

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112718\
 Data File : VF060839.D
 Acq On : 27 Nov 2018 15:29
 Operator : VA/AP
 Sample : J5996-12RE
 Misc : 5.74g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 AOC1-05-A

Quant Time: Nov 28 03:09:15 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	234130	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	372700	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.81	117	375444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	206808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	123334	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	
35) Dibromofluoromethane	4.15	113	136553	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	
50) Toluene-d8	7.58	98	366892	42.12	ug/l	-0.01
Spiked Amount			Recovery	=	84.24%	
62) 4-Bromofluorobenzene	11.44	95	188727	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	

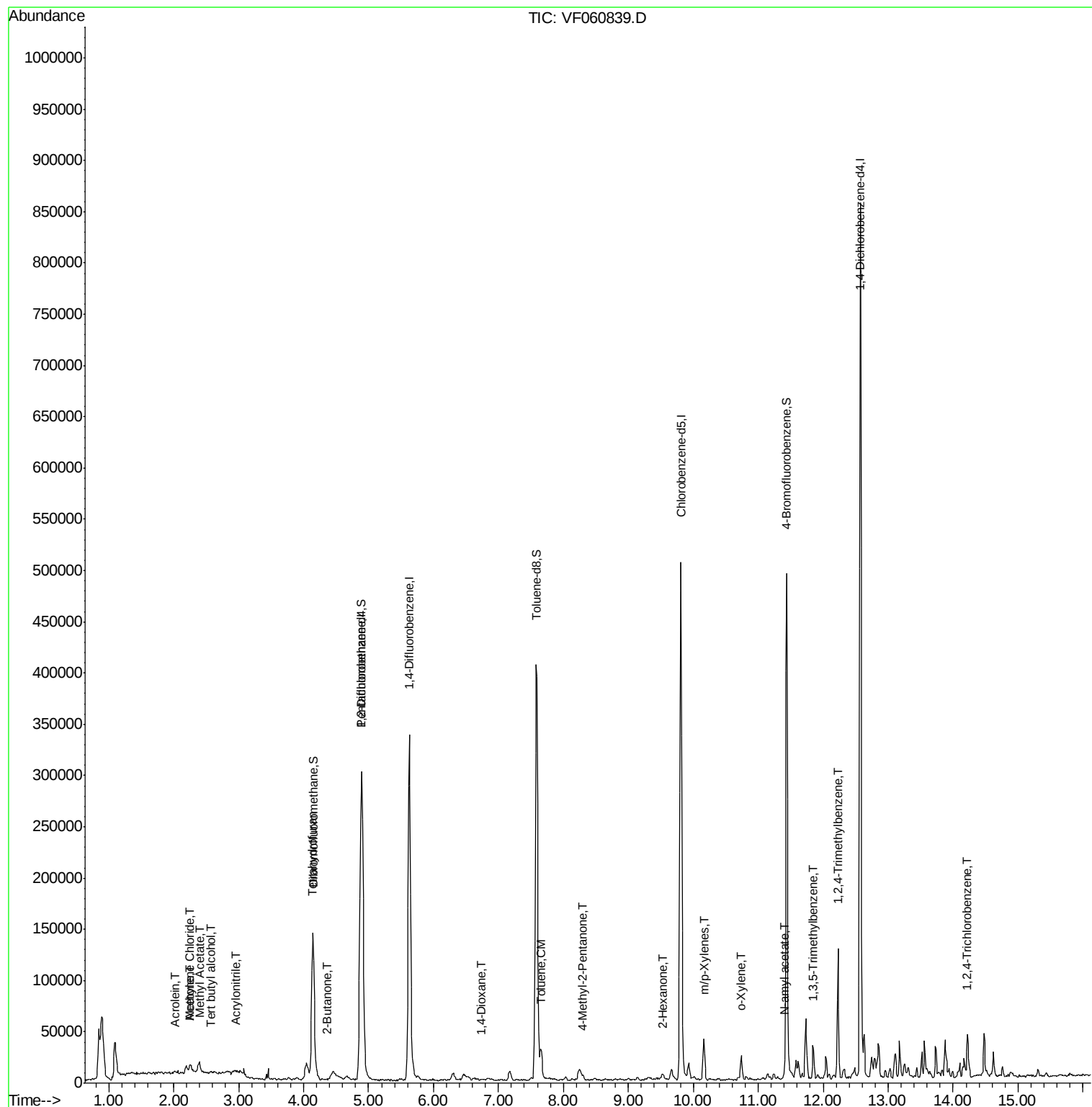
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	232	2.052	ug/l #	62
13) Acrolein	2.04	56	1554	14.507	ug/l #	26
15) Acrylonitrile	2.95	53	782	3.085	ug/l #	47
16) Acetone	2.25	43	3922	7.711	ug/l #	87
18) Methyl Acetate	2.39	43	8673	8.804	ug/l #	71
20) Methylene Chloride	2.25	84	4860	2.605	ug/l #	90
25) 2-Butanone	4.37	43	3162	3.594	ug/l #	57
29) Tetrahydrofuran	4.13	42	1128	3.025	ug/l #	37
41) Methacrylonitrile	4.80	41	274	Below Cal	#	53
43) Isopropyl Acetate	6.99	43	1251	Below Cal	#	49
49) 1,4-Dioxane	6.74	88	73	6.560	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	4771	3.080	ug/l	97
52) Toluene	7.65	92	13857	2.160	ug/l	100
59) 2-Hexanone	9.52	43	3860	3.552	ug/l	83
68) m/p-Xylenes	10.16	106	13423	2.745	ug/l	93
69) o-Xylene	10.74	106	6796	1.260	ug/l	68
74) N-amyl acetate	11.40	43	4673	1.238	ug/l #	88
80) 1,3,5-Trimethylbenzene	11.84	105	17278	1.302	ug/l	96
84) 1,2,4-Trimethylbenzene	12.23	105	61921	4.676	ug/l	98
93) 1,2,4-Trichlorobenzene	14.22	180	8214	1.821	ug/l	98
95) Naphthalene	14.48	128	26828	Below Cal	#	96

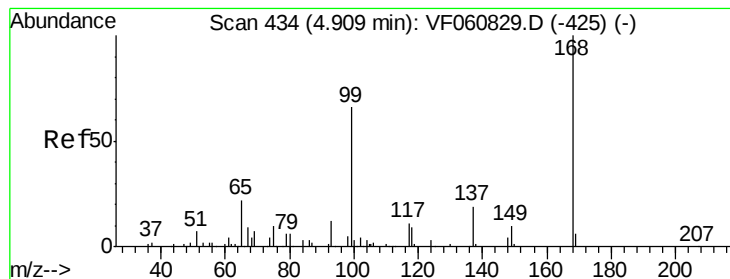
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112718\
Data File : VF060839.D
Acq On : 27 Nov 2018 15:29
Operator : VA/AP
Sample : J5996-12RE
Misc : 5.74g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
AOC1-05-A

Quant Time: Nov 28 03:09:15 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

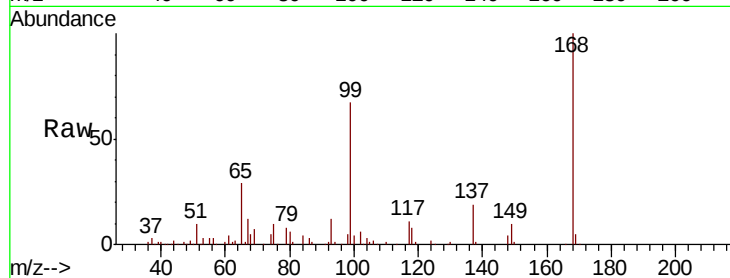
AOC1-05-A

Tot Ion:168 Resp: 234130

Ion Ratio Lower Upper

168 100

99 66.7 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

80000

60000

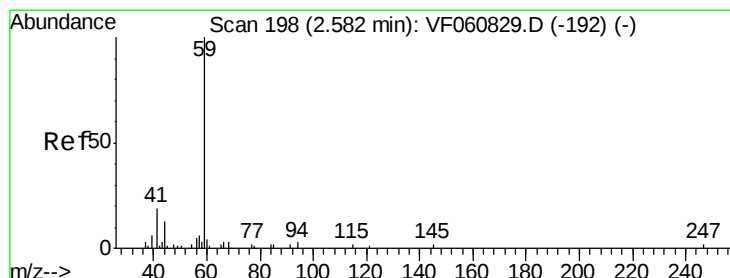
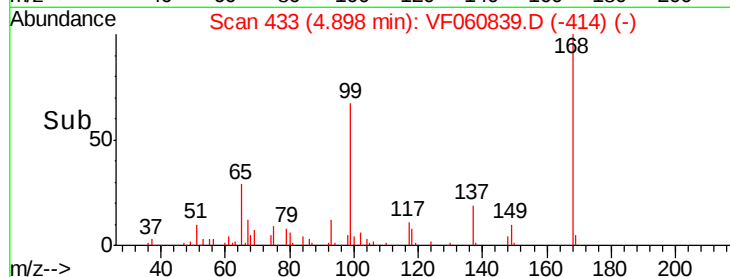
40000

20000

0

Time-->

4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 2.052 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060839.D

