

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF110918\
 Data File : VF060674.D
 Acq On : 9 Nov 2018 16:14
 Operator : VA/AP
 Sample : J5864-01RE
 Misc : 4.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OLDMANS-1RE

Quant Time: Nov 12 04:13:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	249525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	417486	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	404676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	216015	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	151445	60.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.14%	
35) Dibromofluoromethane	4.11	113	186034	57.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.36%	
50) Toluene-d8	7.55	98	472364	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.41	95	234829	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	

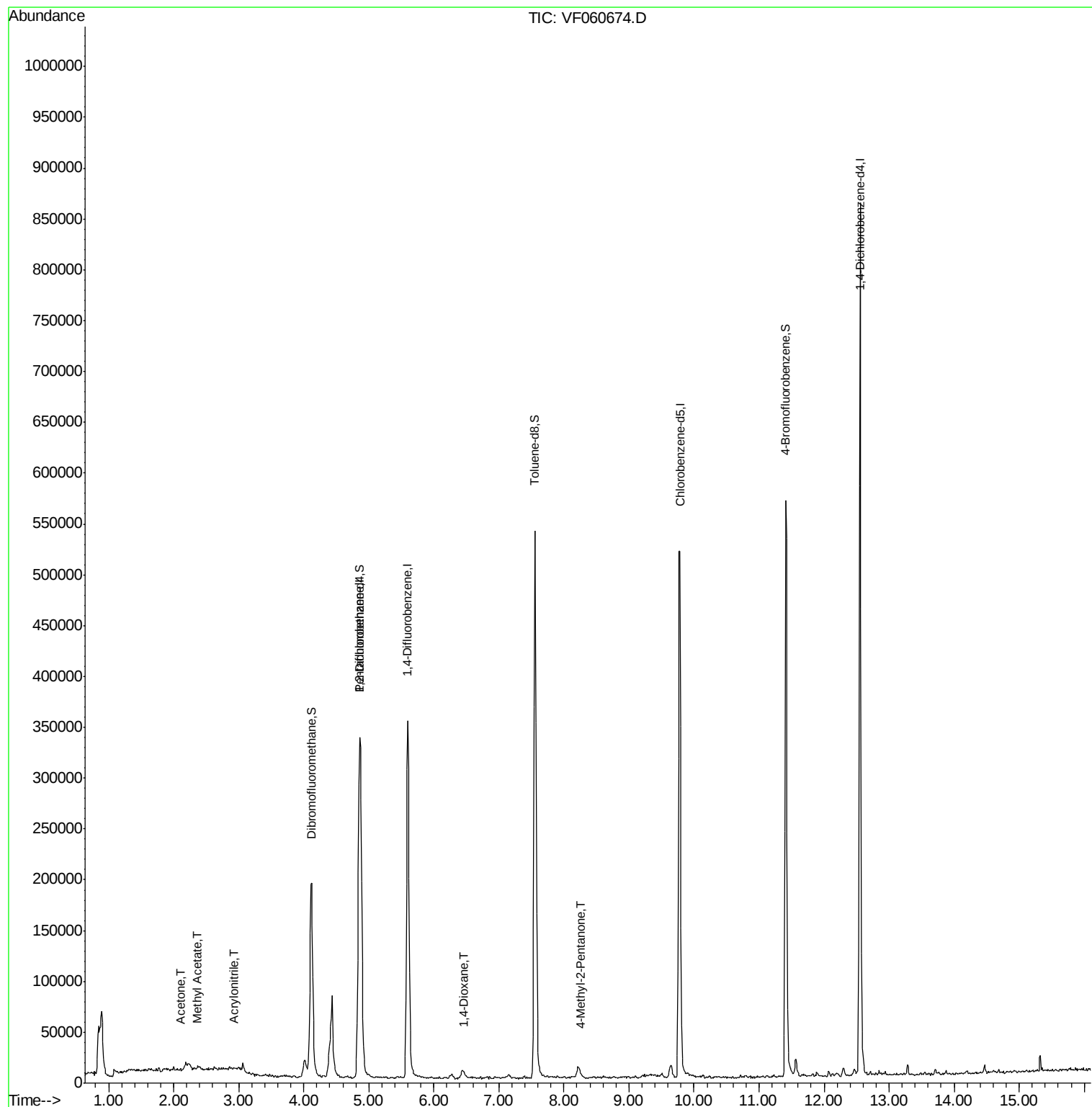
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	520	Below Cal	#	41
6) Chloroethane	1.33	64	259	Below Cal	#	40
11) Tert butyl alcohol	2.57	59	227	Below Cal	#	1
13) Acrolein	2.13	56	157	Below Cal		94
15) Acrylonitrile	2.94	53	538	1.791	ug/l #	58
16) Acetone	2.12	43	743	1.251	ug/l	99
18) Methyl Acetate	2.35	43	1719	2.324	ug/l #	92
20) Methylene Chloride	2.24	84	3444	Below Cal	#	79
25) 2-Butanone	4.33	43	485	Below Cal	#	56
29) Tetrahydrofuran	4.08	42	1049	Below Cal	#	56
49) 1,4-Dioxane	6.47	88	72	3.923	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	3278	1.746	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.62	63	153	Below Cal		100
59) 2-Hexanone	9.63	43	393	Below Cal		79
74) N-amyl acetate	11.38	43	1530	Below Cal	#	73
89) n-Butylbenzene	12.85	91	1697	Below Cal		96

(#) = 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. 0.00 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

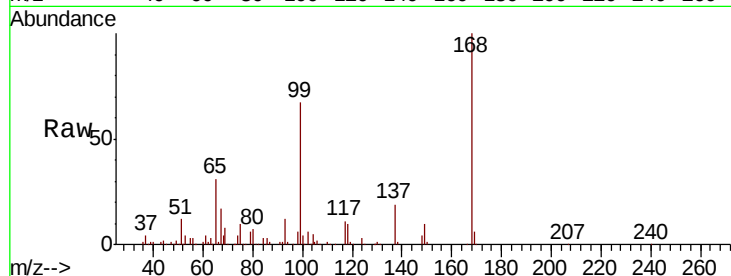
OLDMANS-1RE

Tgt Ion:168 Resp: 249525

Ion Ratio Lower Upper

168 100

99 66.8 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

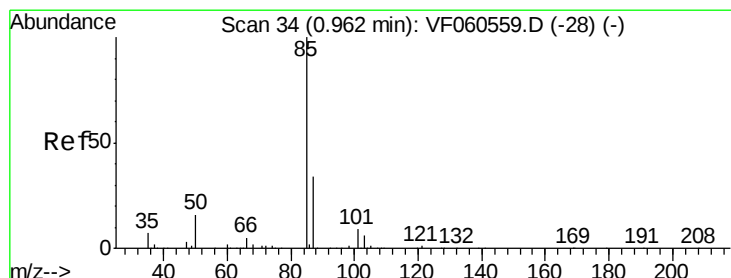
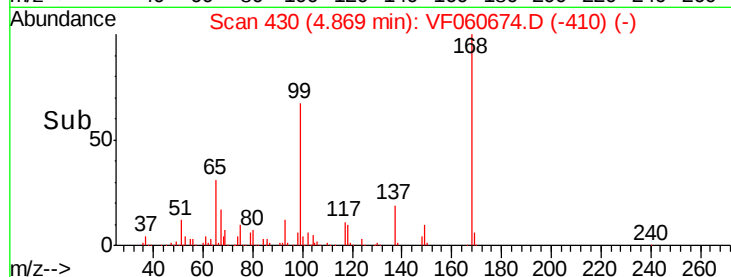
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060674.D

