

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061506.D
 Acq On : 24 Jan 2019 18:04
 Operator : VA/AP
 Sample : K1223-03RE
 Misc : 5.47g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-ORE

Quant Time: Jan 25 04:09:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	155188	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.63	114	288363	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.80	117	174357	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.57	152	41031	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	83843	43.76	ug/l	0.04
Spiked Amount			Recovery	=	87.52%	
35) Dibromofluoromethane	4.15	113	96810	42.55	ug/l	0.04
Spiked Amount			Recovery	=	85.10%	
50) Toluene-d8	7.58	98	196933	31.59	ug/l	0.04
Spiked Amount			Recovery	=	63.18%	
62) 4-Bromofluorobenzene	11.43	95	49431	16.97	ug/l	0.03
Spiked Amount			Recovery	=	33.94%	

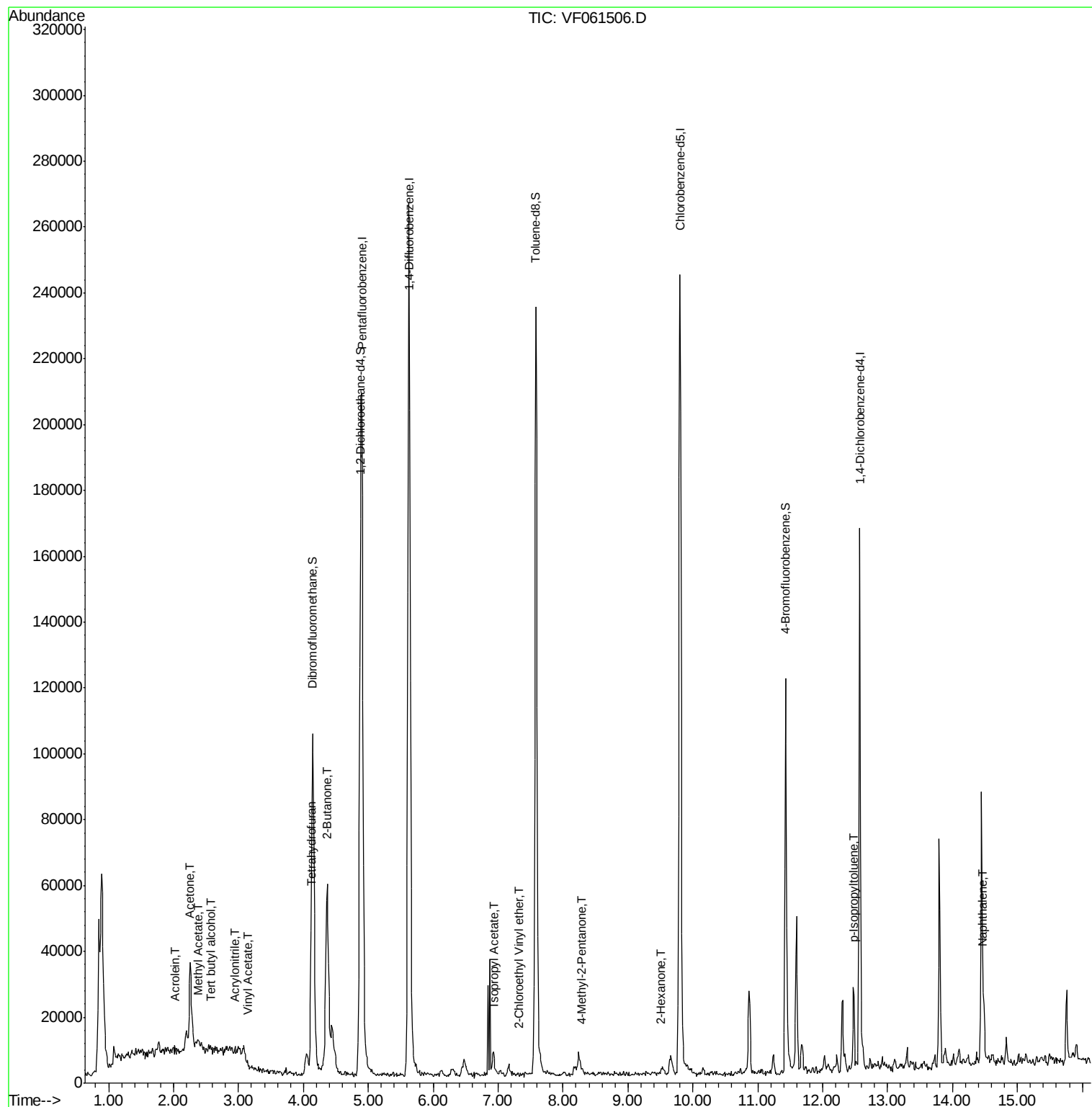
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	236	2.910	ug/l #	1
13) Acrolein	2.02	56	247	13.727	ug/l	91
14) Allyl chloride	2.11	41	628	Below Cal	#	60
15) Acrylonitrile	2.94	53	220	1.059	ug/l #	19
16) Acetone	2.25	43	36766	95.652	ug/l	99
18) Methyl Acetate	2.36	43	5165	6.776	ug/l #	86
20) Methylene Chloride	2.20	84	2044	Below Cal		95
23) Vinyl Acetate	3.15	43	348	3.353	ug/l #	78
25) 2-Butanone	4.37	43	115526	180.737	ug/l	99
29) Tetrahydrofuran	4.11	42	576	2.093	ug/l #	49
43) Isopropyl Acetate	6.93	43	11641	6.940	ug/l #	51
51) 4-Methyl-2-Pentanone	8.29	43	2078	1.685	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.31	63	62	27.843	ug/l #	47
59) 2-Hexanone	9.52	43	2667	3.102	ug/l	64
86) p-Isopropyltoluene	12.47	119	13165	4.237	ug/l	90
95) Naphthalene	14.48	128	3875	2.208	ug/l #	96

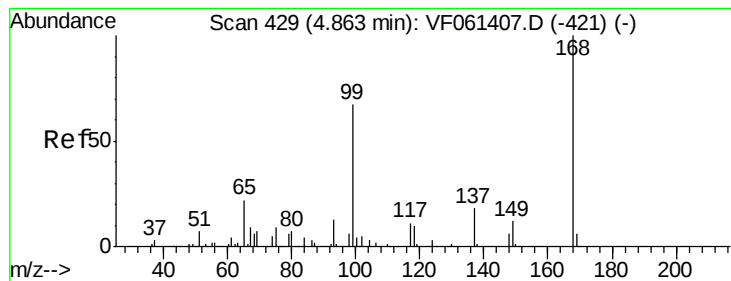
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

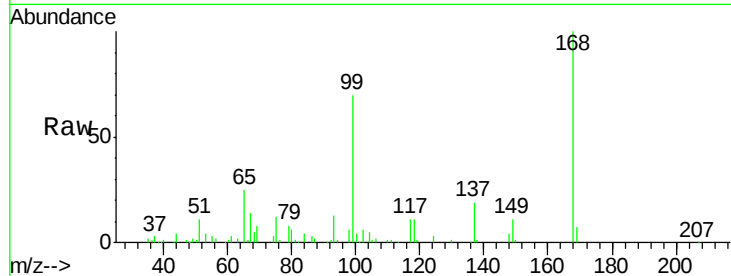
Instrument :
MSVOA_F
ClientSampleId :
TS-ORE

