

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF012319\
 Data File : VF061483.D
 Acq On : 23 Jan 2019 15:20
 Operator : VA/AP
 Sample : K1223-01
 Misc : 4.70g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-M

Quant Time: Jan 24 02:55:11 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	4.86	168	187505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	334113	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	236349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	79626	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	91975	39.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	79.46%		
35) Dibromofluoromethane	4.10	113	120846	45.84	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.68%		
50) Toluene-d8	7.54	98	272896	37.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	75.56%		
62) 4-Bromofluorobenzene	11.40	95	97758	28.97	ug/l	0.00
Spiked Amount 50.000			Recovery =	57.94%		

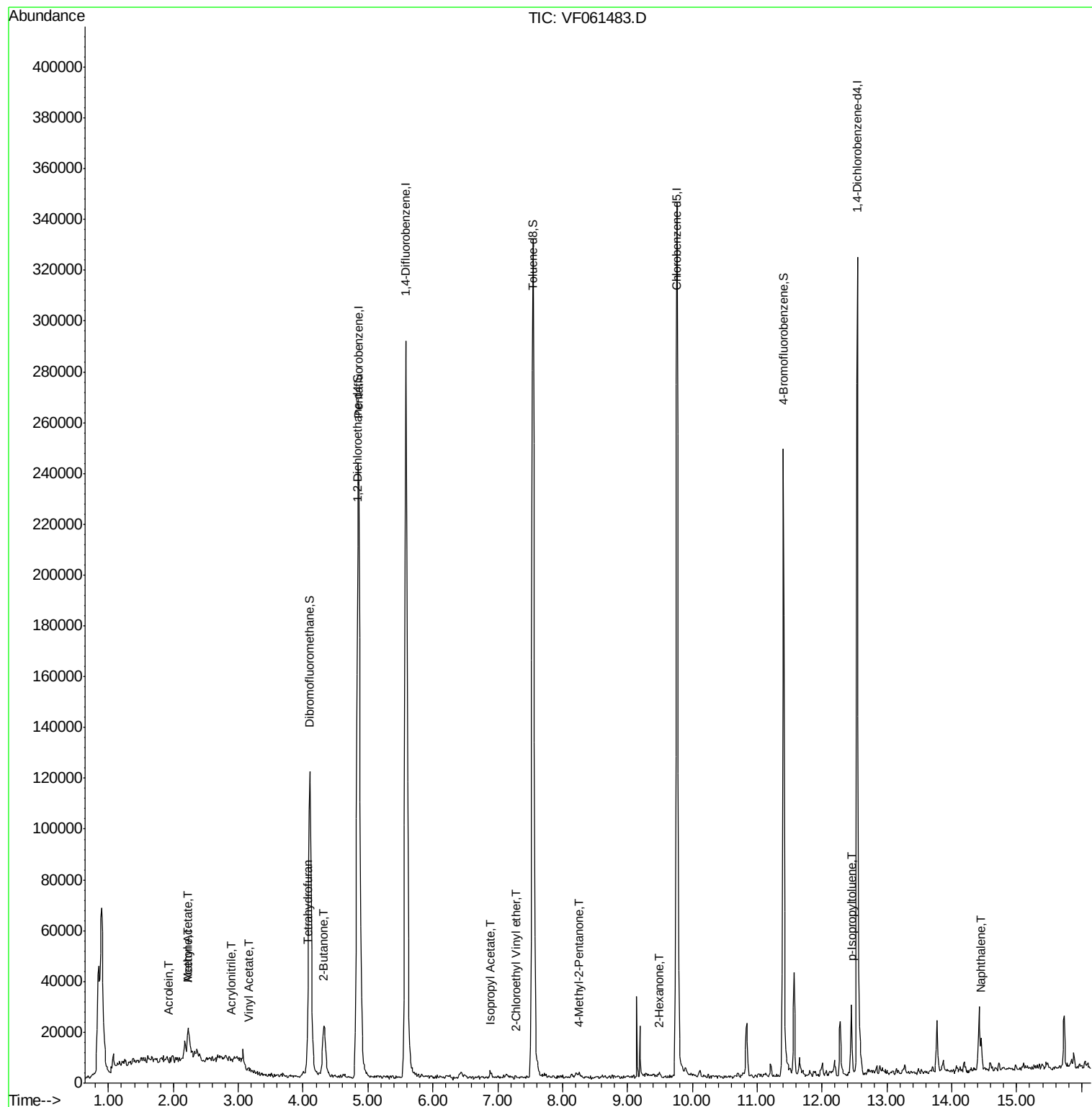
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.93	56	250	13.176	ug/l	93
14) Allyl chloride	2.10	41	382	Below Cal	#	57
15) Acrylonitrile	2.91	53	532	2.120	ug/l #	68
16) Acetone	2.23	43	15868	34.168	ug/l	97
18) Methyl Acetate	2.23	43	15376	16.695	ug/l #	61
23) Vinyl Acetate	3.17	43	262	3.293	ug/l #	78
25) 2-Butanone	4.33	43	41637	53.913	ug/l	98
29) Tetrahydrofuran	4.06	42	514	1.546	ug/l #	38
43) Isopropyl Acetate	6.88	43	4721	2.429	ug/l #	51
49) 1,4-Dioxane	6.25	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.26	43	1845	1.291	ug/l #	39
58) 2-Chloroethyl Vinyl ether	7.28	63	82	27.889	ug/l #	47
59) 2-Hexanone	9.50	43	2079	2.087	ug/l	70
86) p-Isopropyltoluene	12.46	119	14396	2.387	ug/l	96
95) Naphthalene	14.45	128	4229	1.242	ug/l	95

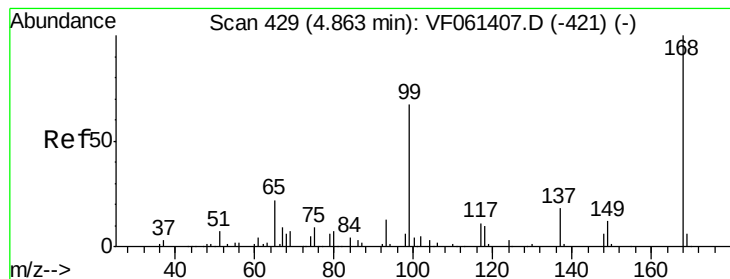
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

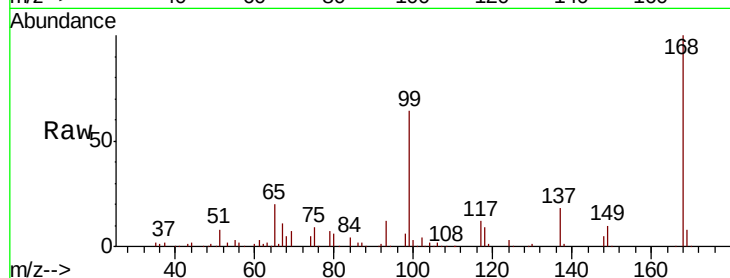
TS-M

Tgt Ion: 168 Resp: 187505

Ion Ratio Lower Upper

168 100

99 64.1 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

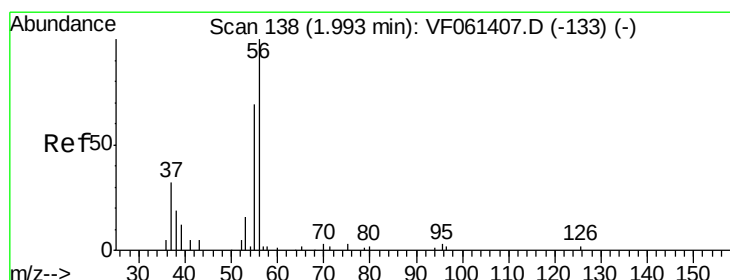
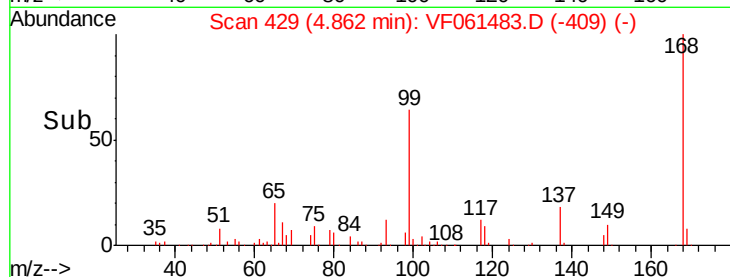
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 13.176 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.06 min

