

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060861.D
 Acq On : 28 Nov 2018 17:36
 Operator : VA/AP
 Sample : J5767-21RE
 Misc : 6.81g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-112818-CRE

Quant Time: Nov 29 03:30:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	190233	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	323975	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	281381	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	137979	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	128303	57.25	ug/l	-0.01
Spiked Amount			Recovery	=	114.50%	
35) Dibromofluoromethane	4.14	113	138488	53.88	ug/l	-0.01
Spiked Amount			Recovery	=	107.76%	
50) Toluene-d8	7.58	98	345455	45.63	ug/l	-0.01
Spiked Amount			Recovery	=	91.26%	
62) 4-Bromofluorobenzene	11.43	95	155969	45.33	ug/l	-0.01
Spiked Amount			Recovery	=	90.66%	

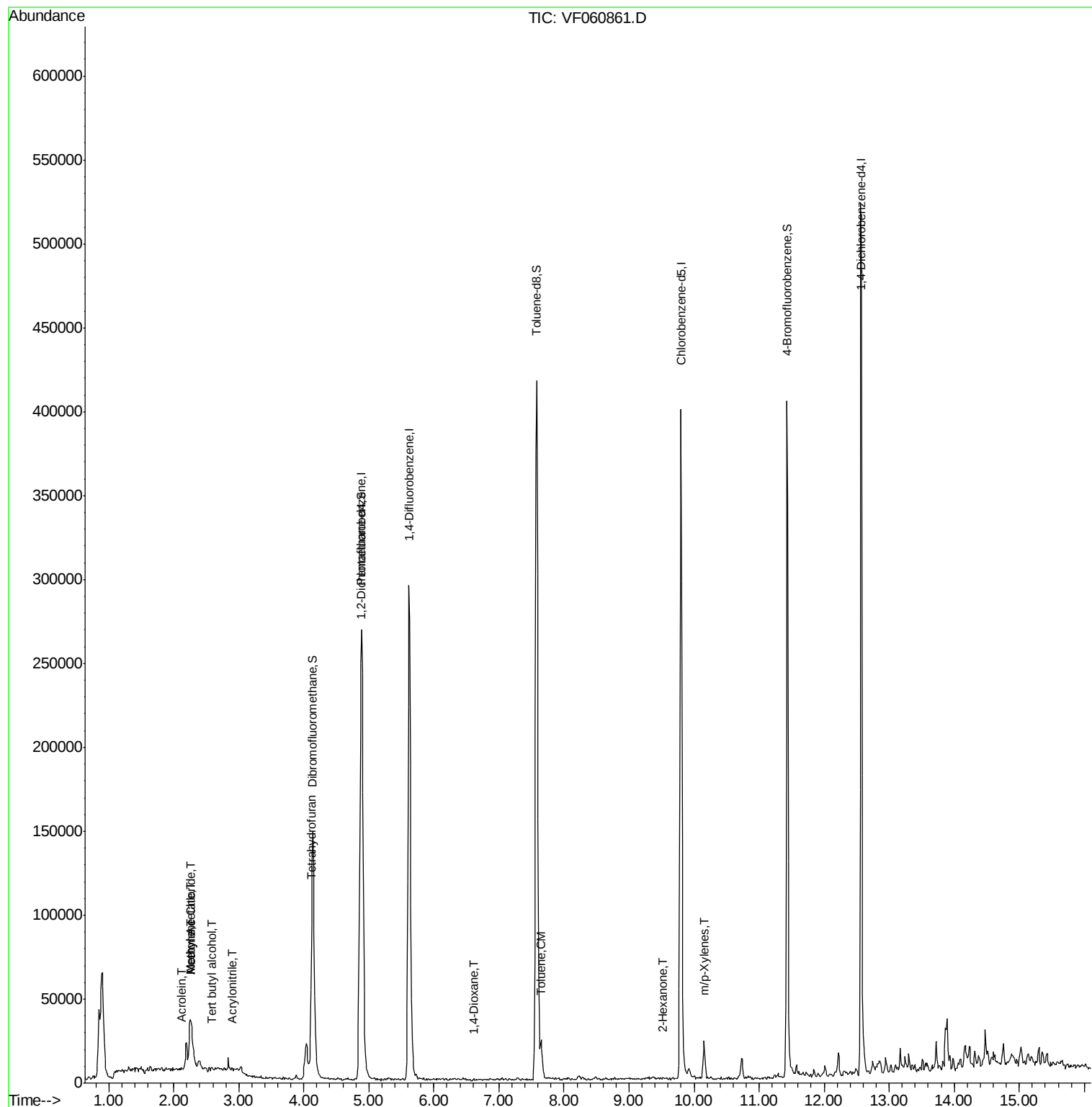
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	433	4.713	ug/l #	70
13) Acrolein	2.13	56	716	8.226	ug/l	99
15) Acrylonitrile	2.91	53	894	4.341	ug/l #	36
16) Acetone	2.24	43	33237	80.427	ug/l	96
18) Methyl Acetate	2.24	43	32676	47.033	ug/l #	61
20) Methylene Chloride	2.25	84	13292	8.768	ug/l	96
29) Tetrahydrofuran	4.11	42	428	1.413	ug/l #	84
41) Methacrylonitrile	4.74	41	185	Below Cal	#	54
43) Isopropyl Acetate	6.97	43	485	Below Cal	#	49
49) 1,4-Dioxane	6.60	88	82	8.476	ug/l #	22
52) Toluene	7.65	92	11081	1.987	ug/l	84
59) 2-Hexanone	9.52	43	1472	1.558	ug/l	82
68) m/p-Xylenes	10.16	106	6941	1.894	ug/l	79
95) Naphthalene	14.47	128	8803	Below Cal	#	94

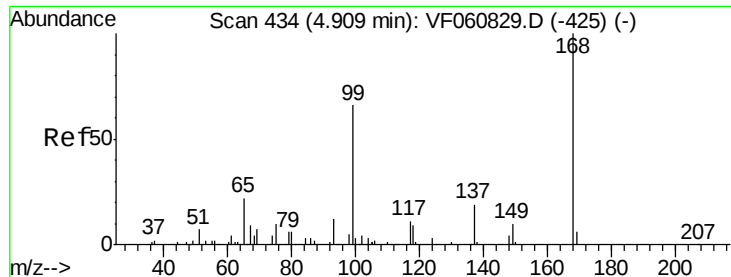
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

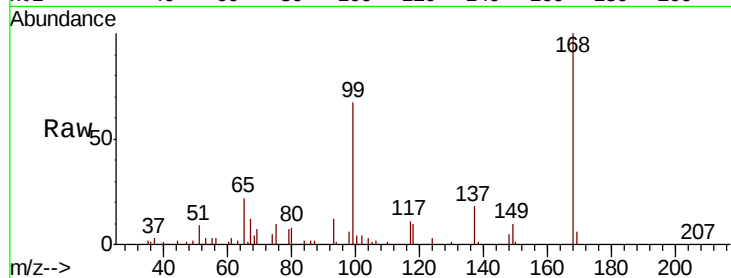
CL-02-112818-CRE

Tot Ion:168 Resp: 190233

Ion Ratio Lower Upper

168 100

99 67.2 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

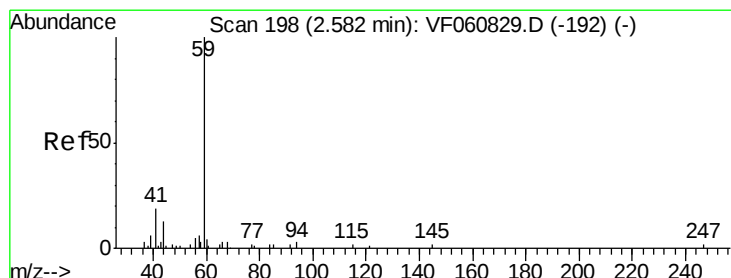
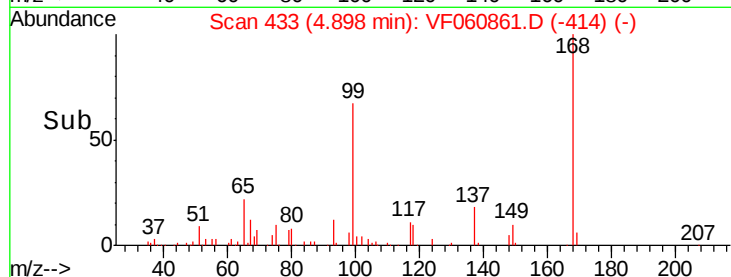
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 4.713 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060861.D

