

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060871.D
 Acq On : 29 Nov 2018 17:18
 Operator : VA/AP
 Sample : J5770-15
 Misc : 6.63g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Nov 30 05:58:53 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	4.88	168	203804	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	332211	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	296515	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	138879	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	124386	51.81	ug/l	-0.03
Spiked Amount			Recovery	=	103.62%	
35) Dibromofluoromethane	4.11	113	135367	51.36	ug/l	-0.04
Spiked Amount			Recovery	=	102.72%	
50) Toluene-d8	7.56	98	324448	41.79	ug/l	-0.03
Spiked Amount			Recovery	=	83.58%	
62) 4-Bromofluorobenzene	11.42	95	153766	43.58	ug/l	-0.02
Spiked Amount			Recovery	=	87.16%	

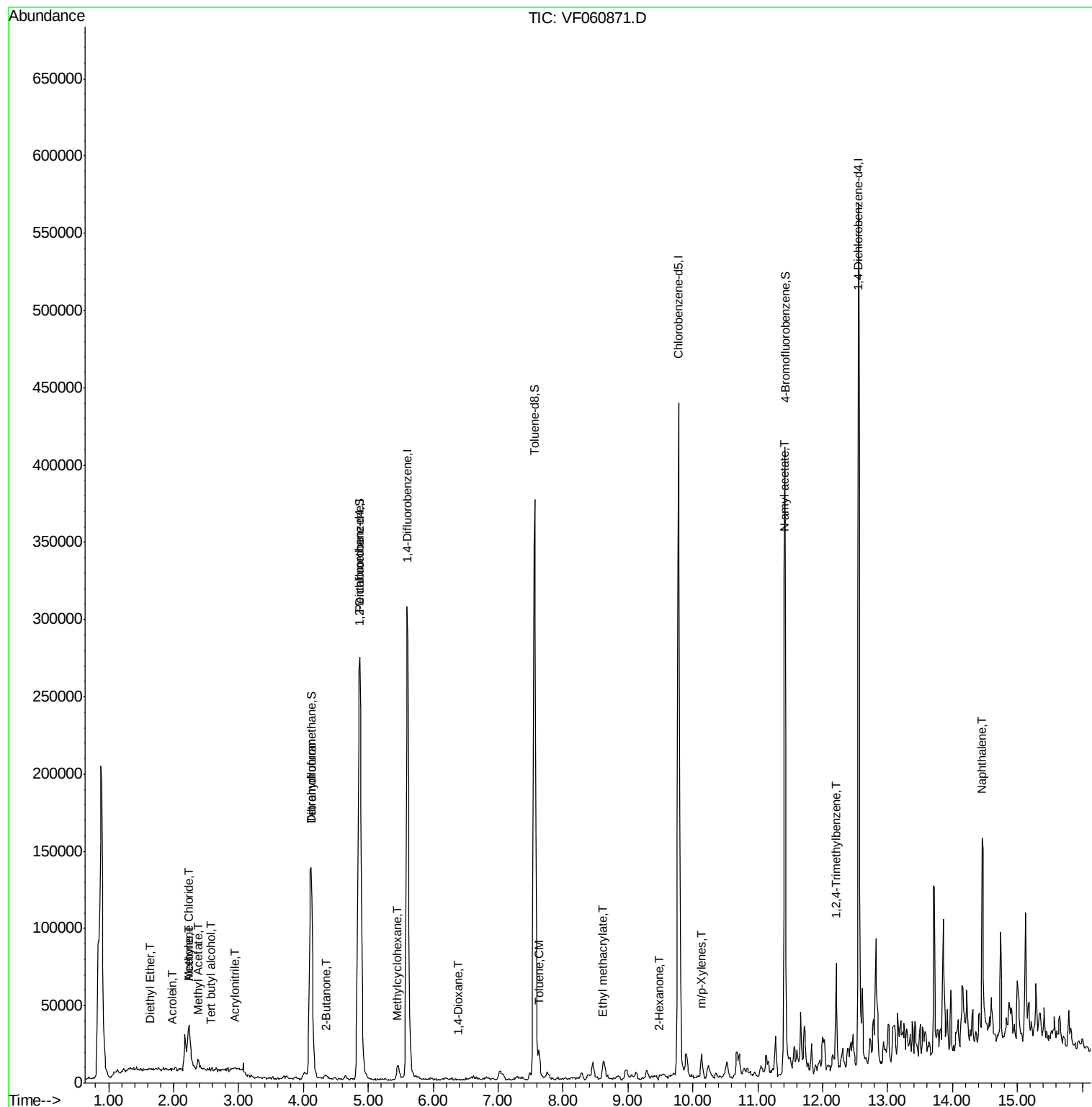
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	902	1.581	ug/l	64
11) Tert butyl alcohol	2.57	59	198	2.012	ug/l #	62
13) Acrolein	1.99	56	472	5.062	ug/l	87
15) Acrylonitrile	2.95	53	451	2.044	ug/l	95
16) Acetone	2.24	43	22634	51.123	ug/l #	91
18) Methyl Acetate	2.37	43	2932	2.375	ug/l #	84
20) Methylene Chloride	2.23	84	11634	7.163	ug/l #	86
25) 2-Butanone	4.35	43	7393	9.654	ug/l	96
29) Tetrahydrofuran	4.11	42	984	3.031	ug/l #	58
39) Methylcyclohexane	5.46	83	5899	1.528	ug/l #	91
41) Methacrylonitrile	4.75	41	101	Below Cal	#	34
43) Isopropyl Acetate	6.97	43	295	Below Cal	#	49
49) 1,4-Dioxane	6.40	88	73	7.359	ug/l #	26
52) Toluene	7.63	92	7365	1.288	ug/l	76
56) Ethyl methacrylate	8.63	69	6351	3.431	ug/l #	76
59) 2-Hexanone	9.50	43	2074	2.141	ug/l	94
68) m/p-Xylenes	10.14	106	5388	1.395	ug/l	96
74) N-amyl acetate	11.40	43	2556	1.009	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.21	105	25790	2.900	ug/l	94
95) Naphthalene	14.46	128	44489	4.376	ug/l #	94

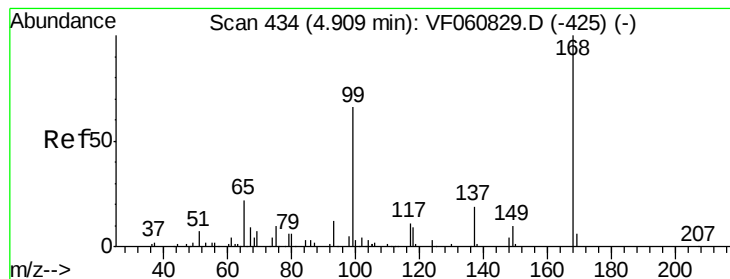
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

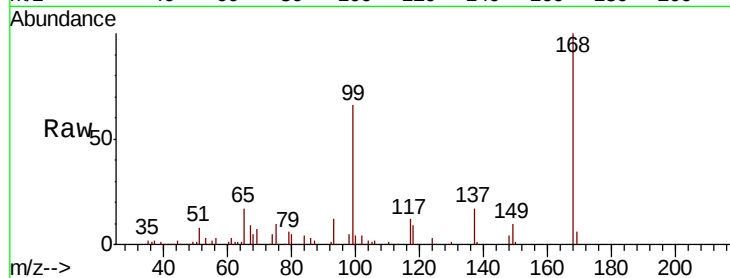
OR-03-112918-B

Tot Ion:168 Resp: 203804

Ion Ratio Lower Upper

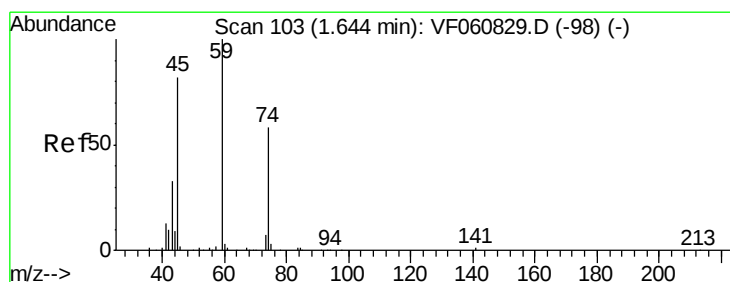
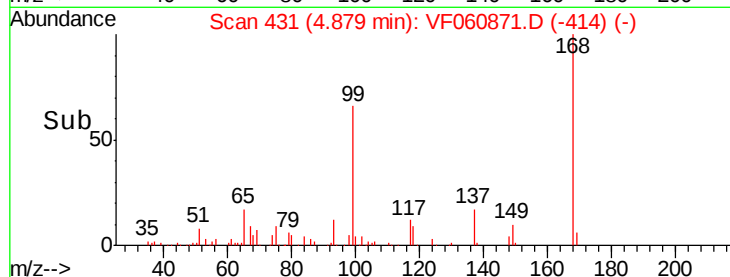
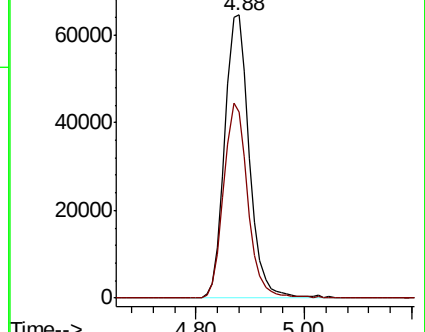
168 100

99 65.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.581 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060871.D

