

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061194.D
 Acq On : 26 Dec 2018 18:01
 Operator : VA/AP
 Sample : J6404-04
 Misc : 20.68g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CPIDW02-121218-S

Quant Time: Dec 26 23:54:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	19511	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	24036	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	14792	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	5226	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	3480	13.87	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	27.74%	
35) Dibromofluoromethane	4.10	113	5923	30.76	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	61.52%	
50) Toluene-d8	7.54	98	20910	38.32	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	76.64%	
62) 4-Bromofluorobenzene	11.40	95	6318	25.12	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	50.24%	

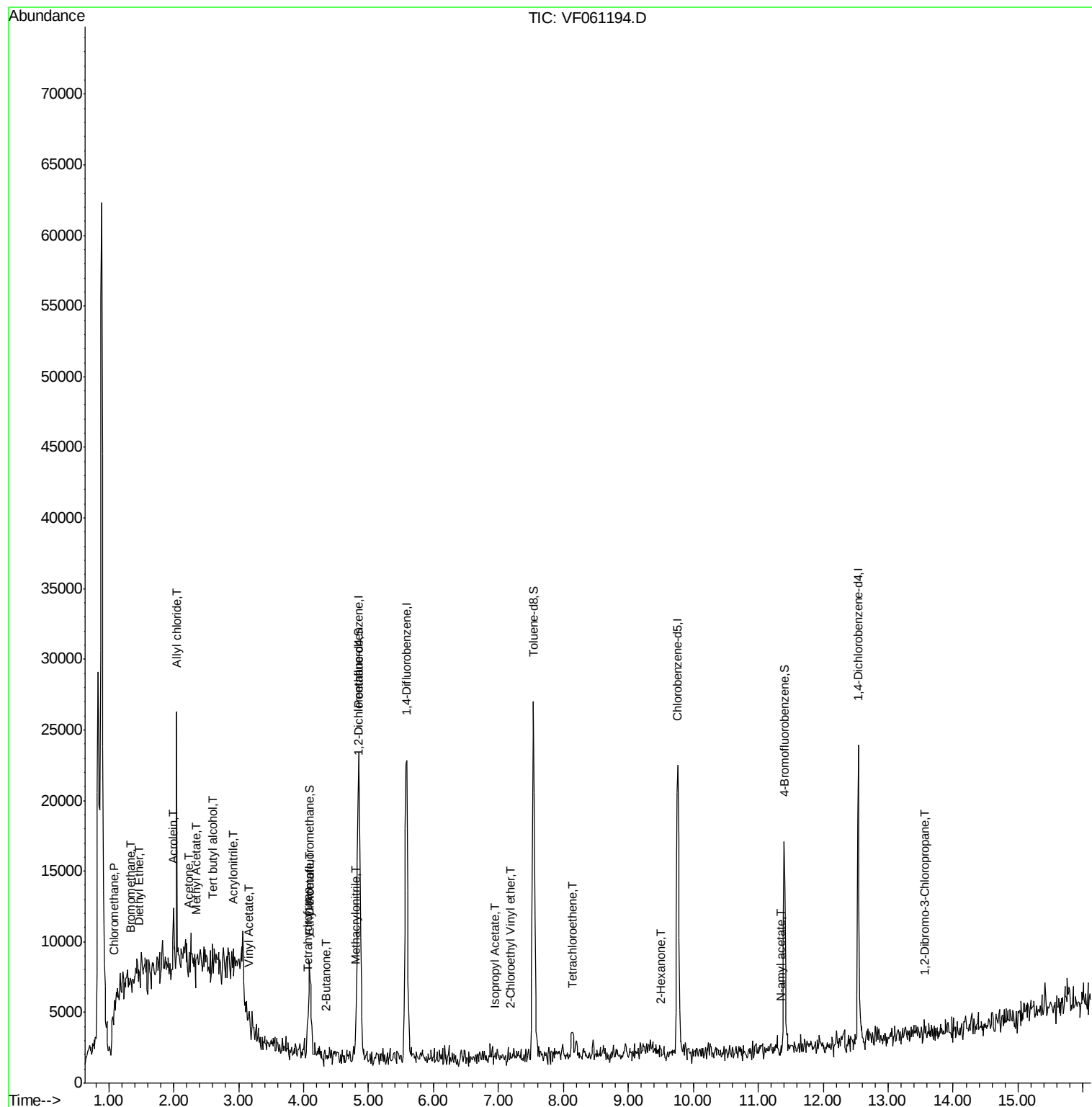
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	358	1.441	ug/l #	42
5) Bromomethane	1.33	94	224	1.401	ug/l #	3
8) Diethyl Ether	1.47	74	65	1.079	ug/l	58
11) Tert butyl alcohol	2.60	59	133	13.134	ug/l #	1
13) Acrolein	1.99	56	398	54.390	ug/l #	71
14) Allyl chloride	2.05	41	747	4.174	ug/l #	43
15) Acrylonitrile	2.93	53	464	19.815	ug/l #	30
16) Acetone	2.24	43	184	3.668	ug/l #	66
18) Methyl Acetate	2.34	43	585	5.636	ug/l #	66
20) Methylene Chloride	2.23	84	71	Below Cal	#	2
23) Vinyl Acetate	3.17	43	282	1.025	ug/l #	78
25) 2-Butanone	4.35	43	361	4.437	ug/l #	57
29) Tetrahydrofuran	4.06	42	186	5.617	ug/l #	37
37) Ethyl Acetate	4.11	43	230	1.598	ug/l #	21
41) Methacrylonitrile	4.80	41	108	1.763	ug/l #	10
43) Isopropyl Acetate	6.95	43	157	1.121	ug/l #	45
58) 2-Chloroethyl Vinyl ether	7.18	63	65	2.526	ug/l #	50
59) 2-Hexanone	9.50	43	515	7.412	ug/l #	27
64) Tetrachloroethene	8.12	164	481	4.227	ug/l #	50
70) Styrene	10.79	104	61	Below Cal	#	30
74) N-amyl acetate	11.36	43	188	1.880	ug/l #	46
92) 1,2-Dibromo-3-Chloropropan	13.57	75	65	4.739	ug/l #	2

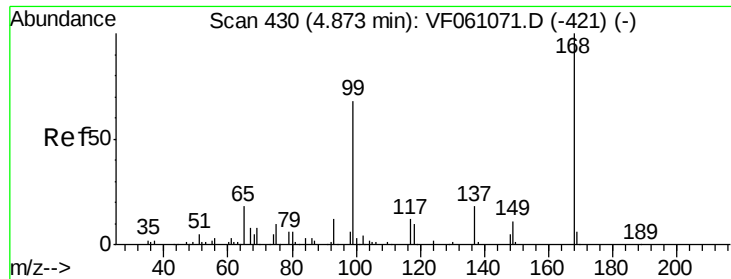
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
Data File : VF061194.D
Acq On : 26 Dec 2018 18:01
Operator : VA/AP
Sample : J6404-04
Misc : 20.68g/5mL/MSVOA-F/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

Quant Time: Dec 26 23:54:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

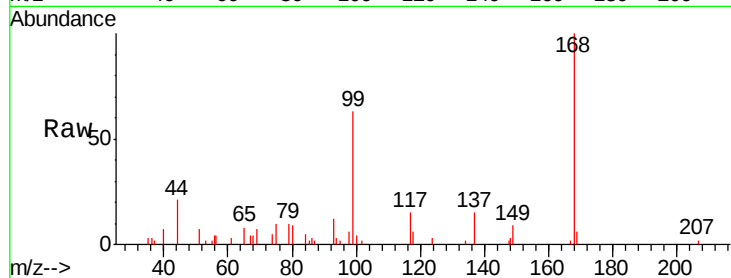
CPIDW02-121218-S

Tgt Ion: 168 Resp: 19511

Ion Ratio Lower Upper

168 100

99 63.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

6000

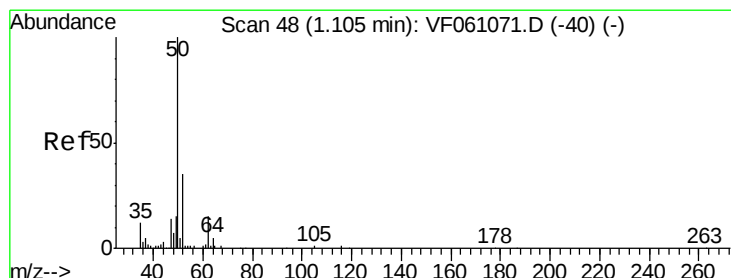
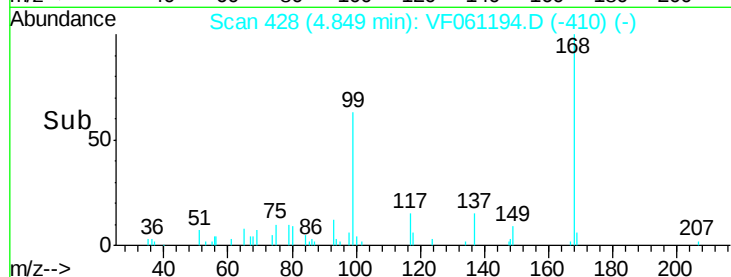
4000

