

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061881.D
 Acq On : 9 Mar 2019 00:03
 Operator : VA/AP
 Sample : K1787-01RE
 Misc : 4.72g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1RE

Quant Time: Mar 09 00:48:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	16707	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	20007	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	15036	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	4567	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	3231	26.56	ug/l	-0.01
Spiked Amount			Recovery	=	53.12%	
35) Dibromofluoromethane	4.11	113	5942	42.56	ug/l	-0.01
Spiked Amount			Recovery	=	85.12%	
50) Toluene-d8	7.54	98	23215	55.94	ug/l	-0.02
Spiked Amount			Recovery	=	111.88%	
62) 4-Bromofluorobenzene	11.41	95	5711	35.13	ug/l	-0.01
Spiked Amount			Recovery	=	70.26%	

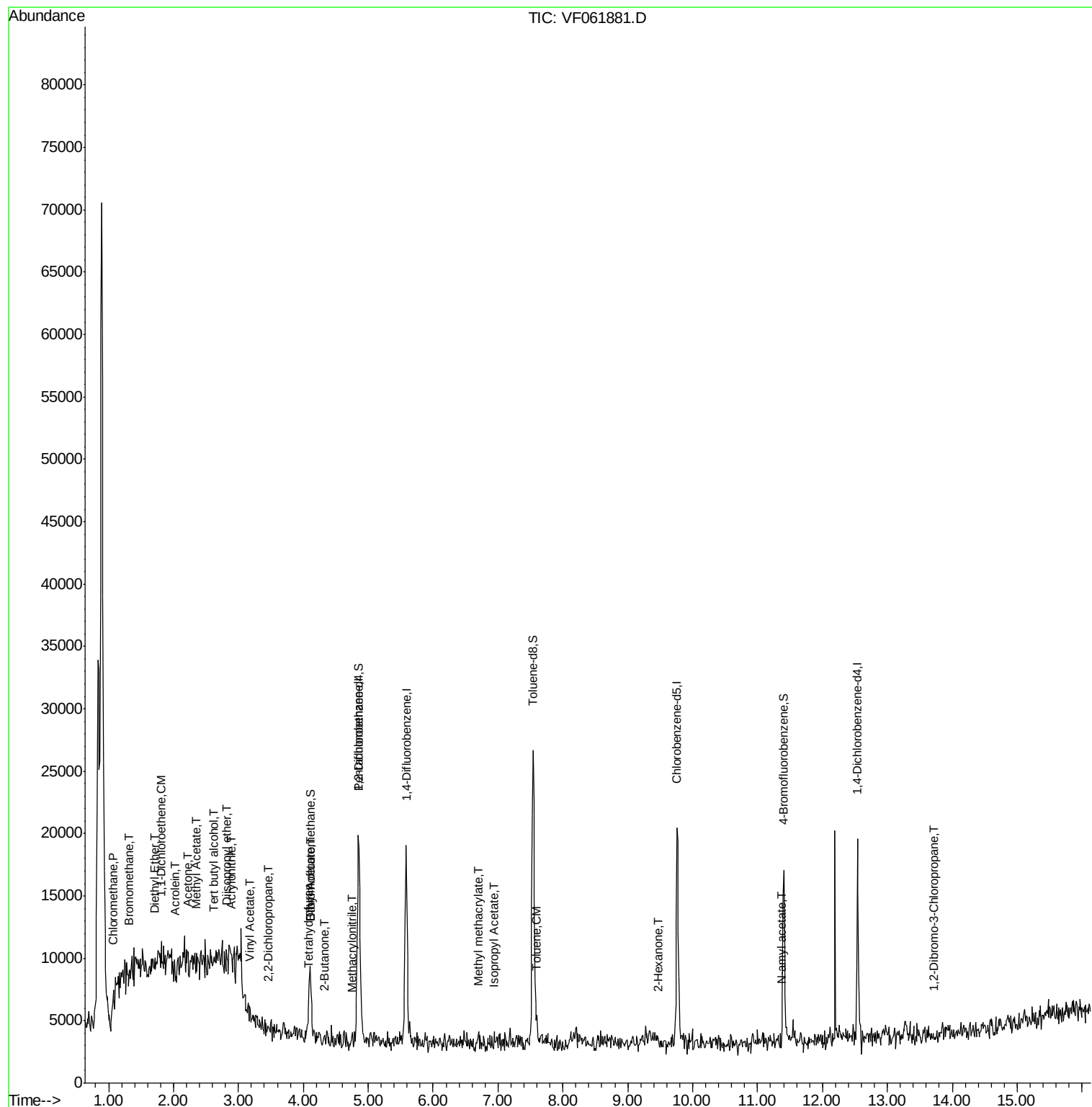
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.06	50	246	1.238	ug/l #	45
5) Bromomethane	1.33	94	269	2.092	ug/l #	3
8) Diethyl Ether	1.72	74	68	1.297	ug/l #	1
11) Tert butyl alcohol	2.62	59	64	9.268	ug/l #	64
12) 1,1-Dichloroethene	1.81	96	316	2.212	ug/l #	1
13) Acrolein	2.03	56	345	39.427	ug/l	92
15) Acrylonitrile	2.90	53	289	13.142	ug/l #	16
16) Acetone	2.22	43	1726	67.724	ug/l #	50
18) Methyl Acetate	2.36	43	1056	19.576	ug/l #	62
20) Methylene Chloride	2.18	84	731	Below Cal	#	69
22) Diisopropyl ether	2.81	45	1043	2.547	ug/l #	21
23) Vinyl Acetate	3.18	43	250	1.367	ug/l #	76
25) 2-Butanone	4.34	43	83	1.601	ug/l #	56
26) 2,2-Dichloropropane	3.46	77	128	1.172	ug/l #	55
29) Tetrahydrofuran	4.07	42	66	2.952	ug/l #	33
37) Ethyl Acetate	4.10	43	124	1.563	ug/l #	20
41) Methacrylonitrile	4.74	41	66	1.519	ug/l #	24
43) Isopropyl Acetate	6.94	43	106	1.084	ug/l #	42
48) Methyl methacrylate	6.69	41	104	1.681	ug/l #	31
52) Toluene	7.61	92	313	1.071	ug/l #	37
59) 2-Hexanone	9.47	43	171	3.507	ug/l #	22
74) N-amyl acetate	11.37	43	152	2.100	ug/l #	42
92) 1,2-Dibromo-3-Chloropropan	13.72	75	65	10.391	ug/l #	1

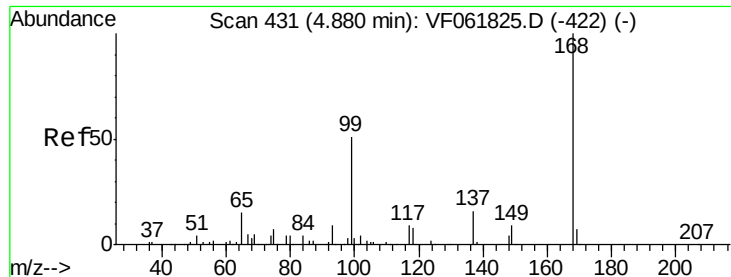
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

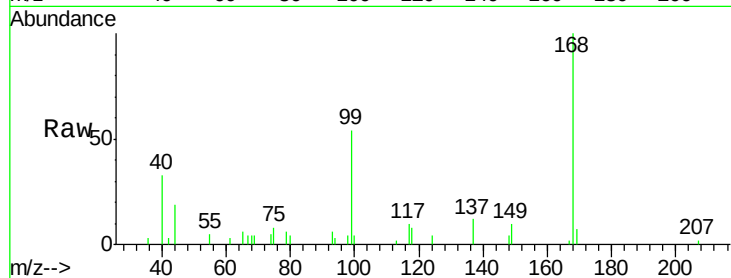
SP-1RE

Tot Ion:168 Resp: 16707

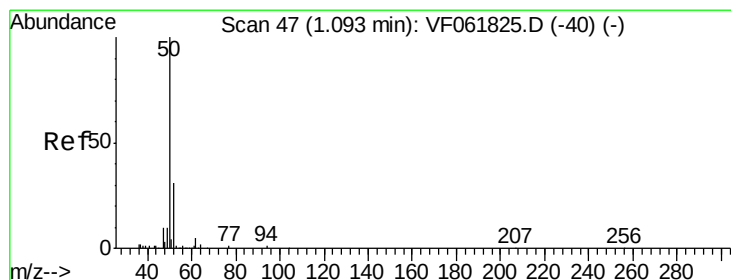
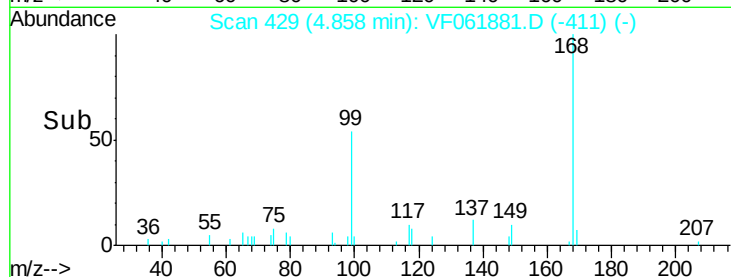
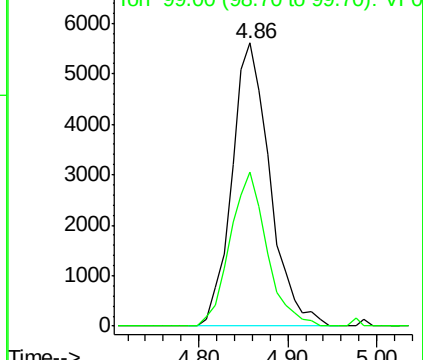
Ion Ratio Lower Upper

168 100

99 54.5 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 1.238 ug/l

RT: 1.06 min Scan# 44

Delta R.T. -0.03 min

Lab File: VF061881.D

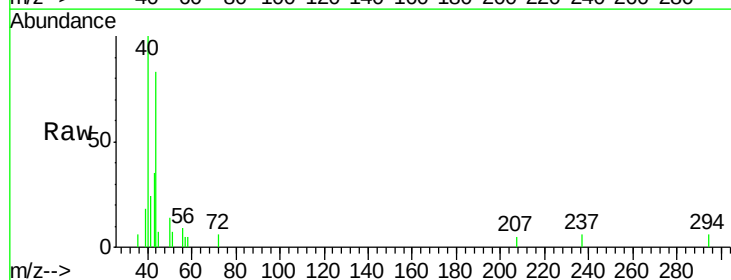
Acq: 9 Mar 2019 00:03

Tgt Ion: 50 Resp: 246

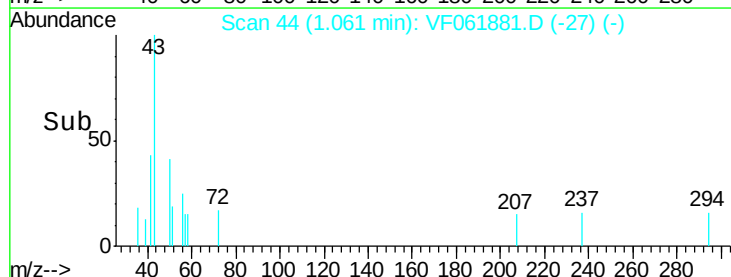
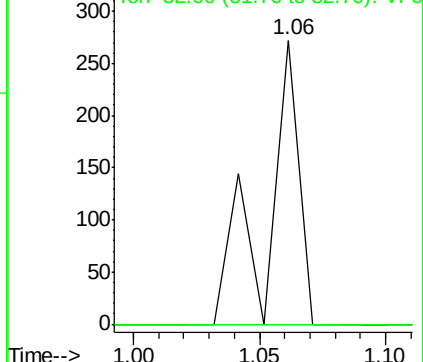
Ion Ratio Lower Upper