Lab File: VF061483.D

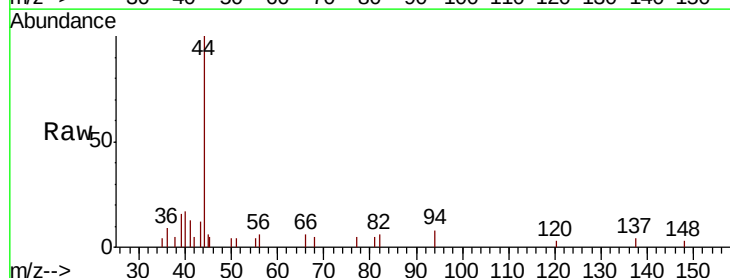
Acq: 23 Jan 2019 15:20

Tgt Ion: 56 Resp: 250

Ion Ratio Lower Upper

56 100

55 65.8 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

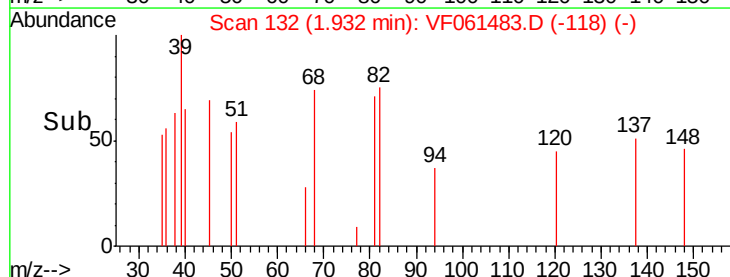
300

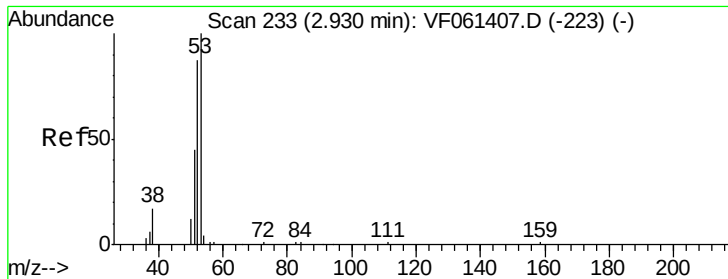
200

100

0

Time-->





#15

Acrylonitrile

Concen: 2.120 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.02 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

TS-M

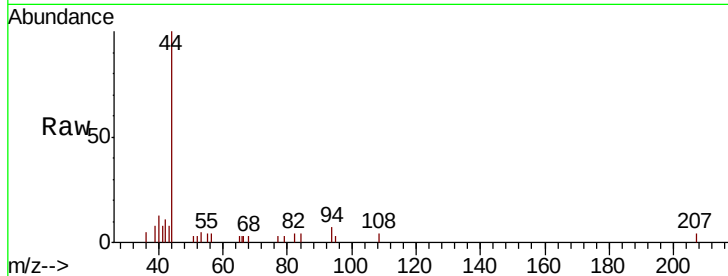
Tgt Ion: 53 Resp: 532

Ion Ratio Lower Upper

53 100

52 56.1 69.6 104.4#

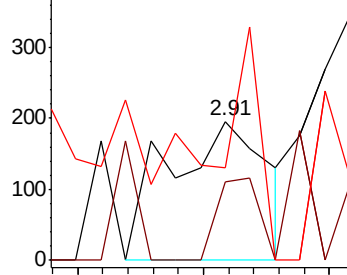
51 66.3 36.8 55.2#



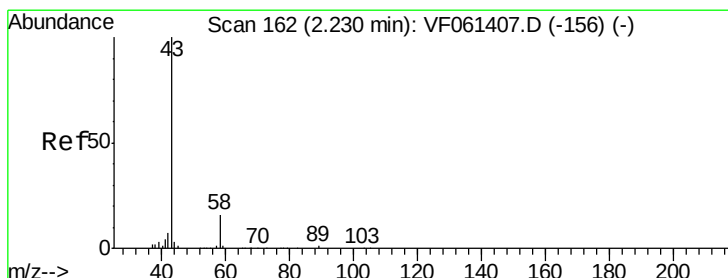
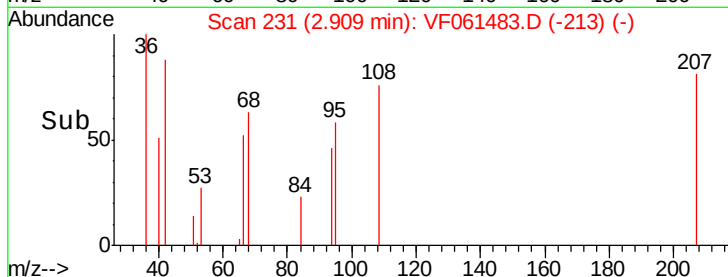
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 34.168 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061483.D

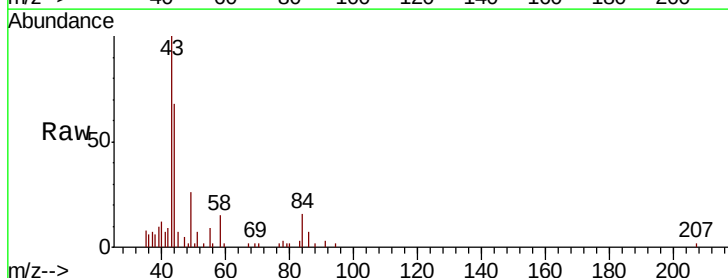
Acq: 23 Jan 2019 15:20

Tgt Ion: 43 Resp: 15868

Ion Ratio Lower Upper

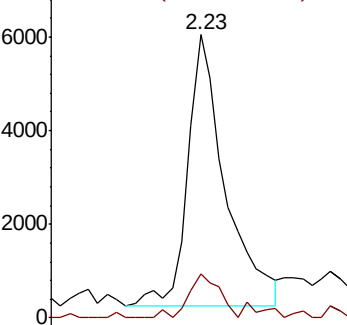
43 100

58 15.4 13.3 19.9

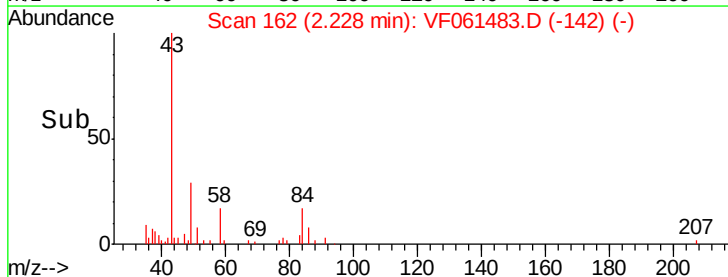


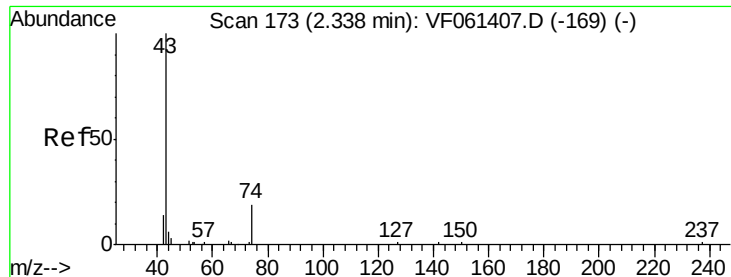
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