2000

0

Time-->

4.70 4.80 4.90 5.00



#3

Chloromethane

Concen: 1.441 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF061194.D

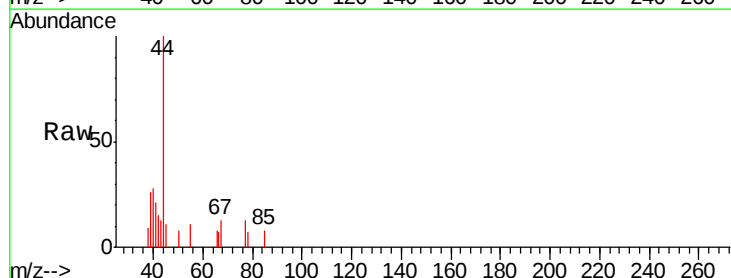
Acq: 26 Dec 2018 18:01

Tgt Ion: 50 Resp: 358

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

150

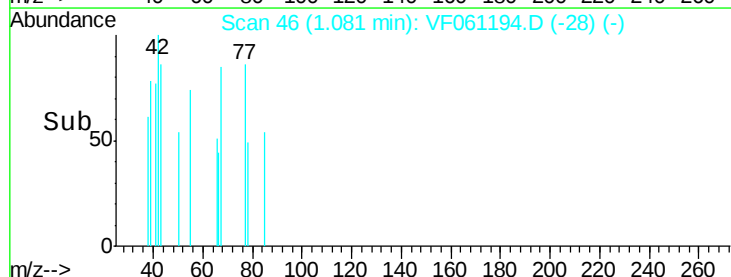
100

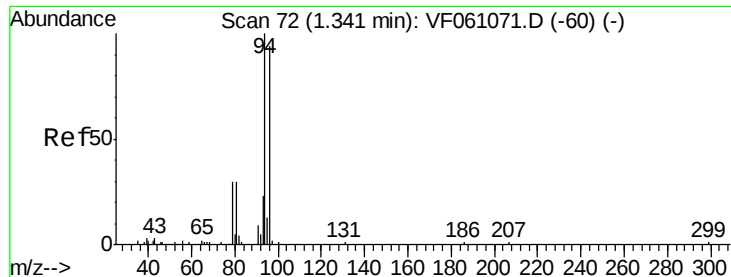
50

0

Time-->

1.00 1.05 1.10





#5

Bromomethane

Concen: 1.401 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

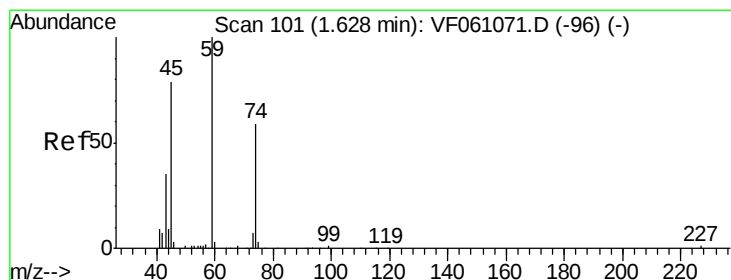
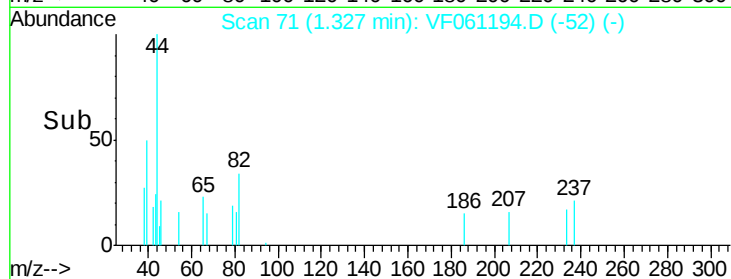
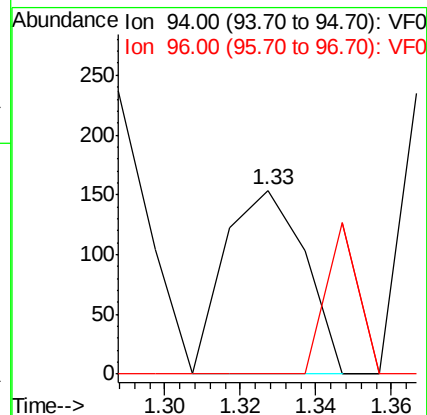
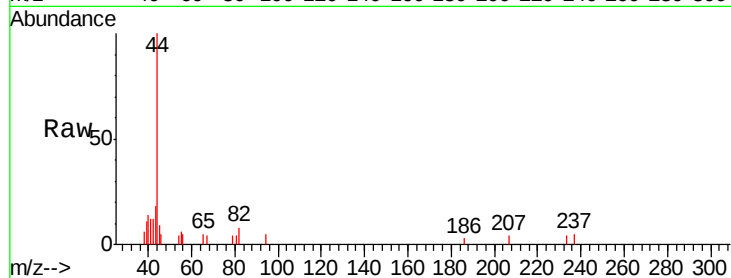
CPIDW02-121218-S

Tgt Ion: 94 Resp: 224

Ion Ratio Lower Upper

94 100

96 0.0 74.4 111.6#



#8

Diethyl Ether

Concen: 1.079 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.16 min

Lab File: VF061194.D

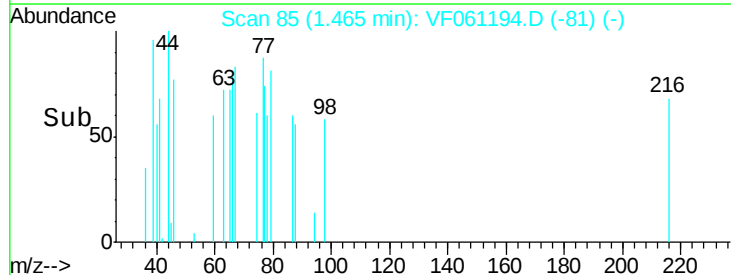
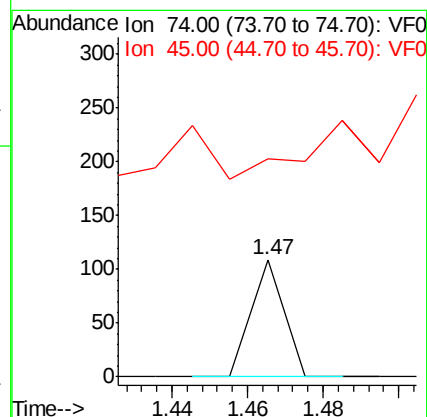
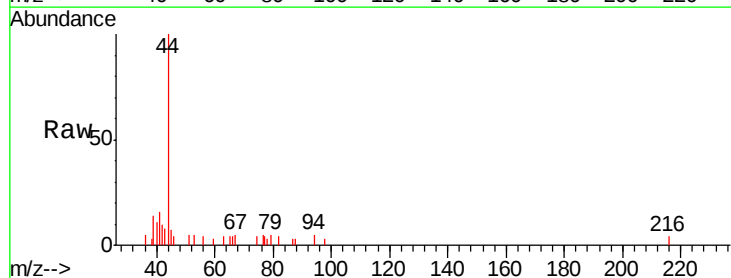
Acq: 26 Dec 2018 18:01

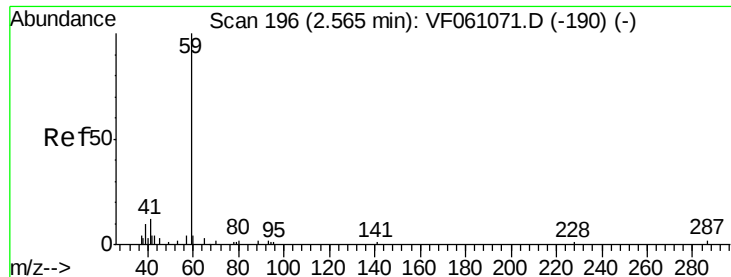
Tgt Ion: 74 Resp: 65

Ion Ratio Lower Upper

74 100

45 186.2 67.8 203.4

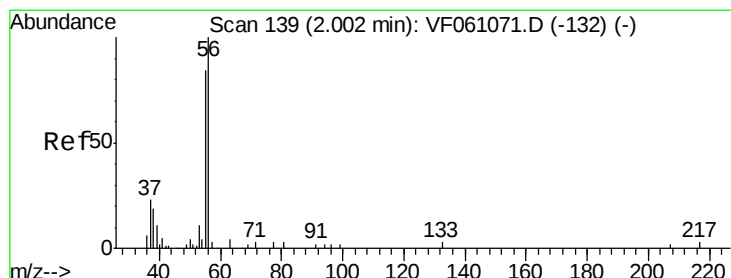
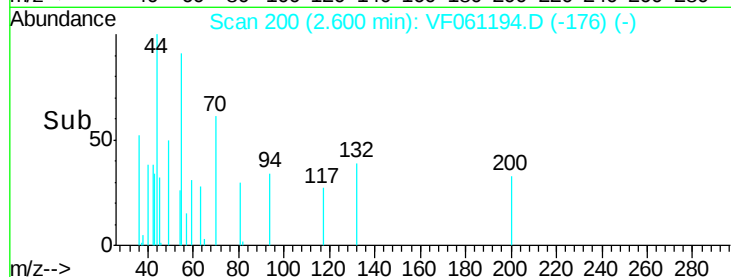
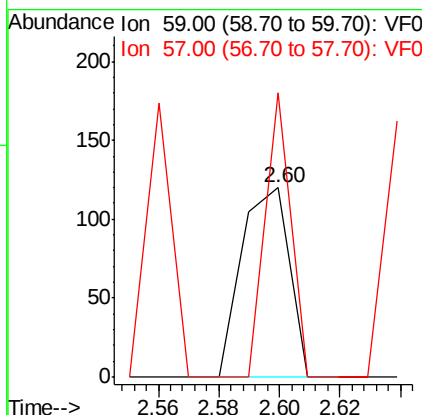
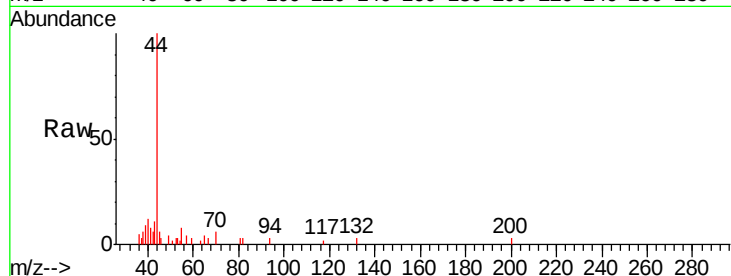




#11
Tert butyl alcohol
Concen: 13.134 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

