

Data File : VF060695.D
Acq On : 12 Nov 2018 20:29
Operator : VA/AP
Sample : J5907-03RE
Misc : 6.19g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
TP-2-S

Quant Time: Nov 13 04:18:54 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	4.86	168	252282	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	416944	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	395664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	220351	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	142182	55.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.56%	
35) Dibromofluoromethane	4.11	113	163417	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
50) Toluene-d8	7.54	98	385560	40.40	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	80.80%	
62) 4-Bromofluorobenzene	11.41	95	195689	46.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	

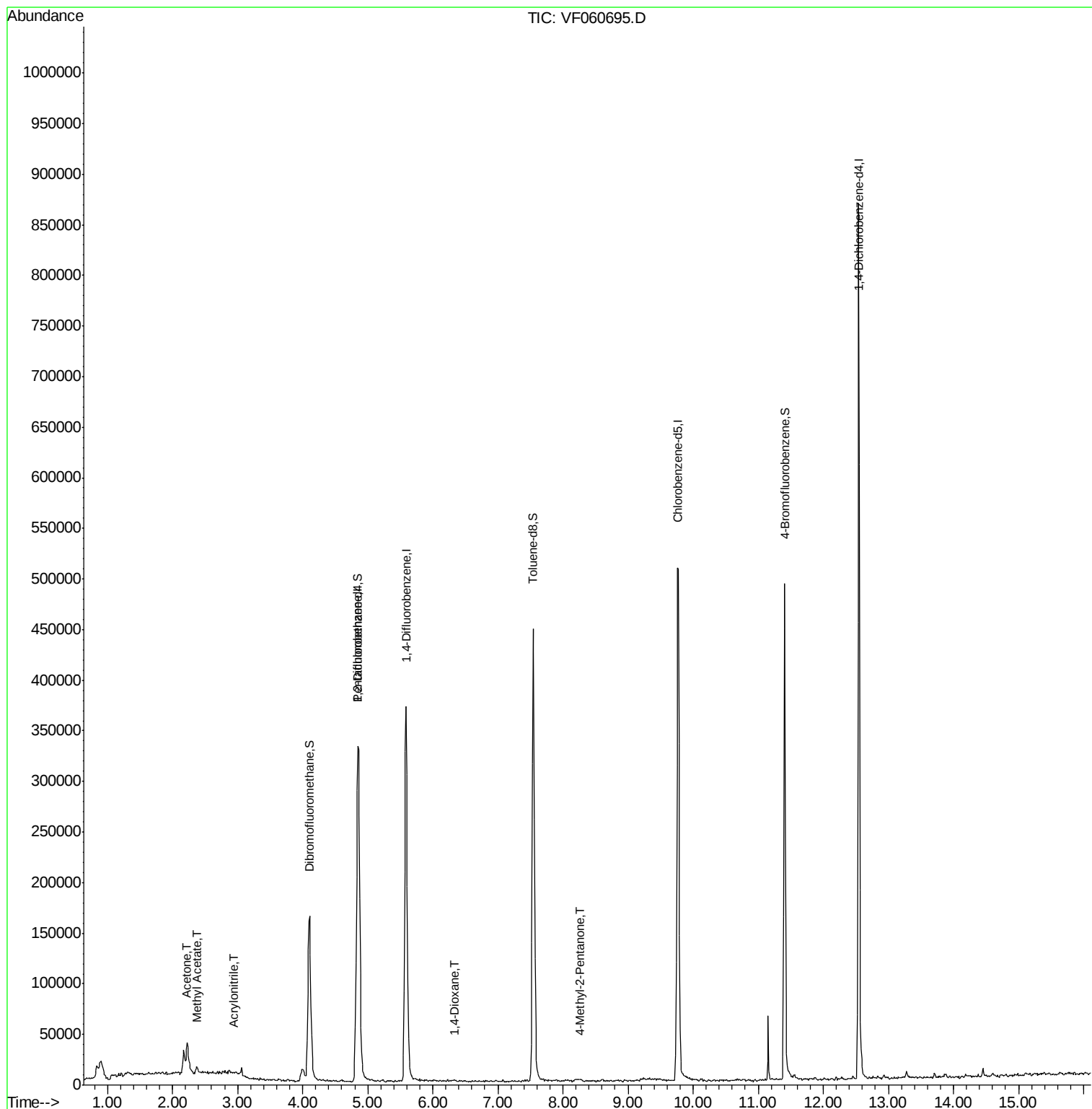
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.95	85	105	Below Cal	#	41
6) Chloroethane	1.36	64	66	Below Cal	#	1
11) Tert butyl alcohol	2.55	59	432	Below Cal	#	1
13) Acrolein	2.01	56	299	Below Cal		87
15) Acrylonitrile	2.93	53	343	1.129	ug/l #	65
16) Acetone	2.23	43	20590	34.280	ug/l	92
18) Methyl Acetate	2.37	43	2458	3.088	ug/l #	64
25) 2-Butanone	4.33	43	1431	Below Cal	#	56
29) Tetrahydrofuran	4.07	42	802	Below Cal	#	67
49) 1,4-Dioxane	6.33	88	65	3.547	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	3541	1.889	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.64	63	83	Below Cal		100
59) 2-Hexanone	9.49	43	1906	Below Cal		84
74) N-amyl acetate	11.38	43	1670	Below Cal	#	39
89) n-Butylbenzene	12.84	91	1162	Below Cal	#	61

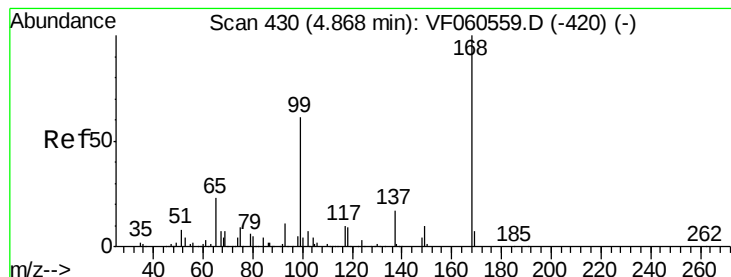
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

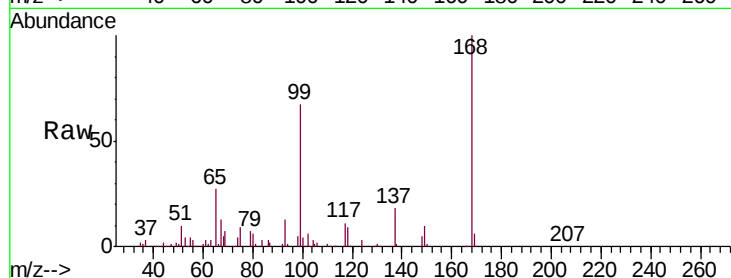
TP-2-S

Tgt Ion:168 Resp: 252282

Ion Ratio Lower Upper

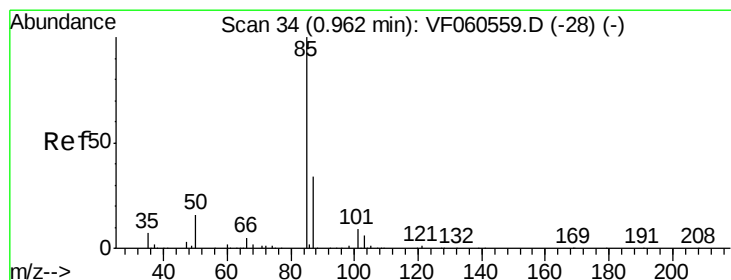
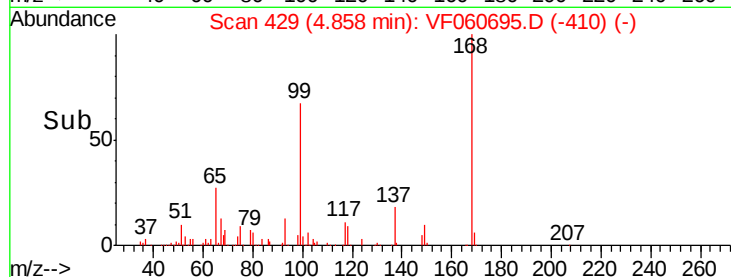
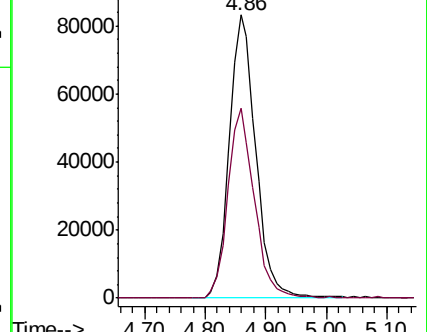
168 100