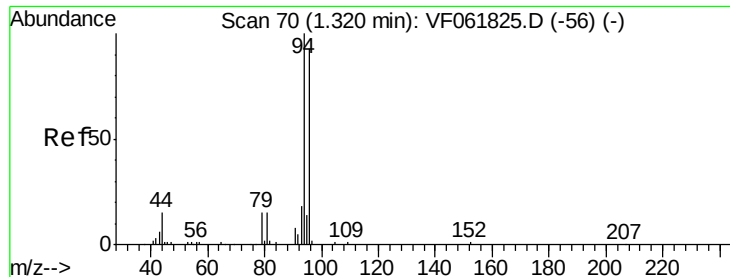
50 100

52 0.0 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 2.092 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampled :

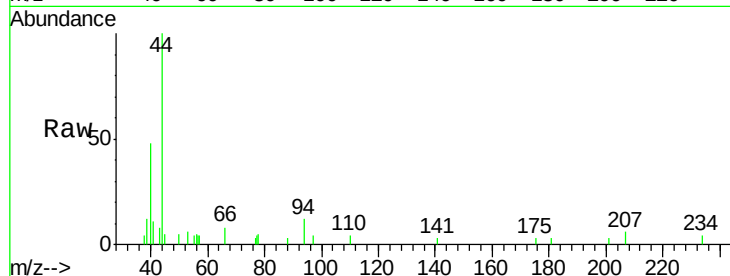
SP-1RE

Tot Ion: 94 Resp: 269

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#

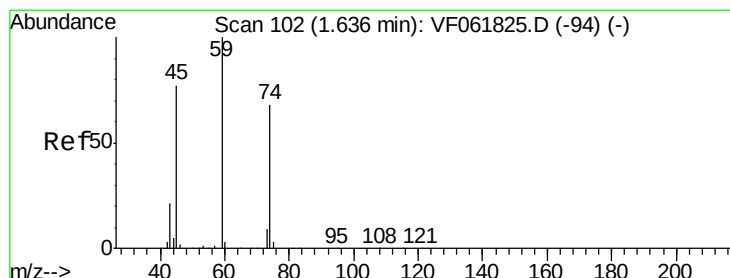
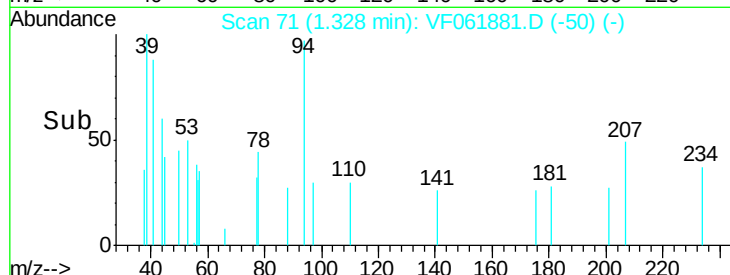
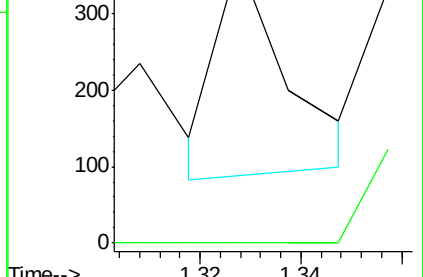


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

1.32 1.34



#8

Diethyl Ether

Concen: 1.297 ug/l

RT: 1.72 min Scan# 111

Delta R.T. 0.09 min

Lab File: VF061881.D

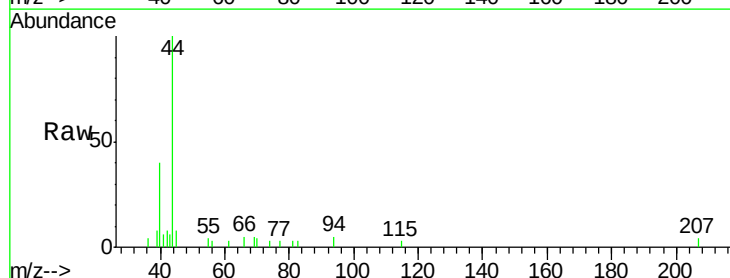
Acq: 9 Mar 2019 00:03

Tgt Ion: 74 Resp: 68

Ion Ratio Lower Upper

74 100

45 261.7 57.2 171.6#

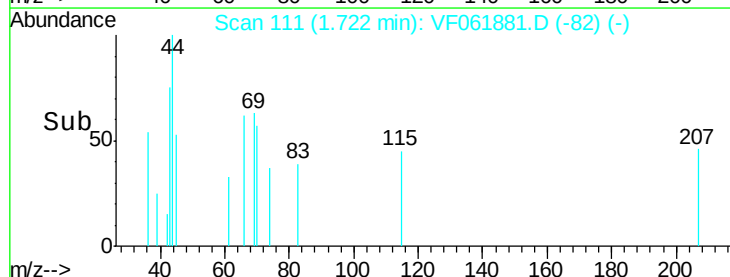
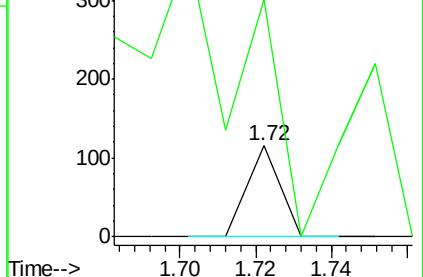


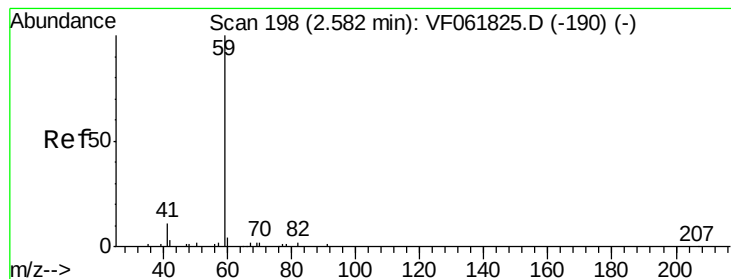
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.72

1.70 1.74





#11

Tert butyl alcohol

Concen: 9.268 ug/l

RT: 2.62 min Scan# 202

Delta R.T. 0.04 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampled :

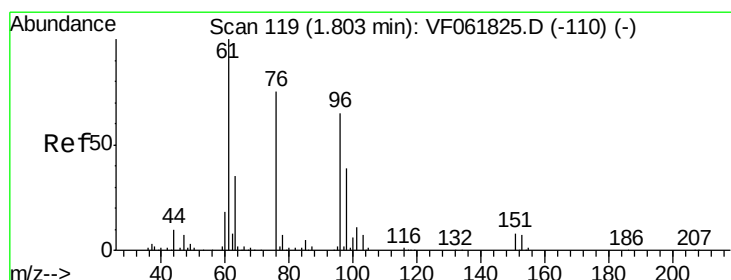
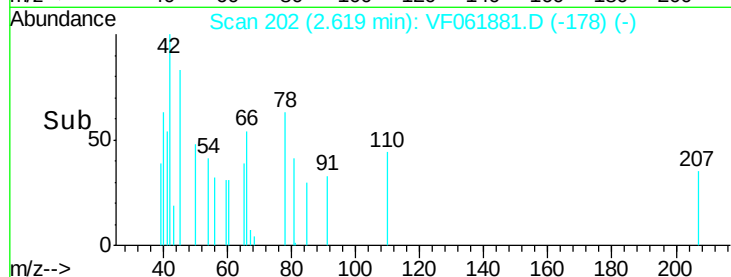
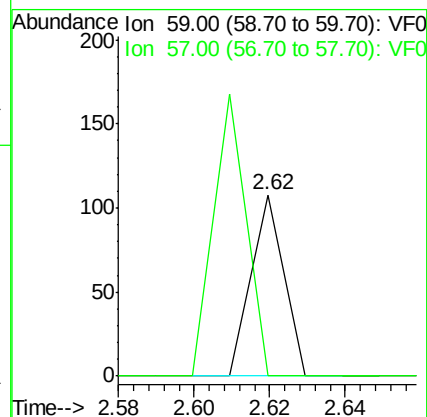
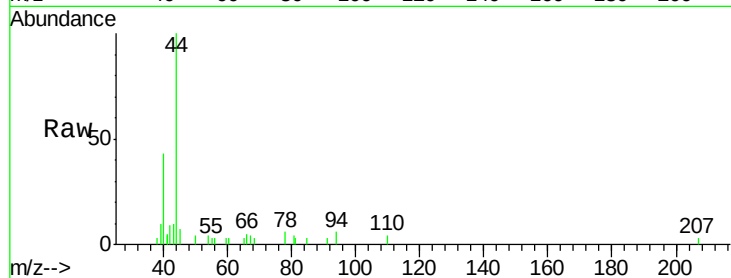
SP-1RE

Tot Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

57 0.0 11.8 17.6#



#12

1,1-Dichloroethene

Concen: 2.212 ug/l

RT: 1.81 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

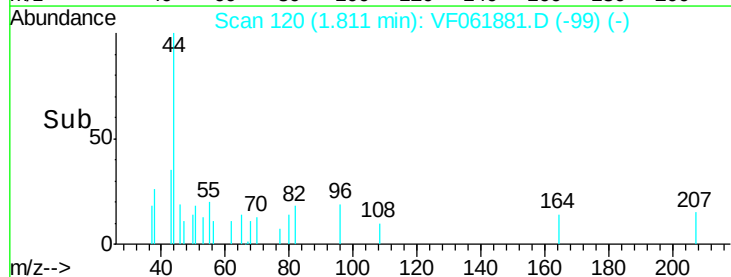
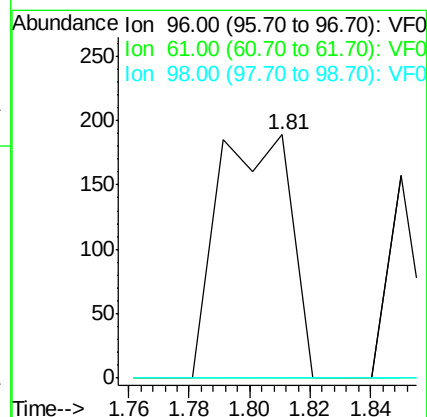
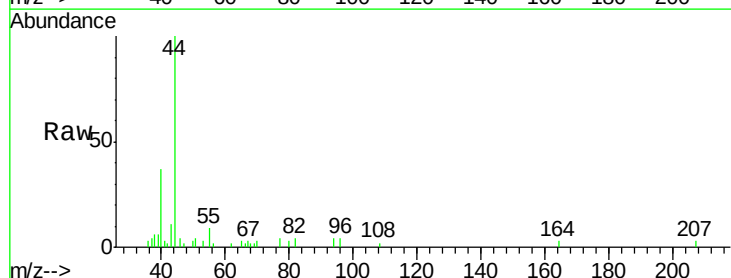
Tgt Ion: 96 Resp: 316