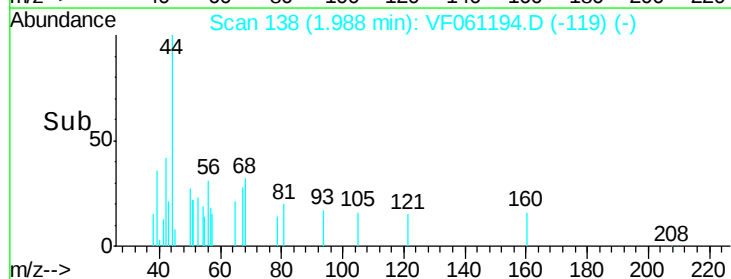
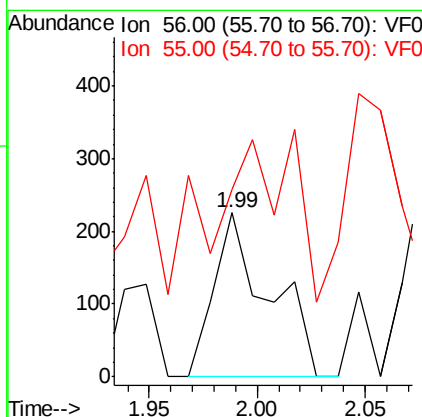
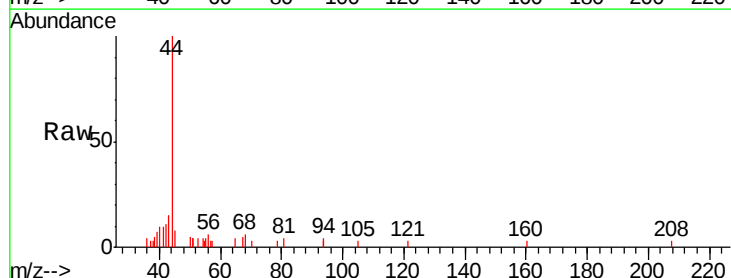
Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

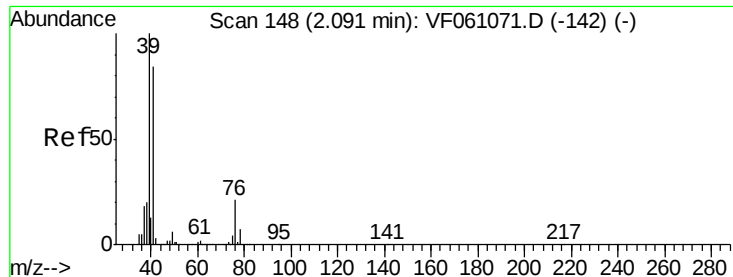
Tgt Ion: 59 Resp: 133
Ion Ratio Lower Upper
59 100
57 150.0 11.5 17.3#



#13
Acrolein
Concen: 54.390 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

Tgt Ion: 56 Resp: 398
Ion Ratio Lower Upper
56 100
55 114.2 70.2 105.2#

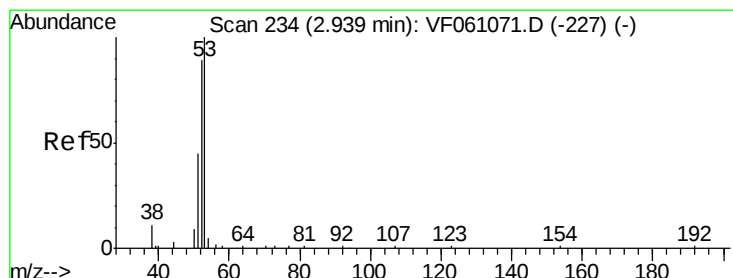
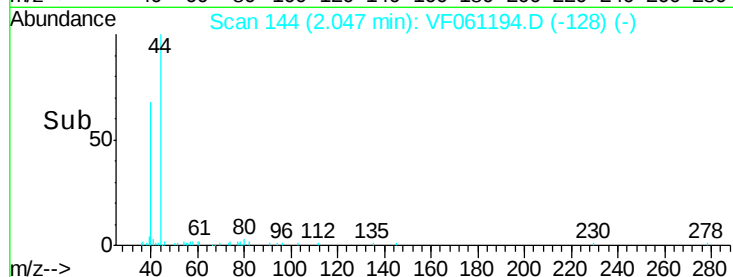
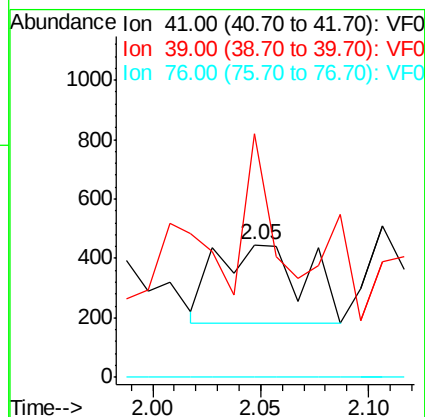
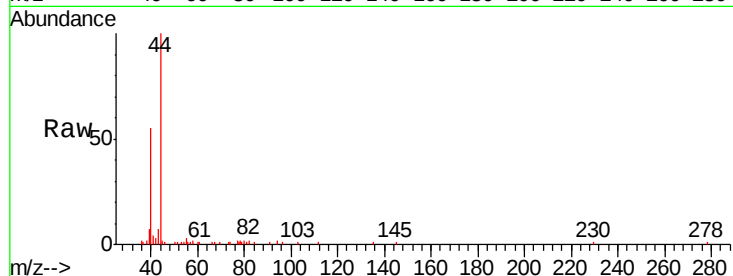




#14
 Allyl chloride
 Concen: 4.174 ug/l
 RT: 2.05 min Scan# 144
 Delta R.T. -0.04 min
 Lab File: VF061194.D
 Acq: 26 Dec 2018 18:01

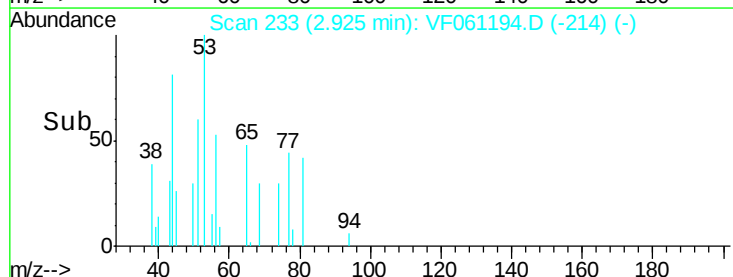
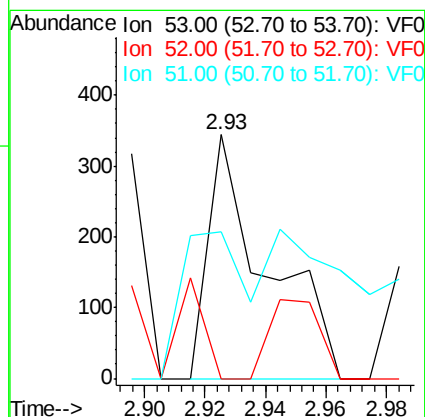
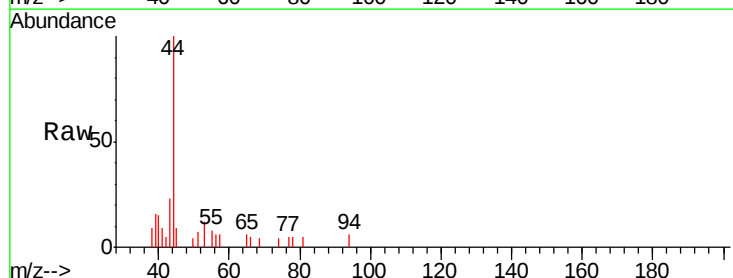
Instrument :
 MSVOA_F
 ClientSampleId :
 CPIDW02-121218-S

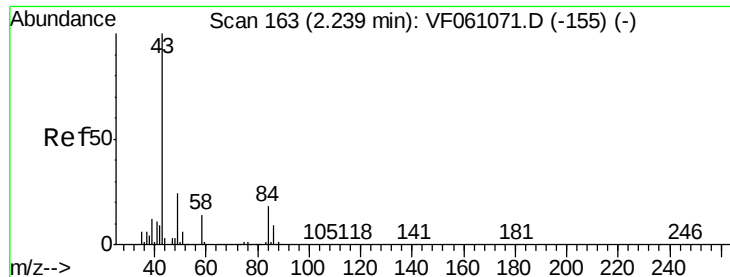
Tgt Ion: 41 Resp: 747
 Ion Ratio Lower Upper
 41 100
 39 183.6 96.4 144.6#
 76 0.0 25.4 38.0#



#15
 Acrylonitrile
 Concen: 19.815 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. -0.01 min
 Lab File: VF061194.D
 Acq: 26 Dec 2018 18:01

Tgt Ion: 53 Resp: 464
 Ion Ratio Lower Upper
 53 100
 52 0.0 71.3 106.9#
 51 60.2 36.8 55.2#





#16

Acetone

Concen: 3.668 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

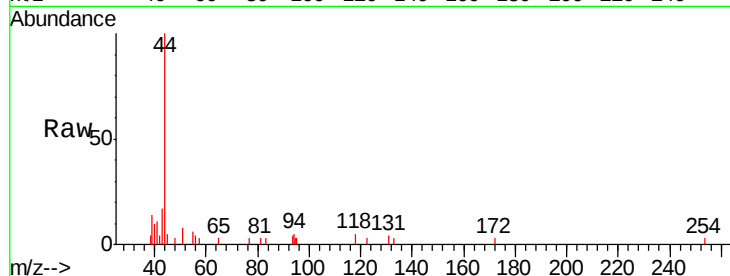
CPIDW02-121218-S

Tgt Ion: 43 Resp: 184

Ion Ratio Lower Upper

43 100

58 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

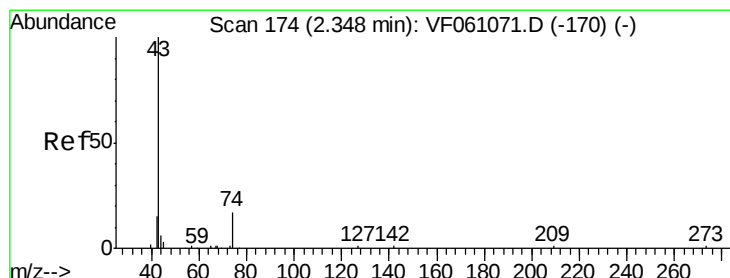
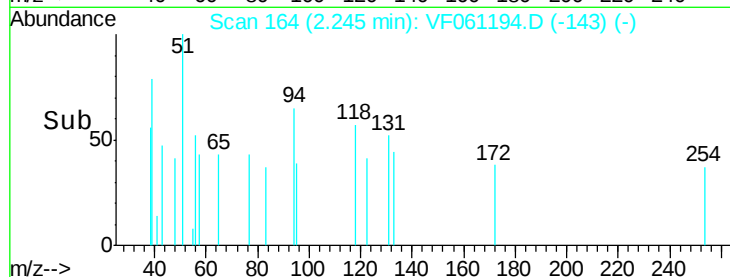
2.24