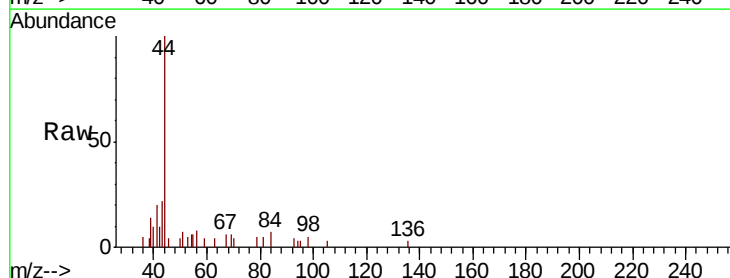
Acq: 27 Nov 2018 15:29

Tgt Ion: 59 Resp: 232

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

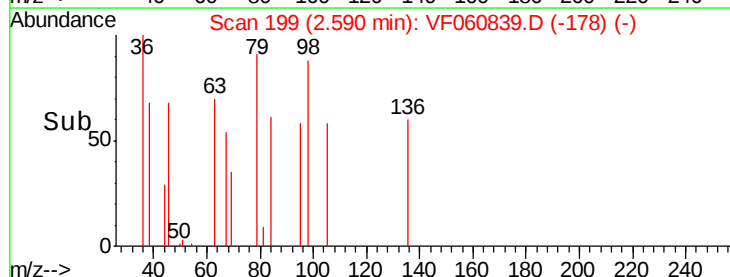
200

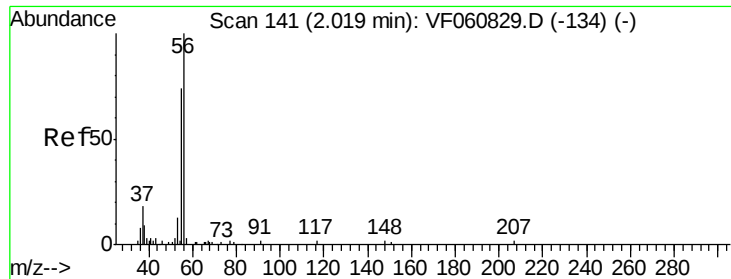
100

0

Time-->

2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 14.507 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.02 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampled :

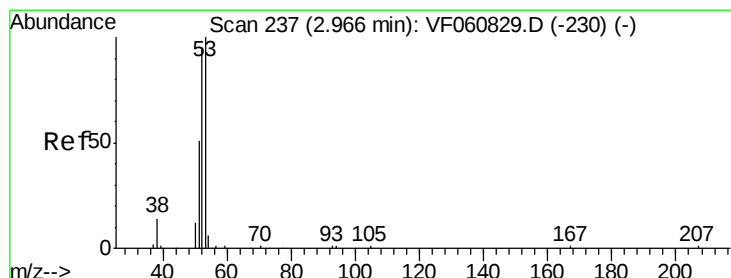
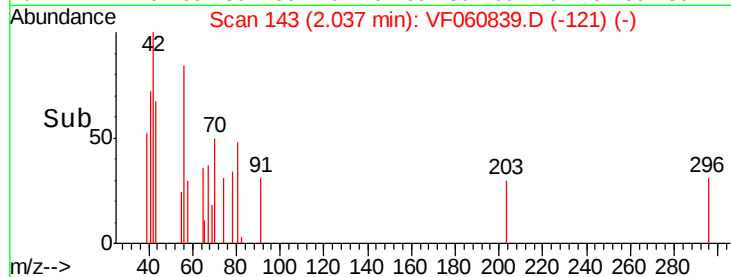
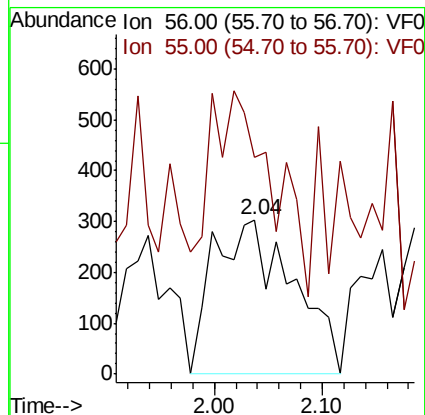
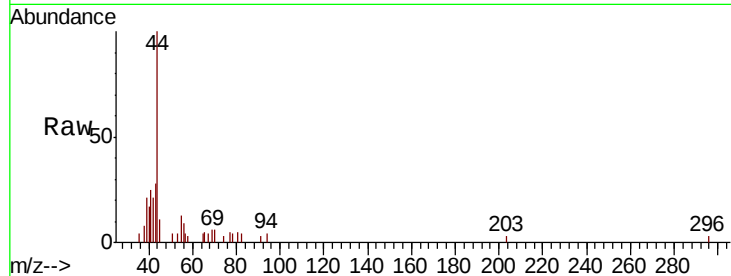
AOC1-05-A

Tot Ion: 56 Resp: 1554

Ion Ratio Lower Upper

56 100

55 140.1 61.2 91.8#



#15

Acrylonitrile

Concen: 3.085 ug/l

RT: 2.95 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

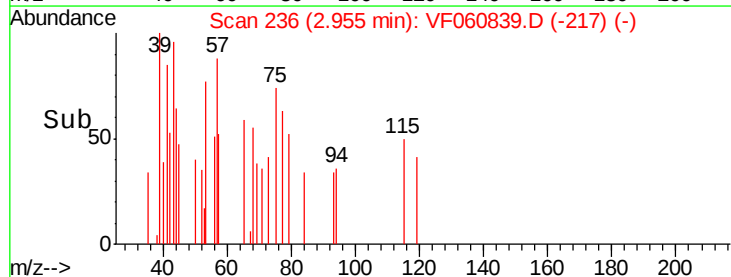
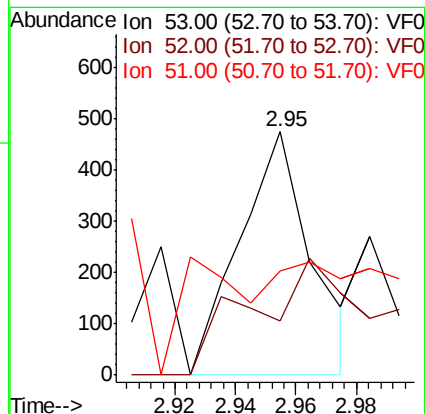
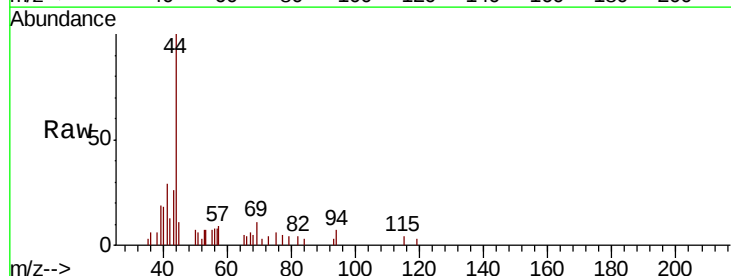
Tgt Ion: 53 Resp: 782

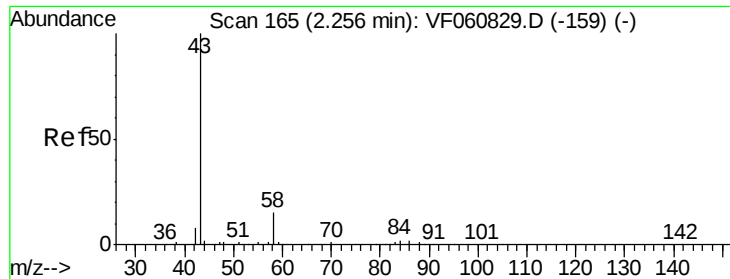
Ion Ratio Lower Upper

53 100

52 22.4 76.5 114.7#

51 42.6 40.7 61.1





#16

Acetone

Concen: 7.711 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

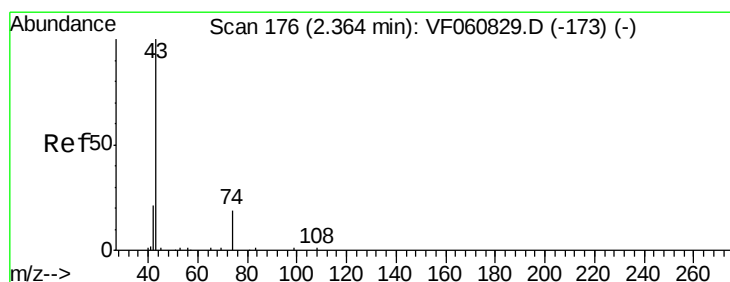
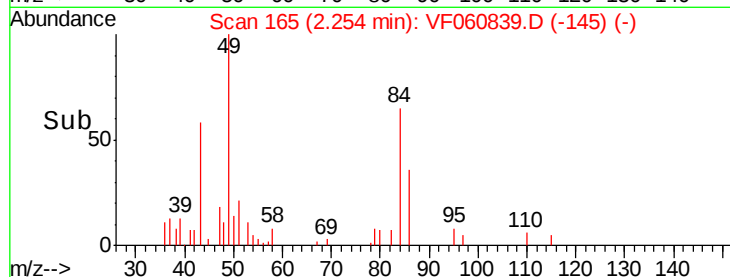
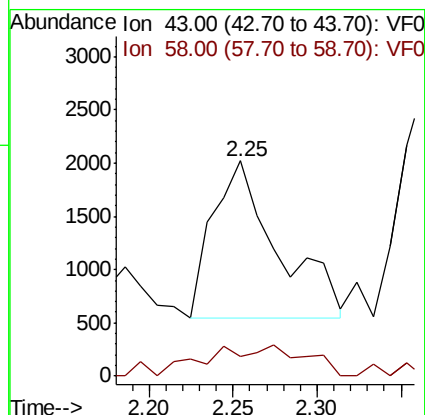
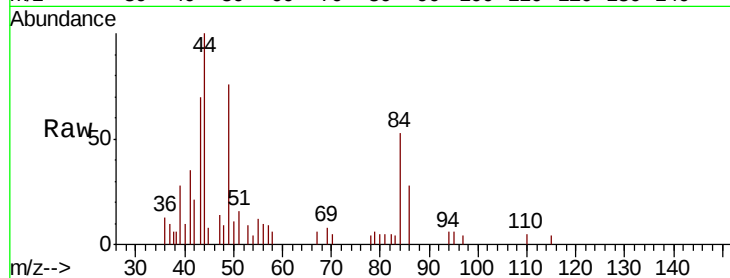
AOC1-05-A