Tot Ion:168 Resp: 155188

Ion Ratio Lower Upper

168 100

99 69.8 53.5 80.3

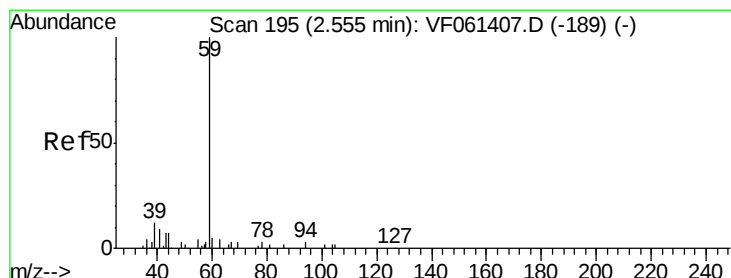
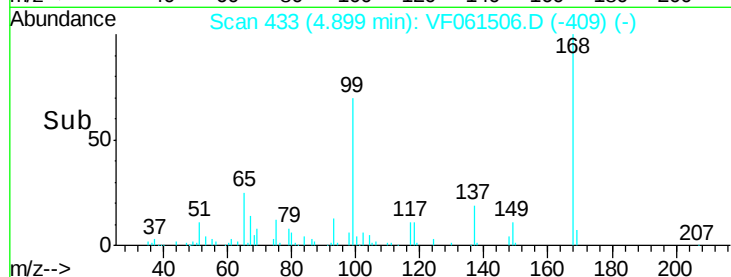


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

Time-->



#11

Tert butyl alcohol

Concen: 2.910 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.02 min

Lab File: VF061506.D

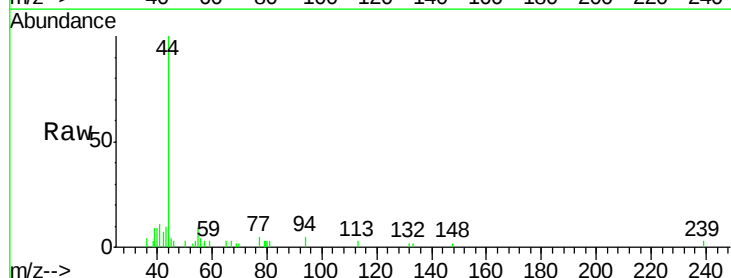
Acq: 24 Jan 2019 18:04

Tgt Ion: 59 Resp: 236

Ion Ratio Lower Upper

59 100

57 79.0 11.9 17.9#

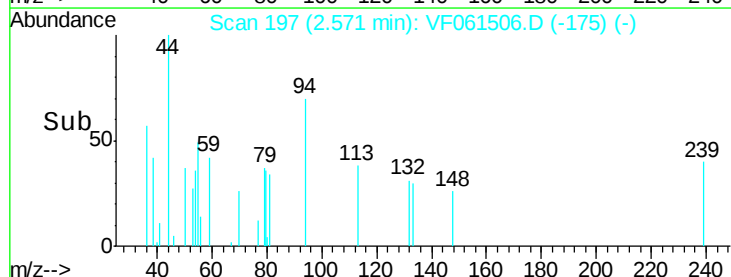


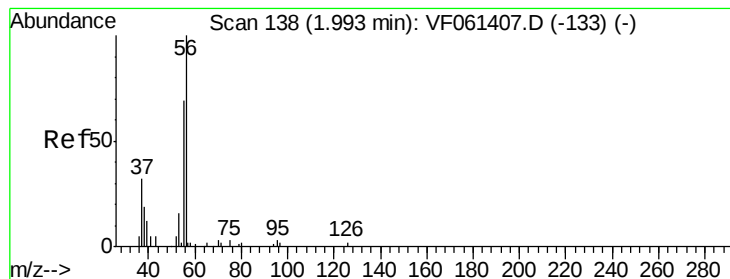
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

Time-->





#13

Acrolein

Concen: 13.727 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

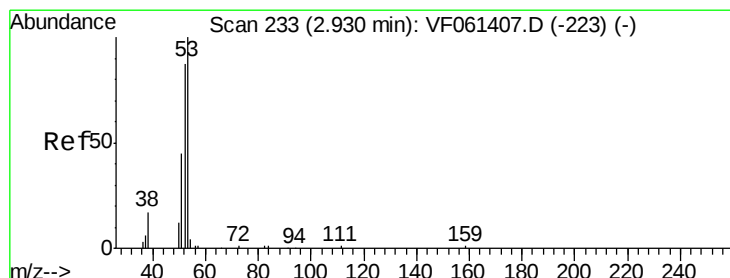
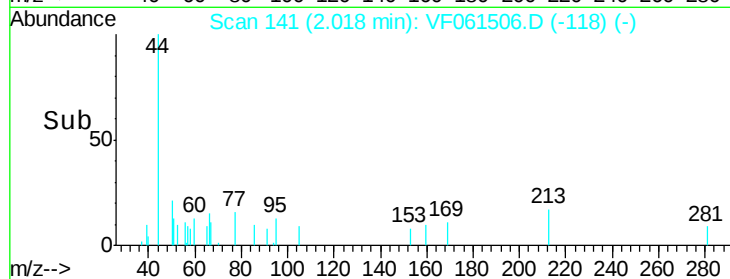
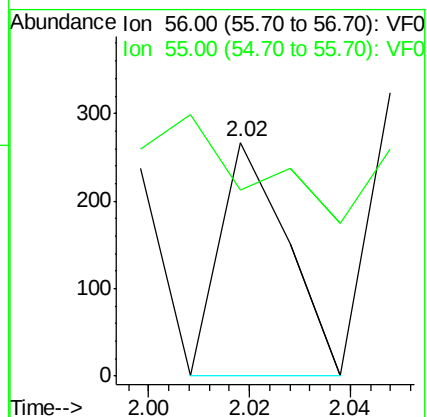
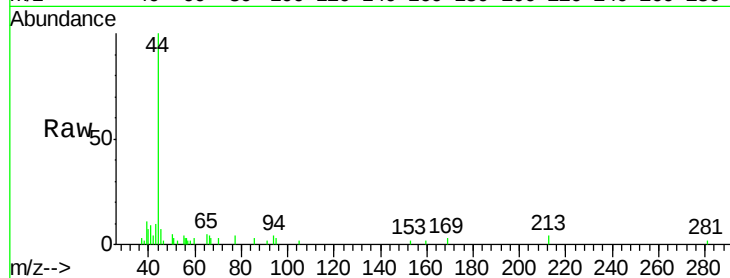
TS-ORE

Tot Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 79.4 57.5 86.3



#15

Acrylonitrile

Concen: 1.059 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

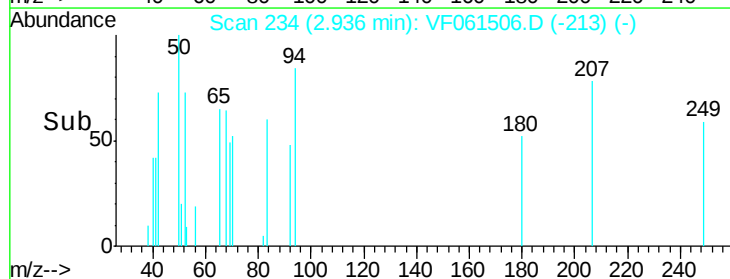
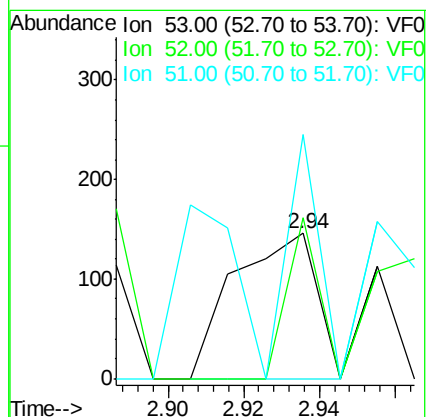
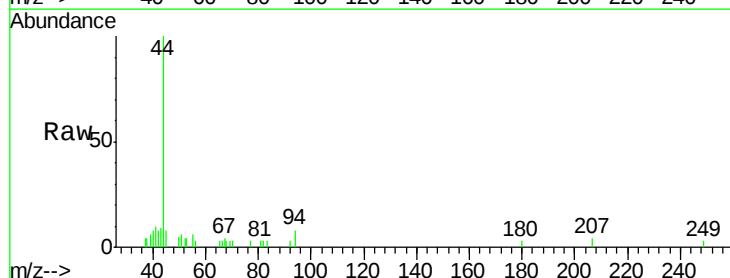
Tgt Ion: 53 Resp: 220