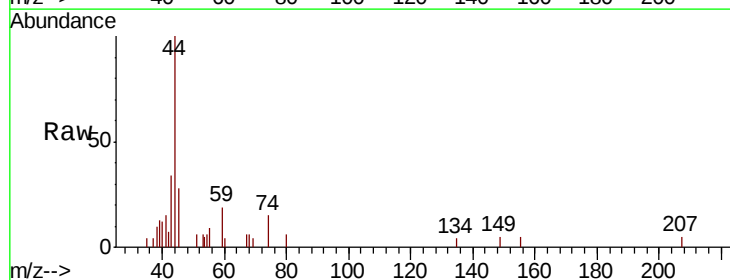
Acq: 29 Nov 2018 17:18

Tgt Ion: 74 Resp: 902

Ion Ratio Lower Upper

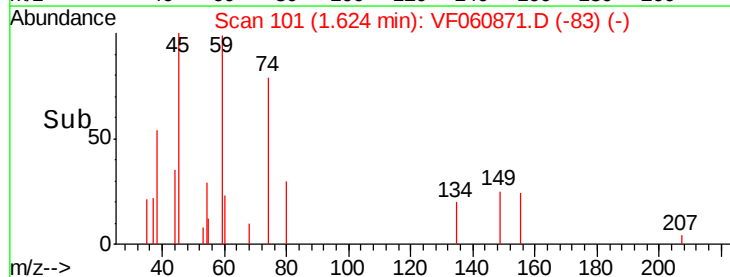
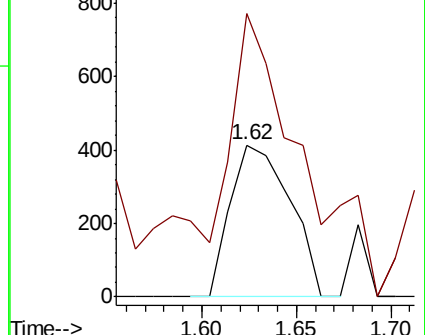
74 100

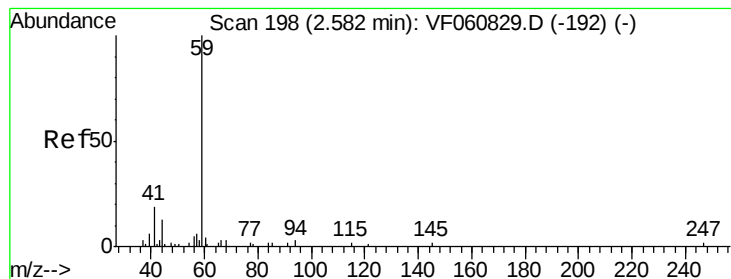
45 186.2 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



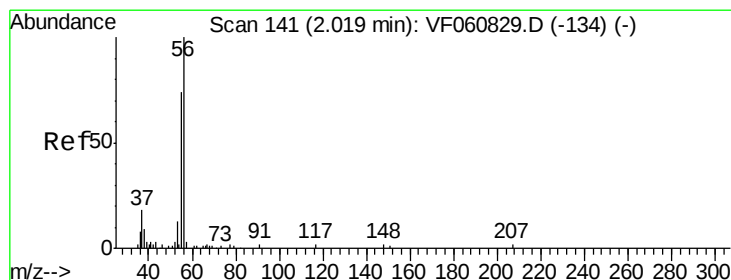
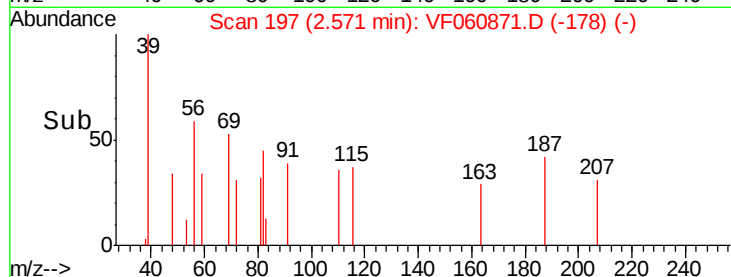
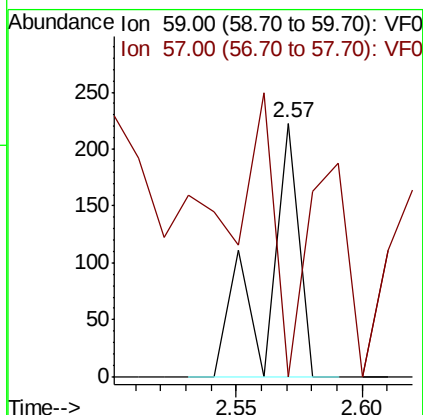
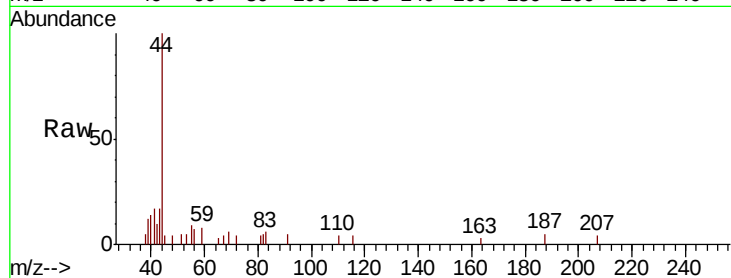


#11

Tert butyl alcohol
Concen: 2.012 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

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

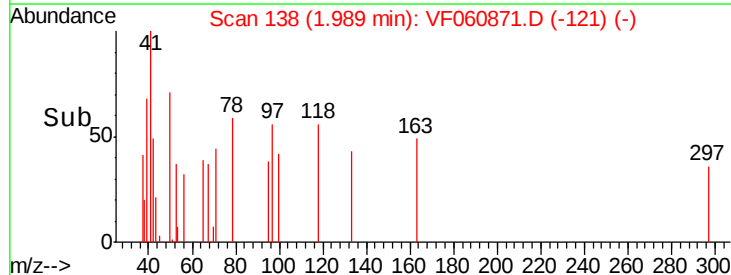
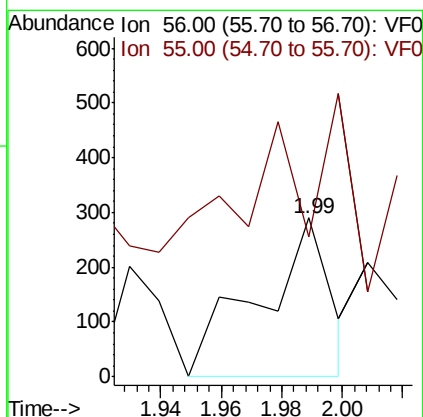
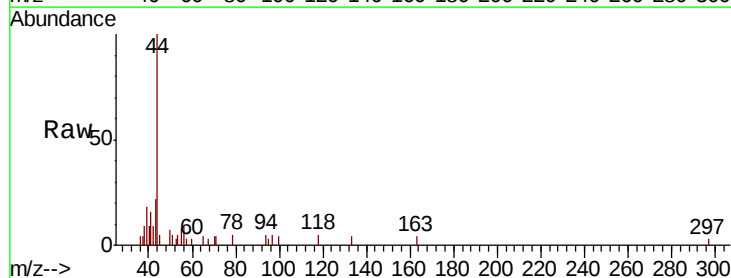
Tot Ion: 59 Resp: 198
Ion Ratio Lower Upper
59 100
57 0.0 12.7 19.1#

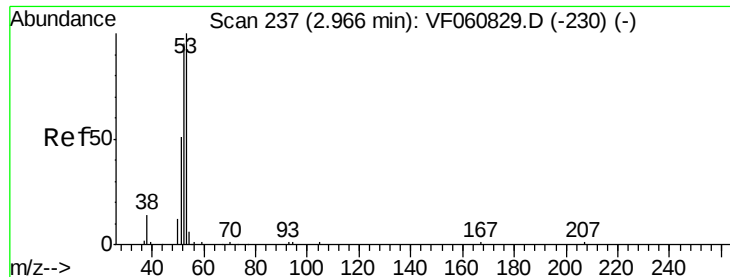


#13

Acrolein
Concen: 5.062 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 56 Resp: 472
Ion Ratio Lower Upper
56 100
55 87.9 61.2 91.8





#15

Acrylonitrile

Concen: 2.044 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-B

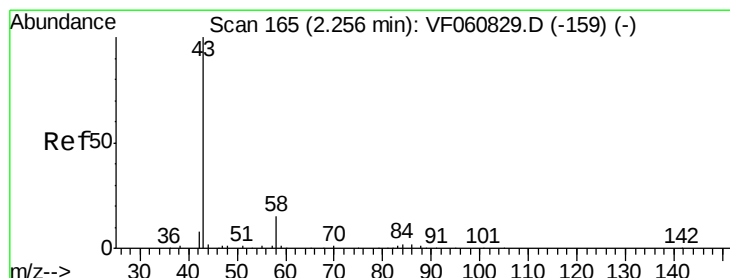
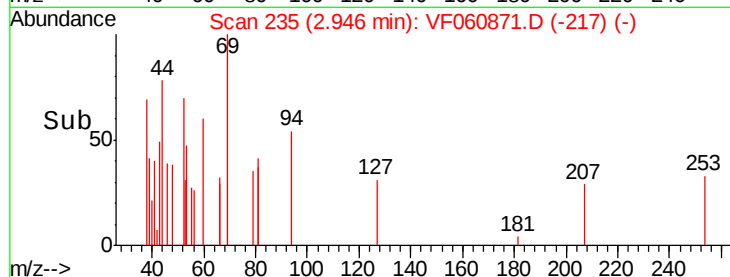
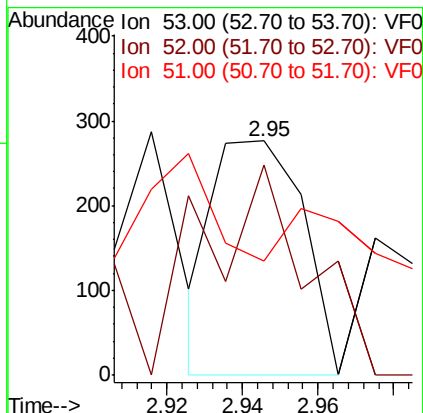
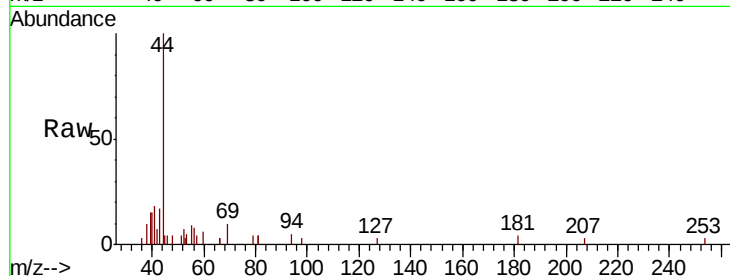
Tot Ion: 53 Resp: 451

