

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060872.D
 Acq On : 29 Nov 2018 17:47
 Operator : VA/AP
 Sample : J5770-13RE
 Misc : 7.05g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Nov 30 05:59:07 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

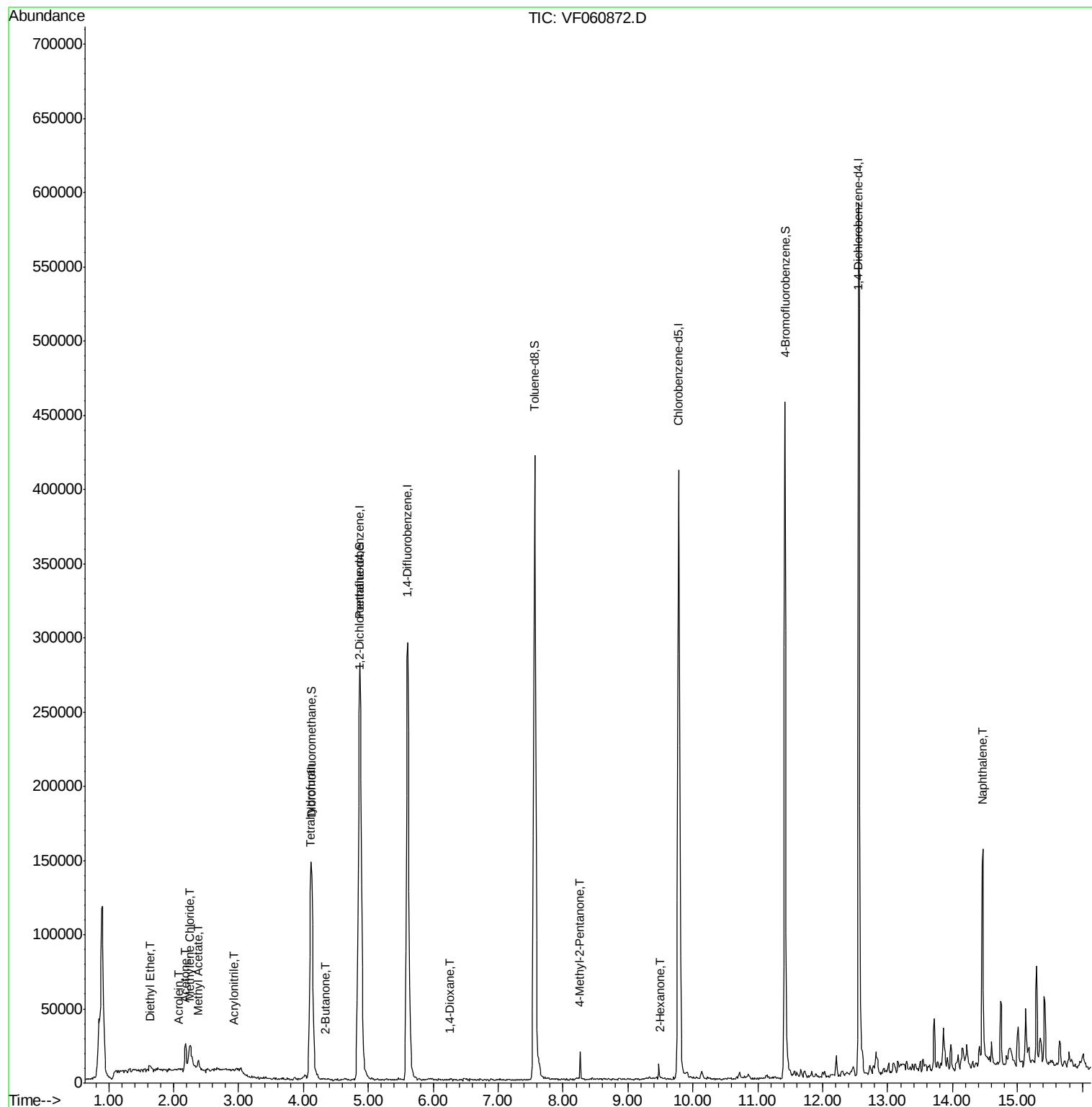
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	196060	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.61	114	337920	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	301902	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	149710	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	126145	54.62	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	109.24%	
35) Dibromofluoromethane	4.12	113	142414	53.12	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	106.24%	
50) Toluene-d8	7.56	98	352550	44.64	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	89.28%	
62) 4-Bromofluorobenzene	11.42	95	170208	47.42	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	94.84%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.63	74	1115	2.031	ug/l	95
13) Acrolein	2.09	56	621	6.923	ug/l	88
15) Acrylonitrile	2.92	53	600	2.827	ug/l #	10
16) Acetone	2.17	43	916	2.151	ug/l	96
18) Methyl Acetate	2.38	43	2090	1.317	ug/l #	61
20) Methylene Chloride	2.25	84	10825	6.928	ug/l #	88
25) 2-Butanone	4.34	43	1075	1.459	ug/l #	57
29) Tetrahydrofuran	4.10	42	476	1.524	ug/l #	66
41) Methacrylonitrile	4.78	41	257	Below Cal	#	27
43) Isopropyl Acetate	6.96	43	222	Below Cal	#	49
49) 1,4-Dioxane	6.26	88	89	8.820	ug/l #	30
51) 4-Methyl-2-Pentanone	8.26	43	1946	1.385	ug/l #	55
59) 2-Hexanone	9.50	43	1557	1.580	ug/l	77
95) Naphthalene	14.47	128	94694	12.307	ug/l	99

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

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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: VF060872.D

Acq: 29 Nov 2018 17:47

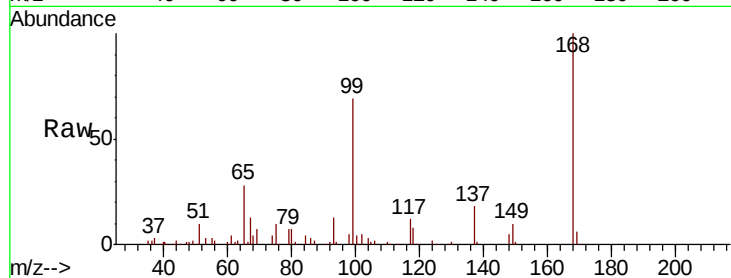
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-ARE

Tot Ion:168 Resp: 196060

Ion Ratio Lower Upper

168 100

99 69.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

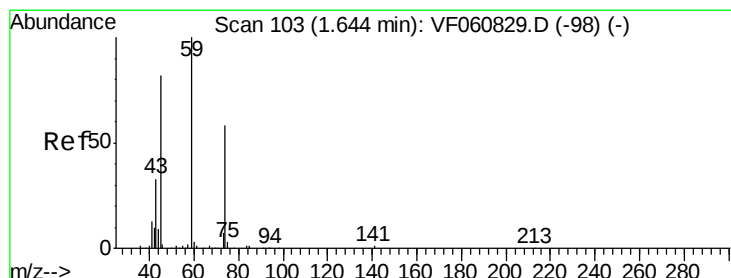
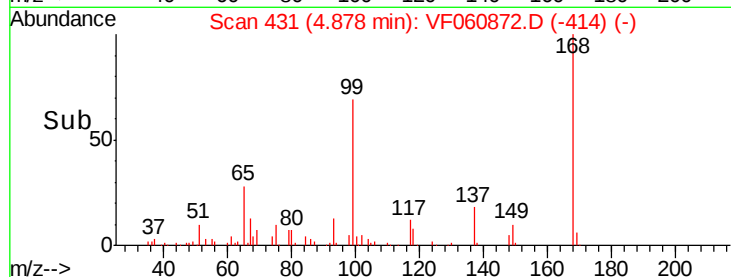
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 2.031 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF060872.D