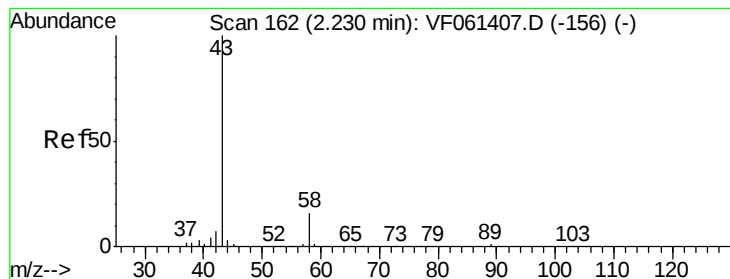
Ion Ratio Lower Upper

53 100

52 111.0 69.6 104.4#

51 167.8 36.8 55.2#





#16

Acetone

Concen: 95.652 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.03 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

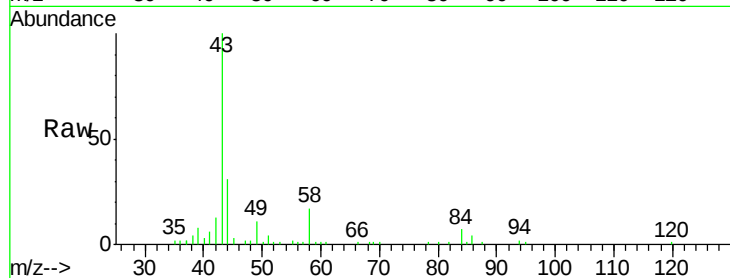
Instrument :
MSVOA_F
ClientSampleId :
TS-ORE

Tot Ion: 43 Resp: 36766

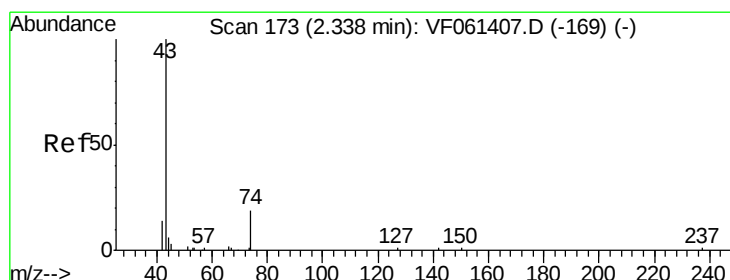
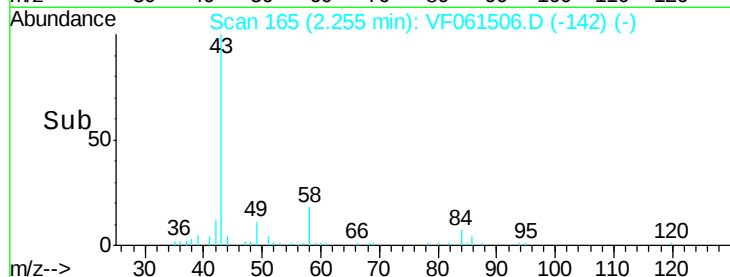
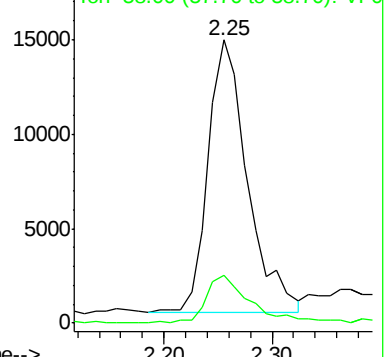
Ion Ratio Lower Upper

43 100

58 17.1 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 6.776 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF061506.D

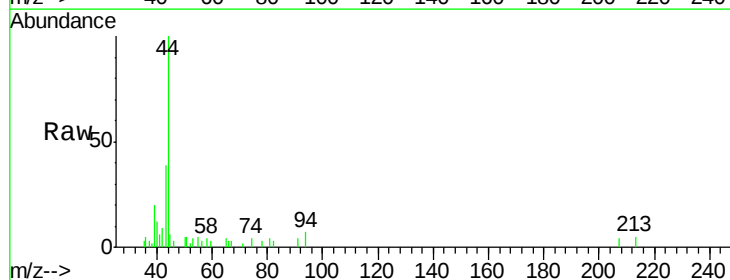
Acq: 24 Jan 2019 18:04

Tgt Ion: 43 Resp: 5165

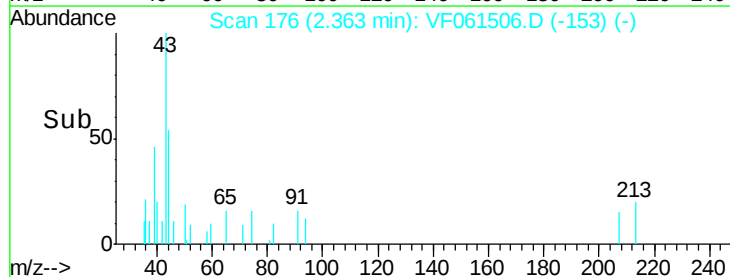
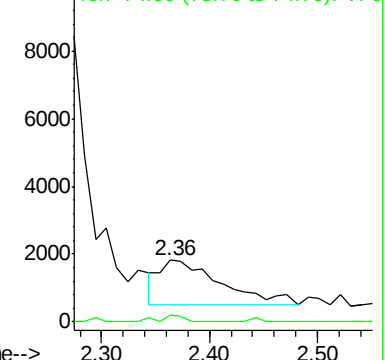
Ion Ratio Lower Upper

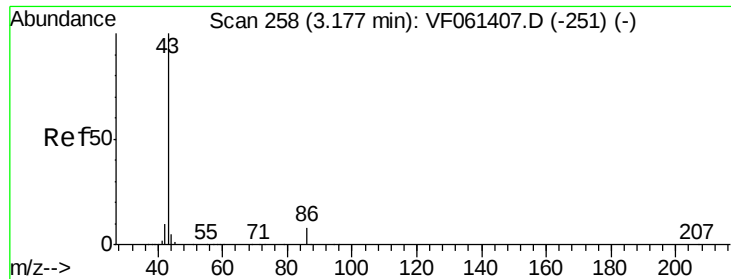
43 100

74 10.6 13.4 20.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 74.00 (73.70 to 74.70): VF0





#23

Vinyl Acetate

Concen: 3.353 ug/l

RT: 3.15 min Scan# 256

Delta R.T. -0.02 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

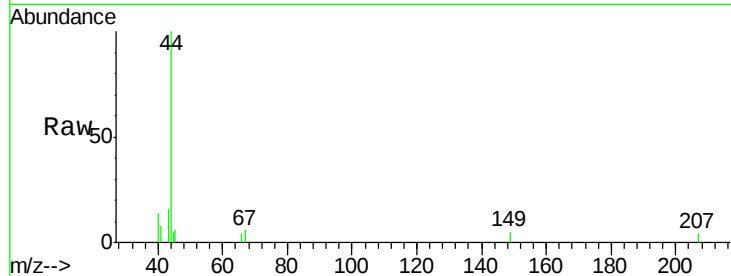
TS-ORE

Tot Ion: 43 Resp: 348

Ion Ratio Lower Upper

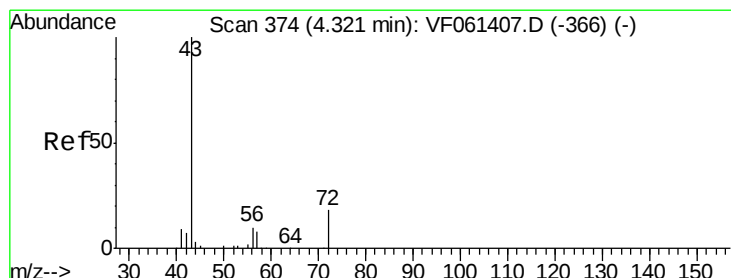
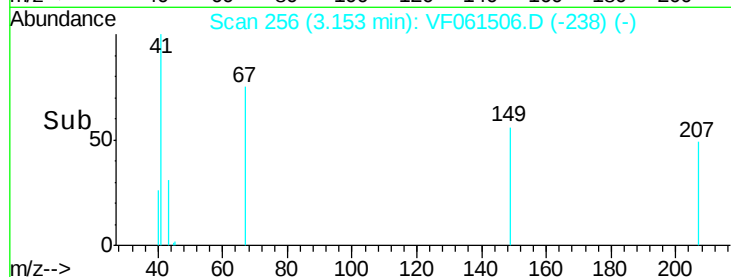
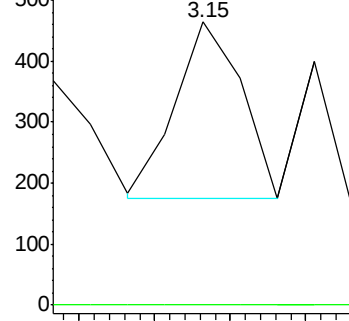
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 180.737 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF061506.D