Tot Ion: 43 Resp: 3922

Ion Ratio Lower Upper

43 100

58 9.1 11.4 17.2#



#18

Methyl Acetate

Concen: 8.804 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.03 min

Lab File: VF060839.D

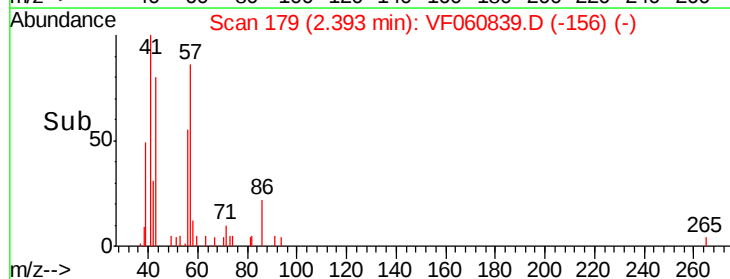
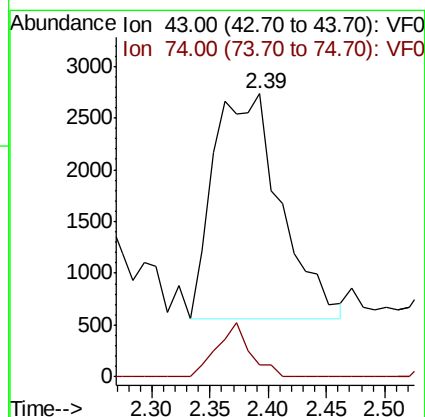
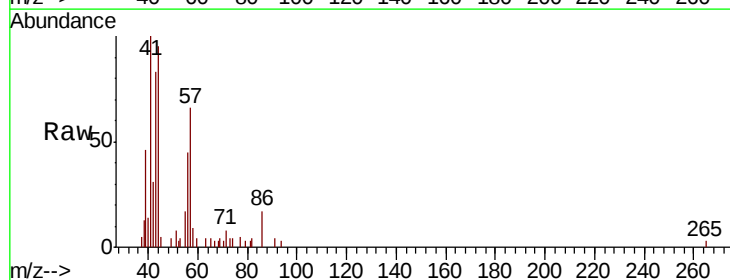
Acq: 27 Nov 2018 15:29

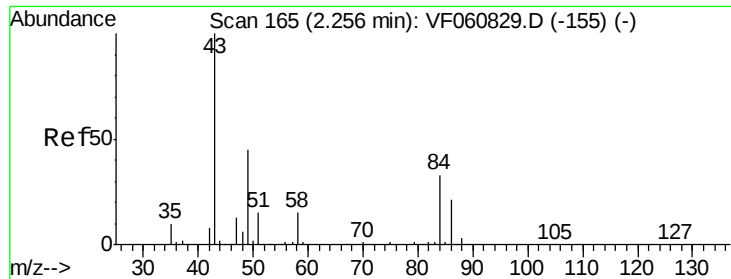
Tgt Ion: 43 Resp: 8673

Ion Ratio Lower Upper

43 100

74 4.2 13.3 19.9#





#20

Methylene Chloride

Concen: 2.605 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

AOC1-05-A

Tot Ion: 84 Resp: 4860

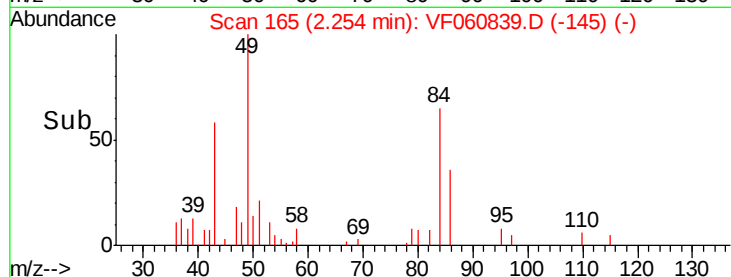
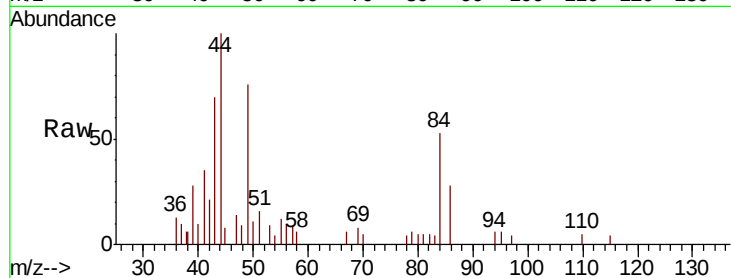
Ion Ratio Lower Upper

84 100

49 142.8 111.3 166.9

51 30.3 38.0 57.0#

86 51.9 49.8 74.8

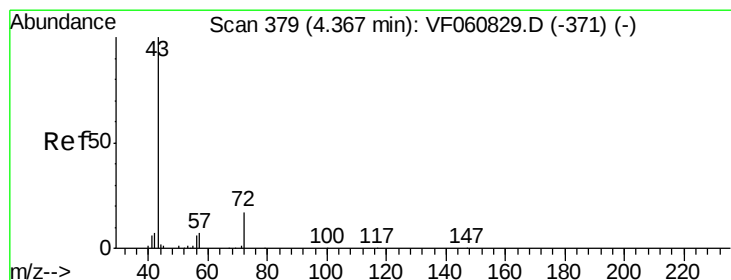
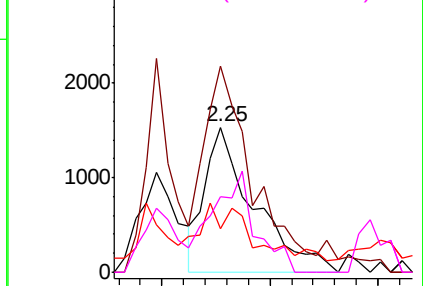


Abundance Ion 84.00 (83.70 to 84.70): VF0

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



#25

2-Butanone

Concen: 3.594 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060839.D

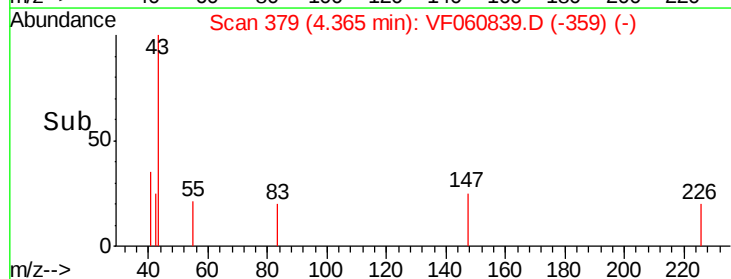
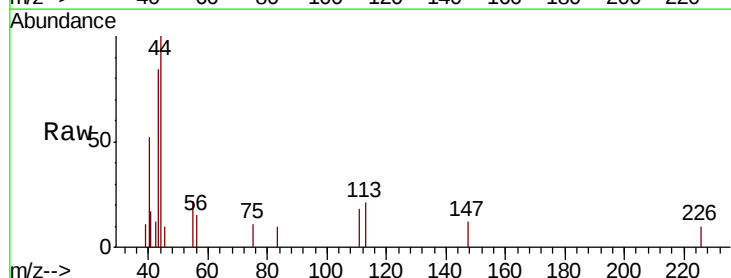
Acq: 27 Nov 2018 15:29

Tgt Ion: 43 Resp: 3162

Ion Ratio Lower Upper

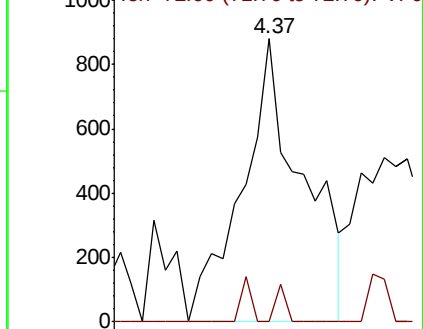
43 100

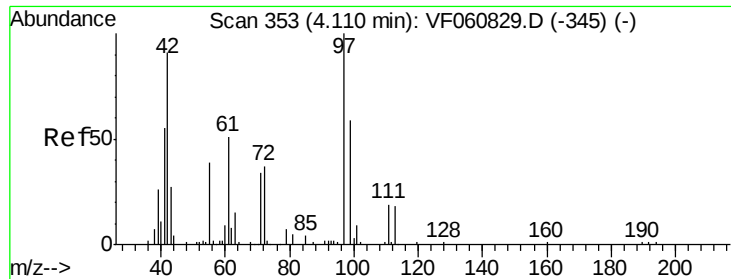
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.025 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

AOC1-05-A

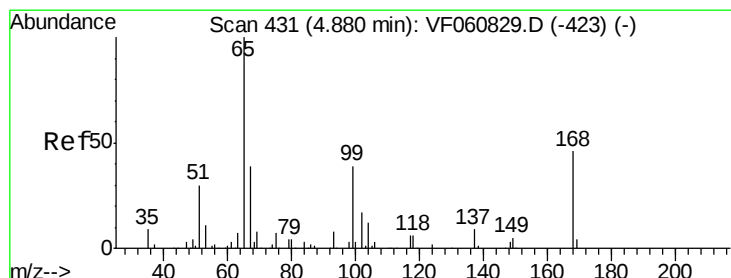
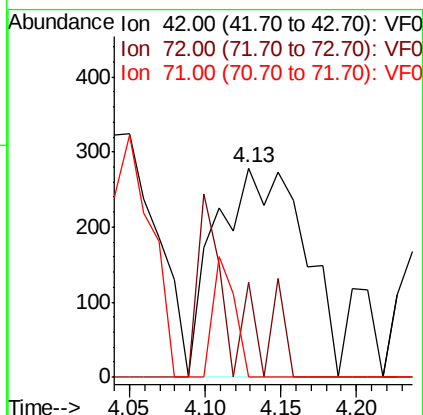
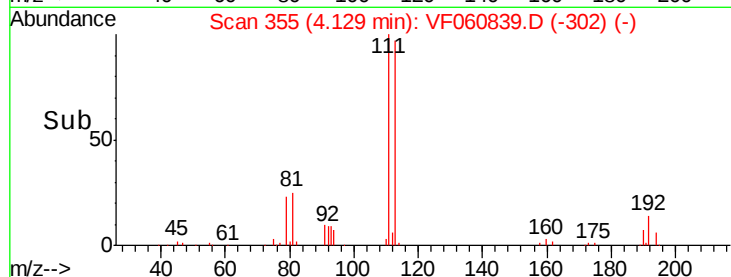
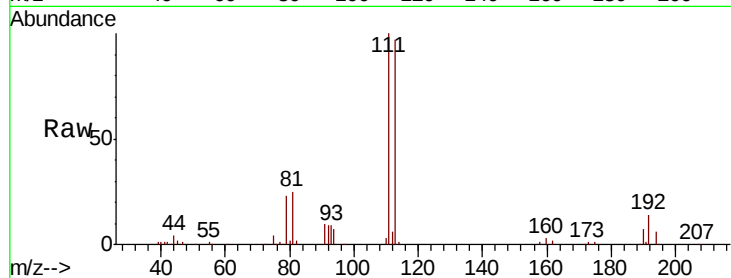
Tot Ion: 42 Resp: 1128

