

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060873.D
 Acq On : 29 Nov 2018 18:16
 Operator : VA/AP
 Sample : J5770-15RE
 Misc : 6.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-112918-BRE

Quant Time: Nov 30 05:59:20 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

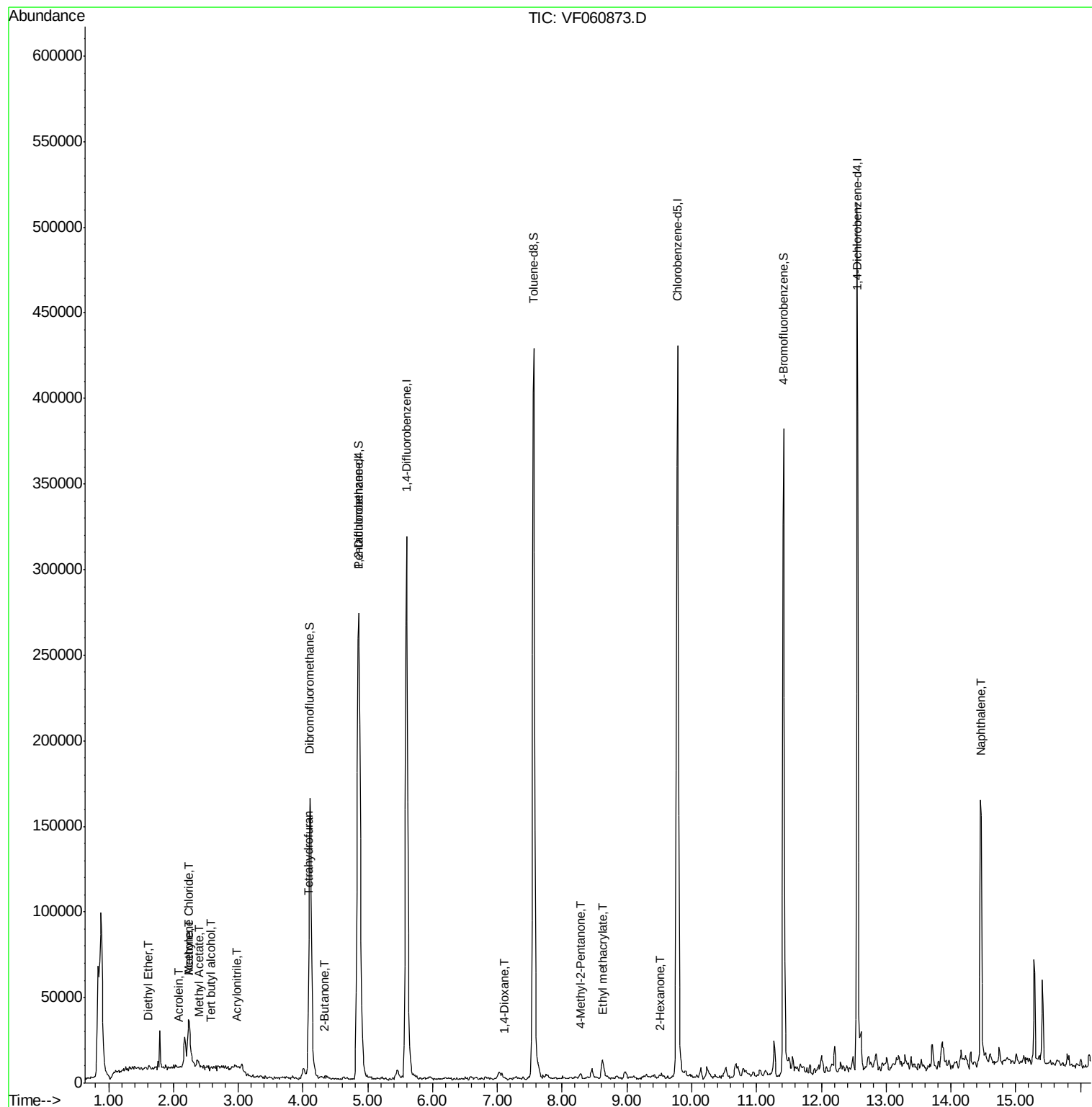
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	196357	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	344052	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	295232	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	125553	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	133067	57.53	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	115.06%	
35) Dibromofluoromethane	4.11	113	150040	54.97	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	109.94%	
50) Toluene-d8	7.56	98	363461	45.21	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	90.42%	
62) 4-Bromofluorobenzene	11.42	95	151959	41.59	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	83.18%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	687	1.250	ug/l	54
11) Tert butyl alcohol	2.57	59	102	1.076	ug/l #	62
13) Acrolein	2.09	56	439	4.886	ug/l	92
15) Acrylonitrile	2.98	53	925	4.351	ug/l #	72
16) Acetone	2.23	43	18585	43.570	ug/l	98
18) Methyl Acetate	2.39	43	2475	1.869	ug/l #	61
20) Methylene Chloride	2.24	84	12477	7.973	ug/l	91
25) 2-Butanone	4.34	43	3793	5.141	ug/l #	91
29) Tetrahydrofuran	4.08	42	1153	3.687	ug/l #	47
41) Methacrylonitrile	4.74	41	522	Below Cal	#	46
43) Isopropyl Acetate	6.97	43	527	Below Cal	#	49
49) 1,4-Dioxane	7.12	88	66	6.424	ug/l #	22
51) 4-Methyl-2-Pentanone	8.29	43	2170	1.517	ug/l #	38
56) Ethyl methacrylate	8.63	69	6328	3.301	ug/l #	65
59) 2-Hexanone	9.50	43	1952	1.946	ug/l	89
95) Naphthalene	14.47	128	119087	20.335	ug/l	98

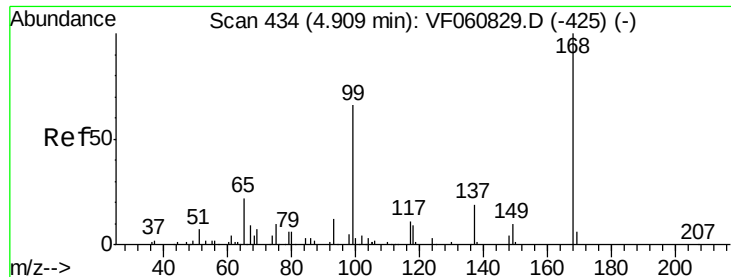
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

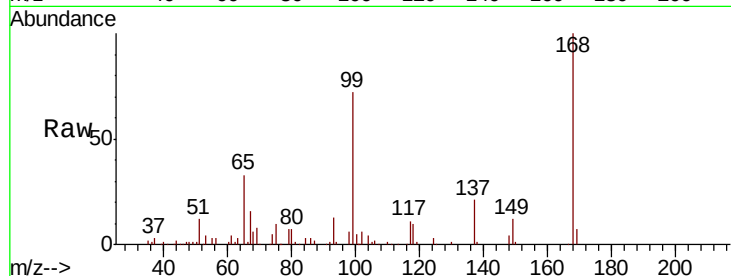
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-BRE

Tot Ion:168 Resp: 196357

Ion Ratio Lower Upper

168 100

99 71.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

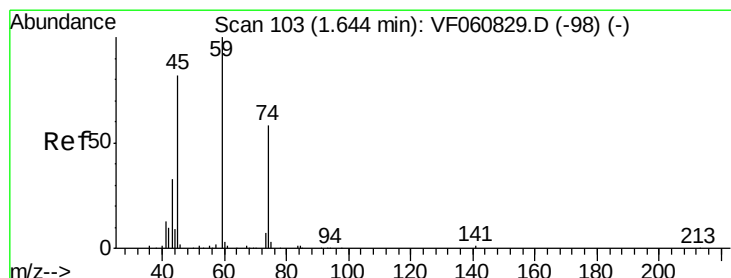
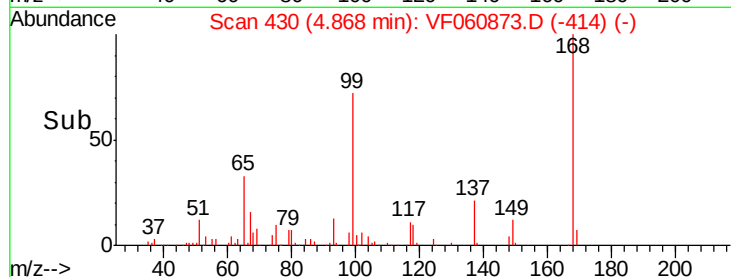
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.250 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060873.D