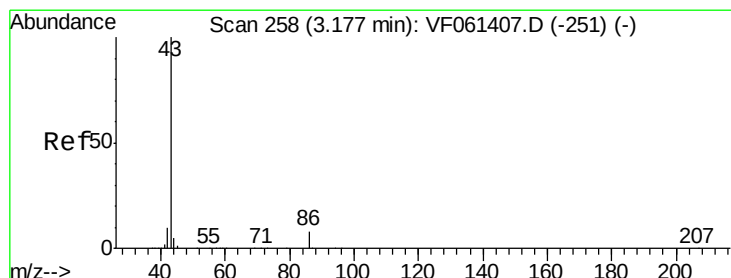
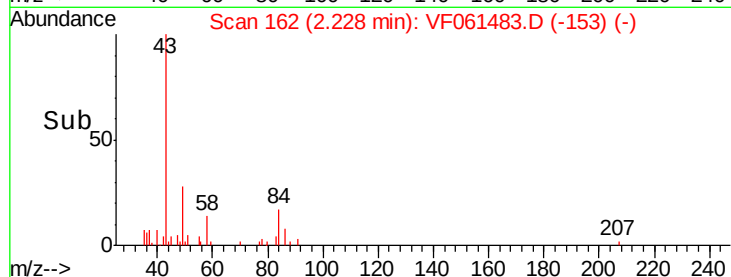
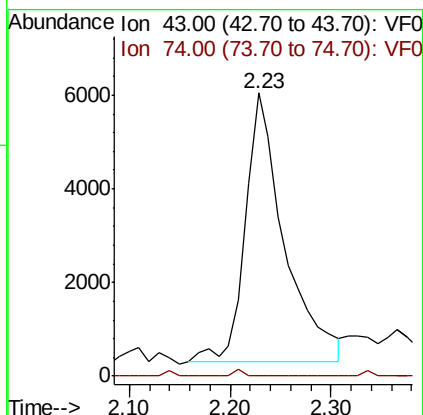
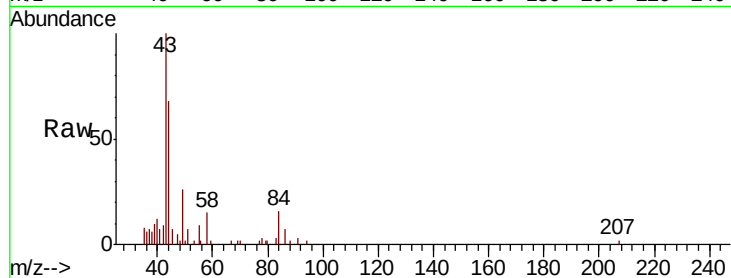




#18
Methyl Acetate
Concen: 16.695 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.11 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

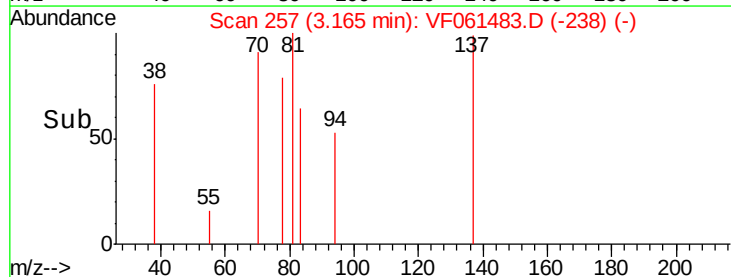
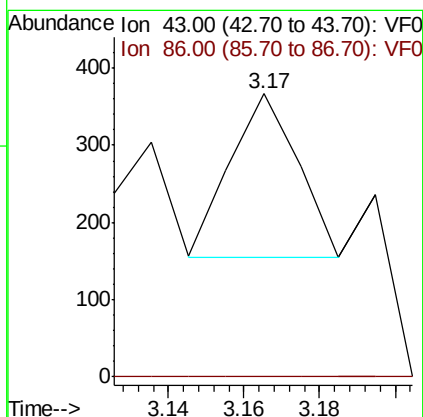
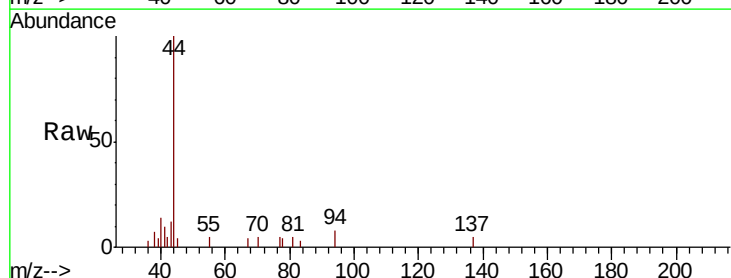
Instrument :
MSVOA_F
ClientSampleId :
TS-M

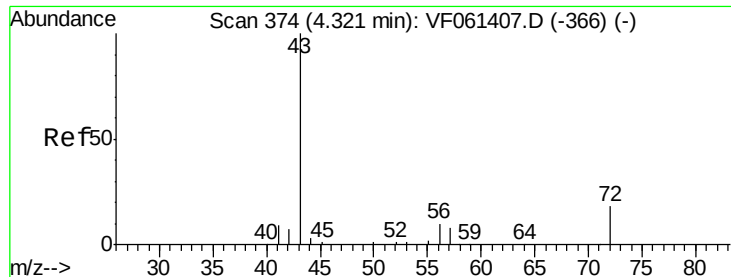
Tgt Ion: 43 Resp: 15376
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.293 ug/l
RT: 3.17 min Scan# 257
Delta R.T. -0.01 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Tgt Ion: 43 Resp: 262
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 53.913 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

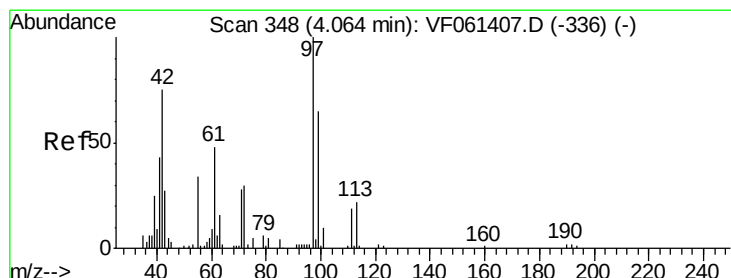
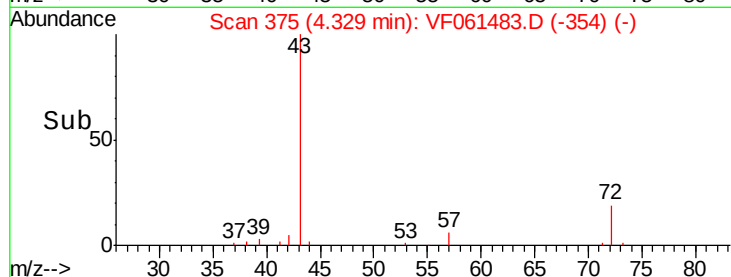
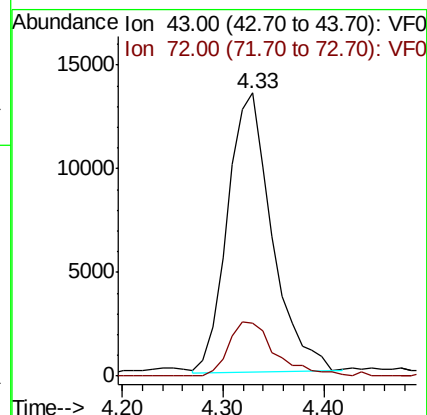
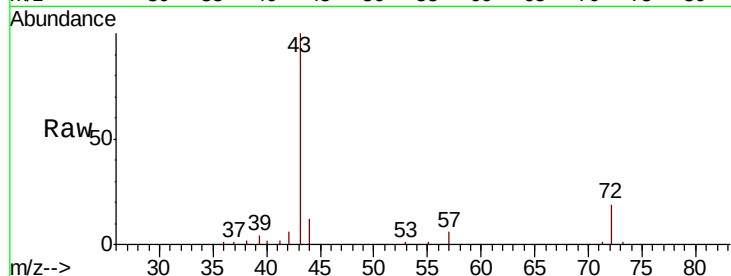
TS-M

