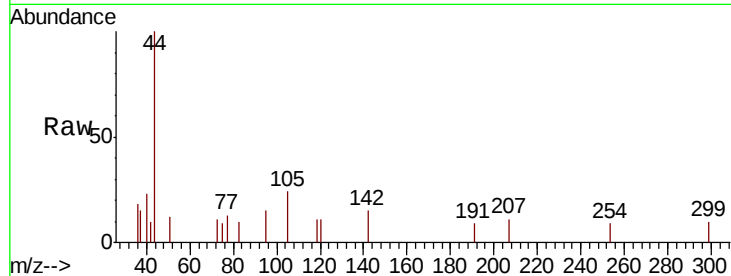




#84  
1,2,4-Trimethylbenzene  
Concen: Below Cal  
RT: 12.28 min Scan# 1192  
Delta R.T. -0.00 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

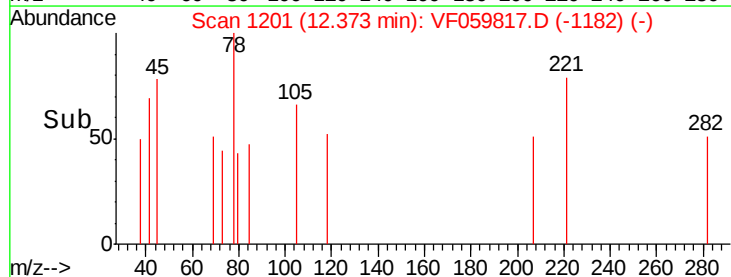
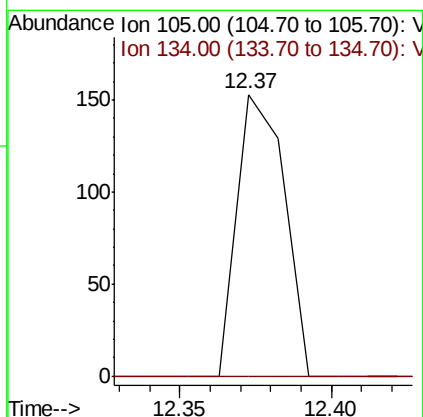
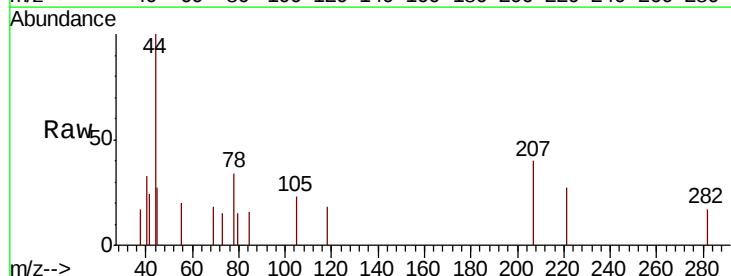
Instrument :  
MSVOA\_F  
ClientSampled :  
UST-N

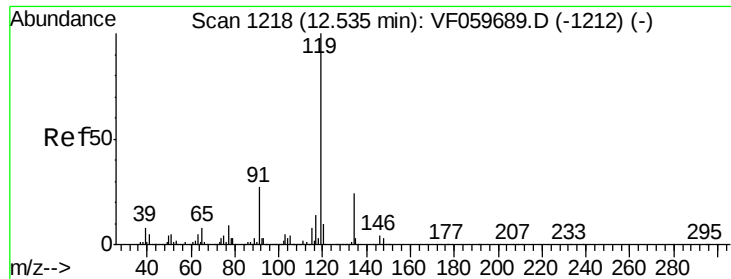
Tot Ion:105 Resp: 167  
Ion Ratio Lower Upper  
105 100  
120 45.9 21.1 63.3



#85  
sec-Butylbenzene  
Concen: Below Cal  
RT: 12.37 min Scan# 1201  
Delta R.T. -0.01 min  
Lab File: VF059817.D  
Acq: 2 Aug 2018 22:53

Tgt Ion:105 Resp: 167  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.8 29.3#