99 67.3 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060695.D

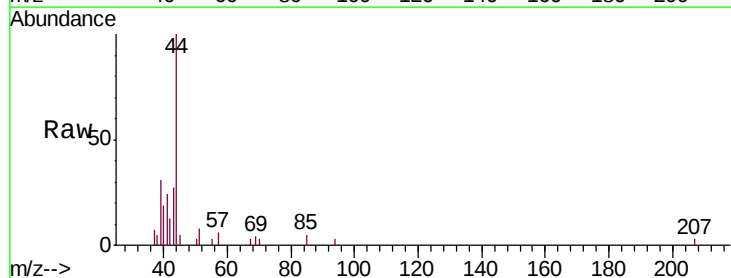
Acq: 12 Nov 2018 20:29

Tgt Ion: 85 Resp: 105

Ion Ratio Lower Upper

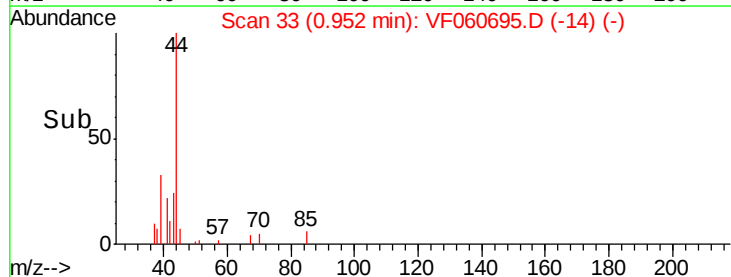
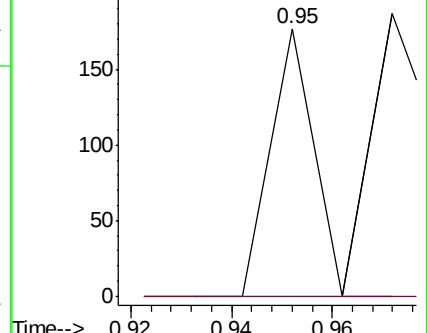
85 100

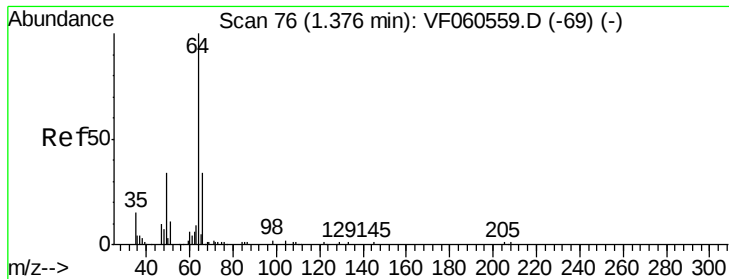
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. -0.02 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

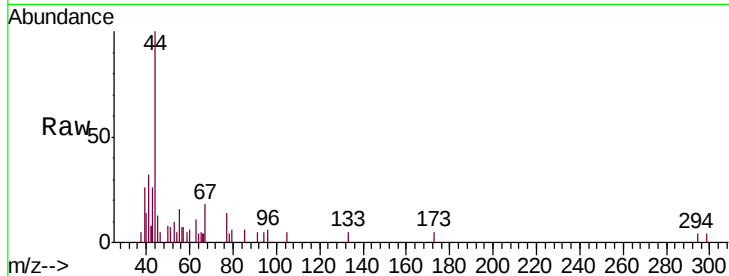
TP-2-S

Tgt Ion: 64 Resp: 66

Ion Ratio Lower Upper

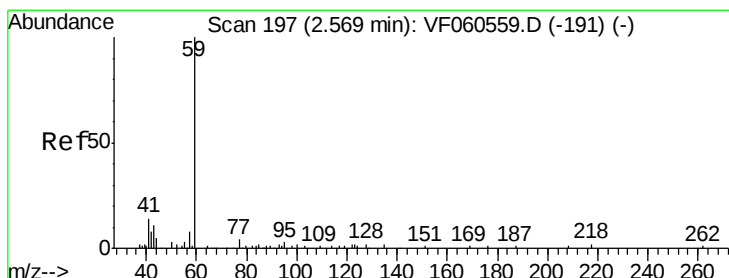
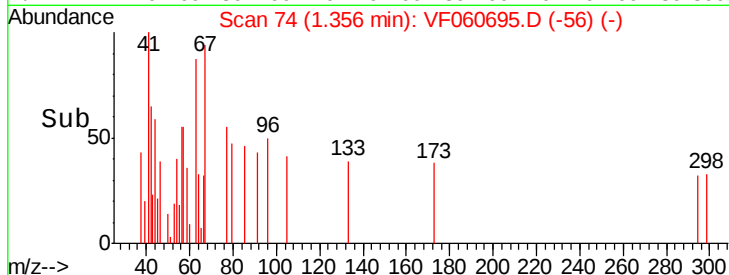
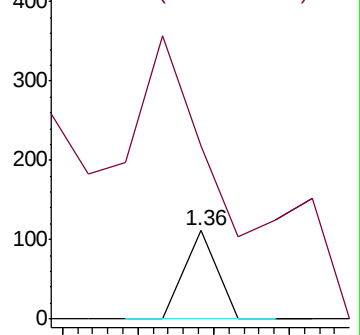
64 100

66 196.4 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: 2.55 min Scan# 195

Delta R.T. -0.02 min

Lab File: VF060695.D

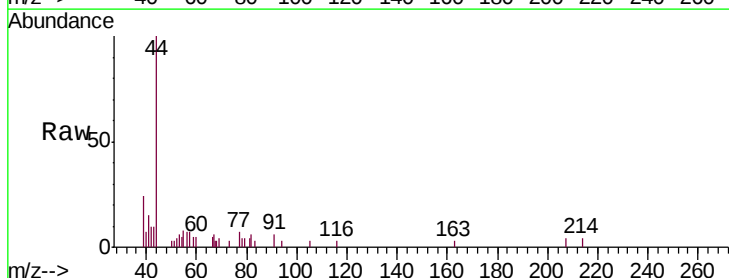
Acq: 12 Nov 2018 20:29

Tgt Ion: 59 Resp: 432

Ion Ratio Lower Upper

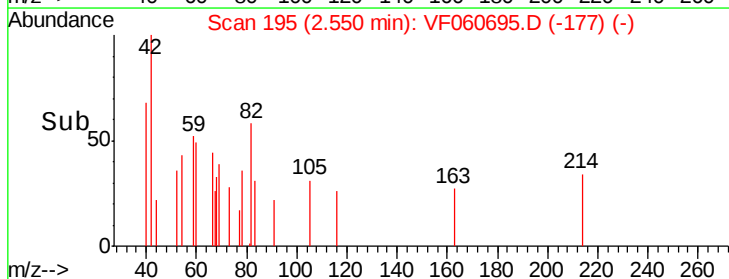
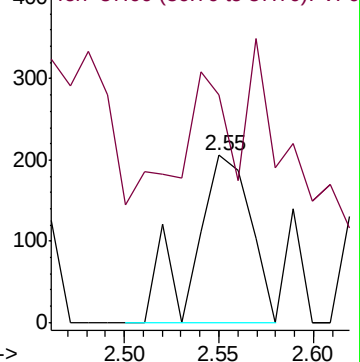
59 100