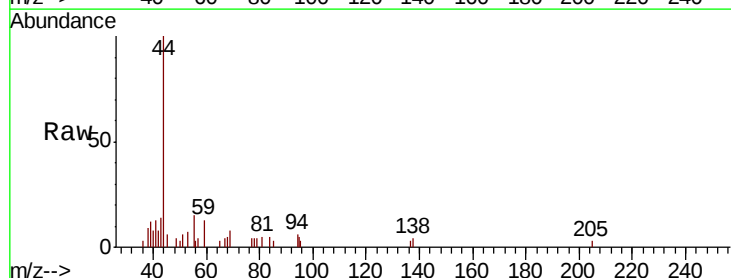
Acq: 28 Nov 2018 17:36

Tgt Ion: 59 Resp: 433

Ion Ratio Lower Upper

59 100

57 28.6 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

600

500

400

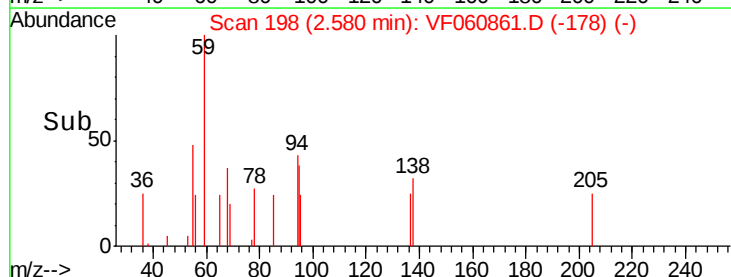
300

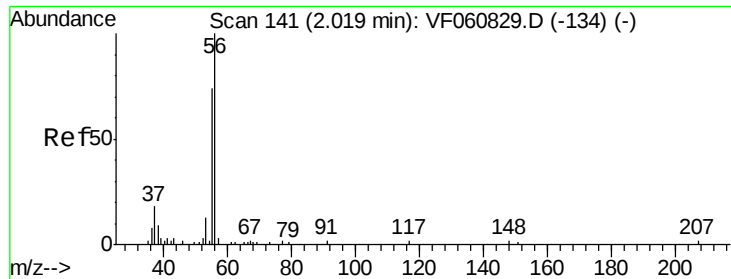
200

100

0

Time--> 2.52 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 8.226 ug/l

RT: 2.13 min Scan# 152

Delta R.T. 0.11 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

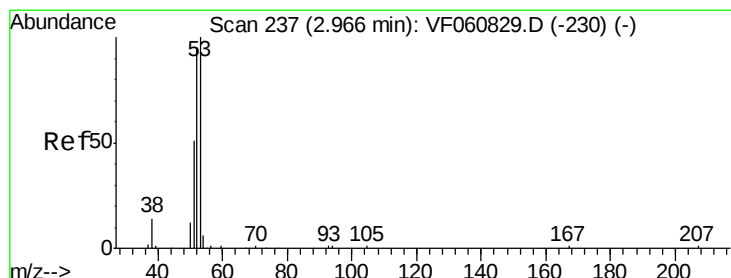
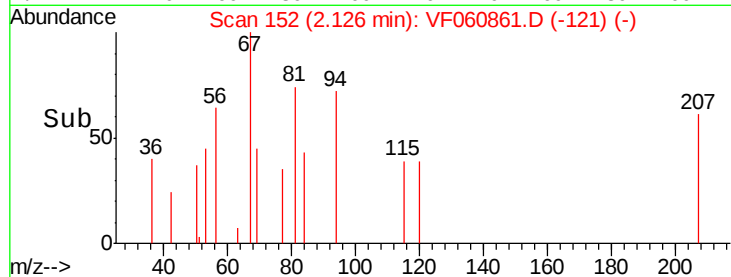
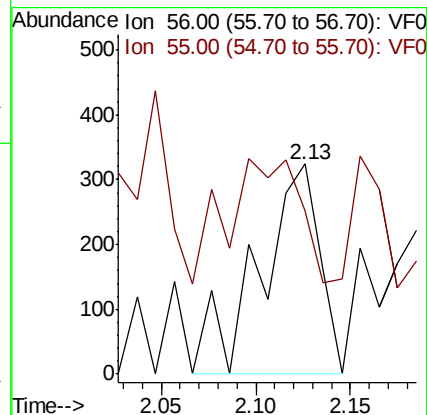
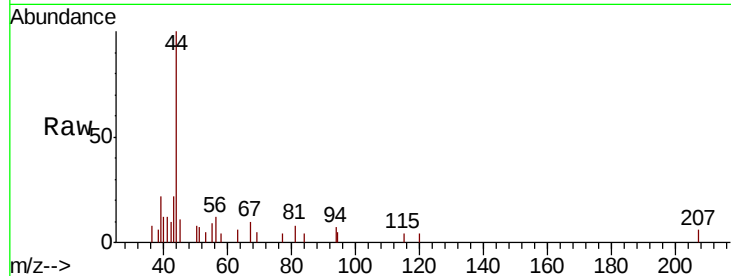
CL-02-112818-CRE

Tot Ion: 56 Resp: 716

Ion Ratio Lower Upper

56 100

55 77.8 61.2 91.8



#15

Acrylonitrile

Concen: 4.341 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.06 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

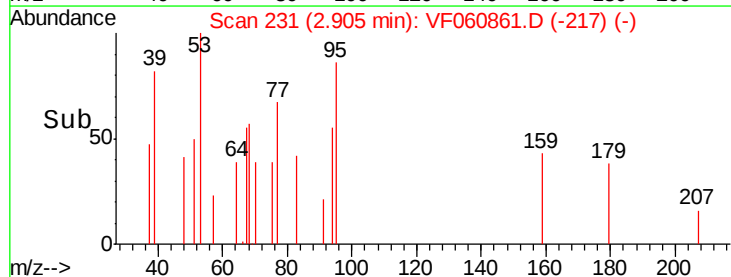
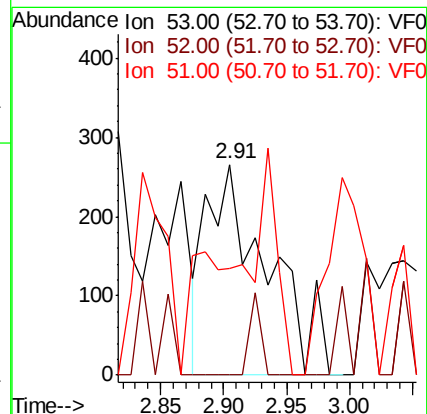
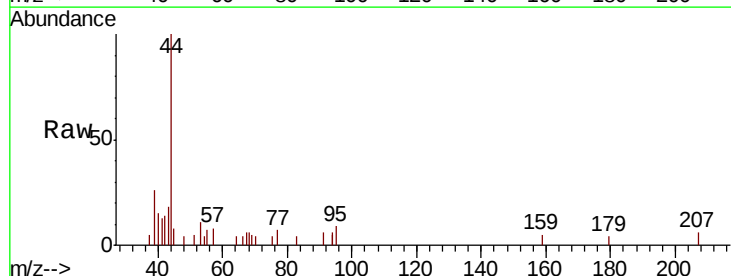
Tgt Ion: 53 Resp: 894