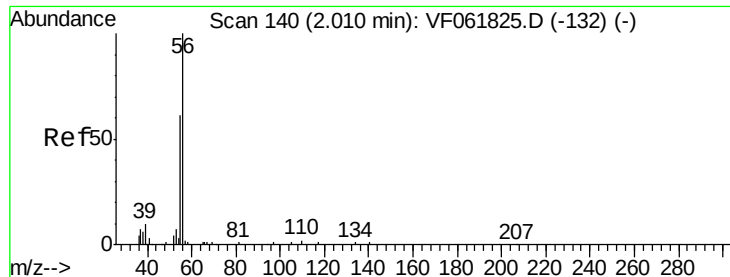
Ion Ratio Lower Upper

96 100

61 0.0 122.5 183.7#

98 0.0 47.1 70.7#





#13

Acrolein

Concen: 39.427 ug/l

RT: 2.03 min Scan# 142

Delta R.T. 0.02 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

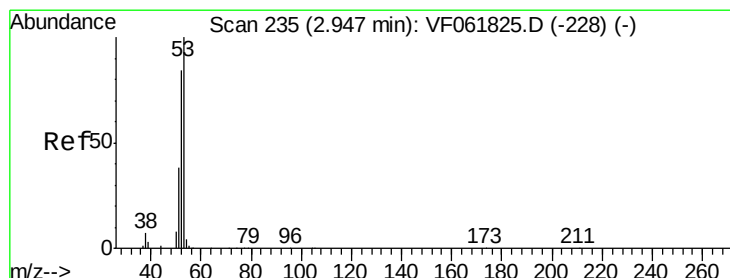
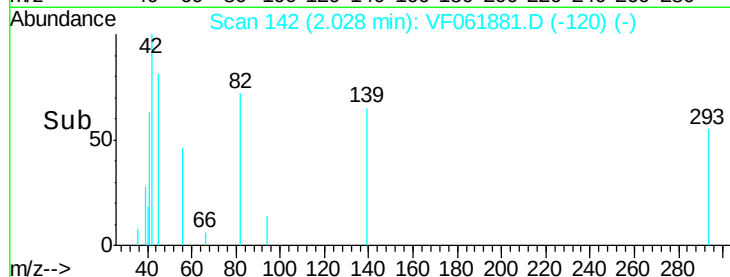
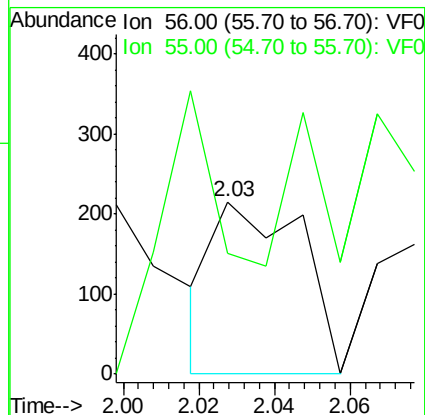
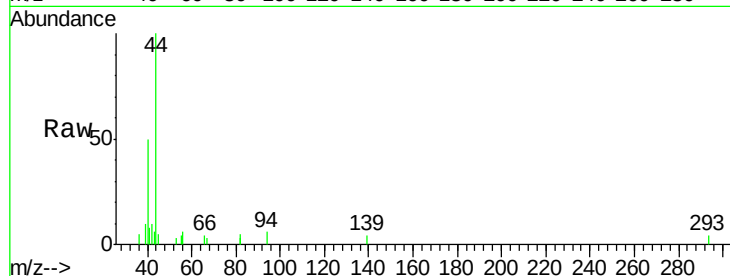
SP-1RE

Tot Ion: 56 Resp: 345

Ion Ratio Lower Upper

56 100

55 70.2 51.3 76.9



#15

Acrylonitrile

Concen: 13.142 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.05 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

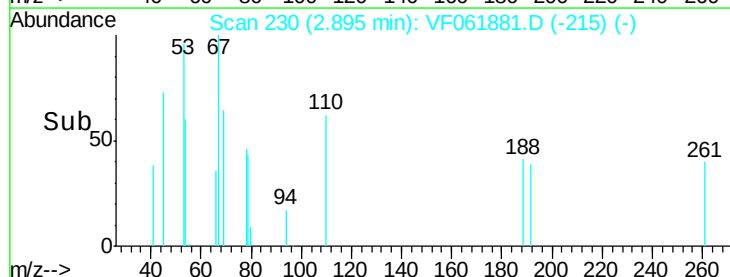
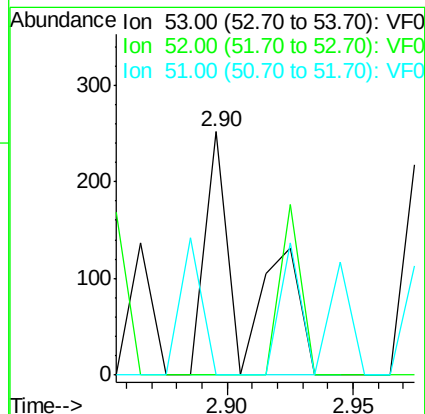
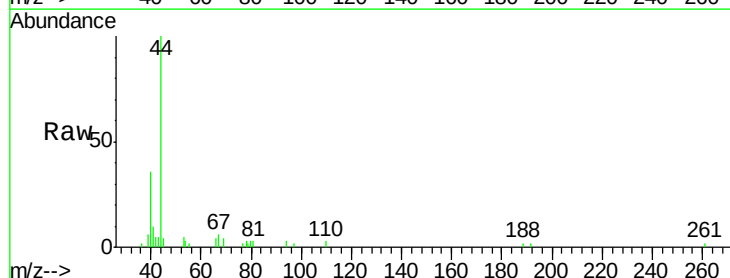
Tgt Ion: 53 Resp: 289

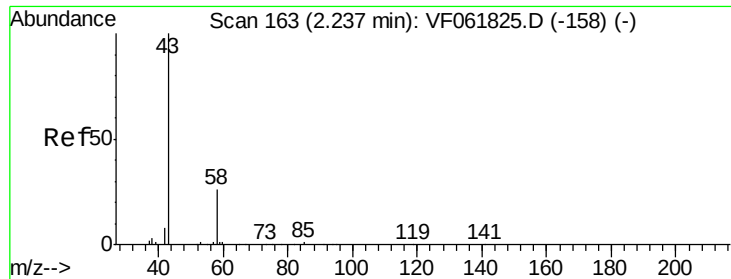
Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 0.0 30.7 46.1#





#16

Acetone

Concen: 67.724 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

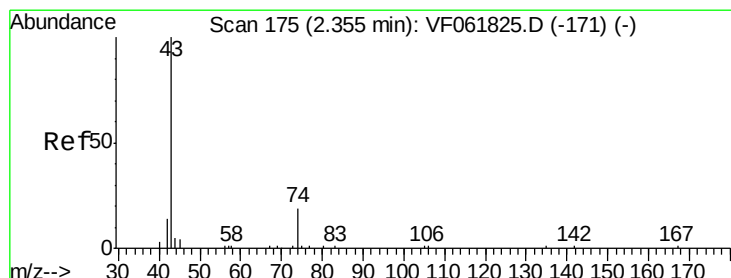
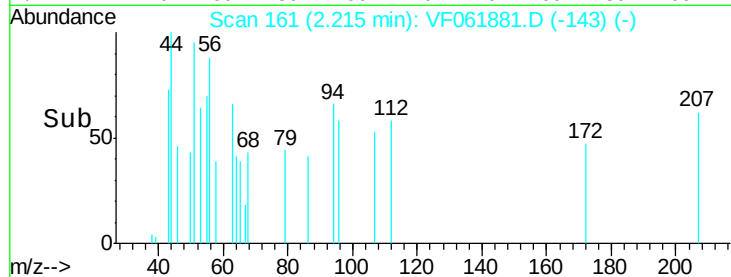
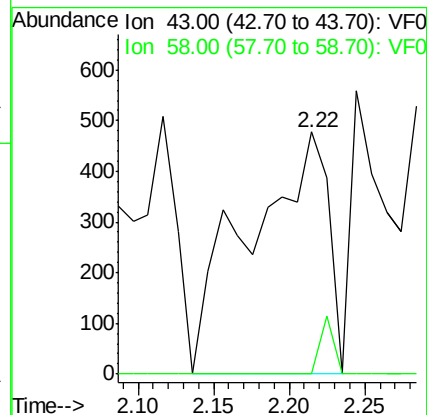
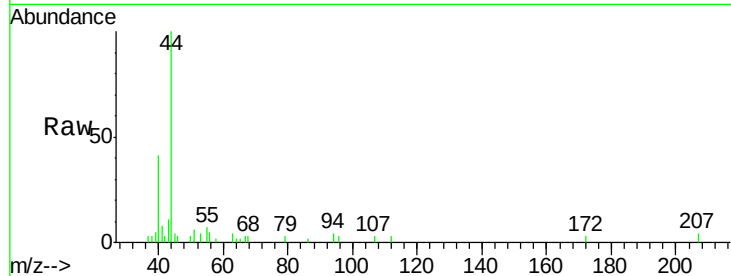
SP-1RE