Ion Ratio Lower Upper

53 100

52 89.9 76.5 114.7

51 48.9 40.7 61.1



#16

Acetone

Concen: 51.123 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060871.D

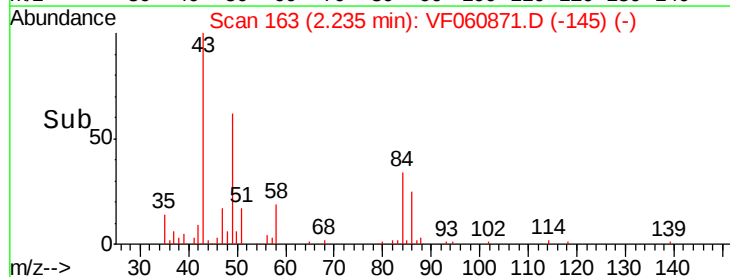
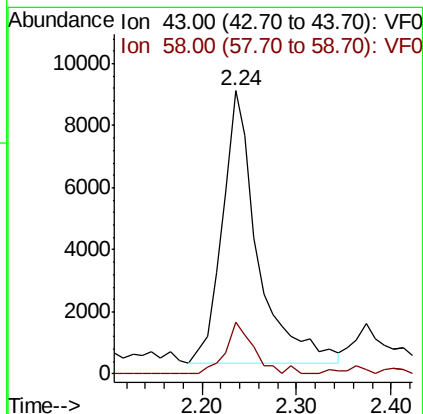
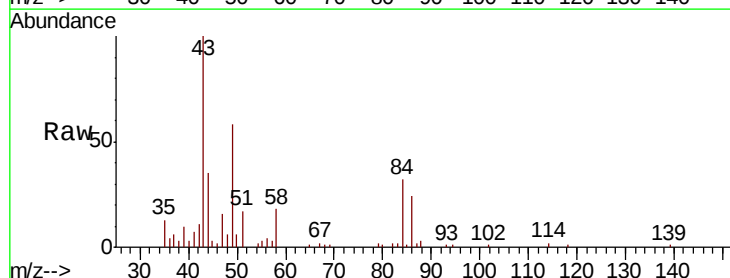
Acq: 29 Nov 2018 17:18

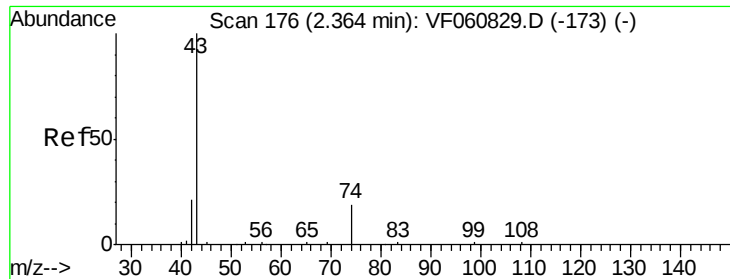
Tgt Ion: 43 Resp: 22634

Ion Ratio Lower Upper

43 100

58 18.1 11.4 17.2#

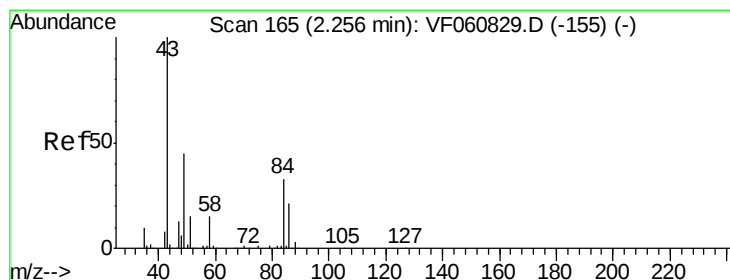
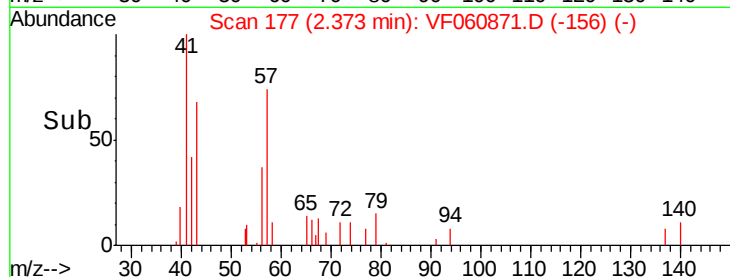
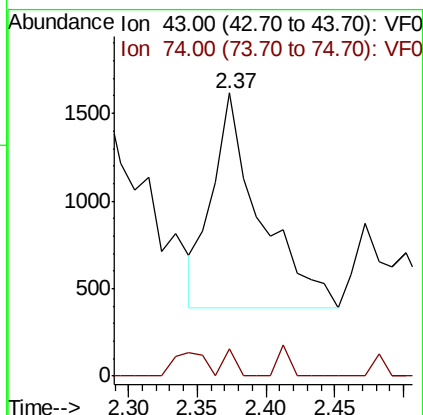
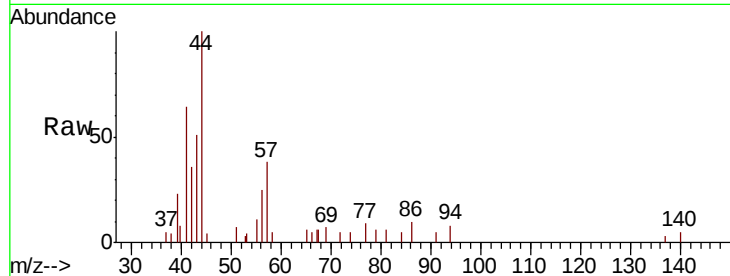




#18
Methyl Acetate
Concen: 2.375 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

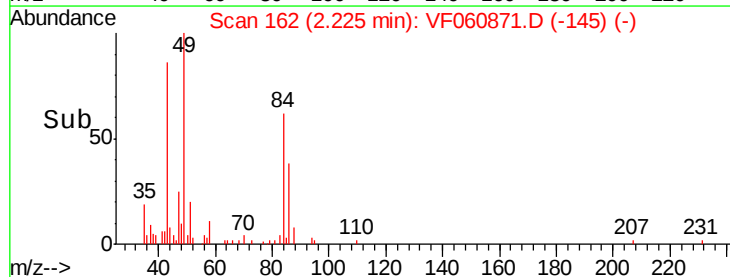
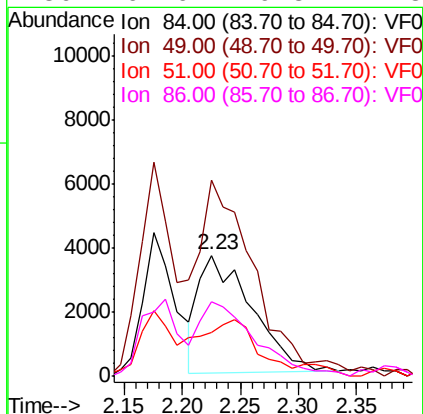
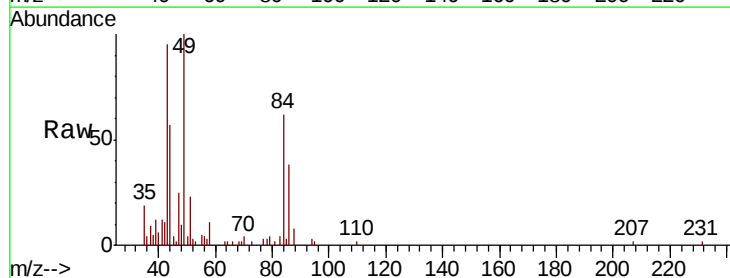
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ClientSampleId :
OR-03-112918-B

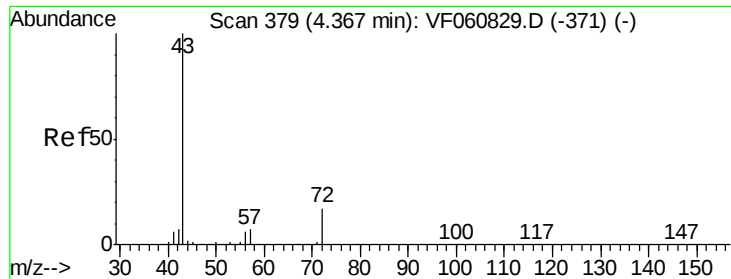
Tot Ion: 43 Resp: 2932
Ion Ratio Lower Upper
43 100
74 9.5 13.3 19.9#



#20
Methylene Chloride
Concen: 7.163 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 84 Resp: 11634
Ion Ratio Lower Upper
84 100
49 162.2 111.3 166.9
51 36.5 38.0 57.0#
86 61.6 49.8 74.8

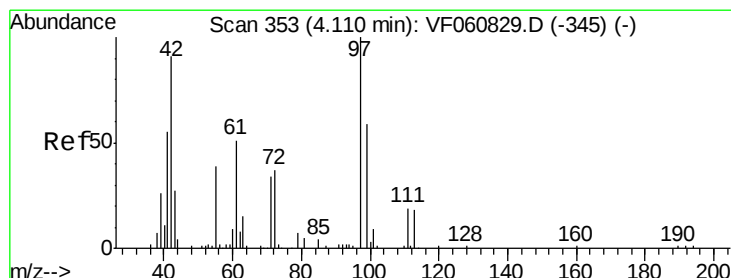
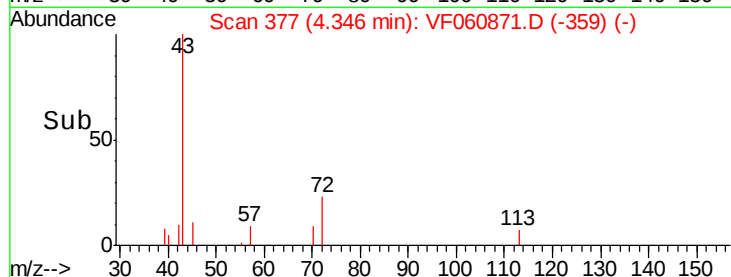
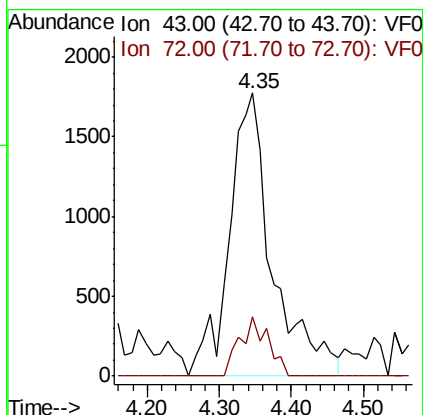
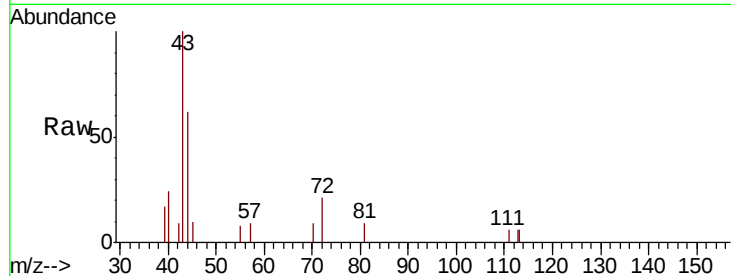