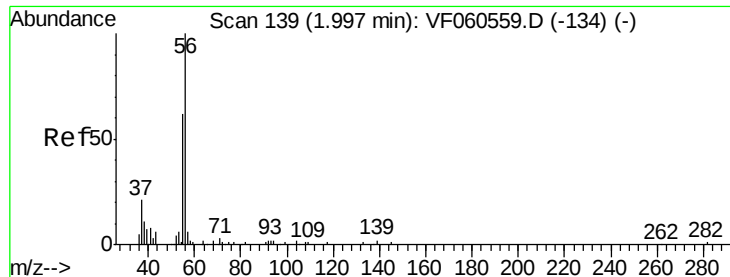
57 135.9 19.0 28.4#



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: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

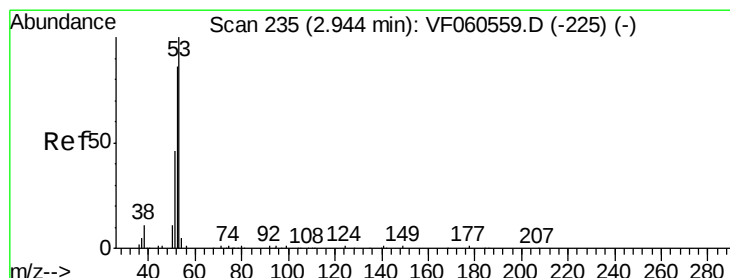
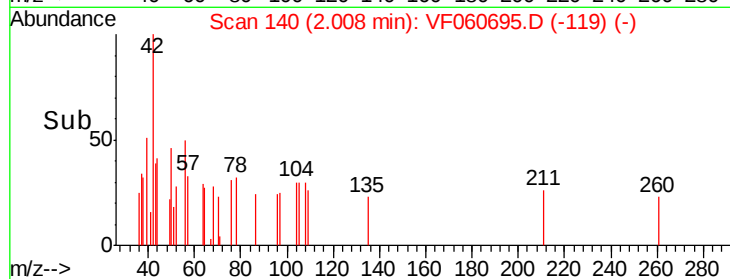
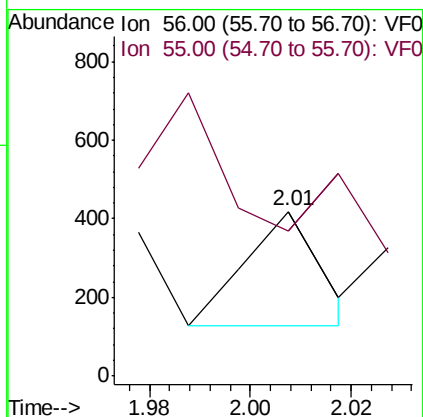
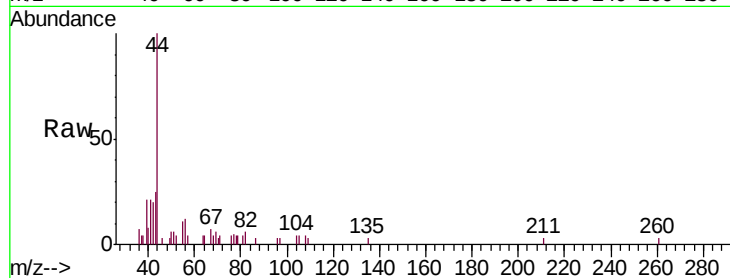
Instrument :
MSVOA_F
ClientSampled :
TP-2-S

Tgt Ion: 56 Resp: 299

Ion Ratio Lower Upper

56 100

55 88.0 61.8 92.6



#15

Acrylonitrile

Concen: 1.129 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

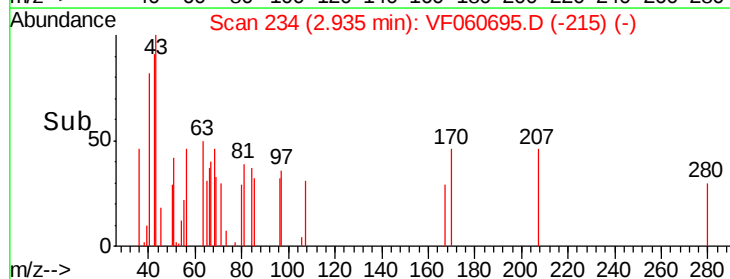
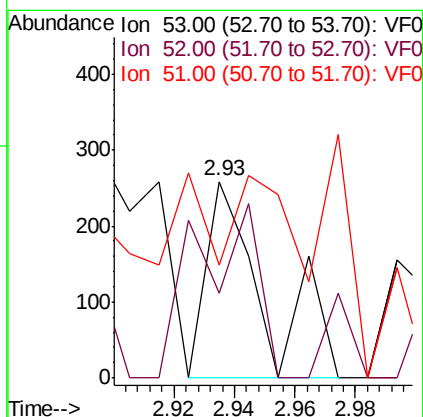
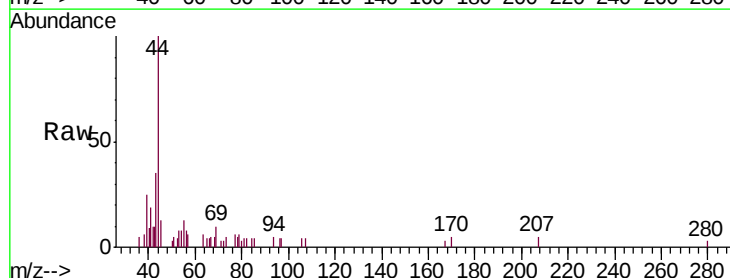
Tgt Ion: 53 Resp: 343

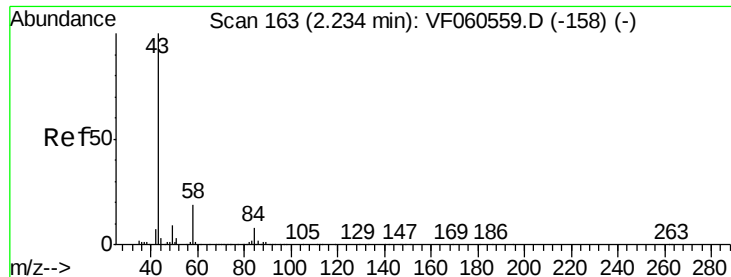
Ion Ratio Lower Upper

53 100

52 42.9 68.5 102.7#

51 57.5 38.2 57.2#





#16

Acetone

Concen: 34.280 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

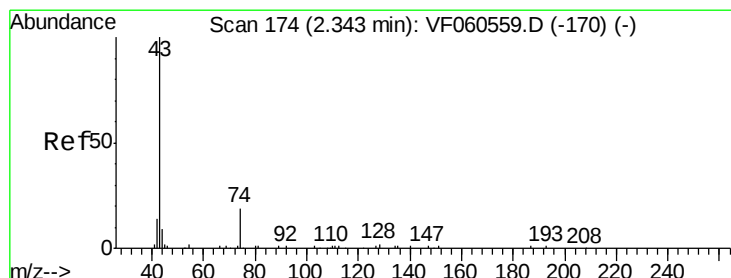
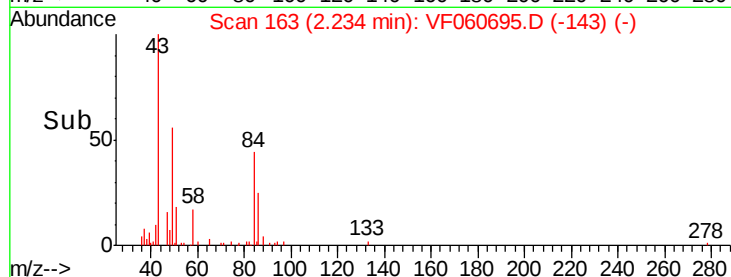
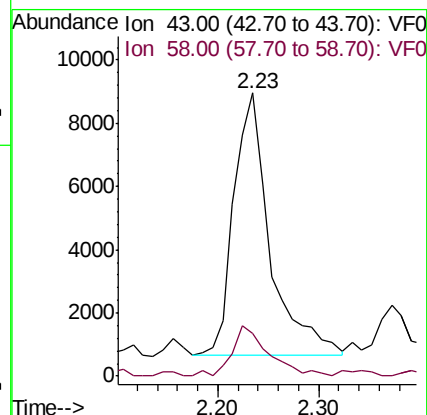
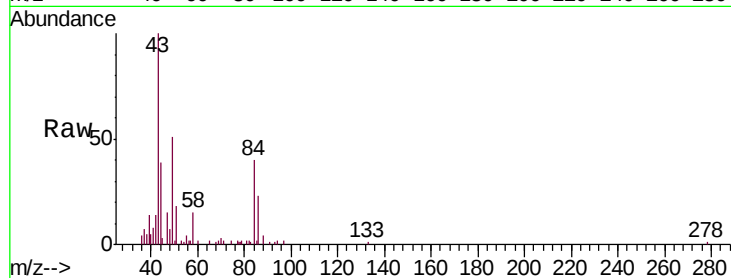
TP-2-S