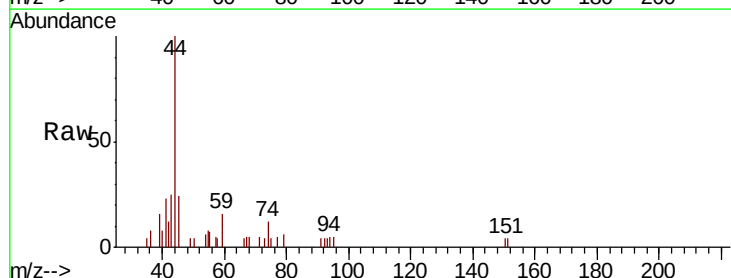
Acq: 29 Nov 2018 18:16

Tgt Ion: 74 Resp: 687

Ion Ratio Lower Upper

74 100

45 198.2 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

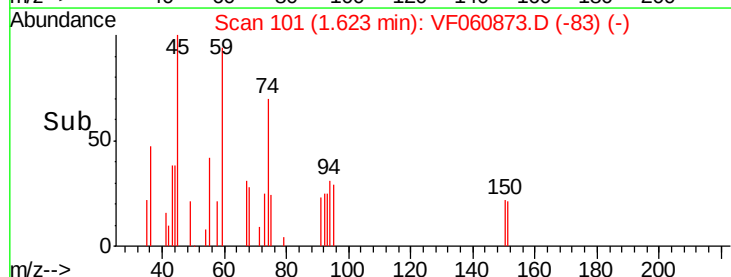
400

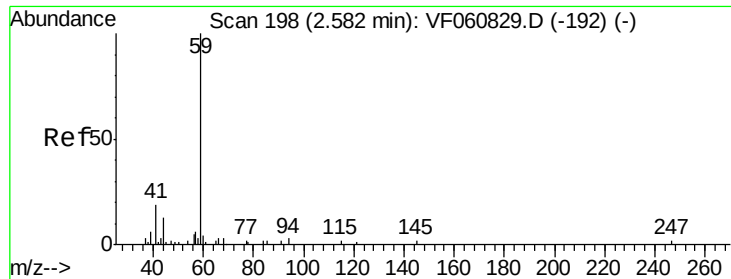
200

0

Time-->

1.55 1.60 1.65

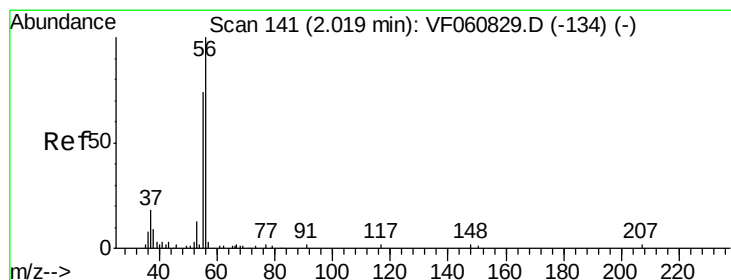
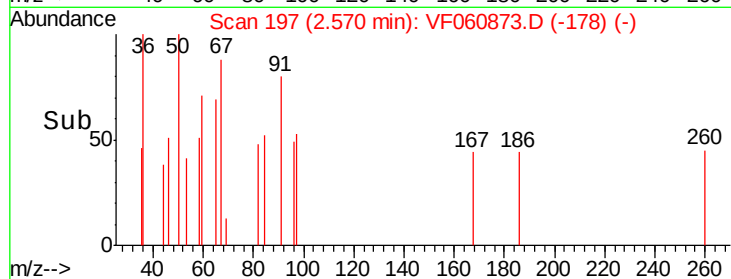
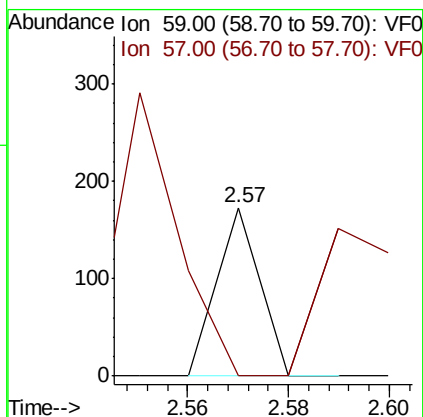
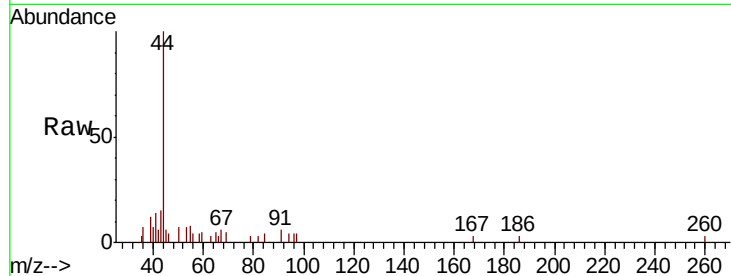




#11
Tert butyl alcohol
Concen: 1.076 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

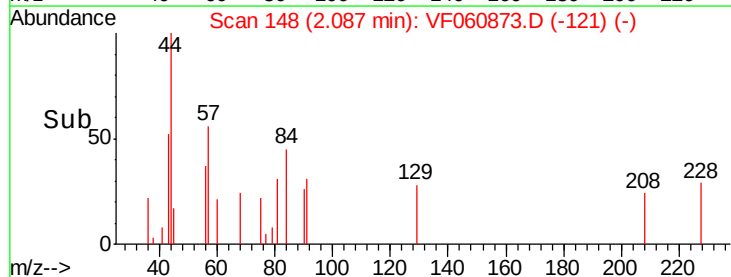
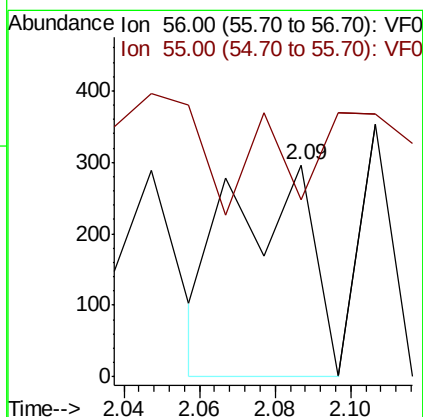
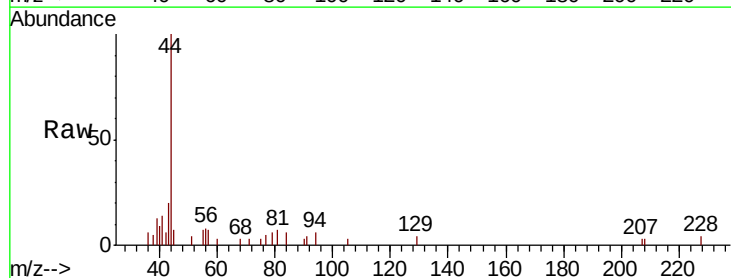
Instrument :
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ClientSampleId :
OR-03-112918-BRE

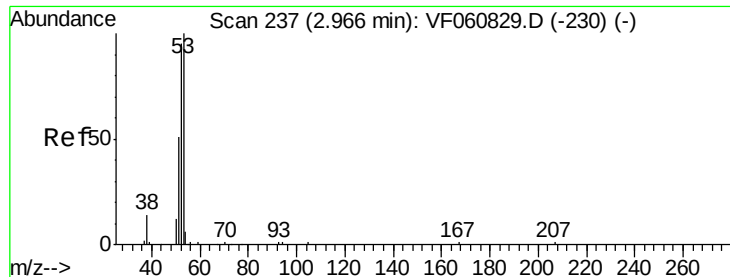
Tot Ion: 59 Resp: 102
Ion Ratio Lower Upper
59 100
57 0.0 12.7 19.1#



#13
Acrolein
Concen: 4.886 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.07 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