Tgt Ion: 43 Resp: 41637

Ion Ratio Lower Upper

43 100

72 18.7 15.8 23.6



#29

Tetrahydrofuran

Concen: 1.546 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

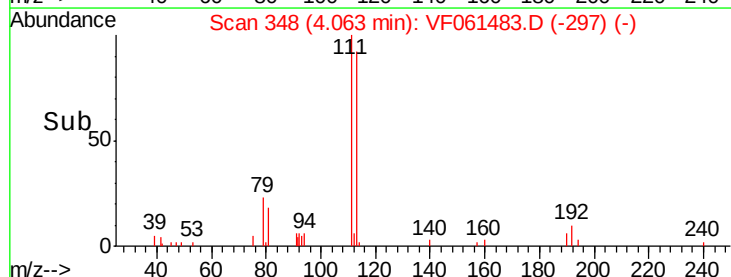
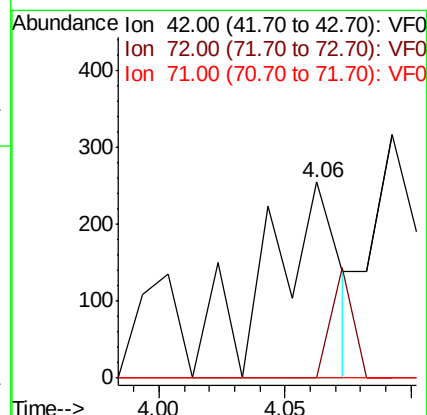
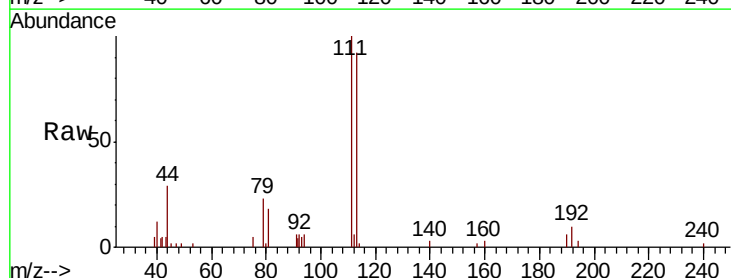
Tgt Ion: 42 Resp: 514

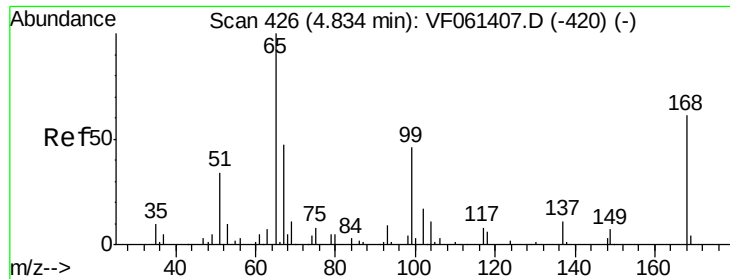
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 0.0 29.6 44.4#

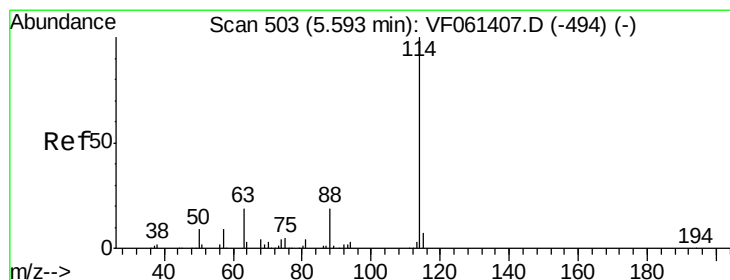
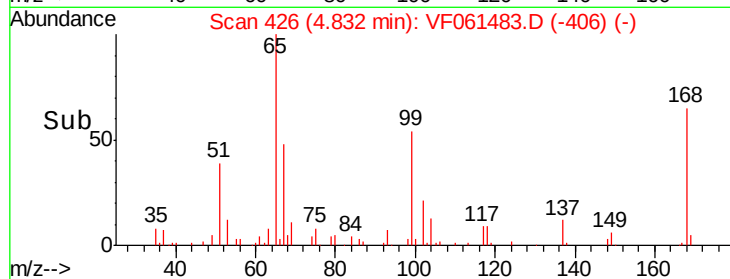
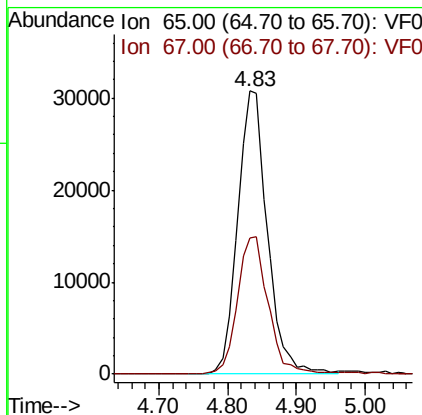
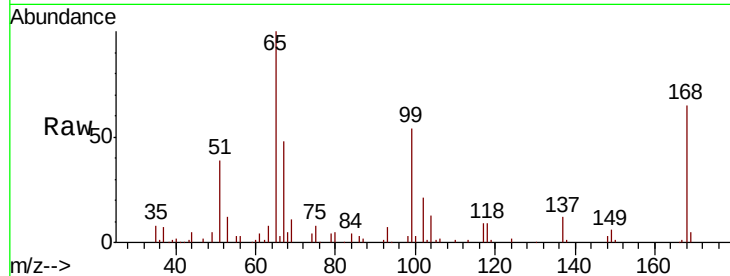




#33
 1,2-Dichloroethane-d4
 Concen: 39.730 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: VF061483.D
 Acq: 23 Jan 2019 15:20

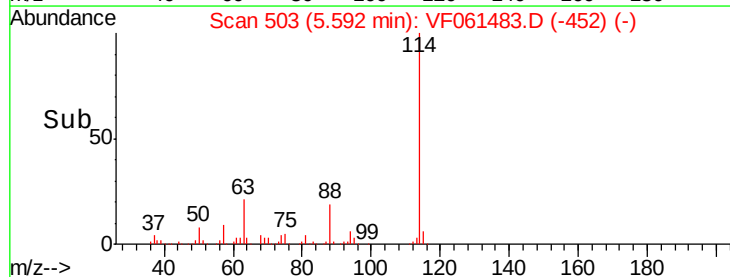
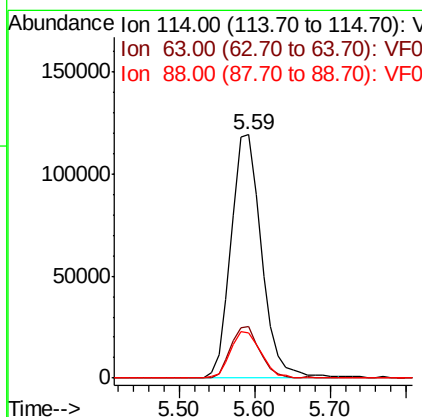
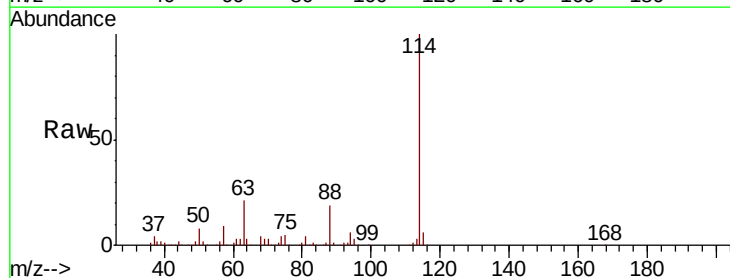
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-M

