

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\  
 Data File : VF062427.D  
 Acq On : 10 May 2019 16:59  
 Operator : FY/SY  
 Sample : K2645-03RE  
 Misc : 6.71g/5mL/MSVOA F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-02-050719-BRE

Quant Time: May 10 17:20:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 35086    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 27978    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 13478    | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 3139     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 5270     | 15.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 31.78% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 8266     | 37.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.16% |          |
| 50) Toluene-d8              | 7.71  | 98   | 24359    | 45.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.30% |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 4945     | 20.31 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 40.62% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.45  | 94   | 210      | Below Cal | #      | 3      |
| 11) Tert butyl alcohol         | 2.69  | 59   | 87       | 4.643     | ug/l # | 70     |
| 13) Acrolein                   | 2.05  | 56   | 137      | Below Cal | #      | 13     |
| 14) Allyl chloride             | 2.22  | 41   | 587      | 2.470     | ug/l # | 85     |
| 15) Acrylonitrile              | 3.07  | 53   | 88       | 2.479     | ug/l # | 1      |
| 16) Acetone                    | 2.34  | 43   | 1886     | 28.118    | ug/l # | 81     |
| 18) Methyl Acetate             | 2.51  | 43   | 3307     | 25.500    | ug/l # | 71     |
| 19) Methyl tert-butyl Ether    | 2.55  | 73   | 607      | 1.093     | ug/l # | 61     |
| 20) Methylene Chloride         | 2.31  | 84   | 724      | 2.983     | ug/l # | 39     |
| 21) trans-1,2-Dichloroethene   | 2.44  | 96   | 360      | 1.405     | ug/l # | 1      |
| 23) Vinyl Acetate              | 3.36  | 43   | 351      | 1.060     | ug/l # | 79     |
| 25) 2-Butanone                 | 4.53  | 43   | 730      | 8.663     | ug/l # | 60     |
| 26) 2,2-Dichloropropane        | 3.67  | 77   | 268      | 1.069     | ug/l   | 84     |
| 29) Tetrahydrofuran            | 4.28  | 42   | 67       | 1.730     | ug/l # | 21     |
| 37) Ethyl Acetate              | 4.36  | 43   | 412      | Below Cal | #      | 85     |
| 38) Carbon Tetrachloride       | 4.17  | 117  | 66       | Below Cal | #      | 14     |
| 41) Methacrylonitrile          | 4.92  | 41   | 314      | 5.449     | ug/l # | 41     |
| 43) Isopropyl Acetate          | 7.14  | 43   | 495      | 4.528     | ug/l # | 88     |
| 48) Methyl methacrylate        | 6.88  | 41   | 225      | 2.912     | ug/l # | 1      |
| 49) 1,4-Dioxane                | 6.91  | 88   | 60       | 63.274    | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 173      | 2.088     | ug/l # | 40     |
| 58) 2-Chloroethyl Vinyl ether  | 7.32  | 63   | 95       | 2.888     | ug/l # | 42     |
| 59) 2-Hexanone                 | 9.60  | 43   | 468      | 8.169     | ug/l # | 28     |
| 70) Styrene                    | 10.88 | 104  | 290      | 1.243     | ug/l # | 53     |
| 71) Bromoform                  | 10.88 | 173  | 138      | 2.239     | ug/l # | 29     |
| 73) Isopropylbenzene           | 11.23 | 105  | 348      | 1.870     | ug/l # | 50     |
| 74) N-amyl acetate             | 11.43 | 43   | 209      | 5.231     | ug/l # | 38     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.75 | 83   | 90       | 3.089     | ug/l # | 22     |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 138      | 6.208     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 11.98 | 75   | 62       | 7.420     | ug/l # | 17     |
| 83) tert-Butylbenzene          | 12.19 | 119  | 178      | 1.038     | ug/l # | 35     |
| 90) Hexachloroethane           | 12.99 | 117  | 60       | 1.240     | ug/l # | 3      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.68 | 75   | 80       | 12.256    | ug/l # | 1      |

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

Quant Time: May 10 17:20:47 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

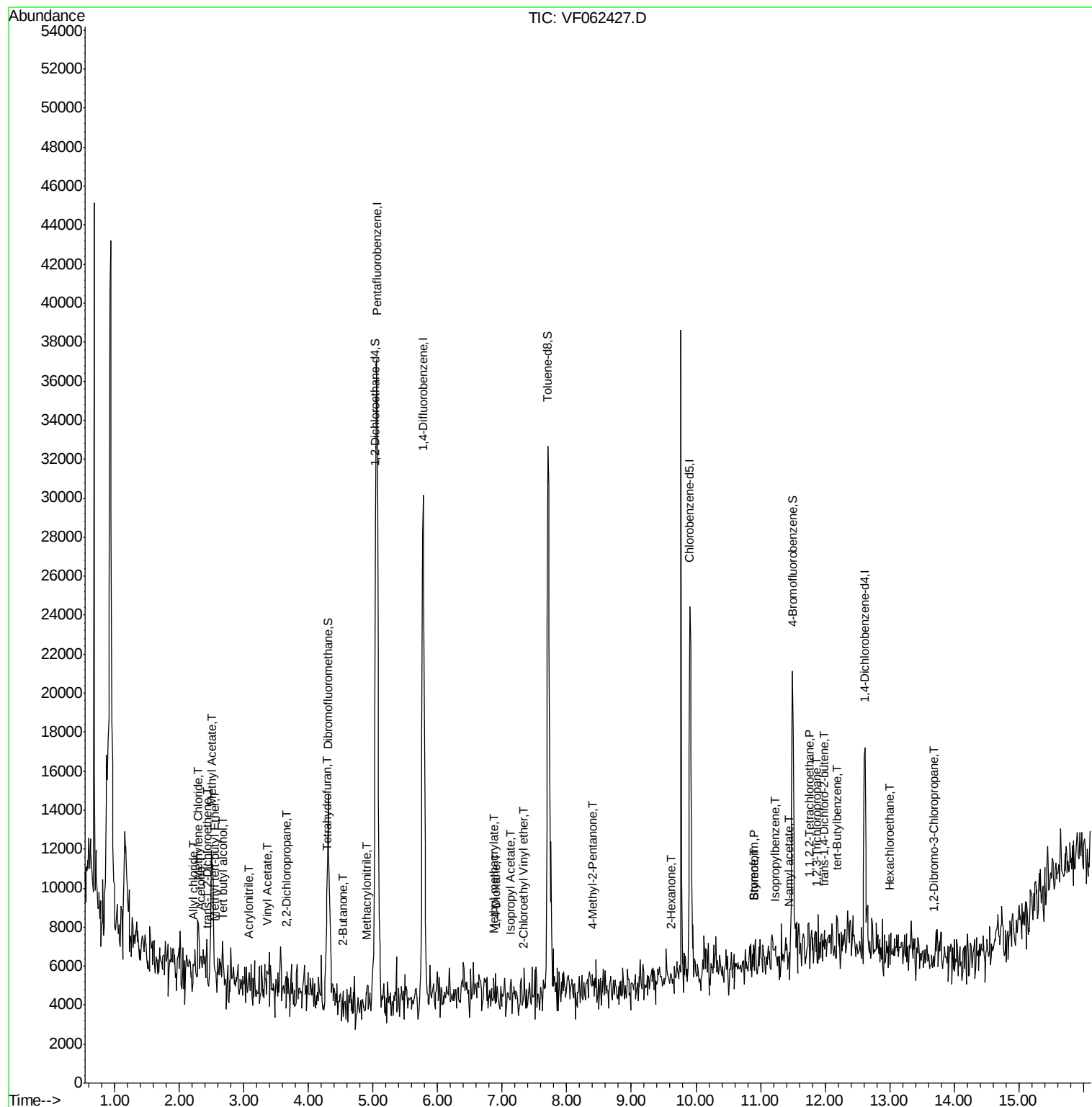
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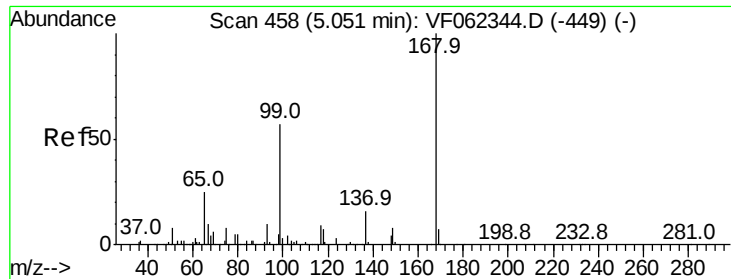
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

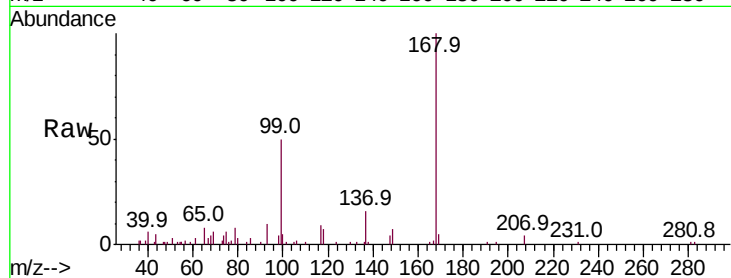
PL-02-050719-BRE

Tot Ion:168 Resp: 35086

Ion Ratio Lower Upper

168 100

99 50.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

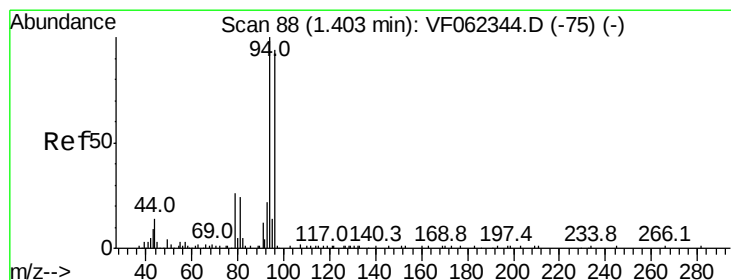
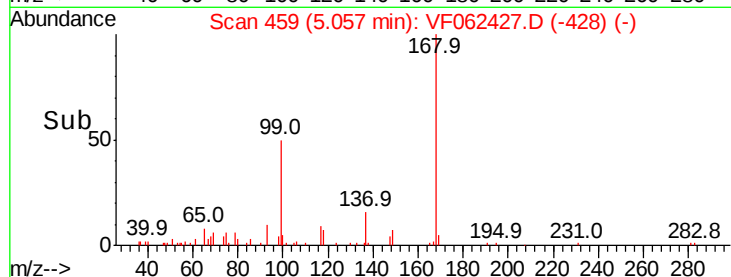
5.06

10000

5000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.45 min Scan# 93

Delta R.T. 0.05 min

Lab File: VF062427.D

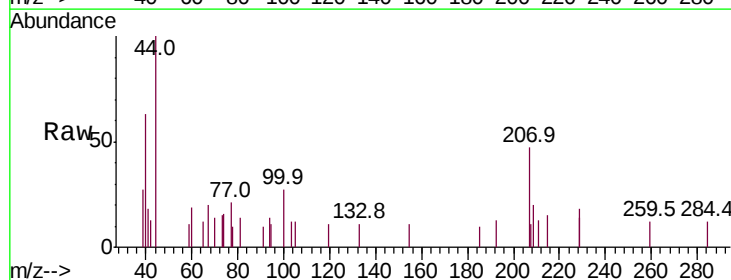
Acq: 10 May 2019 16:59

Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.45

250

200

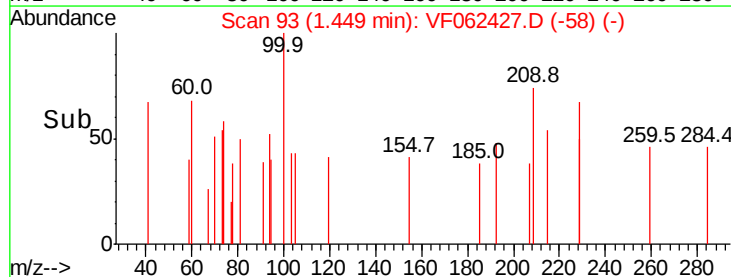
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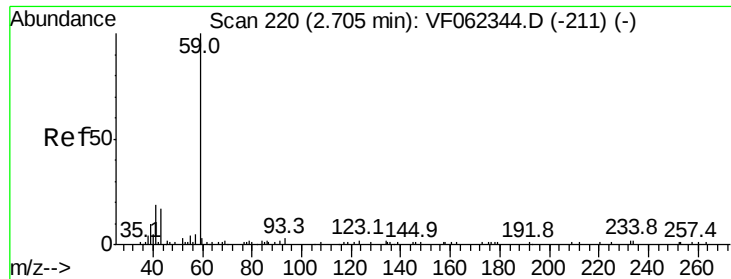
100