Tgt Ion: 56 Resp: 439
Ion Ratio Lower Upper
56 100
55 83.8 61.2 91.8





#15

Acrylonitrile

Concen: 4.351 ug/l

RT: 2.98 min Scan# 239

Delta R.T. 0.02 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-BRE

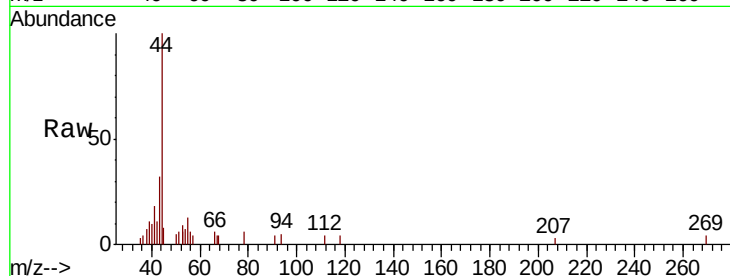
Tot Ion: 53 Resp: 925

Ion Ratio Lower Upper

53 100

52 66.5 76.5 114.7#

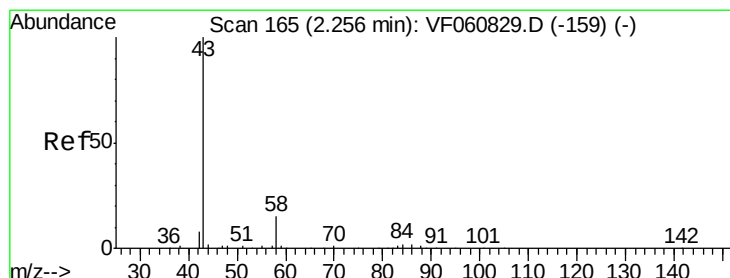
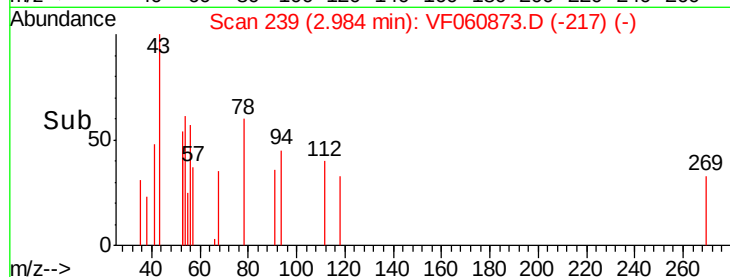
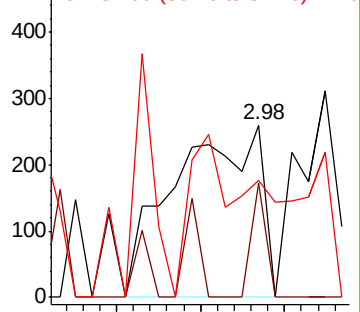
51 68.1 40.7 61.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 43.570 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060873.D

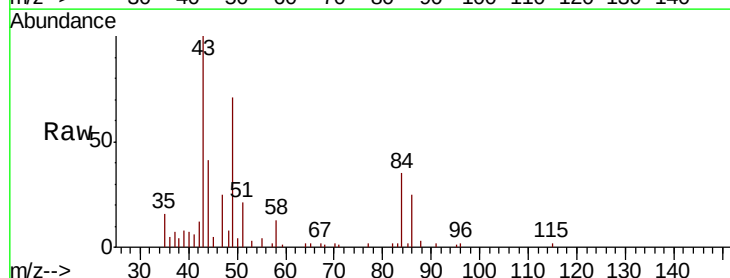
Acq: 29 Nov 2018 18:16

Tgt Ion: 43 Resp: 18585

Ion Ratio Lower Upper

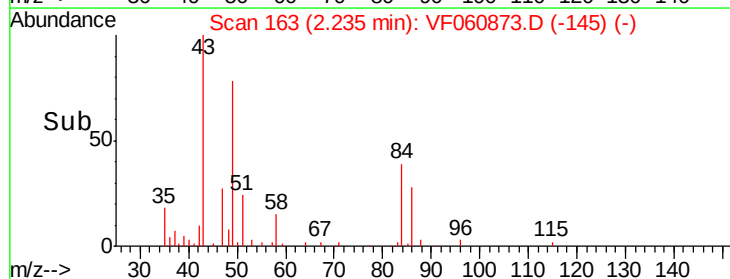
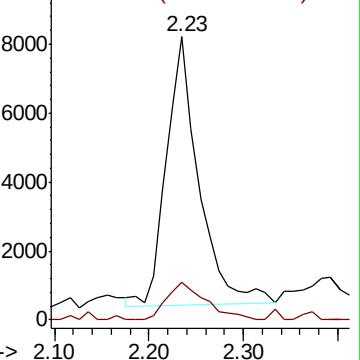
43 100

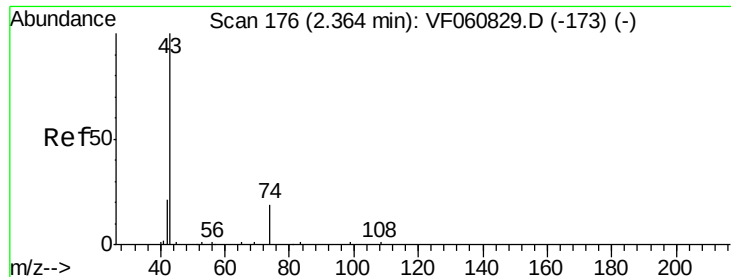
58 13.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

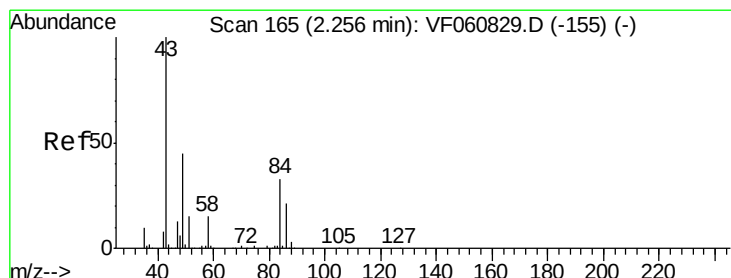
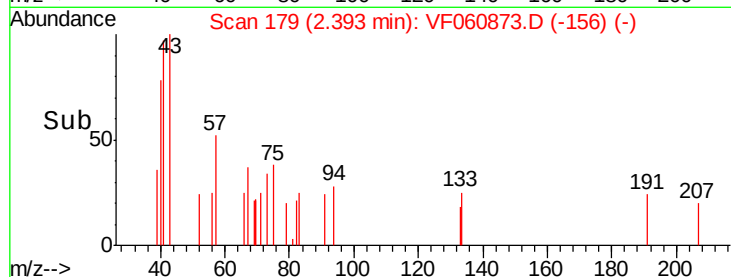
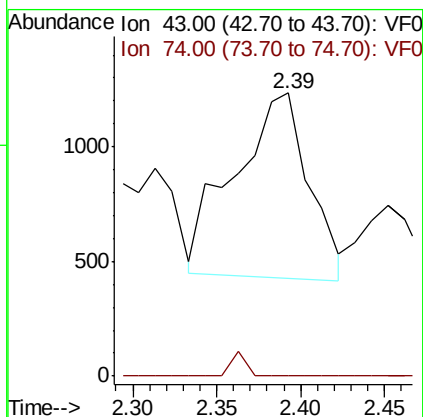
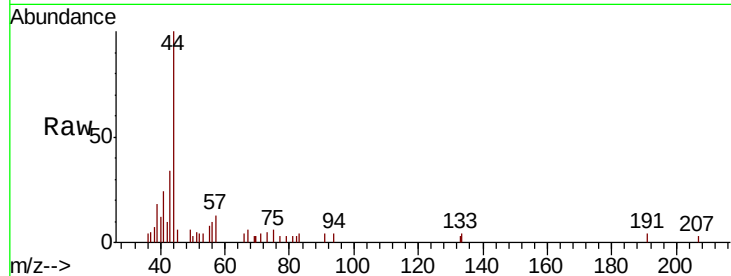




#18
Methyl Acetate
Concen: 1.869 ug/l
RT: 2.39 min Scan# 179
Delta R.T. 0.03 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