Tgt Ion: 43 Resp: 20590

Ion Ratio Lower Upper

43 100

58 14.9 14.6 22.0



#18

Methyl Acetate

Concen: 3.088 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF060695.D

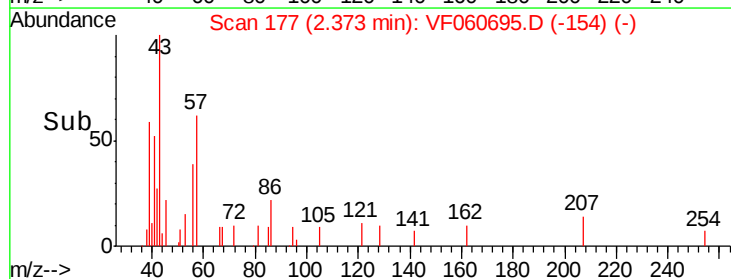
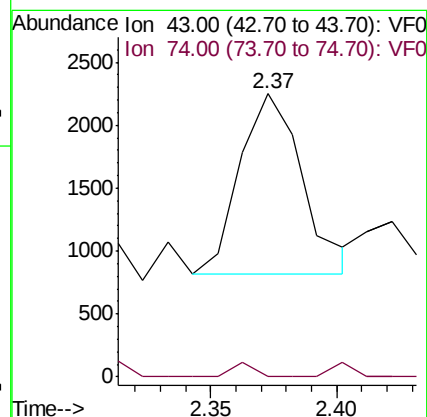
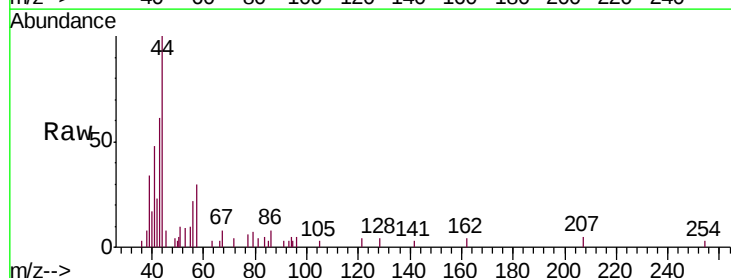
Acq: 12 Nov 2018 20:29

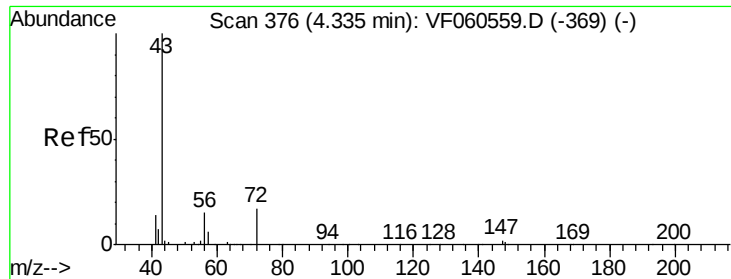
Tgt Ion: 43 Resp: 2458

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#





#25

2-Butanone

Concen: Below Cal

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

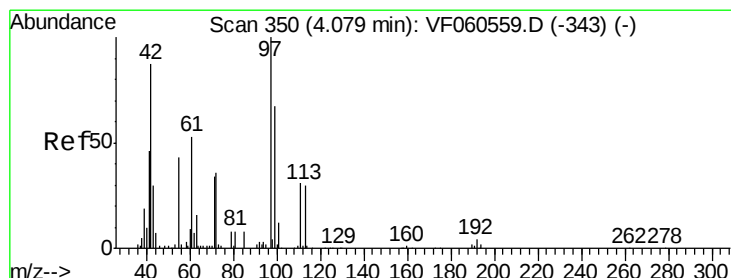
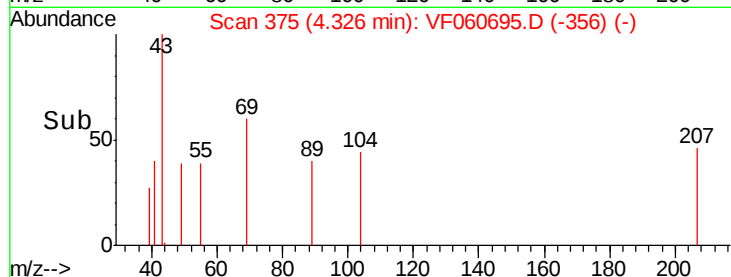
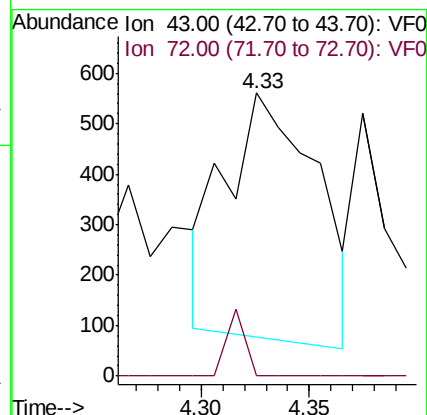
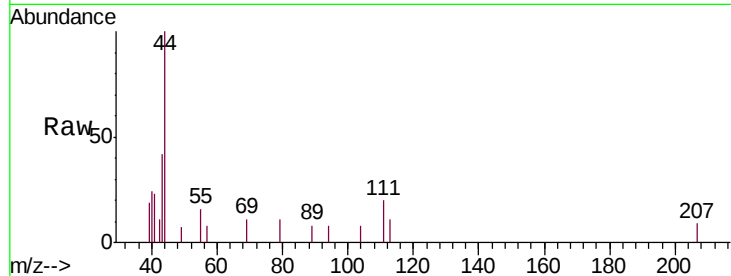
TP-2-S

Tgt Ion: 43 Resp: 1431

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

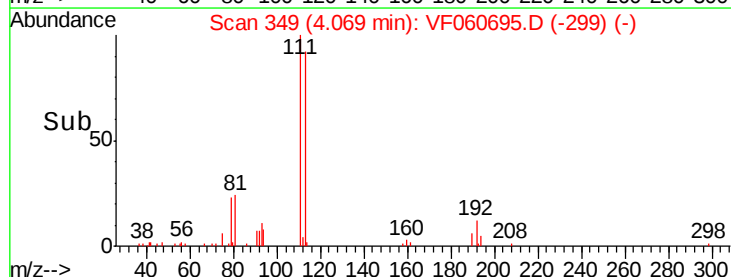
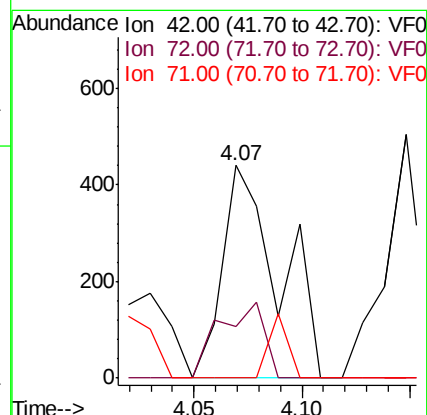
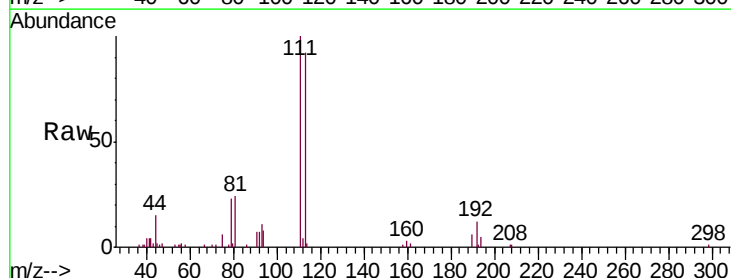
Tgt Ion: 42 Resp: 802