#25
2-Butanone
Concen: 9.654 ug/l
RT: 4.35 min Scan# 377
Delta R.T. -0.02 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

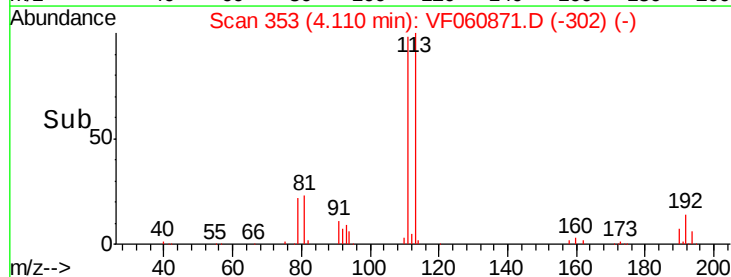
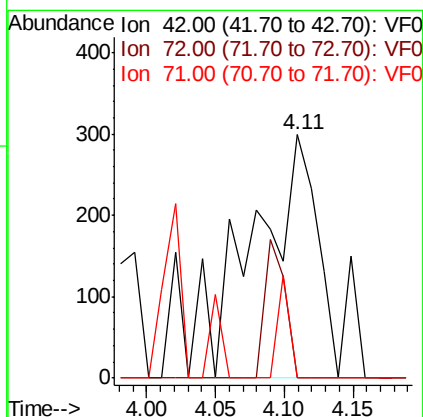
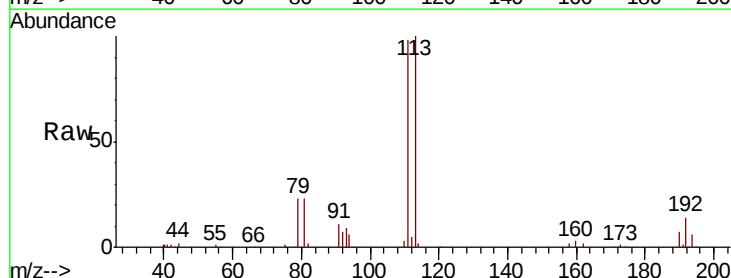
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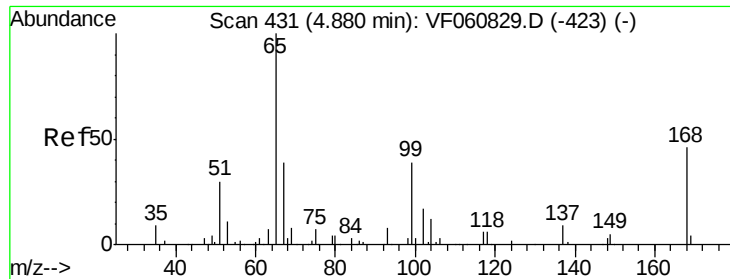
Tot Ion: 43 Resp: 7393
Ion Ratio Lower Upper
43 100
72 21.0 15.4 23.2



#29
Tetrahydrofuran
Concen: 3.031 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 42 Resp: 984
Ion Ratio Lower Upper
42 100
72 17.8 31.9 47.9#
71 7.6 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 51.809 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

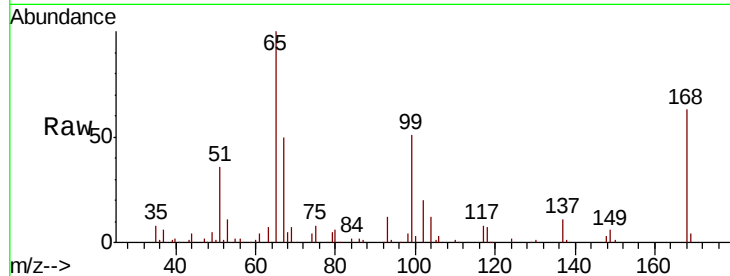
OR-03-112918-B

Tot Ion: 65 Resp: 124386

Ion Ratio Lower Upper

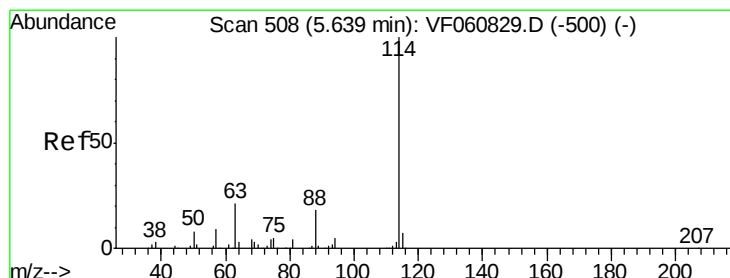
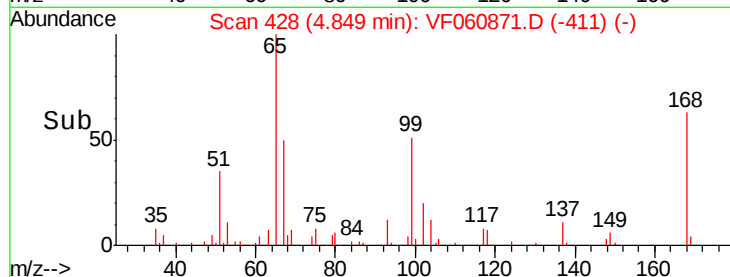
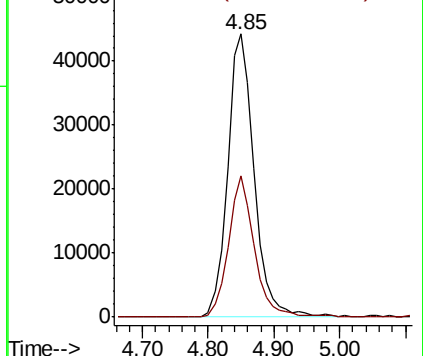
65 100

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

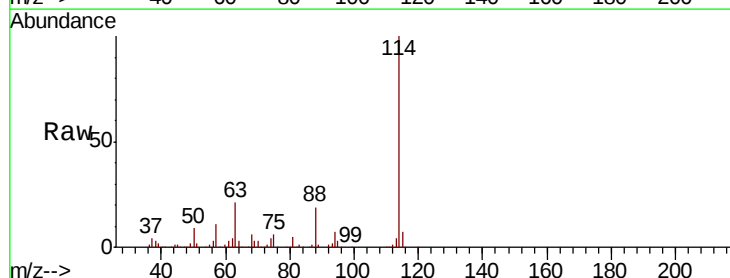
Tgt Ion: 114 Resp: 332211

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

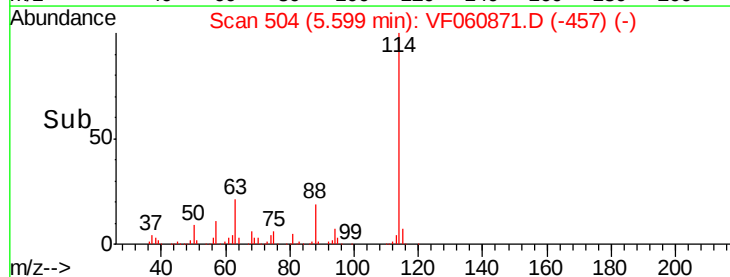
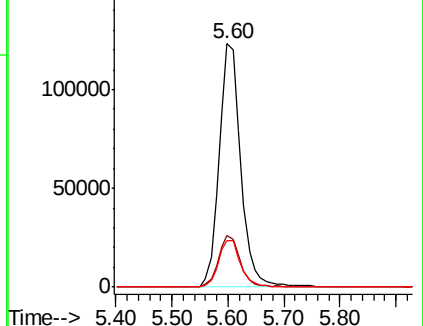
88 19.0 0.0 36.6