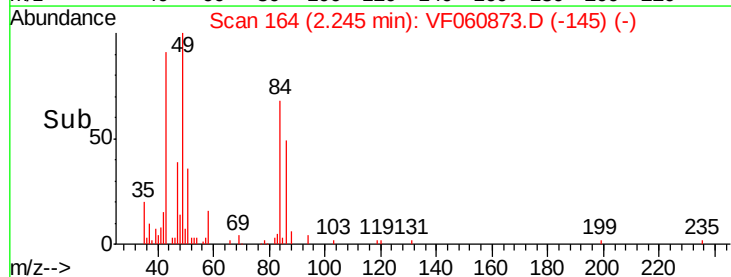
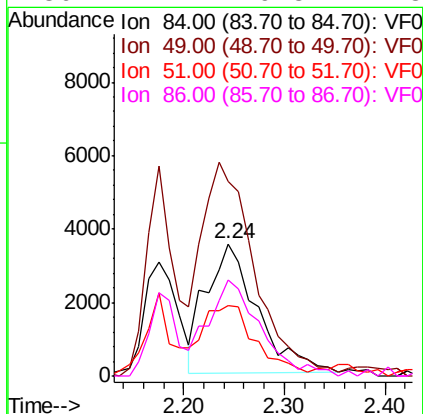
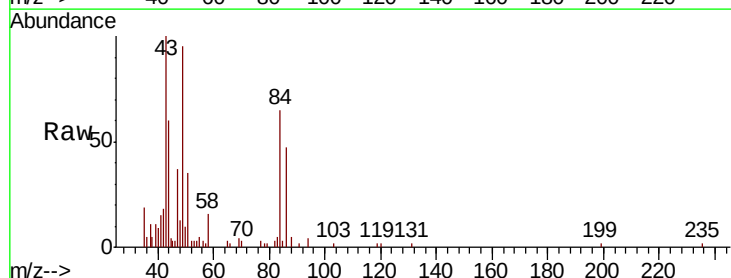
Instrument :
MSVOA_F
ClientSampleId :
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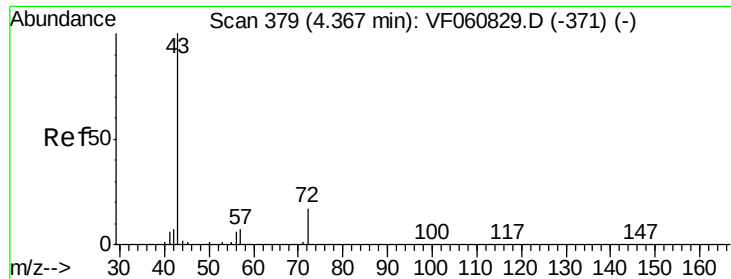
Tot Ion: 43 Resp: 2475
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 7.973 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

Tgt Ion: 84 Resp: 12477
Ion Ratio Lower Upper
84 100
49 147.2 111.3 166.9
51 53.4 38.0 57.0
86 72.4 49.8 74.8





#25

2-Butanone

Concen: 5.141 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

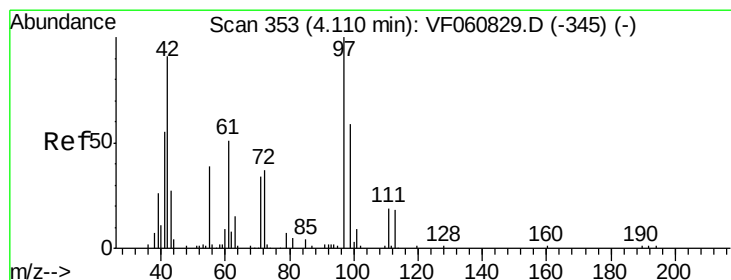
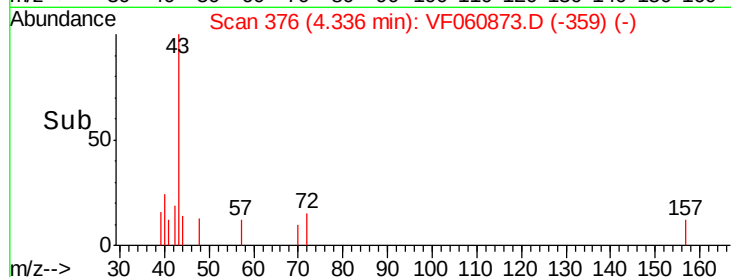
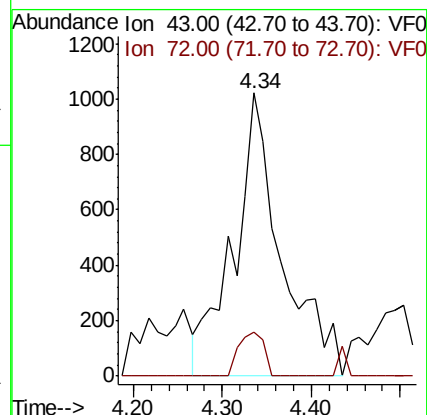
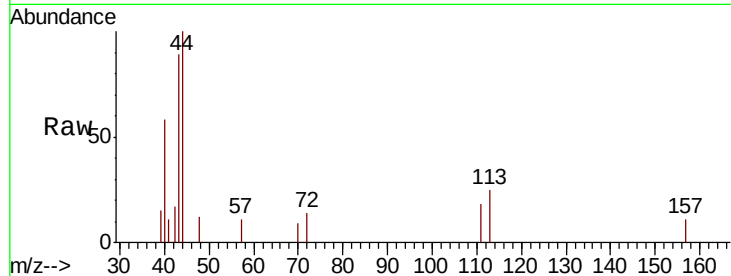
OR-03-112918-BRE

Tot Ion: 43 Resp: 3793

Ion Ratio Lower Upper

43 100

72 15.4 15.4 23.2#



#29

Tetrahydrofuran

Concen: 3.687 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

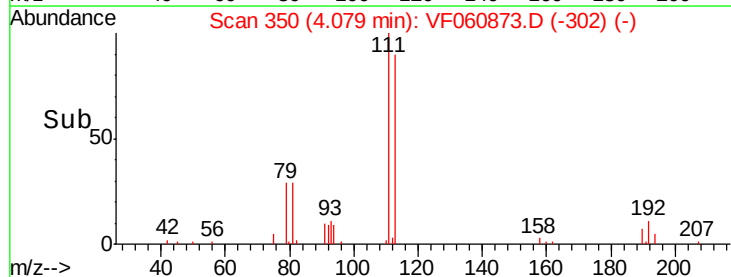
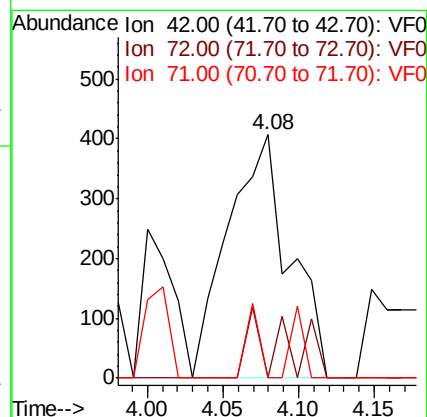
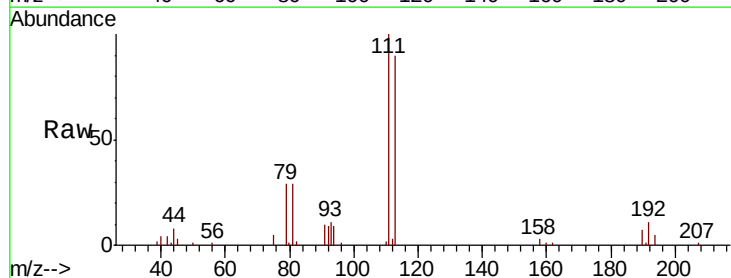
Tgt Ion: 42 Resp: 1153