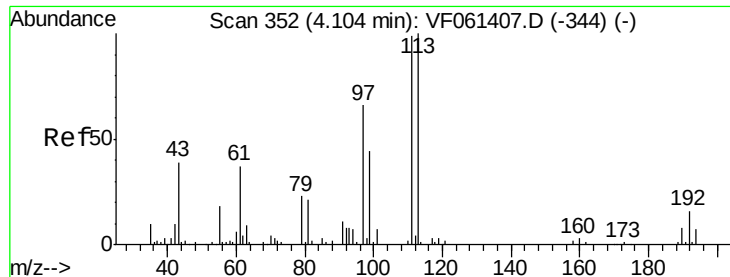
Tgt Ion: 65 Resp: 91975
 Ion Ratio Lower Upper
 65 100
 67 47.9 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061483.D
 Acq: 23 Jan 2019 15:20

Tgt Ion: 114 Resp: 334113
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 39.0
 88 18.6 0.0 37.4





#35

Dibromofluoromethane

Concen: 45.837 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

TS-M

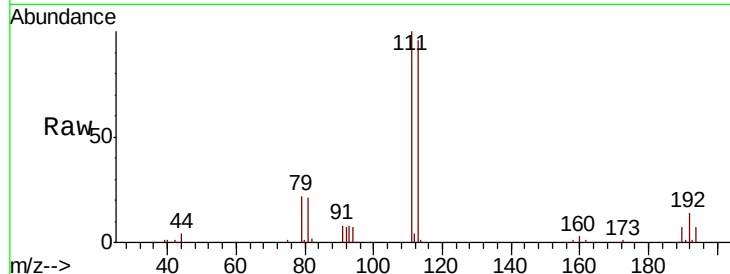
Tgt Ion: 113 Resp: 120846

Ion Ratio Lower Upper

113 100

111 104.2 79.4 119.0

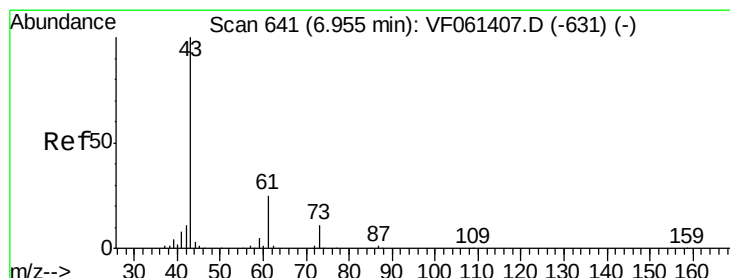
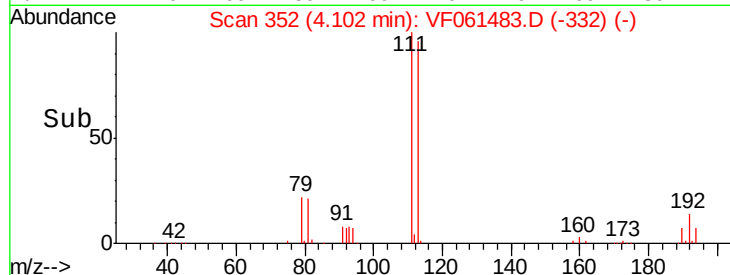
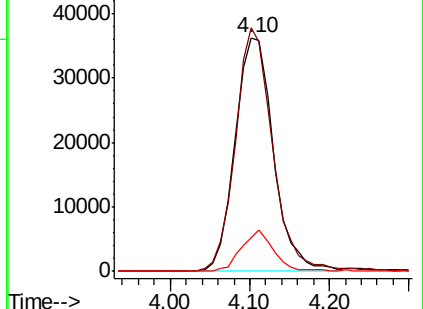
192 14.2 12.4 18.6



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: 2.429 ug/l

RT: 6.88 min Scan# 634

Delta R.T. -0.07 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

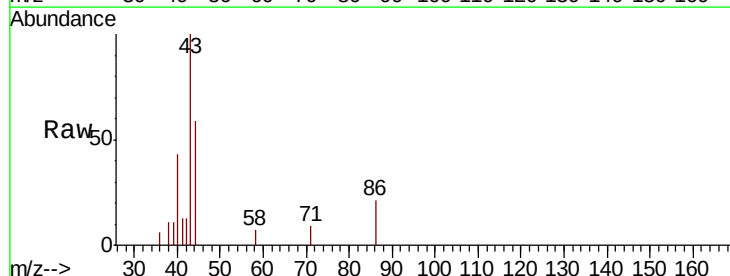
Tgt Ion: 43 Resp: 4721

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

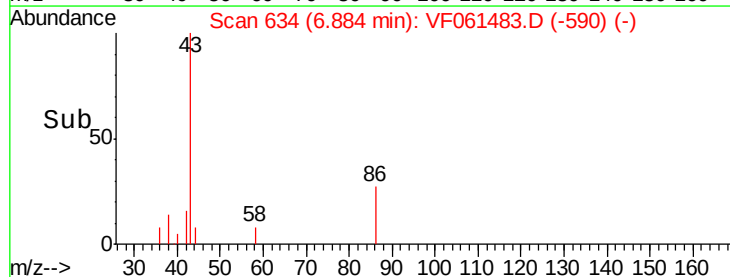
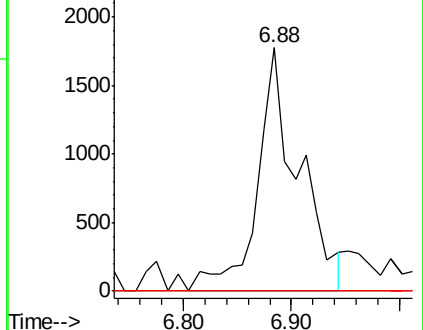
87 0.0 0.5 0.7#

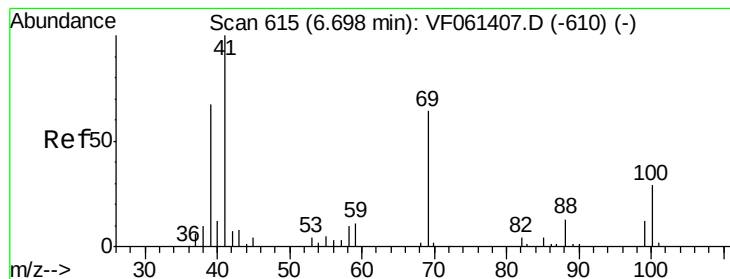


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.25 min Scan# 570

Delta R.T. -0.45 min

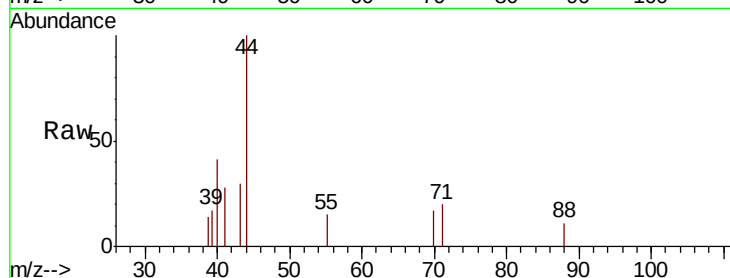
Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