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 28.7 43.1#



#33

1,2-Dichloroethane-d4

Concen: 44.717 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF060839.D

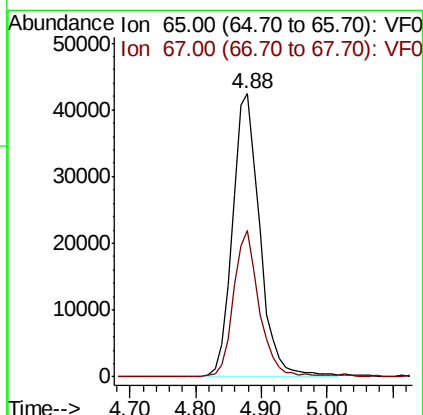
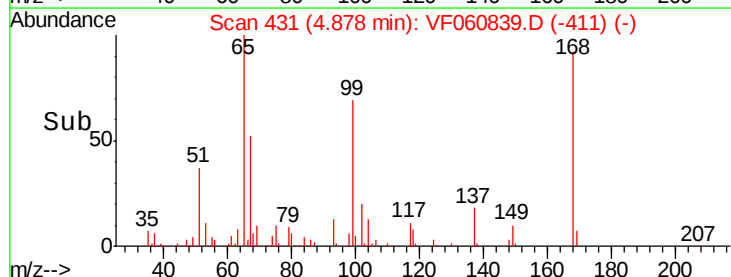
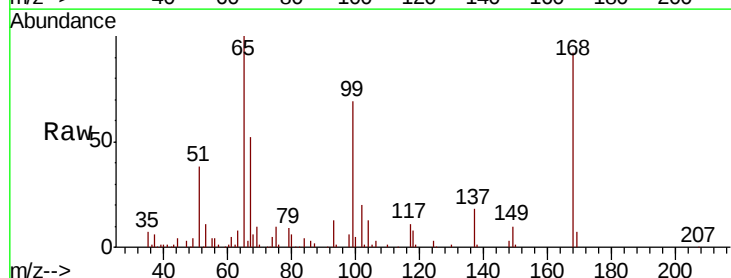
Acq: 27 Nov 2018 15:29

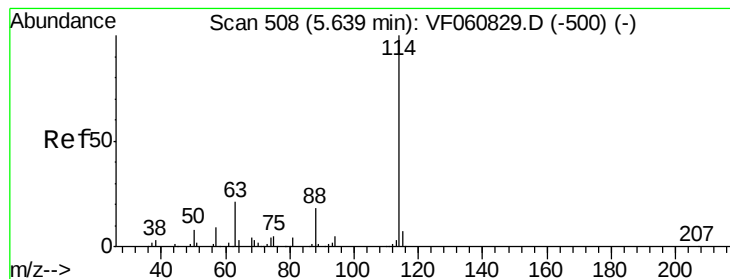
Tgt Ion: 65 Resp: 123334

Ion Ratio Lower Upper

65 100

67 52.0 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.01 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

AOC1-05-A

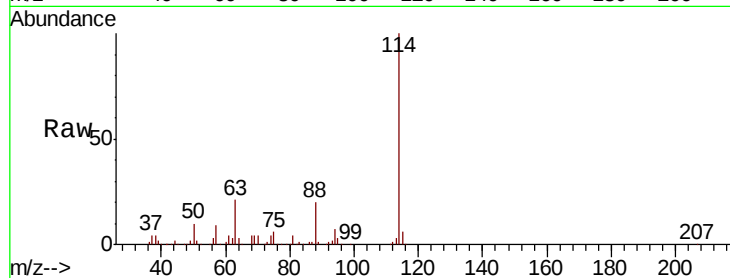
Tot Ion:114 Resp: 372700

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.6

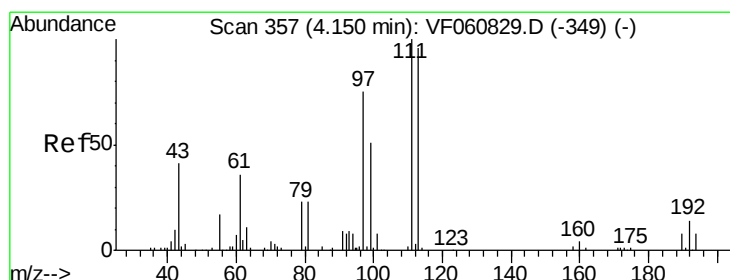
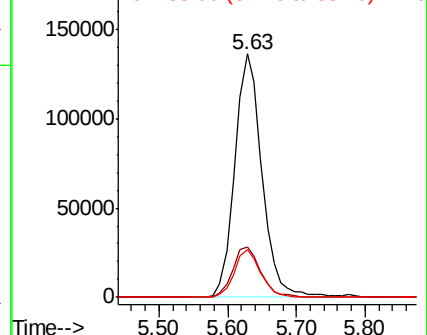
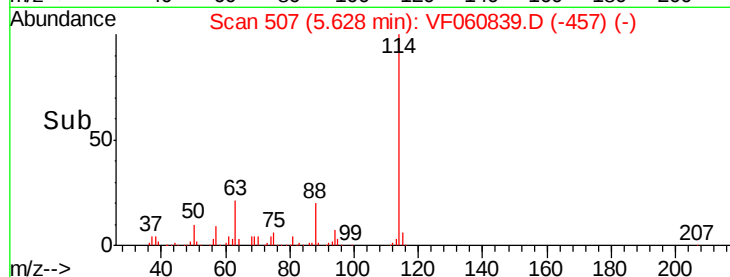
88 19.8 0.0 36.6



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: 46.184 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

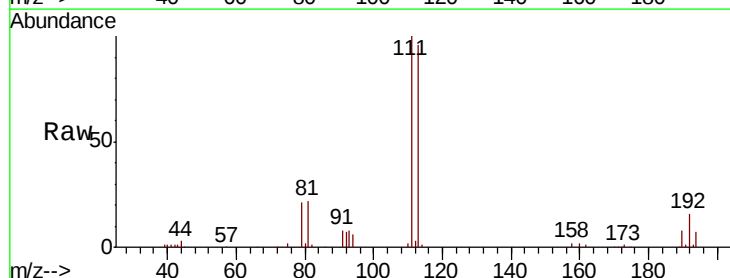
Tgt Ion:113 Resp: 136553

Ion Ratio Lower Upper

113 100

111 103.9 83.0 124.6

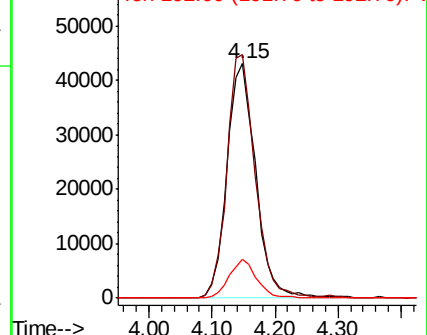
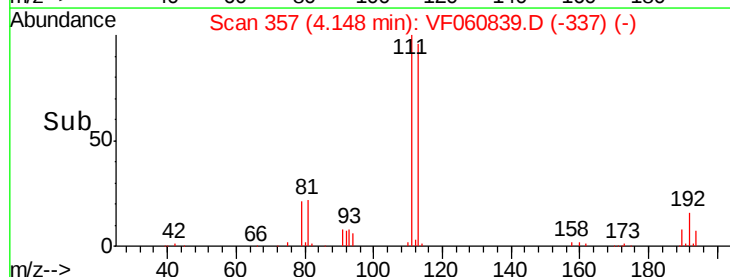
192 16.7 12.3 18.5

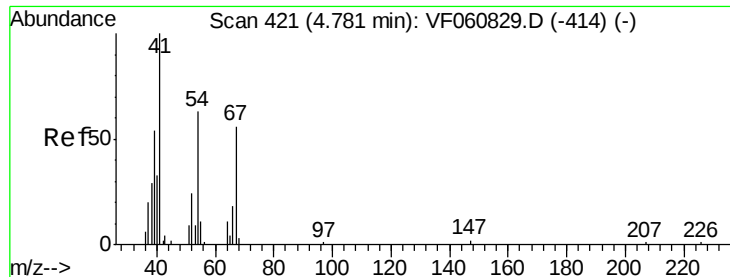


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

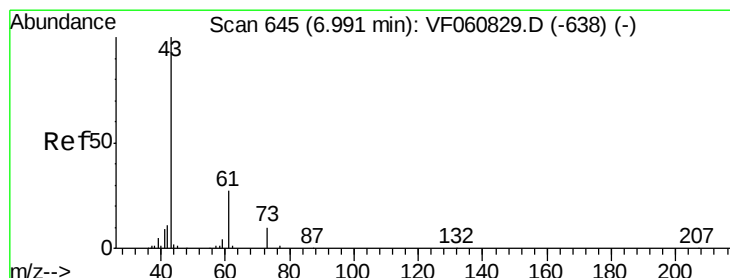
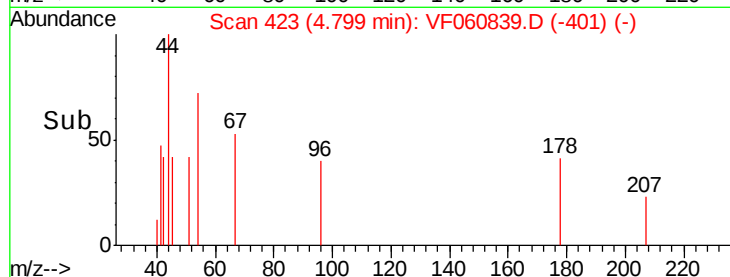
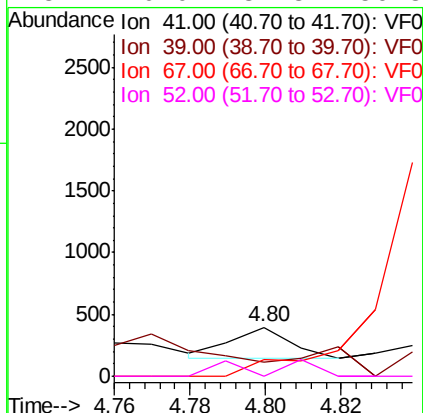
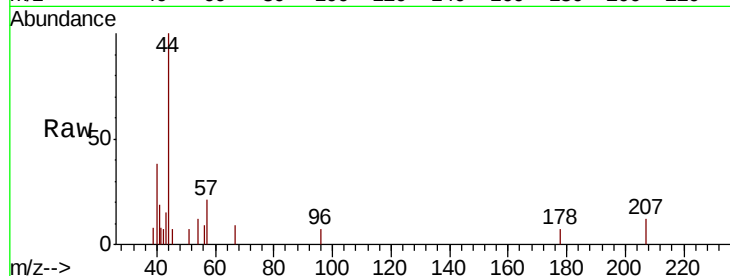