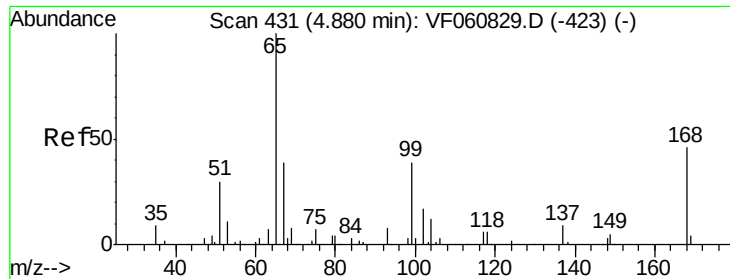
Ion Ratio Lower Upper

42 100

72 6.1 31.9 47.9#

71 6.5 28.7 43.1#

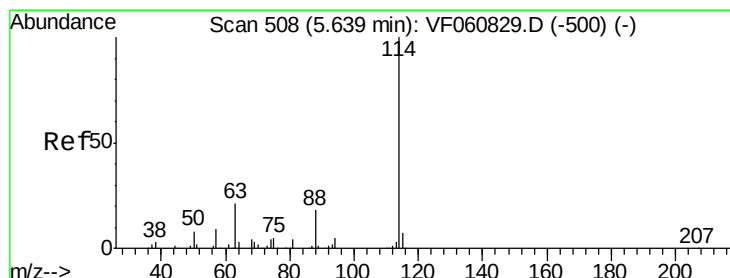
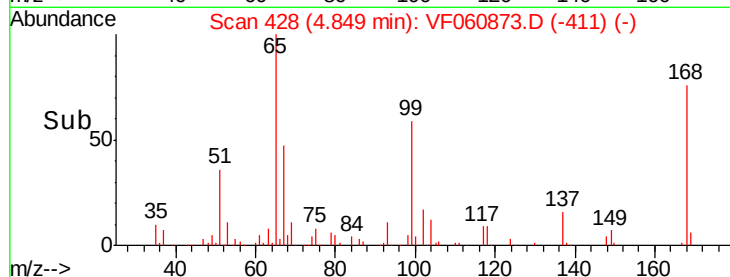
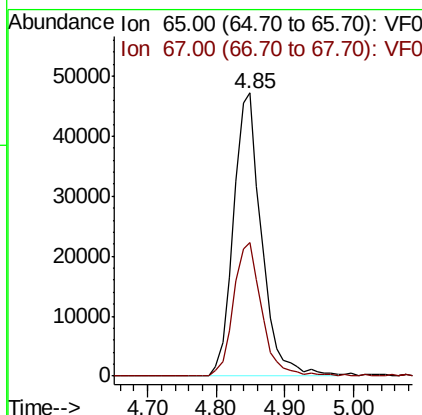
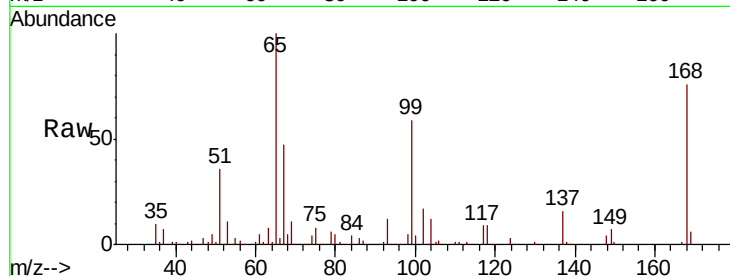




#33
 1,2-Dichloroethane-d4
 Concen: 57.526 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

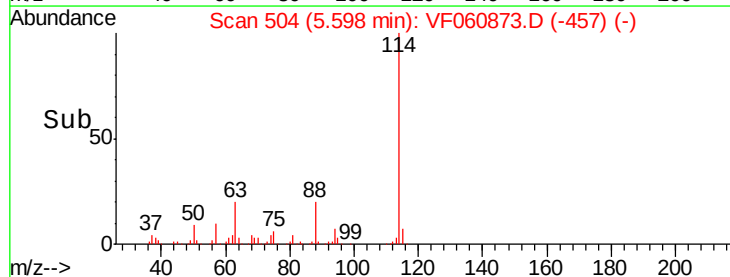
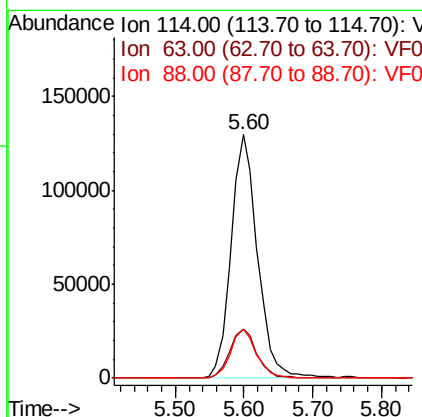
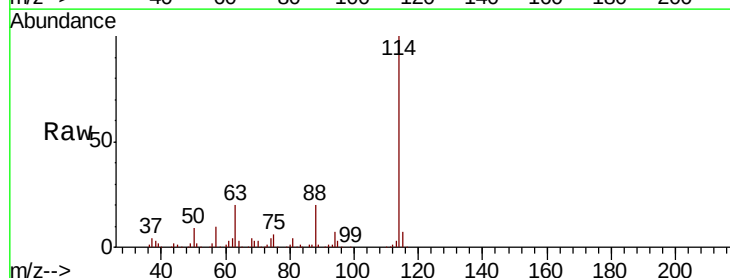
Instrument :
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 OR-03-112918-BRE

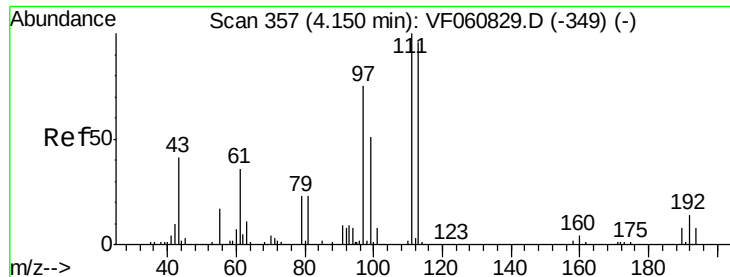
Tot Ion: 65 Resp: 133067
 Ion Ratio Lower Upper
 65 100
 67 47.2 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

Tgt Ion: 114 Resp: 344052
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.6
 88 20.2 0.0 36.6





#35

Dibromofluoromethane

Concen: 54.971 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-BRE

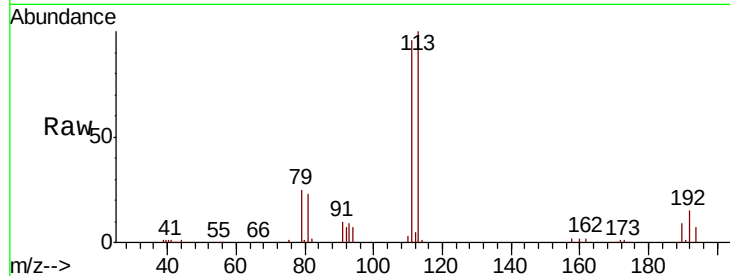
Tot Ion:113 Resp: 150040

Ion Ratio Lower Upper

113 100

111 96.4 83.0 124.6

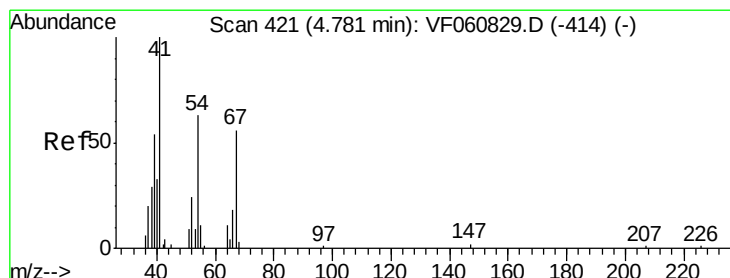
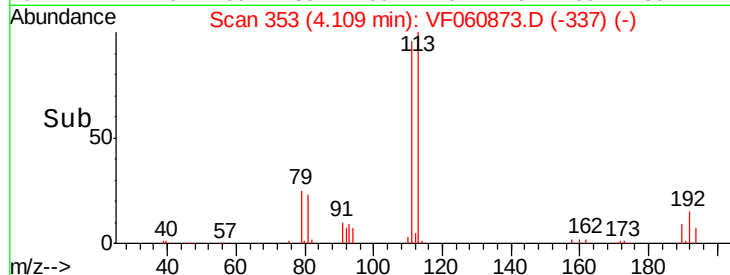
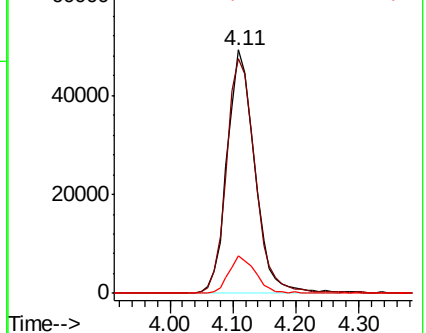
192 15.5 12.3 18.5



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: VF060873.D

Acq: 29 Nov 2018 18:16

Tgt Ion: 41 Resp: 522

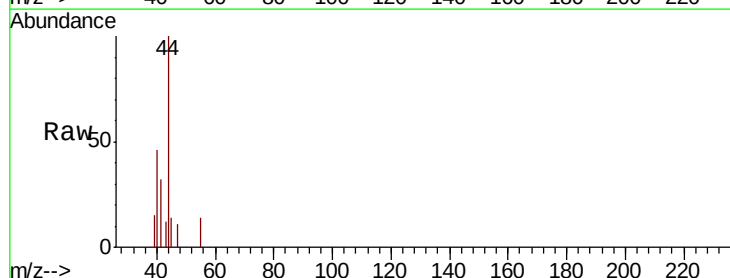
Ion Ratio Lower Upper

41 100

39 46.2 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

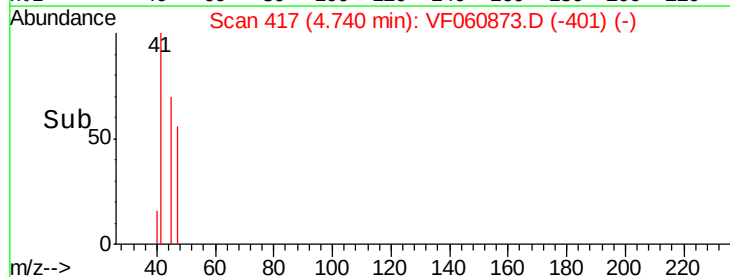
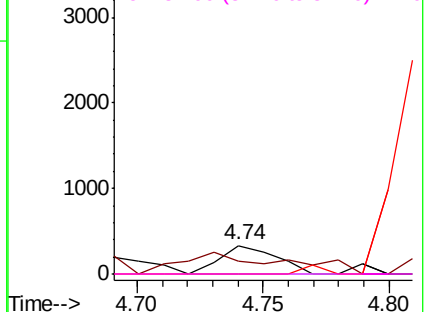