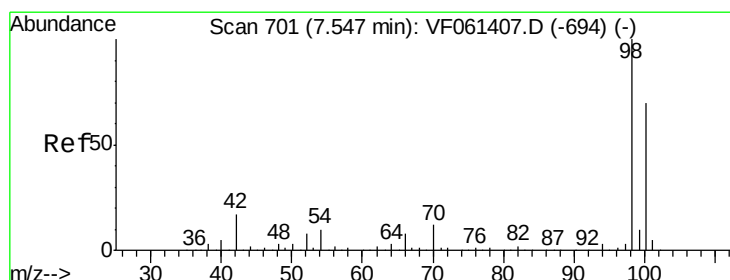
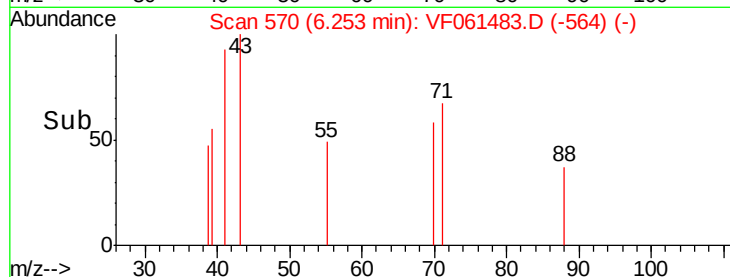
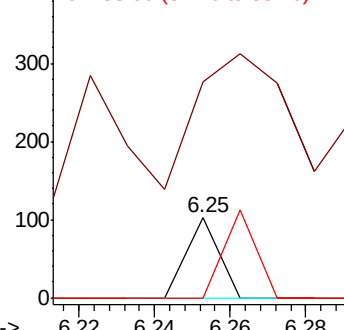
Instrument :
MSVOA_F
ClientSampleId :
TS-M

Tgt Ion: 88 Resp: 60

Ion	Ratio	Lower	Upper
88	100		
43	270.6	55.5	83.3#
58	0.0	59.9	89.9#



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: 37.780 ug/l

RT: 7.54 min Scan# 701

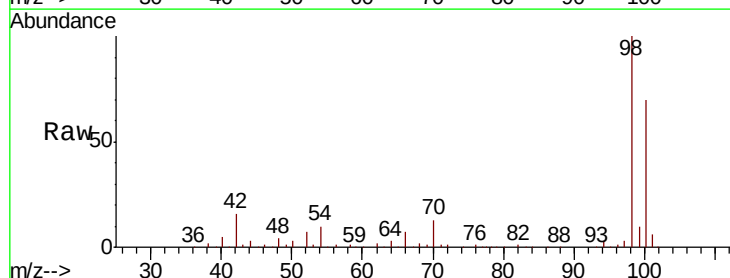
Delta R.T. -0.00 min

Lab File: VF061483.D

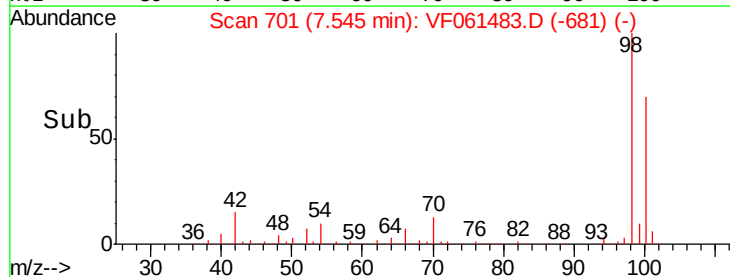
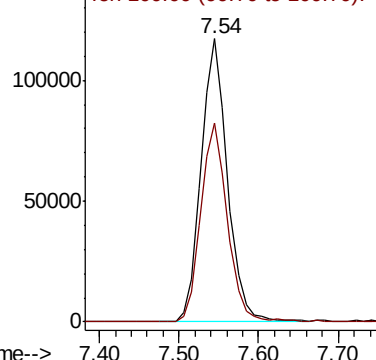
Acq: 23 Jan 2019 15:20

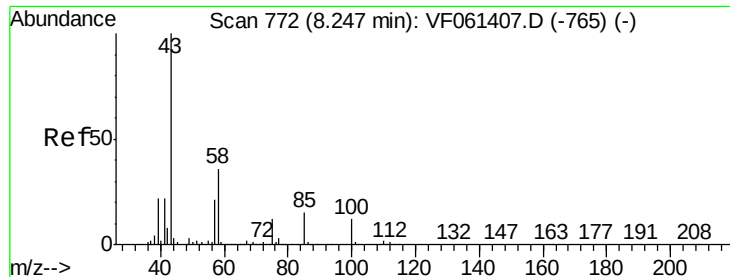
Tgt Ion: 98 Resp: 272896

Ion	Ratio	Lower	Upper
98	100		
100	70.1	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: 1.291 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061483.D

Acq: 23 Jan 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

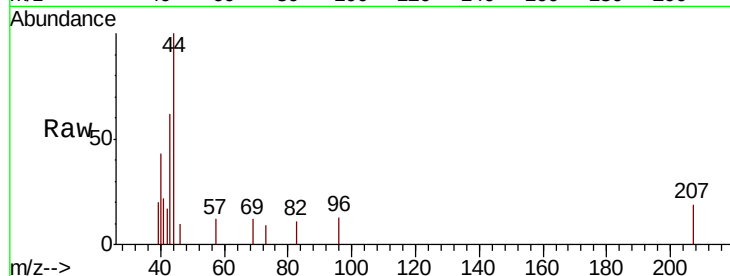
TS-M

Tgt Ion: 43 Resp: 1845

Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

800

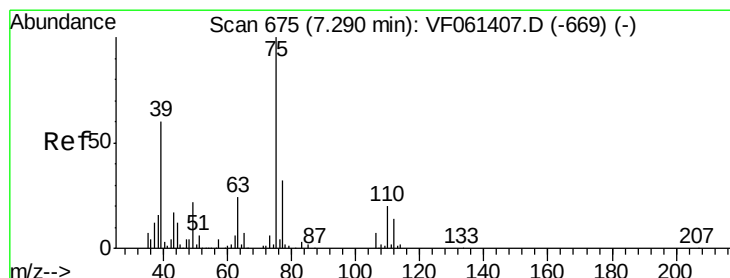
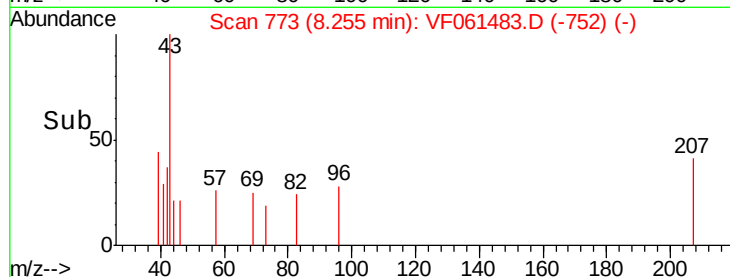
600

400

200

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 27.889 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061483.D