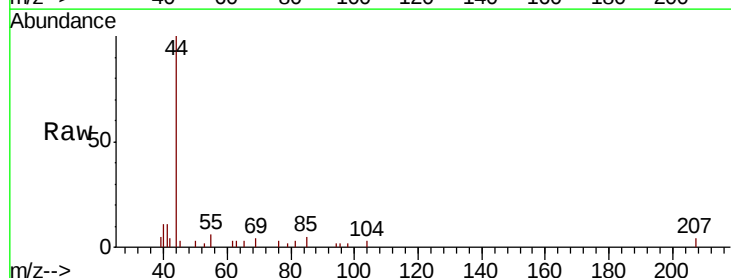
Acq: 9 Nov 2018 16:14

Tgt Ion: 85 Resp: 520

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

250

200

150

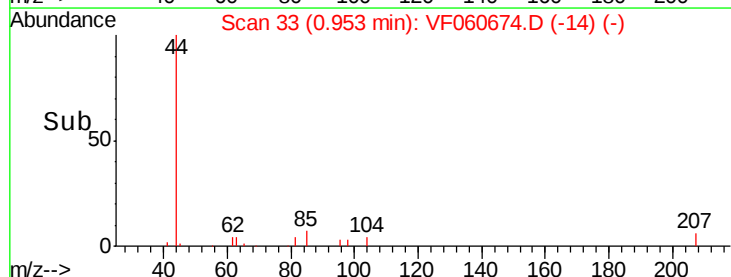
100

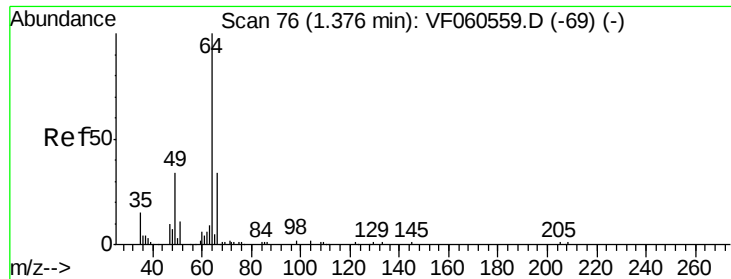
50

0

0.90 0.95 1.00

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.05 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

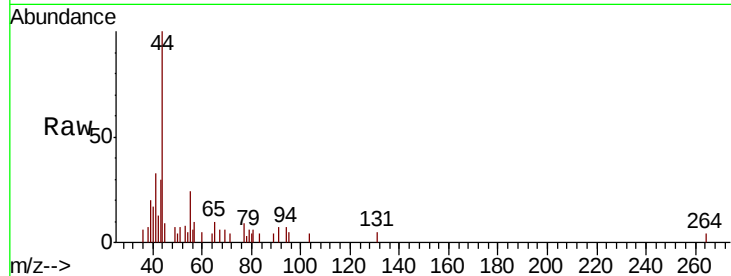
OLDMANS-1RE

Tgt Ion: 64 Resp: 259

Ion Ratio Lower Upper

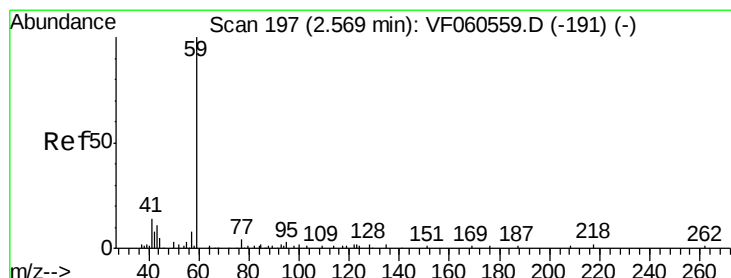
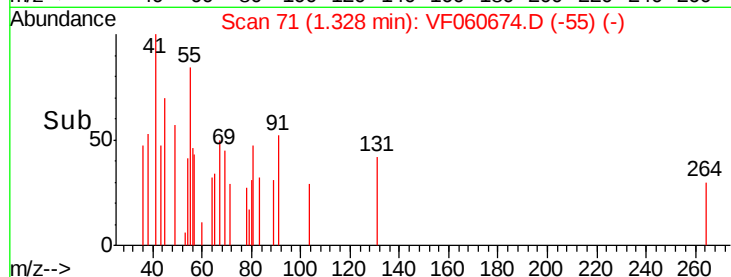
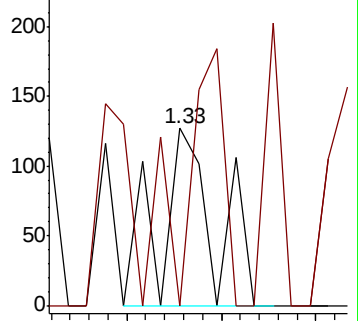
64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF060674.D

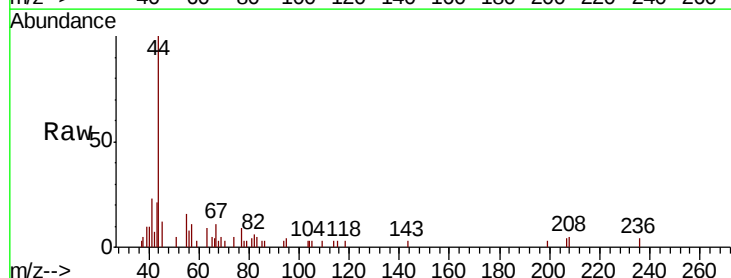
Acq: 9 Nov 2018 16:14

Tgt Ion: 59 Resp: 227

Ion Ratio Lower Upper

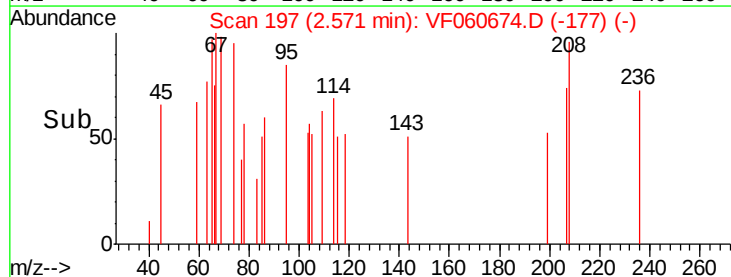
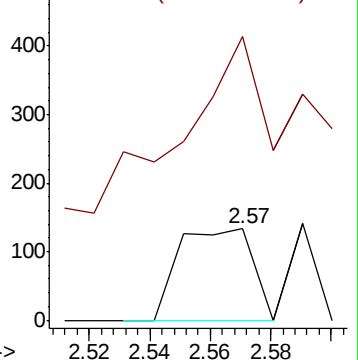
59 100

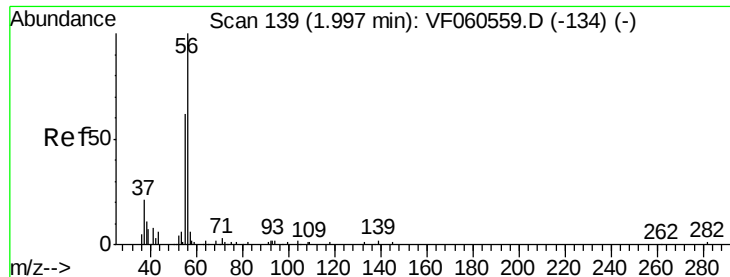
57 310.5 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 152

Delta R.T. 0.13 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

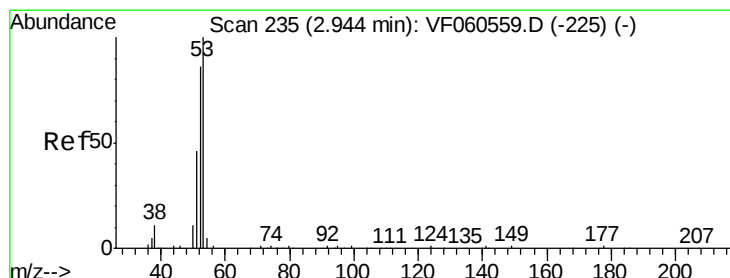
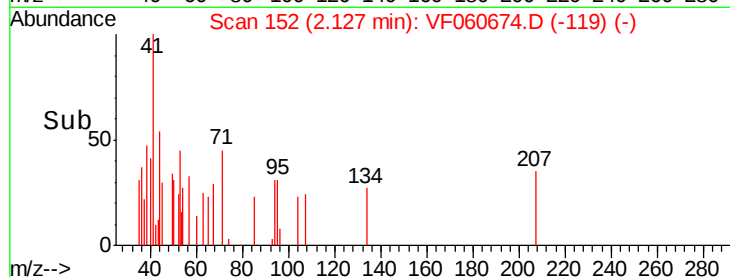
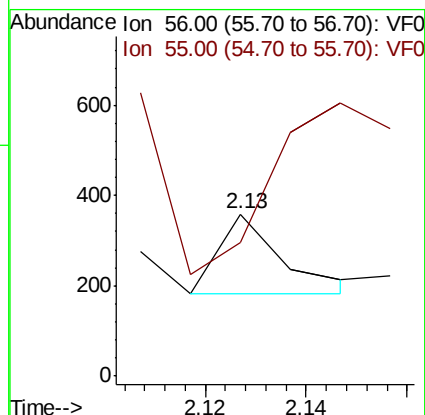
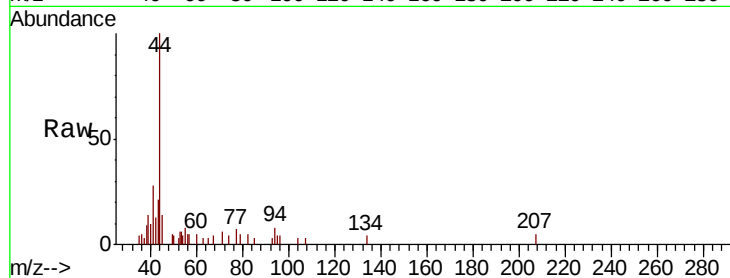
OLDMANS-1RE