400

200

0

Time-->



#18

Methyl Acetate

Concen: 5.636 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.00 min

Lab File: VF061194.D

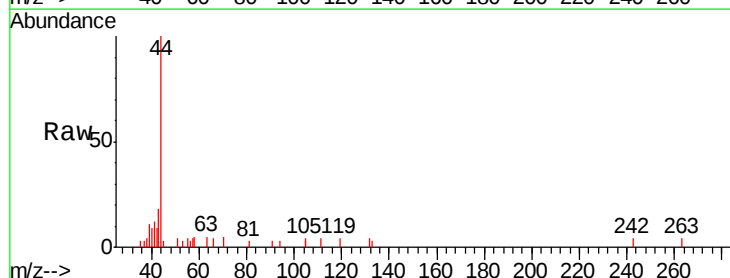
Acq: 26 Dec 2018 18:01

Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

74 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

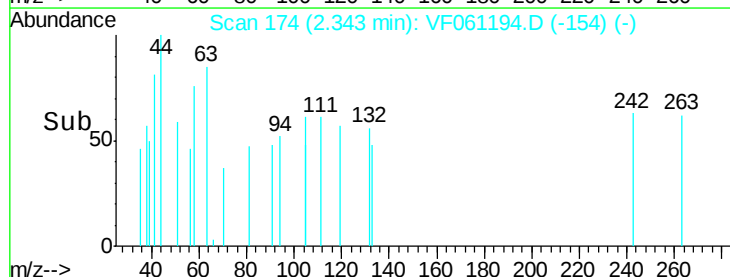
2.34

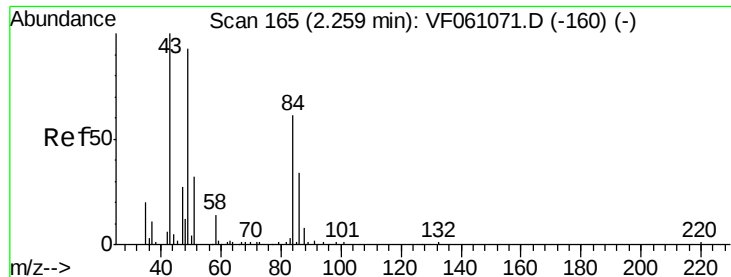
400

200

0

Time-->

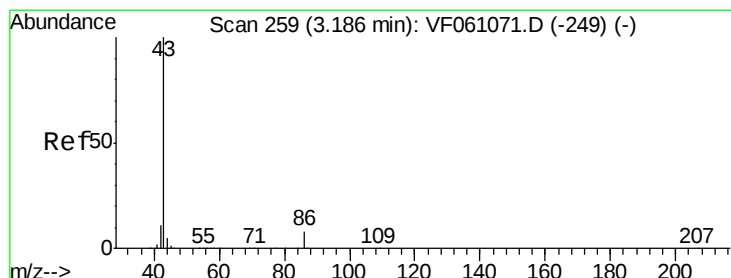
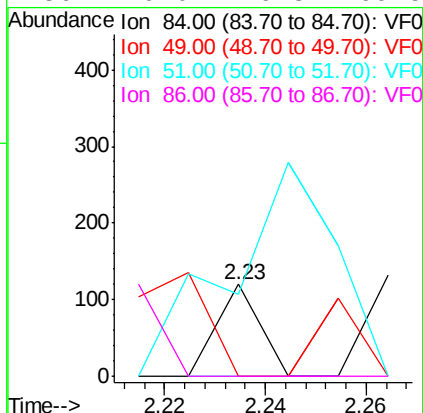
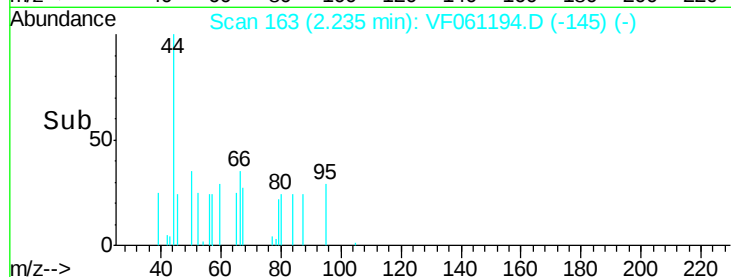
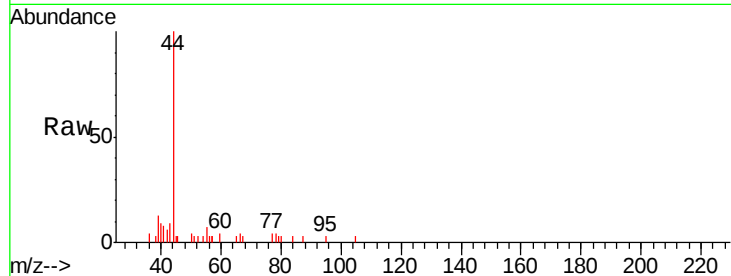




#20
Methylene Chloride
Concen: Below Cal
RT: 2.23 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

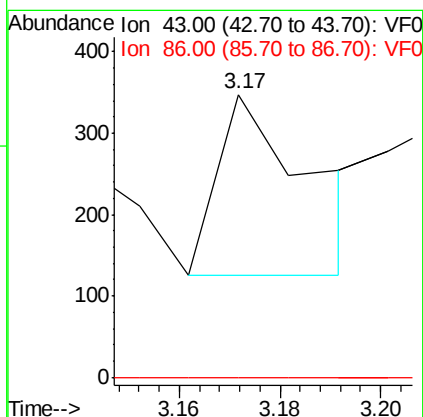
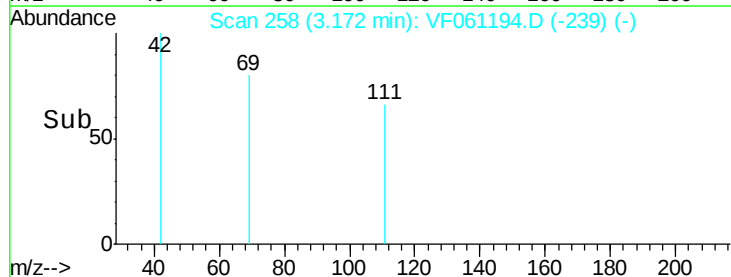
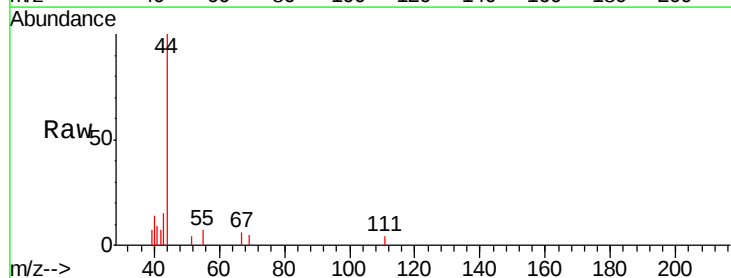
Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

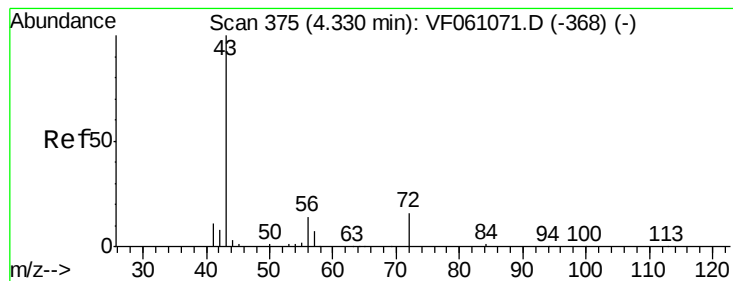
Tgt Ion: 84 Resp: 71
Ion Ratio Lower Upper
84 100
49 0.0 129.4 194.2#
51 89.2 44.0 66.0#
86 0.0 46.3 69.5#



#23
Vinyl Acetate
Concen: 1.025 ug/l
RT: 3.17 min Scan# 258
Delta R.T. -0.01 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

Tgt Ion: 43 Resp: 282
Ion Ratio Lower Upper
43 100
86 0.0 6.3 9.5#





#25

2-Butanone

Concen: 4.437 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

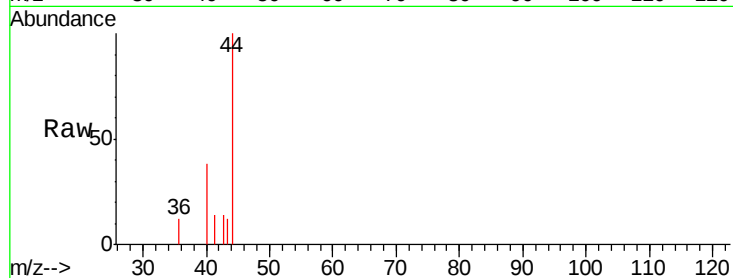
CPIDW02-121218-S

Tgt Ion: 43 Resp: 361

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.35

250

200

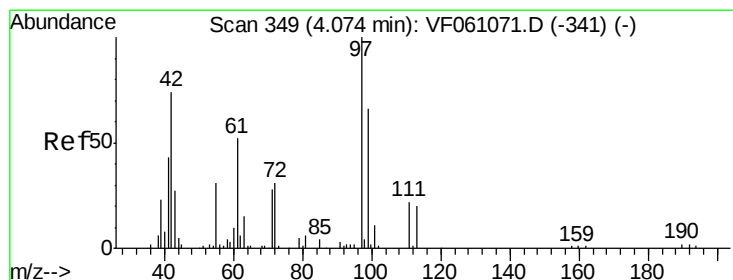
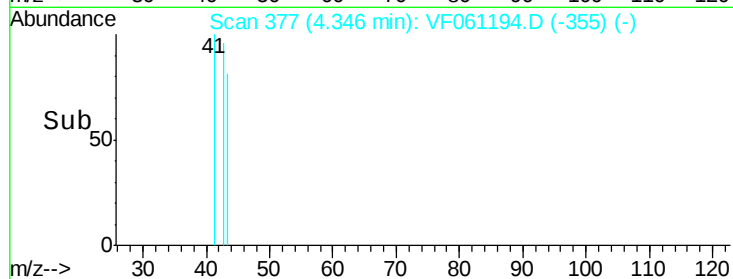
150