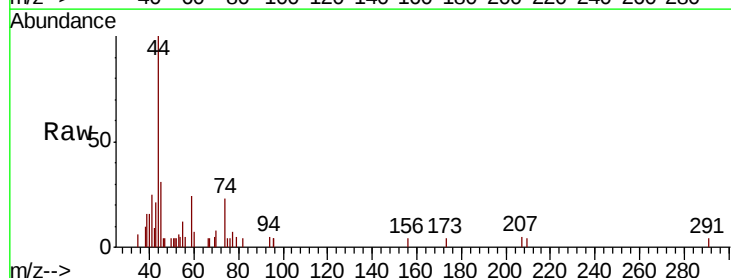
Acq: 29 Nov 2018 17:47

Tgt Ion: 74 Resp: 1115

Ion Ratio Lower Upper

74 100

45 136.2 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.63

1000

800

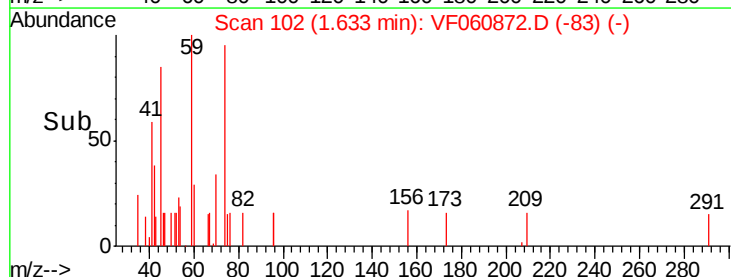
600

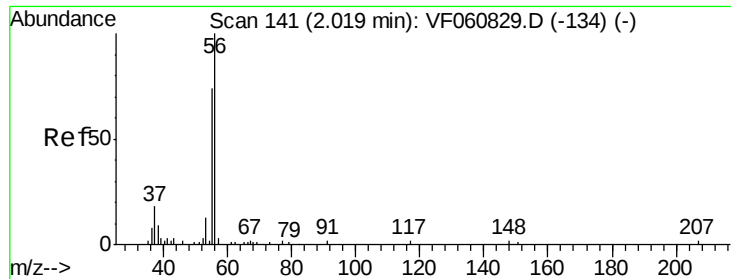
400

200

0

Time--> 1.55 1.60 1.65 1.70





#13

Acrolein

Concen: 6.923 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.07 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

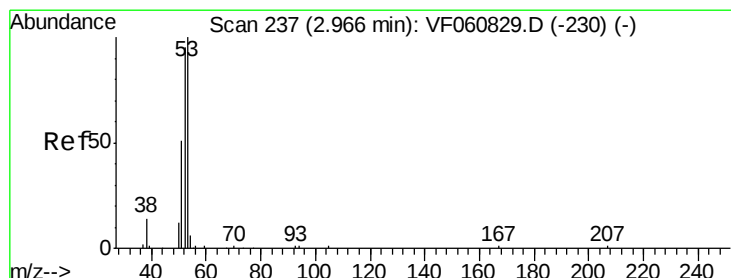
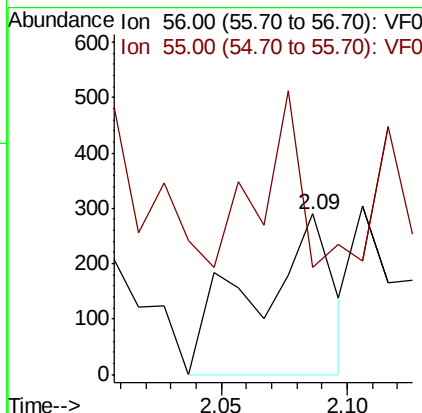
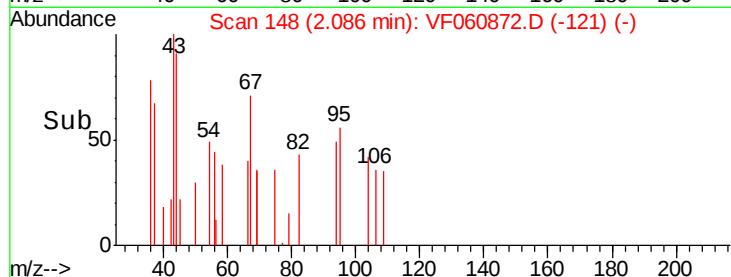
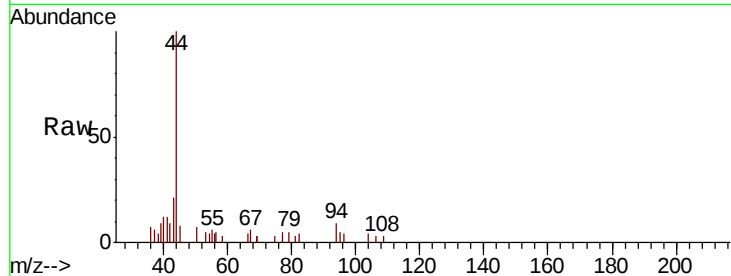
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-ARE

Tot Ion: 56 Resp: 621

Ion Ratio Lower Upper

56 100

55 66.6 61.2 91.8



#15

Acrylonitrile

Concen: 2.827 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

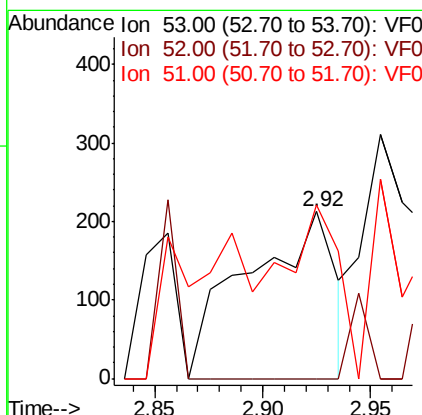
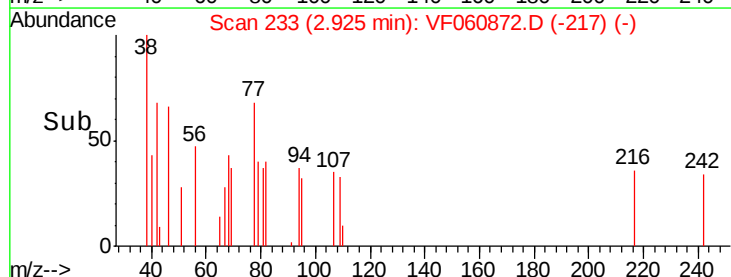
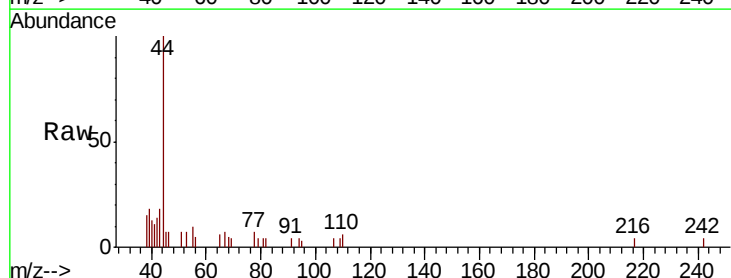
Tgt Ion: 53 Resp: 600

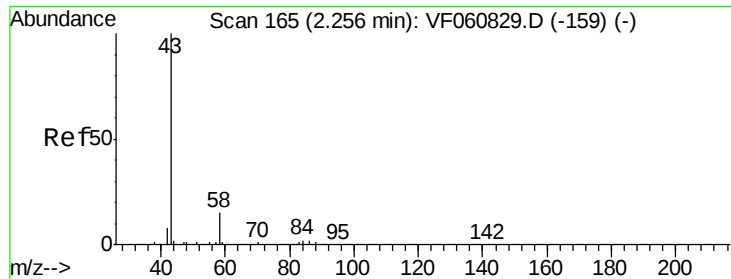
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 103.8 40.7 61.1#





#16

Acetone

Concen: 2.151 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.09 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