50

0

Time--> 1.40 1.42 1.44 1.46 1.48



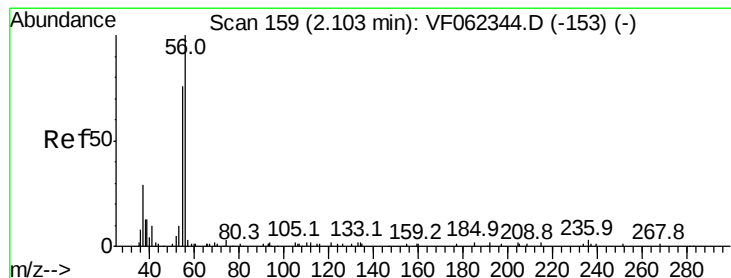
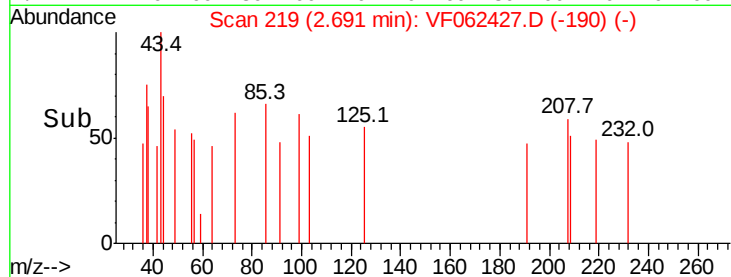
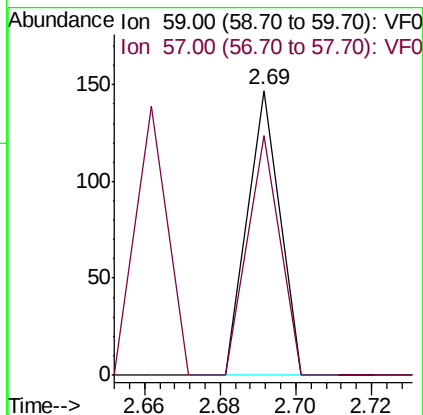
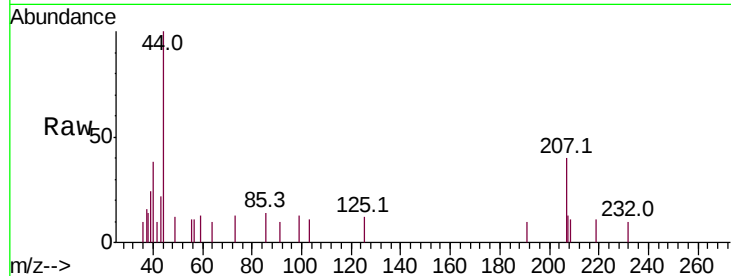


#11

Tert butyl alcohol  
 Concen: 4.643 ug/l  
 RT: 2.69 min Scan# 219  
 Delta R.T. -0.01 min  
 Lab File: VF062427.D  
 Acq: 10 May 2019 16:59

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-02-050719-BRE

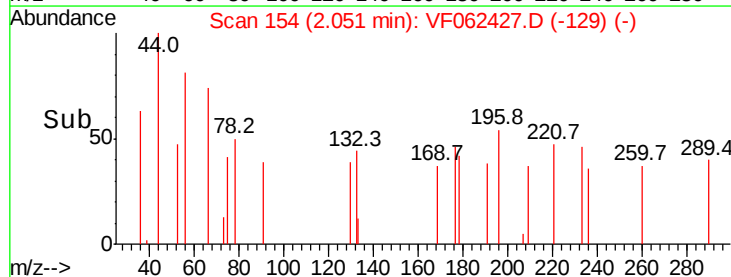
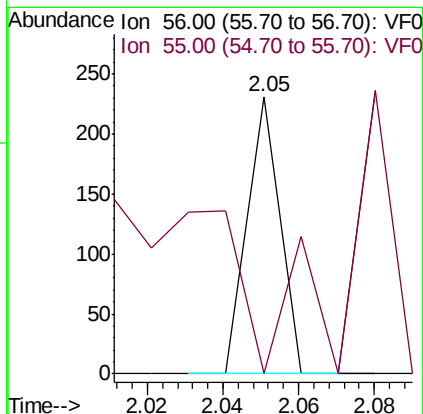
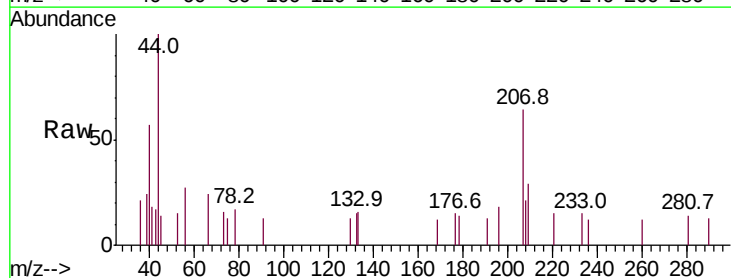
Tot Ion: 59 Resp: 87  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 9.3 13.9#

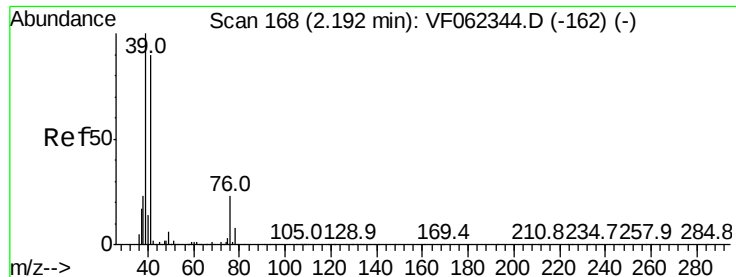


#13

Acrolein  
 Concen: Below Cal  
 RT: 2.05 min Scan# 154  
 Delta R.T. -0.05 min  
 Lab File: VF062427.D  
 Acq: 10 May 2019 16:59

Tgt Ion: 56 Resp: 137  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 58.4 87.6#

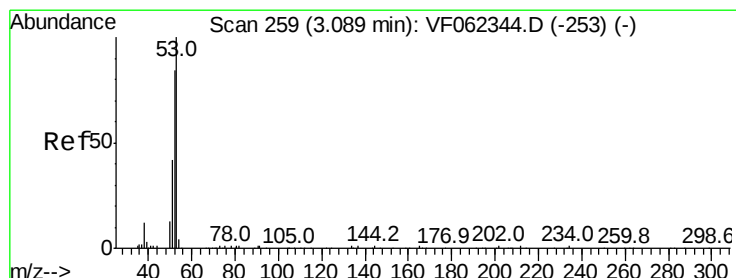
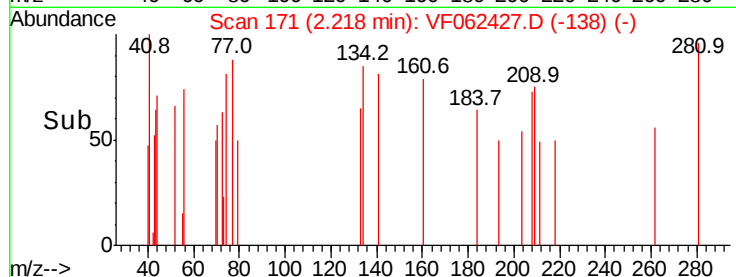
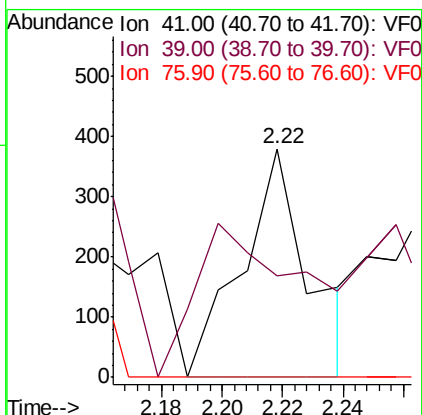
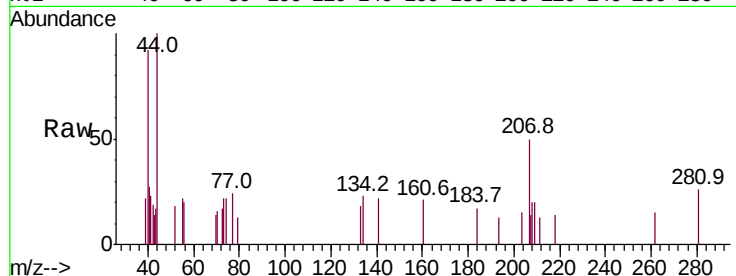




#14  
Allvl chloride  
Concen: 2.470 ug/l  
RT: 2.22 min Scan# 171  
Delta R.T. 0.03 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

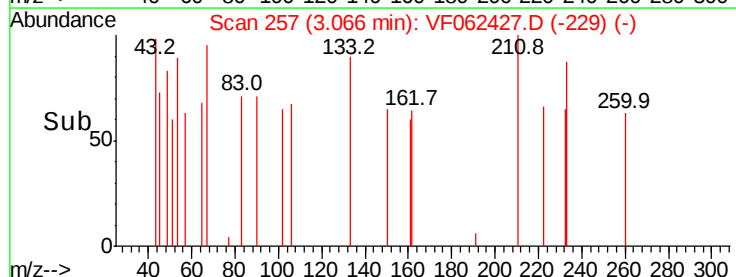
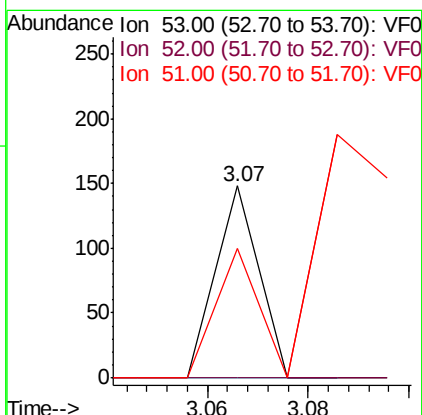
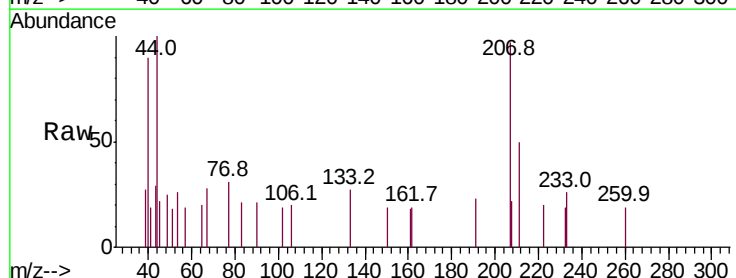
Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

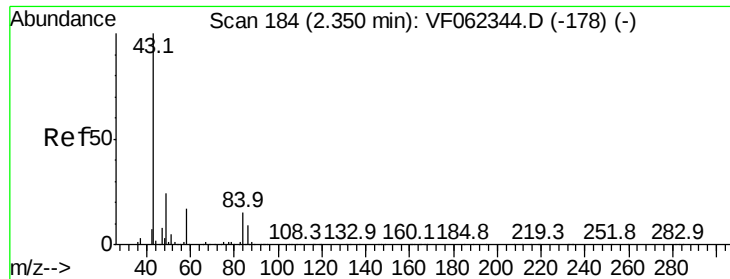
Tot Ion: 41 Resp: 587  
Ion Ratio Lower Upper  
41 100  
39 107.2 90.8 136.2  
76 0.0 22.2 33.4#



#15  
Acrylonitrile  
Concen: 2.479 ug/l  
RT: 3.07 min Scan# 257  
Delta R.T. -0.02 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Tgt Ion: 53 Resp: 88  
Ion Ratio Lower Upper  
53 100  
52 0.0 77.2 115.8#  
51 365.9 40.6 61.0#





#16

Acetone

Concen: 28.118 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

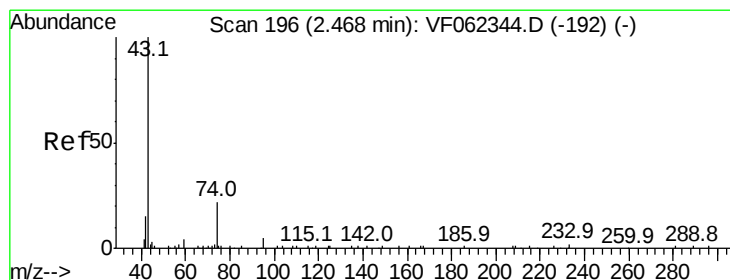
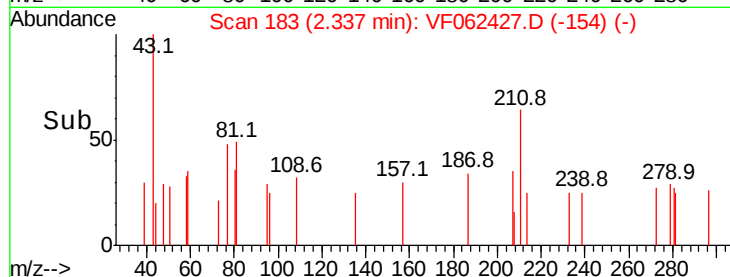
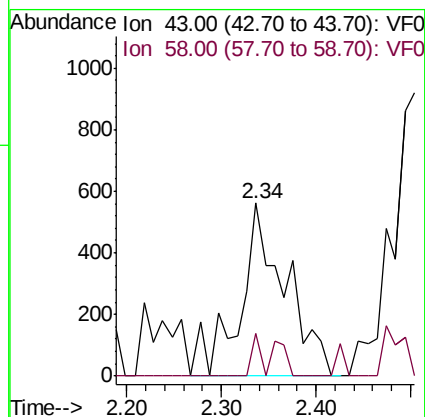
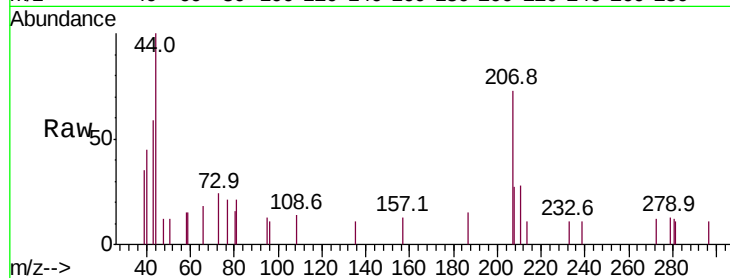
PL-02-050719-BRE