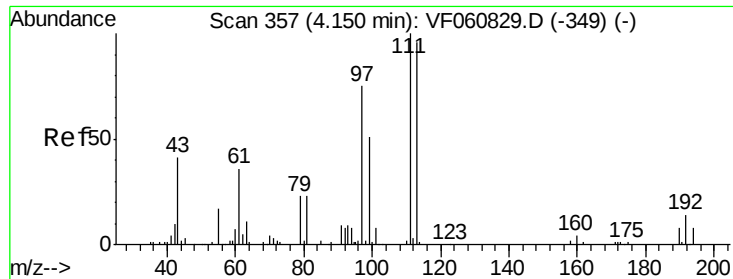


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

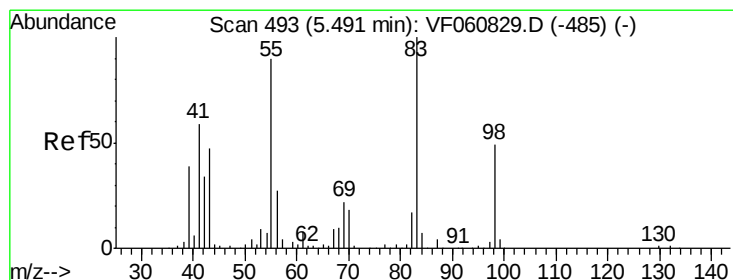
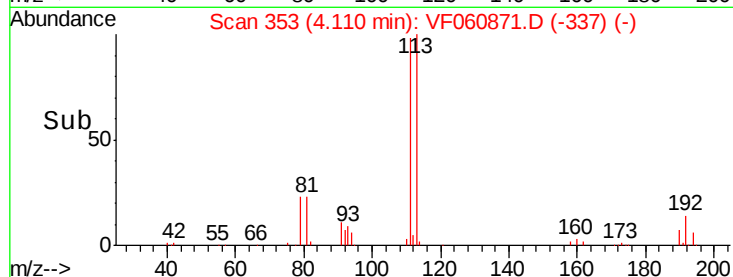
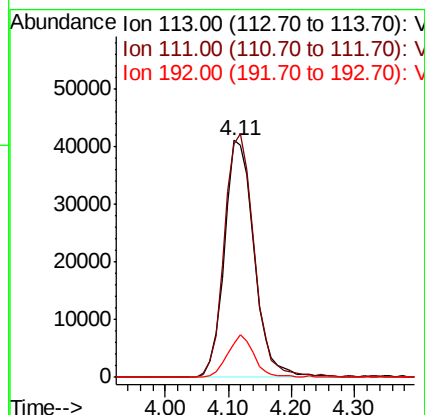
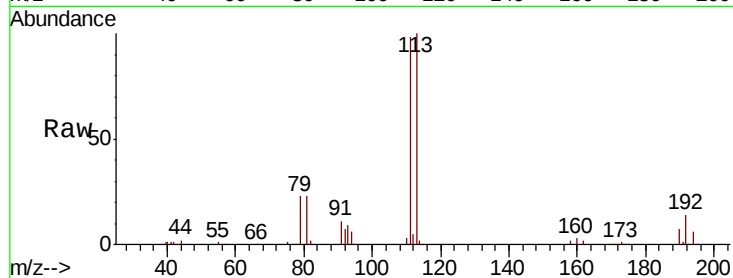




#35
Dibromofluoromethane
Concen: 51.363 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

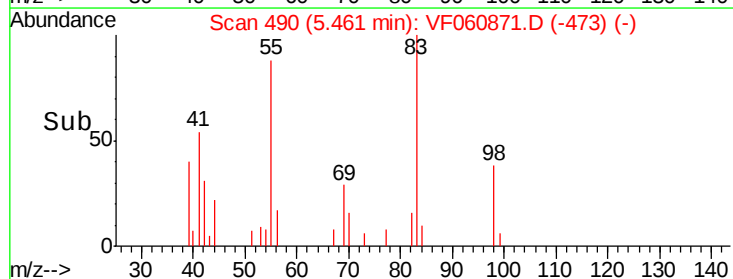
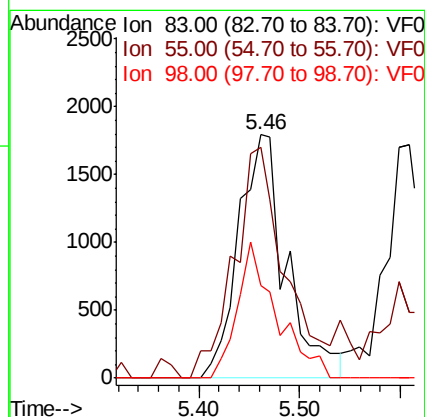
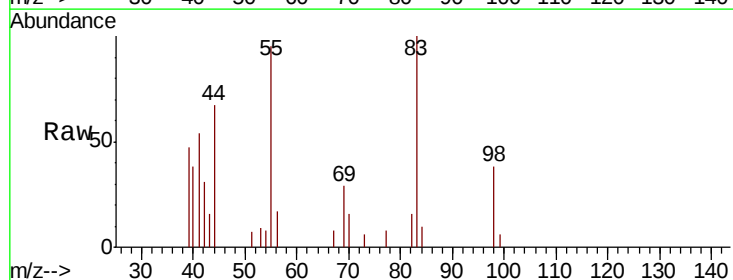
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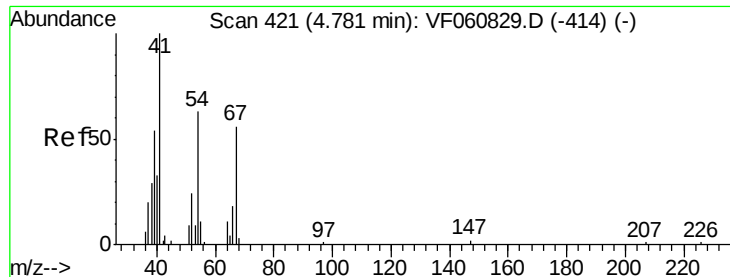
Tot Ion:113 Resp: 135367
Ion Ratio Lower Upper
113 100
111 98.3 83.0 124.6
192 14.2 12.3 18.5



#39
Methylcyclohexane
Concen: 1.528 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 83 Resp: 5899
Ion Ratio Lower Upper
83 100
55 94.8 72.1 108.1
98 38.1 39.1 58.7#

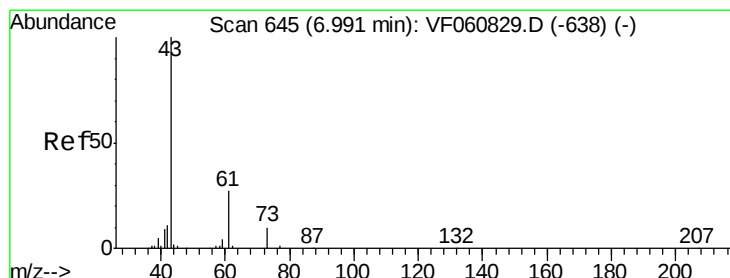
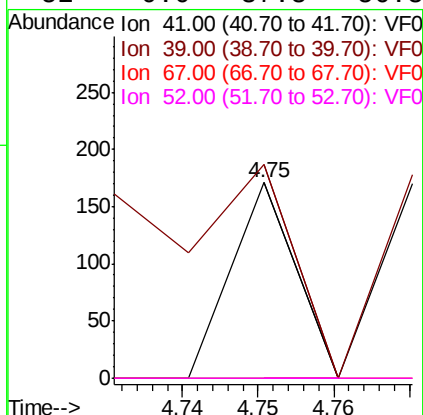
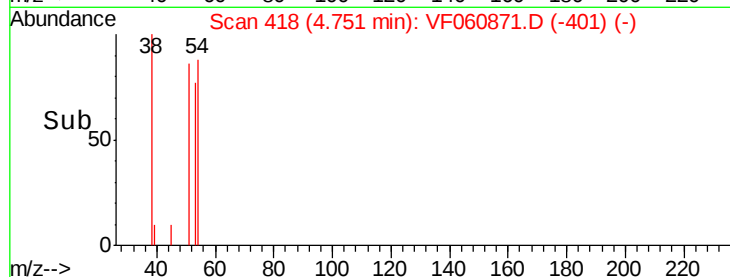
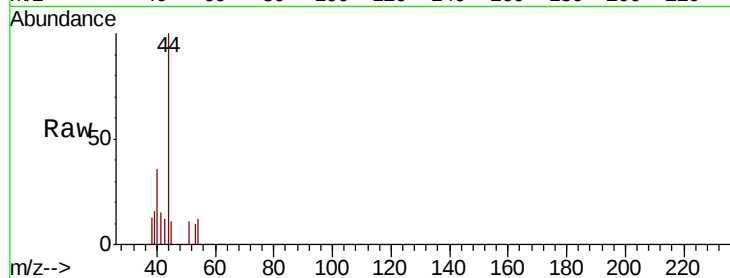




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

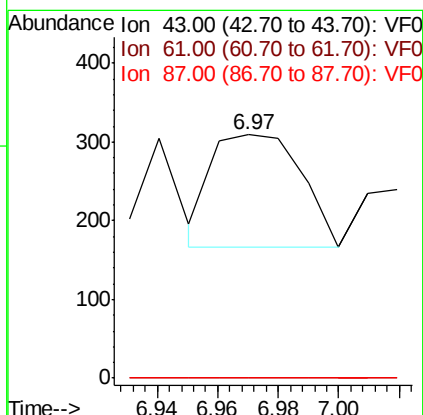
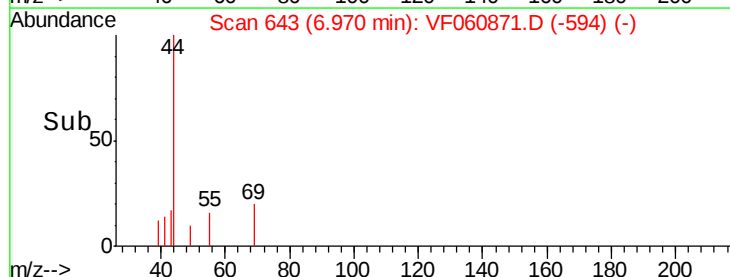
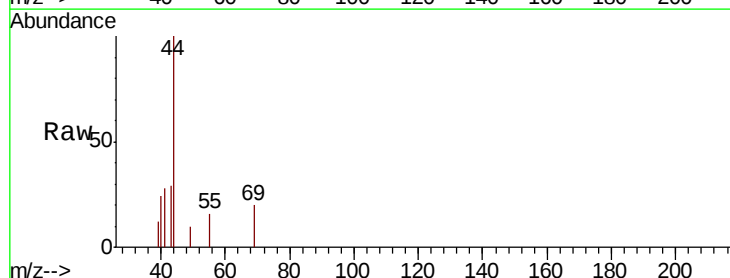
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-B

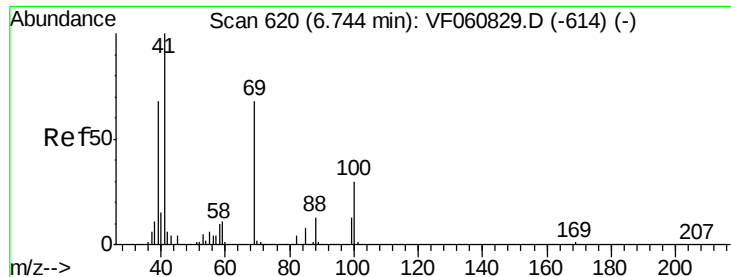
Tot Ion:	41	Resp:	101
Ion	Ratio	Lower	Upper
41	100		
39	109.4	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.97 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion:	43	Resp:	295
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