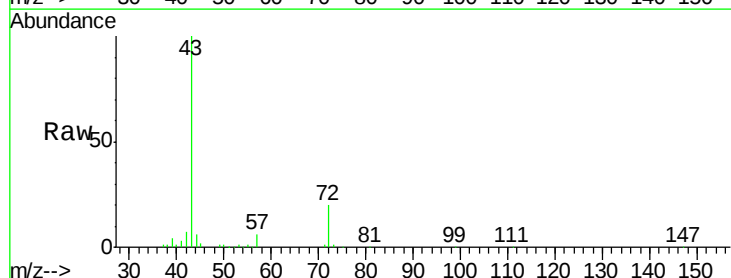
Acq: 24 Jan 2019 18:04

Tgt Ion: 43 Resp: 115526

Ion Ratio Lower Upper

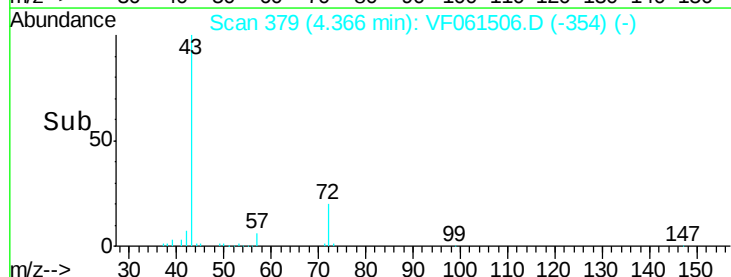
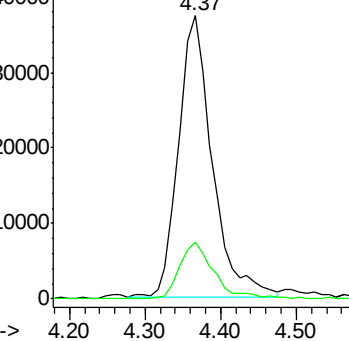
43 100

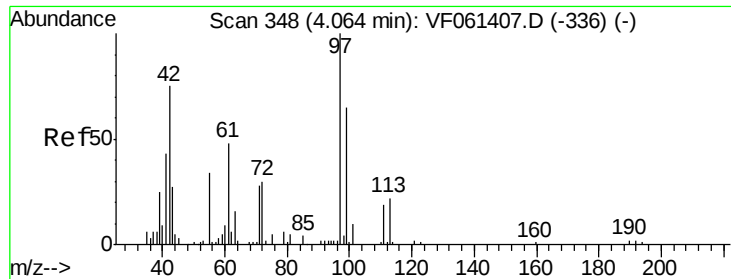
72 20.3 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

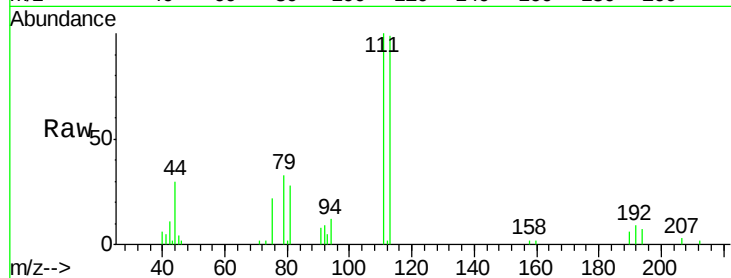




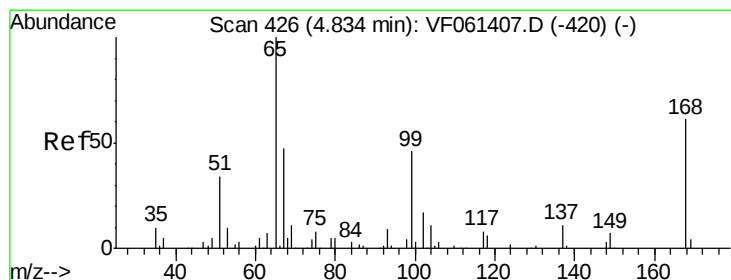
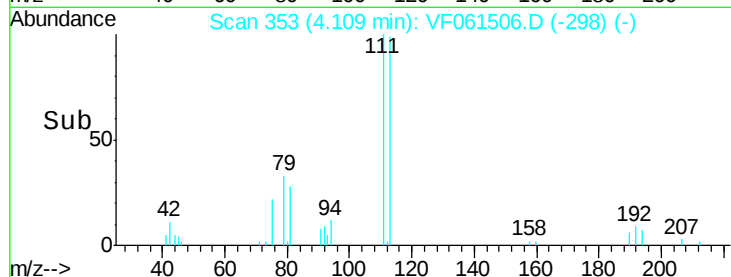
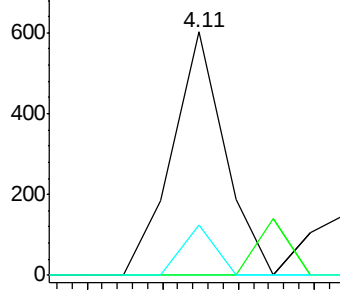
#29
Tetrahydrofuran
Concen: 2.093 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.04 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

Instrument :
MSVOA_F
ClientSampleId :
TS-ORE

Tot Ion: 42 Resp: 576
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 12.7 29.6 44.4#

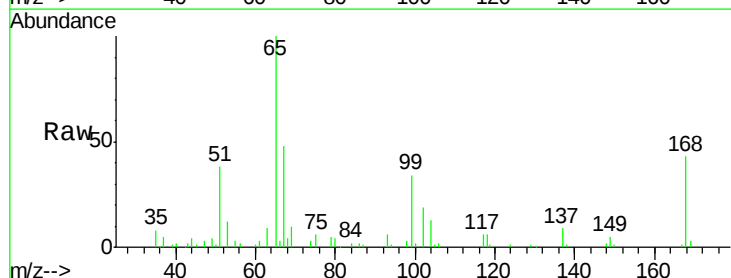


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

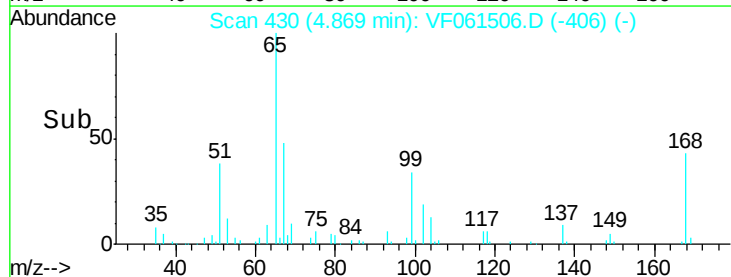
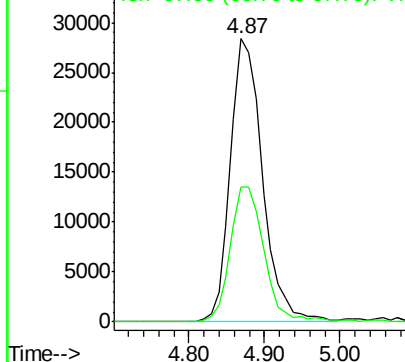