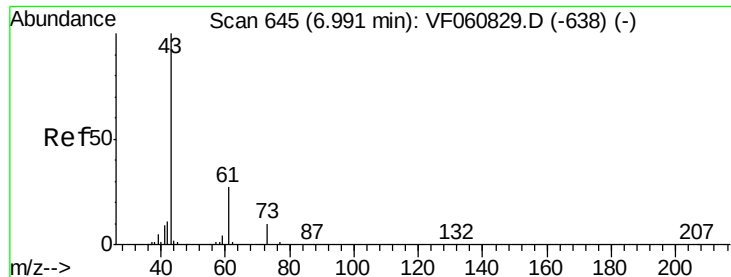
Abundance Ion 41.00 (40.70 to 41.70): VF0

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



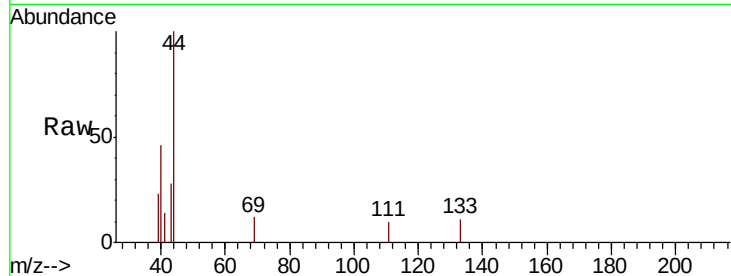


#43

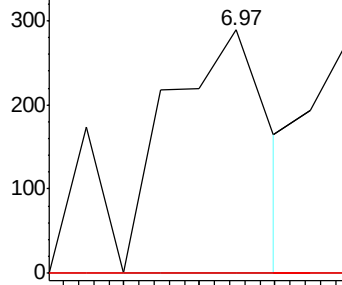
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-112918-BRE

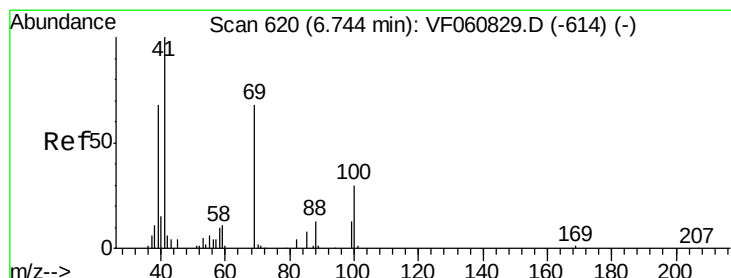
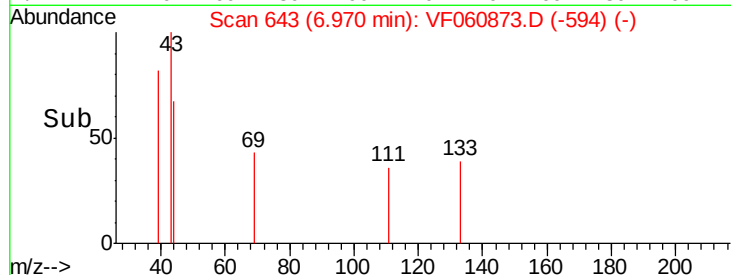
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#



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



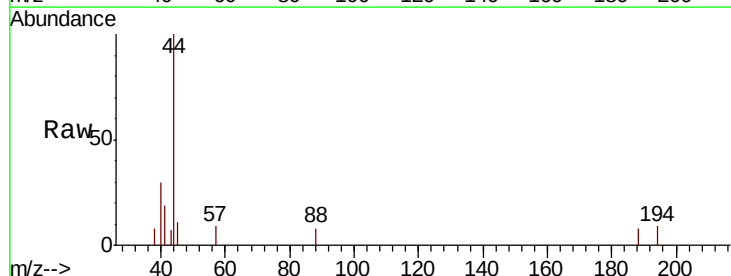
Time-->



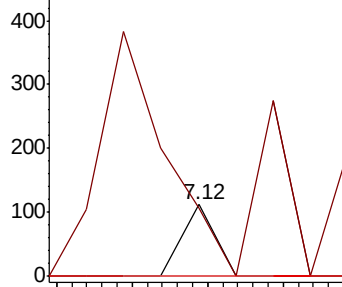
#49

1,4-Dioxane
 Concen: 6.424 ug/l
 RT: 7.12 min Scan# 658
 Delta R.T. 0.37 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

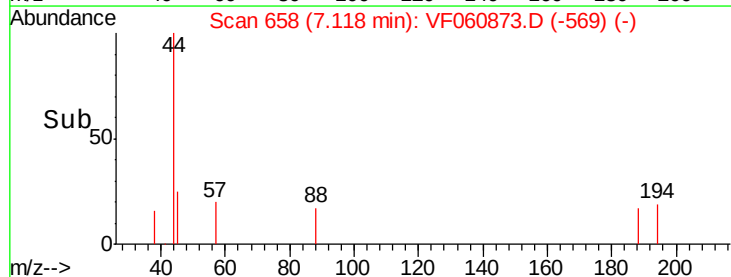
Tgt Ion	Ratio	Lower	Upper
88	100		
43	95.5	42.0	63.0#
58	0.0	61.8	92.8#

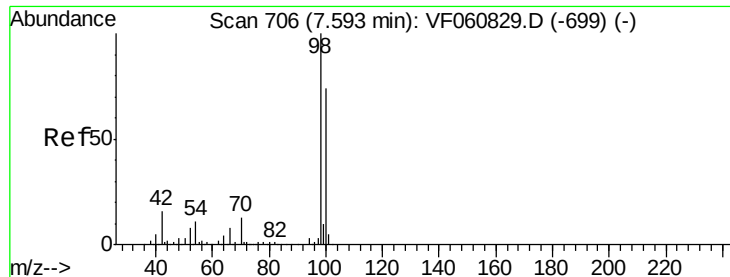


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0



Time-->





#50

Toluene-d8

Concen: 45.206 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

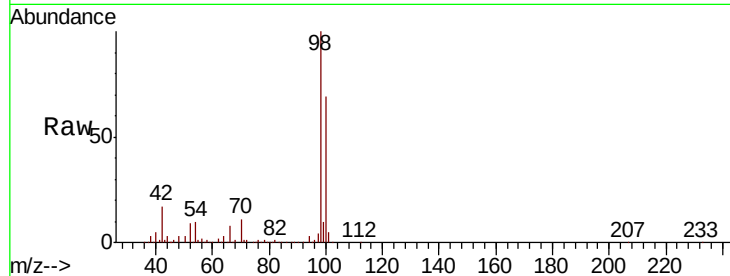
OR-03-112918-BRE

Tot Ion: 98 Resp: 363461

Ion Ratio Lower Upper

98 100

100 69.4 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

150000

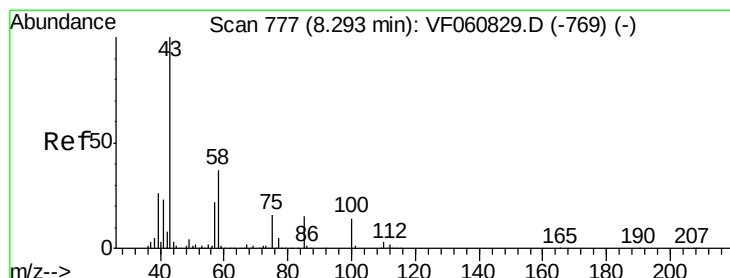
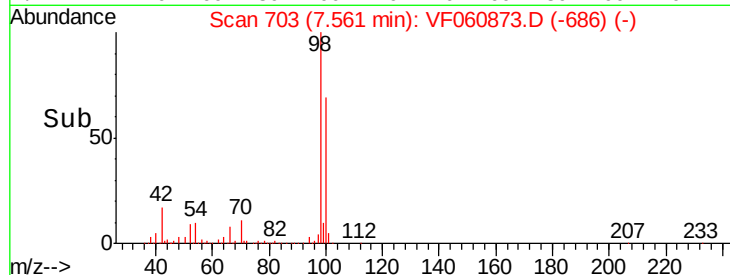
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.517 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060873.D