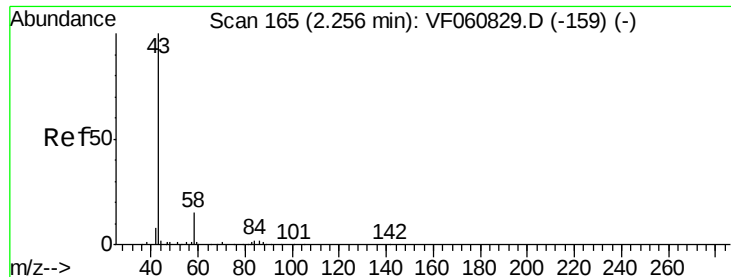
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 50.4 40.7 61.1

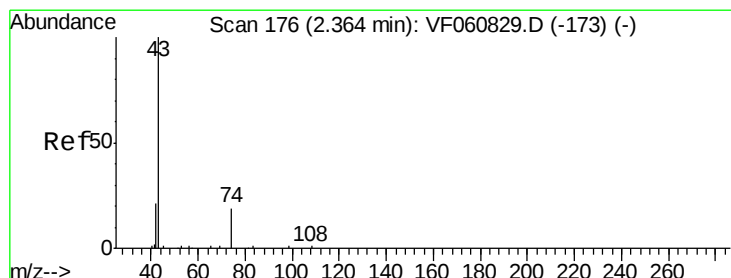
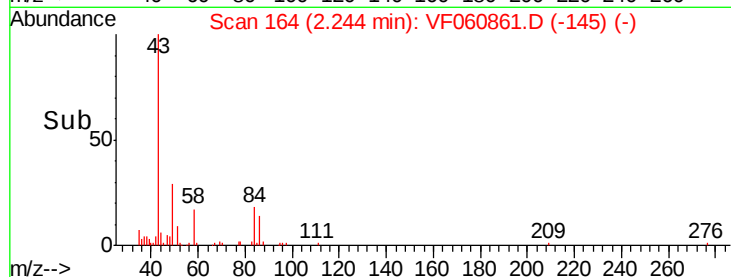
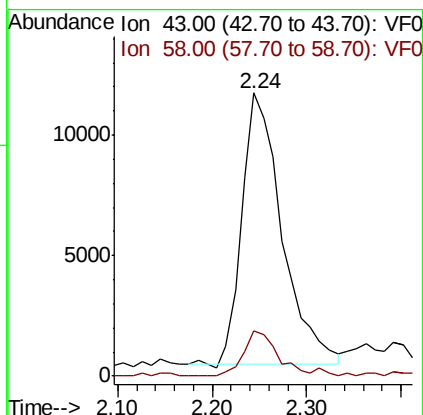
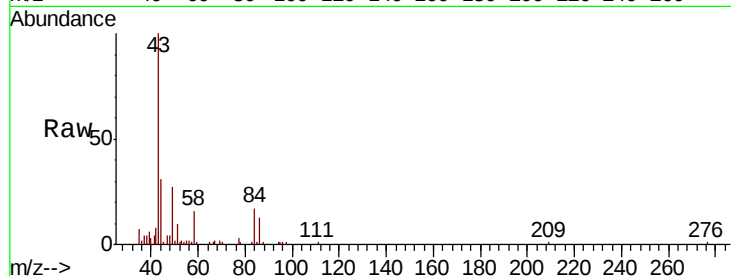




#16
Acetone
Concen: 80.427 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

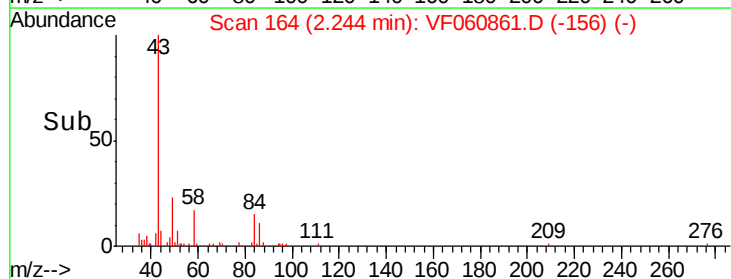
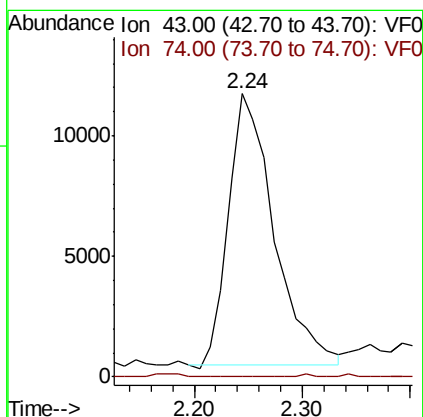
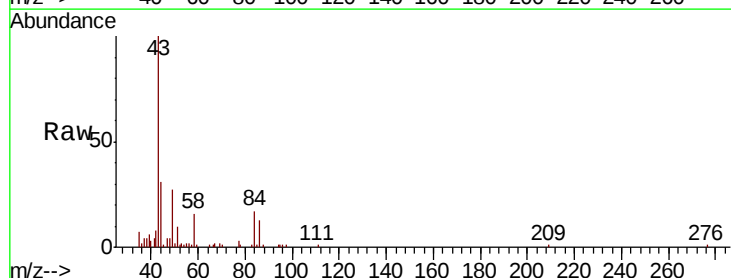
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-CRE

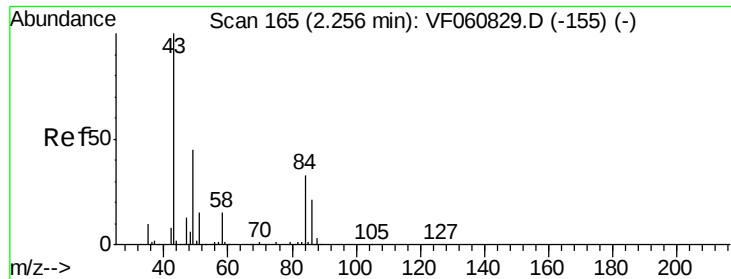
Tot Ion: 43 Resp: 33237
Ion Ratio Lower Upper
43 100
58 15.8 11.4 17.2



#18
Methyl Acetate
Concen: 47.033 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.12 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Tgt Ion: 43 Resp: 32676
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#

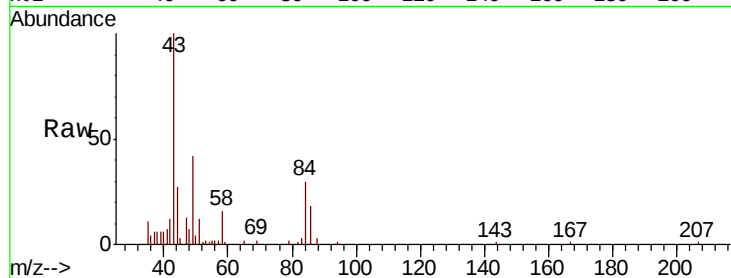




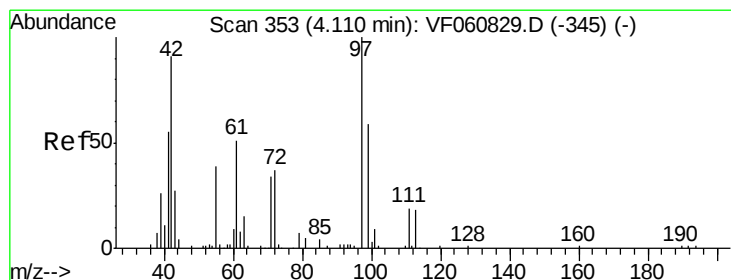
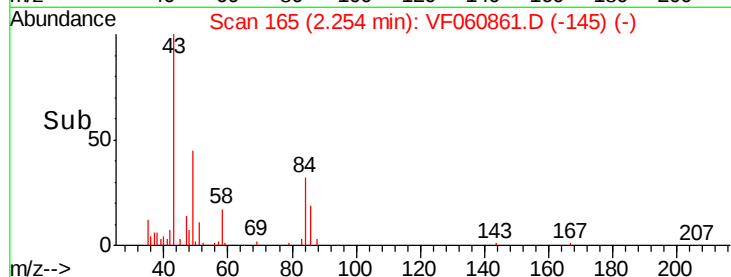
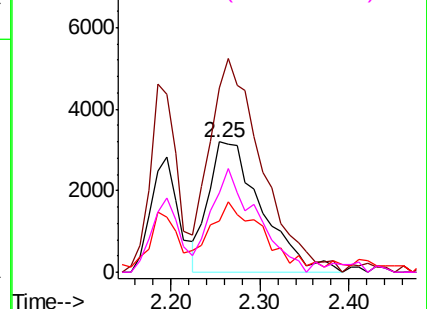
#20
Methvlene Chloride
Concen: 8.768 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-CRE