Tot Ion: 43 Resp: 1886

Ion Ratio Lower Upper

43 100

58 24.6 13.1 19.7#



#18

Methyl Acetate

Concen: 25.500 ug/l

RT: 2.51 min Scan# 201

Delta R.T. 0.05 min

Lab File: VF062427.D

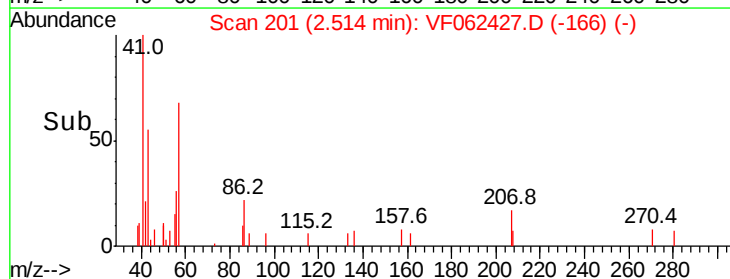
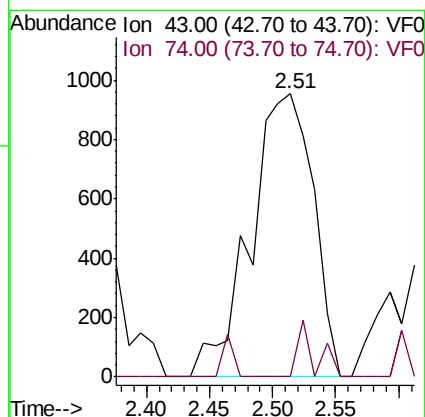
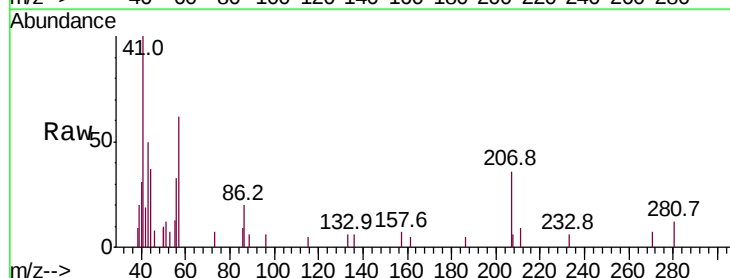
Acq: 10 May 2019 16:59

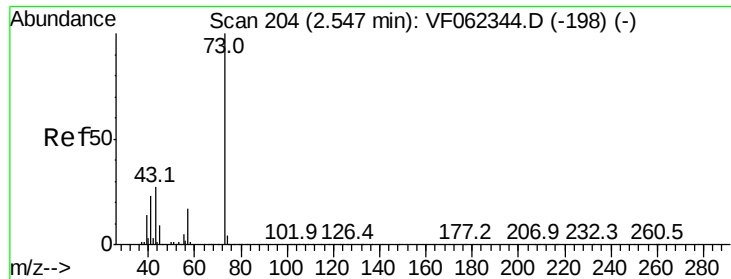
Tgt Ion: 43 Resp: 3307

Ion Ratio Lower Upper

43 100

74 5.5 15.0 22.4#





#19

Methyl tert-butyl Ether

Concen: 1.093 ug/l

RT: 2.55 min Scan# 205

Delta R.T. 0.01 min

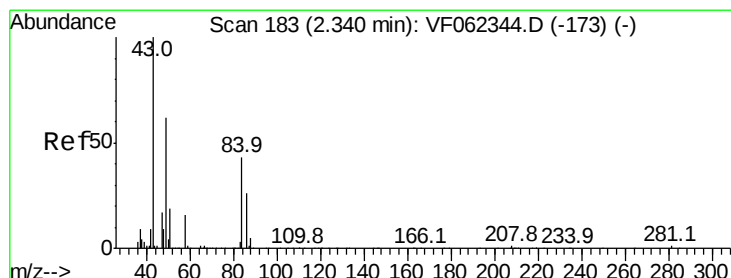
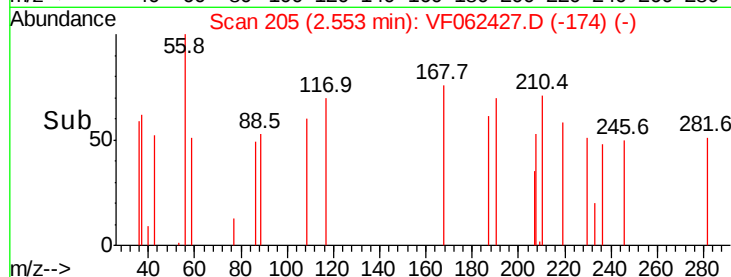
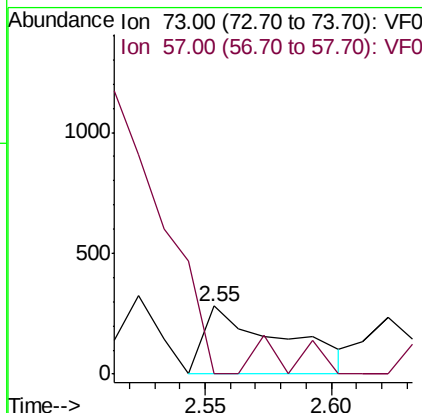
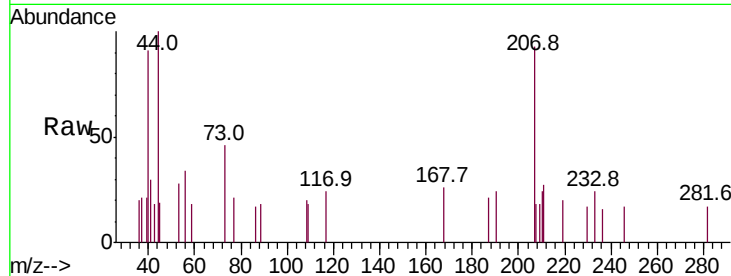
Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

Tot Ion: 73 Resp: 607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 0.0   | 13.7  | 20.5# |



#20

Methylene Chloride

Concen: 2.983 ug/l

RT: 2.31 min Scan# 180

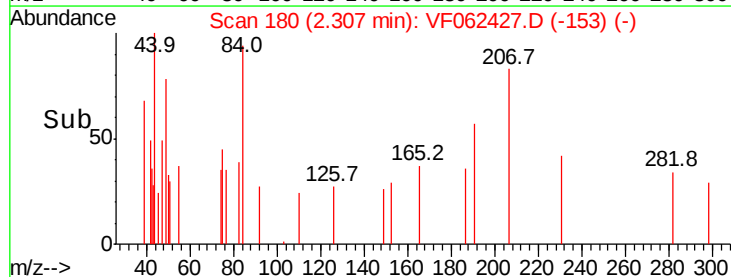
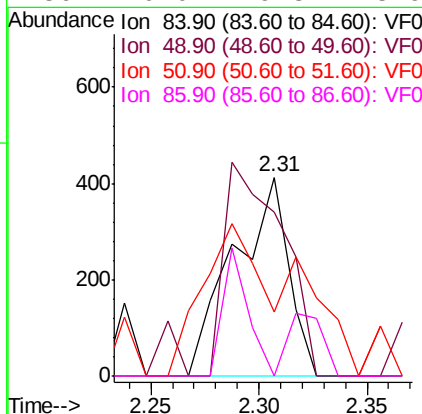
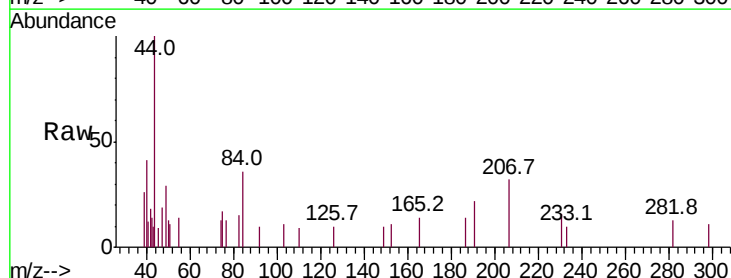
Delta R.T. -0.03 min

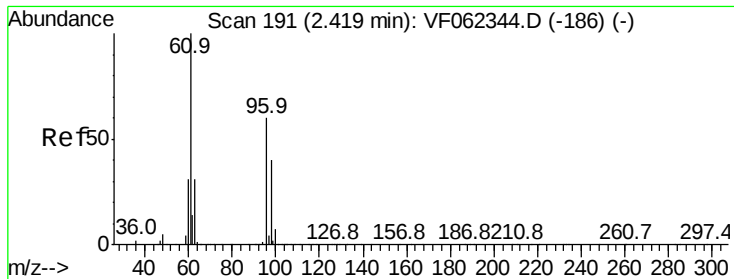
Lab File: VF062427.D

Acq: 10 May 2019 16:59

Tgt Ion: 84 Resp: 724

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 82.3  | 117.5 | 176.3# |
| 51  | 3.6   | 37.0  | 55.4#  |
| 86  | 0.0   | 49.3  | 73.9#  |





#21

trans-1,2-Dichloroethene

Concen: 1.405 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.03 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

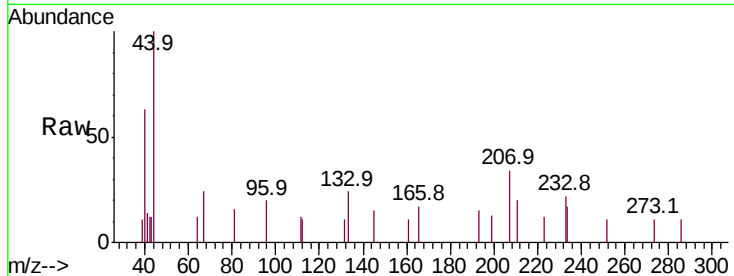
Tot Ion: 96 Resp: 360

Ion Ratio Lower Upper

96 100

61 0.0 133.2 199.8#

98 0.0 53.1 79.7#



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

250

200

150

100

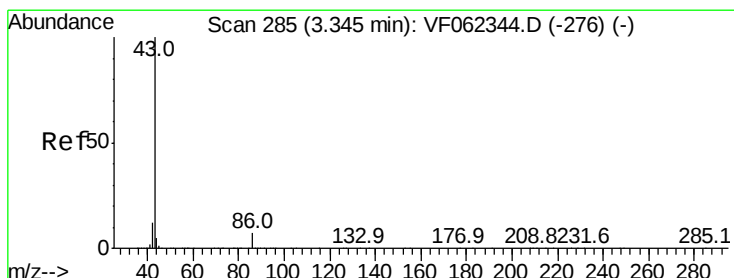
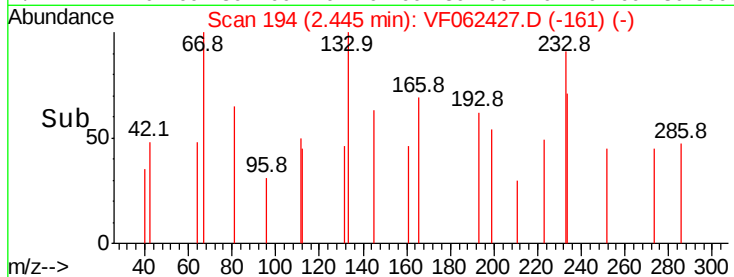
50

0

2.40

2.45

Time-->



#23

Vinyl Acetate

Concen: 1.060 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.02 min

Lab File: VF062427.D

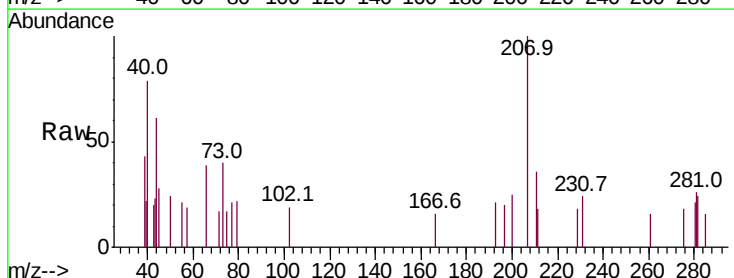
Acq: 10 May 2019 16:59

Tgt Ion: 43 Resp: 351

Ion Ratio Lower Upper

43 100

86 0.0 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

300

200

100

0

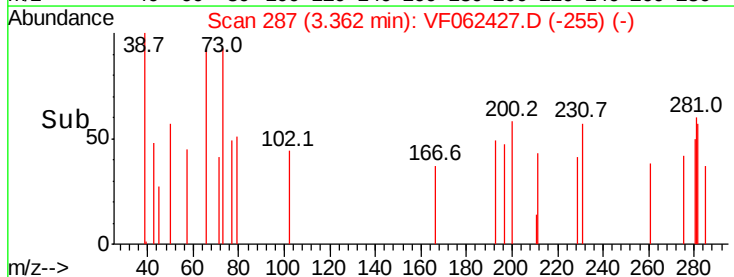
3.34

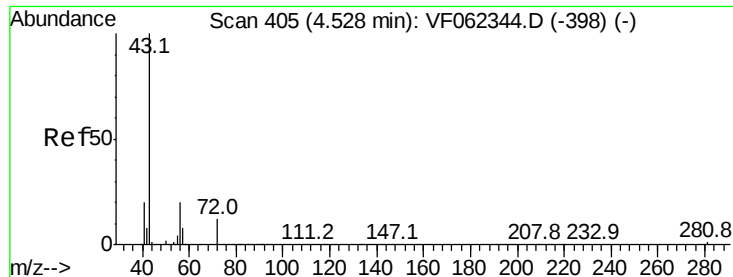
3.36

3.38

3.40

Time-->





#25

2-Butanone

Concen: 8.663 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

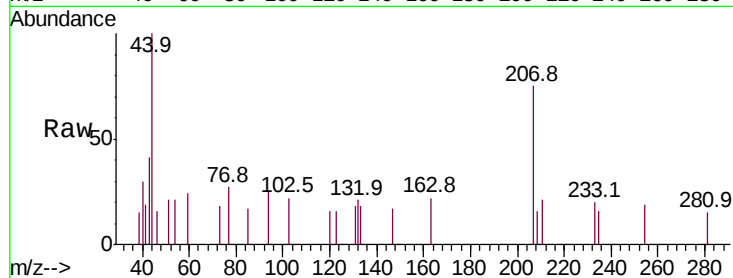
Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