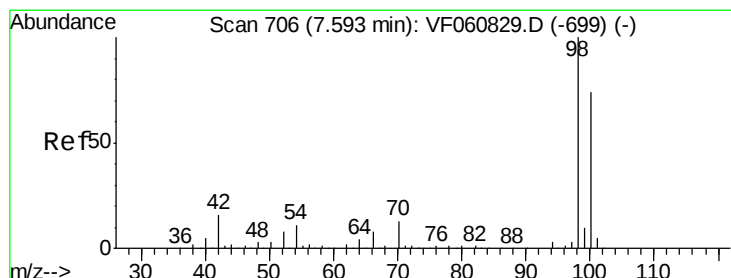
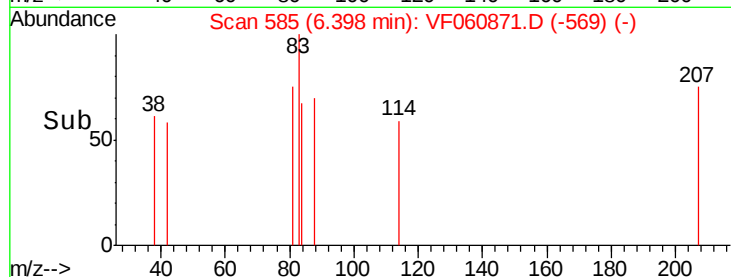
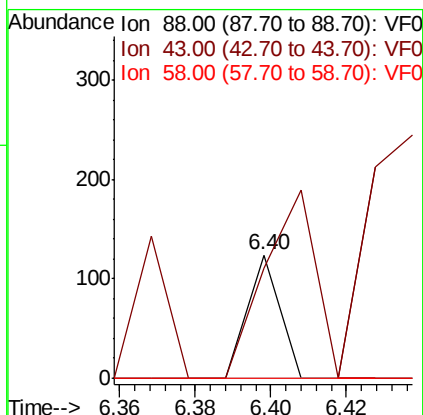
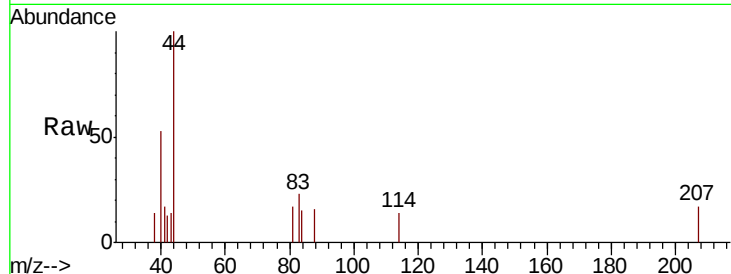




#49
1,4-Dioxane
Concen: 7.359 ug/l
RT: 6.40 min Scan# 585
Delta R.T. -0.35 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

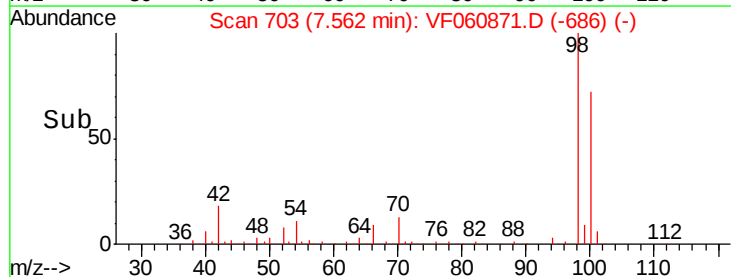
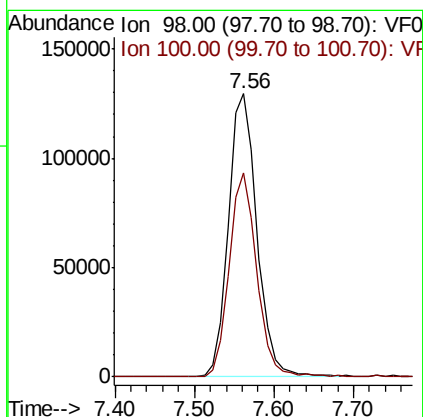
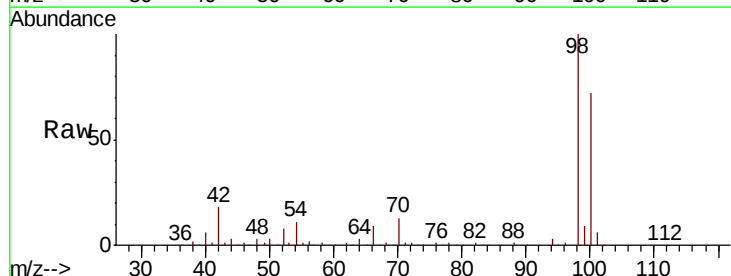
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-B

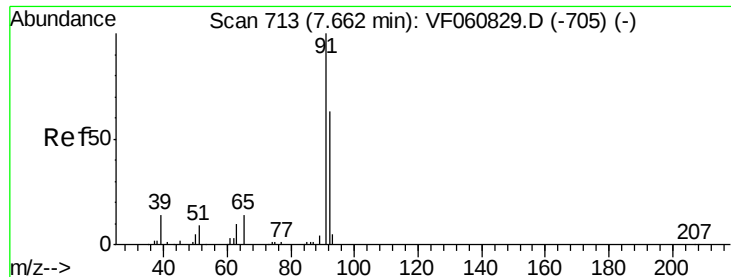
Tot Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 89.5 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 41.792 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 98 Resp: 324448
Ion Ratio Lower Upper
98 100
100 72.1 59.3 88.9





#52

Toluene

Concen: 1.288 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

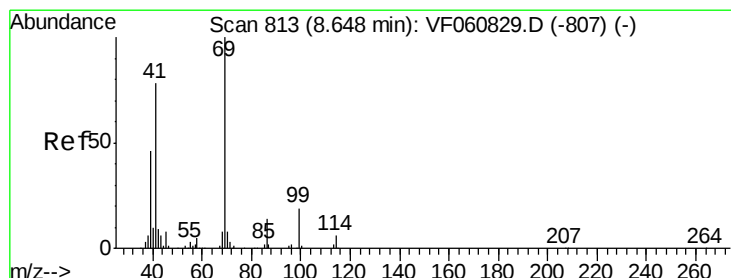
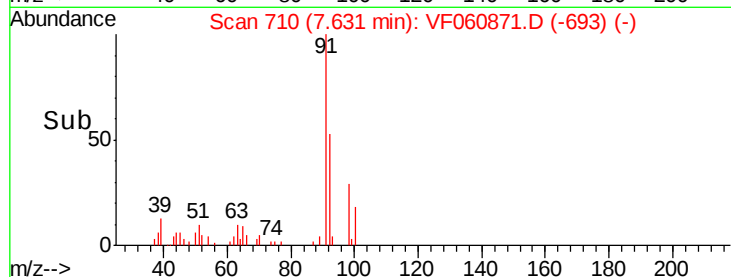
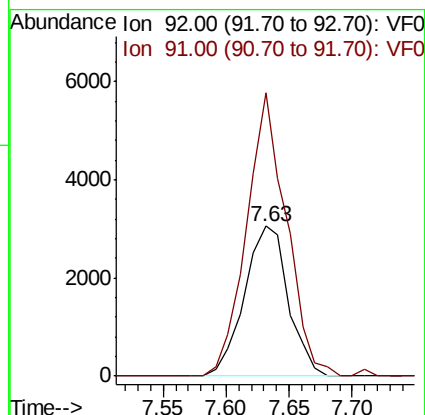
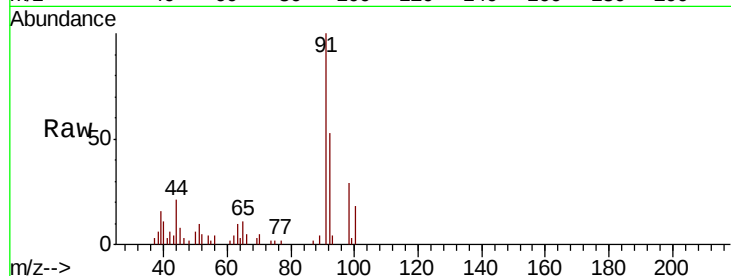
OR-03-112918-B

Tot Ion: 92 Resp: 7365

Ion Ratio Lower Upper

92 100

91 188.6 126.2 189.2



#56

Ethyl methacrylate

Concen: 3.431 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

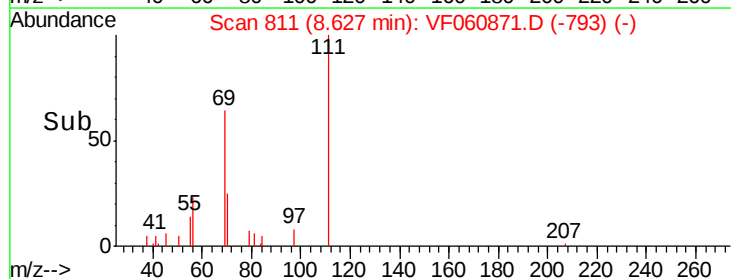
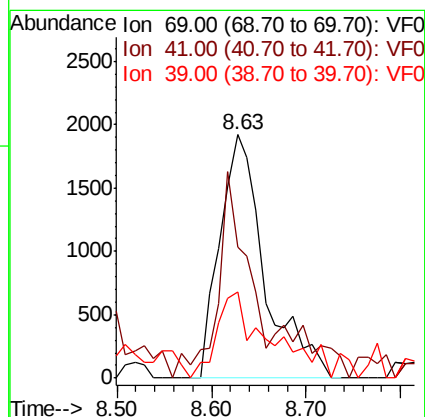
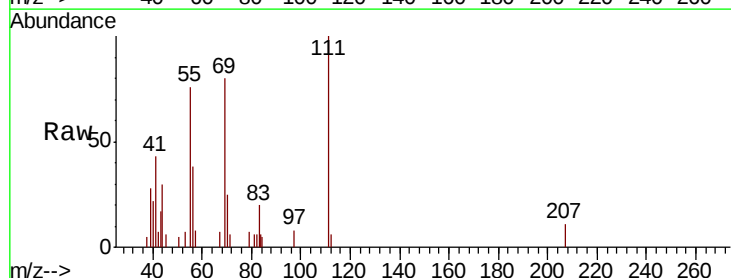
Tgt Ion: 69 Resp: 6351