Tot Ion: 43 Resp: 1726

Ion Ratio Lower Upper

43 100

58 0.0 20.3 30.5#



#18

Methyl Acetate

Concen: 19.576 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061881.D

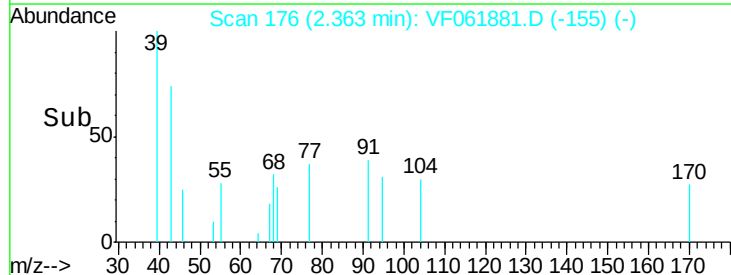
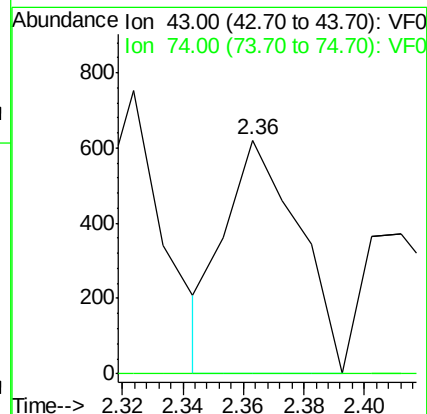
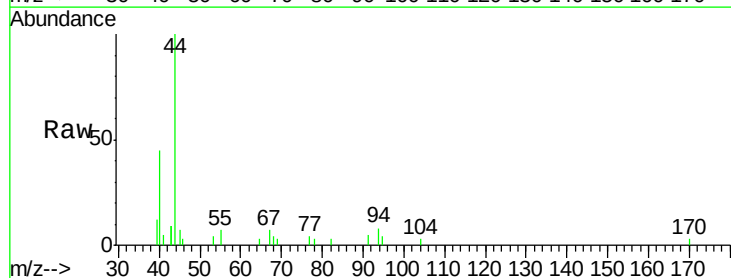
Acq: 9 Mar 2019 00:03

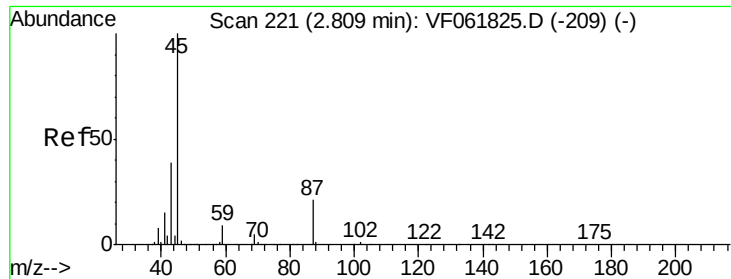
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

74 0.0 13.2 19.8#

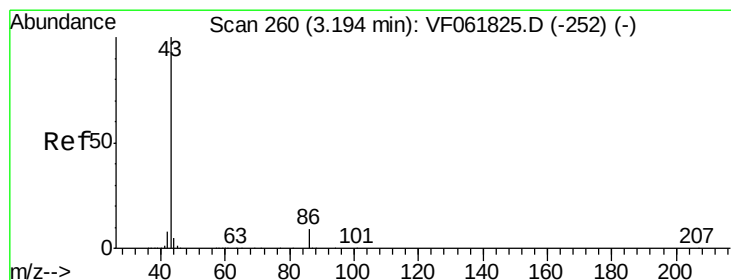
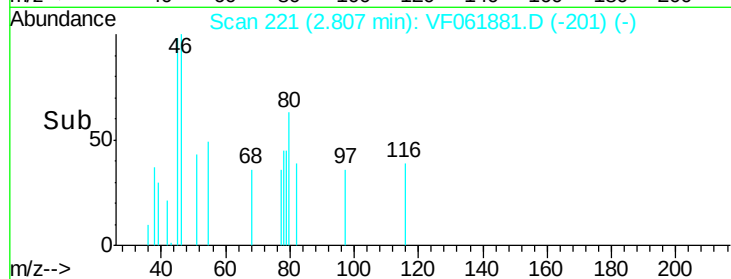
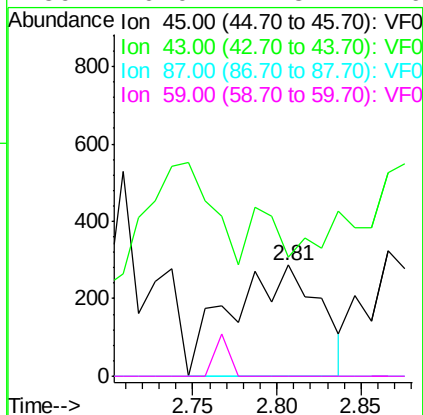
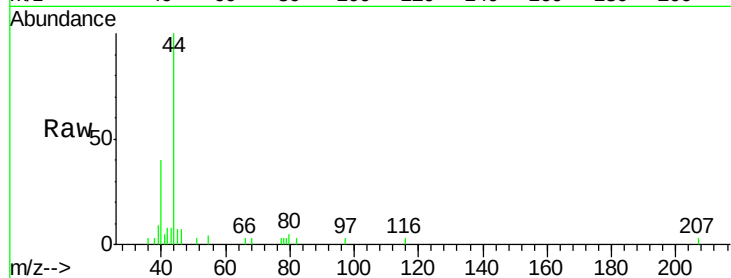




#22
Diisopropyl ether
Concen: 2.547 ug/l
RT: 2.81 min Scan# 221
Delta R.T. -0.00 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

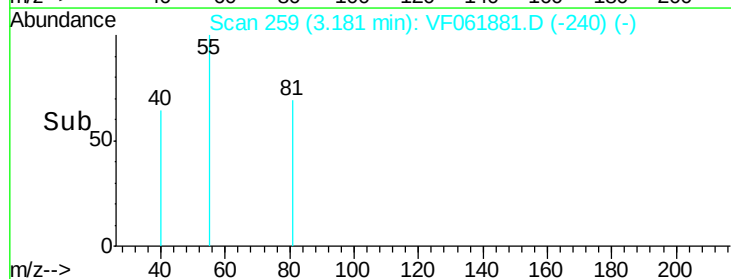
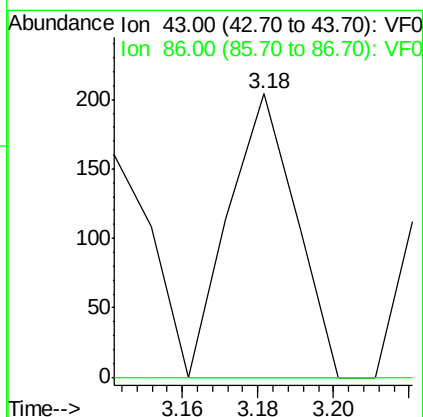
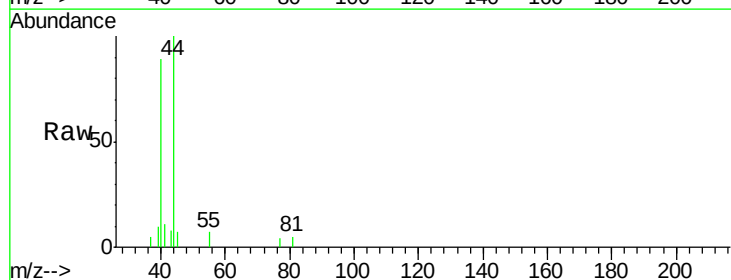
Instrument :
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SP-1RE

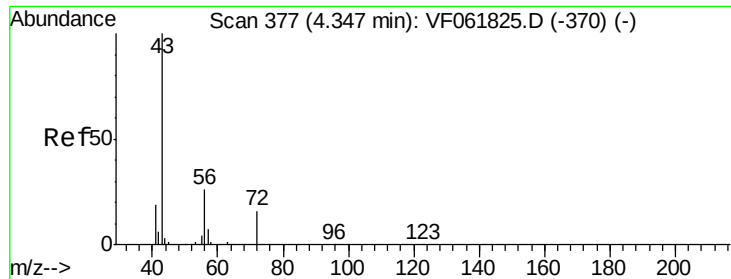
Tot Ion: 45 Resp: 1043
Ion Ratio Lower Upper
45 100
43 107.7 31.8 47.8#
87 0.0 17.1 25.7#
59 0.0 7.8 11.6#



#23
Vinyl Acetate
Concen: 1.367 ug/l
RT: 3.18 min Scan# 259
Delta R.T. -0.01 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Tgt Ion: 43 Resp: 250
Ion Ratio Lower Upper
43 100
86 0.0 7.0 10.4#





#25

2-Butanone

Concen: 1.601 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampled :

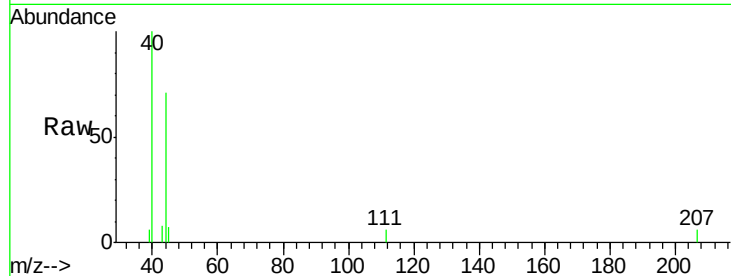
SP-1RE

Tot Ion: 43 Resp: 83

Ion Ratio Lower Upper

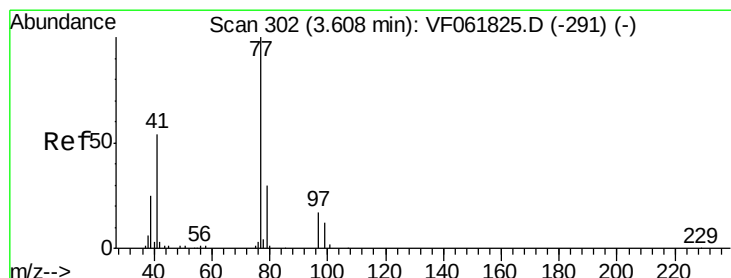
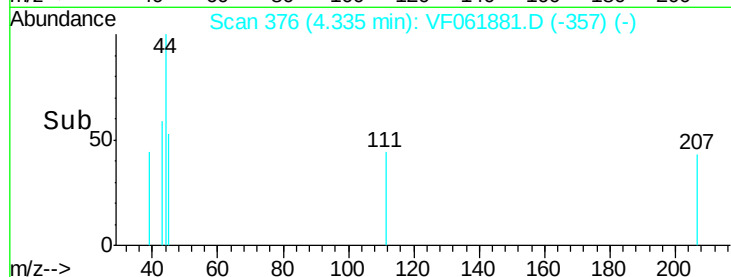
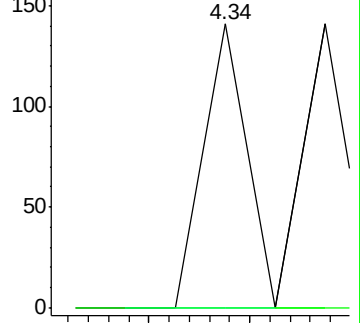
43 100