Tgt Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 82.7 61.8 92.6



#15

Acrylonitrile

Concen: 1.791 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

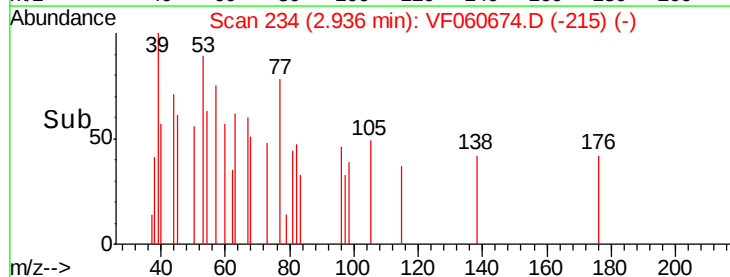
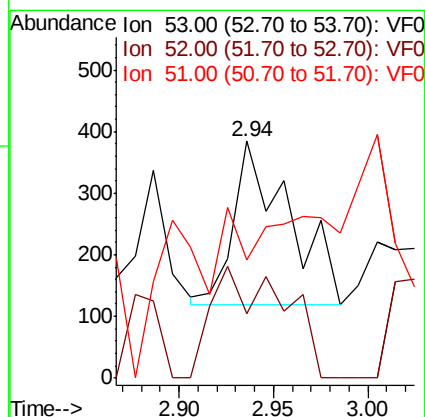
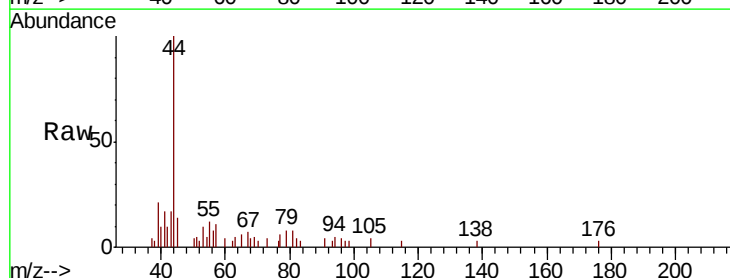
Tgt Ion: 53 Resp: 538

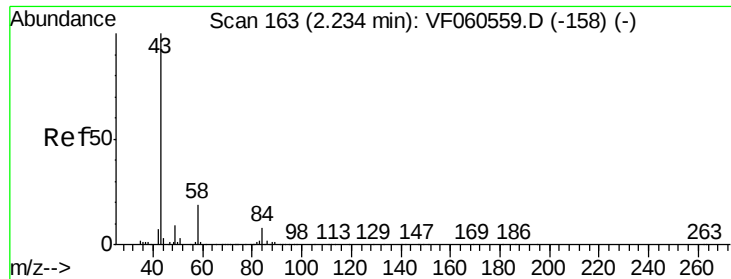
Ion Ratio Lower Upper

53 100

52 27.3 68.5 102.7#

51 50.0 38.2 57.2





#16

Acetone

Concen: 1.251 ug/l

RT: 2.12 min Scan# 151

Delta R.T. -0.12 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

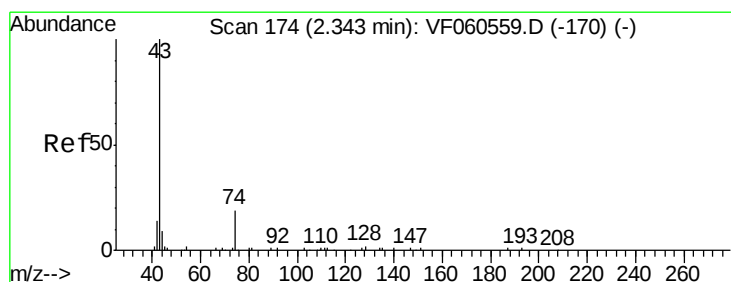
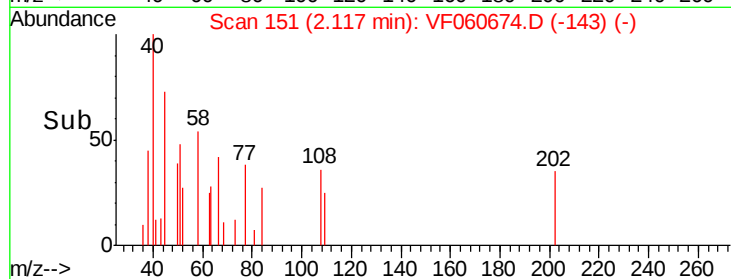
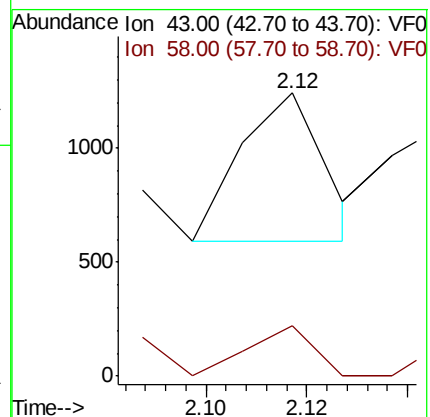
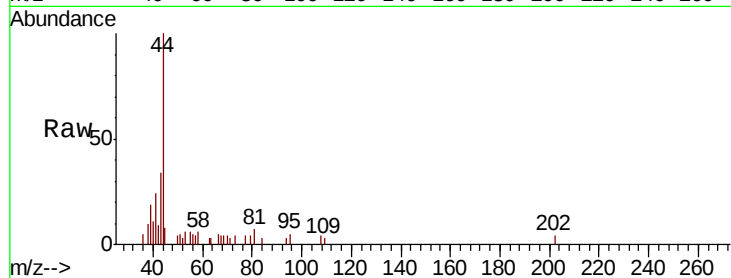
OLDMANS-1RE

Tgt Ion: 43 Resp: 743

Ion Ratio Lower Upper

43 100

58 17.8 14.6 22.0



#18

Methyl Acetate

Concen: 2.324 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF060674.D

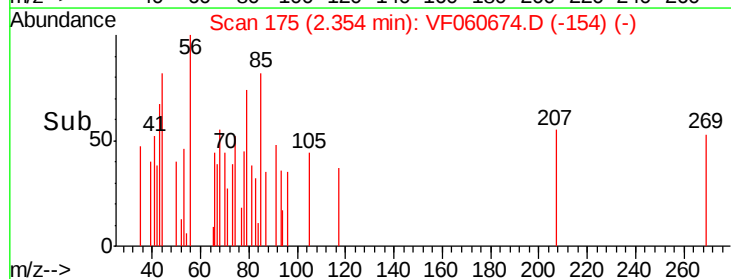
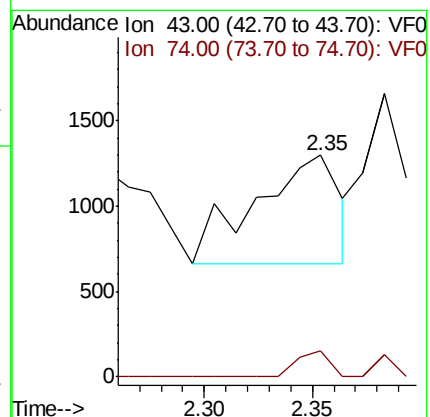
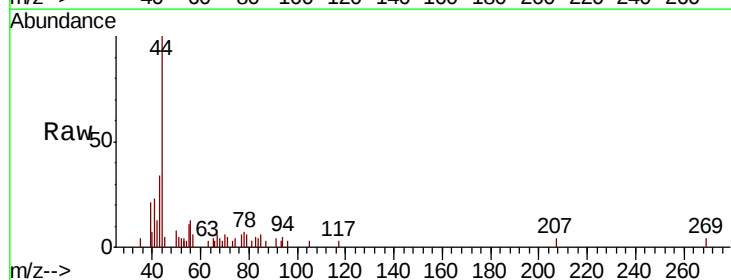
Acq: 9 Nov 2018 16:14