100

50

0

Time-->



#29

Tetrahydrofuran

Concen: 5.617 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

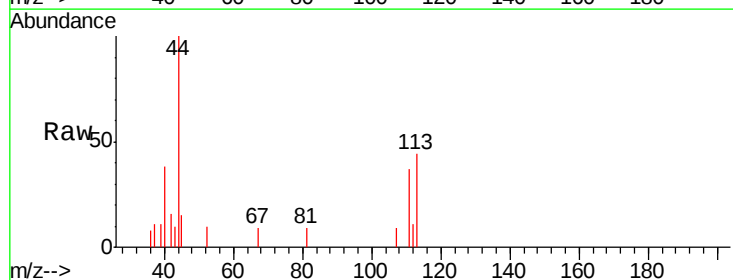
Tgt Ion: 42 Resp: 186

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#



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

4.06

250

200

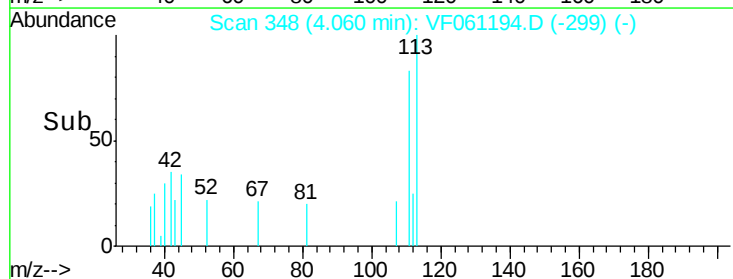
150

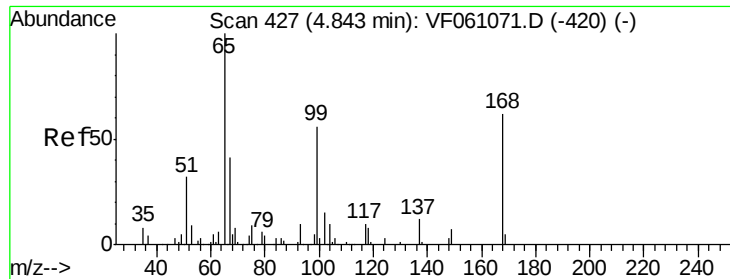
100

50

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 13.868 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

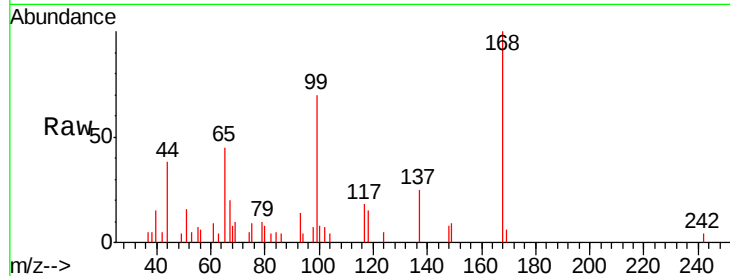
CPIDW02-121218-S

Tgt Ion: 65 Resp: 3480

Ion Ratio Lower Upper

65 100

67 45.3 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

1500

1000

500

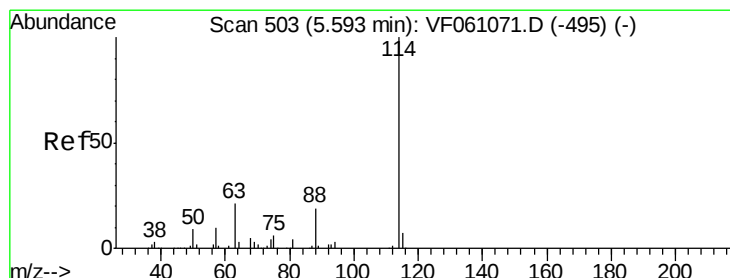
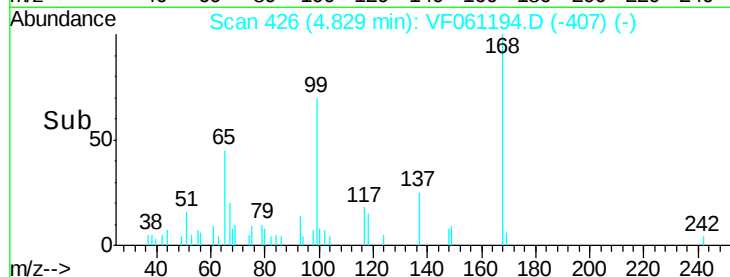
0

4.80

4.83

4.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

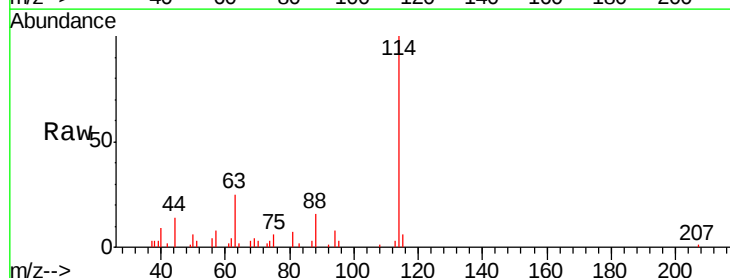
Tgt Ion: 114 Resp: 24036

Ion Ratio Lower Upper

114 100

63 24.5 0.0 41.6

88 16.2 0.0 38.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

12000

10000

8000

6000

4000

2000

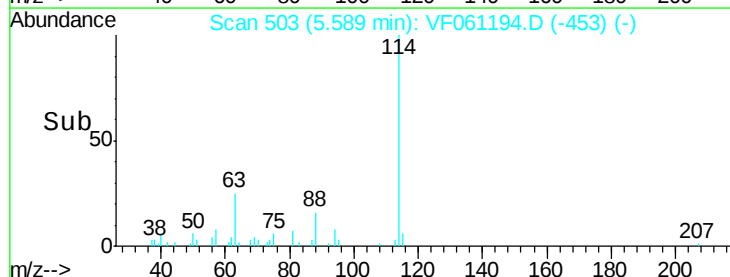
0

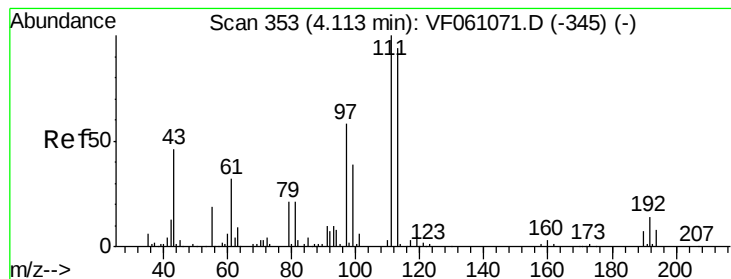
5.50

5.59

5.70

Time-->





#35

Dibromofluoromethane

Concen: 30.762 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

CPIDW02-121218-S

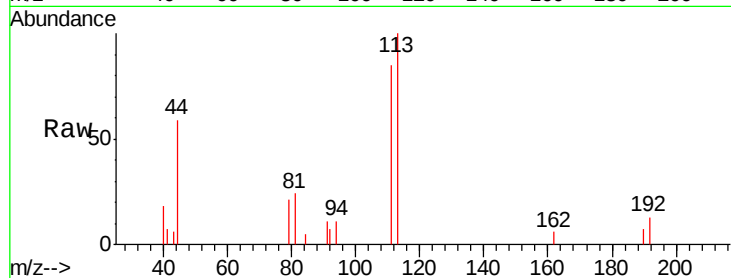
Tgt Ion:113 Resp: 5923

Ion Ratio Lower Upper

113 100

111 85.1 85.2 127.8#

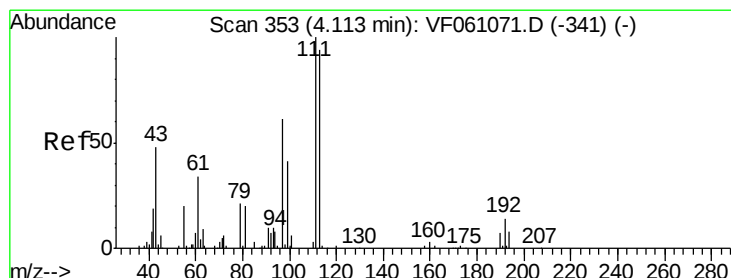
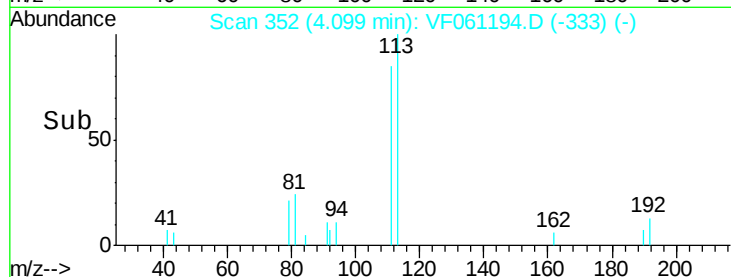
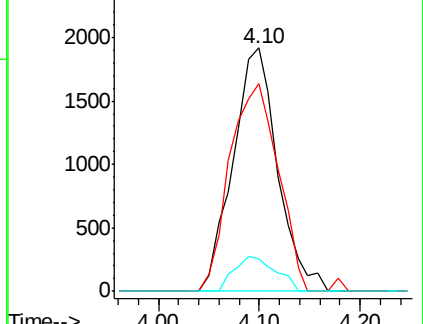
192 13.2 12.8 19.2