72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 1.172 ug/l

RT: 3.46 min Scan# 287

Delta R.T. -0.15 min

Lab File: VF061881.D

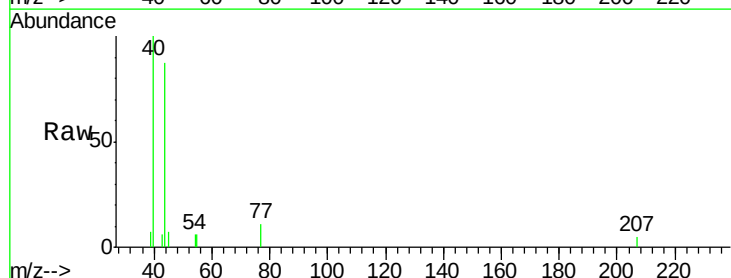
Acq: 9 Mar 2019 00:03

Tgt Ion: 77 Resp: 128

Ion Ratio Lower Upper

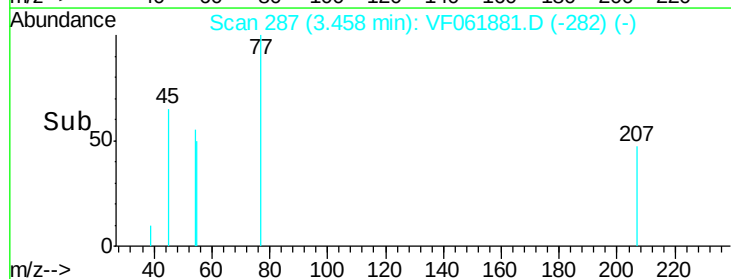
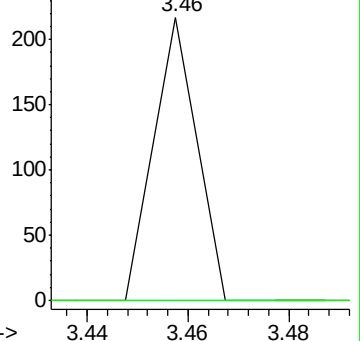
77 100

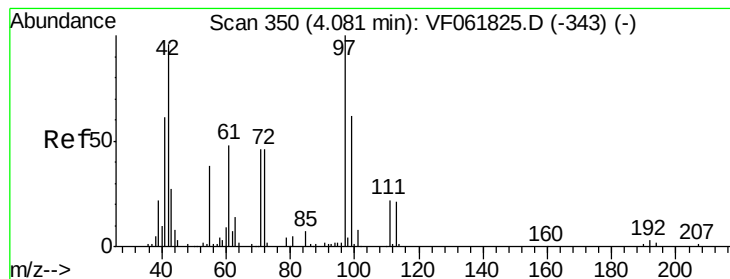
97 0.0 10.4 31.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#29

Tetrahydrofuran

Concen: 2.952 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

SP-1RE

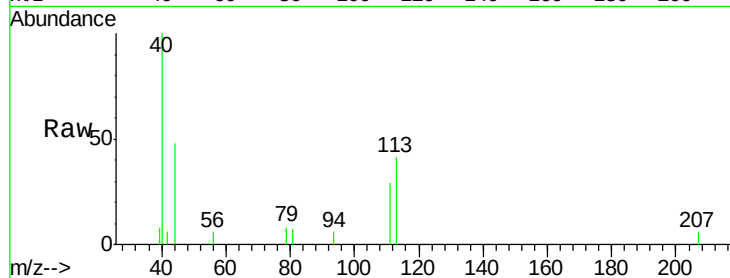
Tot Ion: 42 Resp: 66

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

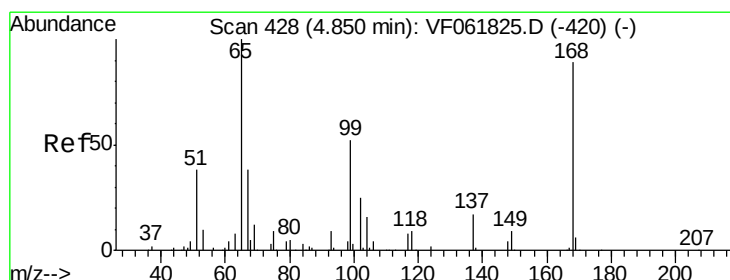
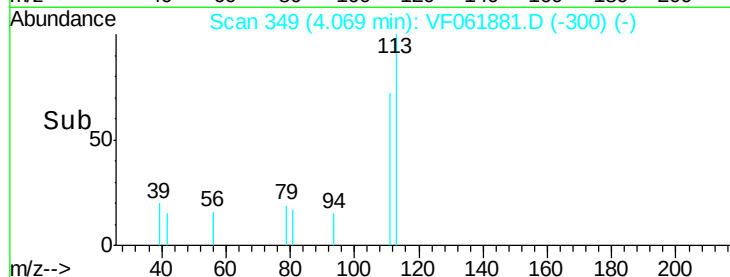
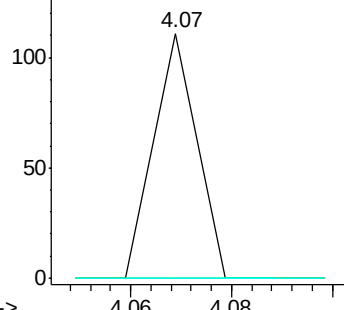
71 0.0 34.6 52.0#



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: 26.556 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061881.D

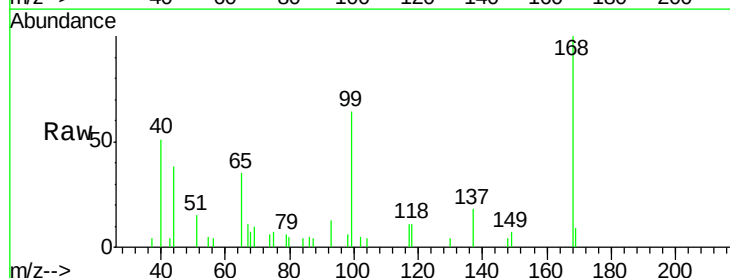
Acq: 9 Mar 2019 00:03

Tgt Ion: 65 Resp: 3231

Ion Ratio Lower Upper

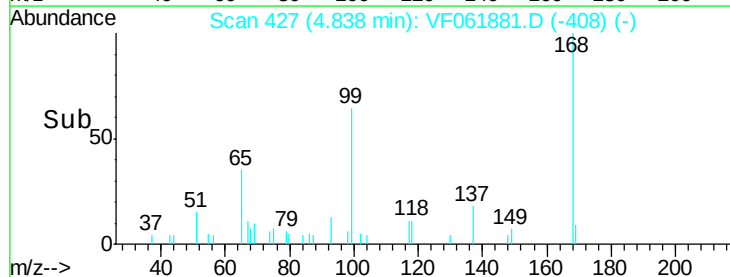
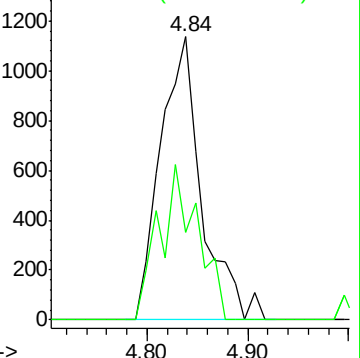
65 100

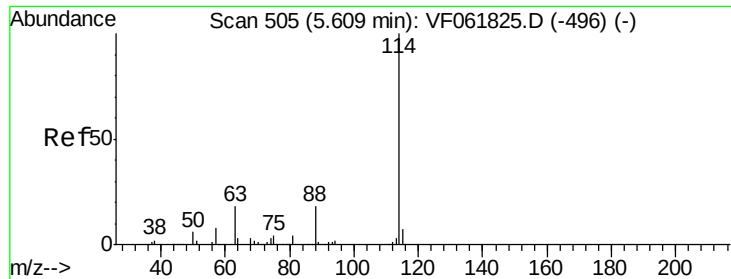
67 30.7 0.0 108.6



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. -0.02 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

SP-1RE

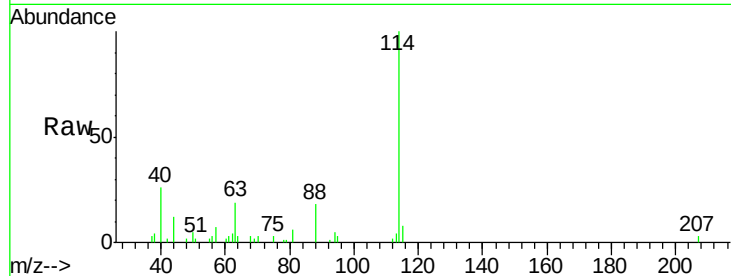
Tot Ion:114 Resp: 20007

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.6

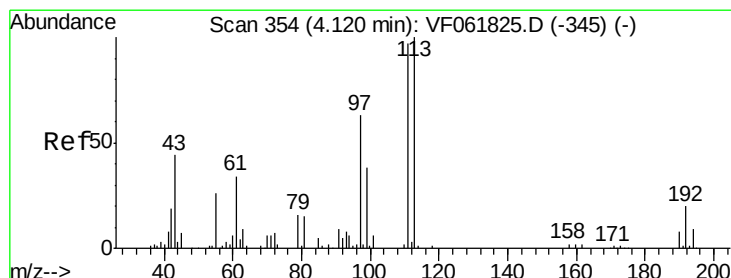
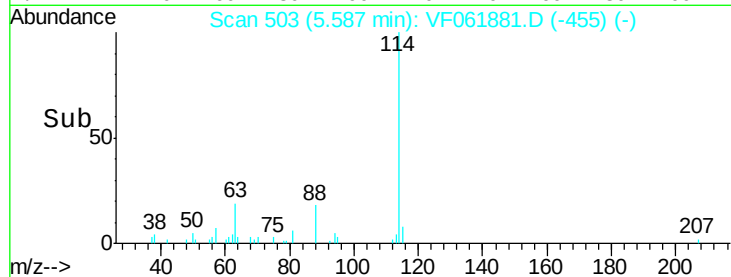
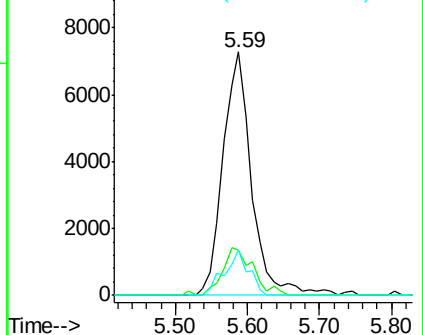
88 18.4 0.0 35.6



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: 42.558 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

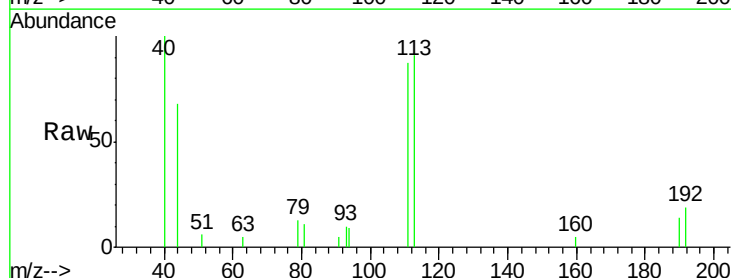
Tgt Ion:113 Resp: 5942

Ion Ratio Lower Upper

113 100

111 95.5 77.6 116.4

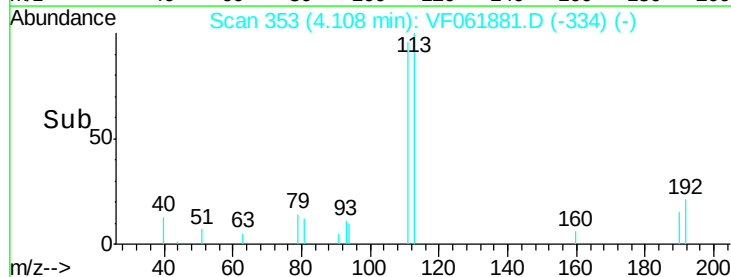
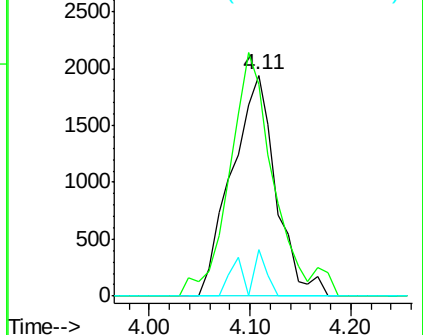
192 20.9 15.9 23.9