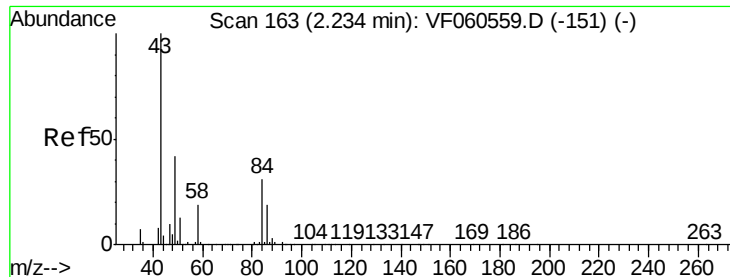
Tgt Ion: 43 Resp: 1719

Ion Ratio Lower Upper

43 100

74 11.9 12.1 18.1#

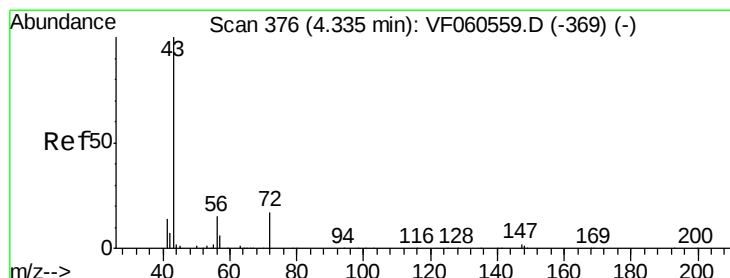
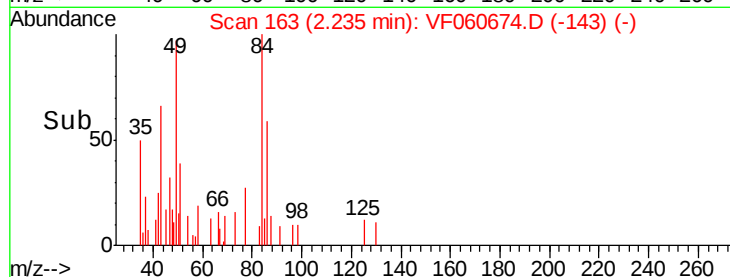
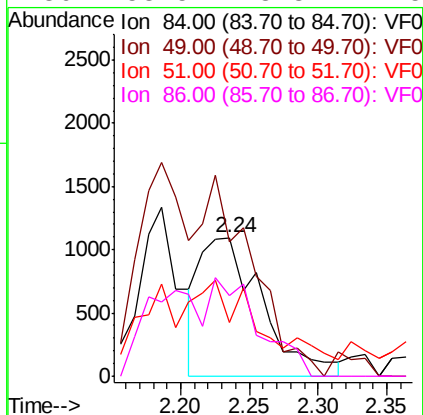
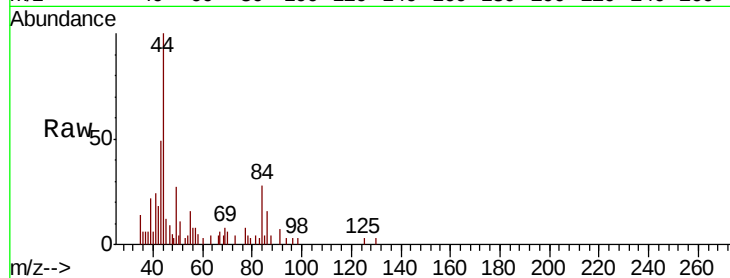




#20
Methylene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

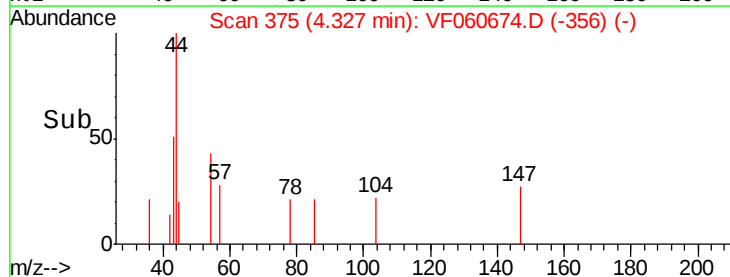
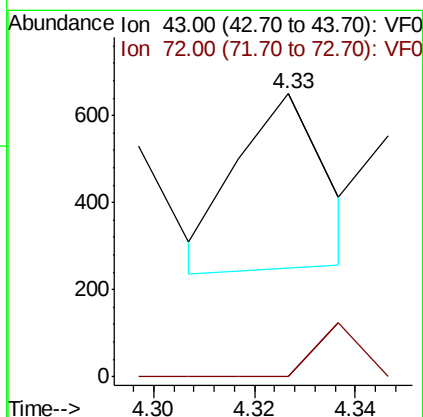
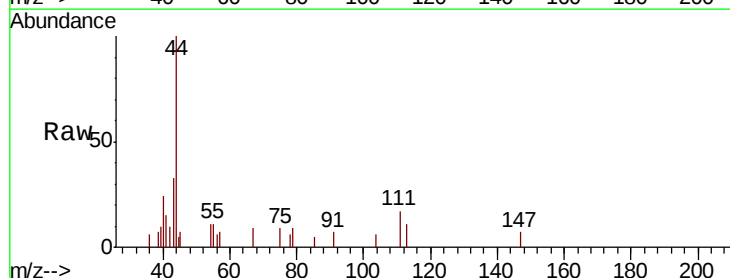
Instrument :
MSVOA_F
ClientSampleId :
OLDMANS-1RE

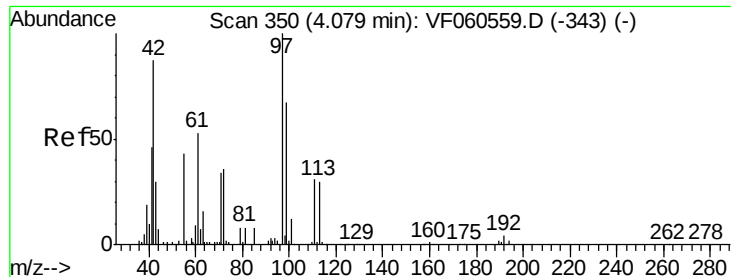
Tgt Ion: 84 Resp: 3444
Ion Ratio Lower Upper
84 100
49 96.8 109.9 164.9#
51 38.7 35.8 53.8
86 58.5 48.3 72.5



#25
2-Butanone
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. -0.01 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

Tgt Ion: 43 Resp: 485
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

OLDMANS-1RE

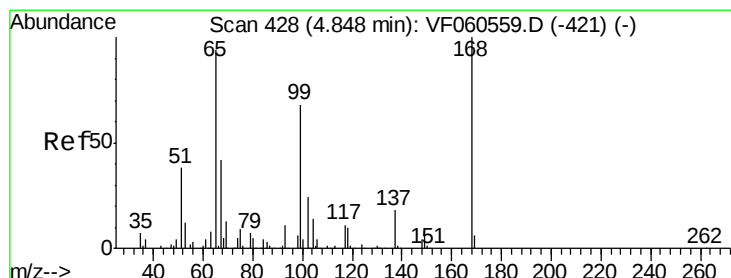
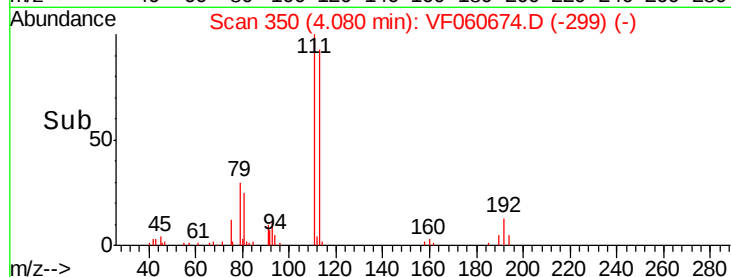
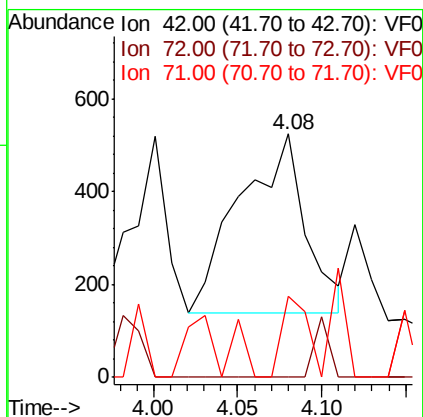
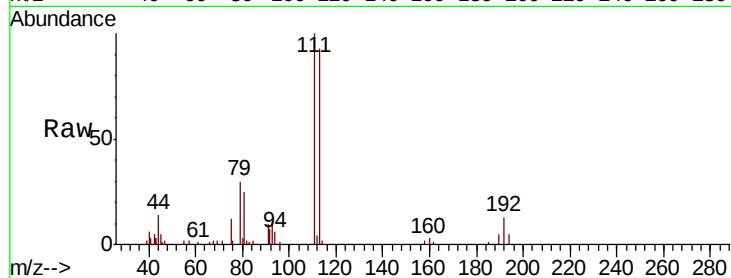
Tgt Ion: 42 Resp: 1049