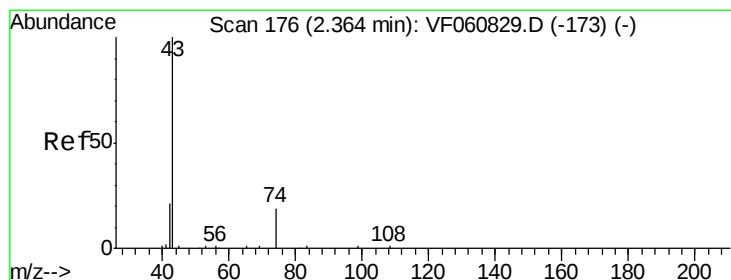
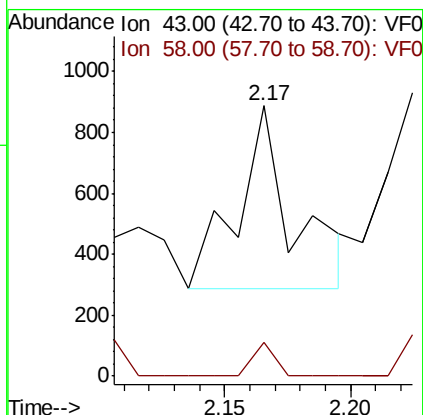
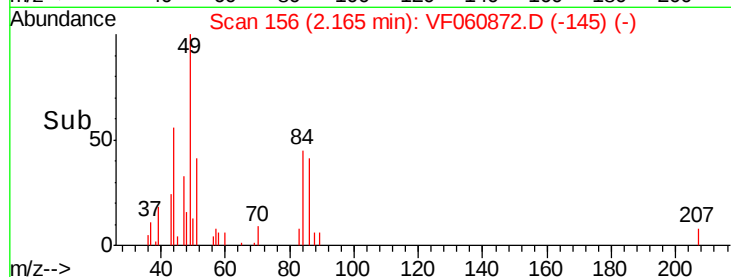
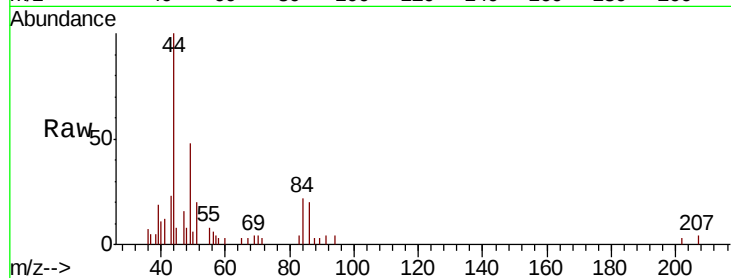
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-ARE

Tot Ion: 43 Resp: 916

Ion Ratio Lower Upper

43 100

58 12.6 11.4 17.2



#18

Methyl Acetate

Concen: 1.317 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.02 min

Lab File: VF060872.D

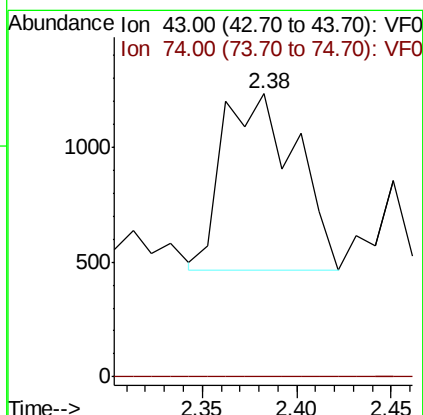
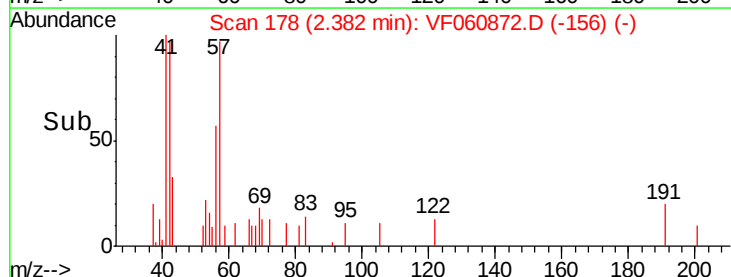
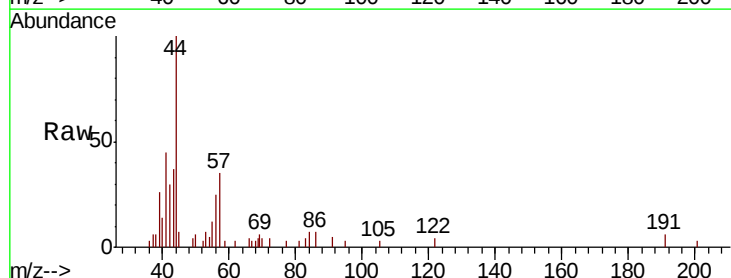
Acq: 29 Nov 2018 17:47

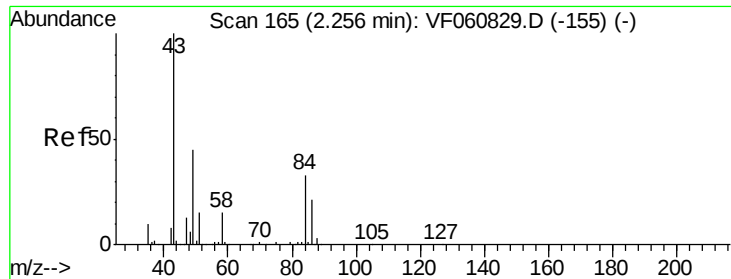
Tgt Ion: 43 Resp: 2090

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#

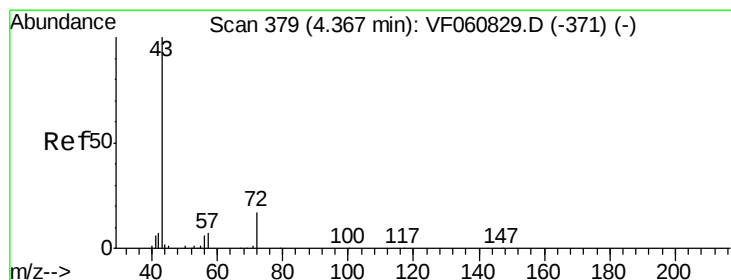
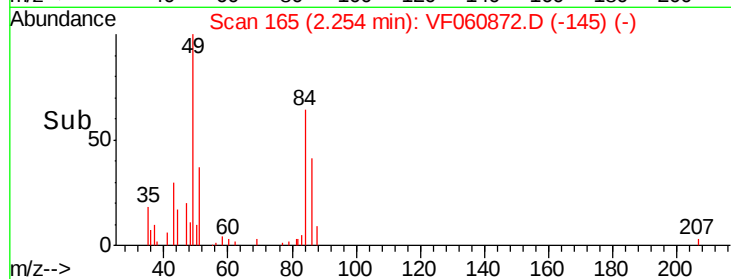
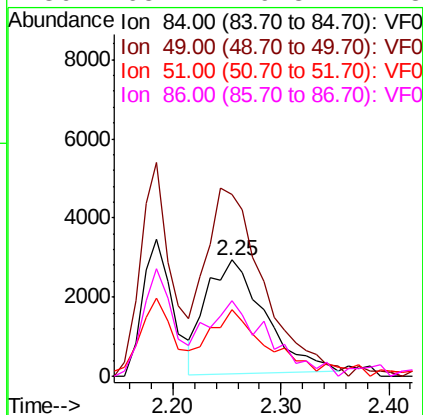
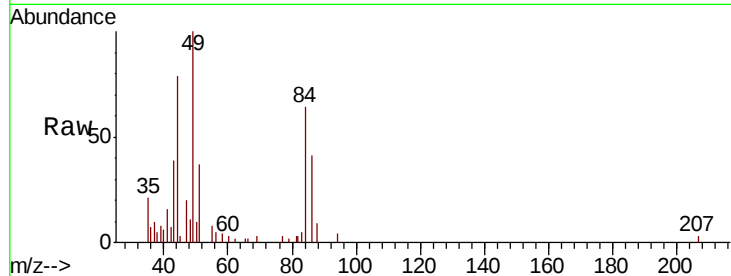