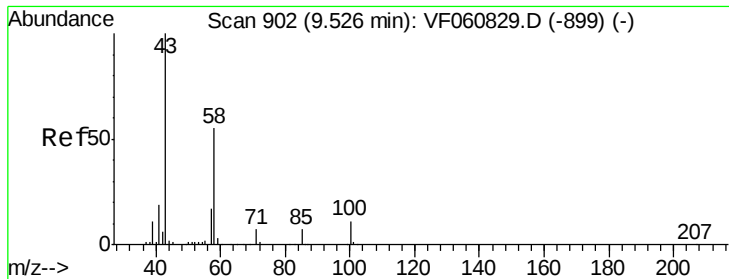
Ion Ratio Lower Upper

69 100

41 53.8 62.6 94.0#

39 35.2 37.8 56.6#

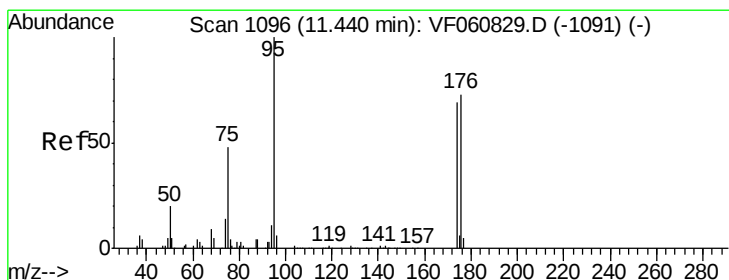
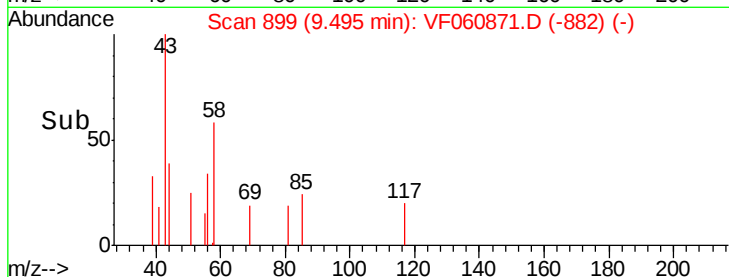
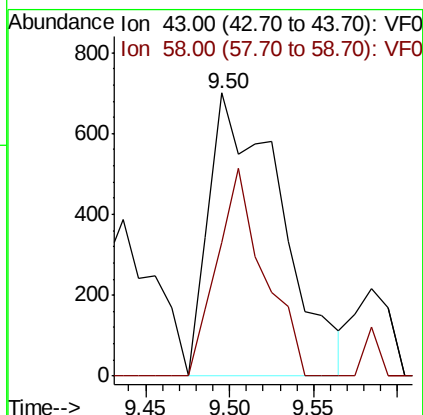
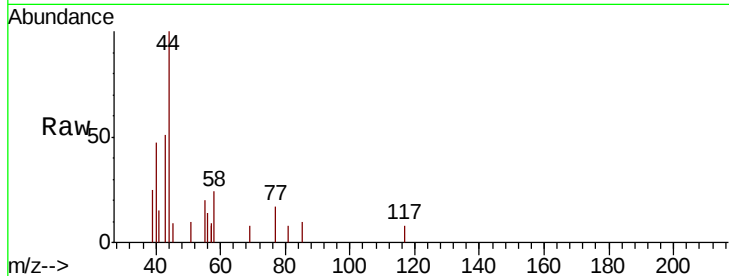




#59
2-Hexanone
Concen: 2.141 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

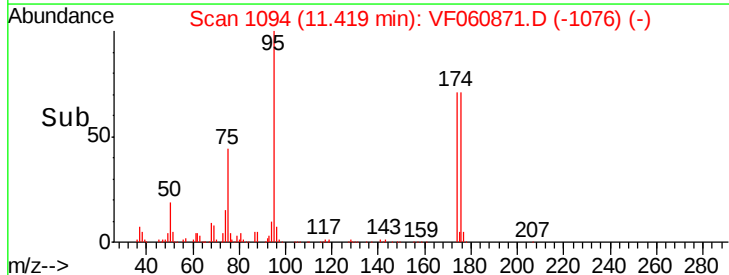
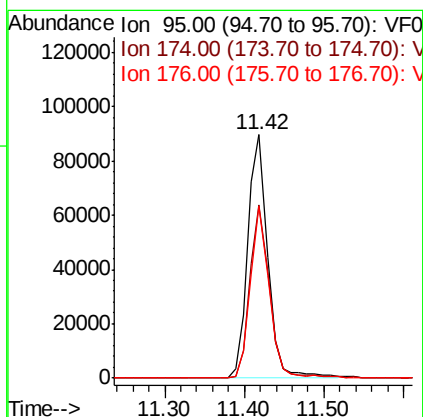
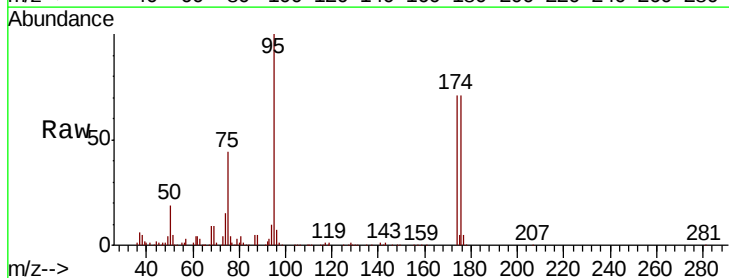
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-B

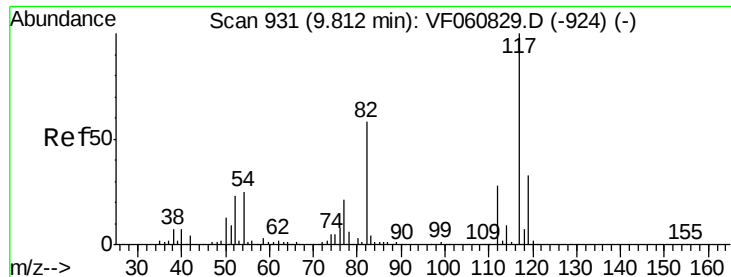
Tot Ion: 43 Resp: 2074
Ion Ratio Lower Upper
43 100
58 47.0 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 43.580 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion: 95 Resp: 153766
Ion Ratio Lower Upper
95 100
174 71.0 0.0 138.2
176 70.5 0.0 146.2

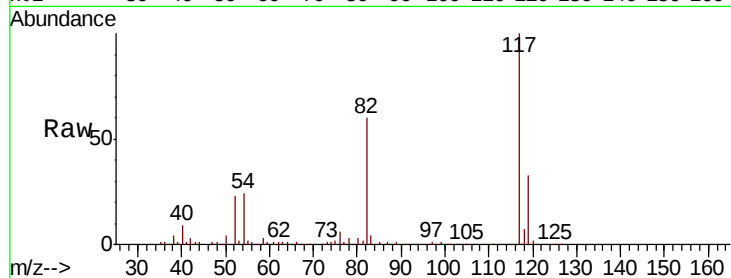




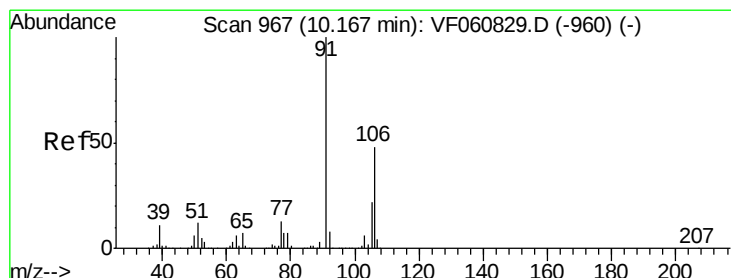
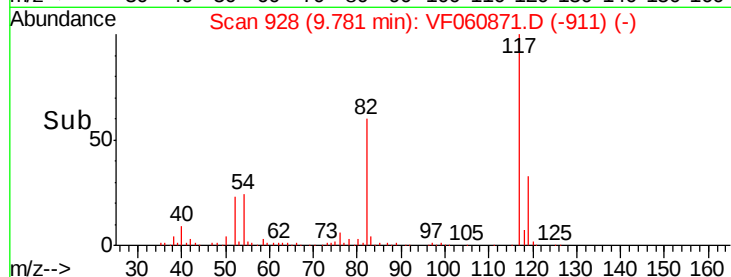
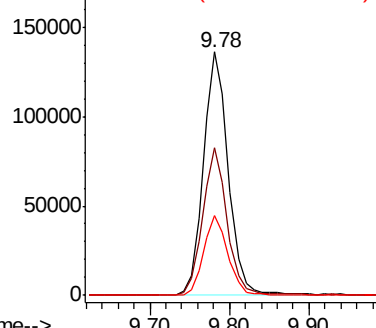
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

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

Tot Ion:117 Resp: 296515
Ion Ratio Lower Upper
117 100
82 60.4 46.6 69.8
119 32.8 26.4 39.6

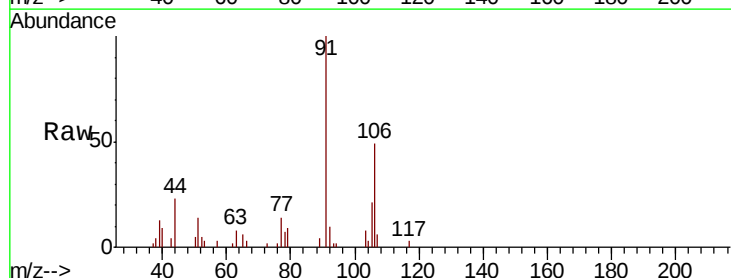


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

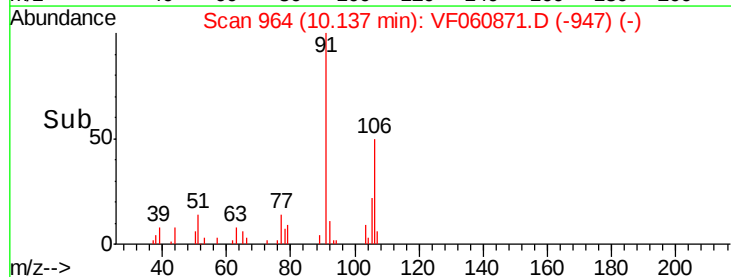
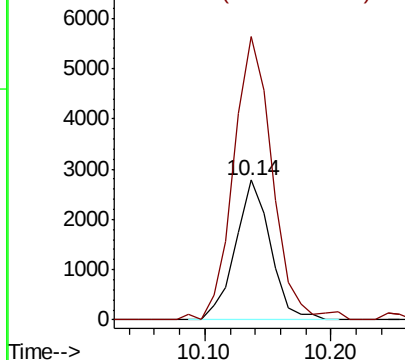