Ion Ratio Lower Upper

42 100

72 7.4 31.4 47.0#

71 17.9 31.8 47.6#



#33

1,2-Dichloroethane-d4

Concen: 60.070 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF060674.D

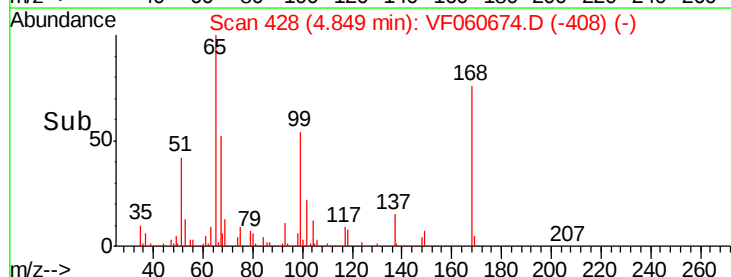
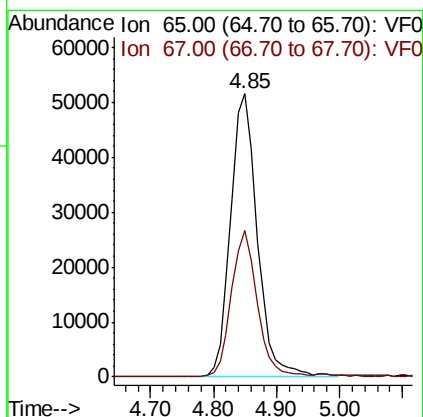
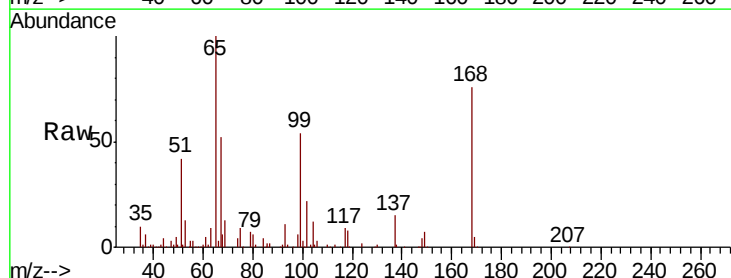
Acq: 9 Nov 2018 16:14

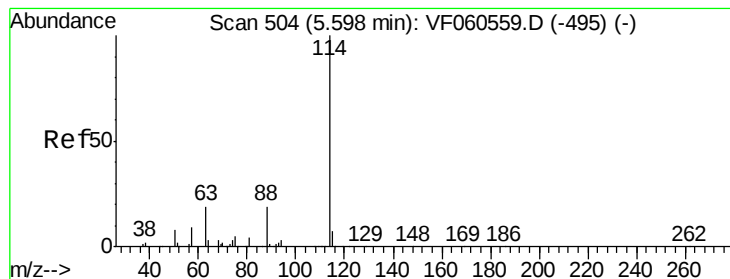
Tgt Ion: 65 Resp: 151445

Ion Ratio Lower Upper

65 100

67 51.6 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

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ClientSampleId :

OLDMANS-1RE

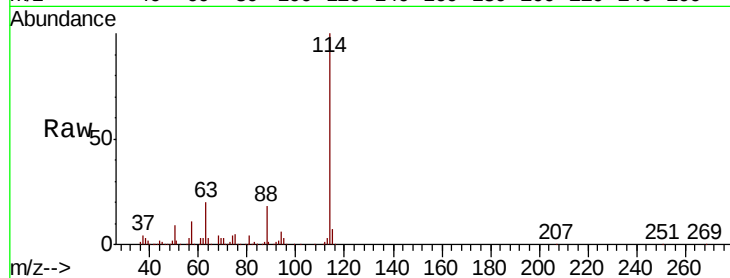
Tgt Ion:114 Resp: 417486

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

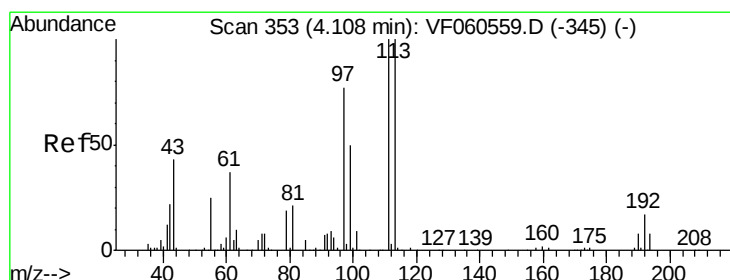
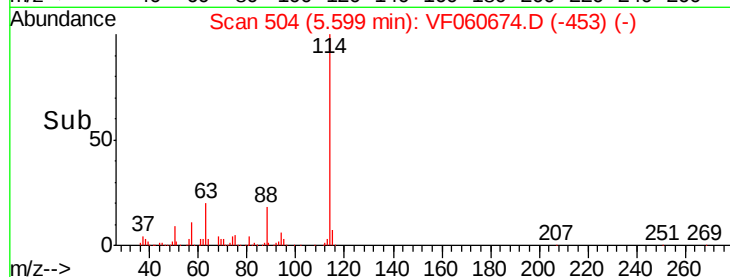
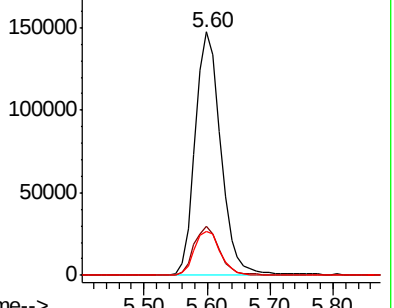
88 18.2 0.0 38.2



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: 57.676 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

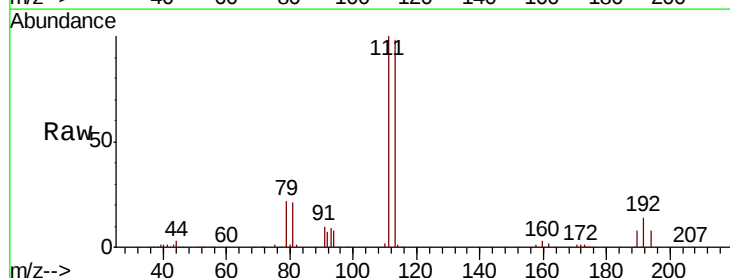
Tgt Ion:113 Resp: 186034

Ion Ratio Lower Upper

113 100

111 101.7 79.9 119.9

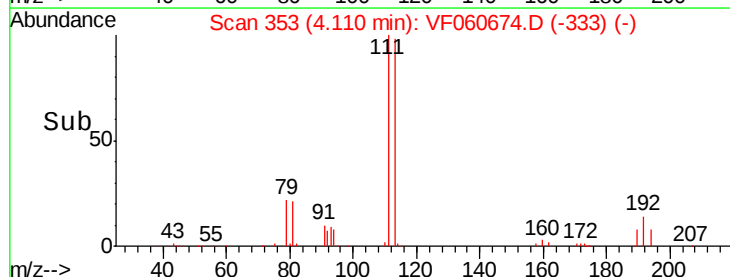
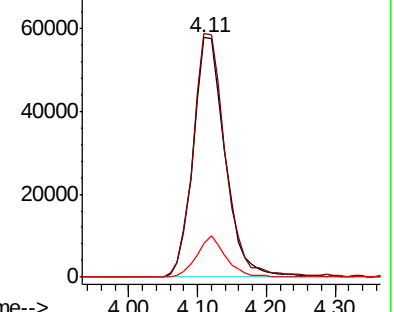
192 14.3 13.3 19.9