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



#37

Ethyl Acetate

Concen: 1.598 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

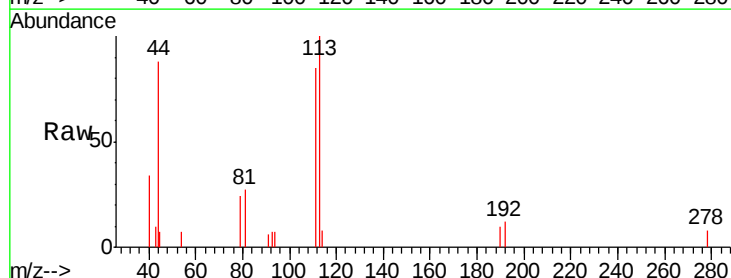
Tgt Ion: 43 Resp: 230

Ion Ratio Lower Upper

43 100

61 0.0 56.6 84.8#

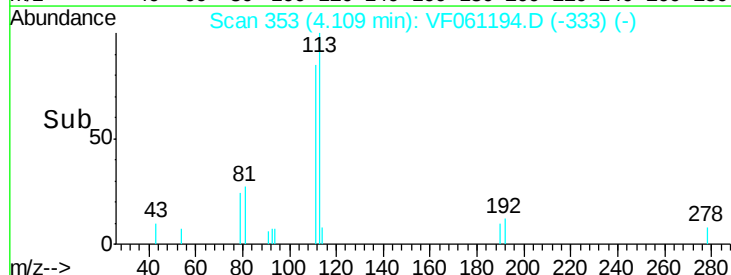
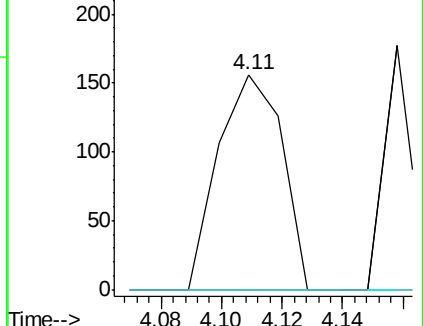
70 0.0 6.3 9.5#

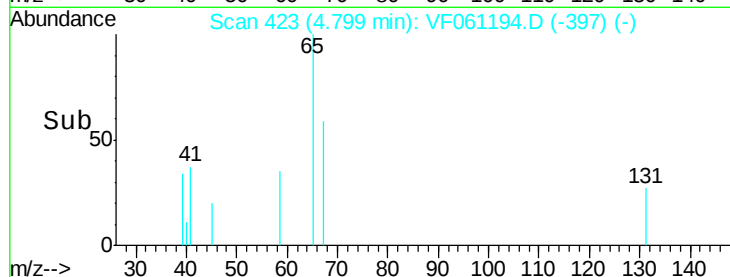
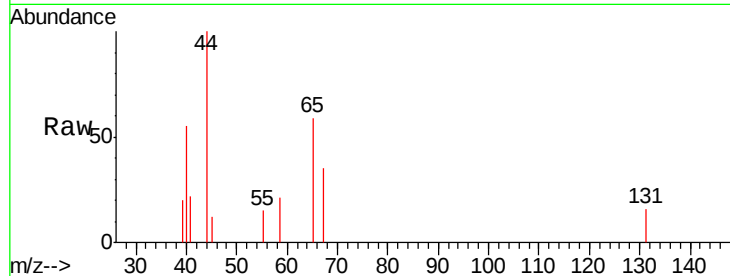
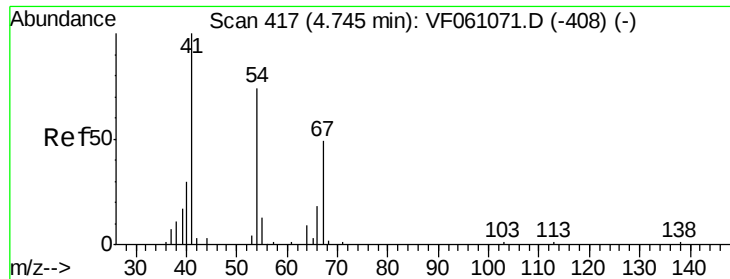


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

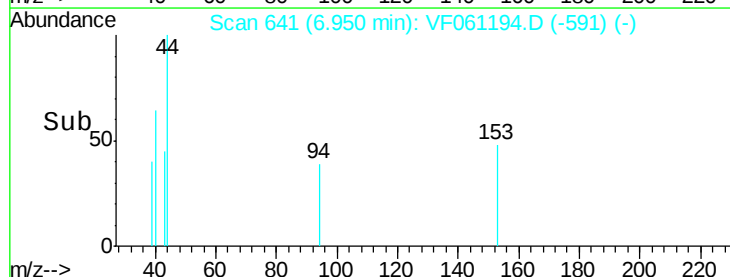
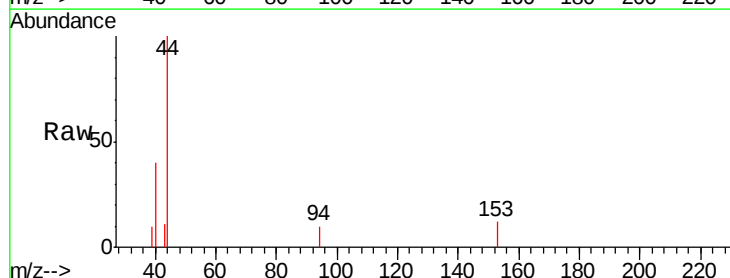
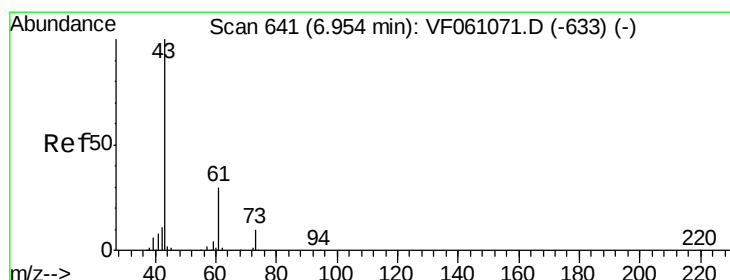
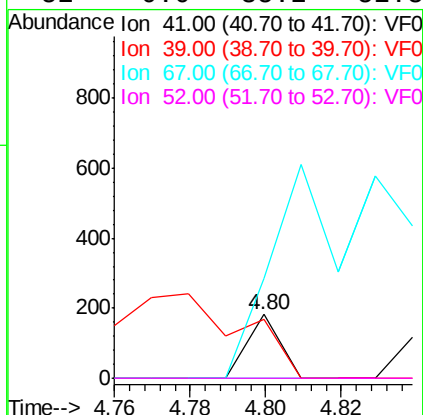




#41
Methacrylonitrile
Concen: 1.763 ug/l
RT: 4.80 min Scan# 423
Delta R.T. 0.05 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

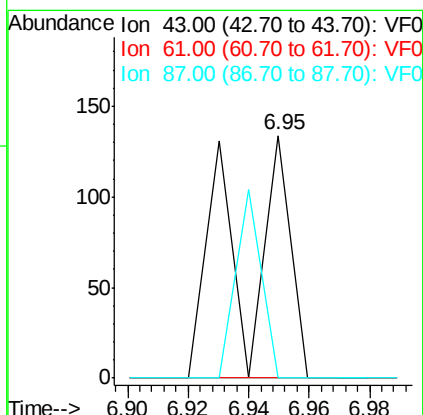
Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

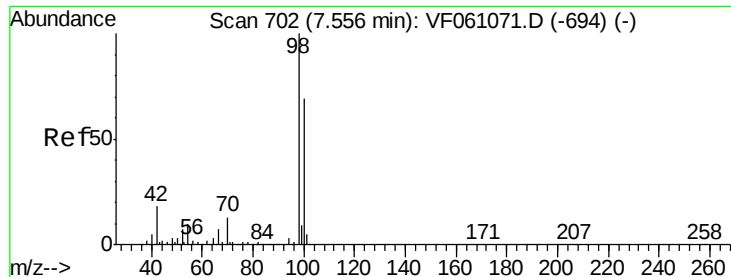
Tgt Ion:	41	Resp:	108
Ion	Ratio	Lower	Upper
41	100		
39	91.8	45.7	68.5#
67	157.7	38.9	58.3#
52	0.0	35.2	52.8#



#43
Isopropyl Acetate
Concen: 1.121 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

Tgt Ion:	43	Resp:	157
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	0.0	0.0	0.0





#50

Toluene-d8

Concen: 38.322 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

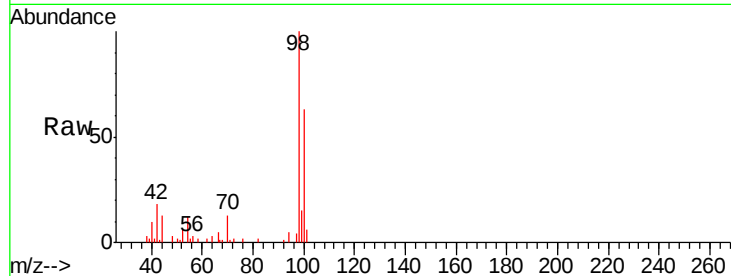
CPIDW02-121218-S

Tgt Ion: 98 Resp: 20910

Ion Ratio Lower Upper

98 100

100 63.3 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.54

10000

8000

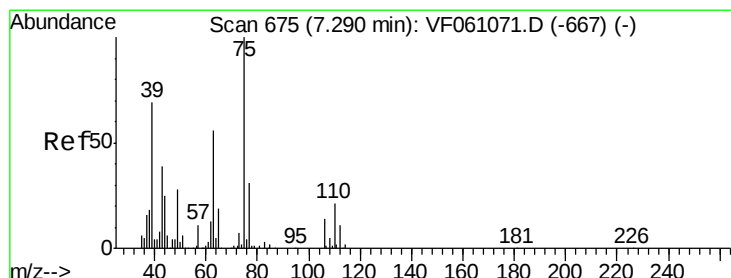
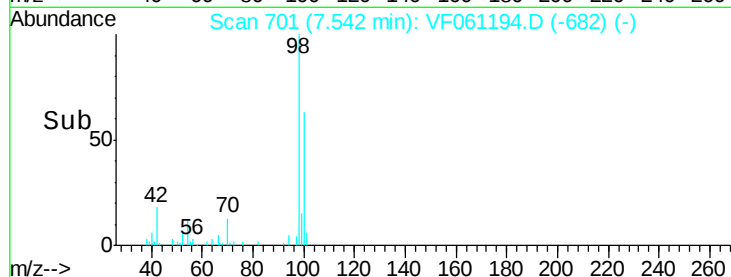
6000