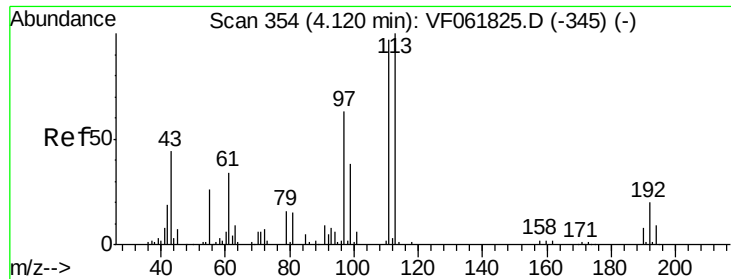


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

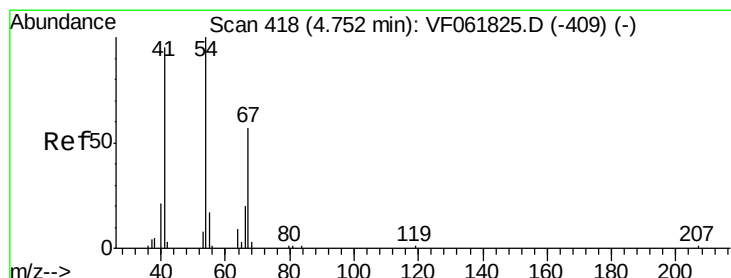
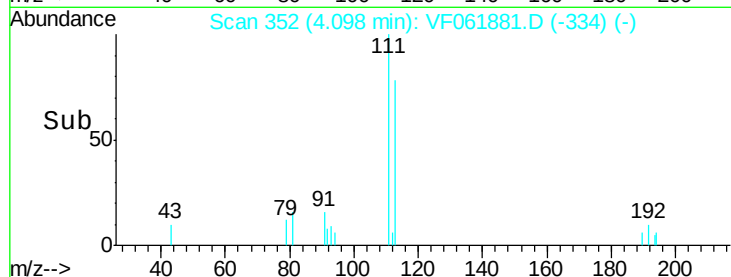
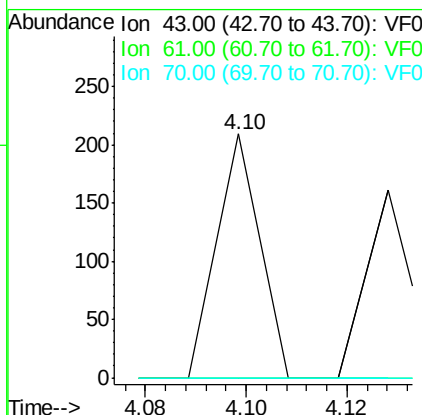
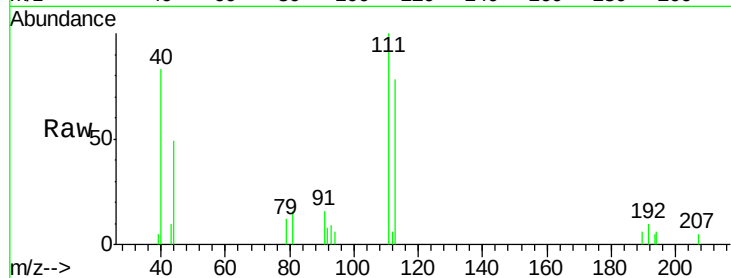




#37
Ethyl Acetate
Concen: 1.563 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

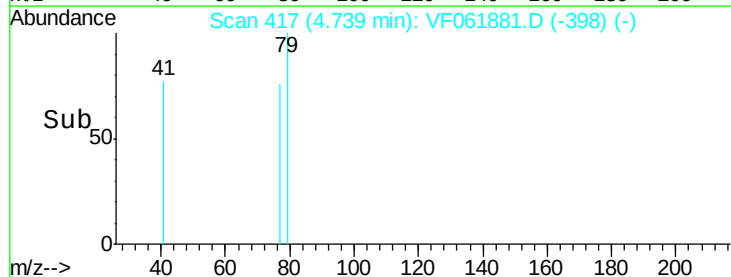
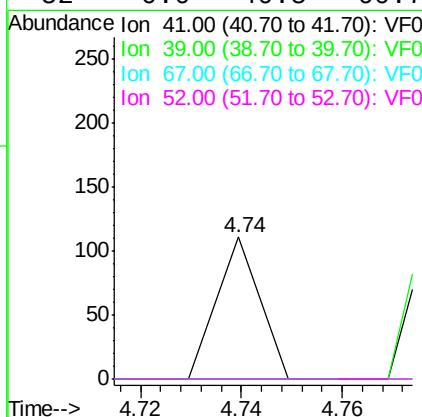
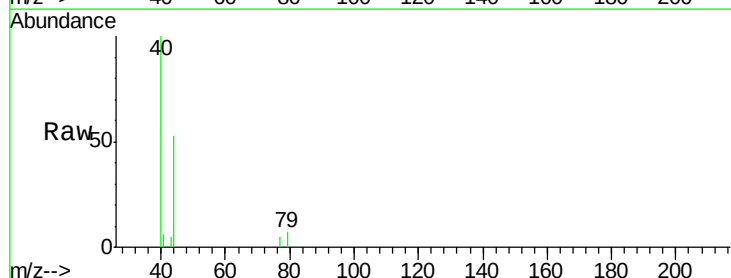
Instrument :
MSVOA_F
ClientSampled :
SP-1RE

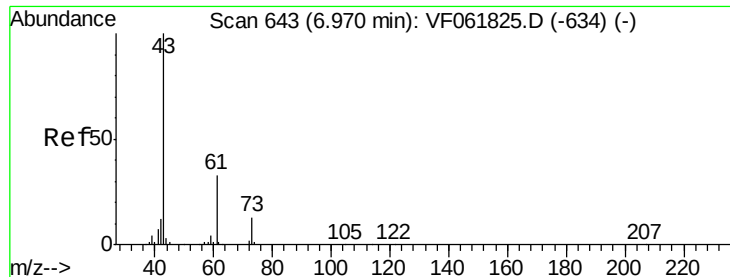
Tot Ion: 43 Resp: 124
Ion Ratio Lower Upper
43 100
61 0.0 60.7 91.1#
70 0.0 10.6 15.8#



#41
Methacrylonitrile
Concen: 1.519 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Tgt Ion: 41 Resp: 66
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 0.0 47.8 71.8#
52 0.0 40.5 60.7#





#43

Isopropyl Acetate

Concen: 1.084 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

MSVOA_F

ClientSampleId :

SP-1RE

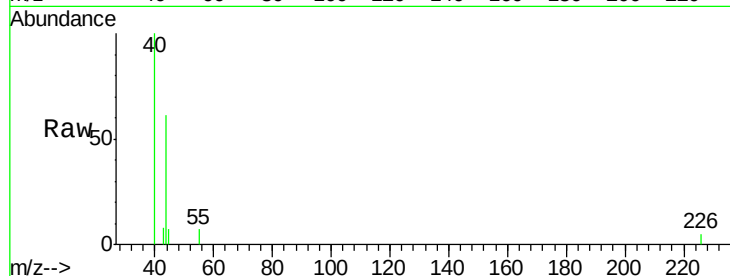
Tot Ion: 43 Resp: 106

Ion Ratio Lower Upper

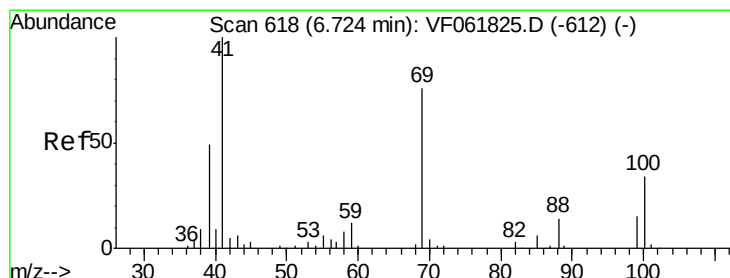
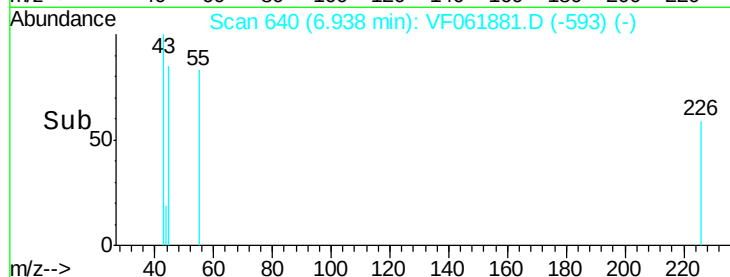
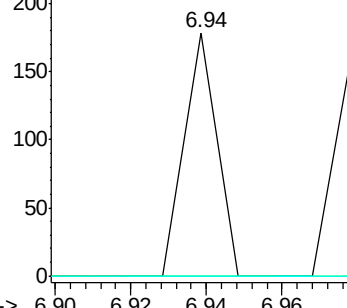
43 100

61 0.0 26.1 39.1#

87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 1.681 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.03 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

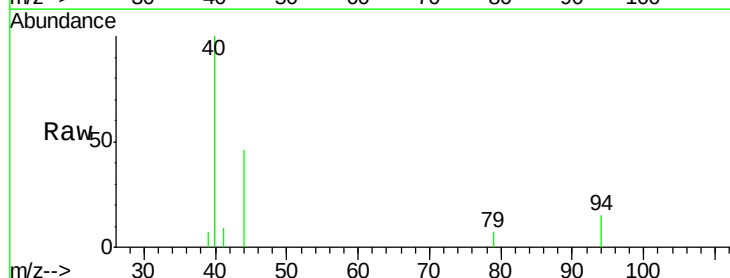
Tgt Ion: 41 Resp: 104

Ion Ratio Lower Upper

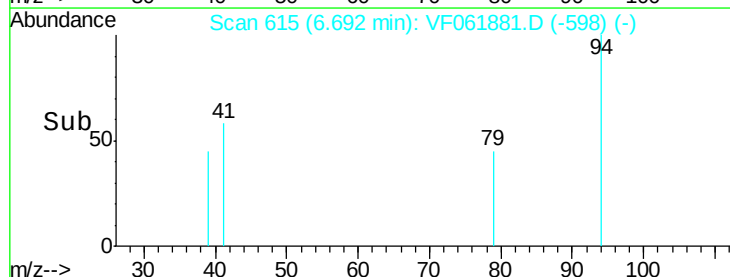
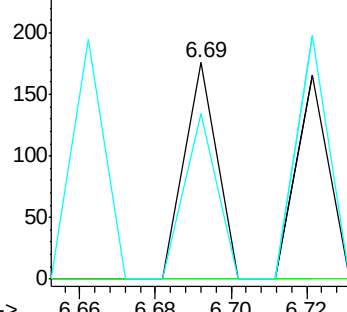
41 100