Tot Ion: 84 Resp: 13292
Ion Ratio Lower Upper
84 100
49 141.7 111.3 166.9
51 39.4 38.0 57.0
86 60.9 49.8 74.8

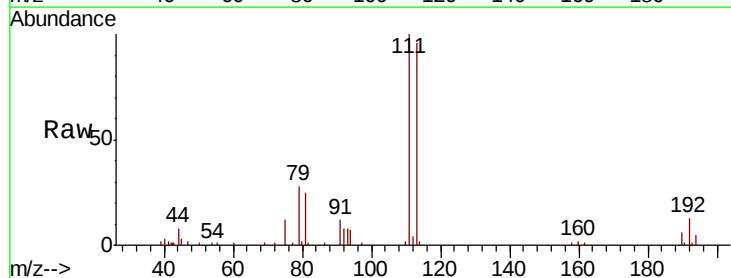


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

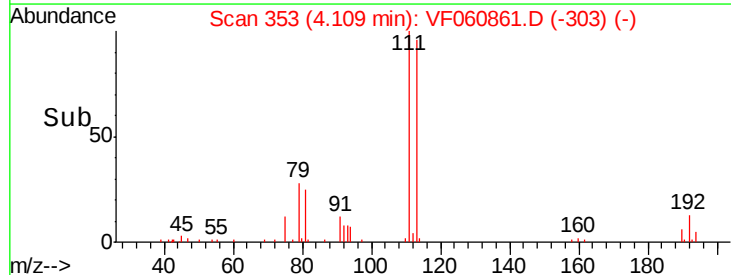
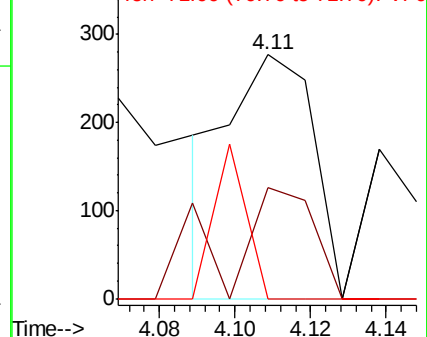


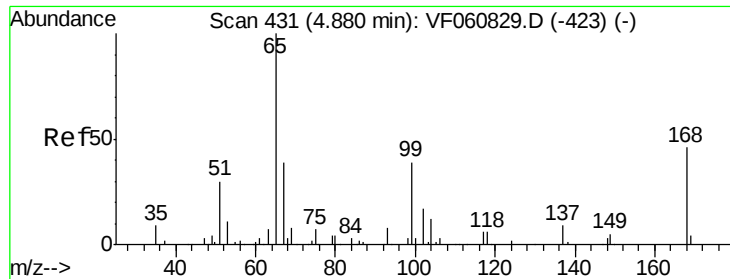
#29
Tetrahydrofuran
Concen: 1.413 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Tgt Ion: 42 Resp: 428
Ion Ratio Lower Upper
42 100
72 47.9 31.9 47.9#
71 24.3 28.7 43.1#



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: 57.252 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

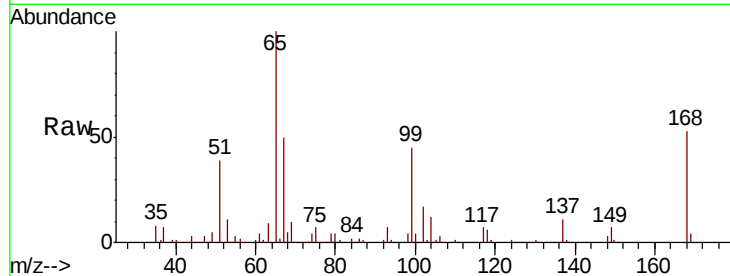
CL-02-112818-CRE

Tot Ion: 65 Resp: 128303

Ion Ratio Lower Upper

65 100

67 50.0 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.87

50000

40000

30000

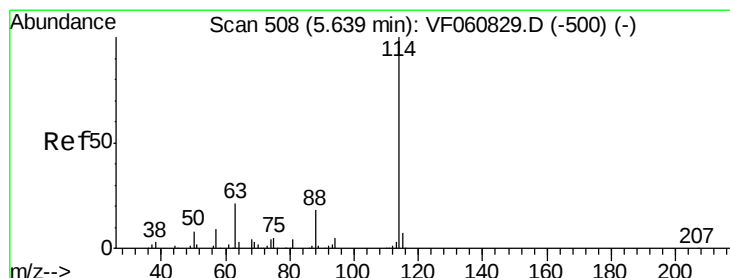
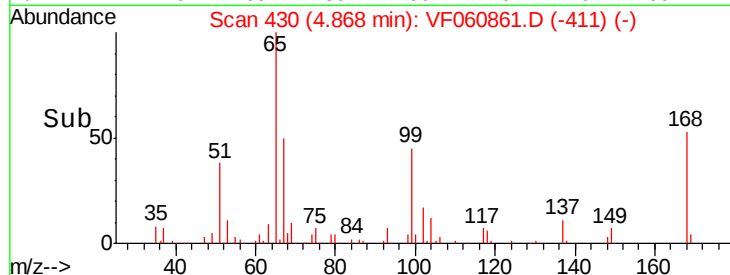
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

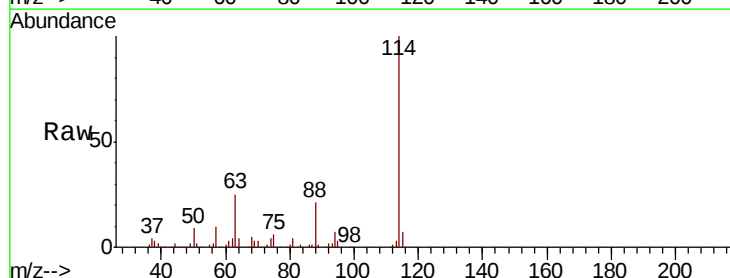
Tgt Ion: 114 Resp: 323975

Ion Ratio Lower Upper

114 100

63 24.6 0.0 41.6

88 20.7 0.0 36.6



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

150000

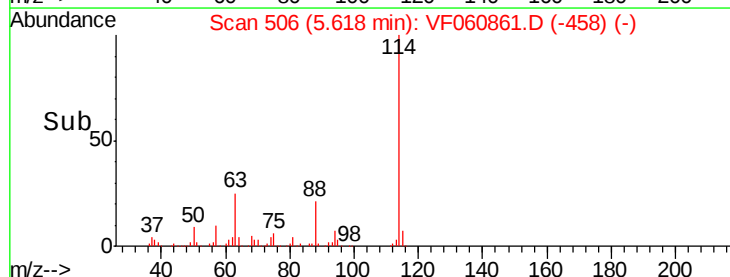
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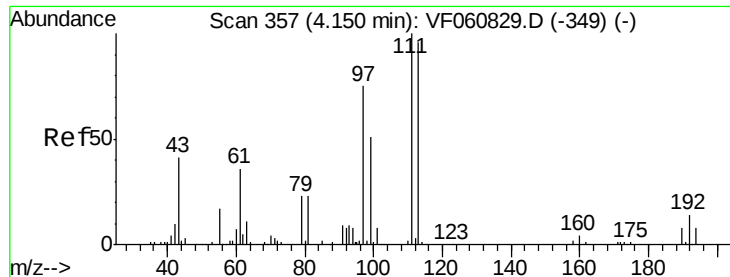
50000