4000

2000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.526 ug/l

RT: 7.18 min Scan# 664

Delta R.T. -0.11 min

Lab File: VF061194.D

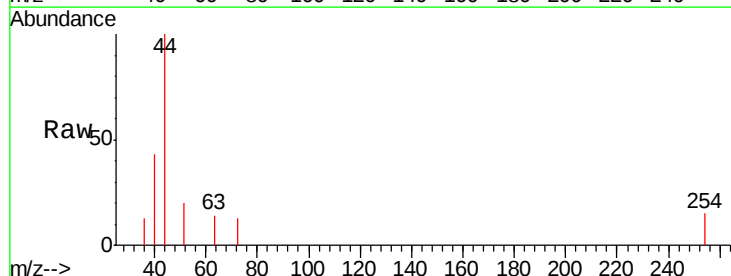
Acq: 26 Dec 2018 18:01

Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.18

120

100

80

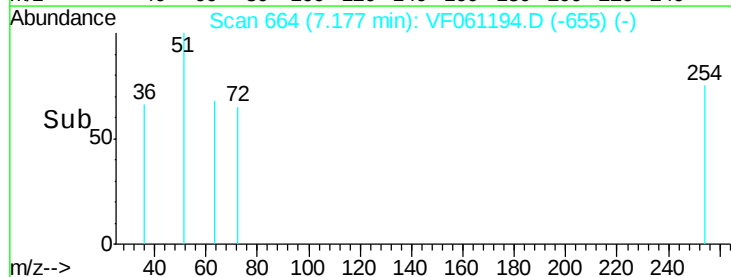
60

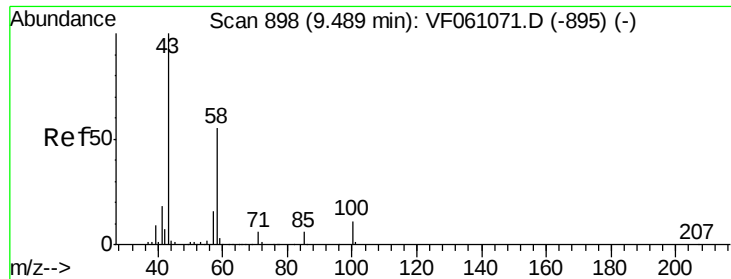
40

20

0

Time-->





#59

2-Hexanone

Concen: 7.412 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

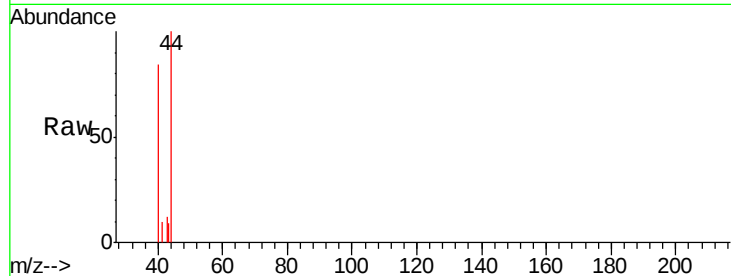
CPIDW02-121218-S

Tgt Ion: 43 Resp: 515

Ion Ratio Lower Upper

43 100

58 0.0 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.50

250

200

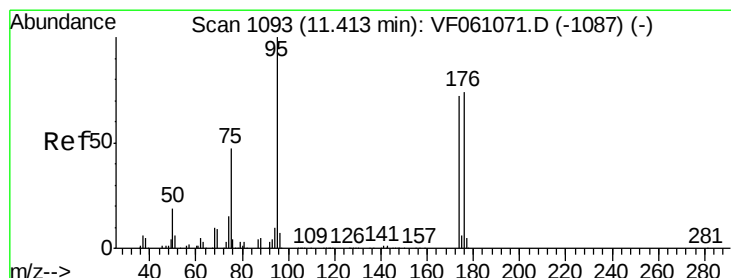
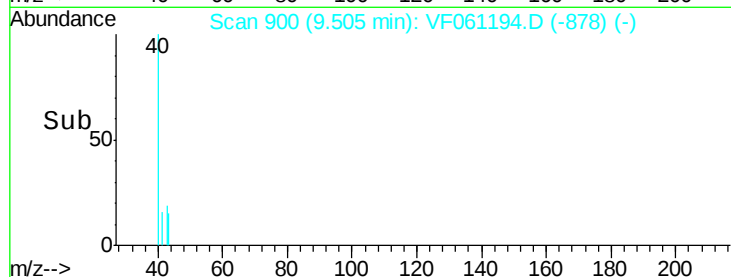
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 25.116 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

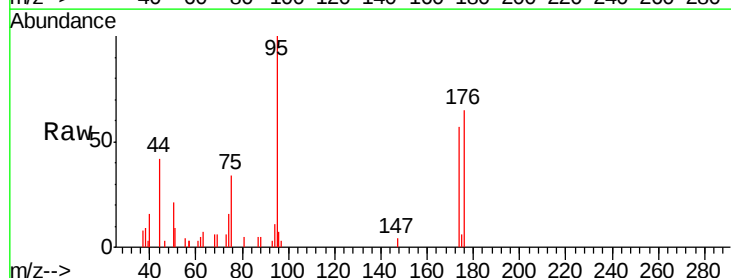
Tgt Ion: 95 Resp: 6318

Ion Ratio Lower Upper

95 100

174 57.3 0.0 143.8

176 64.8 0.0 147.6



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

11.40

5000

4000

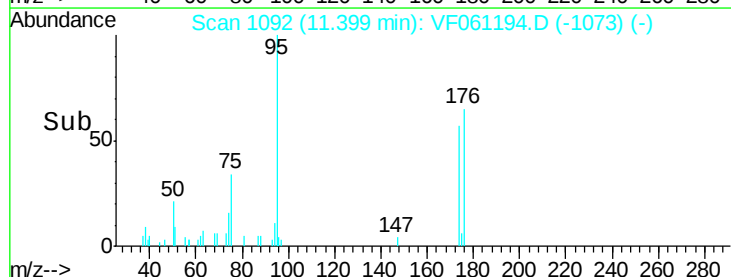
3000

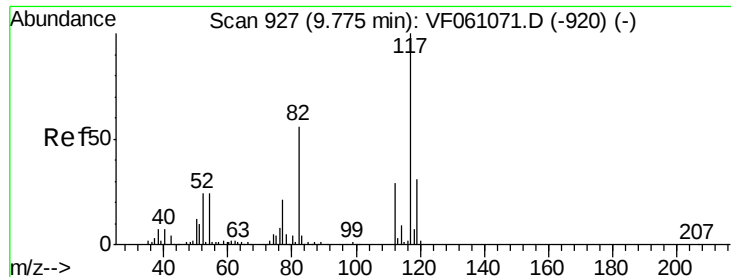
2000

1000

0

Time-->

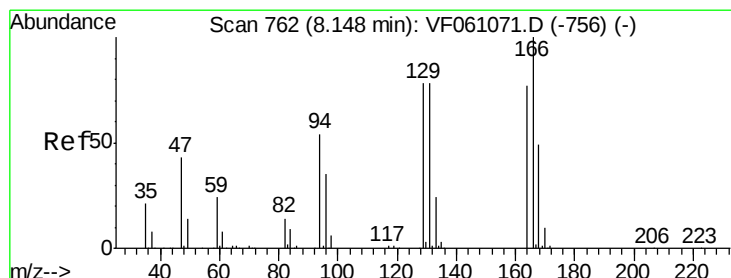
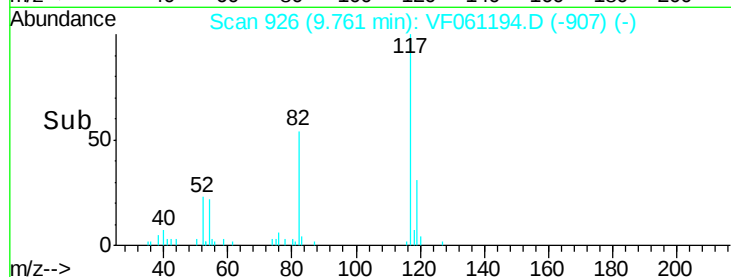
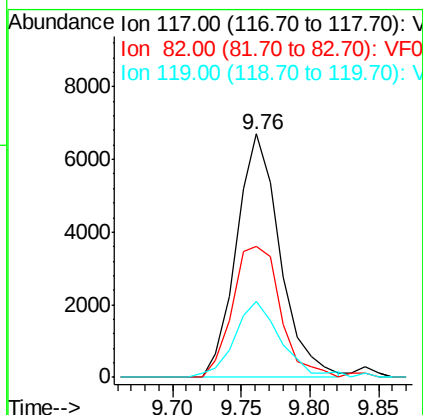
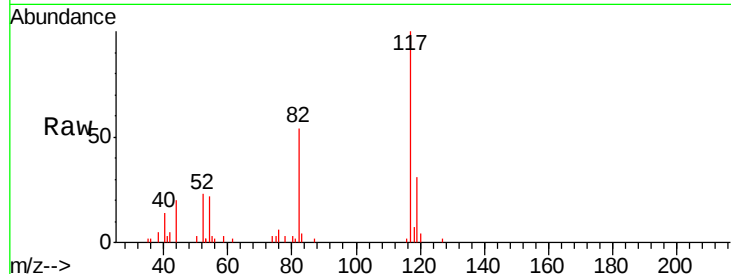




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

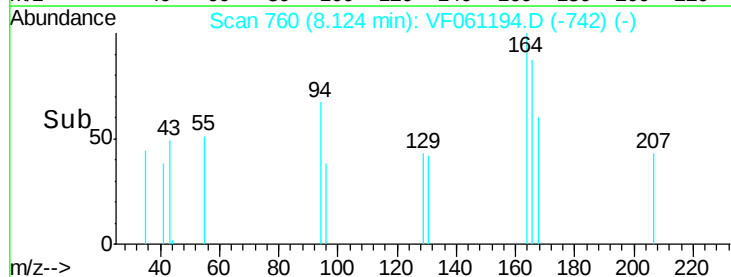
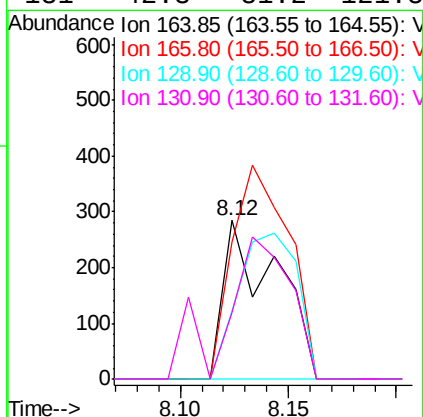
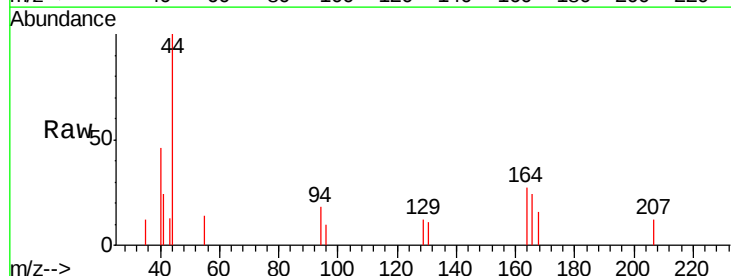
Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