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.80 min Scan# 423
Delta R.T. 0.02 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

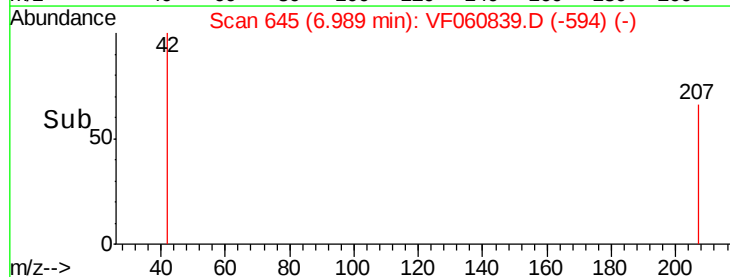
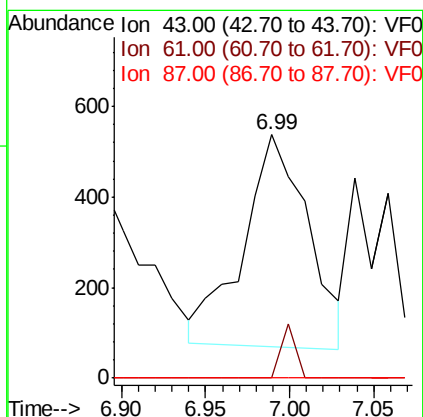
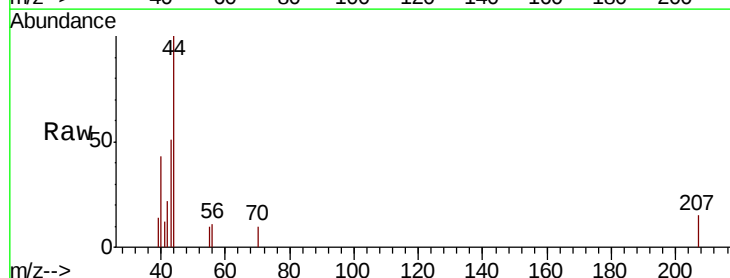
Instrument :
MSVOA_F
ClientSampleId :
AOC1-05-A

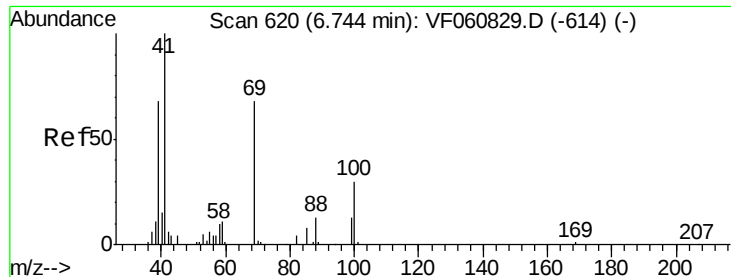
Tot Ion: 41 Resp: 274
Ion Ratio Lower Upper
41 100
39 29.8 53.0 79.6#
67 33.8 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.99 min Scan# 645
Delta R.T. -0.00 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Tgt Ion: 43 Resp: 1251
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: 6.560 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.00 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

AOC1-05-A

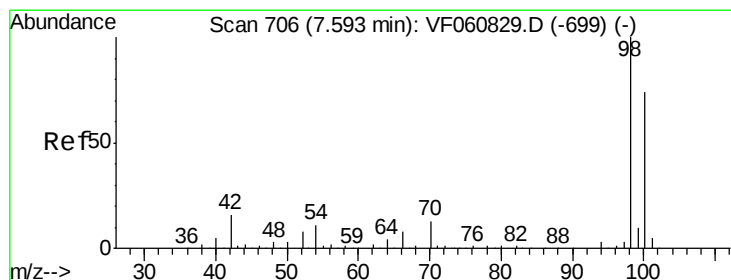
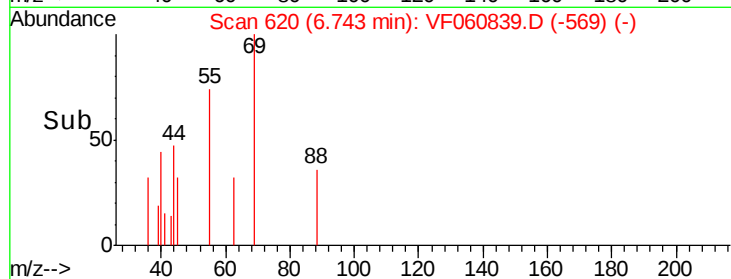
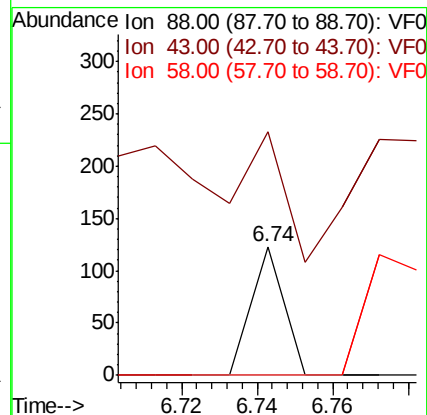
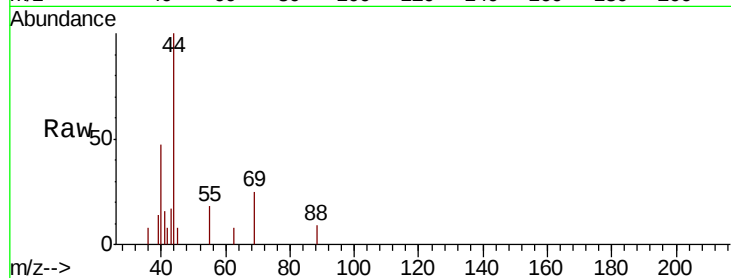
Tot Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 189.4 42.0 63.0#

58 0.0 61.8 92.8#



#50

Toluene-d8

Concen: 42.125 ug/l

RT: 7.58 min Scan# 705

Delta R.T. -0.01 min

Lab File: VF060839.D

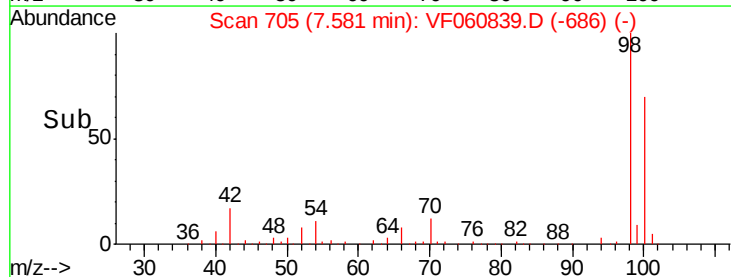
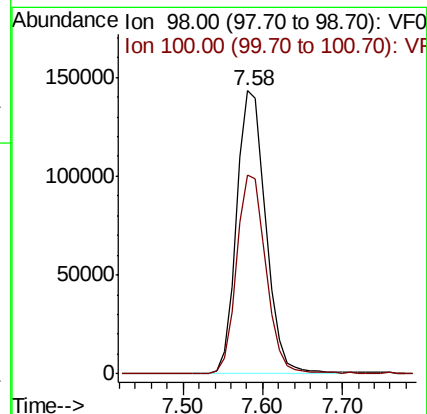
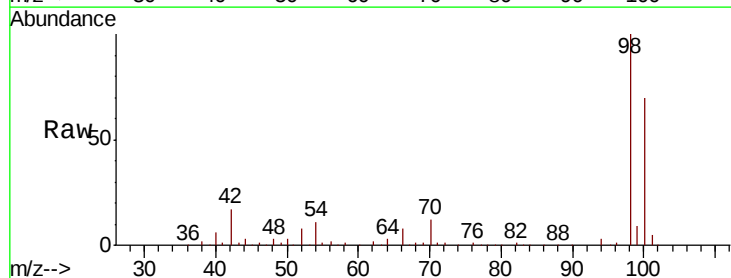
Acq: 27 Nov 2018 15:29

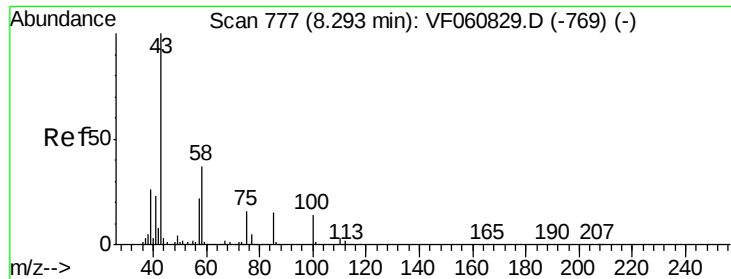
Tgt Ion: 98 Resp: 366892

Ion Ratio Lower Upper

98 100

100 70.1 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 3.080 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