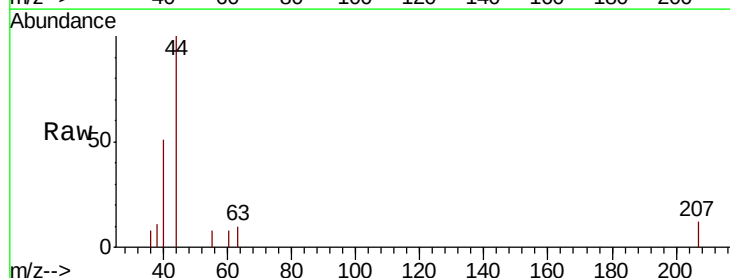
Acq: 23 Jan 2019 15:20

Tgt Ion: 63 Resp: 82

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

7.28

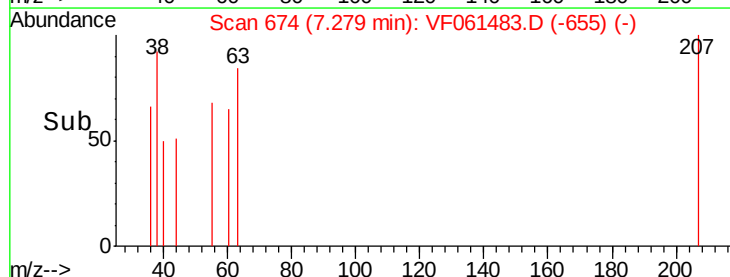
150

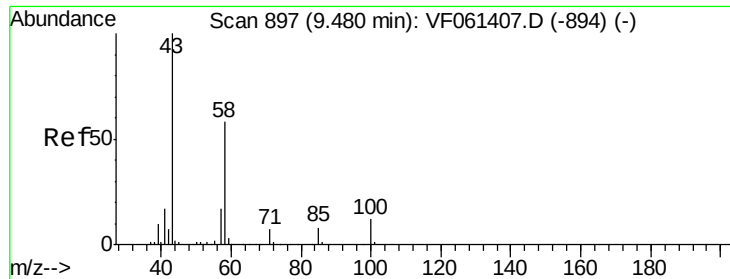
100

50

0

Time-->

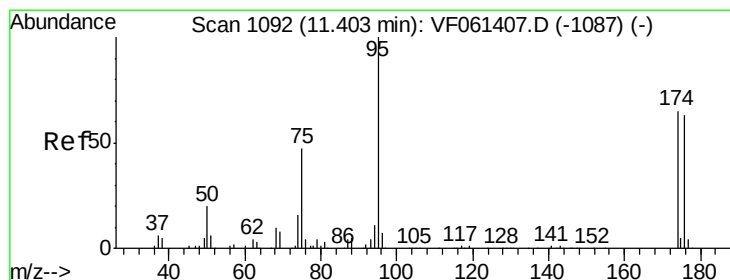
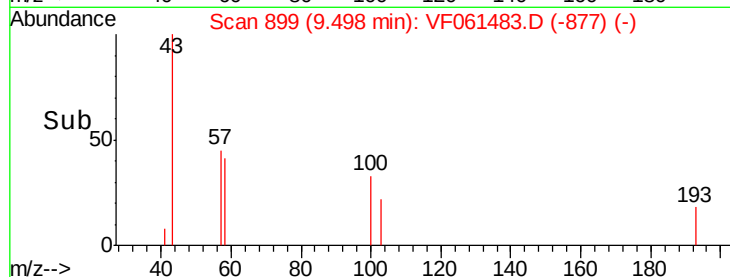
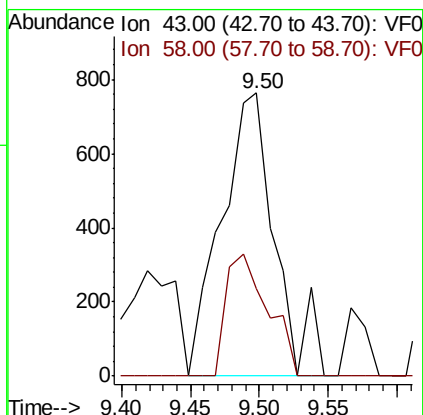
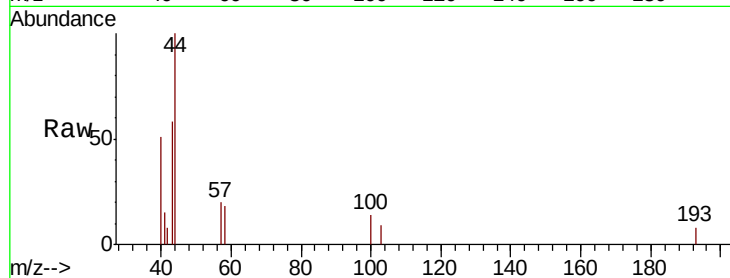




#59
2-Hexanone
Concen: 2.087 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.02 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

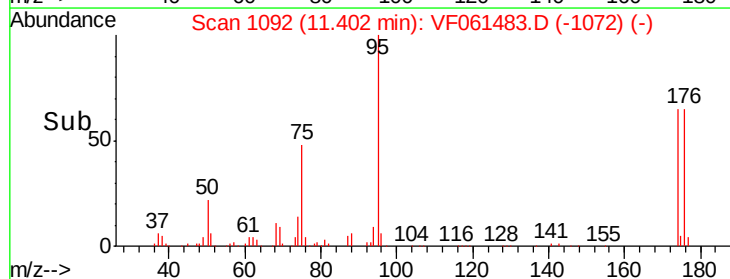
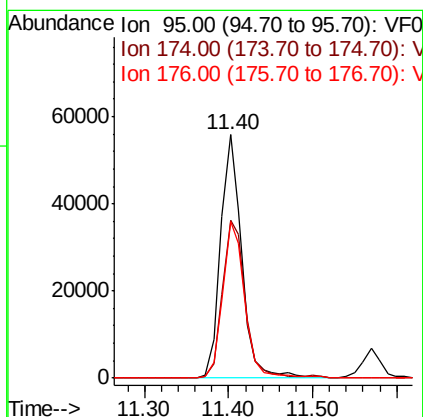
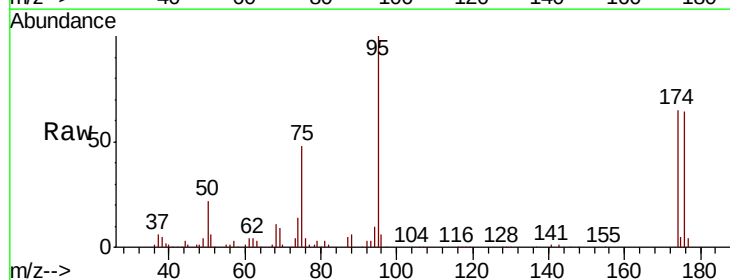
Instrument :
MSVOA_F
ClientSampled :
TS-M

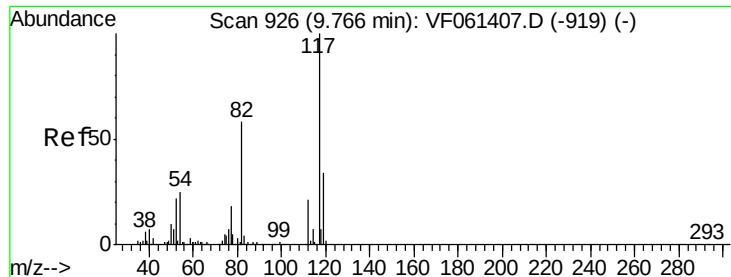
Tgt Ion: 43 Resp: 2079
Ion Ratio Lower Upper
43 100
58 30.8 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 28.966 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Tgt Ion: 95 Resp: 97758
Ion Ratio Lower Upper
95 100
174 64.8 0.0 130.4
176 64.3 0.0 126.2