0

Time-->

5.50 5.60 5.70 5.80





#35

Dibromofluoromethane

Concen: 53.883 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF060861.D

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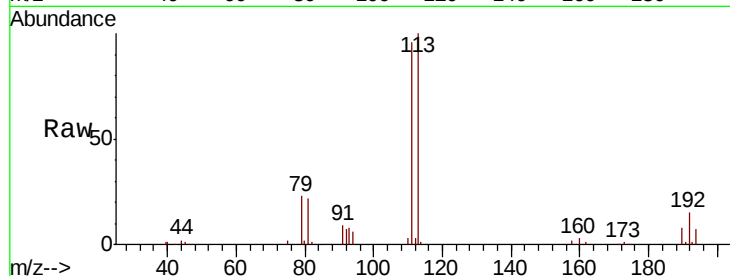
Tot Ion:113 Resp: 138488

Ion Ratio Lower Upper

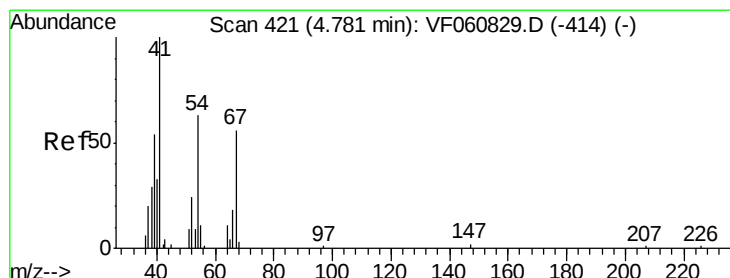
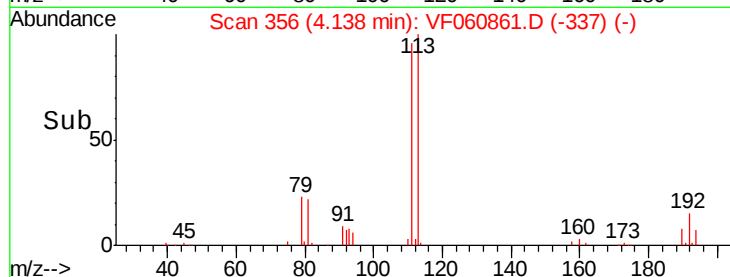
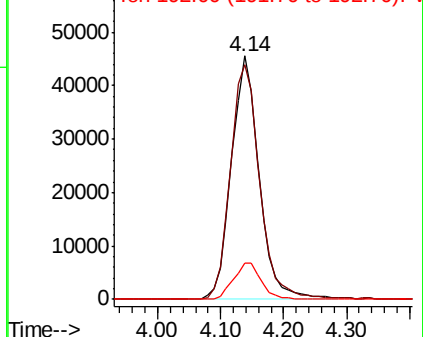
113 100

111 96.3 83.0 124.6

192 14.7 12.3 18.5



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.74 min Scan# 417

Delta R.T. -0.04 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

Tgt Ion: 41 Resp: 185

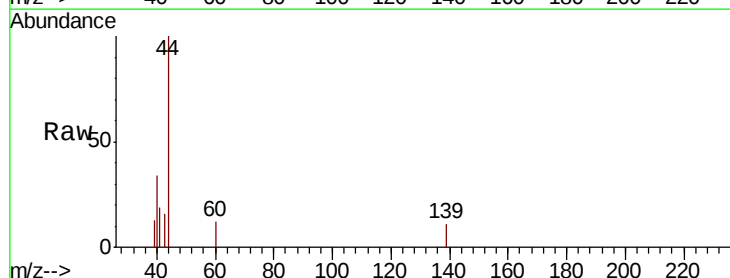
Ion Ratio Lower Upper

41 100

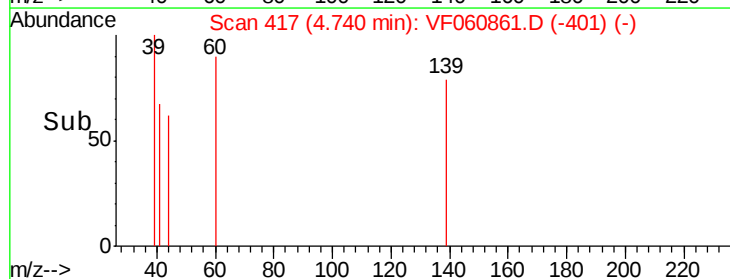
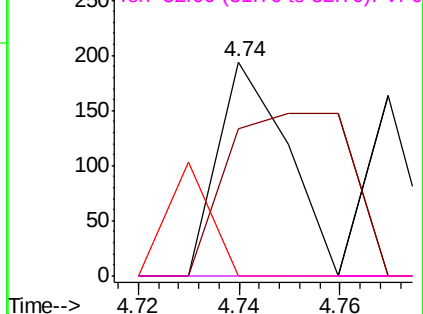
39 69.1 53.0 79.6

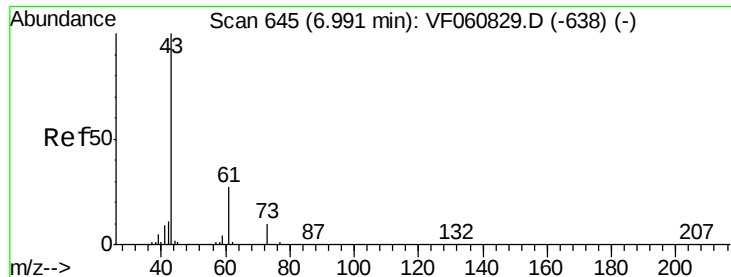
67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



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



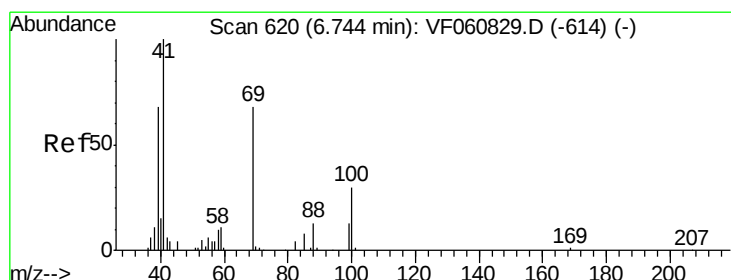
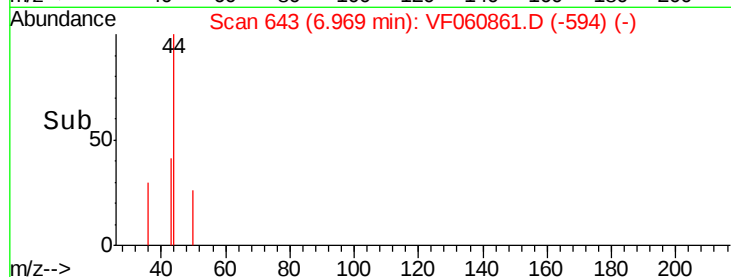
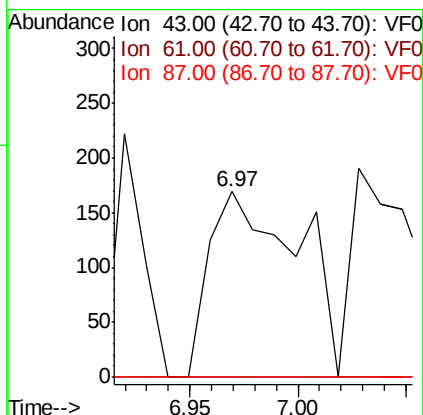
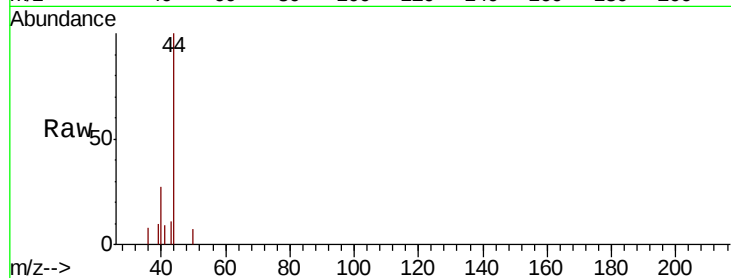