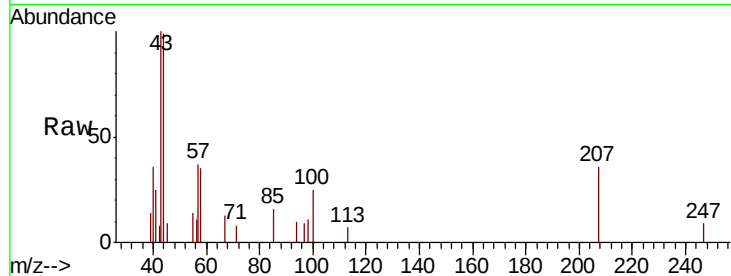
AOC1-05-A

Tot Ion: 43 Resp: 4771

Ion Ratio Lower Upper

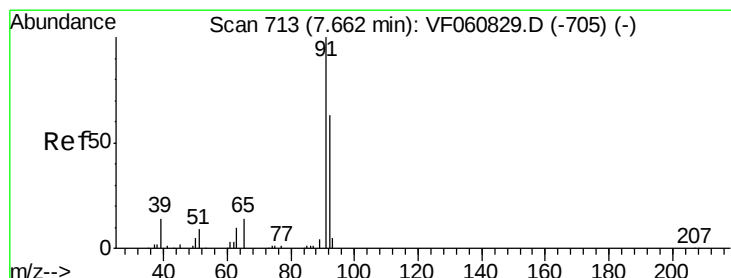
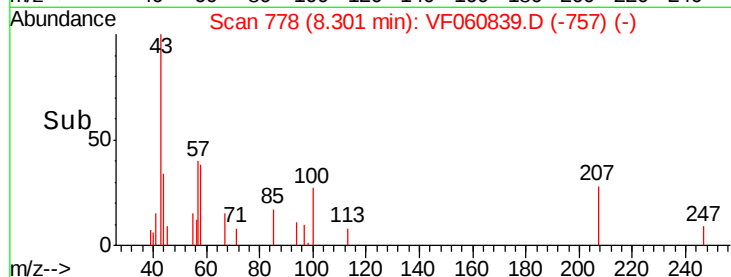
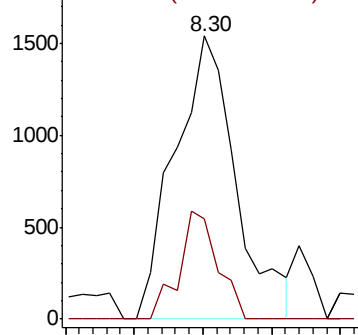
43 100

58 35.5 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.160 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF060839.D

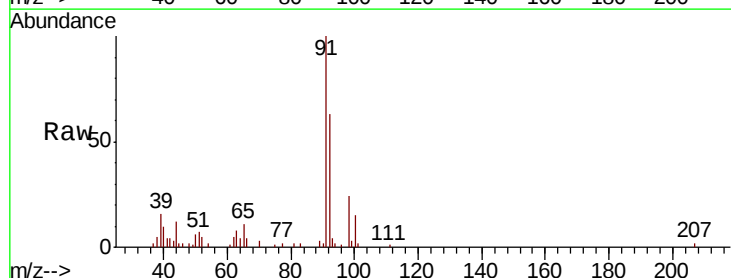
Acq: 27 Nov 2018 15:29

Tgt Ion: 92 Resp: 13857

Ion Ratio Lower Upper

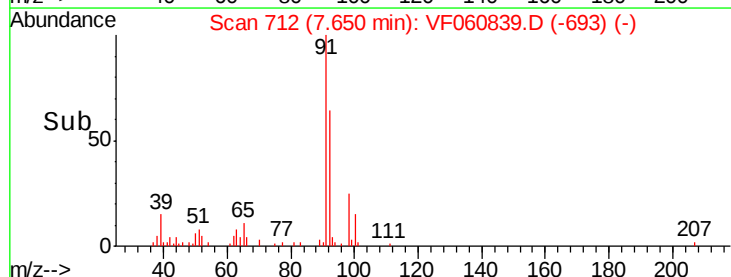
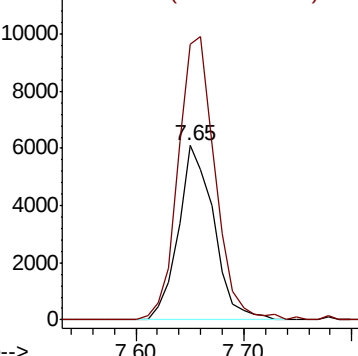
92 100

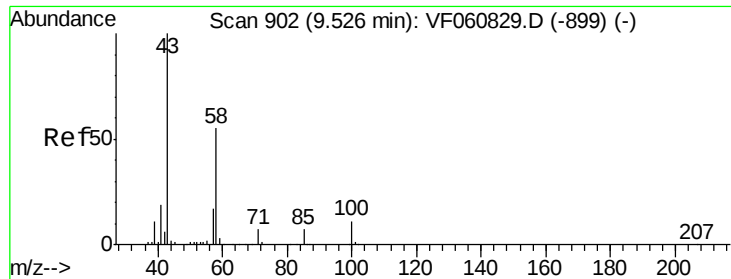
91 158.3 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

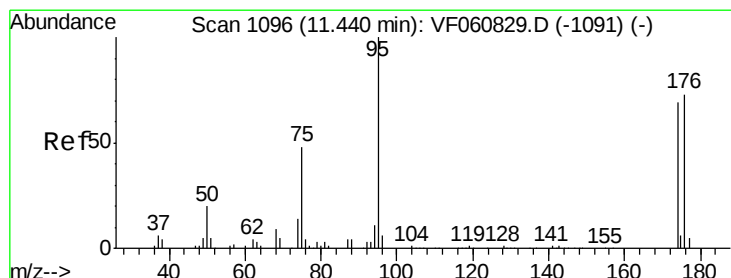
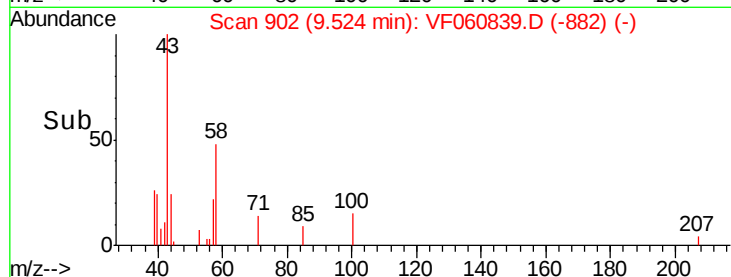
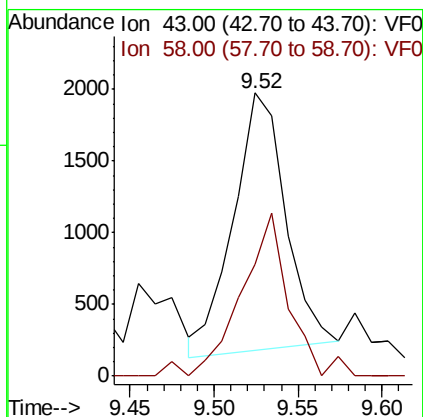
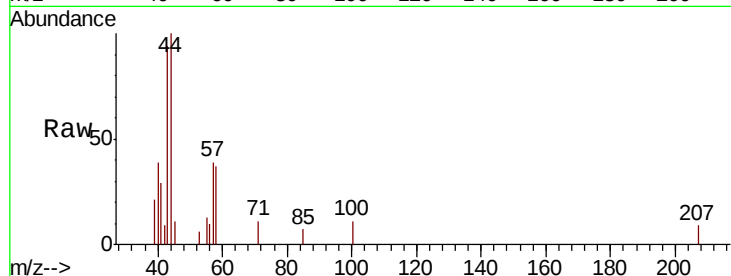




#59
2-Hexanone
Concen: 3.552 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

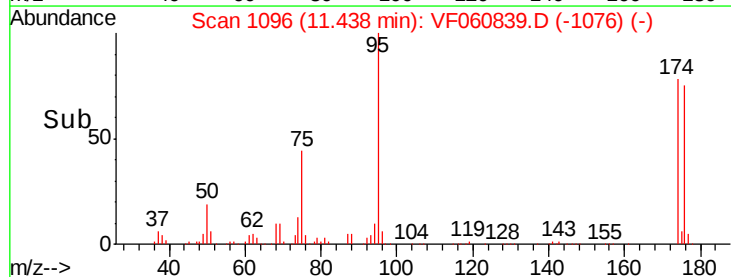
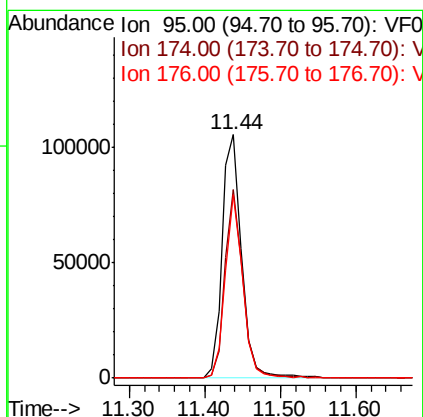
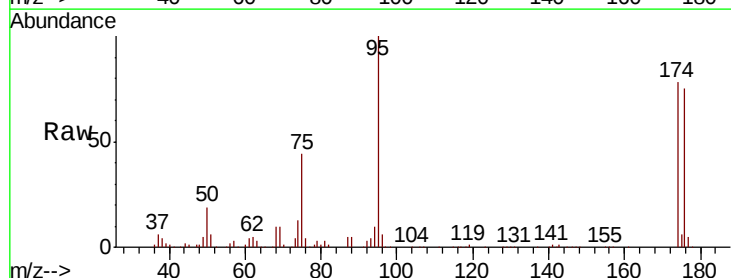
Instrument :
MSVOA_F
ClientSampleId :
AOC1-05-A

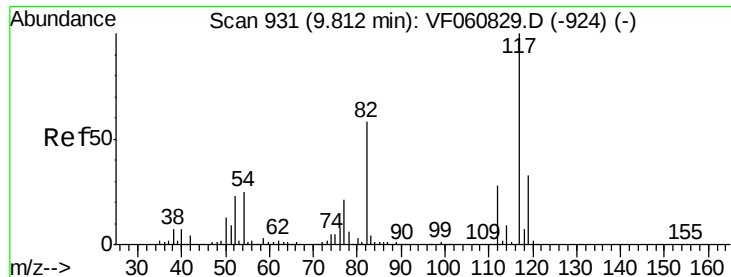
Tot Ion: 43 Resp: 3860
Ion Ratio Lower Upper
43 100
58 39.5 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 47.678 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Tgt Ion: 95 Resp: 188727
Ion Ratio Lower Upper
95 100
174 77.5 0.0 138.2
176 75.5 0.0 146.2