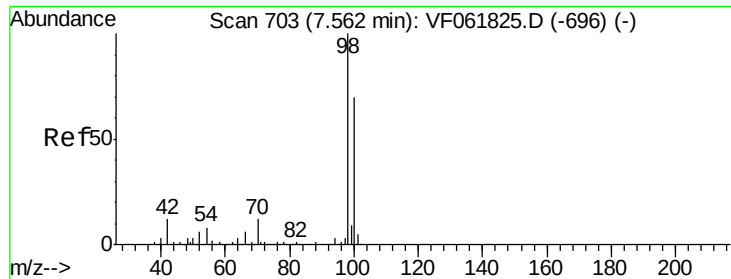
69 0.0 60.4 90.6#

39 76.7 39.7 59.5#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

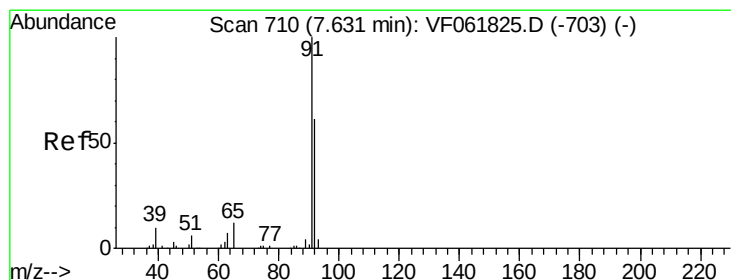
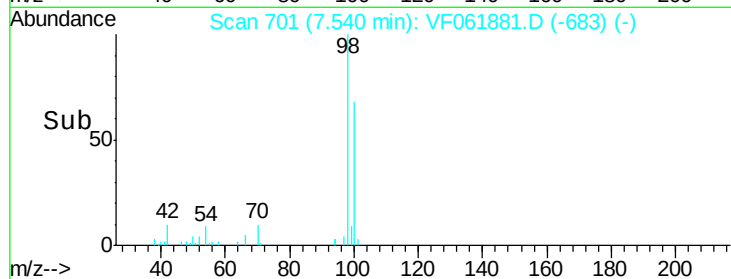
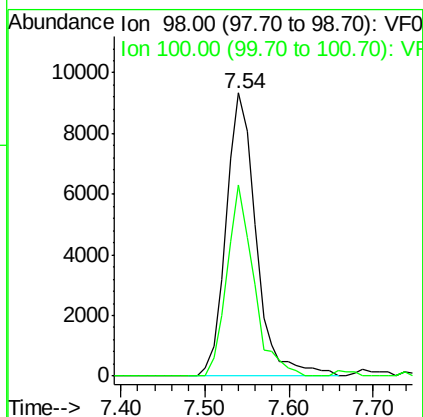
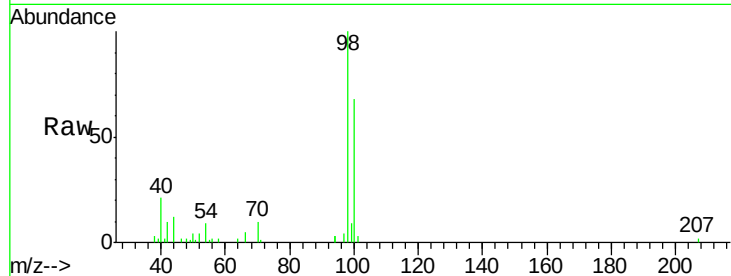




#50
Toluene-d8
Concen: 55.940 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

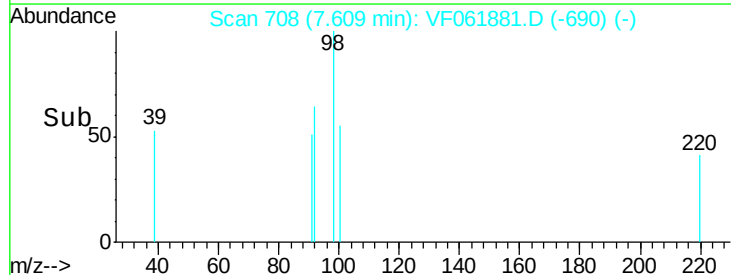
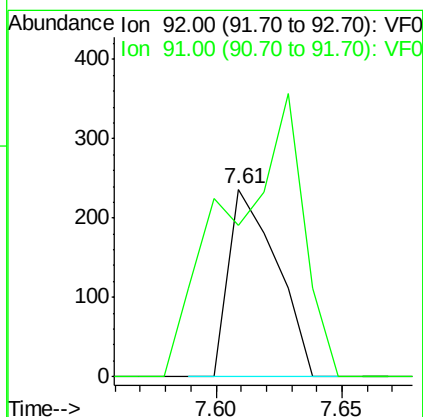
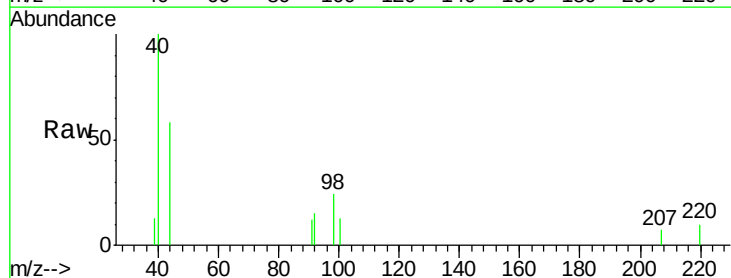
Instrument :
MSVOA_F
ClientSampleId :
SP-1RE

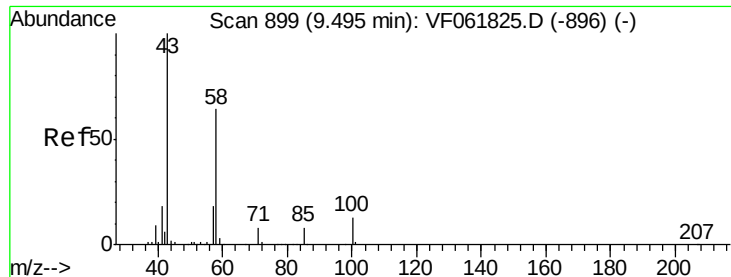
Tot Ion: 98 Resp: 23215
Ion Ratio Lower Upper
98 100
100 67.6 56.0 84.0



#52
Toluene
Concen: 1.071 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.02 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Tgt Ion: 92 Resp: 313
Ion Ratio Lower Upper
92 100
91 80.5 132.0 198.0#

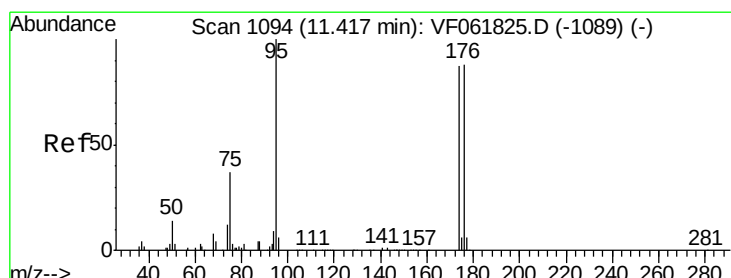
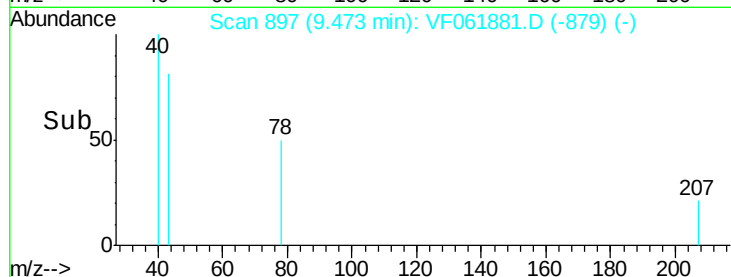
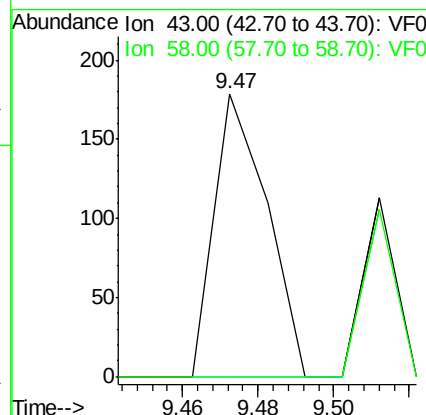
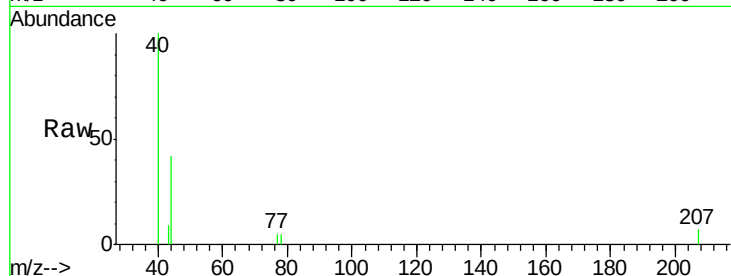




#59
2-Hexanone
Concen: 3.507 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

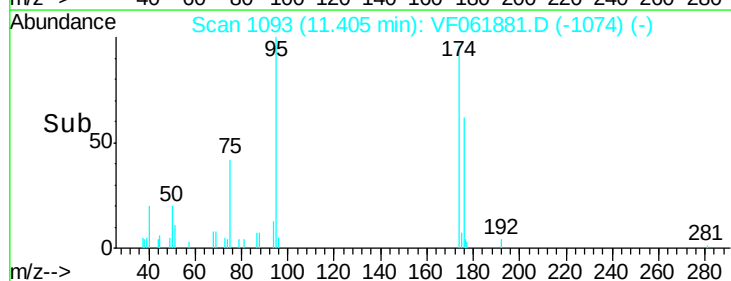
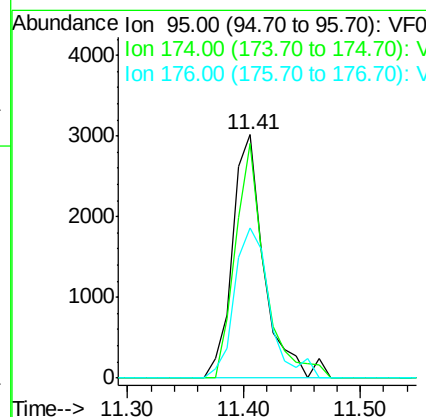
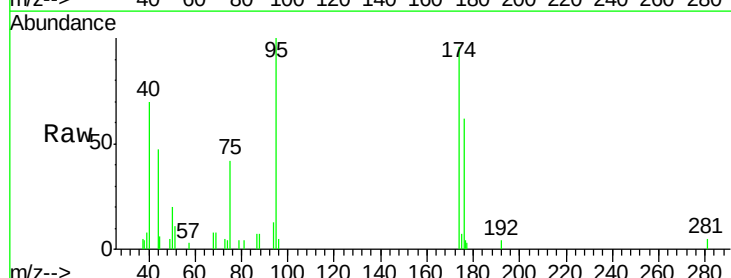
Instrument :
MSVOA_F
ClientSampleId :
SP-1RE