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF060861.D
 Acq: 28 Nov 2018 17:36

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 CL-02-112818-CRE

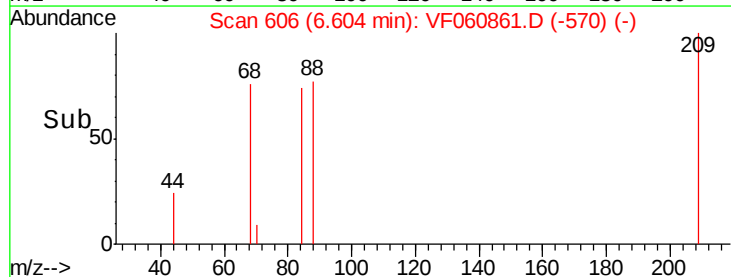
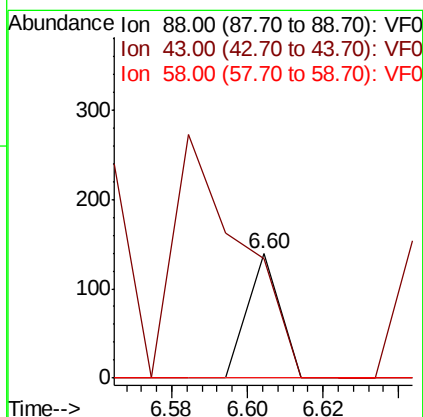
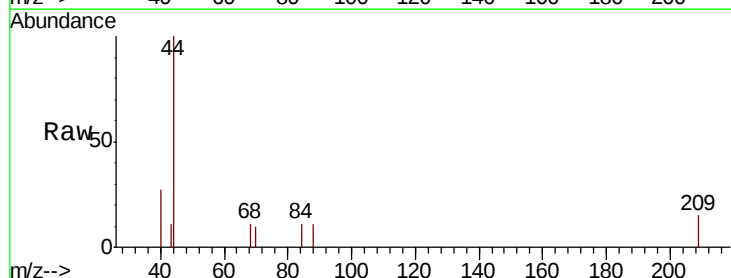
Tot Ion: 43 Resp: 485
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

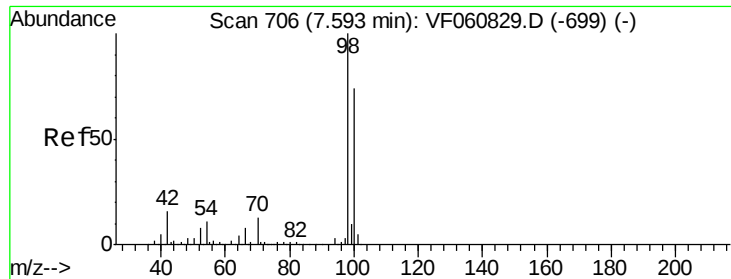


#49

1,4-Dioxane
 Concen: 8.476 ug/l
 RT: 6.60 min Scan# 606
 Delta R.T. -0.14 min
 Lab File: VF060861.D
 Acq: 28 Nov 2018 17:36

Tgt Ion: 88 Resp: 82
 Ion Ratio Lower Upper
 88 100
 43 95.7 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 45.629 ug/l

RT: 7.58 min Scan# 705

Delta R.T. -0.01 min

Lab File: VF060861.D

Acq: 28 Nov 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

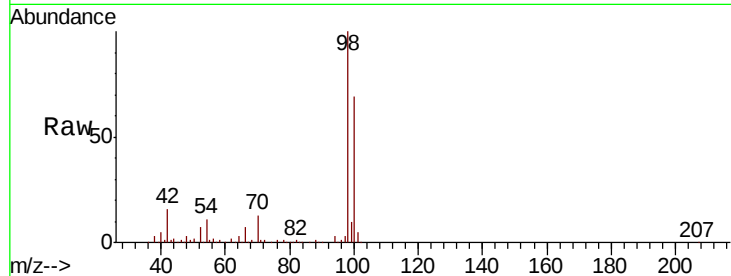
CL-02-112818-CRE

Tot Ion: 98 Resp: 345455

Ion Ratio Lower Upper

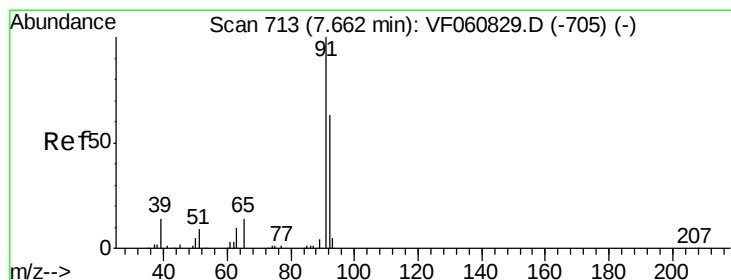
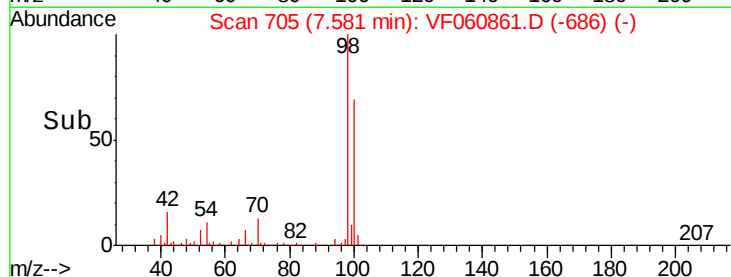
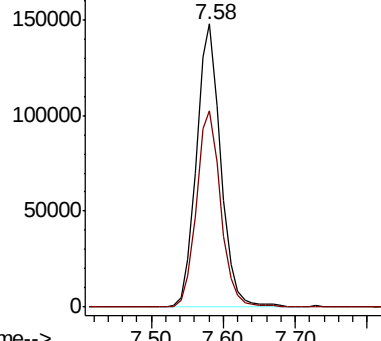
98 100

100 69.1 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#52

Toluene

Concen: 1.987 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF060861.D

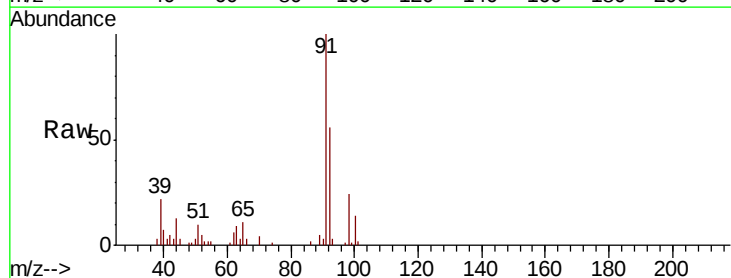
Acq: 28 Nov 2018 17:36

Tgt Ion: 92 Resp: 11081

Ion Ratio Lower Upper

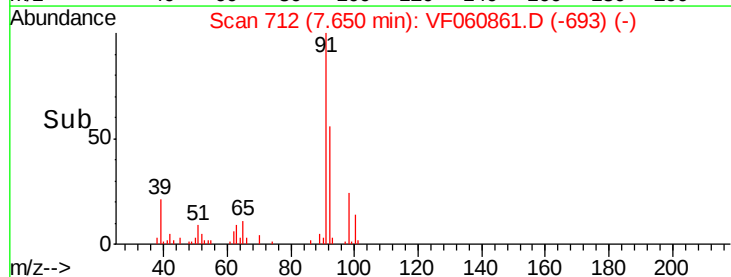
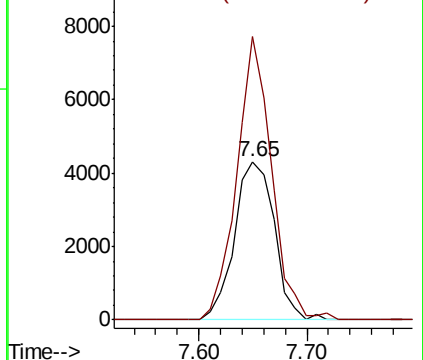
92 100