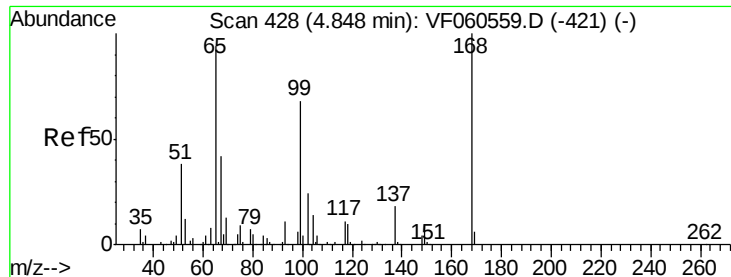
Ion Ratio Lower Upper

42 100

72 28.3 31.4 47.0#

71 9.9 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 55.780 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampled :

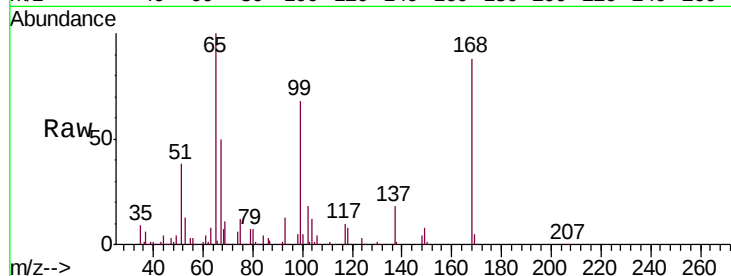
TP-2-S

Tgt Ion: 65 Resp: 142182

Ion Ratio Lower Upper

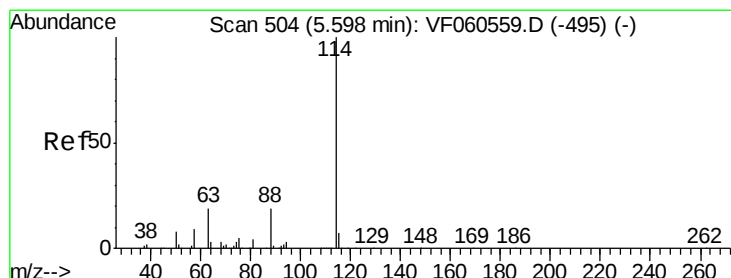
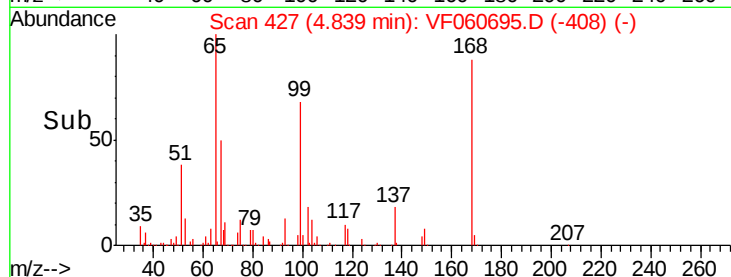
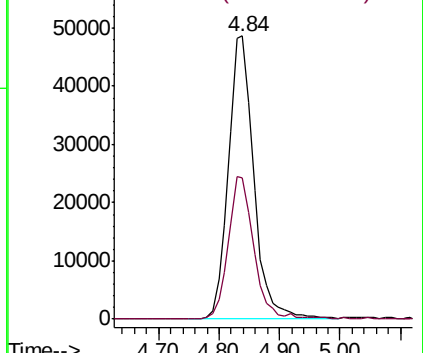
65 100

67 50.1 0.0 101.8



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: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

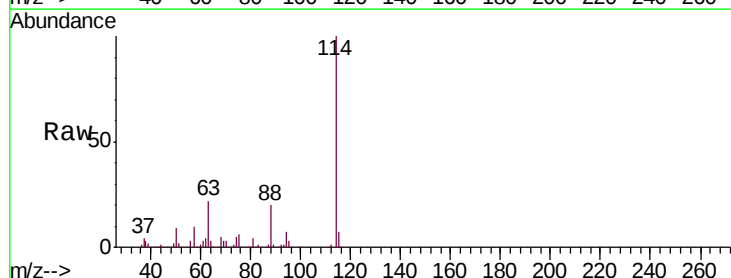
Tgt Ion: 114 Resp: 416944

Ion Ratio Lower Upper

114 100

63 21.7 0.0 39.0

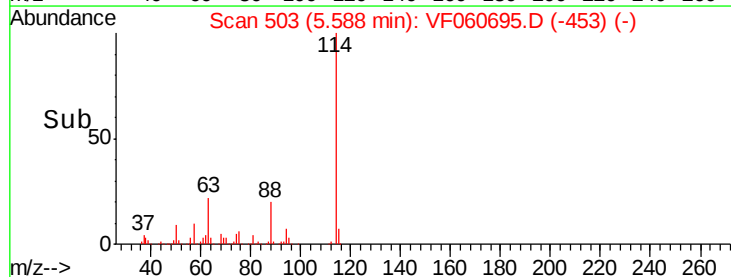
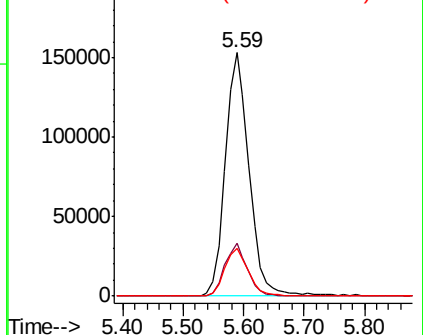
88 19.5 0.0 38.2

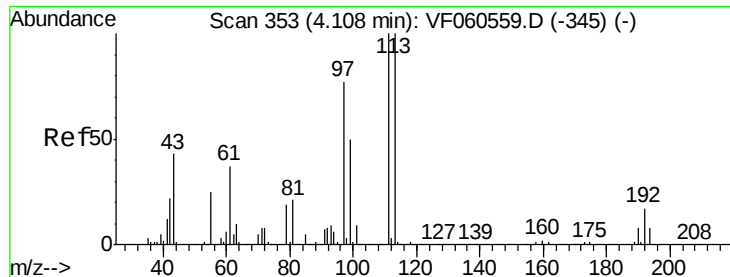


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

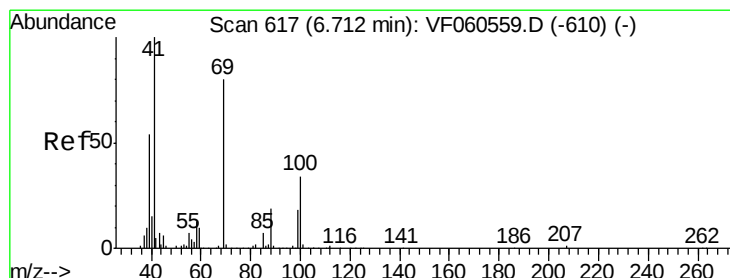
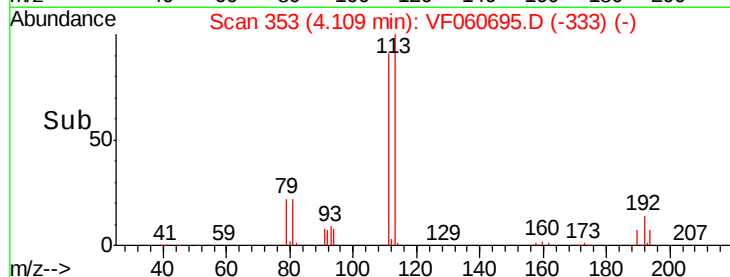
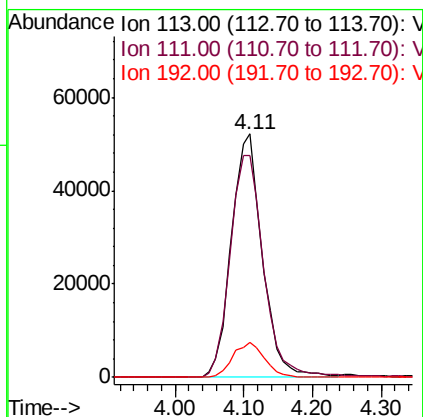
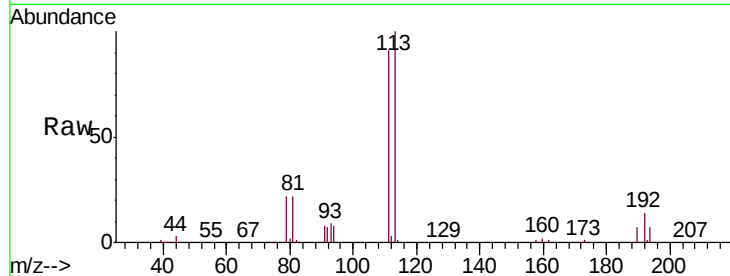