#20
Methylene Chloride
Concen: 6.928 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060872.D
Acq: 29 Nov 2018 17:47

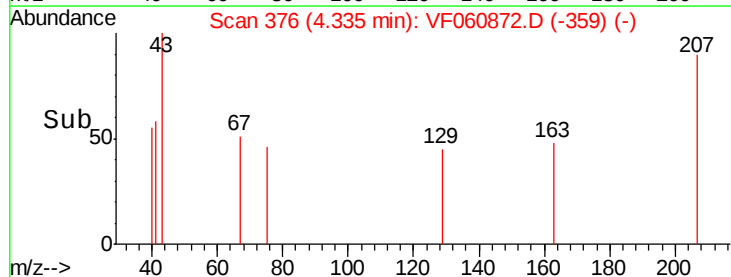
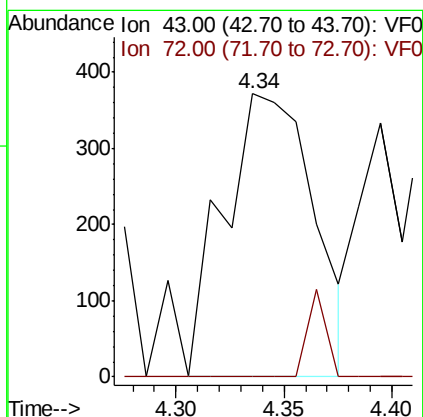
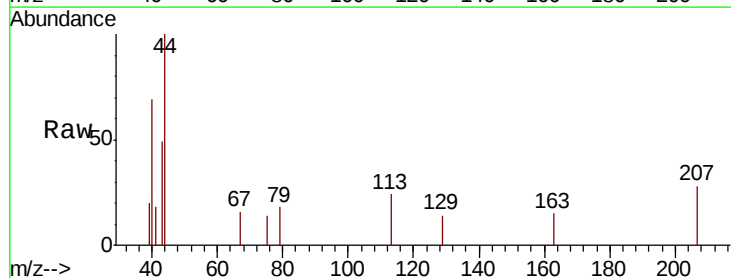
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-ARE

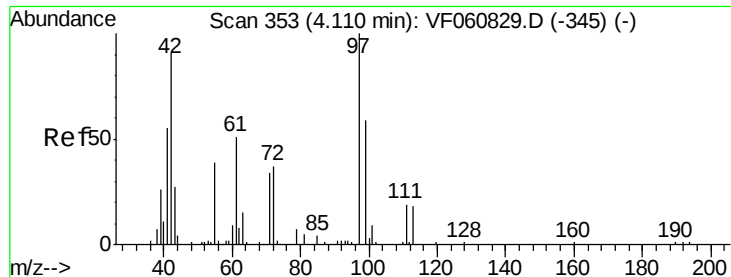
Tot Ion: 84 Resp: 10825
Ion Ratio Lower Upper
84 100
49 157.3 111.3 166.9
51 57.7 38.0 57.0#
86 65.1 49.8 74.8



#25
2-Butanone
Concen: 1.459 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.03 min
Lab File: VF060872.D
Acq: 29 Nov 2018 17:47

Tgt Ion: 43 Resp: 1075
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#





#29

Tetrahydrofuran

Concen: 1.524 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

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

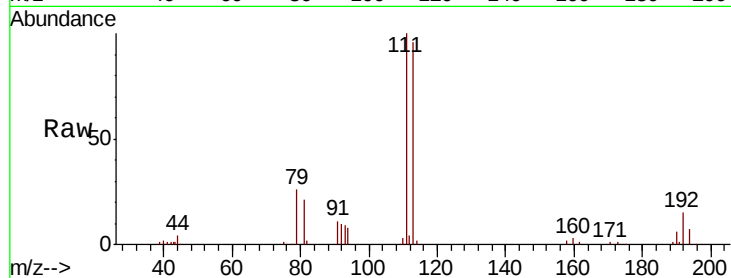
Tot Ion: 42 Resp: 476

Ion Ratio Lower Upper

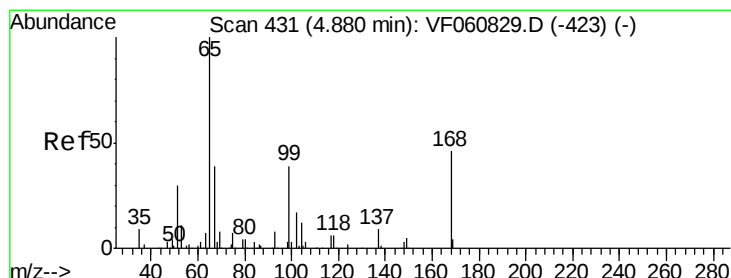
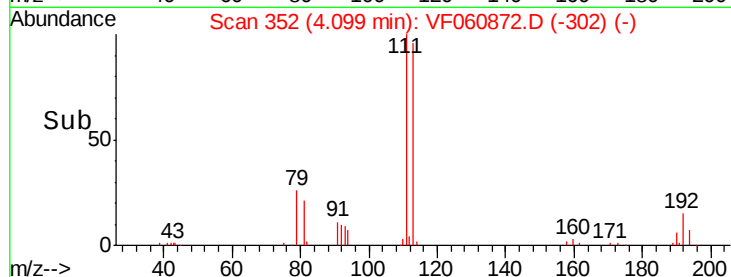
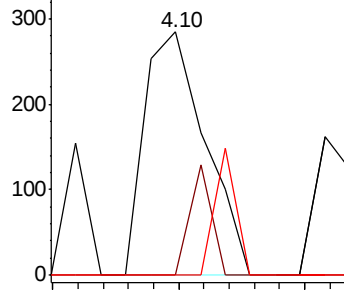
42 100

72 16.0 31.9 47.9#

71 18.5 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: 54.616 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060872.D

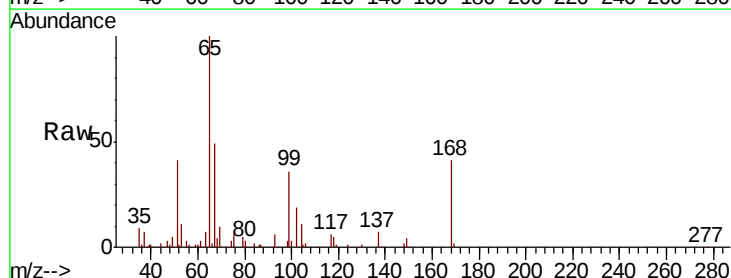
Acq: 29 Nov 2018 17:47

Tgt Ion: 65 Resp: 126145

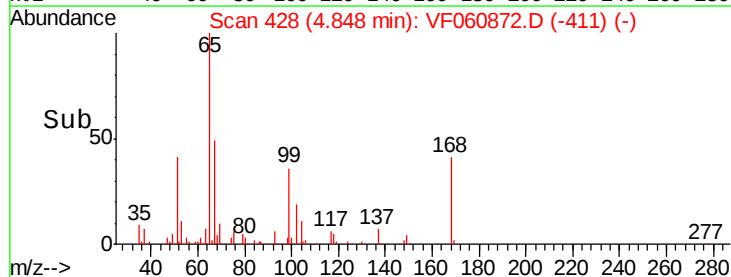
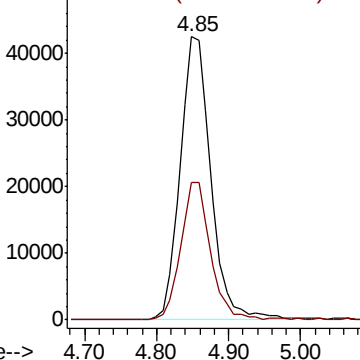
Ion Ratio Lower Upper