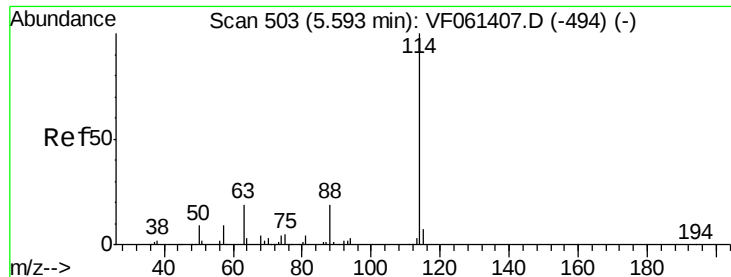
#33
1,2-Dichloroethane-d4
Concen: 43.759 ug/l
RT: 4.87 min Scan# 430
Delta R.T. 0.04 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

Tgt Ion: 65 Resp: 83843
Ion Ratio Lower Upper
65 100
67 47.6 0.0 99.8



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: 5.63 min Scan# 507

Delta R.T. 0.04 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

TS-ORE

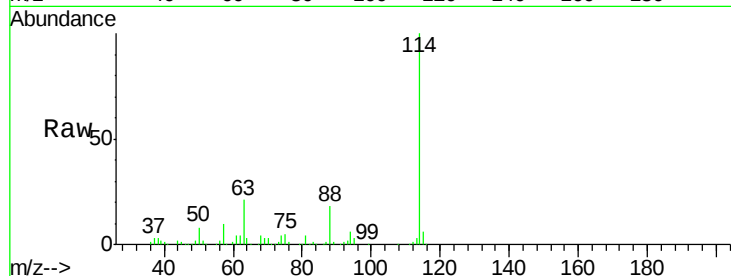
Tot Ion:114 Resp: 288363

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

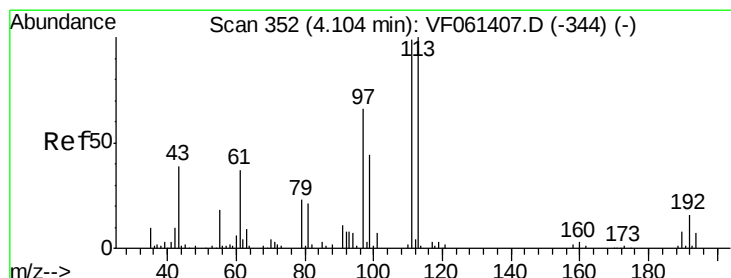
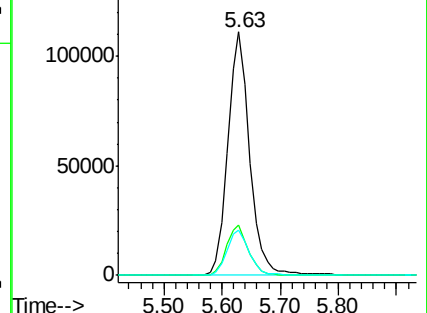
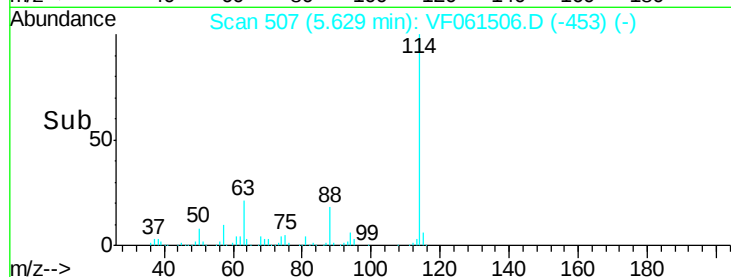
88 18.5 0.0 37.4



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: 42.546 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.04 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

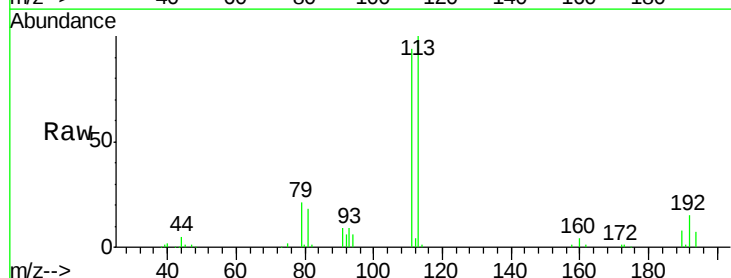
Tgt Ion:113 Resp: 96810

Ion Ratio Lower Upper

113 100

111 93.7 79.4 119.0

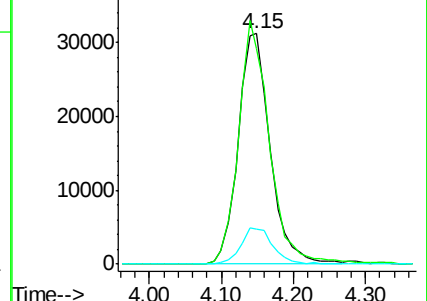
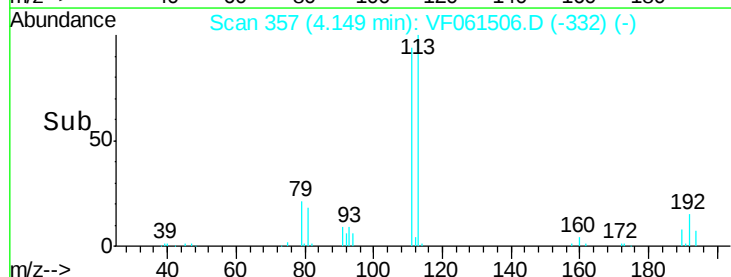
192 15.4 12.4 18.6

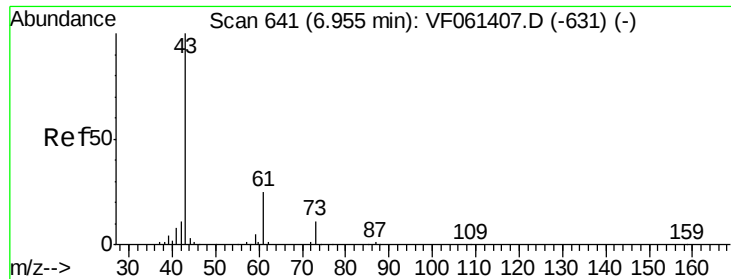


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 6.940 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.02 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

TS-ORE

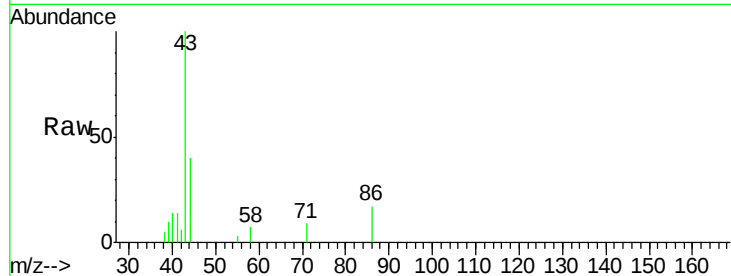
Tot Ion: 43 Resp: 11641

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

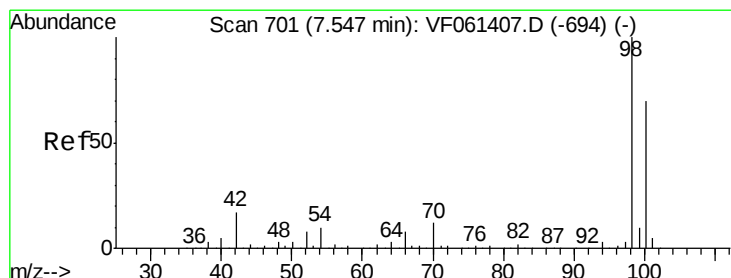
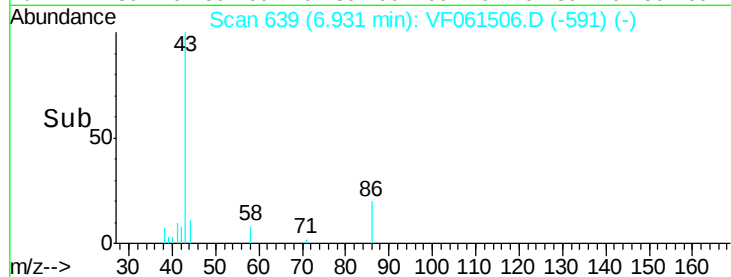
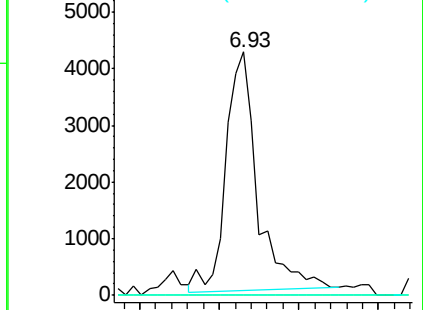
87 0.0 0.5 0.7#