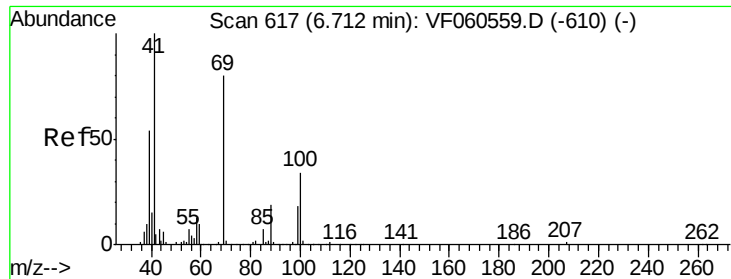


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.923 ug/l

RT: 6.47 min Scan# 592

Delta R.T. -0.25 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

OLDMANS-1RE

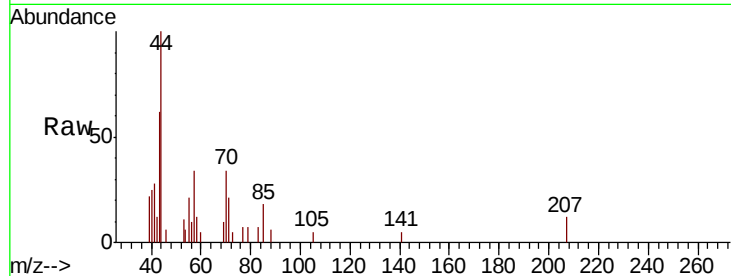
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 1103.3 61.2 91.8#

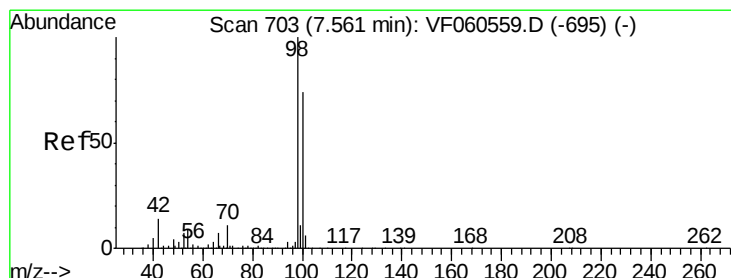
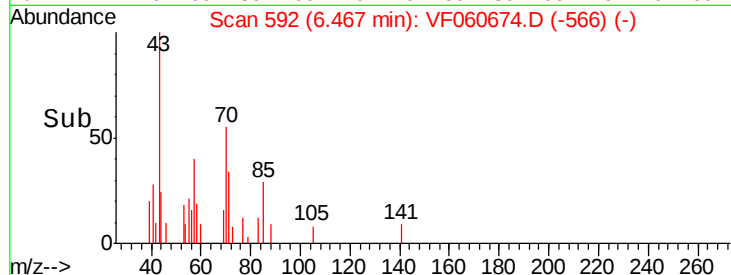
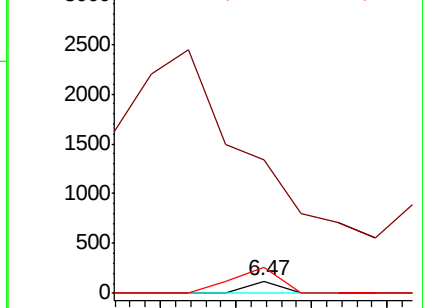
58 214.0 56.9 85.3#



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



#50

Toluene-d8

Concen: 49.437 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060674.D

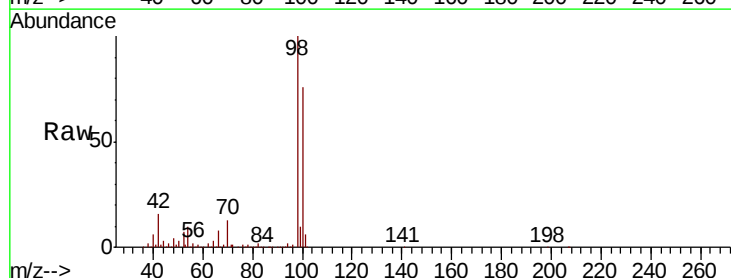
Acq: 9 Nov 2018 16:14

Tgt Ion: 98 Resp: 472364

Ion Ratio Lower Upper

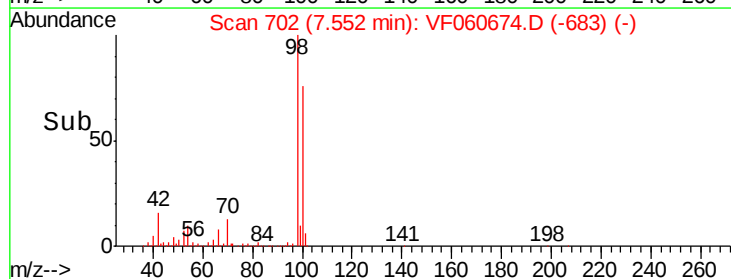
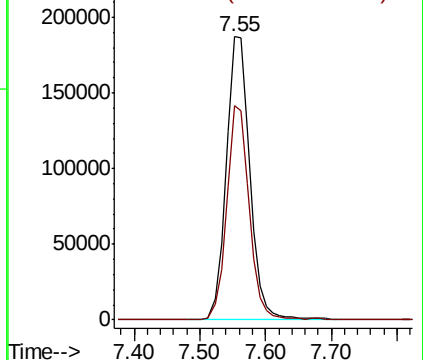
98 100

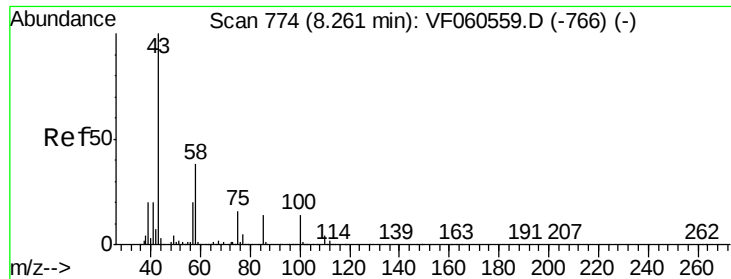
100 75.6 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

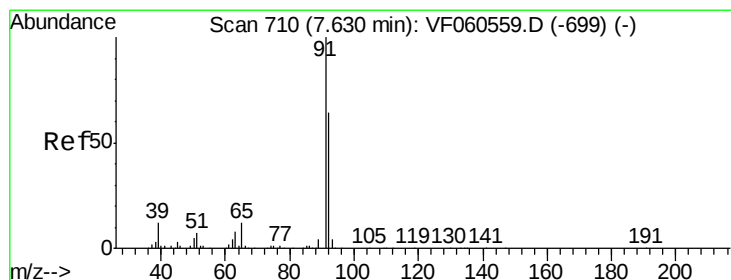
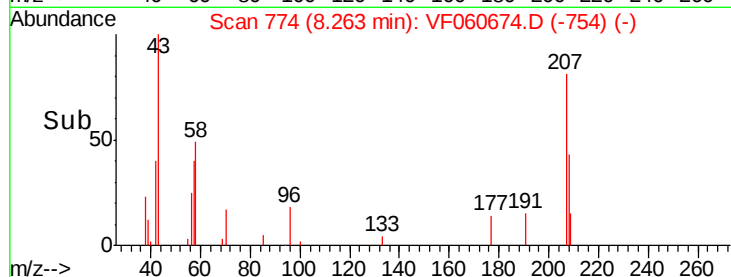
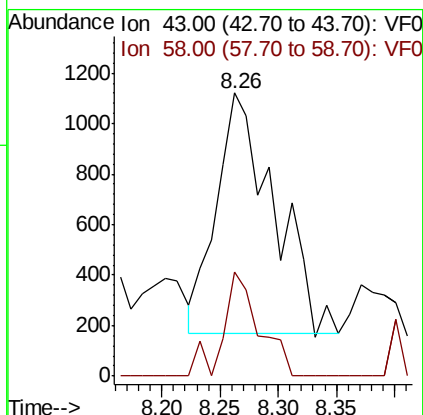
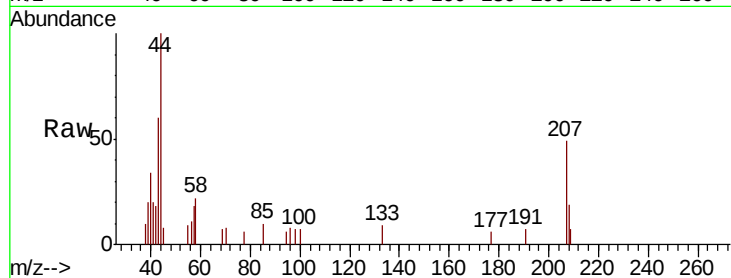