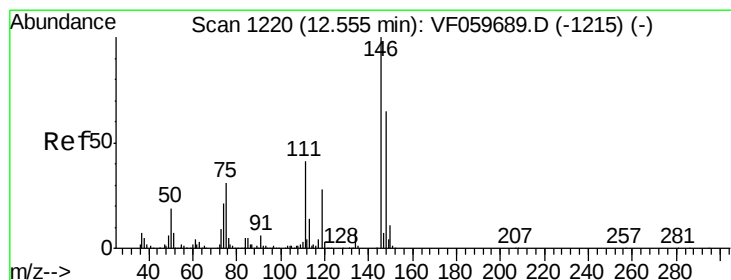
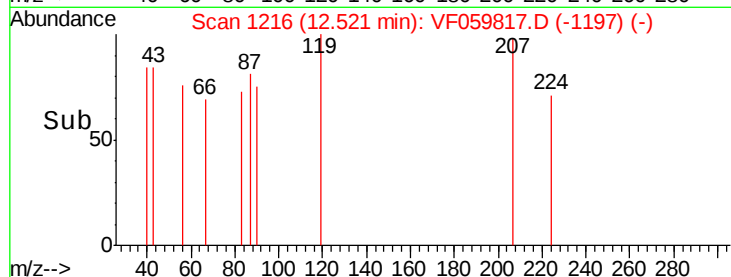
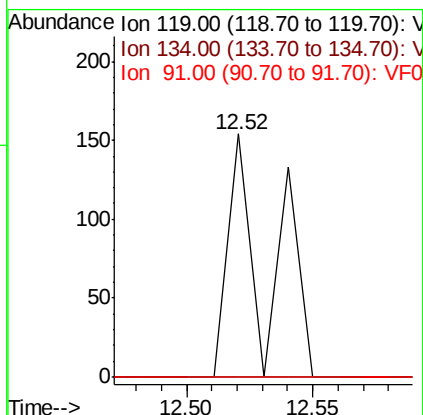
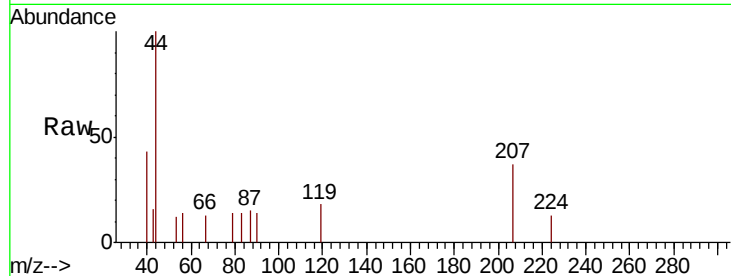




#86  
 p-Isopropyltoluene  
 Concen: Below Cal  
 RT: 12.52 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

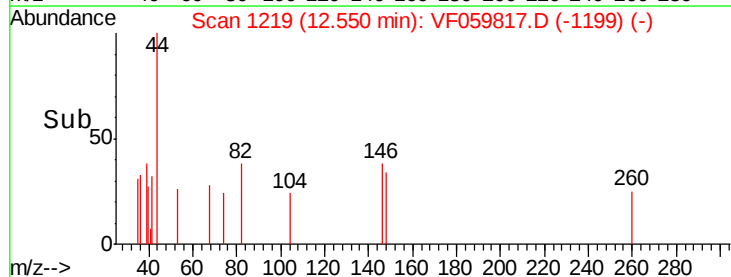
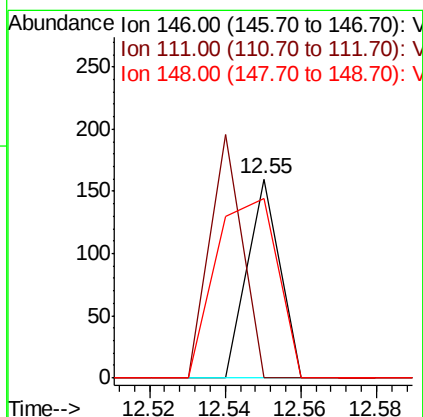
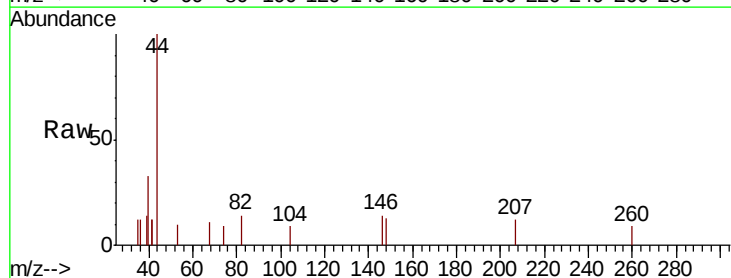
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 UST-N