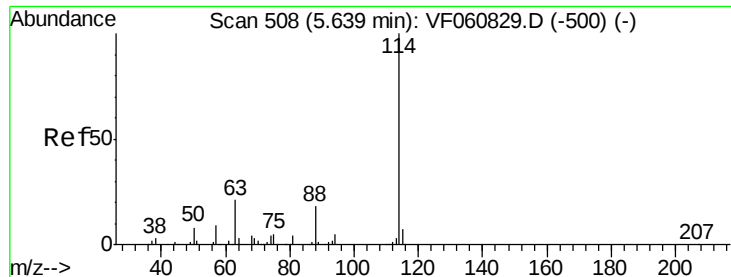
65 100

67 48.7 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: 5.61 min Scan# 505

Delta R.T. -0.03 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-ARE

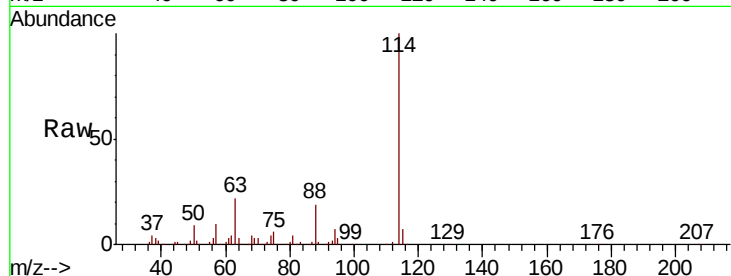
Tot Ion:114 Resp: 337920

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.6

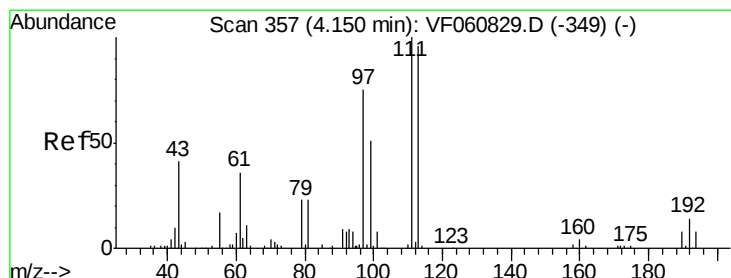
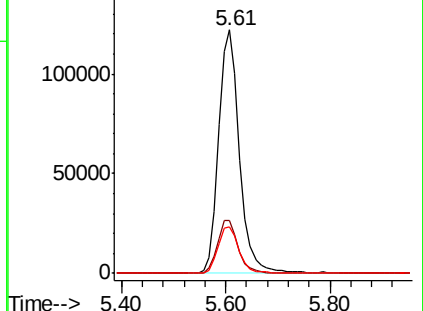
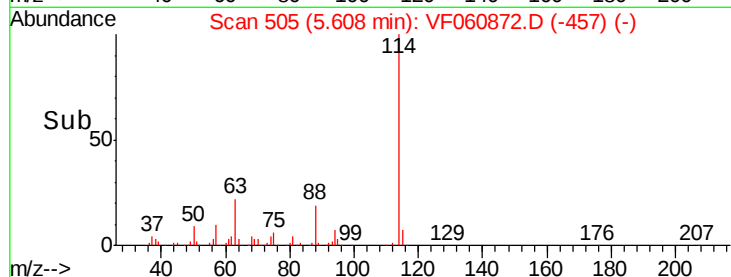
88 19.3 0.0 36.6



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: 53.124 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

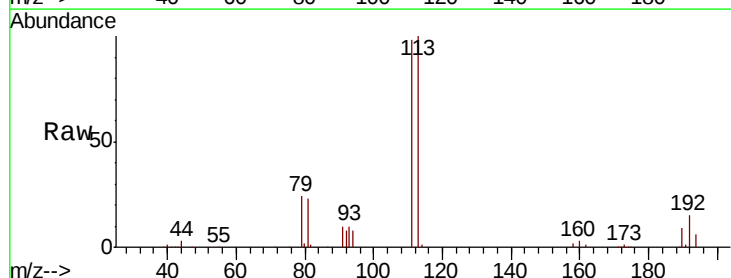
Tgt Ion:113 Resp: 142414

Ion Ratio Lower Upper

113 100

111 98.4 83.0 124.6

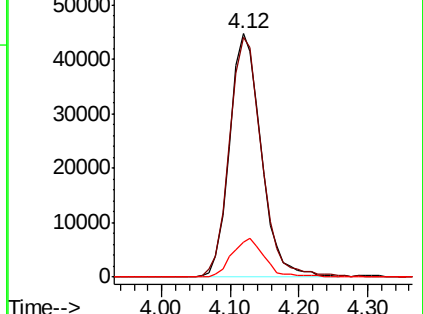
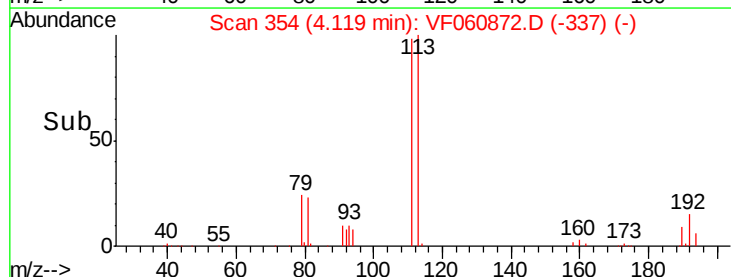
192 14.6 12.3 18.5

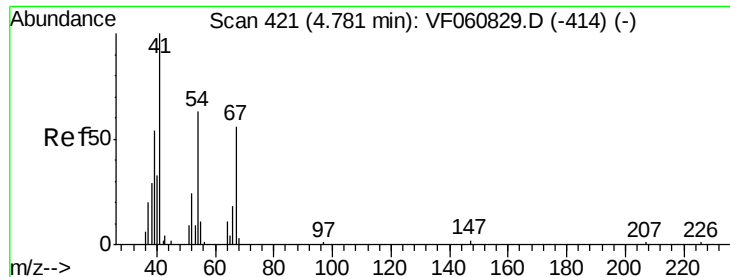


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.78 min Scan# 421

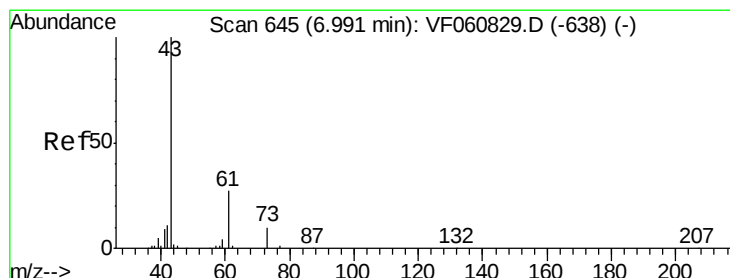
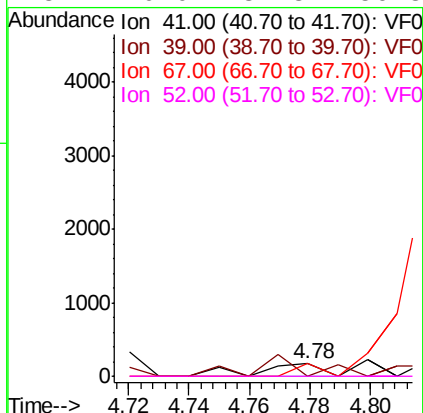
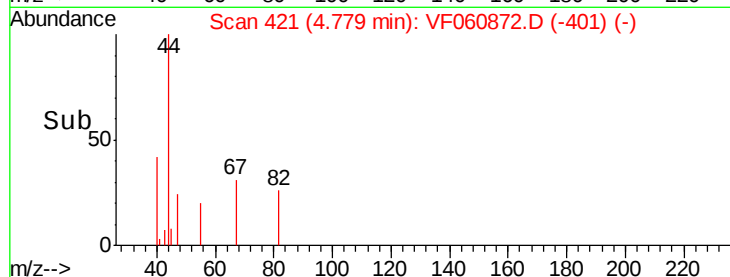
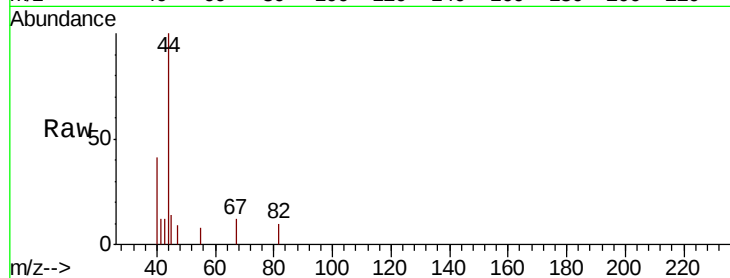
Delta R.T. -0.00 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