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



#50

Toluene-d8

Concen: 31.589 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.04 min

Lab File: VF061506.D

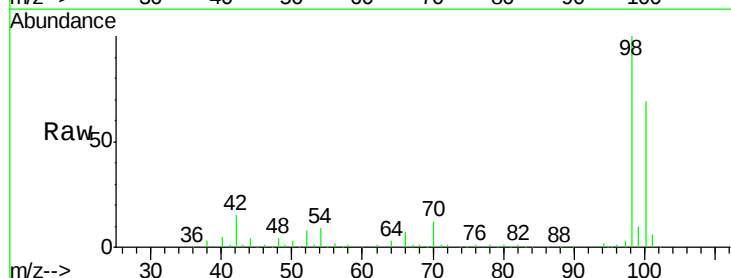
Acq: 24 Jan 2019 18:04

Tgt Ion: 98 Resp: 196933

Ion Ratio Lower Upper

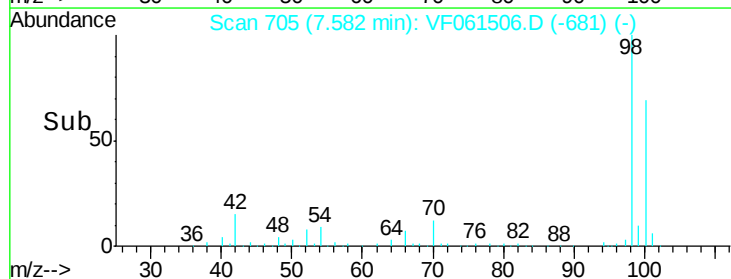
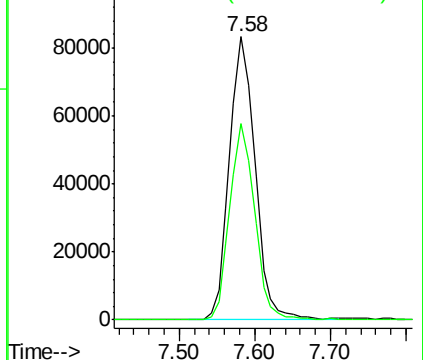
98 100

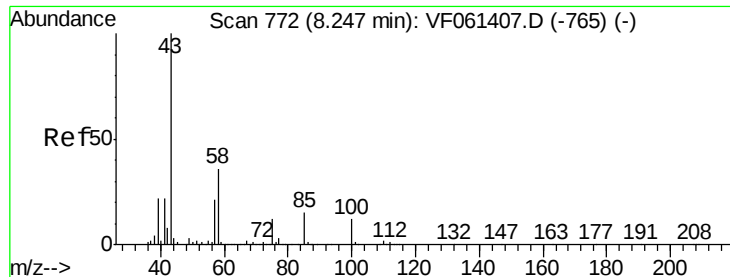
100 69.2 55.6 83.4



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: 1.685 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampled :

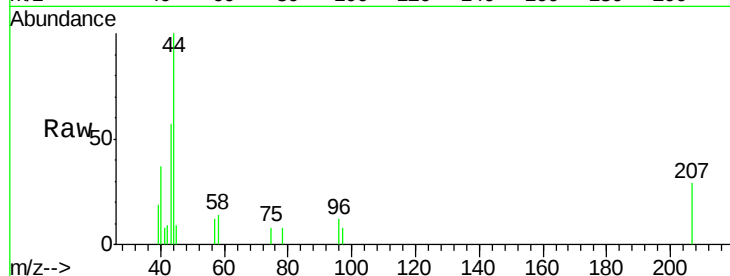
TS-ORE

Tot Ion: 43 Resp: 2078

Ion Ratio Lower Upper

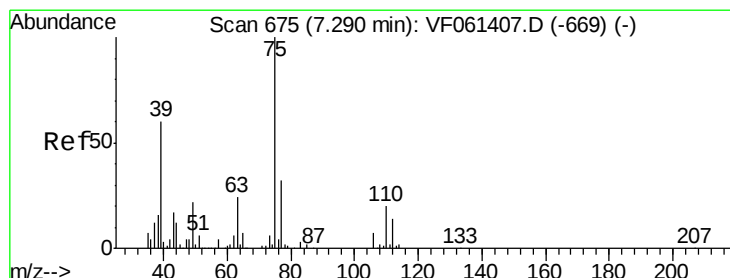
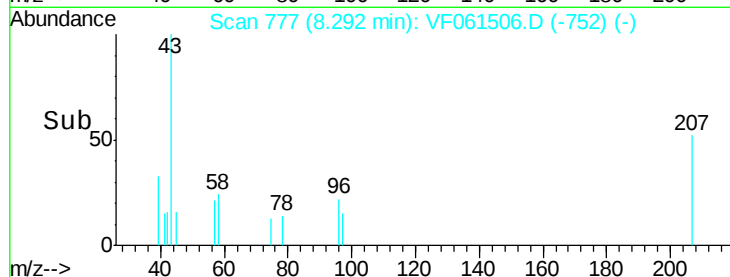
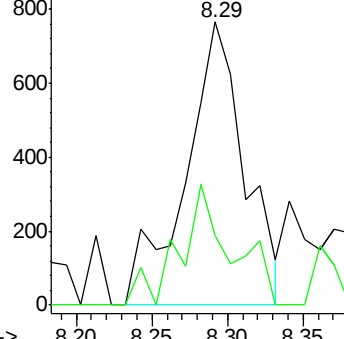
43 100

58 24.4 28.8 43.2#



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: 27.843 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.02 min

Lab File: VF061506.D

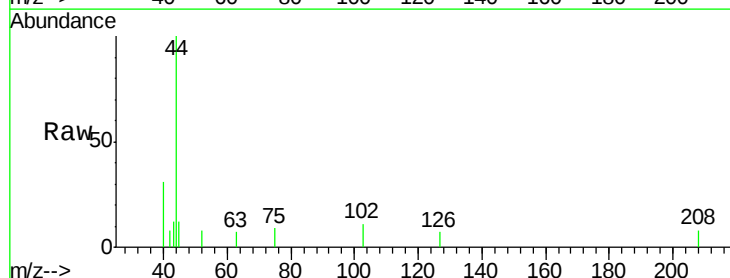
Acq: 24 Jan 2019 18:04

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

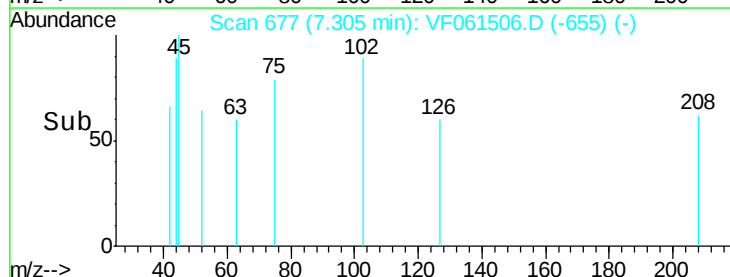
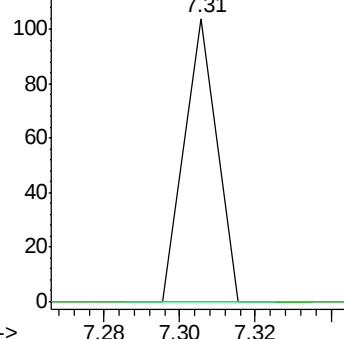
63 100