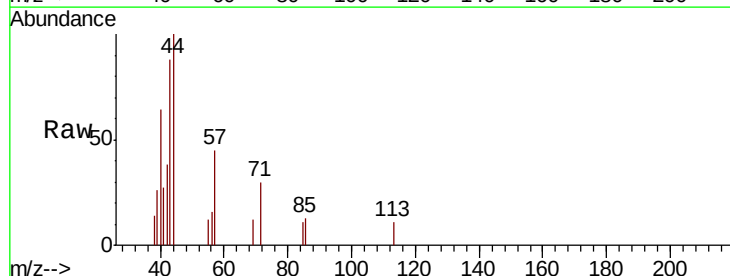
Acq: 29 Nov 2018 18:16

Tgt Ion: 43 Resp: 2170

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1000

800

600

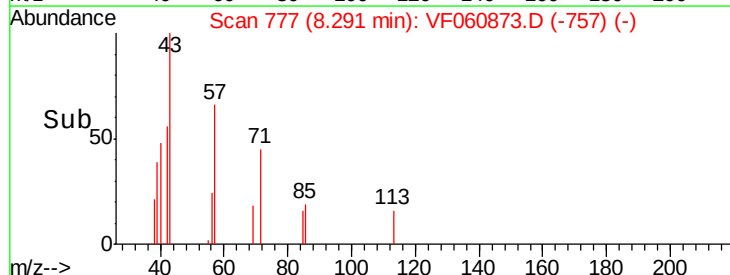
400

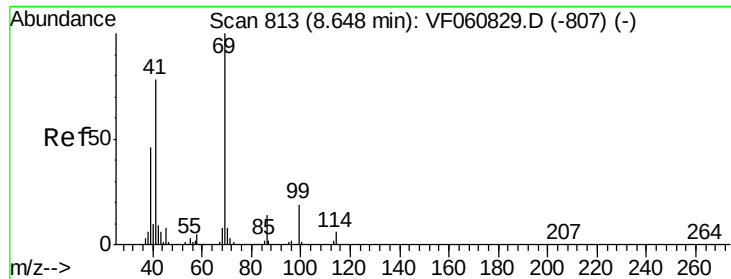
200

0

8.20 8.25 8.30 8.35

Time-->





#56

Ethyl methacrylate

Concen: 3.301 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF060873.D

Acq: 29 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-BRE

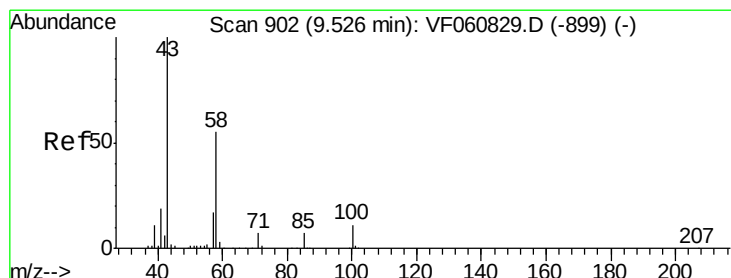
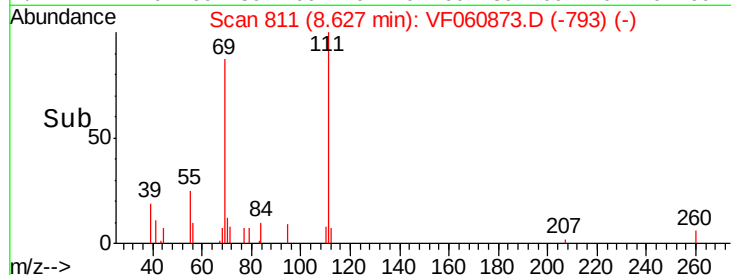
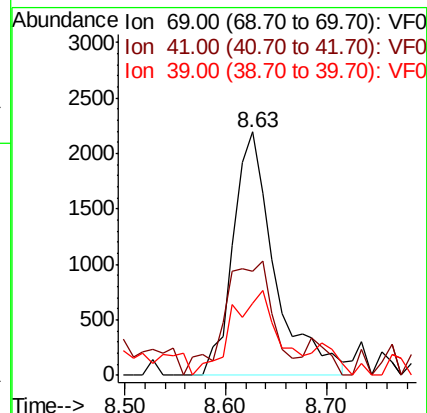
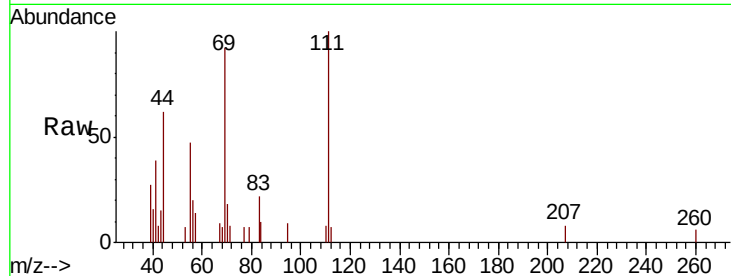
Tot Ion: 69 Resp: 6328

Ion Ratio Lower Upper

69 100

41 42.9 62.6 94.0#

39 29.8 37.8 56.6#



#59

2-Hexanone

Concen: 1.946 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF060873.D

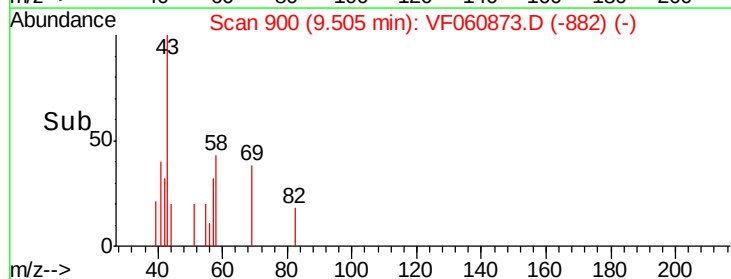
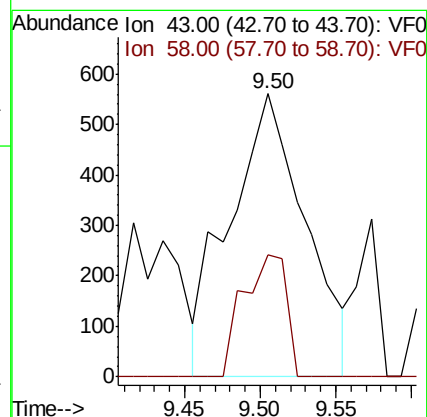
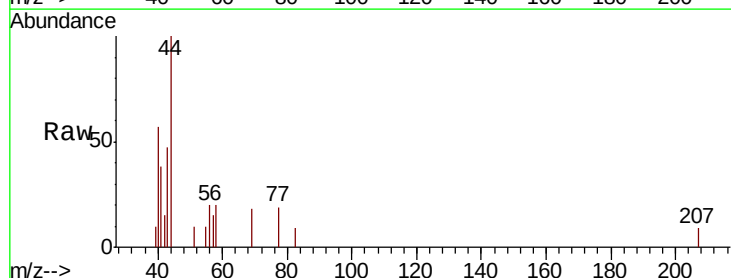
Acq: 29 Nov 2018 18:16