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Tot Ion:	41	Resp:	257
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	100.6	43.8	65.6#
52	0.0	37.8	56.8#



#43

Isopropyl Acetate

Concen: Below Cal

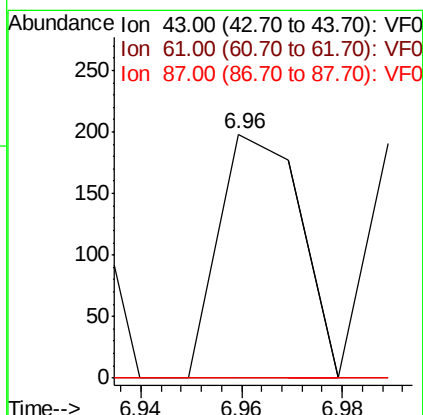
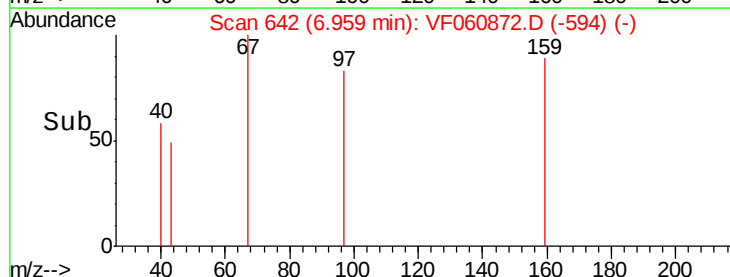
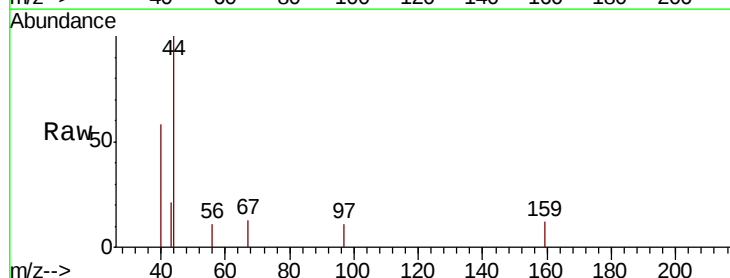
RT: 6.96 min Scan# 642

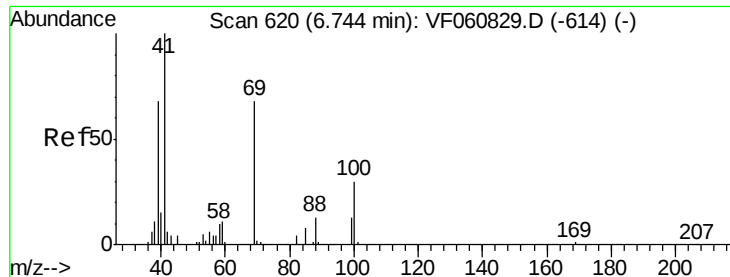
Delta R.T. -0.03 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

Tgt Ion:	43	Resp:	222
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

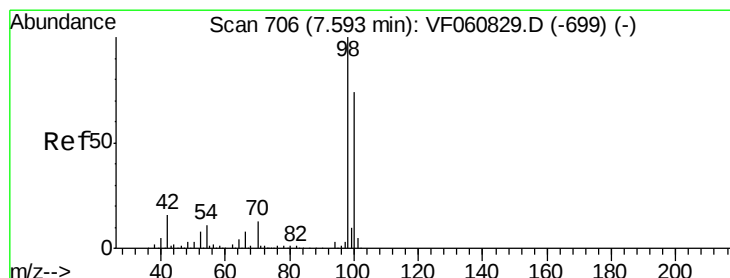
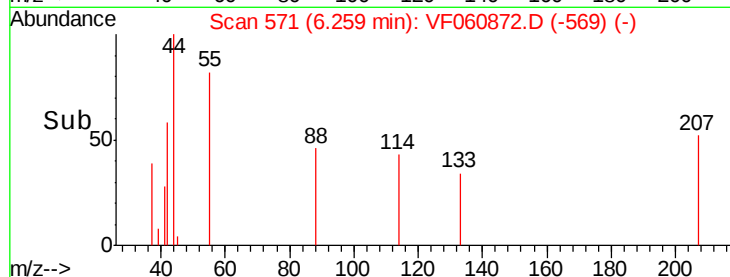
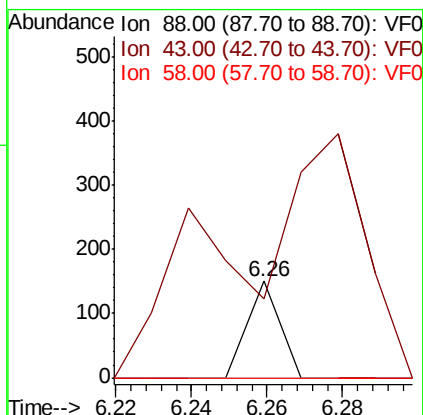
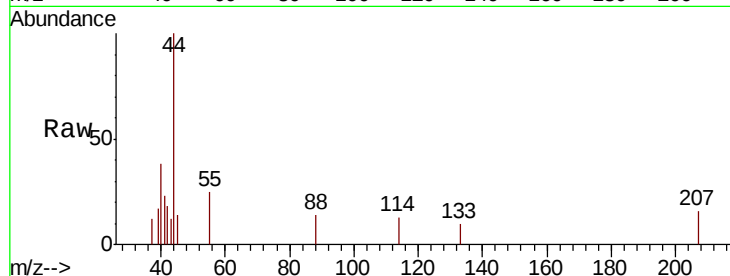




#49
1,4-Dioxane
Concen: 8.820 ug/l
RT: 6.26 min Scan# 571
Delta R.T. -0.49 min
Lab File: VF060872.D
Acq: 29 Nov 2018 17:47