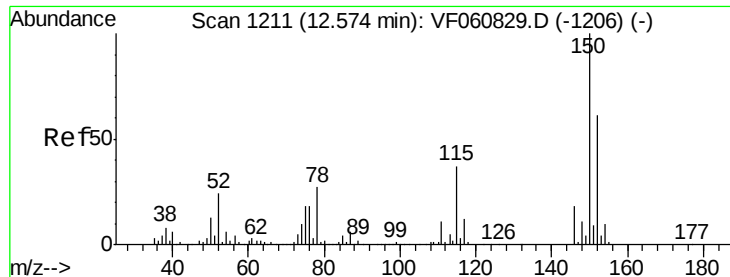
#68
m/p-Xylenes
Concen: 1.395 ug/l
RT: 10.14 min Scan# 964
Delta R.T. -0.03 min
Lab File: VF060871.D
Acq: 29 Nov 2018 17:18

Tgt Ion:106 Resp: 5388
Ion Ratio Lower Upper
106 100
91 202.7 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-B

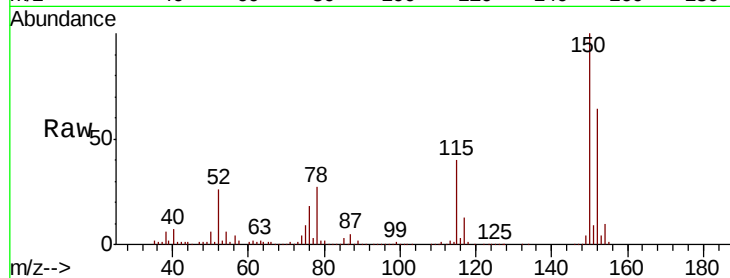
Tot Ion:152 Resp: 138879

Ion Ratio Lower Upper

152 100

115 61.9 30.1 90.5

150 156.4 0.0 327.6

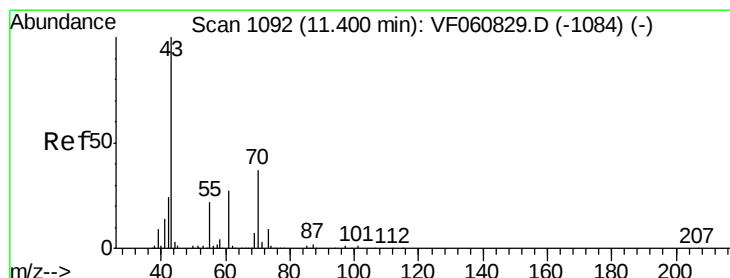
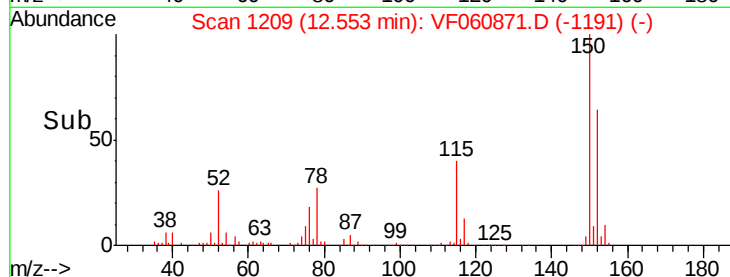
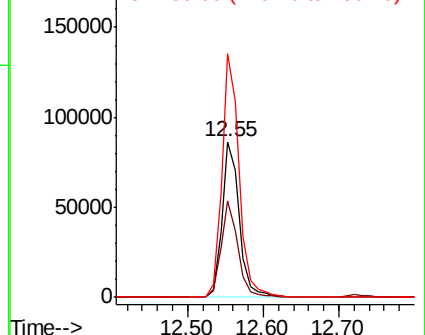


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 1.009 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF060871.D

Acq: 29 Nov 2018 17:18

Tgt Ion: 43 Resp: 2556

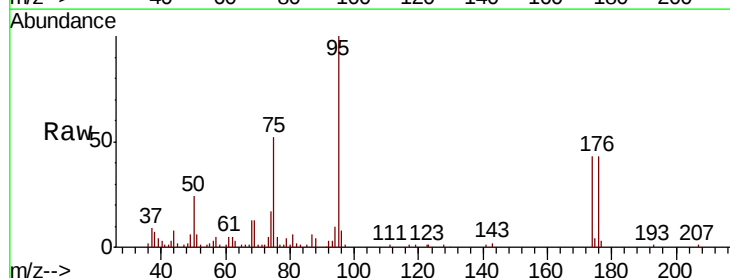
Ion Ratio Lower Upper

43 100

70 45.2 29.6 44.4#

55 80.6 17.2 25.8#

61 172.2 21.8 32.6#



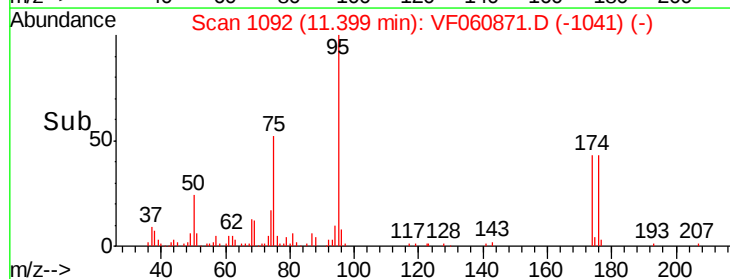
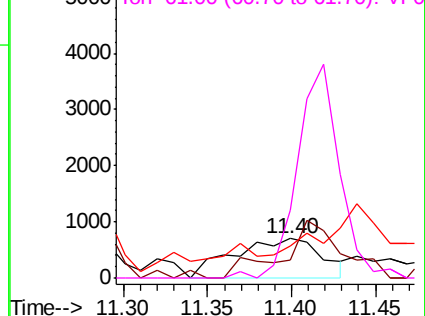
Abundance

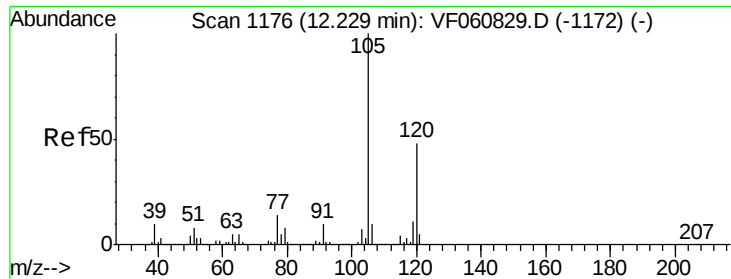
Ion 43.00 (42.70 to 43.70): VF0

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

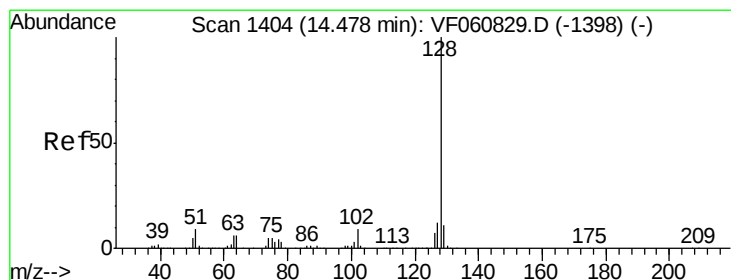
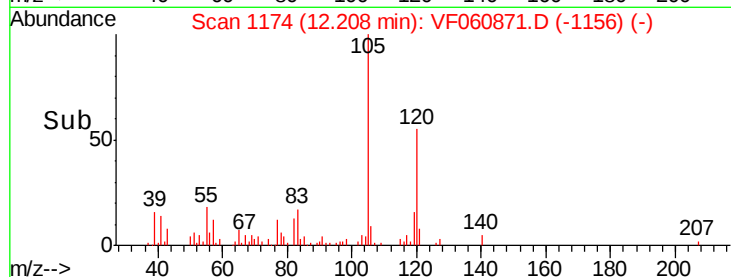
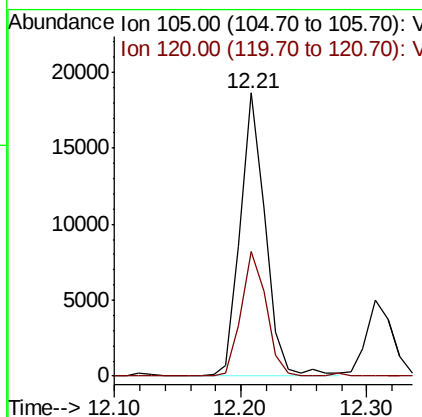
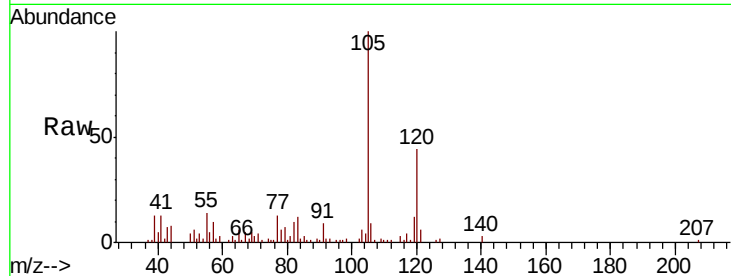




#84
 1,2,4-Trimethylbenzene
 Concen: 2.900 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060871.D
 Acq: 29 Nov 2018 17:18

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

Tot Ion:105 Resp: 25790
 Ion Ratio Lower Upper
 105 100
 120 43.9 23.8 71.5



#95
 Naphthalene
 Concen: 4.376 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF060871.D
 Acq: 29 Nov 2018 17:18

Tgt Ion:128 Resp: 44489
 Ion Ratio Lower Upper
 128 100
 127 14.9 9.9 14.9#
 129 9.3 9.1 13.7