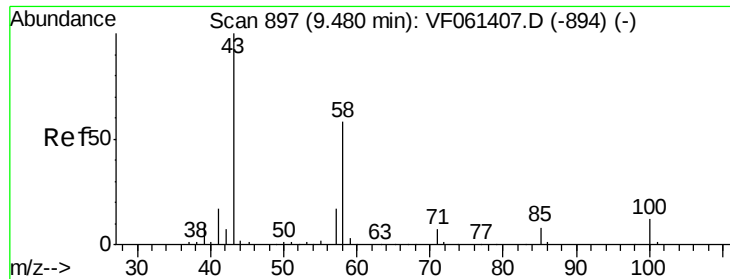
106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

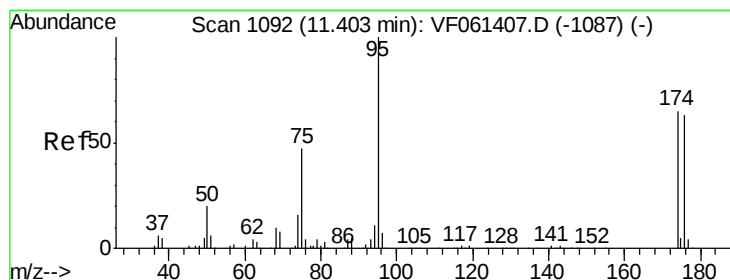
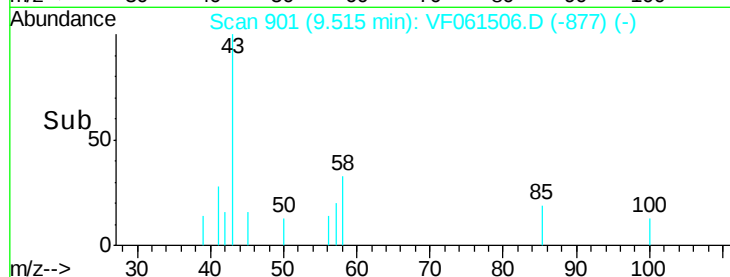
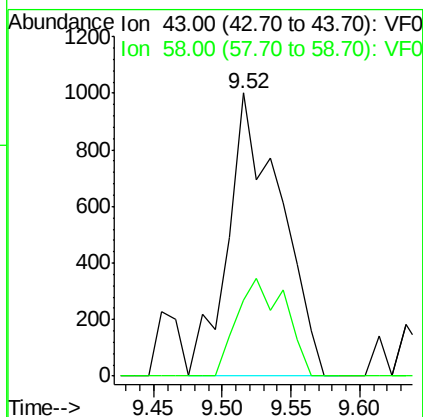
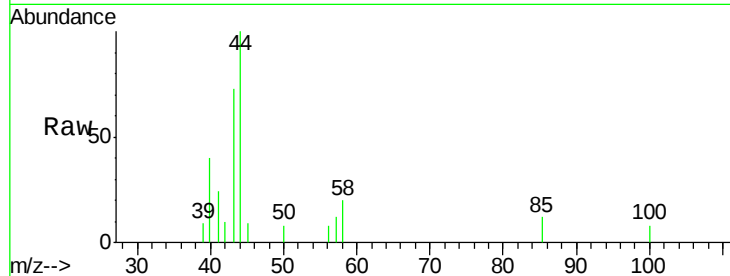




#59
2-Hexanone
Concen: 3.102 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.04 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

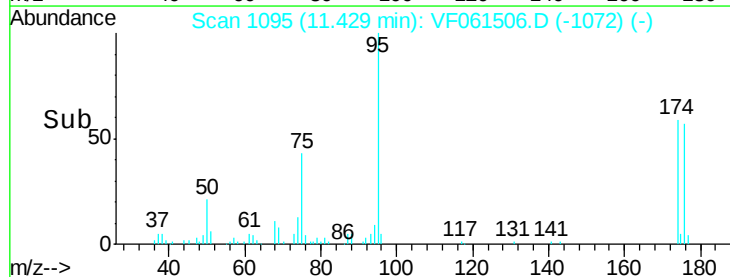
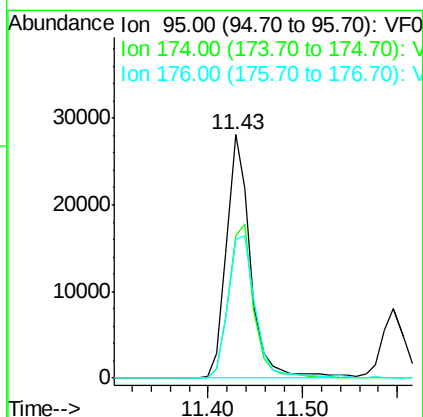
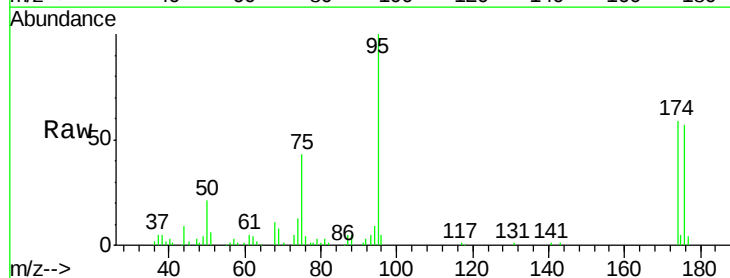
Instrument :
MSVOA_F
ClientSampleId :
TS-ORE

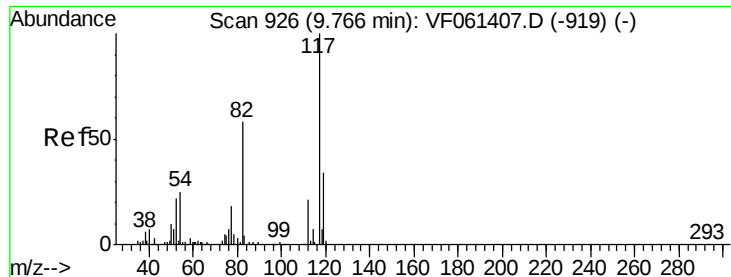
Tot Ion: 43 Resp: 2667
Ion Ratio Lower Upper
43 100
58 26.8 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 16.970 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.03 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

Tgt Ion: 95 Resp: 49431
Ion Ratio Lower Upper
95 100
174 58.7 0.0 130.4
176 57.0 0.0 126.2

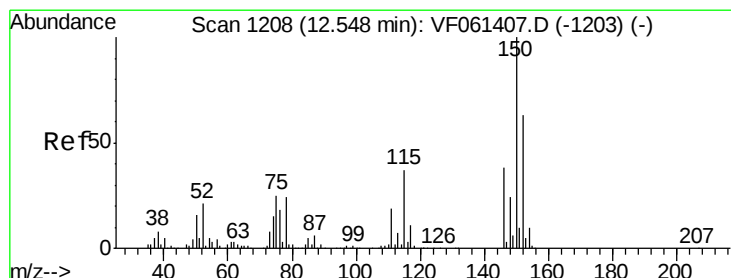
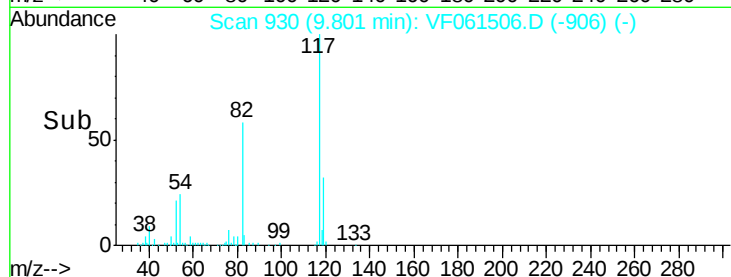
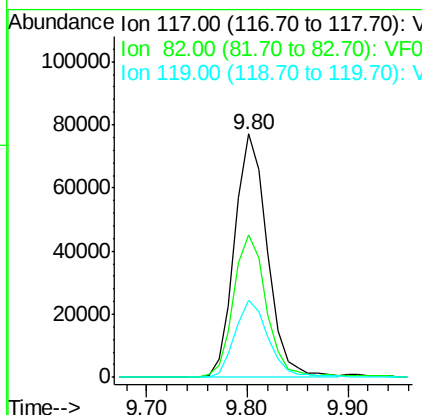
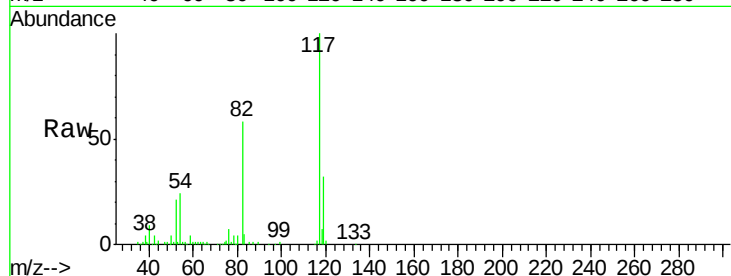