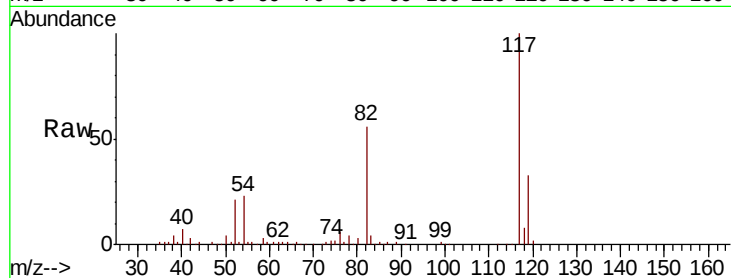




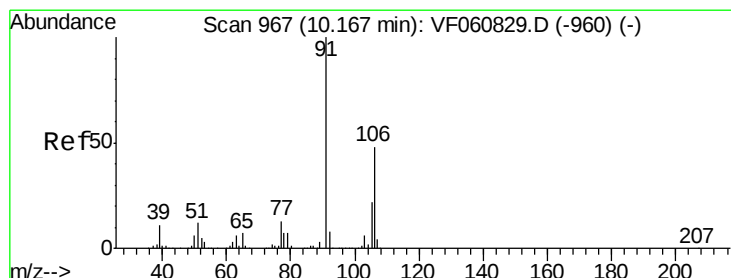
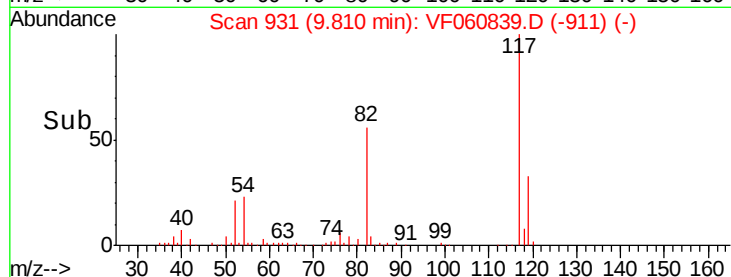
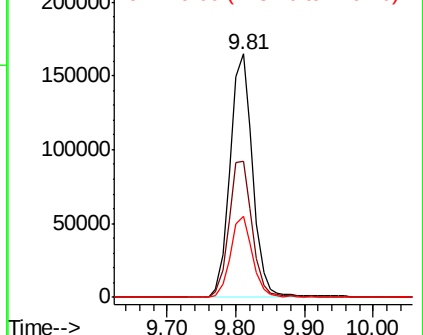
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Instrument :
MSVOA_F
ClientSampleId :
AOC1-05-A

Tot Ion:117 Resp: 375444
Ion Ratio Lower Upper
117 100
82 56.1 46.6 69.8
119 33.4 26.4 39.6

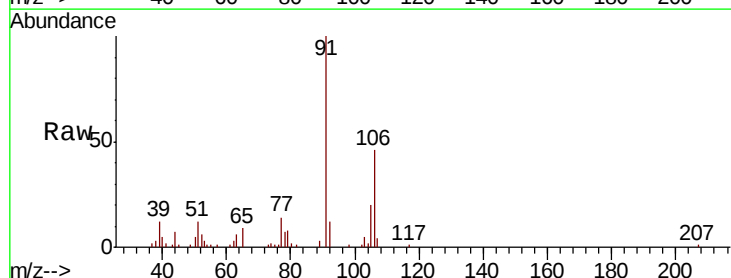


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

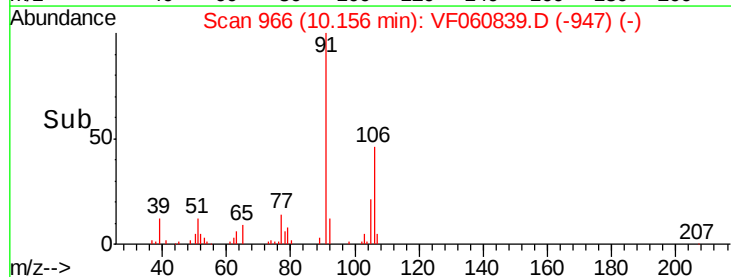
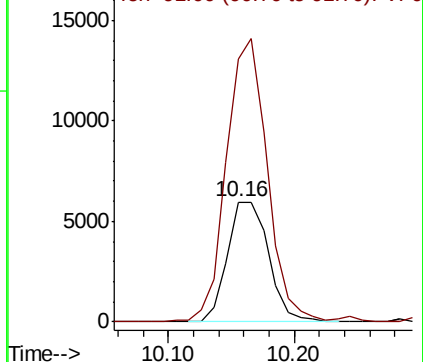


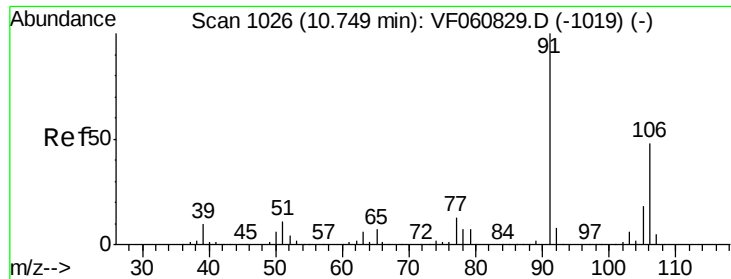
#68
m/p-Xylenes
Concen: 2.745 ug/l
RT: 10.16 min Scan# 966
Delta R.T. -0.01 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Tgt Ion:106 Resp: 13423
Ion Ratio Lower Upper
106 100
91 219.8 166.7 250.1



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

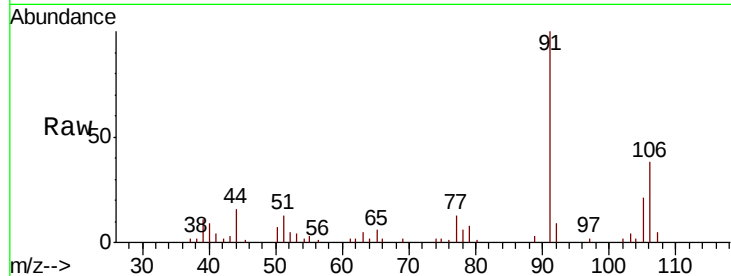




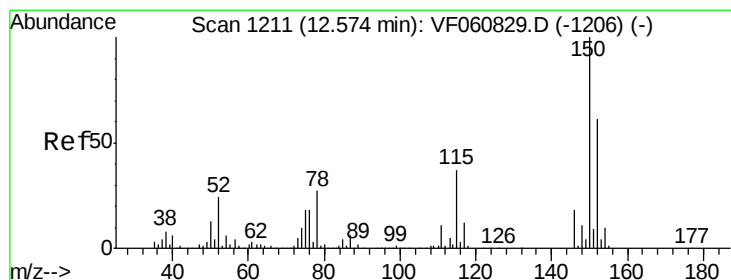
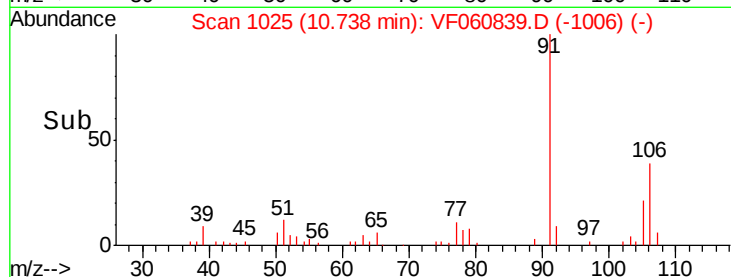
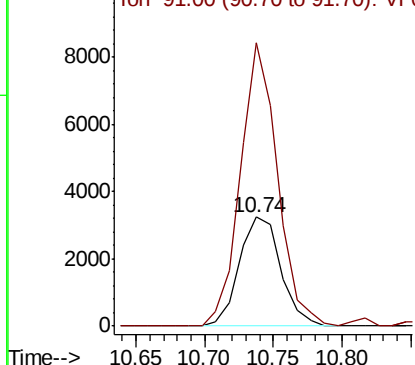
#69
o-Xylene
Concen: 1.260 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Instrument :
MSVOA_F
ClientSampleId :
AOC1-05-A

Tot Ion:106 Resp: 6796
Ion Ratio Lower Upper
106 100
91 260.0 104.8 314.6

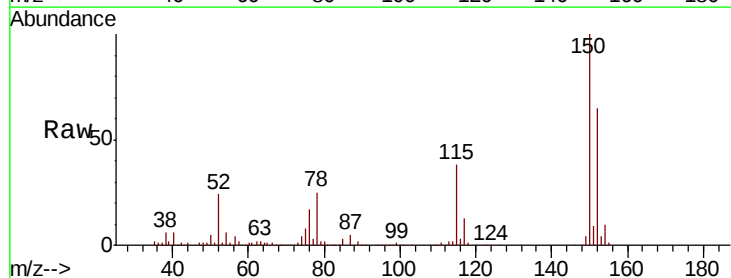


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

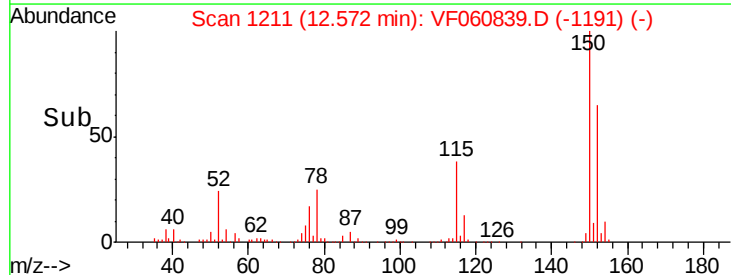
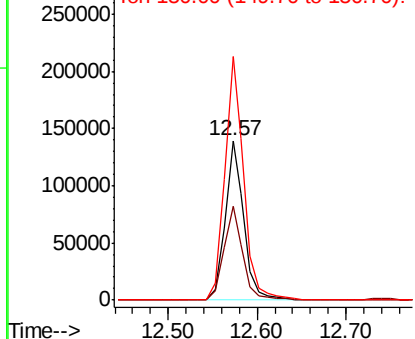