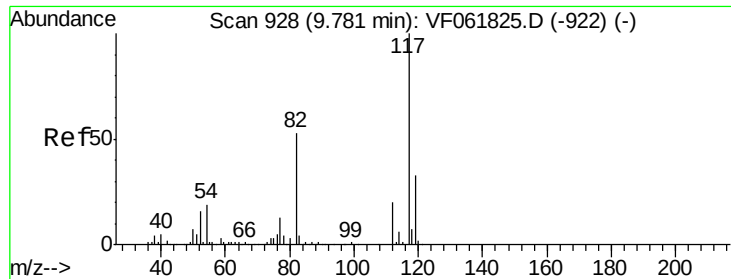
Tot Ion: 43 Resp: 171
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 35.130 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Tgt Ion: 95 Resp: 5711
Ion Ratio Lower Upper
95 100
174 96.4 0.0 174.0
176 61.8 0.0 175.2

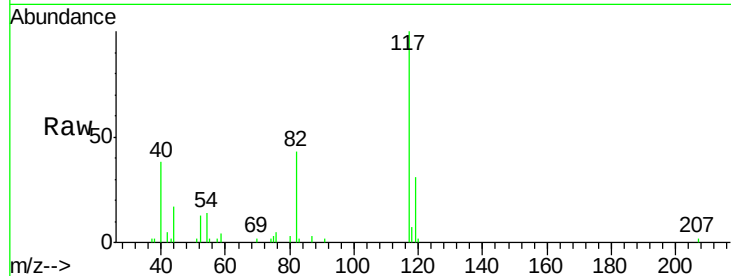




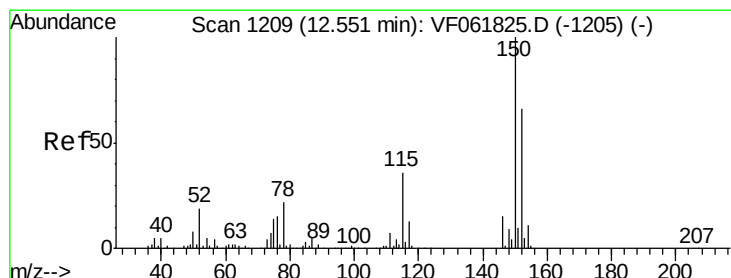
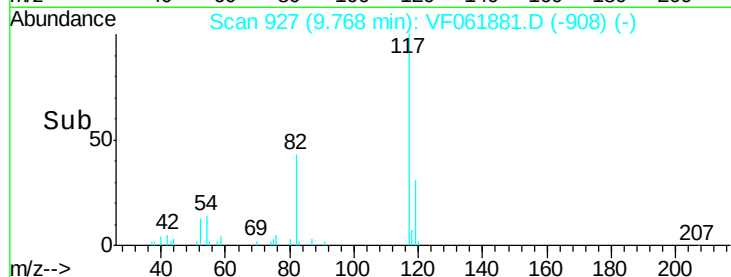
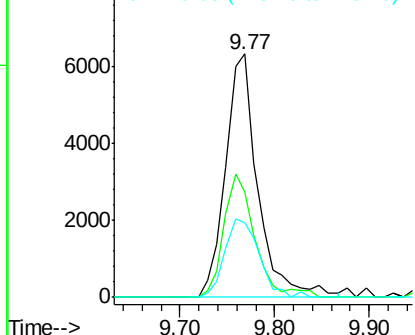
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Instrument :
MSVOA_F
ClientSampleId :
SP-1RE

Tot Ion:117 Resp: 15036
Ion Ratio Lower Upper
117 100
82 43.1 42.6 63.8
119 30.7 26.0 39.0

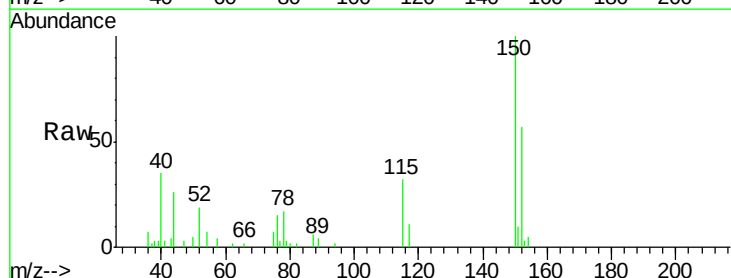


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

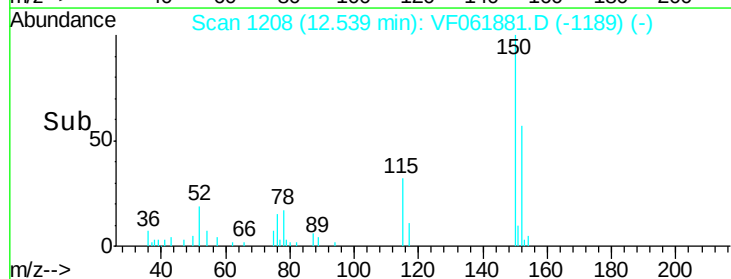
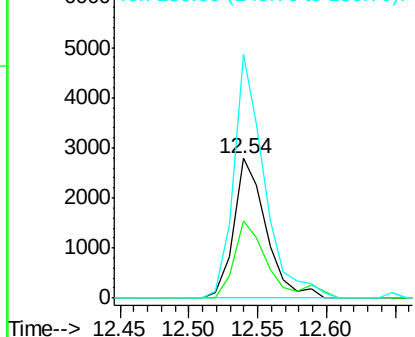


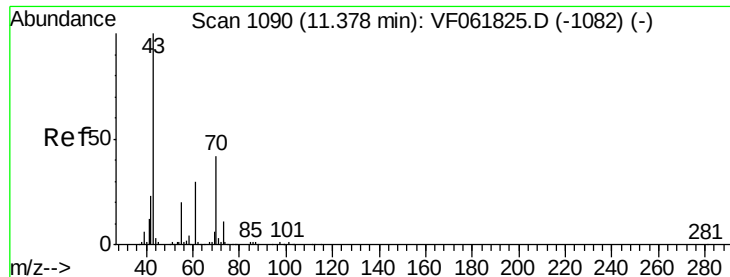
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061881.D
Acq: 9 Mar 2019 00:03

Tgt Ion:152 Resp: 4567
Ion Ratio Lower Upper
152 100
115 55.6 27.7 83.1
150 174.3 0.0 304.2



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: 2.100 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Instrument :

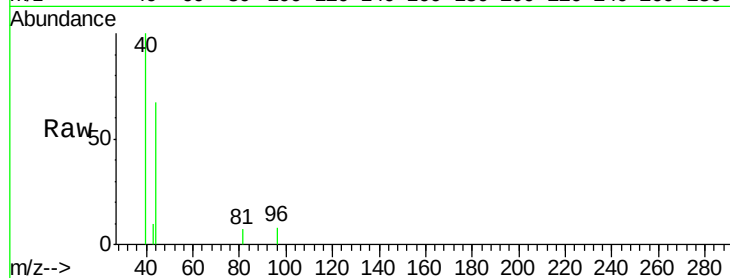
MSVOA_F

ClientSampleId :

SP-1RE

Tot Ion: 43 Resp: 152

Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.0#
55	0.0	16.3	24.5#
61	0.0	24.0	36.0#

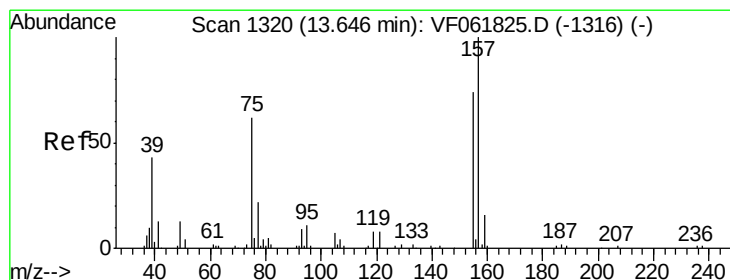
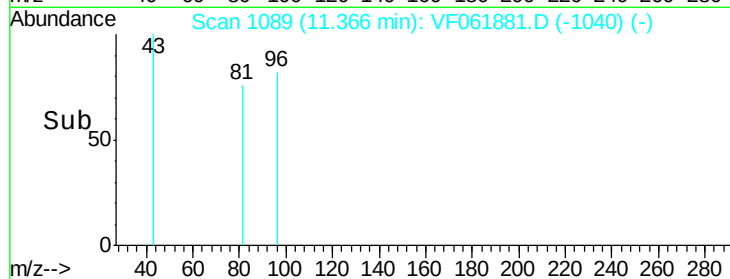
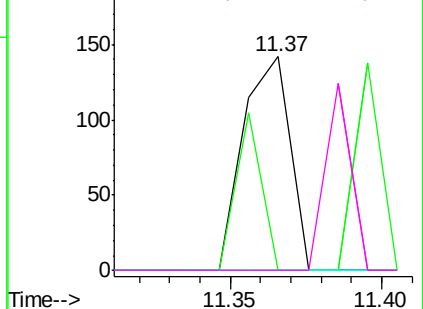


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.391 ug/l

RT: 13.72 min Scan# 1328

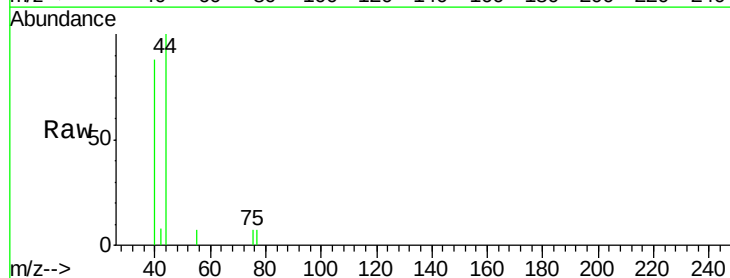
Delta R.T. 0.08 min

Lab File: VF061881.D

Acq: 9 Mar 2019 00:03

Tgt Ion: 75 Resp: 65

Ion	Ratio	Lower	Upper
75	100		
155	0.0	59.8	179.4#
157	0.0	81.2	243.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