#35
Dibromofluoromethane
Concen: 50.730 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060695.D
Acq: 12 Nov 2018 20:29

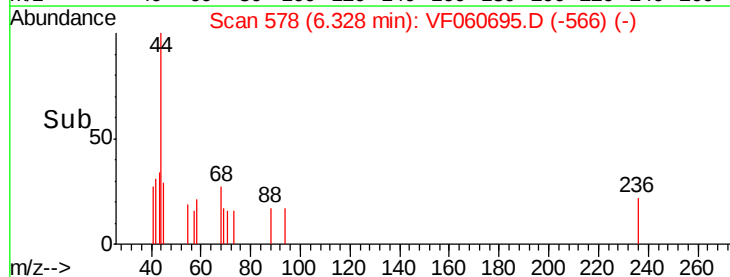
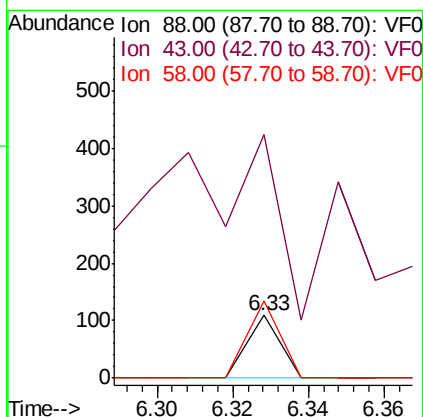
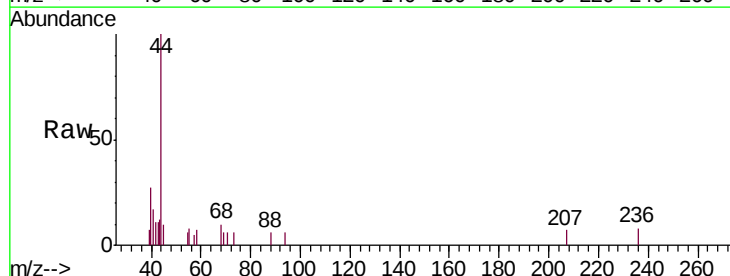
Instrument :
MSVOA_F
ClientSampleId :
TP-2-S

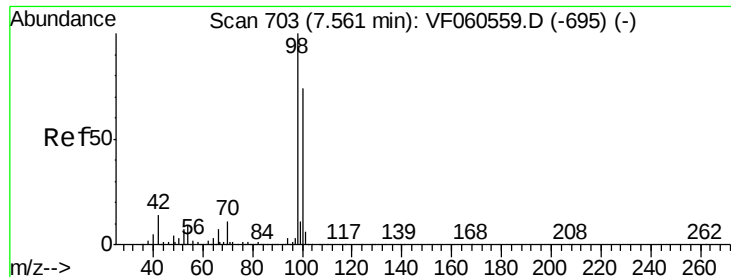
Tgt Ion:113 Resp: 163417
Ion Ratio Lower Upper
113 100
111 91.3 79.9 119.9
192 14.5 13.3 19.9



#49
1,4-Dioxane
Concen: 3.547 ug/l
RT: 6.33 min Scan# 578
Delta R.T. -0.38 min
Lab File: VF060695.D
Acq: 12 Nov 2018 20:29

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 389.0 61.2 91.8#
58 123.9 56.9 85.3#





#50

Toluene-d8

Concen: 40.405 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

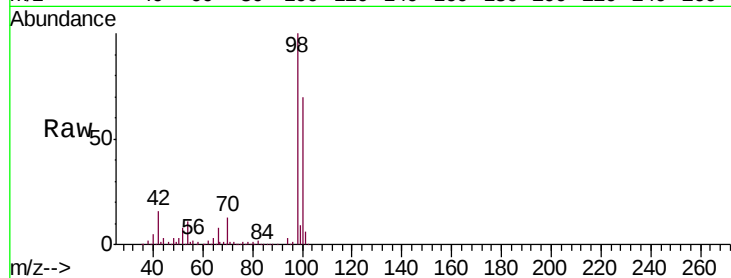
TP-2-S

Tgt Ion: 98 Resp: 385560

Ion Ratio Lower Upper

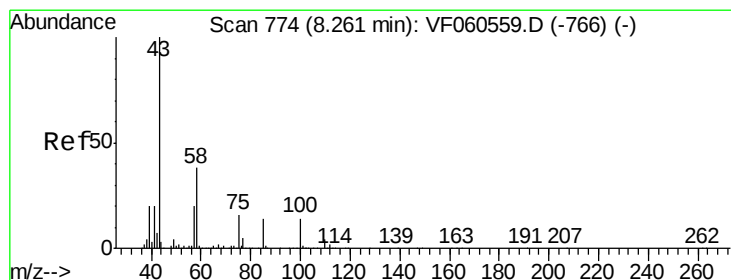
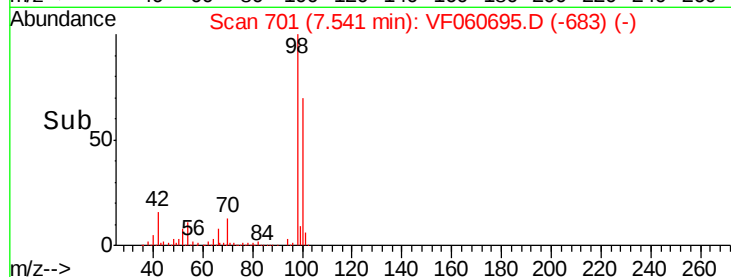
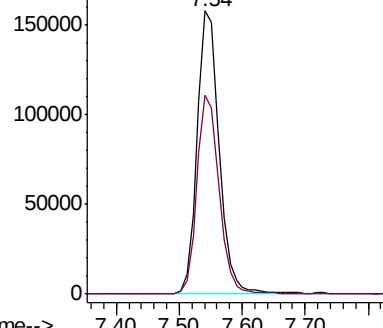
98 100

100 70.4 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: 1.889 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060695.D

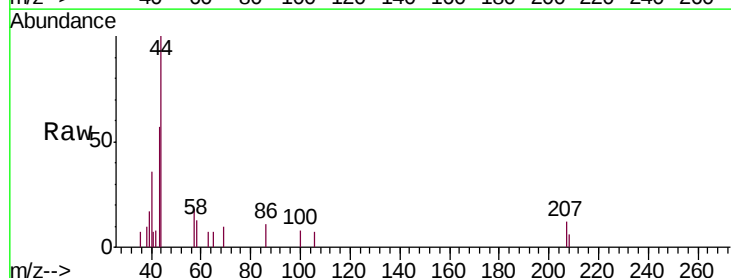
Acq: 12 Nov 2018 20:29

Tgt Ion: 43 Resp: 3541

Ion Ratio Lower Upper

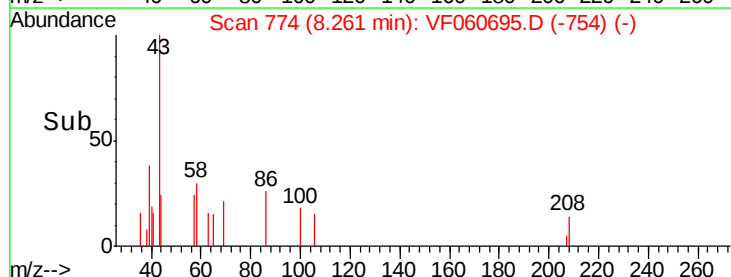
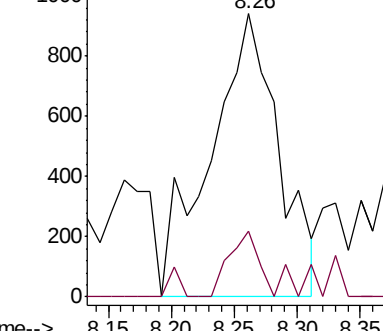
43 100