Tot Ion: 43 Resp: 730

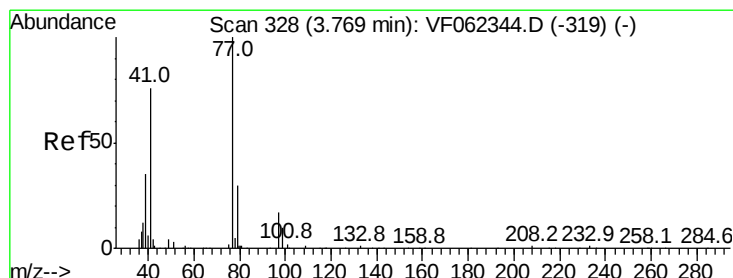
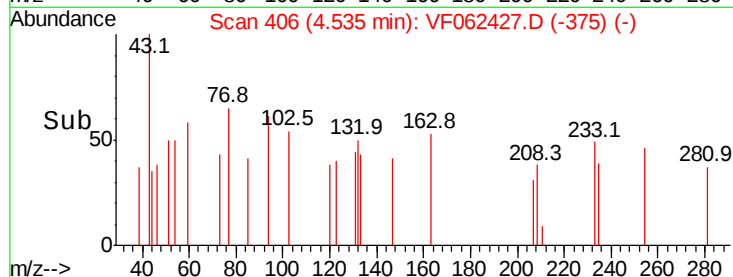
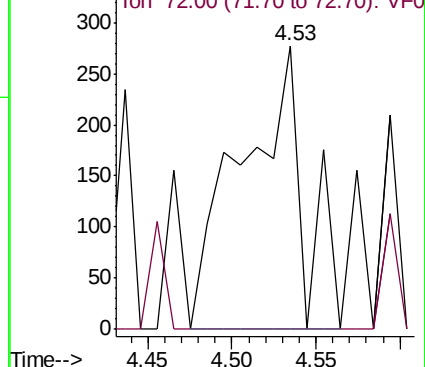
Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#26

2,2-Dichloropropane

Concen: 1.069 ug/l

RT: 3.67 min Scan# 318

Delta R.T. -0.10 min

Lab File: VF062427.D

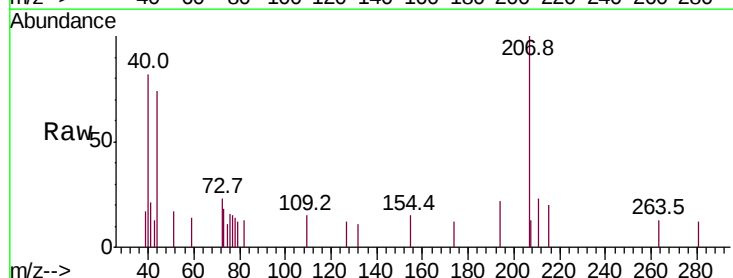
Acq: 10 May 2019 16:59

Tgt Ion: 77 Resp: 268

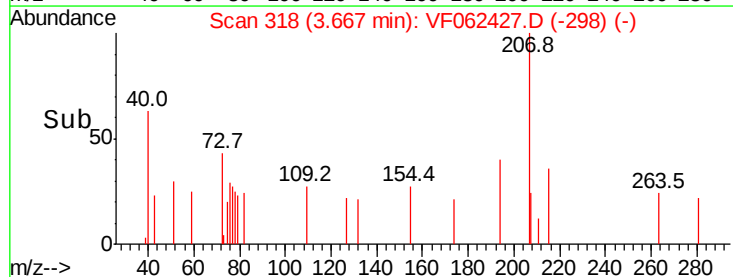
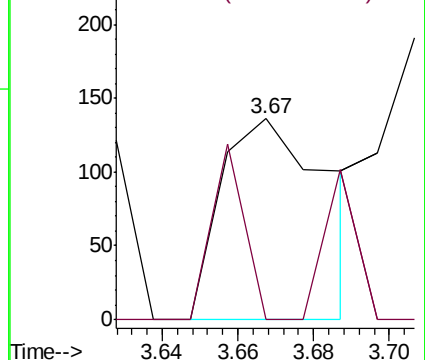
Ion Ratio Lower Upper

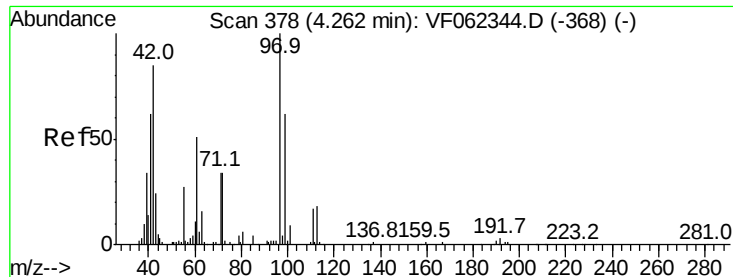
77 100

97 26.1 9.5 28.5



Abundance Ion 76.90 (76.60 to 77.60): VF0





#29

Tetrahydrofuran

Concen: 1.730 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

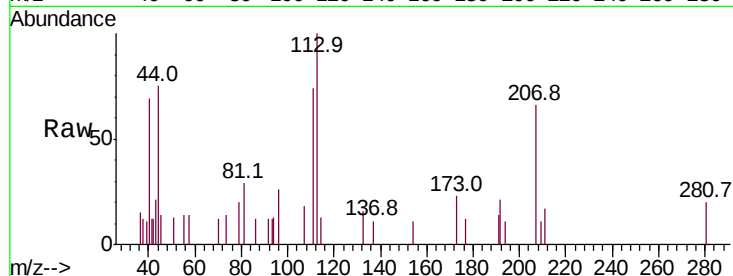
Tot Ion: 42 Resp: 67

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

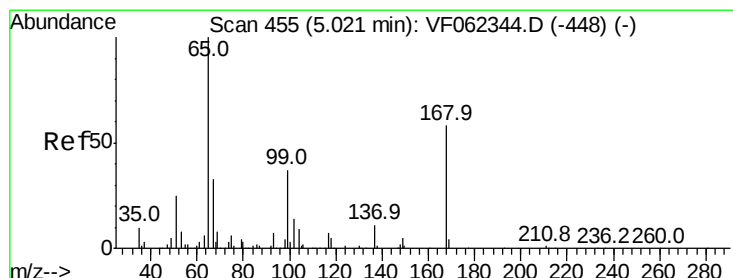
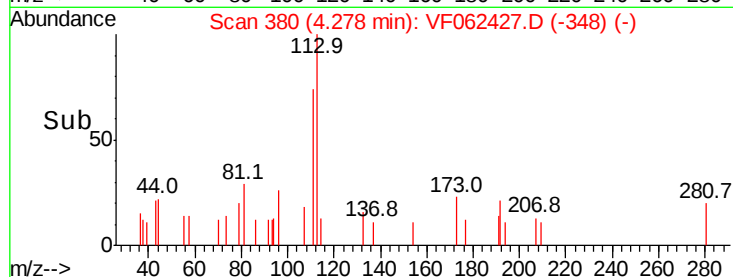
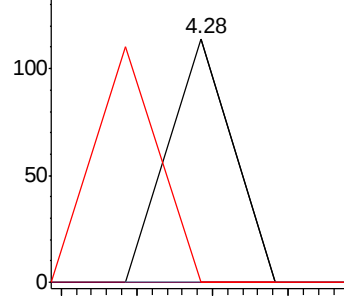
71 97.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 15.894 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF062427.D

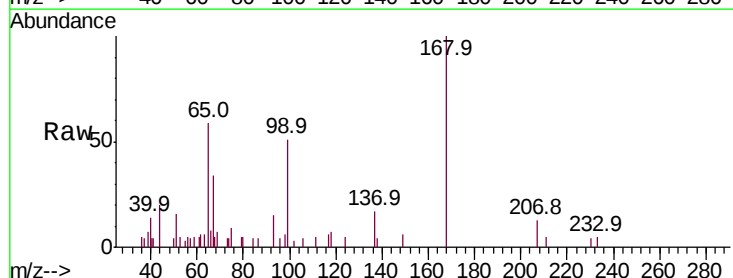
Acq: 10 May 2019 16:59

Tgt Ion: 65 Resp: 5270

Ion Ratio Lower Upper

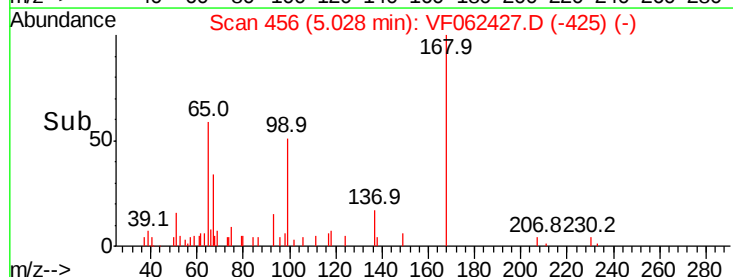
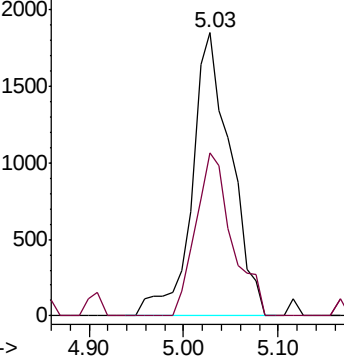
65 100

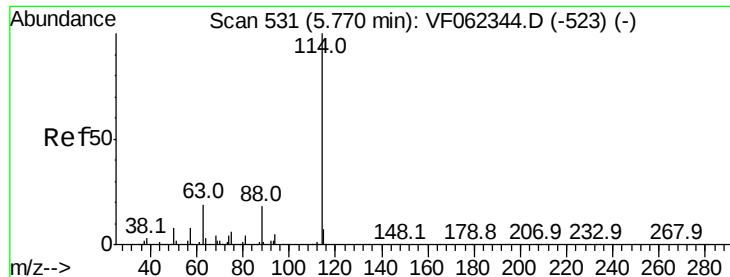
67 54.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

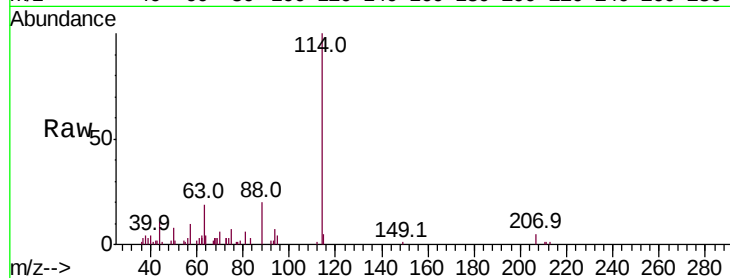
Tot Ion:114 Resp: 27978

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

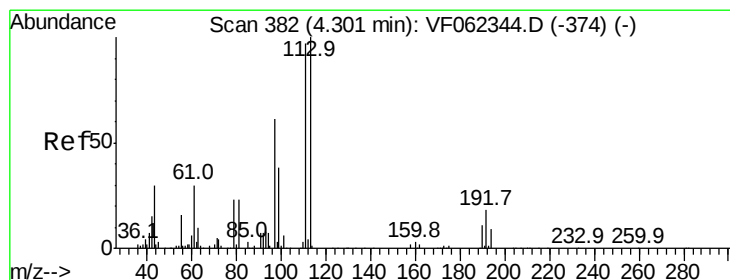
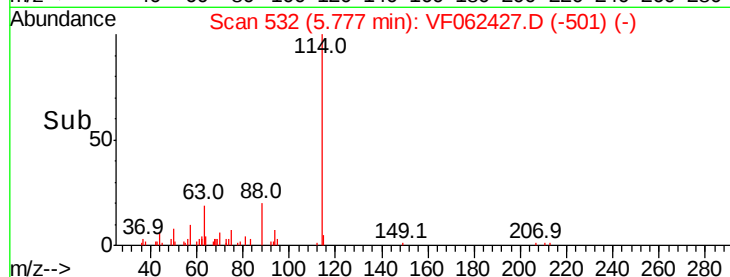
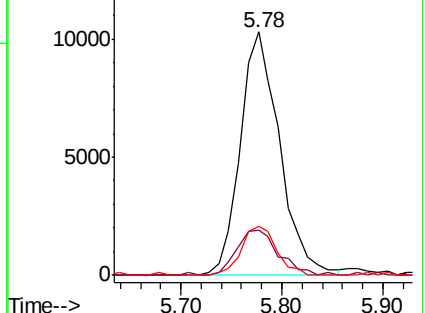
88 20.2 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 37.085 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

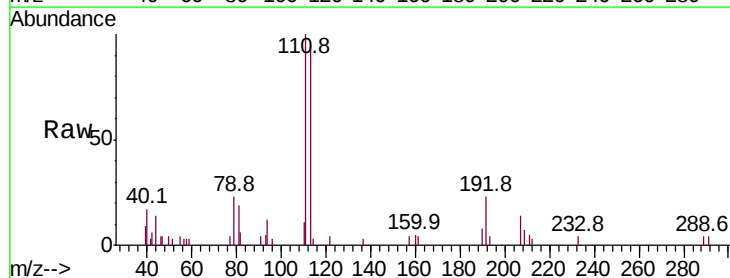
Tgt Ion:113 Resp: 8266

Ion Ratio Lower Upper

113 100

111 100.3 79.4 119.0

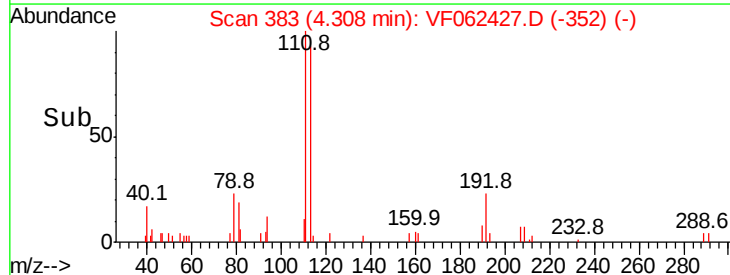
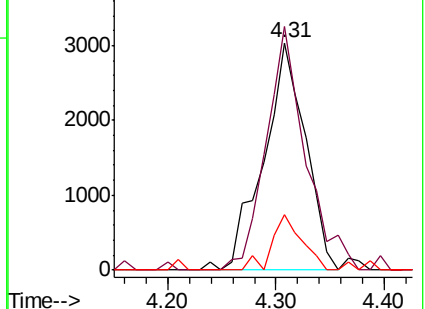
192 17.4 16.0 24.0

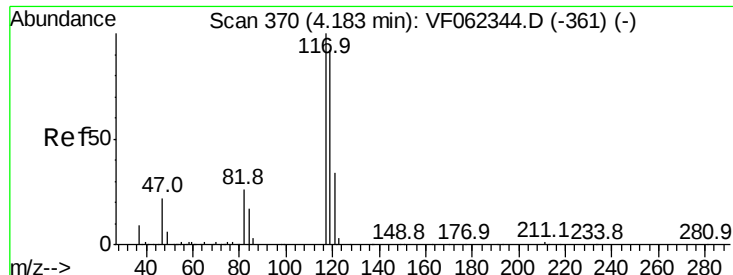


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.17 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