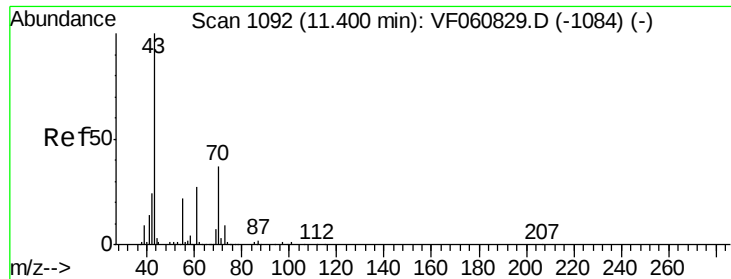
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF060839.D
Acq: 27 Nov 2018 15:29

Tgt Ion:152 Resp: 206808
Ion Ratio Lower Upper
152 100
115 58.5 30.1 90.5
150 152.7 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





#74

N-amvl acetate

Concen: 1.238 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF060839.D

Acq: 27 Nov 2018 15:29

Instrument :

MSVOA_F

ClientSampleId :

AOC1-05-A

Tot Ion: 43 Resp: 4673

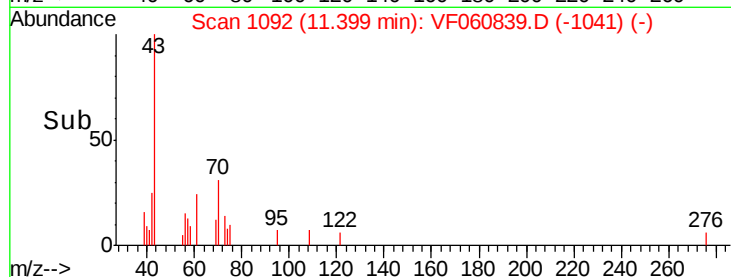
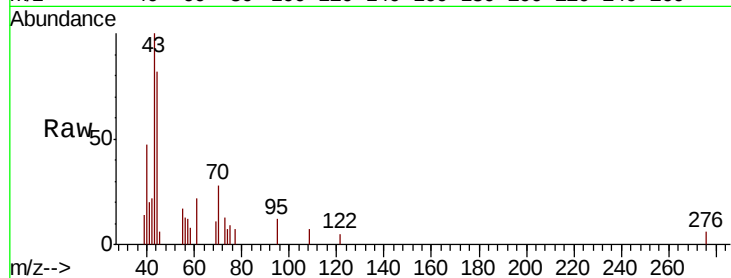
Ion Ratio Lower Upper

43 100

70 27.9 29.6 44.4#

55 16.9 17.2 25.8#

61 21.8 21.8 32.6

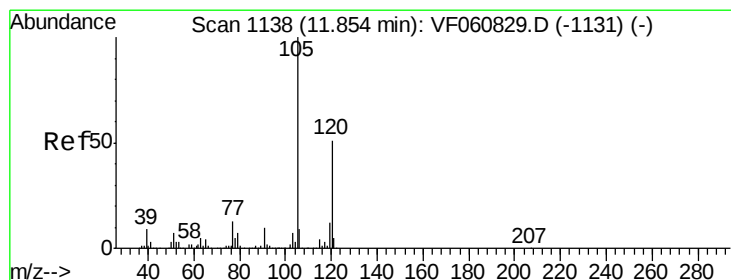
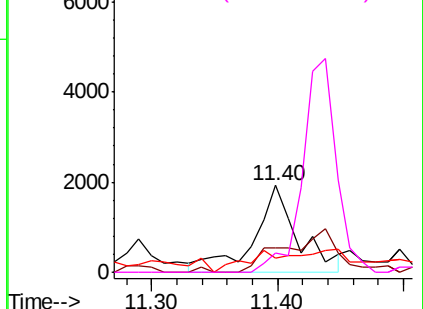


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#80

1,3,5-Trimethylbenzene

Concen: 1.302 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF060839.D

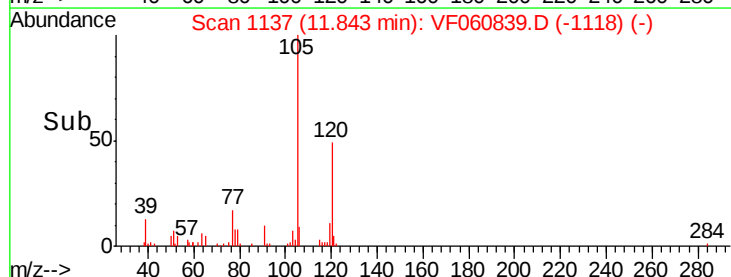
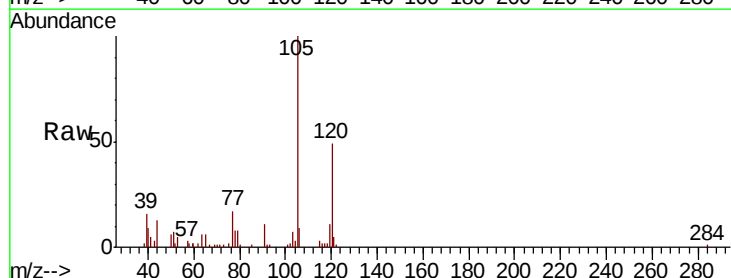
Acq: 27 Nov 2018 15:29

Tgt Ion:105 Resp: 17278

Ion Ratio Lower Upper

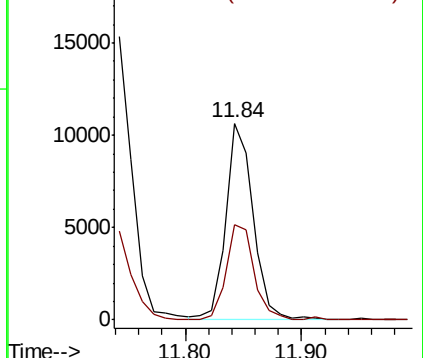
105 100

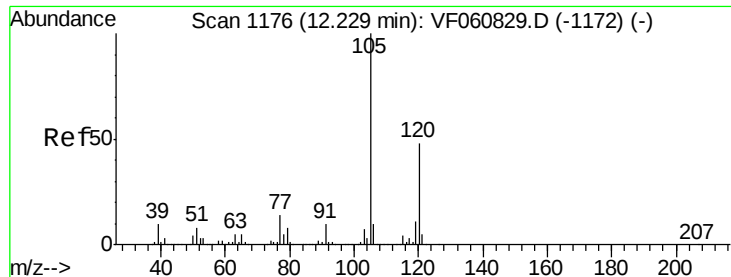
120 48.7 25.8 77.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

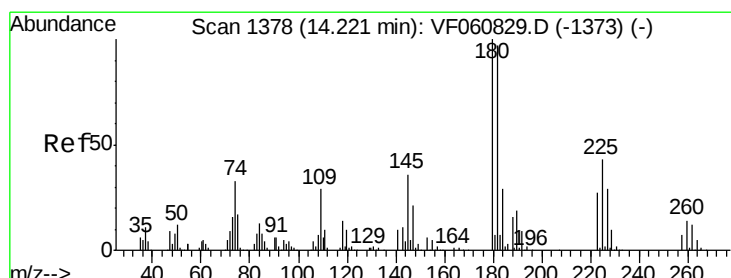
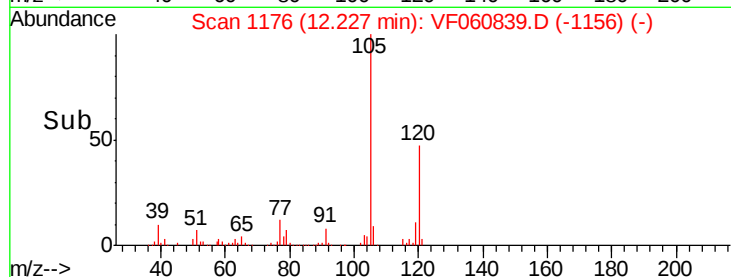
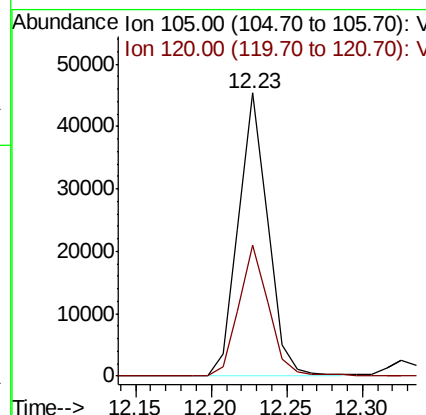
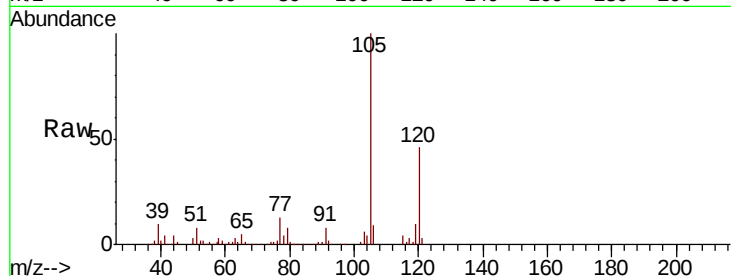




#84
 1,2,4-Trimethylbenzene
 Concen: 4.676 ug/l
 RT: 12.23 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: VF060839.D
 Acq: 27 Nov 2018 15:29

Instrument :
 MSVOA_F
 ClientSampled :
 AOC1-05-A

Tot Ion:105 Resp: 61921
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.8 71.5



#93
 1,2,4-Trichlorobenzene
 Concen: 1.821 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF060839.D
 Acq: 27 Nov 2018 15:29

Tgt Ion:180 Resp: 8214
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.5 145.5
 145 38.7 18.1 54.3