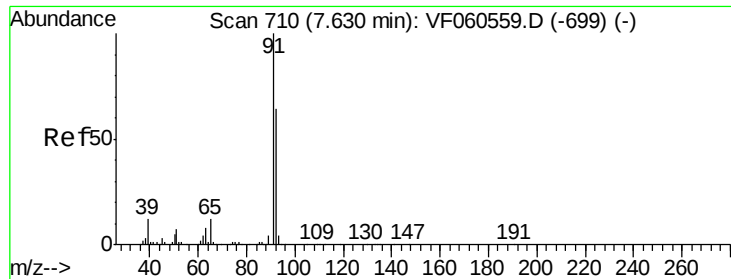
58 23.2 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

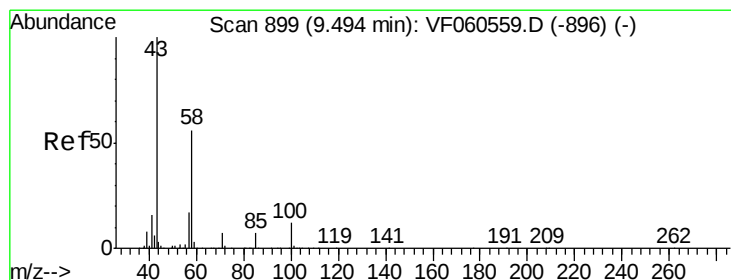
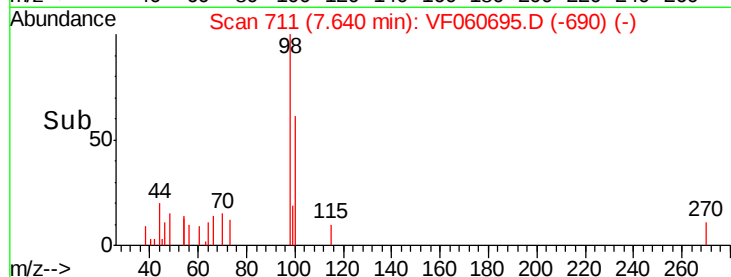
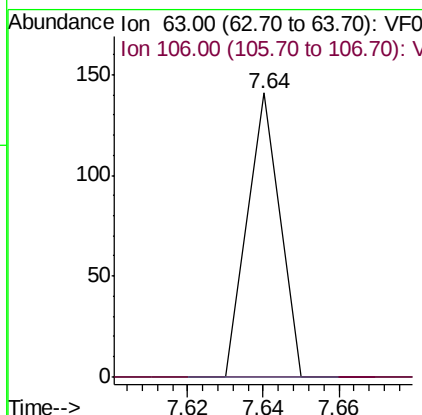
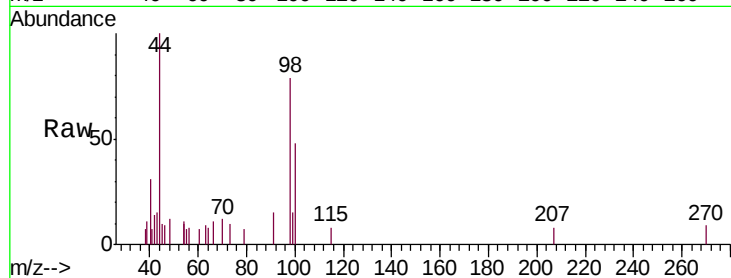




#58
 2-Chloroethyl Vinyl ether
 Concen: Below Cal
 RT: 7.64 min Scan# 711
 Delta R.T. 0.01 min
 Lab File: VF060695.D
 Acq: 12 Nov 2018 20:29

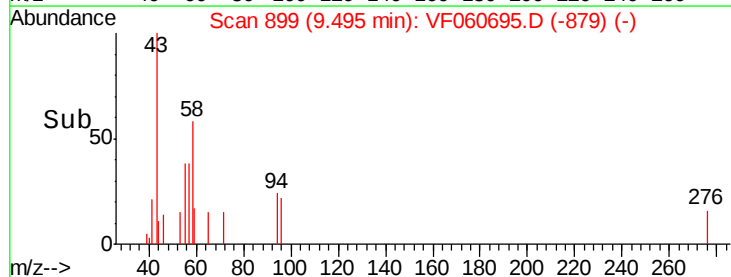
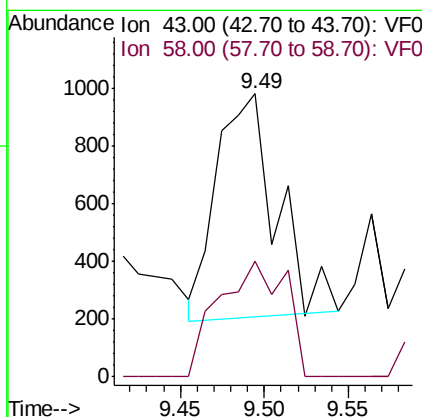
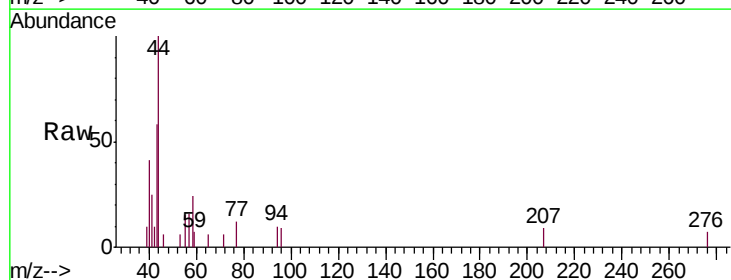
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2-S

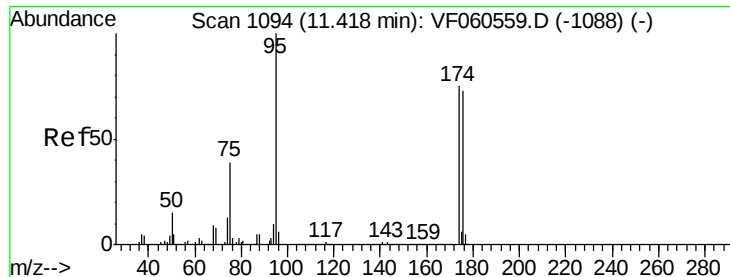
Tgt Ion: 63 Resp: 83
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.49 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VF060695.D
 Acq: 12 Nov 2018 20:29

Tgt Ion: 43 Resp: 1906
 Ion Ratio Lower Upper
 43 100
 58 40.9 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 46.883 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampled :