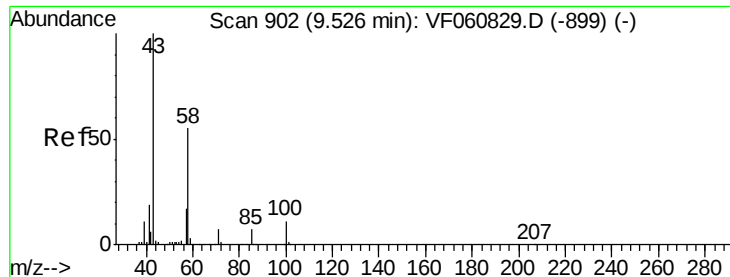
91 179.1 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

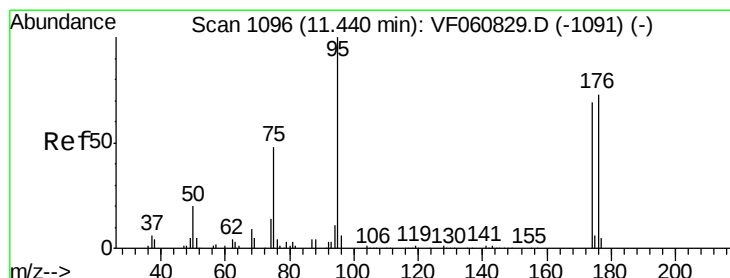
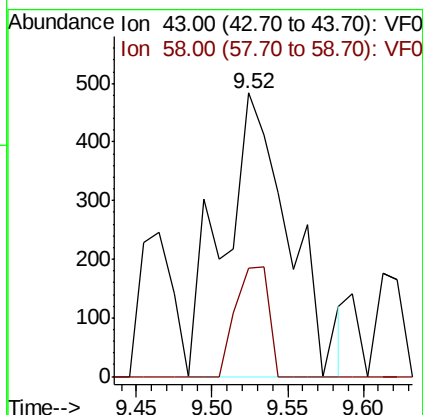
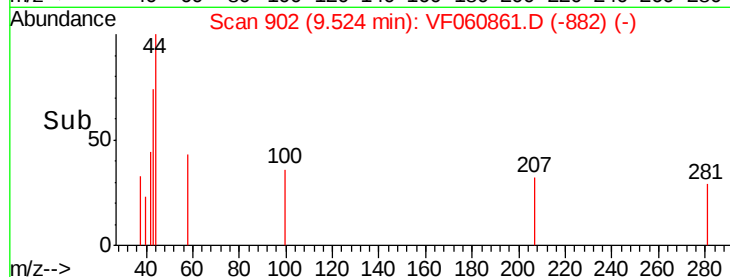
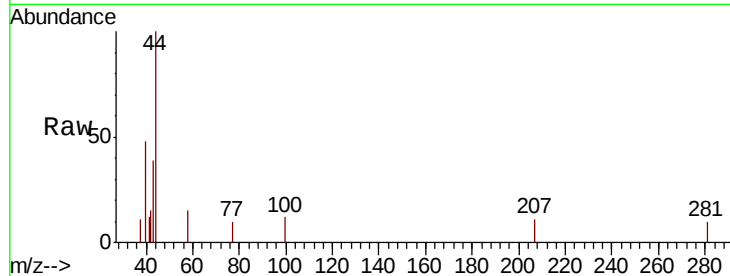




#59
2-Hexanone
Concen: 1.558 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

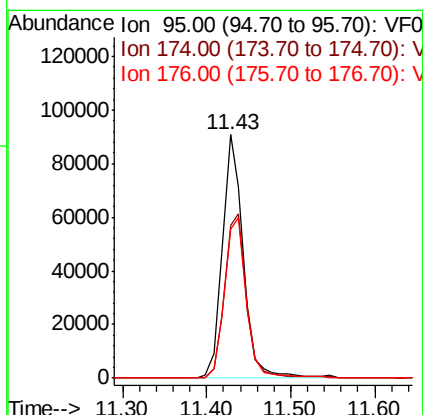
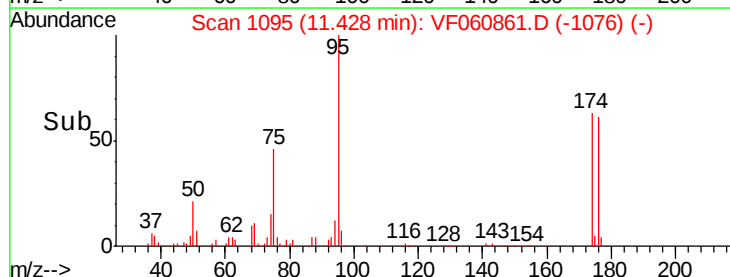
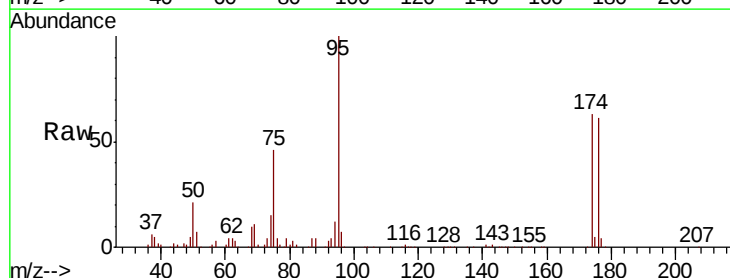
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-CRE

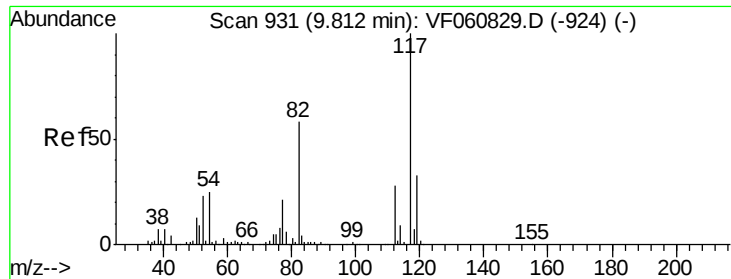
Tot Ion: 43 Resp: 1472
Ion Ratio Lower Upper
43 100
58 38.3 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 45.328 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Tgt Ion: 95 Resp: 155969
Ion Ratio Lower Upper
95 100
174 62.5 0.0 138.2
176 61.4 0.0 146.2