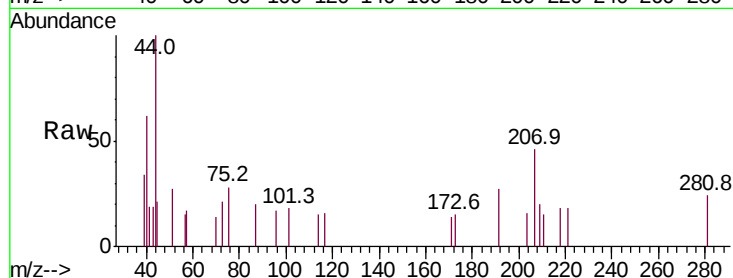
Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

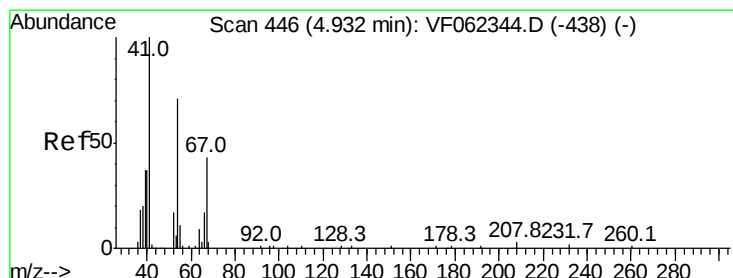
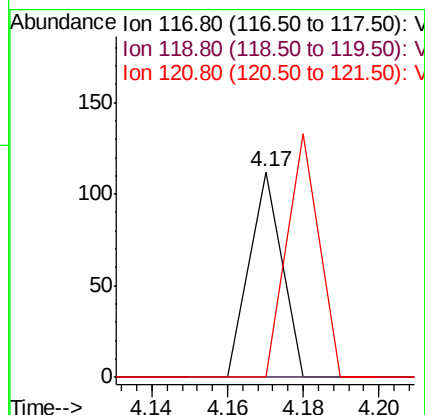
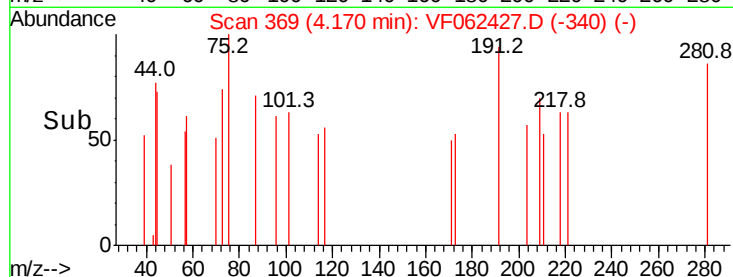
121 0.0 27.4 41.0#



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



#41

Methacrylonitrile

Concen: 5.449 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Tgt Ion: 41 Resp: 314

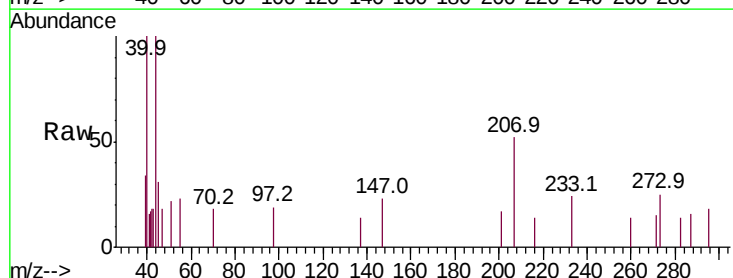
Ion Ratio Lower Upper

41 100

39 108.9 54.3 81.5#

67 29.0 37.8 56.8#

52 0.0 58.2 87.4#

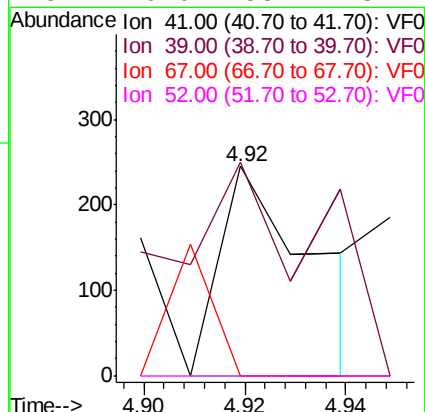
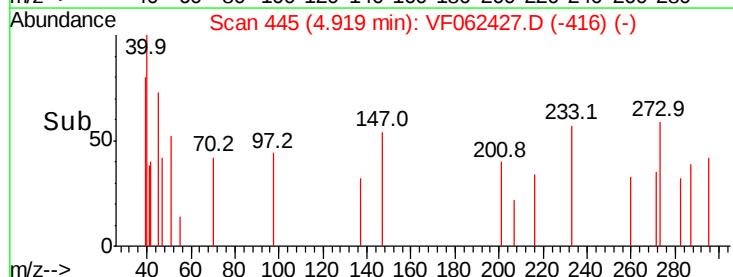


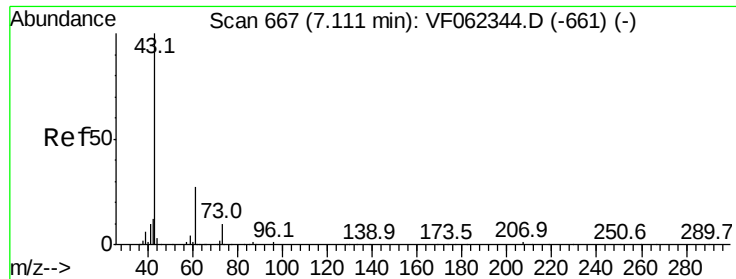
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 4.528 ug/l

RT: 7.14 min Scan# 670

Delta R.T. 0.03 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

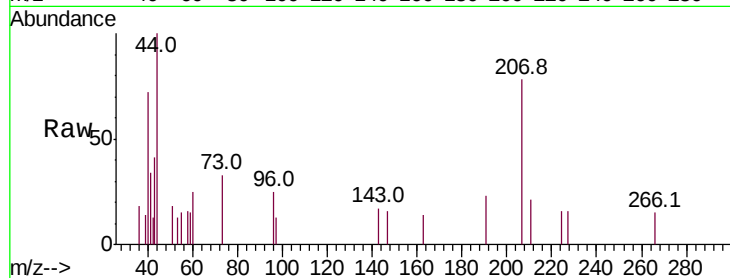
Tot Ion: 43 Resp: 495

Ion Ratio Lower Upper

43 100

61 21.8 22.8 34.2#

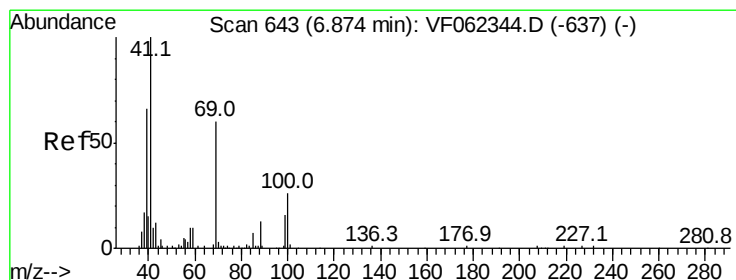
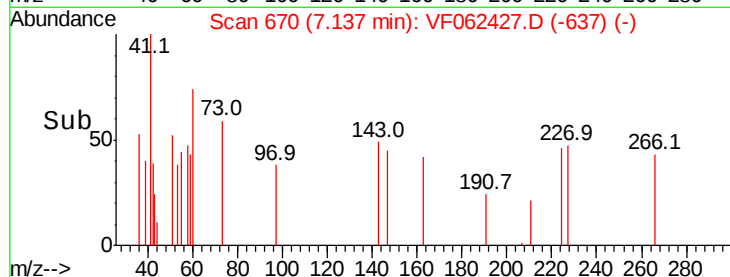
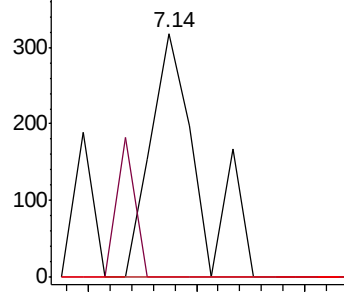
87 0.0 0.6 1.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 2.912 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

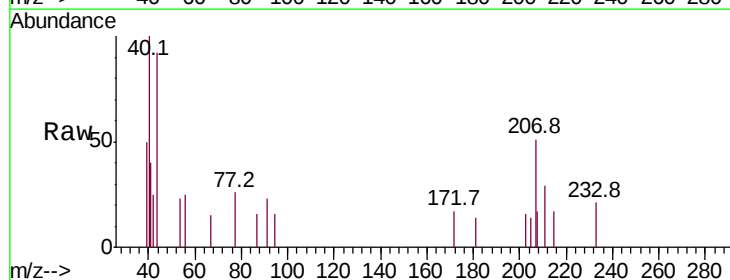
Tgt Ion: 41 Resp: 225

Ion Ratio Lower Upper

41 100

69 0.0 48.6 72.8#

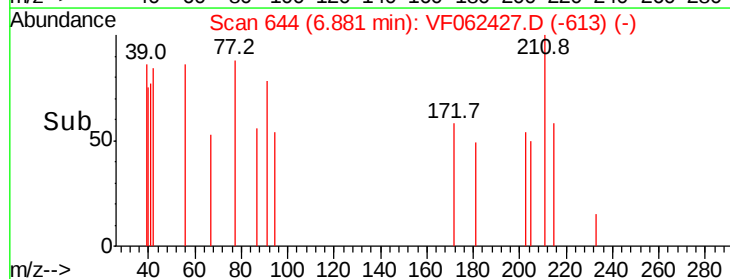
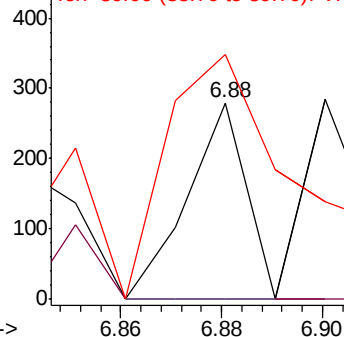
39 280.9 56.1 84.1#

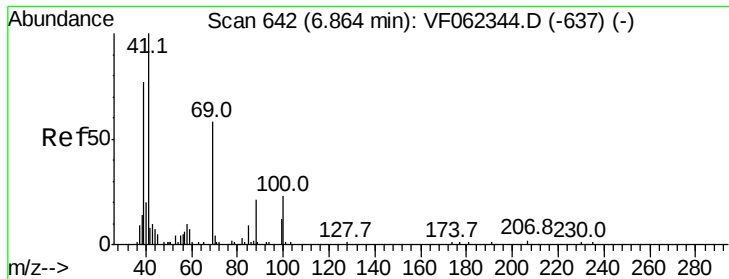


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

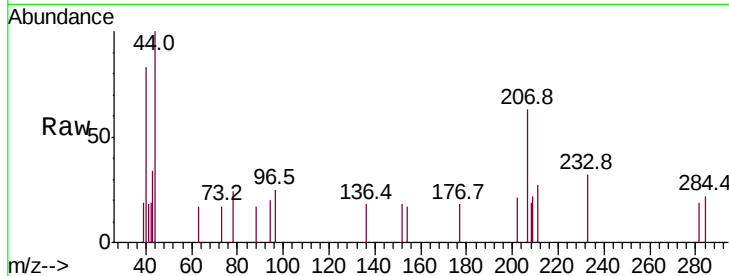




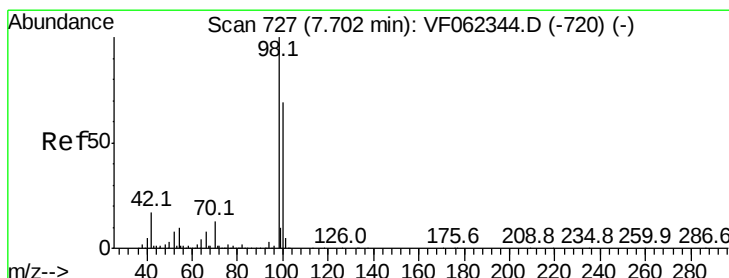
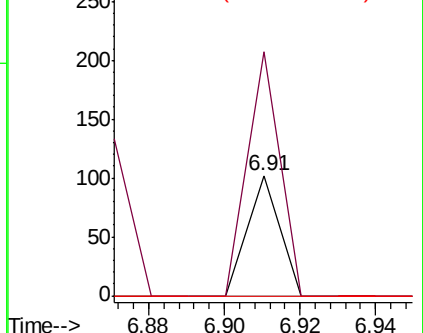
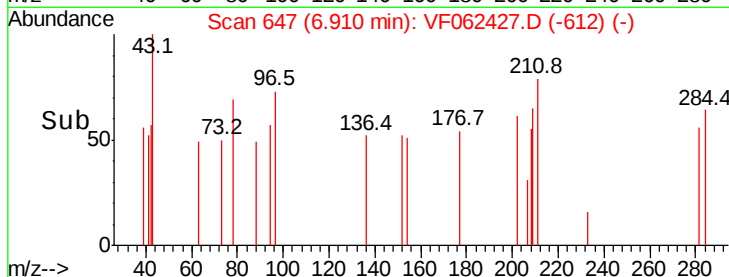
#49  
1,4-Dioxane  
Concen: 63.274 ug/l  
RT: 6.91 min Scan# 647  
Delta R.T. 0.05 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

Tot Ion: 88 Resp: 60  
Ion Ratio Lower Upper  
88 100  
43 203.3 55.6 83.4#  
58 0.0 52.8 79.2#