#51
 4-Methyl-2-Pentanone
 Concen: 1.746 ug/l
 RT: 8.26 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: VF060674.D
 Acq: 9 Nov 2018 16:14

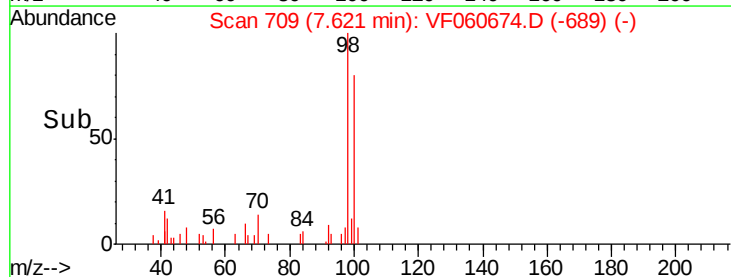
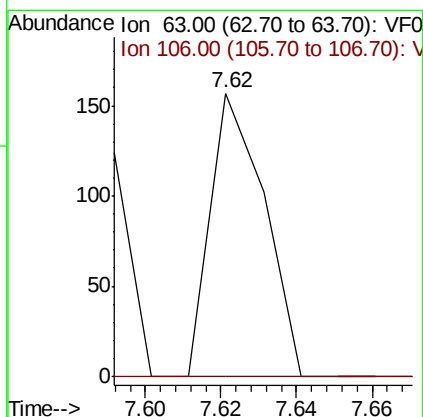
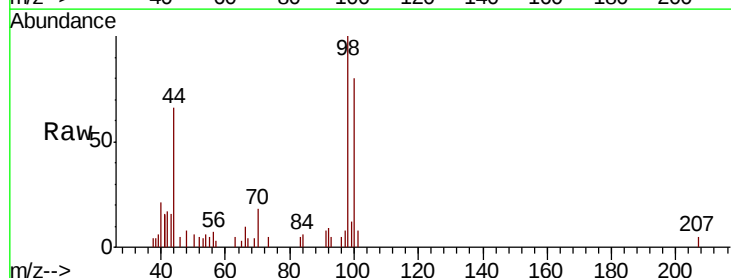
Instrument :
 MSVOA_F
 ClientSampleId :
 OLDMANS-1RE

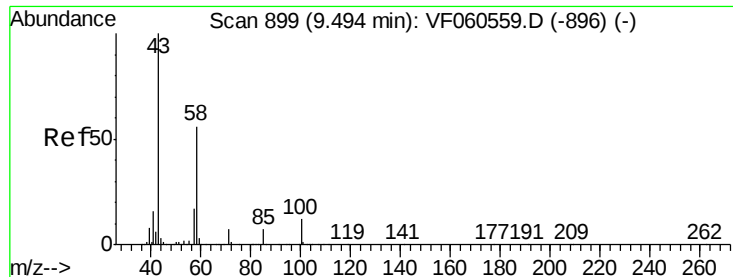
Tgt Ion: 43 Resp: 3278
 Ion Ratio Lower Upper
 43 100
 58 36.9 30.1 45.1



#58
 2-Chloroethyl Vinyl ether
 Concen: Below Cal
 RT: 7.62 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: VF060674.D
 Acq: 9 Nov 2018 16:14

Tgt Ion: 63 Resp: 153
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

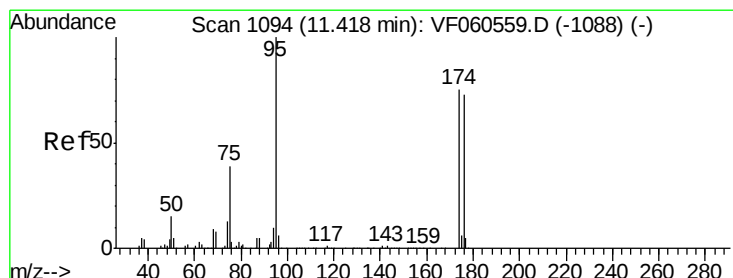
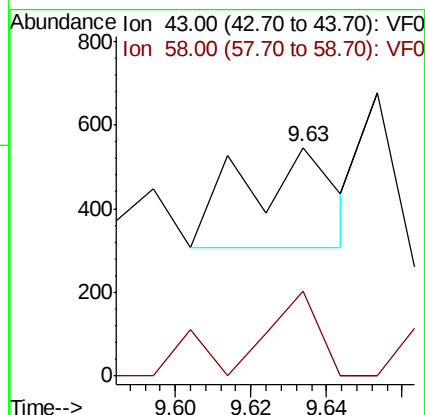
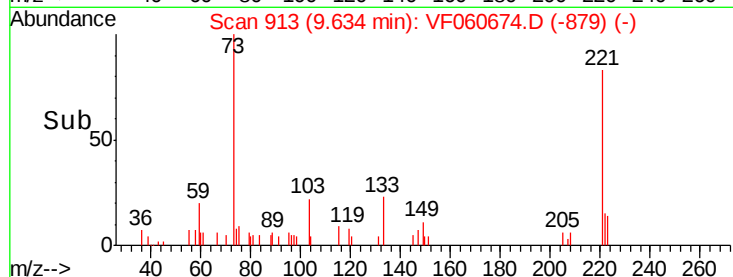
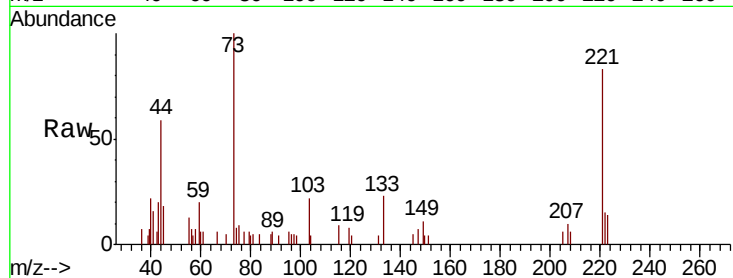




#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 913
Delta R.T. 0.14 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

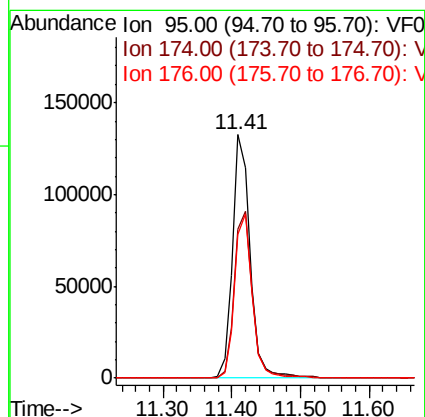
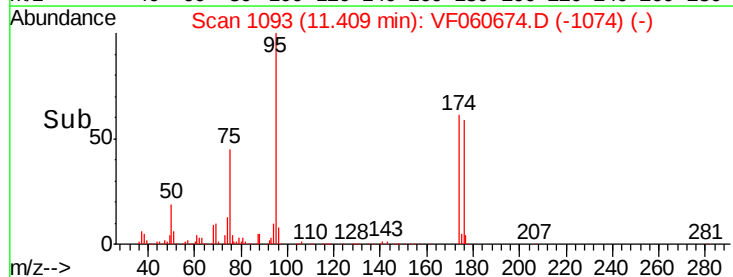
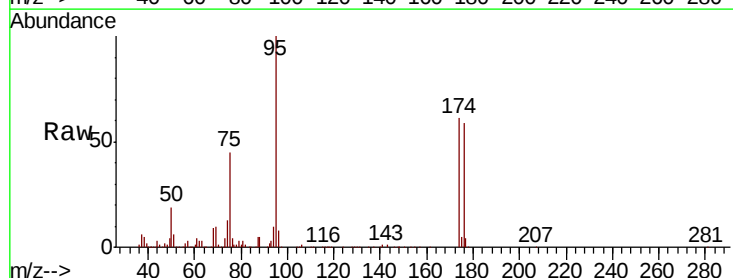
Instrument :
MSVOA_F
ClientSampleId :
OLDMANS-1RE