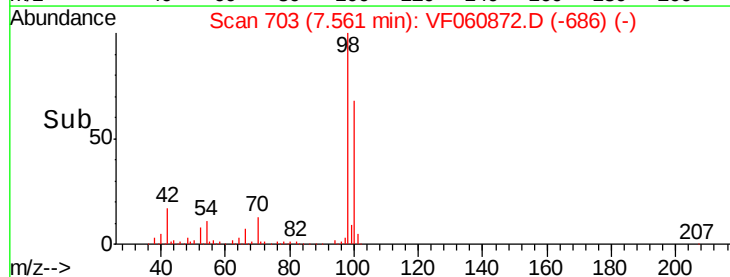
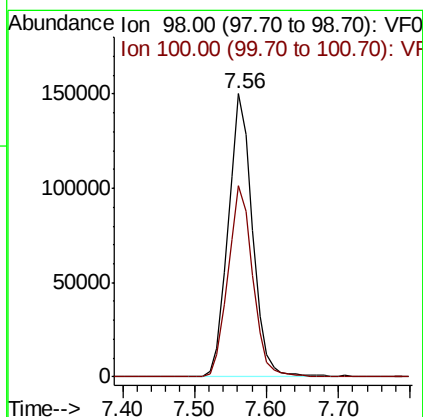
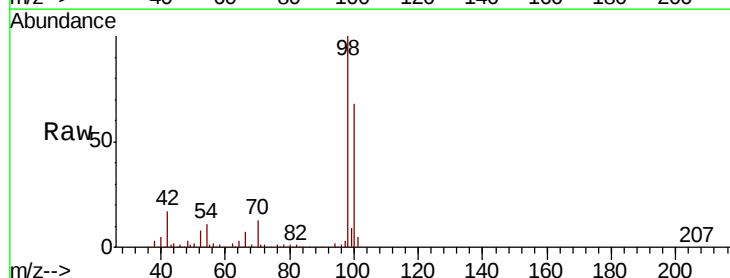
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-ARE

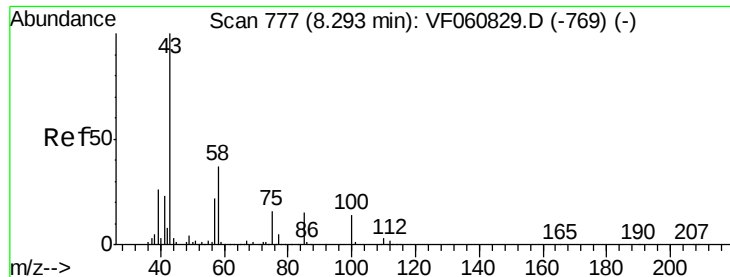
Tot Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 81.3 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 44.644 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF060872.D
Acq: 29 Nov 2018 17:47

Tgt Ion: 98 Resp: 352550
Ion Ratio Lower Upper
98 100
100 67.7 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.385 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

Instrument :

MSVOA_F

ClientSampleId :

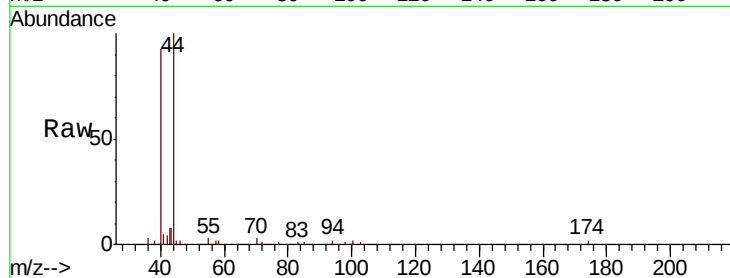
OR-03-112918-ARE

Tot Ion: 43 Resp: 1946

Ion Ratio Lower Upper

43 100

58 10.5 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1500

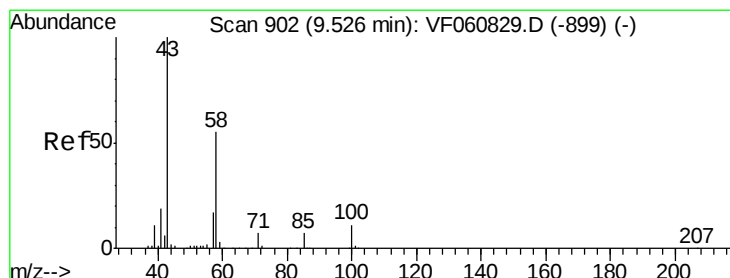
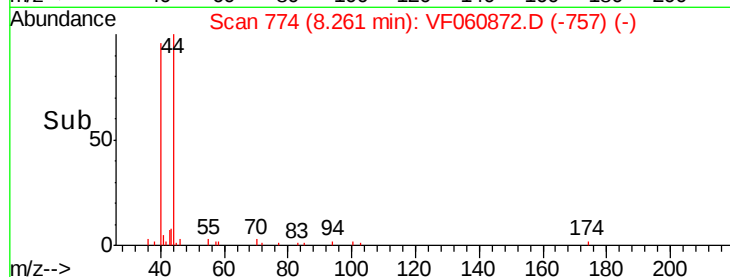
1000

500

0

8.20 8.25 8.30 8.35

Time-->



#59

2-Hexanone

Concen: 1.580 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF060872.D

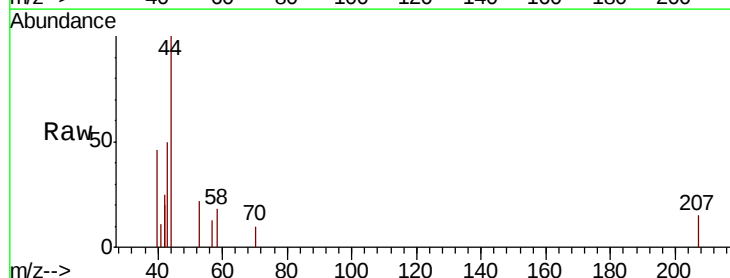
Acq: 29 Nov 2018 17:47

Tgt Ion: 43 Resp: 1557

Ion Ratio Lower Upper

43 100

58 35.2 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.50

600

500

400

300

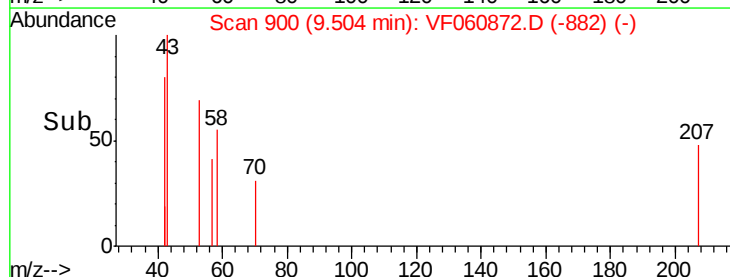
200

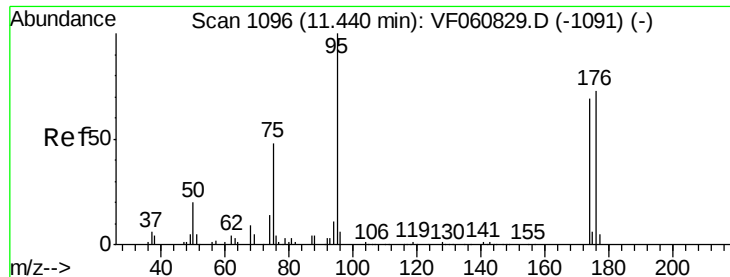
100

0

9.45 9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 47.425 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-ARE