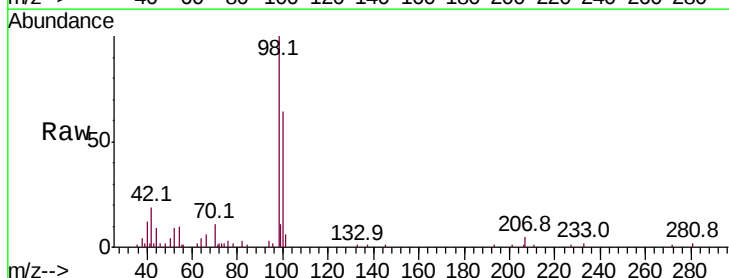


Abundance Ion 88.00 (87.70 to 88.70): VF0  
Ion 43.00 (42.70 to 43.70): VF0  
Ion 58.00 (57.70 to 58.70): VF0

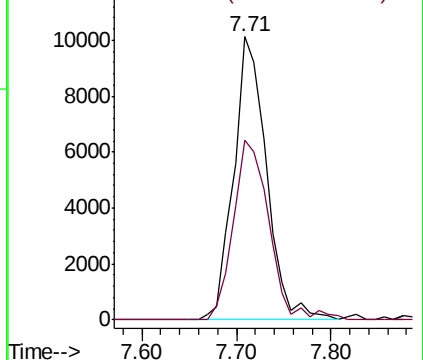
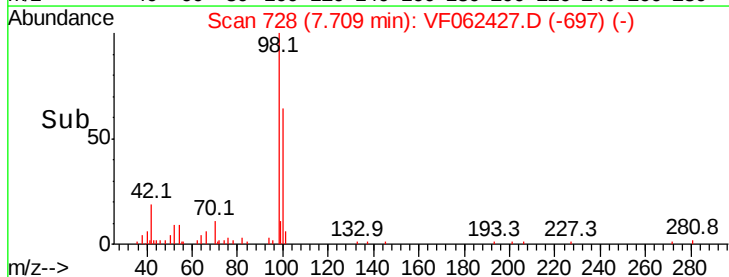


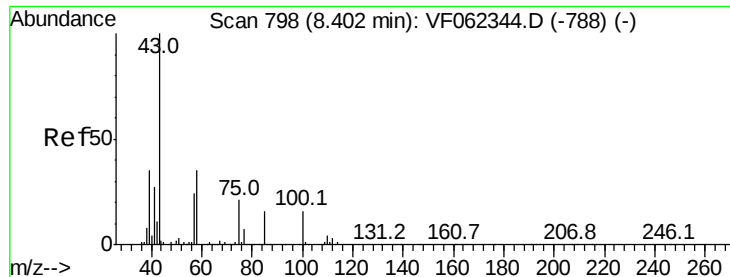
#50  
Toluene-d8  
Concen: 45.147 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.01 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Tgt Ion: 98 Resp: 24359  
Ion Ratio Lower Upper  
98 100  
100 69.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0  
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.088 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

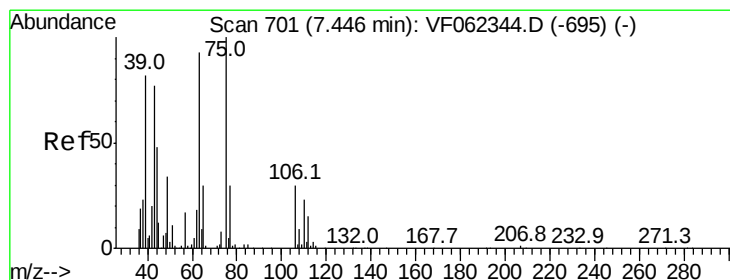
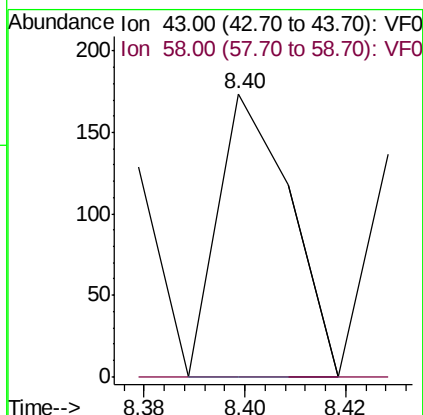
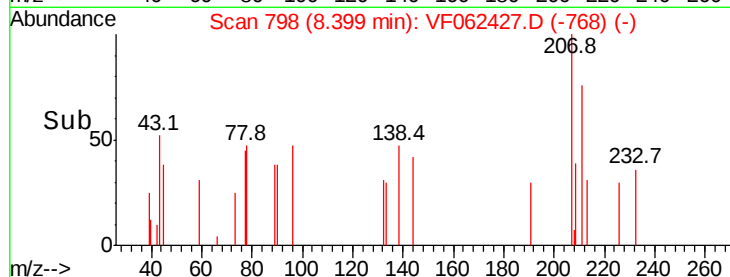
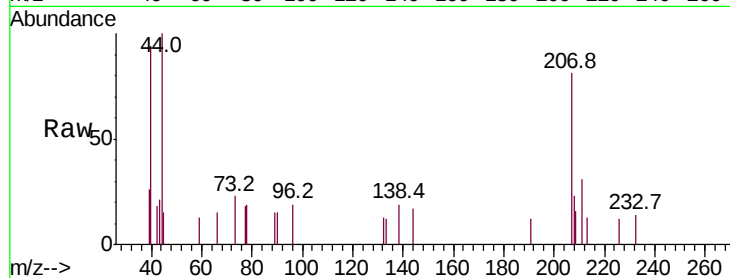
PL-02-050719-BRE

Tot Ion: 43 Resp: 173

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



#58

2-Chloroethyl Vinyl ether

Concen: 2.888 ug/l

RT: 7.32 min Scan# 689

Delta R.T. -0.12 min

Lab File: VF062427.D

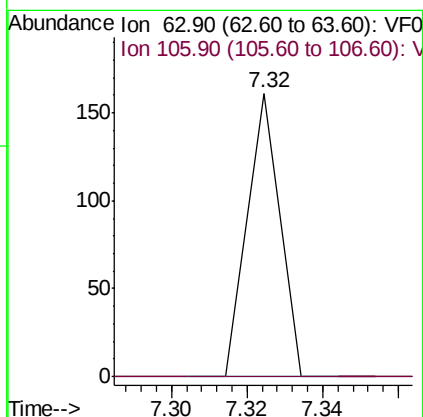
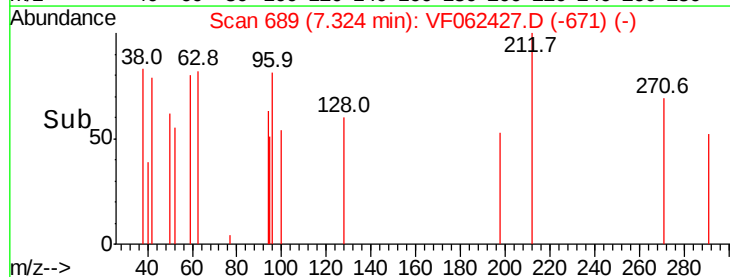
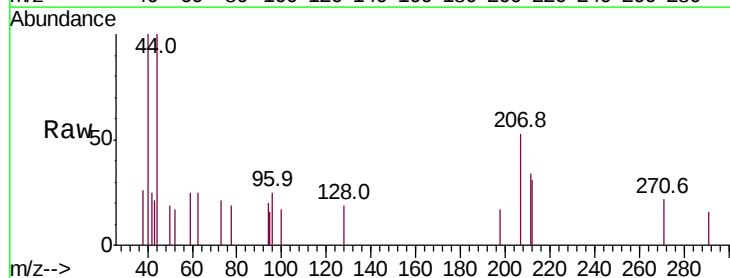
Acq: 10 May 2019 16:59

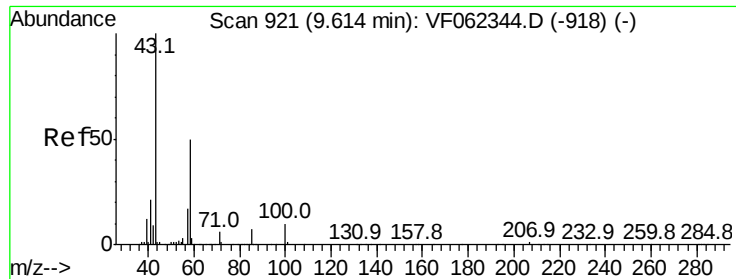
Tgt Ion: 63 Resp: 95

Ion Ratio Lower Upper

63 100

106 0.0 25.8 38.8#

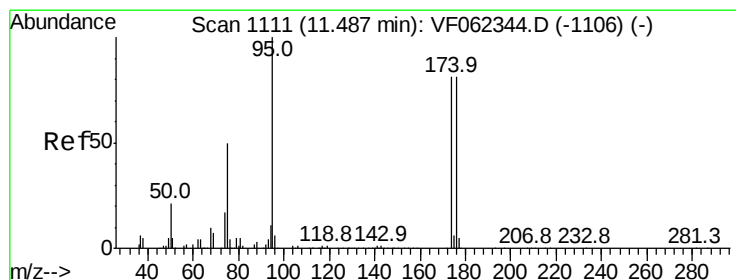
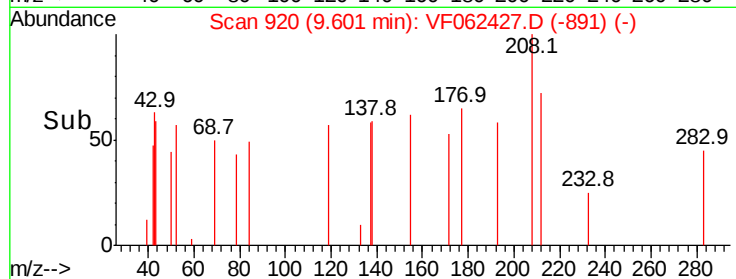
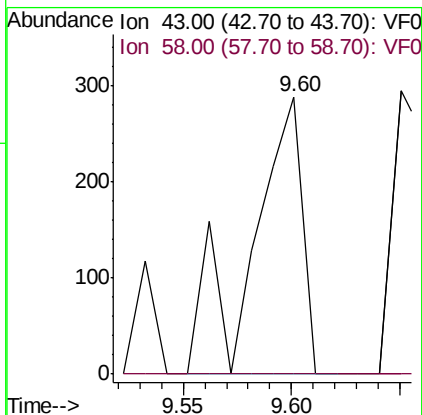
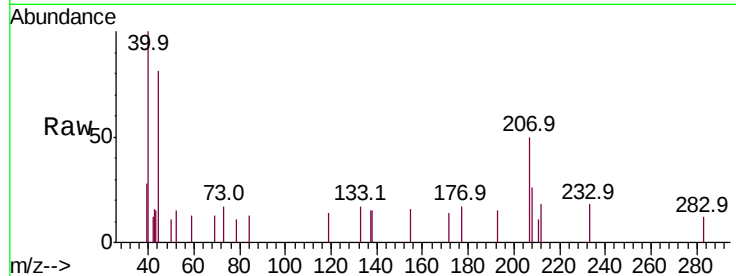




#59  
2-Hexanone  
Concen: 8.169 ug/l  
RT: 9.60 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

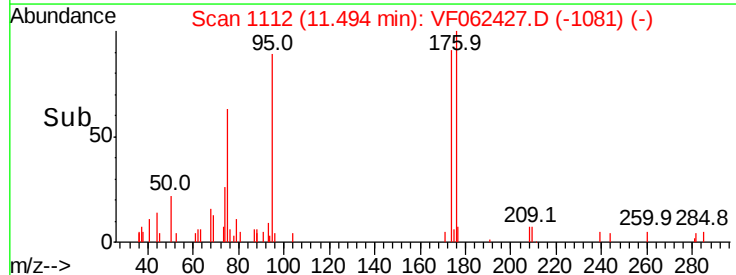
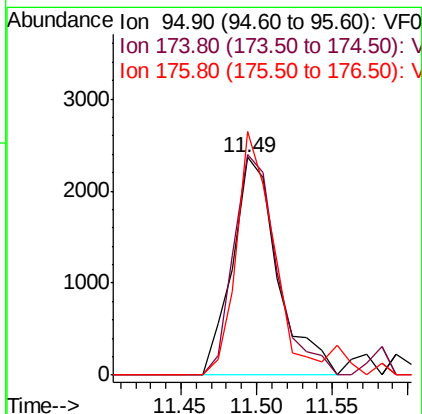
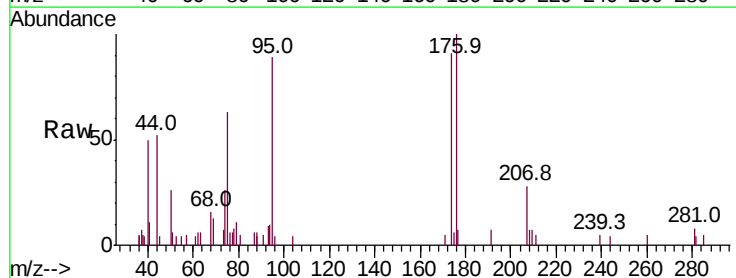
Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

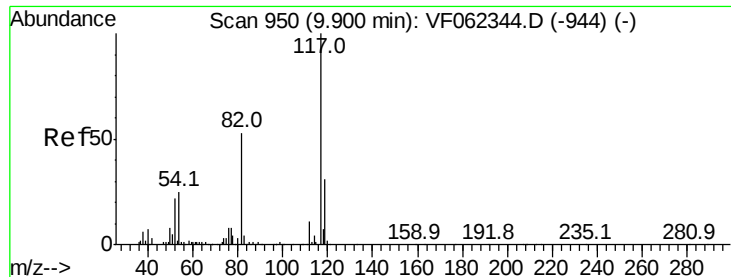
Tot Ion: 43 Resp: 468  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.3 73.0#



#62  
4-Bromofluorobenzene  
Concen: 20.314 ug/l  
RT: 11.49 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Tgt Ion: 95 Resp: 4945  
Ion Ratio Lower Upper  
95 100  
174 97.0 0.0 191.8  
176 90.9 0.0 193.2