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.04 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

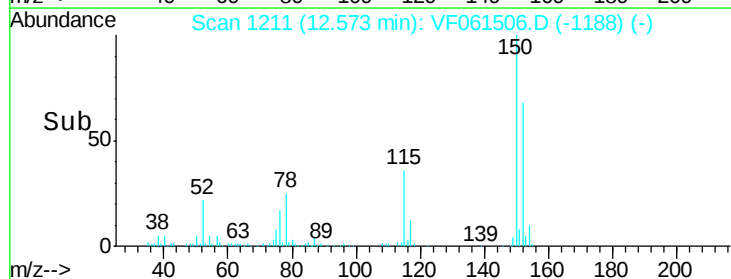
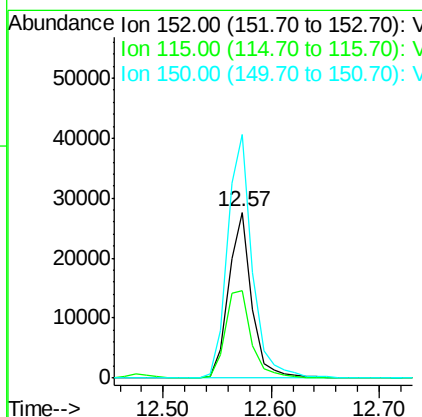
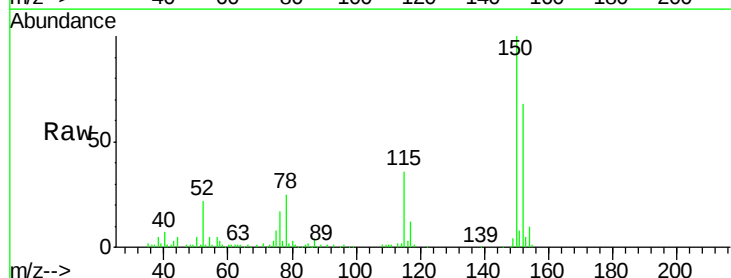
Instrument :
MSVOA_F
ClientSampleId :
TS-ORE

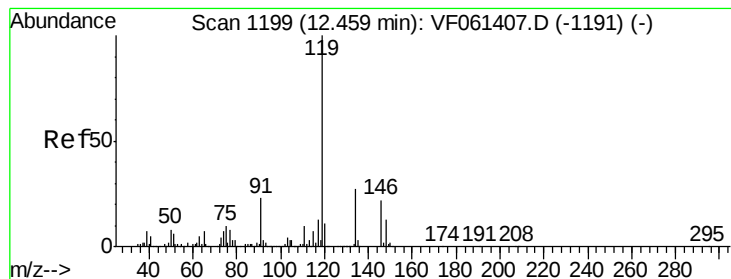
Tot Ion:117 Resp: 174357
Ion Ratio Lower Upper
117 100
82 58.4 46.4 69.6
119 31.9 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.03 min
Lab File: VF061506.D
Acq: 24 Jan 2019 18:04

Tgt Ion:152 Resp: 41031
Ion Ratio Lower Upper
152 100
115 52.5 30.0 90.0
150 147.0 0.0 321.4





#86

p-Isopropyltoluene

Concen: 4.237 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

TS-ORE

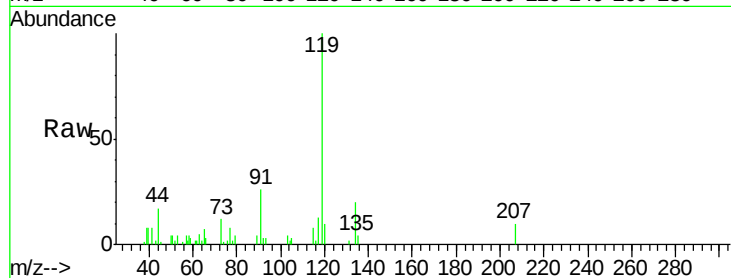
Tot Ion:119 Resp: 13165

Ion Ratio Lower Upper

119 100

134 20.4 13.4 40.2

91 25.9 11.4 34.2

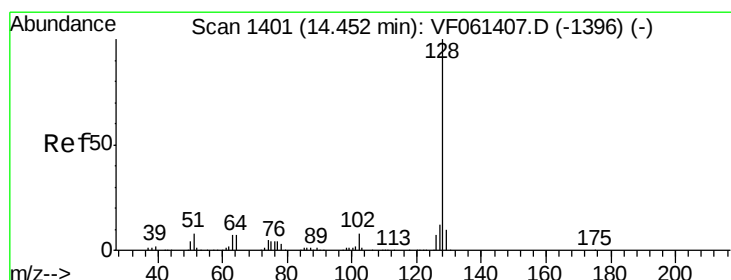
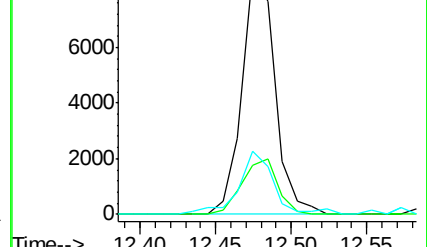
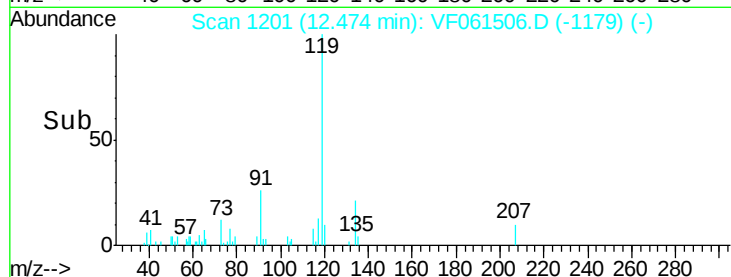


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



#95

Naphthalene

Concen: 2.208 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.03 min

Lab File: VF061506.D

Acq: 24 Jan 2019 18:04

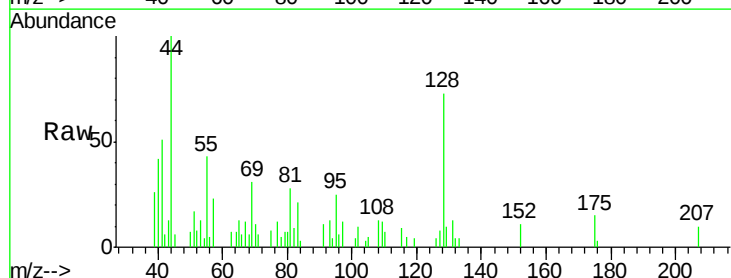
Tgt Ion:128 Resp: 3875

Ion Ratio Lower Upper

128 100

127 11.4 9.5 14.3

129 13.2 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->