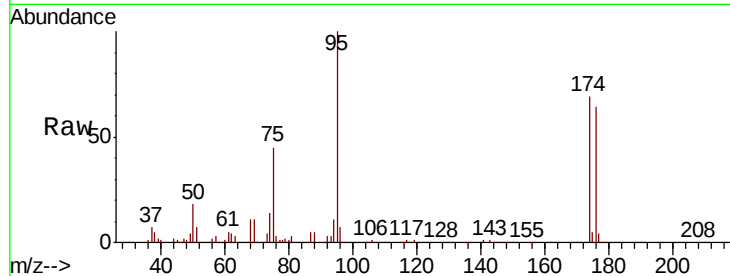
Tot Ion: 95 Resp: 170208

Ion Ratio Lower Upper

95 100

174 68.7 0.0 138.2

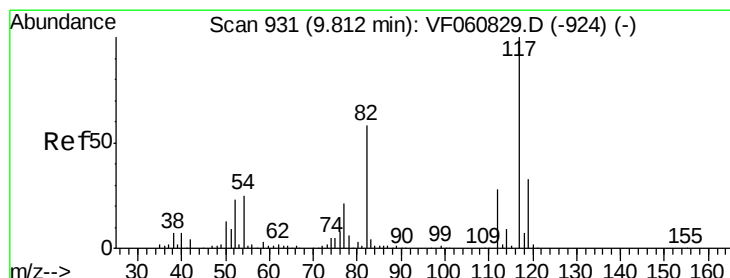
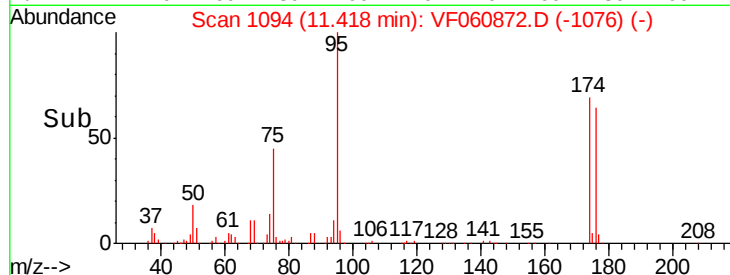
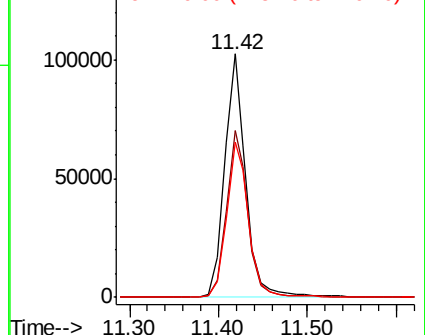
176 63.9 0.0 146.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

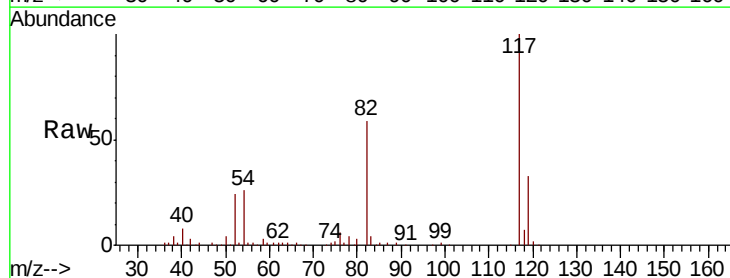
Tgt Ion: 117 Resp: 301902

Ion Ratio Lower Upper

117 100

82 59.4 46.6 69.8

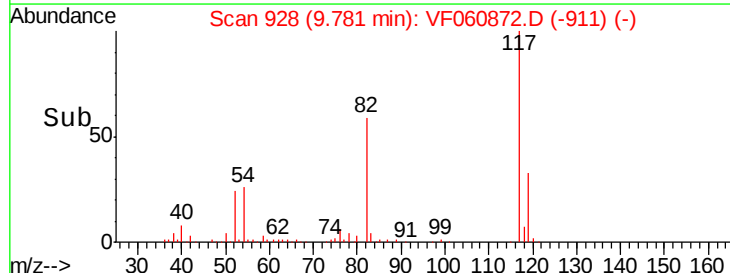
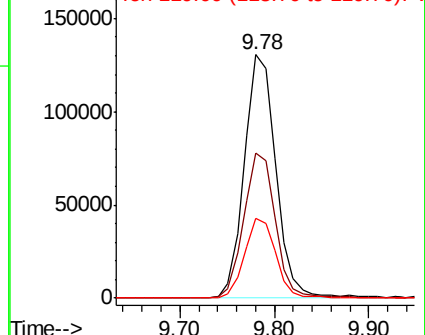
119 32.6 26.4 39.6

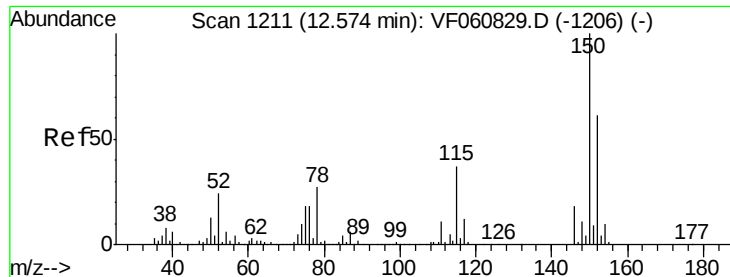


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-ARE

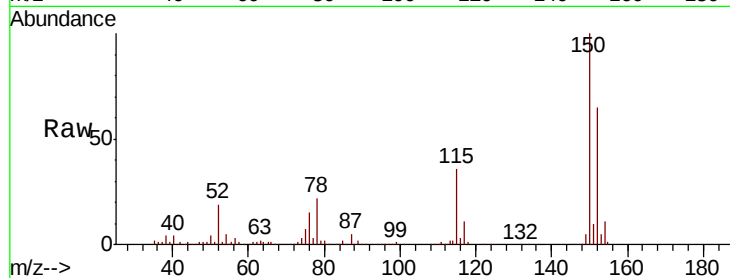
Tot Ion:152 Resp: 149710

Ion	Ratio	Lower	Upper
152	100		
115	56.1	30.1	90.5
150	154.7	0.0	327.6

152 100

115 56.1 30.1 90.5

150 154.7 0.0 327.6

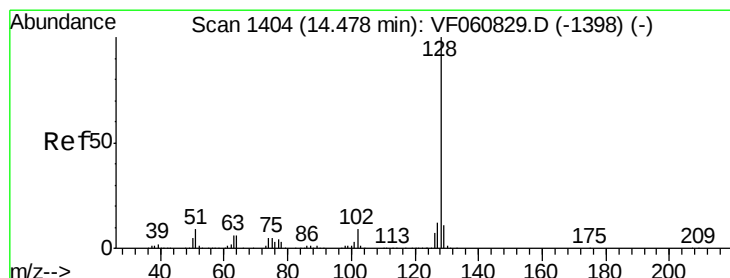
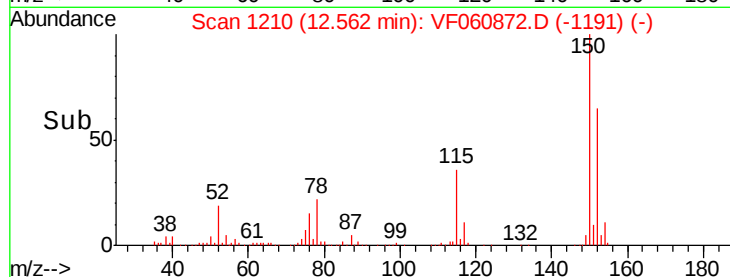
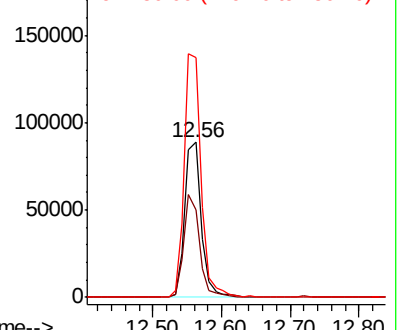


Abundance

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



#95

Naphthalene

Concen: 12.307 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF060872.D

Acq: 29 Nov 2018 17:47

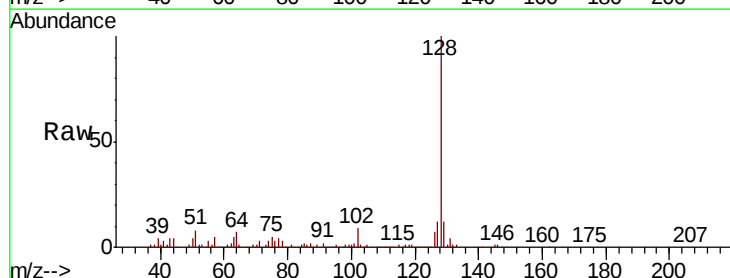
Tgt Ion:128 Resp: 94694

Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.9	14.9
129	11.9	9.1	13.7

128 100

127 11.9 9.9 14.9

129 11.9 9.1 13.7



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