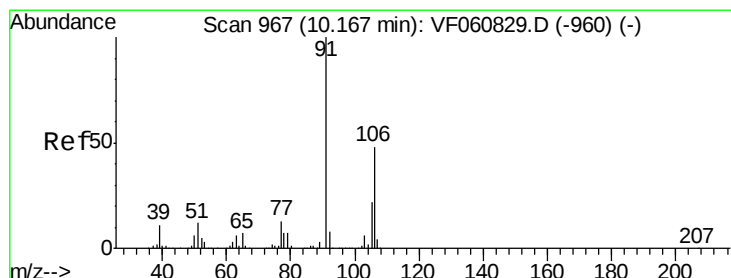
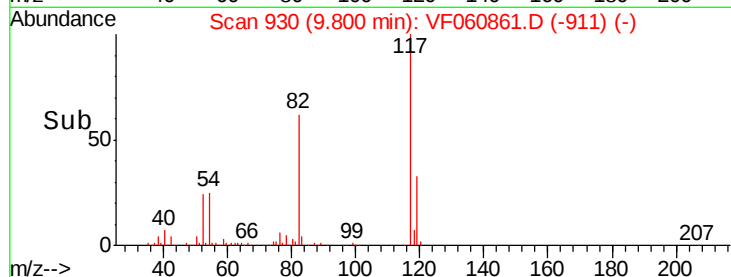
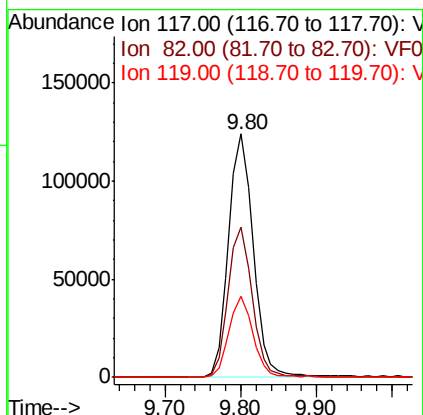
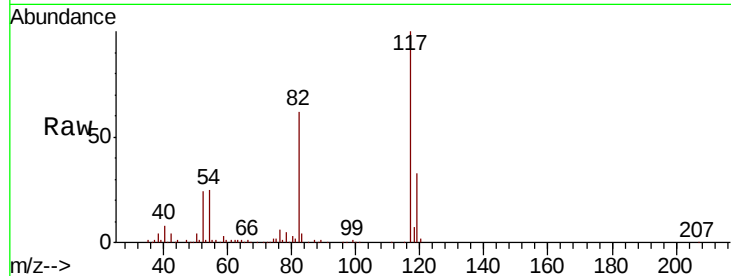




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

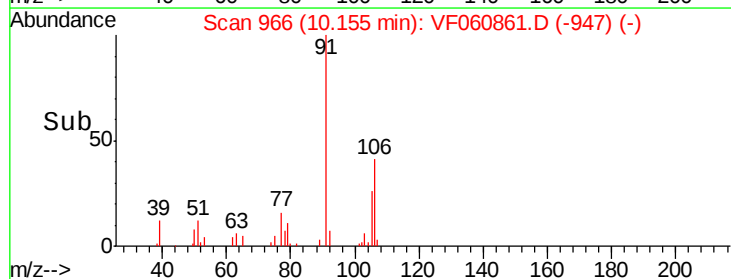
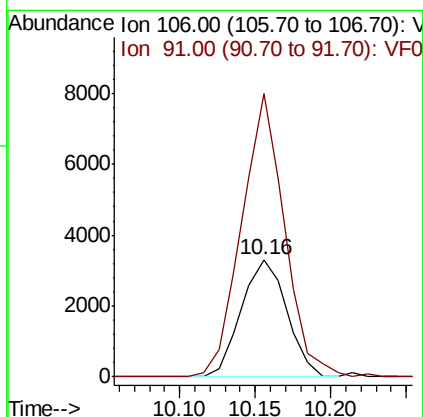
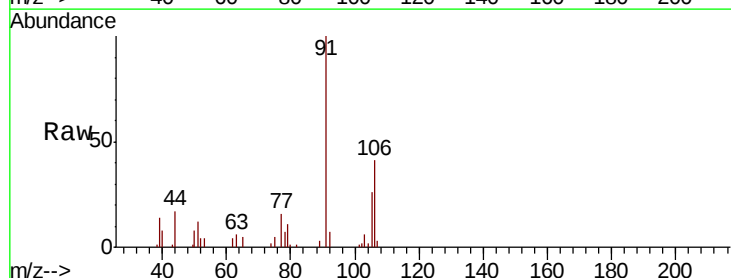
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-CRE

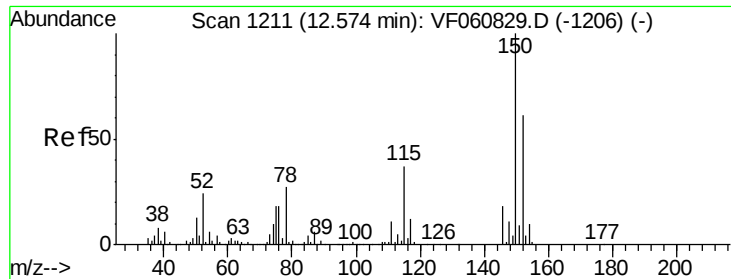
Tot Ion:117 Resp: 281381
Ion Ratio Lower Upper
117 100
82 61.7 46.6 69.8
119 33.4 26.4 39.6



#68
m/p-Xylenes
Concen: 1.894 ug/l
RT: 10.16 min Scan# 966
Delta R.T. -0.01 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Tgt Ion:106 Resp: 6941
Ion Ratio Lower Upper
106 100
91 241.3 166.7 250.1



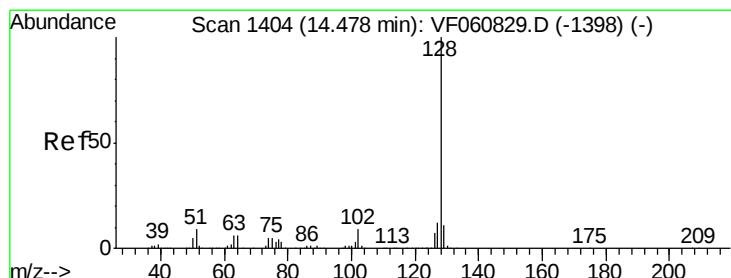
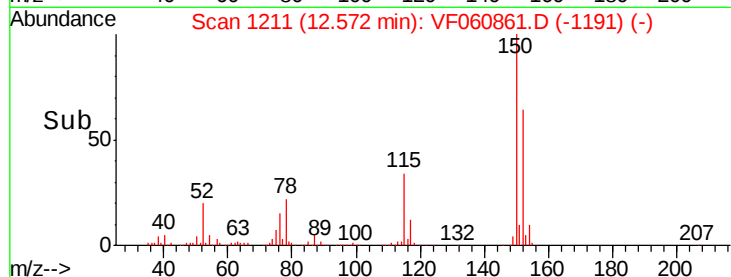
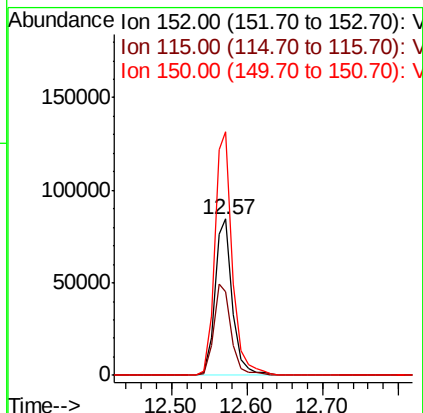
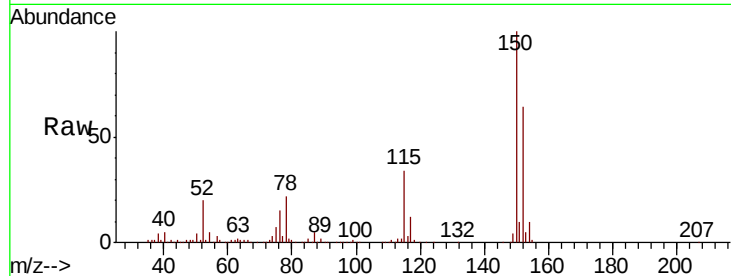


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-CRE

Tot Ion:152 Resp: 137979
Ion Ratio Lower Upper
152 100
115 53.8 30.1 90.5
150 155.9 0.0 327.6



#95

Naphthalene
Concen: Below Cal
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060861.D
Acq: 28 Nov 2018 17:36

Tgt Ion:128 Resp: 8803
Ion Ratio Lower Upper
128 100
127 8.9 9.9 14.9#
129 12.8 9.1 13.7