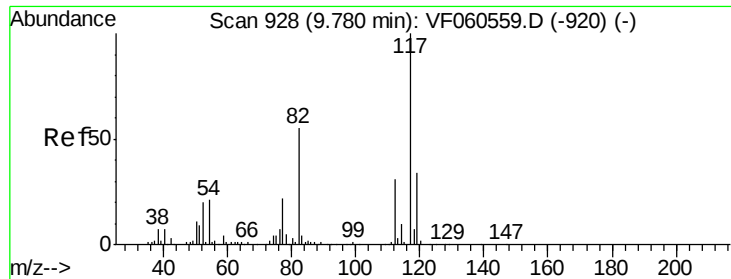
Tgt Ion: 43 Resp: 393
Ion Ratio Lower Upper
43 100
58 37.2 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 56.187 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

Tgt Ion: 95 Resp: 234829
Ion Ratio Lower Upper
95 100
174 61.0 0.0 149.0
176 59.0 0.0 145.6

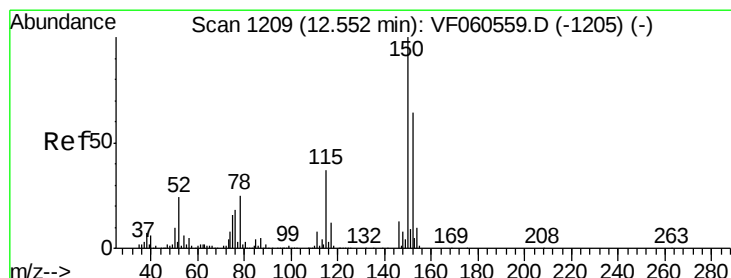
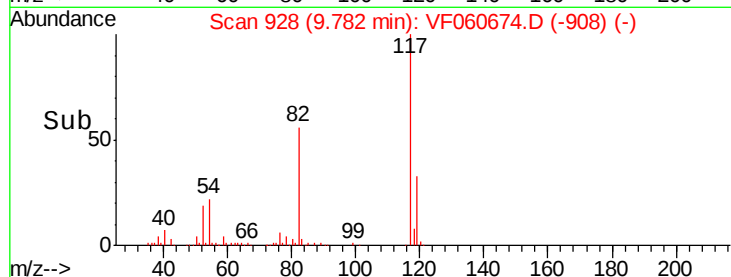
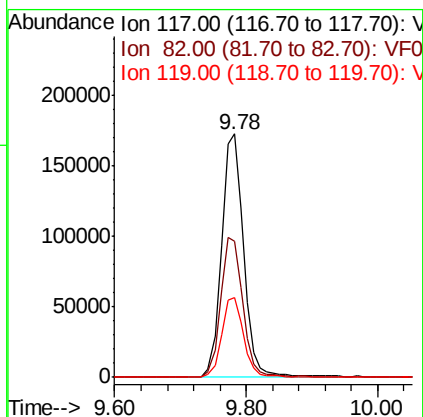
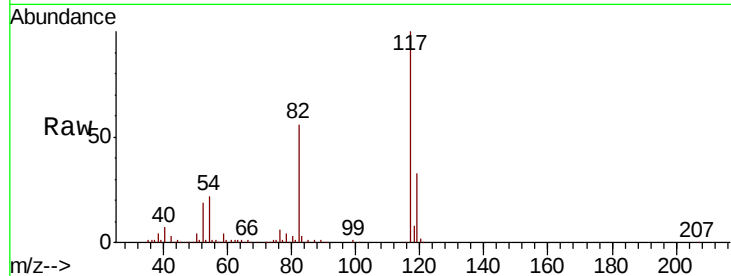




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

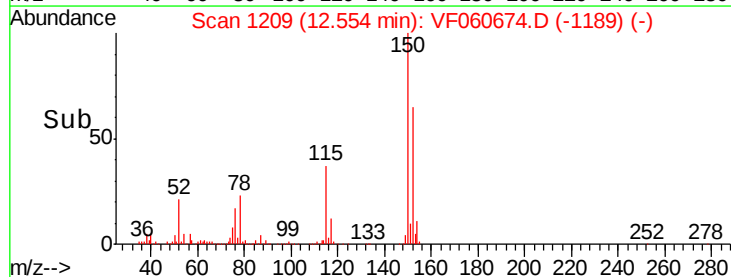
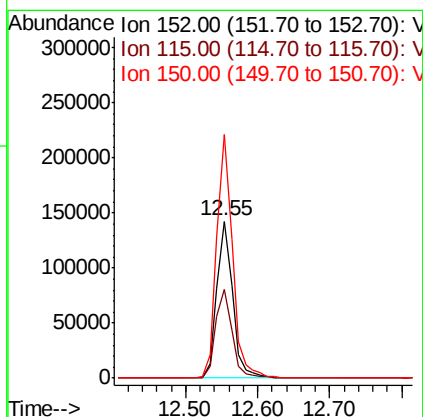
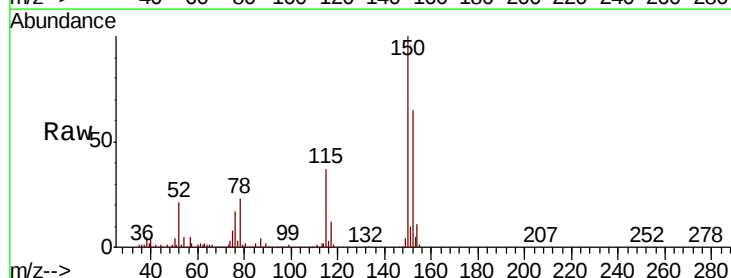
Instrument :
MSVOA_F
ClientSampleId :
OLDMANS-1RE

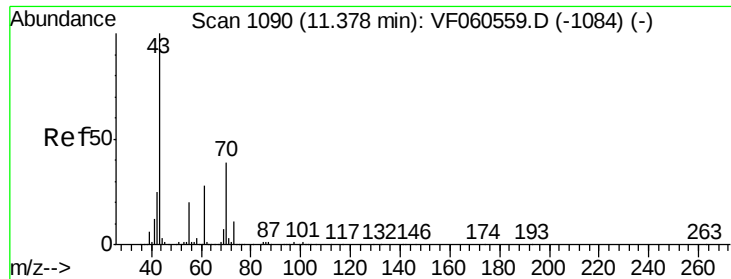
Tgt Ion:117 Resp: 404676
Ion Ratio Lower Upper
117 100
82 55.7 43.9 65.9
119 32.5 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060674.D
Acq: 9 Nov 2018 16:14

Tgt Ion:152 Resp: 216015
Ion Ratio Lower Upper
152 100
115 56.8 29.6 88.8
150 154.9 0.0 315.6





#74

N-amyI acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060674.D

Acq: 9 Nov 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

OLDMANS-1RE

Tgt Ion: 43 Resp: 1530

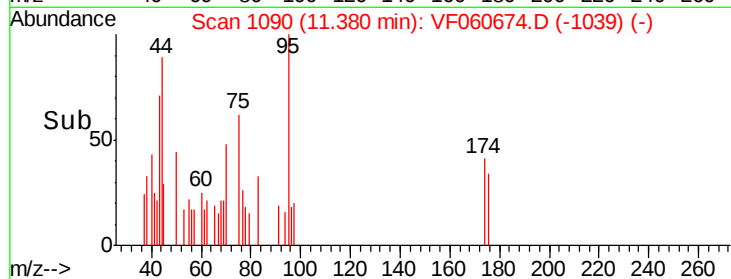
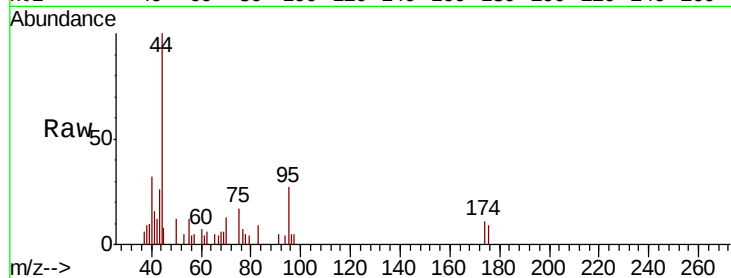
Ion Ratio Lower Upper

43 100

70 49.3 30.9 46.3#

55 45.3 16.6 24.8#

61 17.2 22.0 33.0#



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