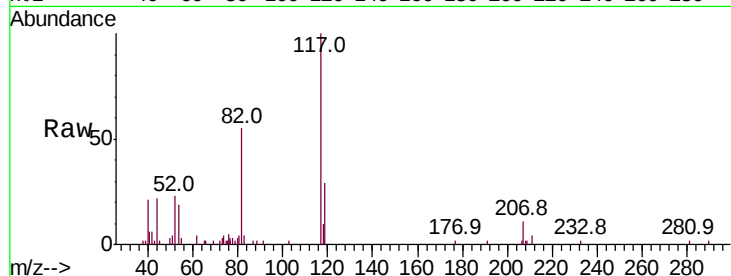




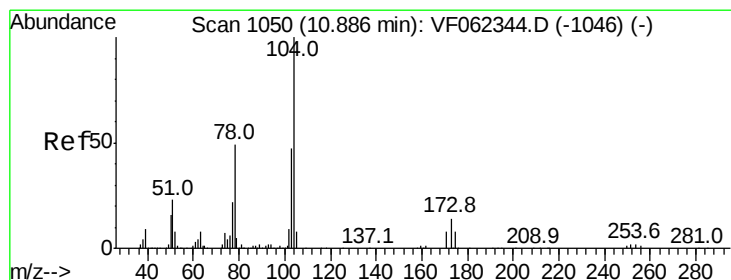
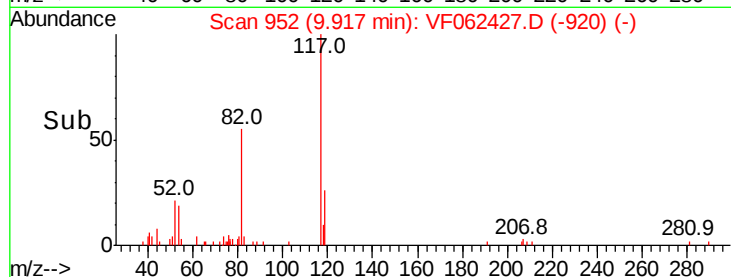
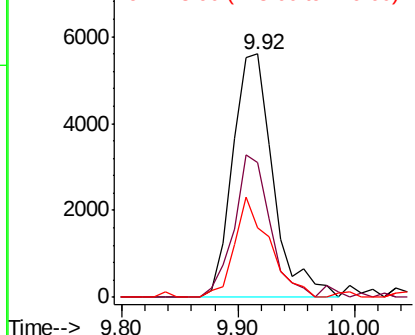
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. 0.02 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-050719-BRE

Tot Ion:117 Resp: 13478  
Ion Ratio Lower Upper  
117 100  
82 55.2 42.2 63.2  
119 28.6 25.0 37.4

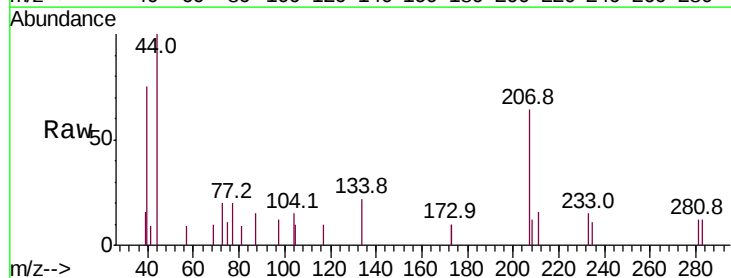


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 118.90 (118.60 to 119.60): V

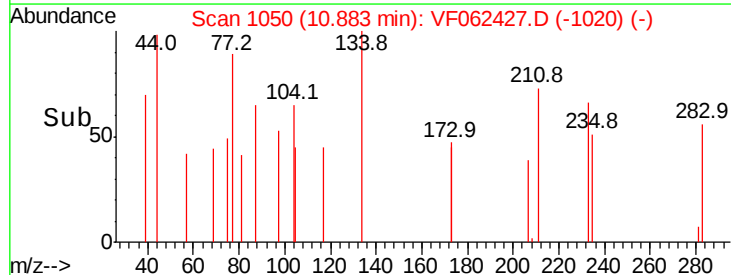
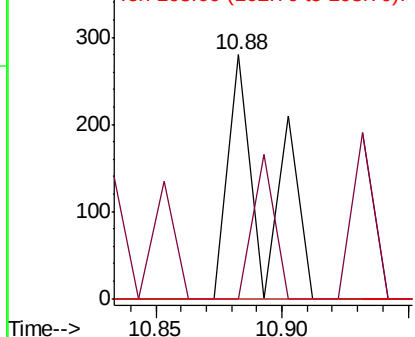


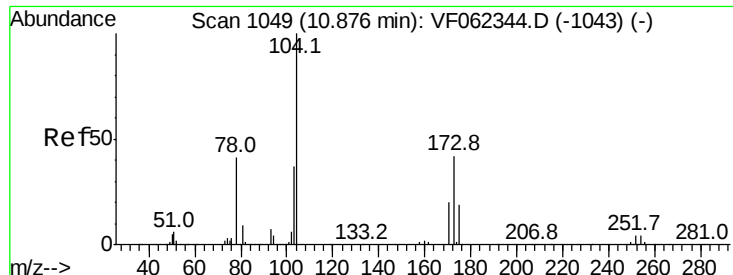
#70  
Styrene  
Concen: 1.243 ug/l  
RT: 10.88 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VF062427.D  
Acq: 10 May 2019 16:59

Tgt Ion:104 Resp: 290  
Ion Ratio Lower Upper  
104 100  
78 33.8 39.5 59.3#  
103 0.0 38.4 57.6#



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VF0  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 2.239 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

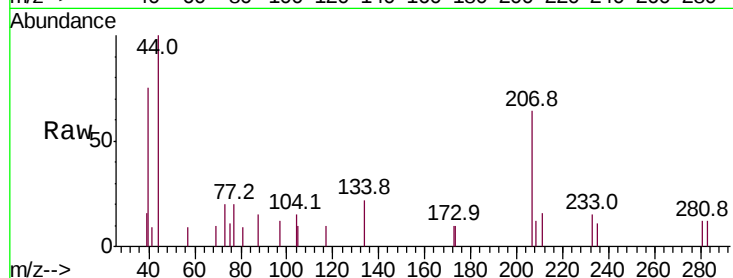
Tot Ion:173 Resp: 138

Ion Ratio Lower Upper

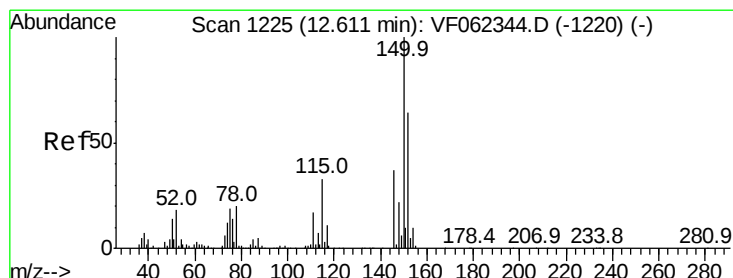
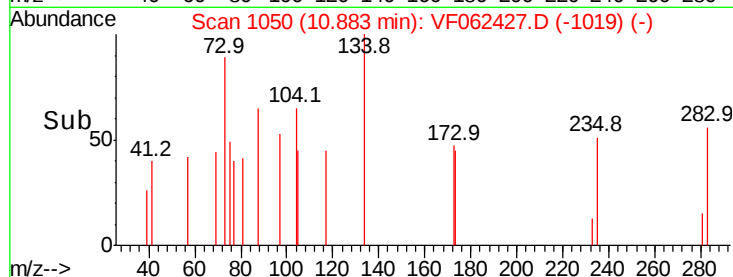
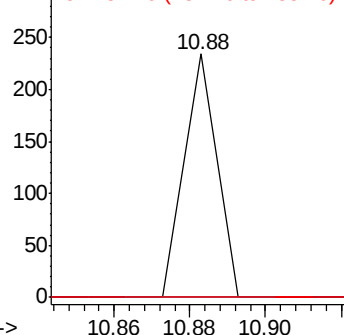
173 100

175 0.0 23.8 71.2#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

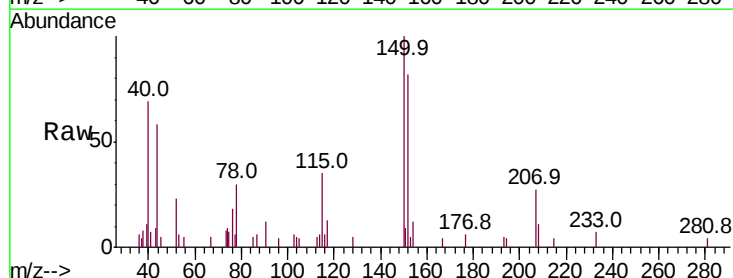
Tgt Ion:152 Resp: 3139

Ion Ratio Lower Upper

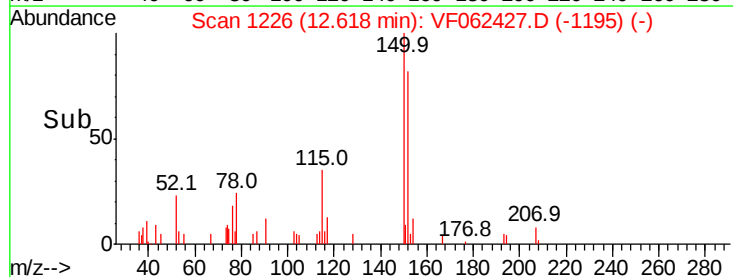
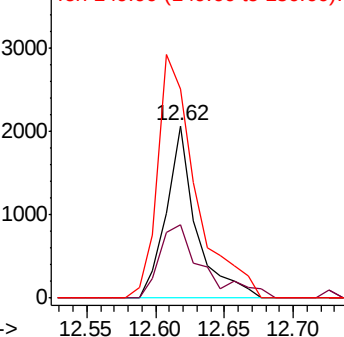
152 100

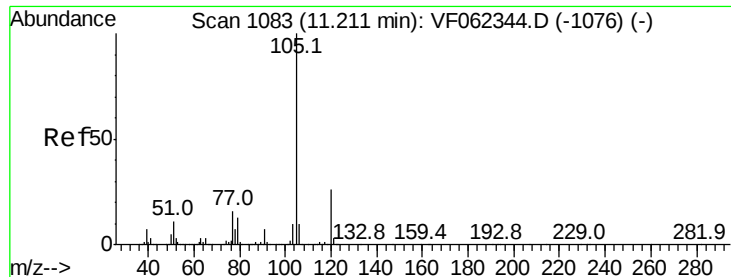
115 61.2 26.4 79.2

150 178.5 0.0 335.0



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





#73

Isopropylbenzene

Concen: 1.870 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

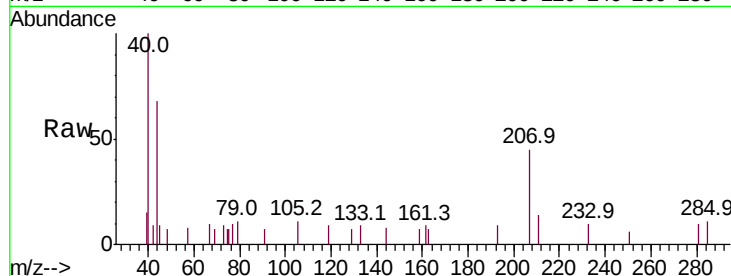
PL-02-050719-BRE

Tot Ion:105 Resp: 348

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

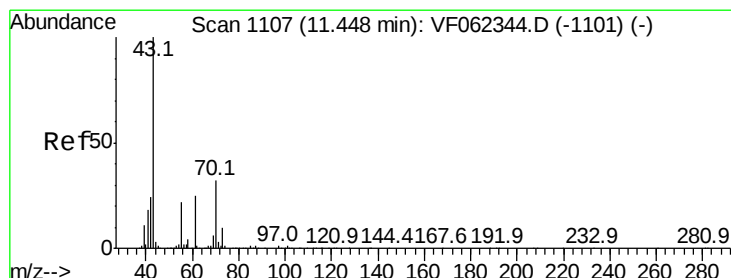
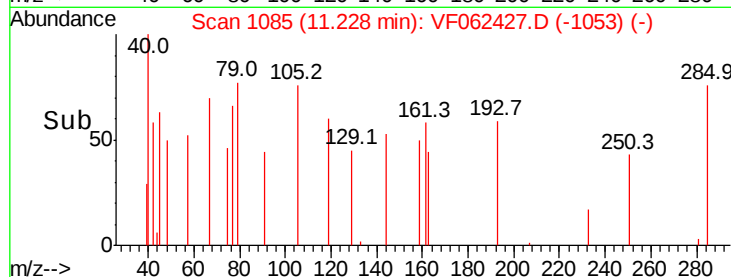
150

100

50

0

Time--> 11.15 11.20 11.25



#74

N-ethyl acetate

Concen: 5.231 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Tgt Ion: 43 Resp: 209

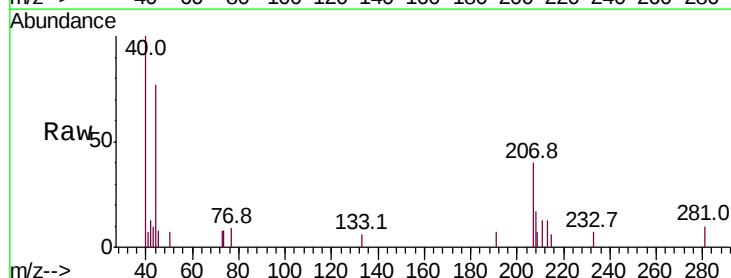
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 61.2 17.8 26.6#