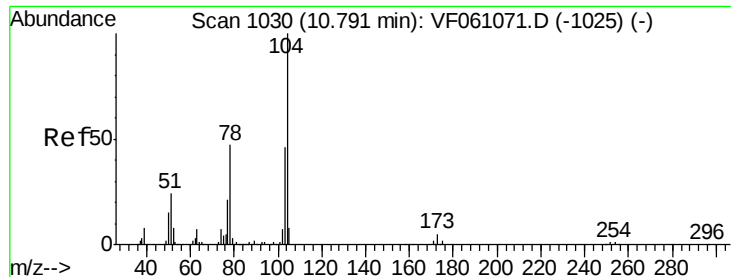
Tgt Ion:117 Resp: 14792
Ion Ratio Lower Upper
117 100
82 53.6 45.0 67.4
119 31.2 24.8 37.2



#64
Tetrachloroethene
Concen: 4.227 ug/l
RT: 8.12 min Scan# 760
Delta R.T. -0.02 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

Tgt Ion:164 Resp: 481
Ion Ratio Lower Upper
164 100
166 87.0 104.0 156.0#
129 43.3 81.1 121.7#
131 42.3 81.2 121.8#

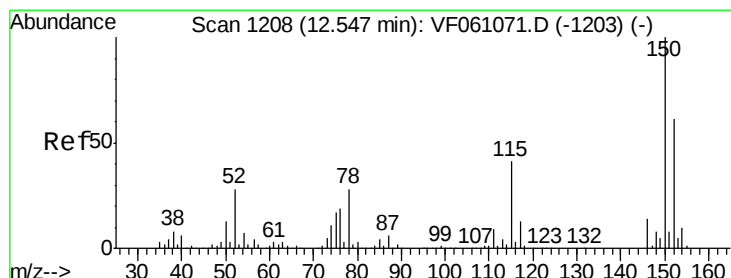
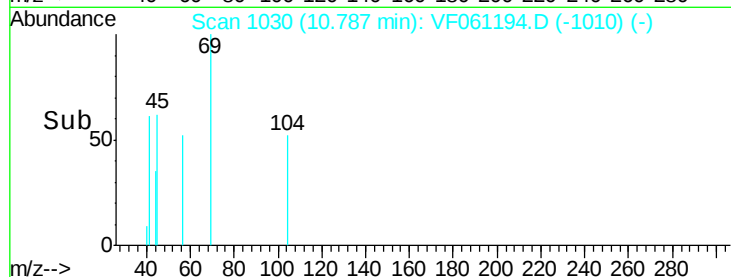
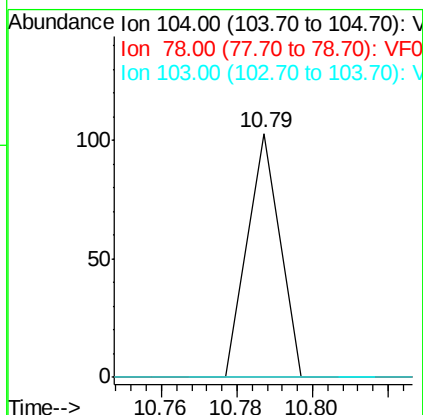
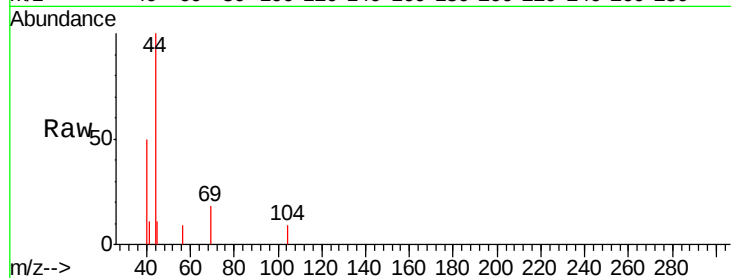




#70
Styrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

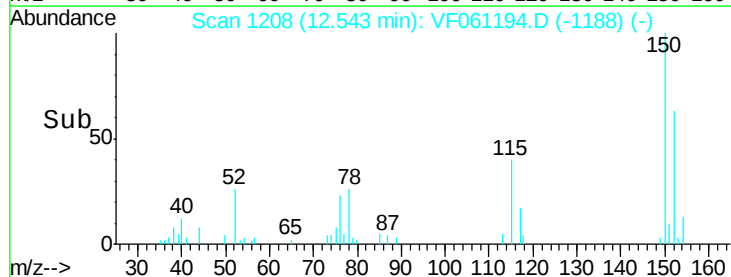
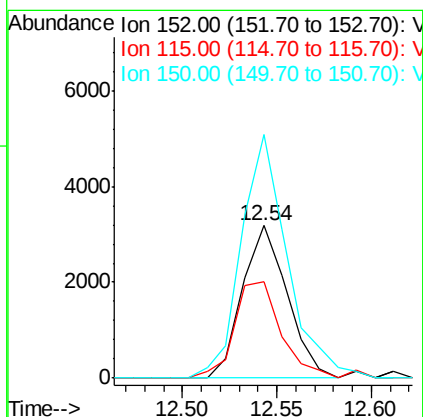
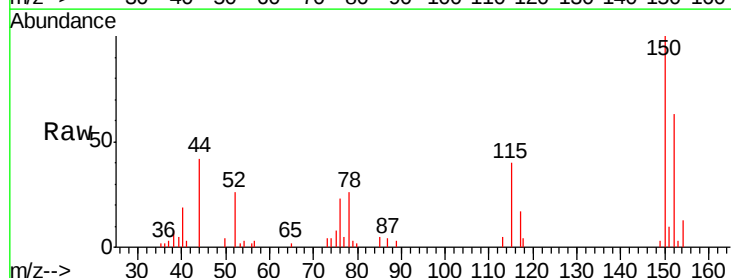
Instrument :
MSVOA_F
ClientSampleId :
CPIDW02-121218-S

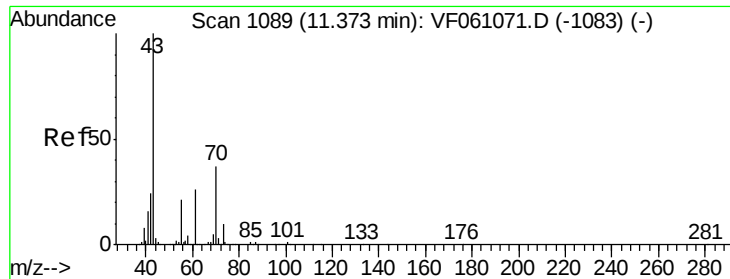
Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 0.0 38.4 57.6#
103 0.0 37.0 55.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061194.D
Acq: 26 Dec 2018 18:01

Tgt Ion:152 Resp: 5226
Ion Ratio Lower Upper
152 100
115 63.2 33.3 99.9
150 159.6 0.0 328.2





#74

N-ethyl acetate

Concen: 1.880 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Instrument :

MSVOA_F

ClientSampleId :

CPIDW02-121218-S

Tgt Ion: 43 Resp: 188

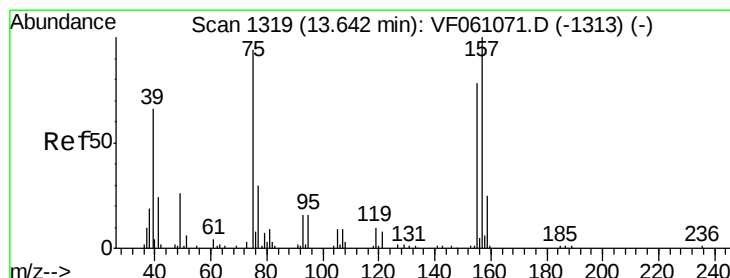
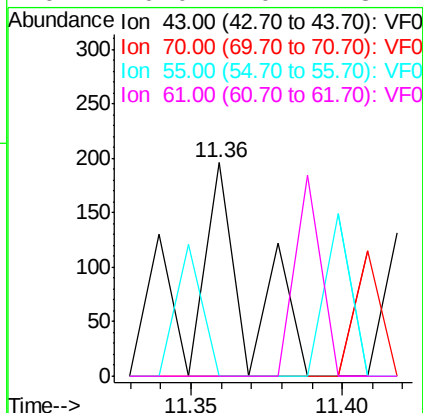
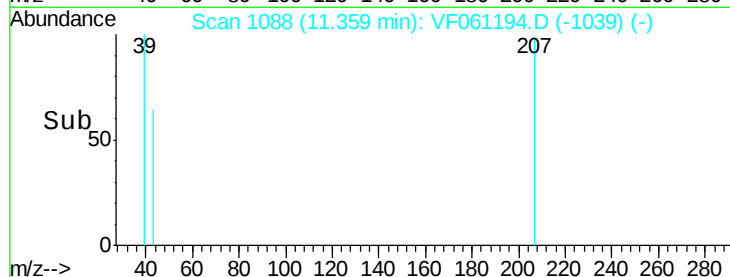
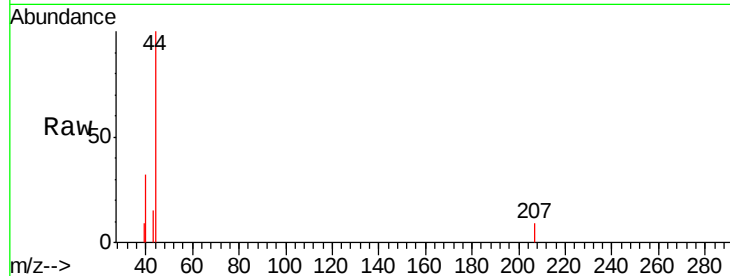
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 0.0 16.5 24.7#

61 0.0 20.7 31.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.739 ug/l

RT: 13.57 min Scan# 1312

Delta R.T. -0.07 min

Lab File: VF061194.D

Acq: 26 Dec 2018 18:01

Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#