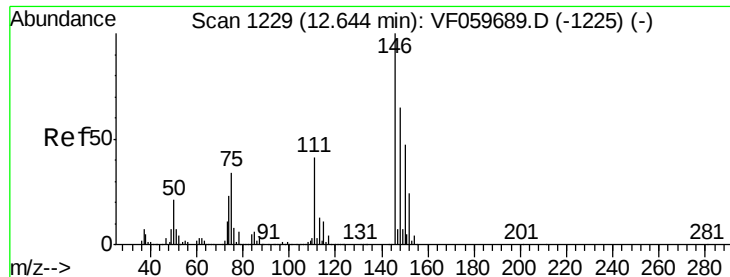
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 0.0   | 12.2  | 36.6# |
| 91      | 0.0   | 13.4  | 40.2# |



#87  
 1,3-Dichlorobenzene  
 Concen: Below Cal  
 RT: 12.55 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 20.7  | 62.1# |
| 148     | 90.0  | 32.3  | 96.8  |

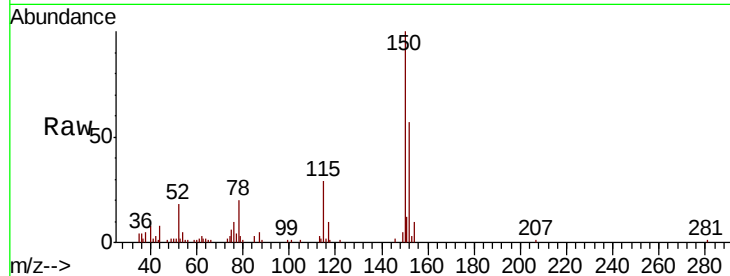




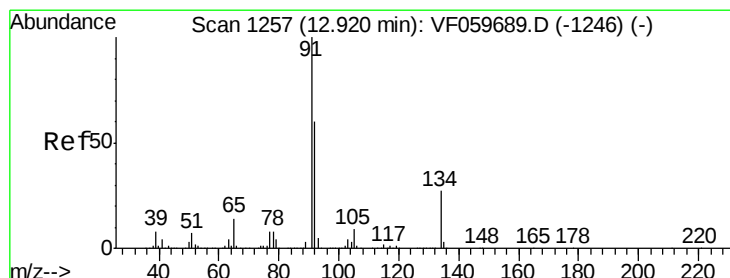
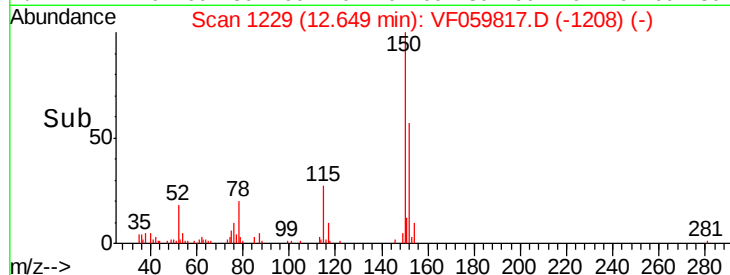
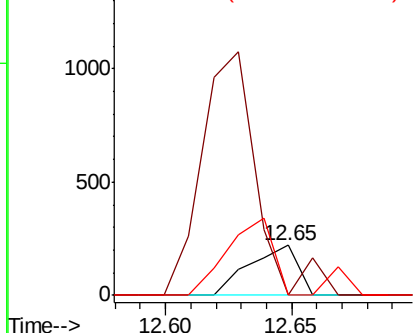
#88  
 1,4-Dichlorobenzene  
 Concen: Below Cal  
 RT: 12.65 min Scan# 1229  
 Delta R.T. 0.01 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 UST-N