61 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

300

250

200

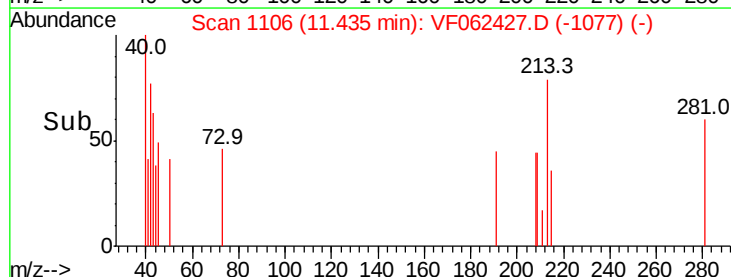
150

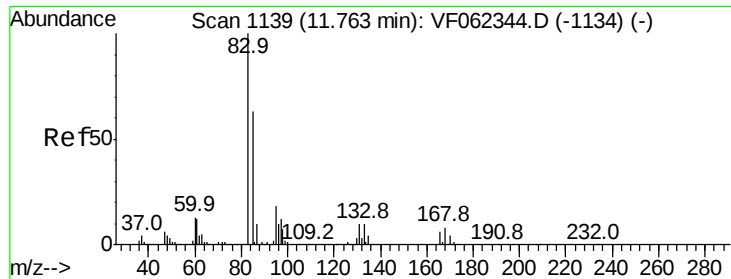
100

50

0

Time--> 11.42 11.44 11.46





#75

1,1,2,2-Tetrachloroethane

Concen: 3.089 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

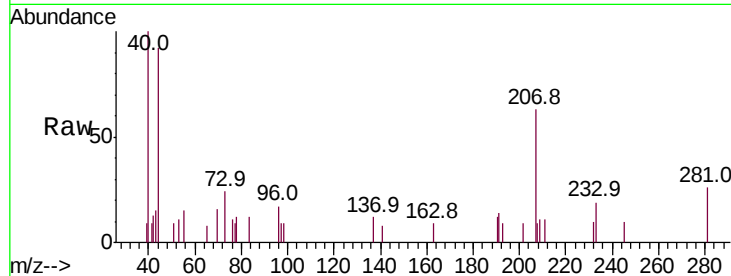
Tot Ion: 83 Resp: 90

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

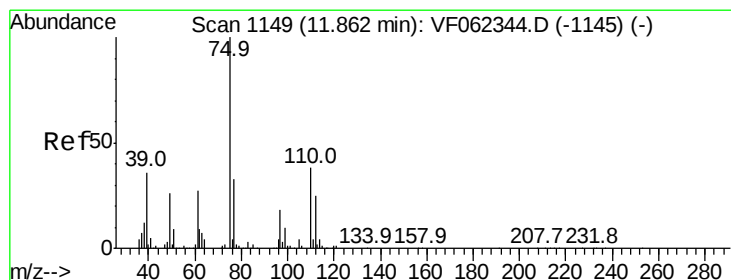
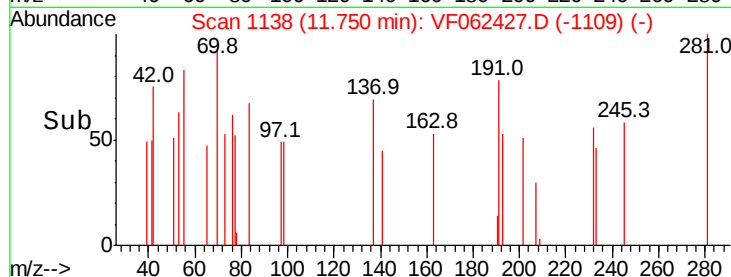
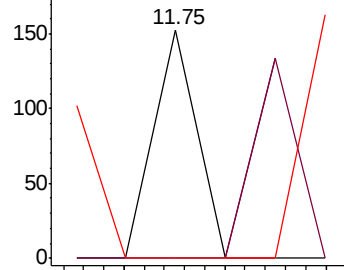
85 0.0 35.3 105.7#



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 6.208 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062427.D

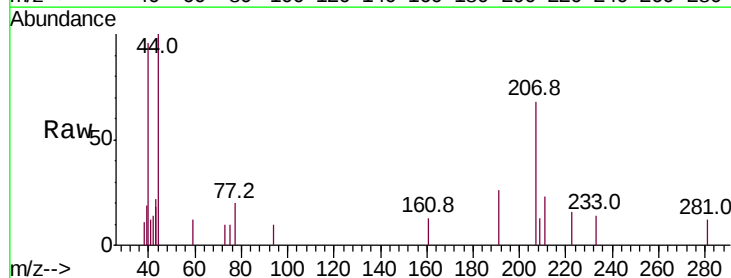
Acq: 10 May 2019 16:59

Tgt Ion: 75 Resp: 138

Ion Ratio Lower Upper

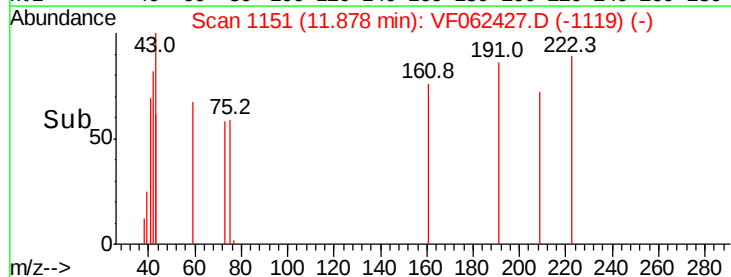
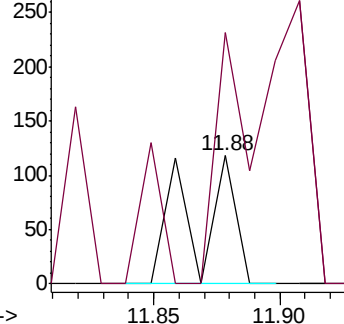
75 100

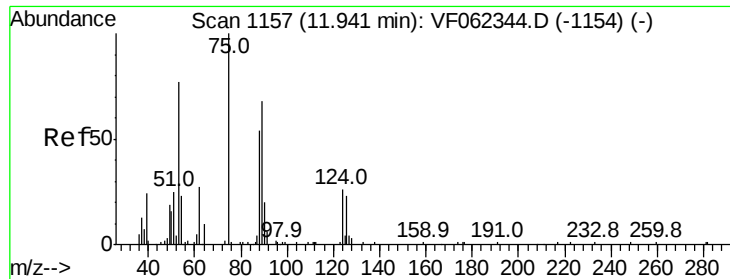
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 7.420 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.04 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-050719-BRE

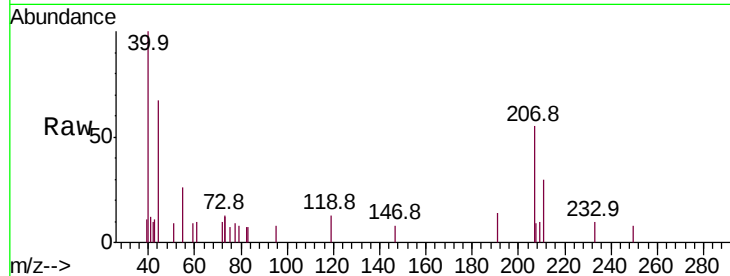
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

53 167.7 71.9 107.9#

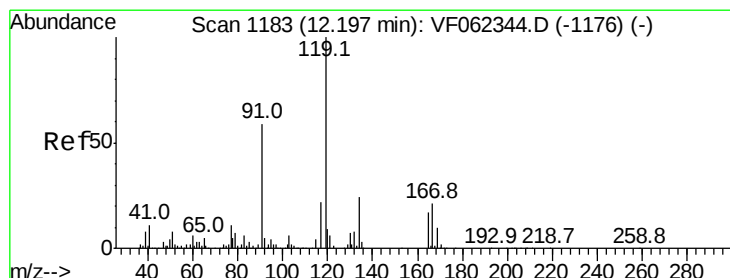
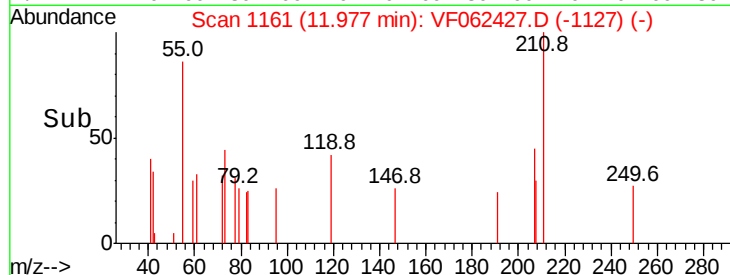
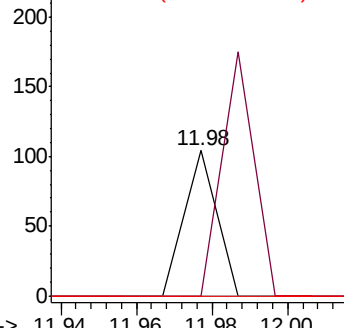
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#83

tert-Butylbenzene

Concen: 1.038 ug/l

RT: 12.19 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

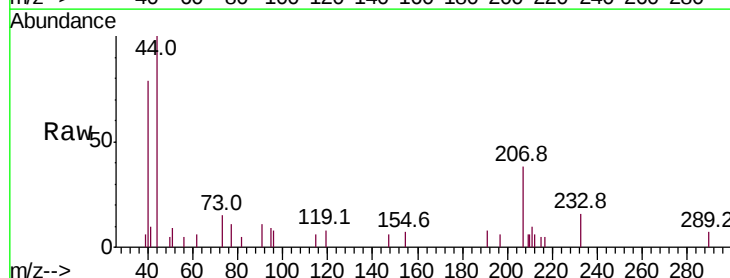
Tgt Ion: 119 Resp: 178

Ion Ratio Lower Upper

119 100

91 115.7 30.4 91.3#

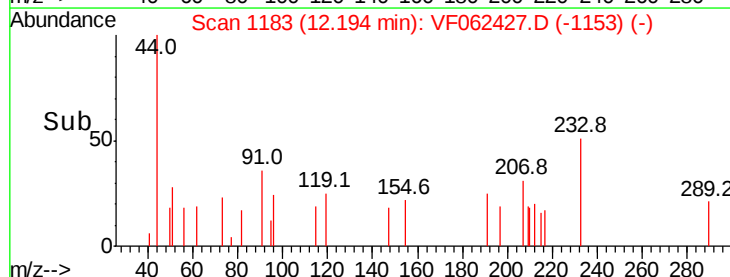
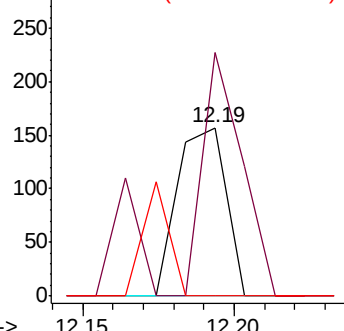
134 0.0 11.9 35.7#

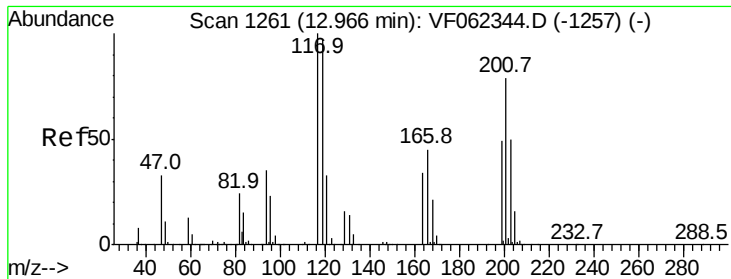


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1.240 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.03 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

Instrument :

MSVOA\_F

ClientSampleId :

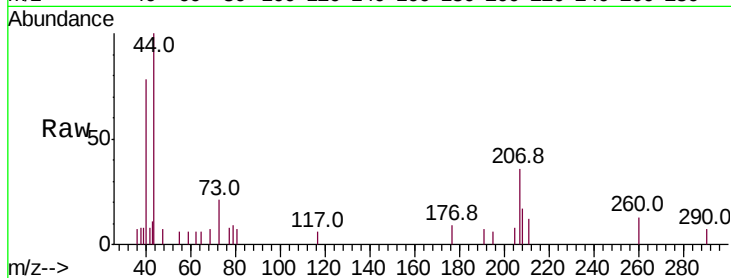
PL-02-050719-BRE

Tot Ion:117 Resp: 60

Ion Ratio Lower Upper

117 100

201 0.0 46.2 138.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.99

100

80

60

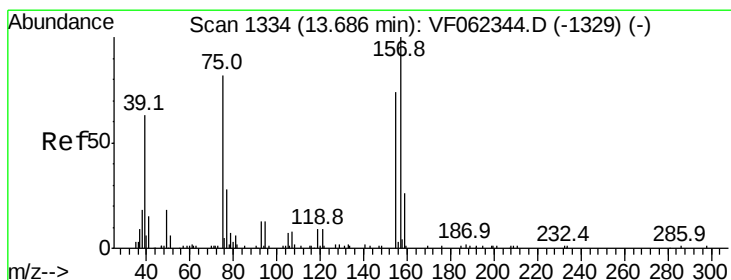
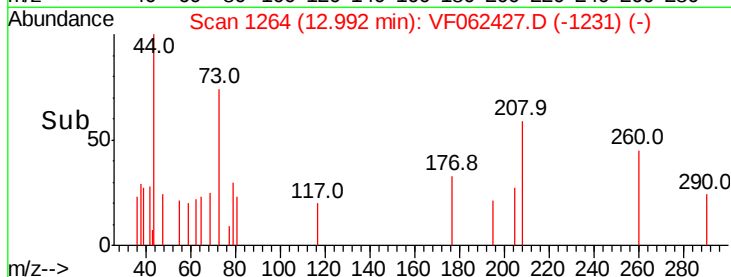
40

20

0

12.96 12.98 13.00 13.02

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 12.256 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VF062427.D

Acq: 10 May 2019 16:59

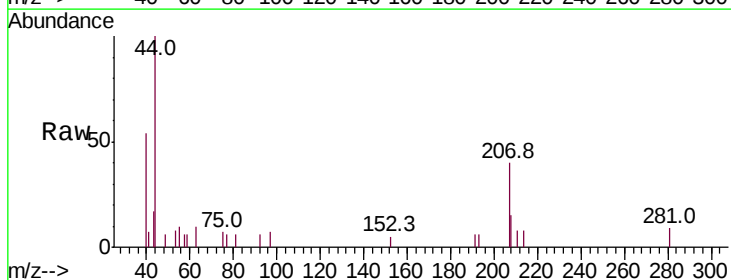
Tgt Ion: 75 Resp: 80

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

13.68

150

100

50

0

13.66 13.68 13.70

Time-->