TP-2-S

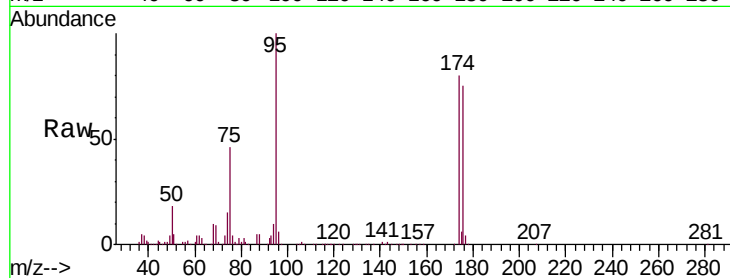
Tgt Ion: 95 Resp: 195689

Ion Ratio Lower Upper

95 100

174 79.6 0.0 149.0

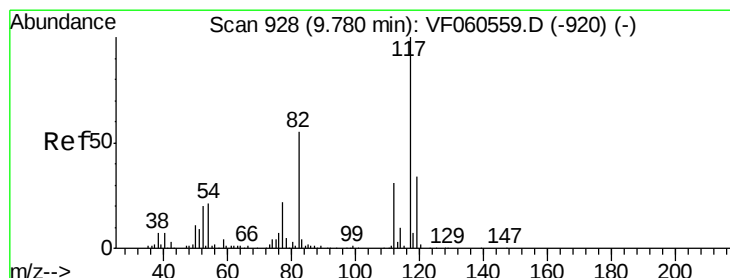
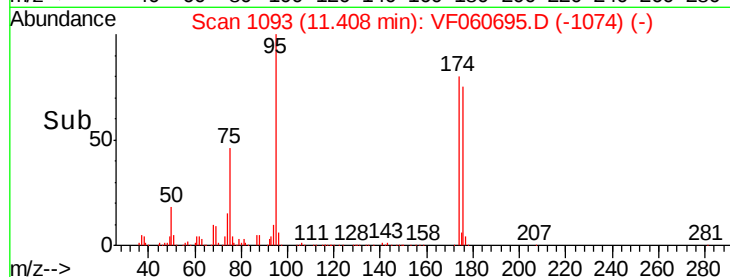
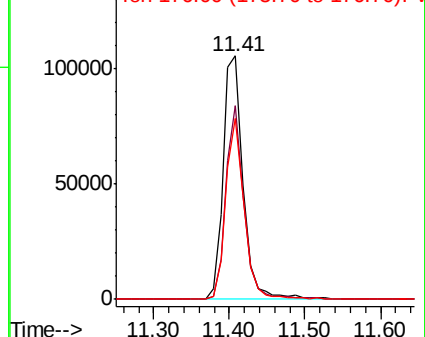
176 74.6 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

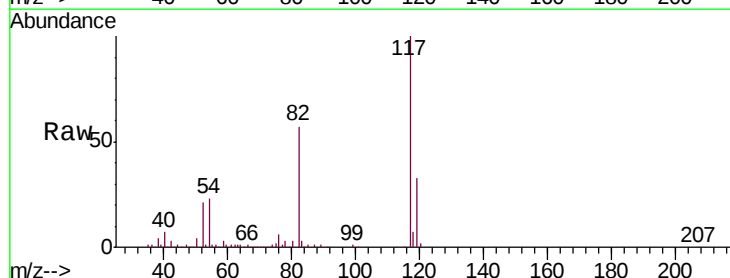
Tgt Ion: 117 Resp: 395664

Ion Ratio Lower Upper

117 100

82 57.4 43.9 65.9

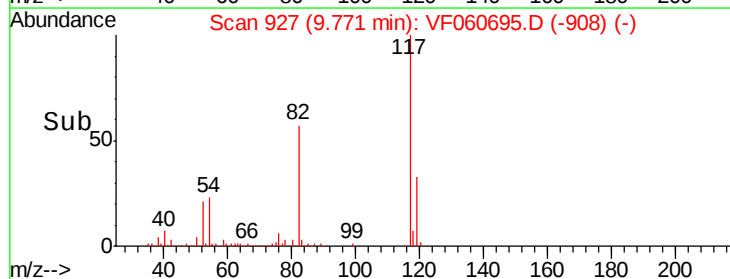
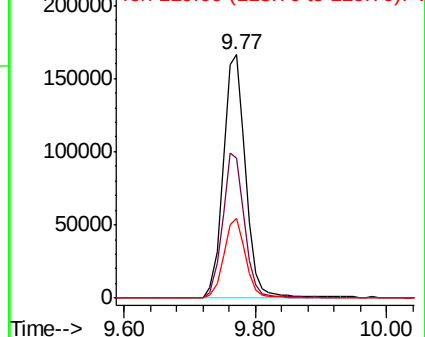
119 32.7 27.4 41.0

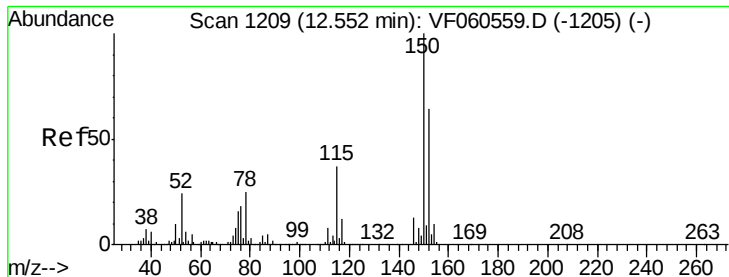


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Instrument :

MSVOA_F

ClientSampleId :

TP-2-S

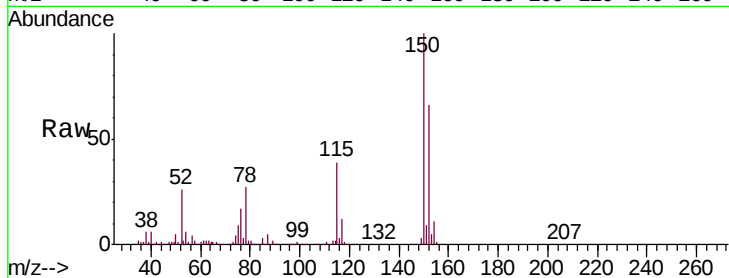
Tgt Ion:152 Resp: 220351

Ion Ratio Lower Upper

152 100

115 58.9 29.6 88.8

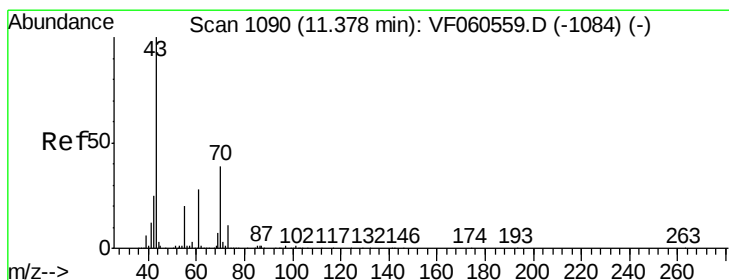
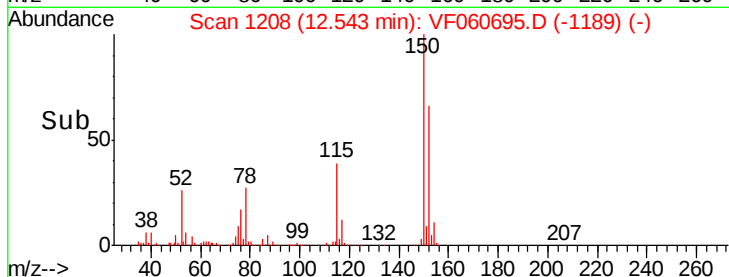
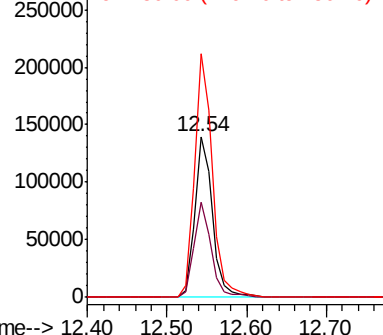
150 151.5 0.0 315.6



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-amil acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060695.D

Acq: 12 Nov 2018 20:29

Tgt Ion: 43 Resp: 1670

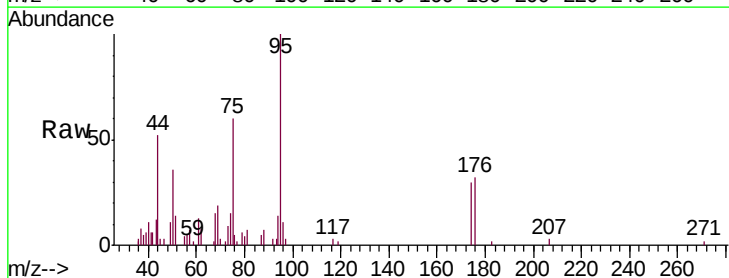
Ion Ratio Lower Upper

43 100

70 28.4 30.9 46.3#

55 32.1 16.6 24.8#

61 105.9 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