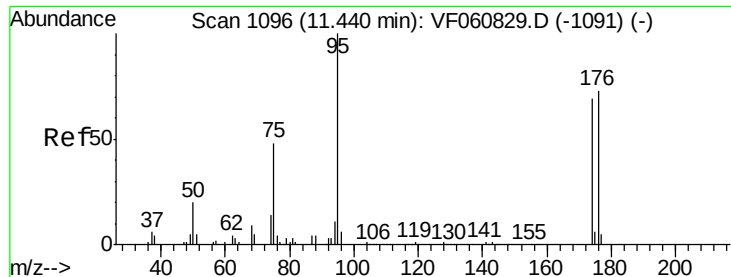
Tgt Ion: 43 Resp: 1952

Ion Ratio Lower Upper

43 100

58 43.1 25.6 76.6

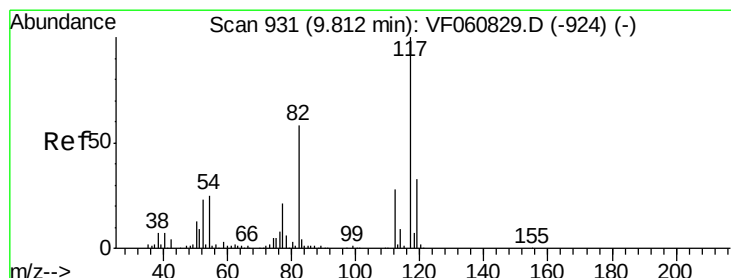
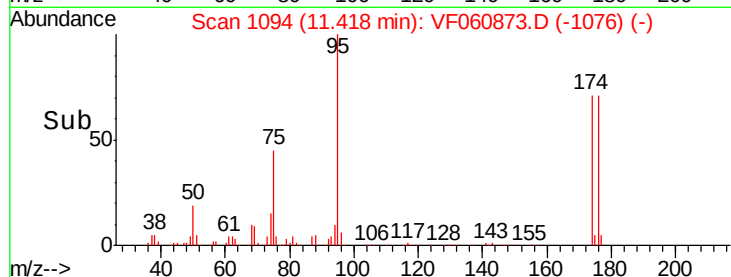
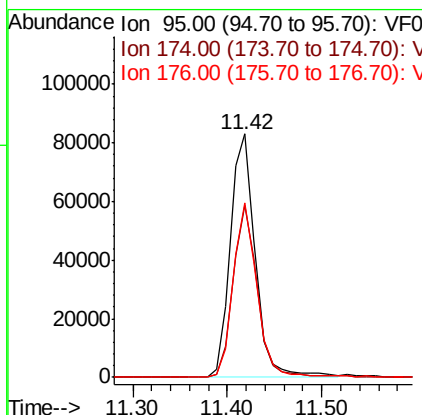
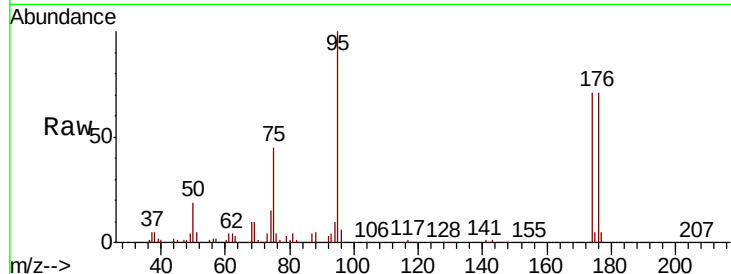




#62
4-Bromofluorobenzene
Concen: 41.586 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

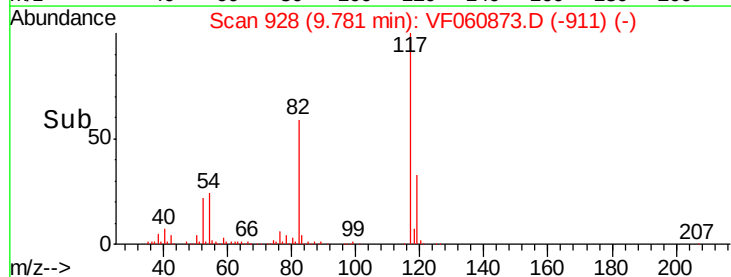
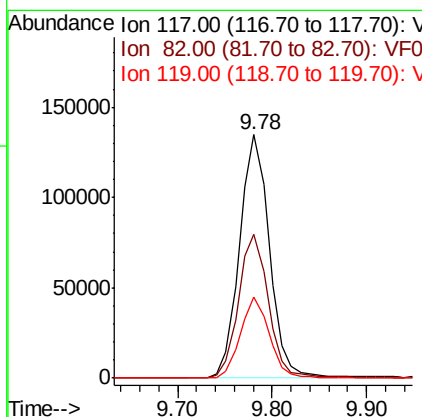
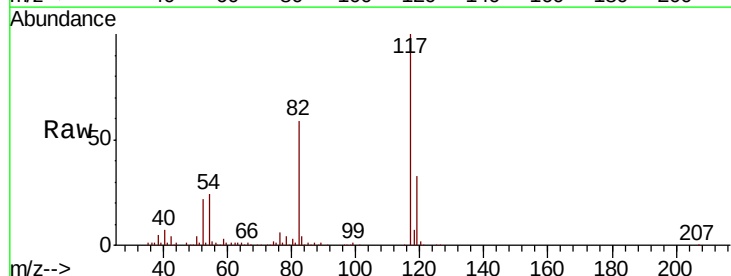
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-BRE

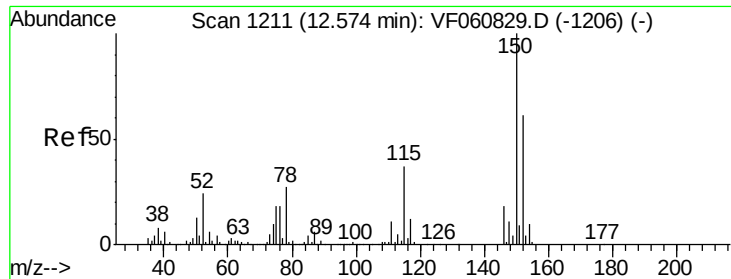
Tot Ion: 95 Resp: 151959
Ion Ratio Lower Upper
95 100
174 70.7 0.0 138.2
176 71.4 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060873.D
Acq: 29 Nov 2018 18:16

Tgt Ion: 117 Resp: 295232
Ion Ratio Lower Upper
117 100
82 58.8 46.6 69.8
119 33.1 26.4 39.6

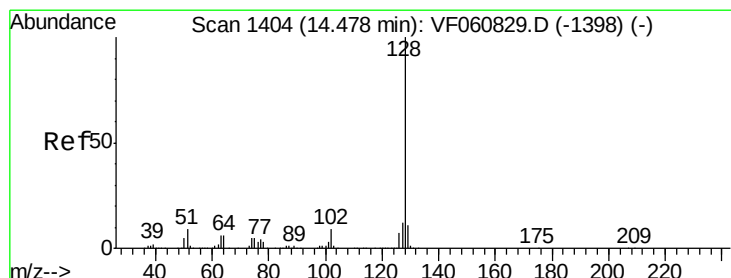
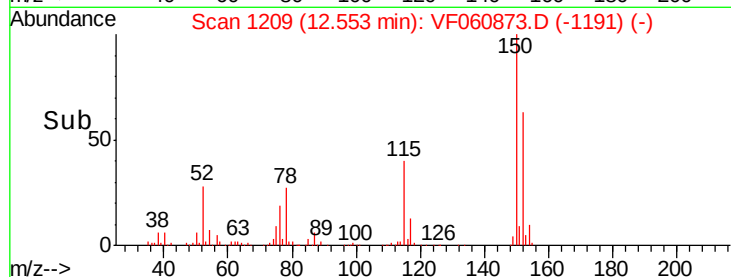
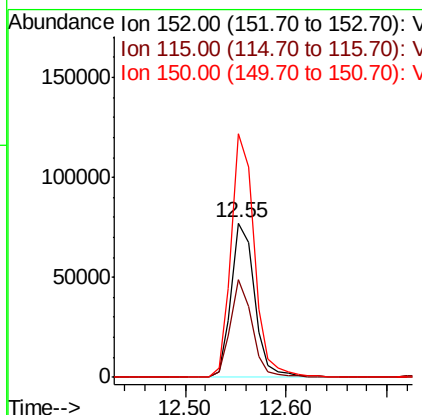
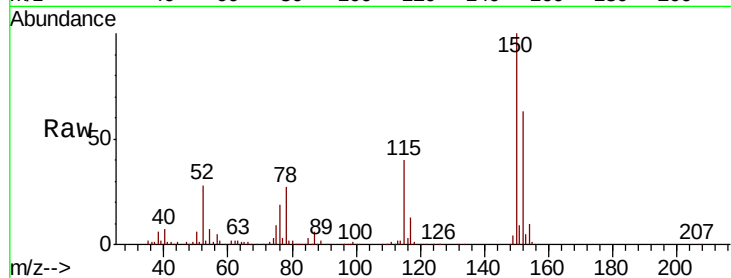




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-112918-BRE

Tot Ion:152 Resp: 125553
 Ion Ratio Lower Upper
 152 100
 115 62.9 30.1 90.5
 150 157.8 0.0 327.6



#95
 Naphthalene
 Concen: 20.335 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. -0.01 min
 Lab File: VF060873.D
 Acq: 29 Nov 2018 18:16

Tgt Ion:128 Resp: 119087
 Ion Ratio Lower Upper
 128 100
 127 12.7 9.9 14.9
 129 10.2 9.1 13.7