Tot Ion:146 Resp: 297  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 20.8 62.2#  
 148 0.0 32.3 96.9#

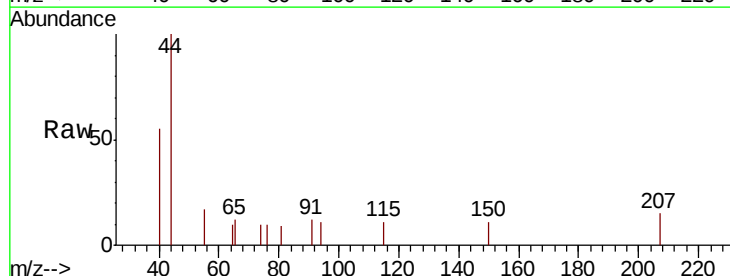


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

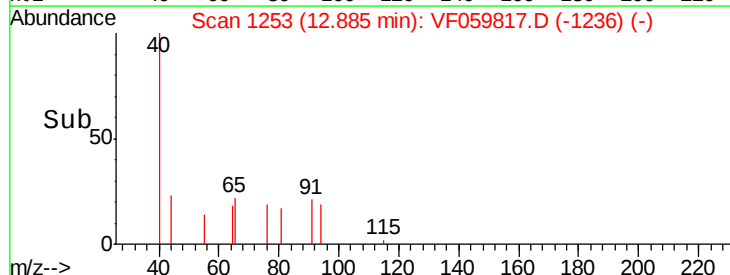
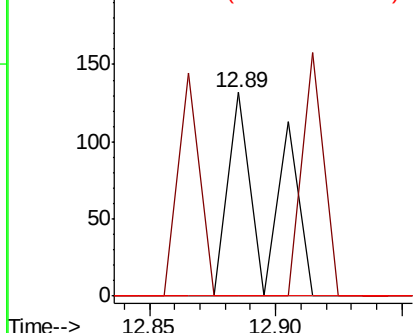


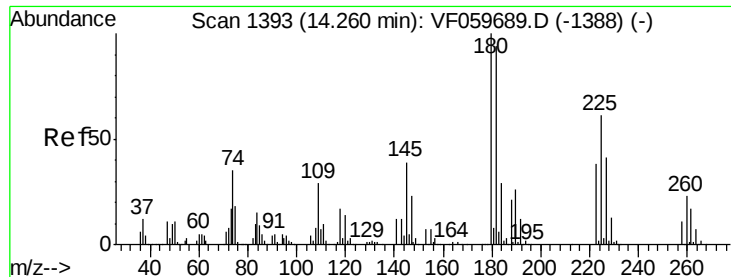
#89  
 n-Butylbenzene  
 Concen: Below Cal  
 RT: 12.89 min Scan# 1253  
 Delta R.T. -0.03 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

Tgt Ion: 91 Resp: 145  
 Ion Ratio Lower Upper  
 91 100  
 92 0.0 30.1 90.3#  
 134 0.0 13.7 41.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0  
 Ion 92.00 (91.70 to 92.70): VF0  
 Ion 134.00 (133.70 to 134.70): V

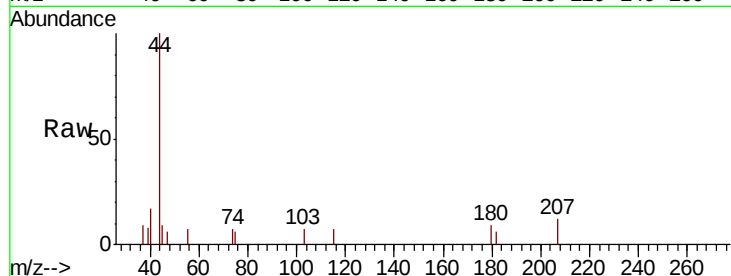




#93  
 1,2,4-Trichlorobenzene  
 Concen: Below Cal  
 RT: 14.27 min Scan# 1393  
 Delta R.T. 0.01 min  
 Lab File: VF059817.D  
 Acq: 2 Aug 2018 22:53

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 UST-N

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 66.7  | 47.2  | 141.6 |
| 145     | 0.0   | 19.3  | 57.9# |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