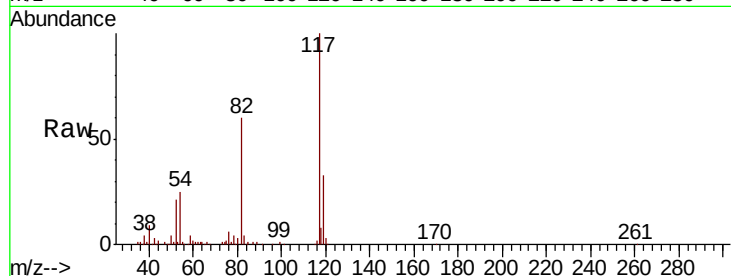




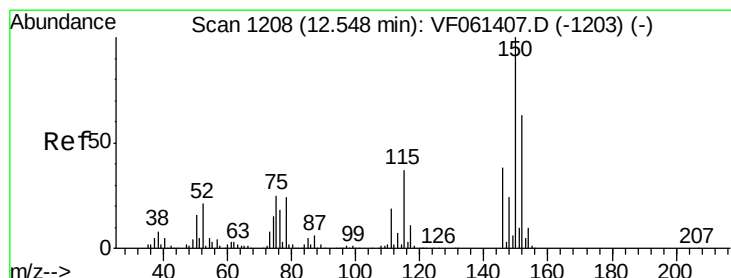
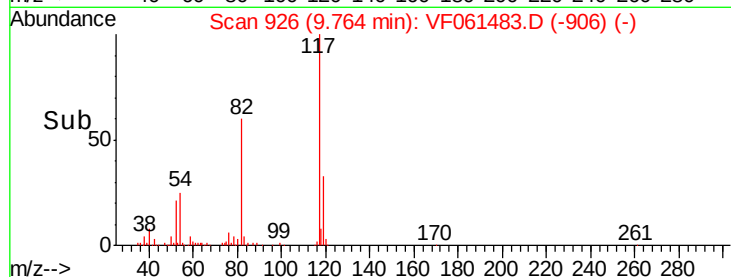
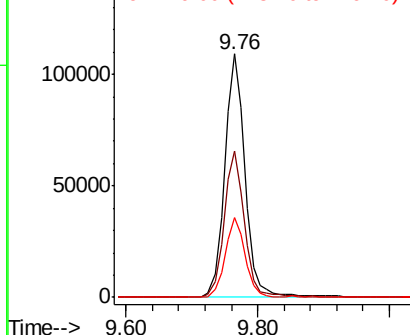
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Instrument :
MSVOA_F
ClientSampleId :
TS-M

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.1	46.4	69.6
119	32.7	27.2	40.8

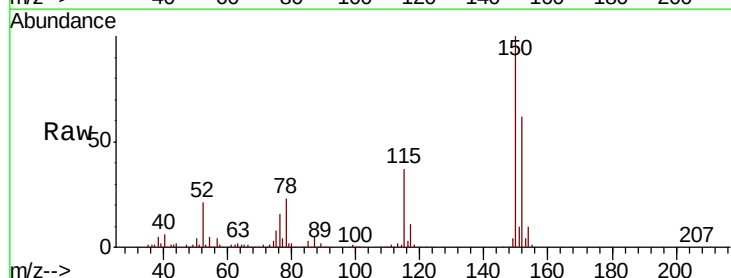


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

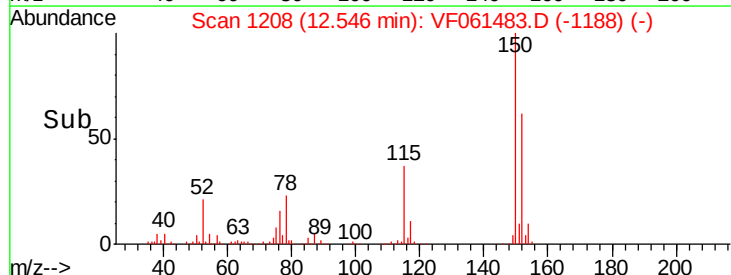
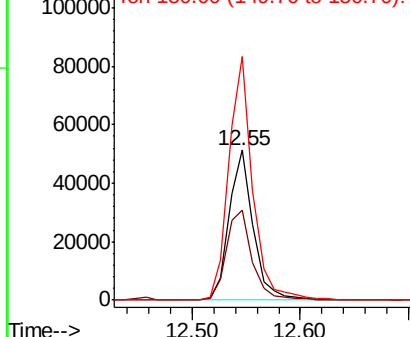


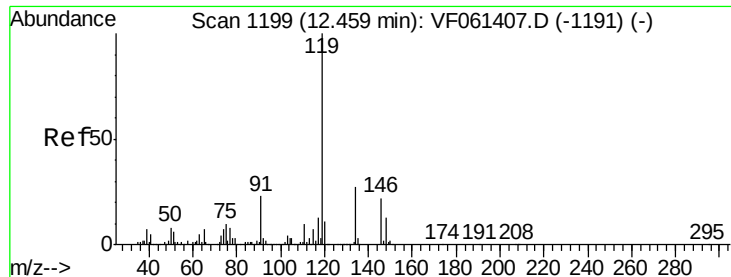
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.0	90.0
150	162.6	0.0	321.4



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

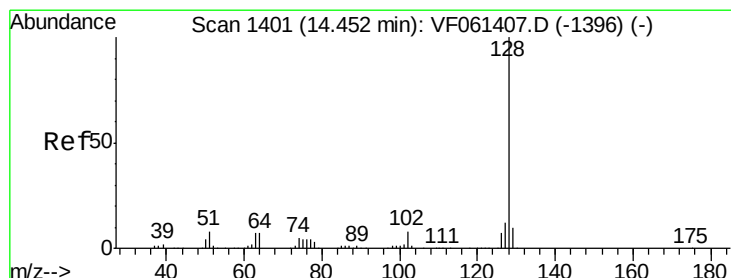
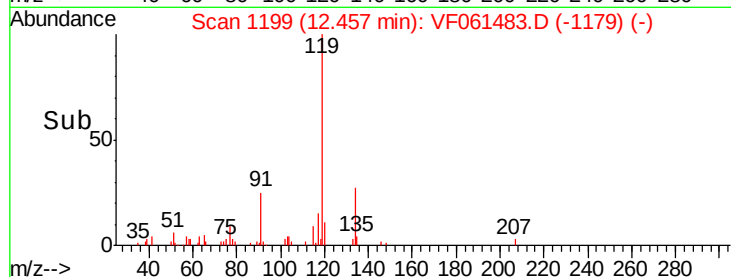
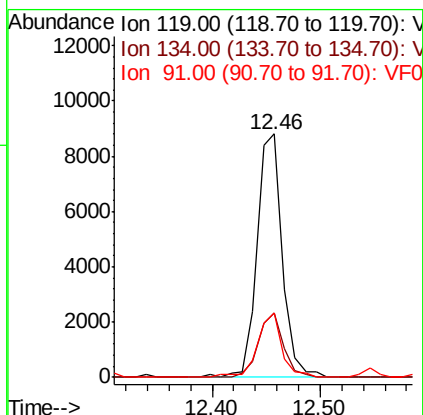
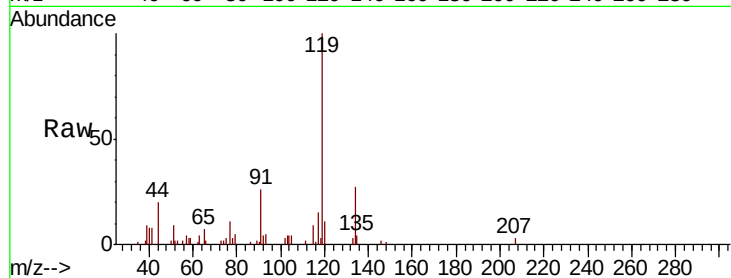




#86
p-Isopropyltoluene
Concen: 2.387 ug/l
RT: 12.46 min Scan# 1199
Delta R.T. -0.00 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Instrument :
MSVOA_F
ClientSampleId :
TS-M

Tgt Ion:	119	Resp:	14396
Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.4	40.2
91	26.3	11.4	34.2



#95
Naphthalene
Concen: 1.242 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061483.D
Acq: 23 Jan 2019 15:20

Tgt Ion:	128	Resp:	4229
Ion	Ratio	Lower	Upper
128	100		
127	9.7	9.5	14.3
129	12.1	8.4	12.6

