

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF020819\
 Data File : VF061563.D
 Acq On : 8 Feb 2019 17:47
 Operator : VA/AP
 Sample : K1442-01
 Misc : 5.22g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VOC-10

Quant Time: Feb 09 04:31:53 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	4.87	168	159696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	282839	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	206945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	72744	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	98442	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
35) Dibromofluoromethane	4.11	113	108872	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
50) Toluene-d8	7.55	98	209893	34.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.66%	
62) 4-Bromofluorobenzene	11.41	95	80469	28.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	56.34%	

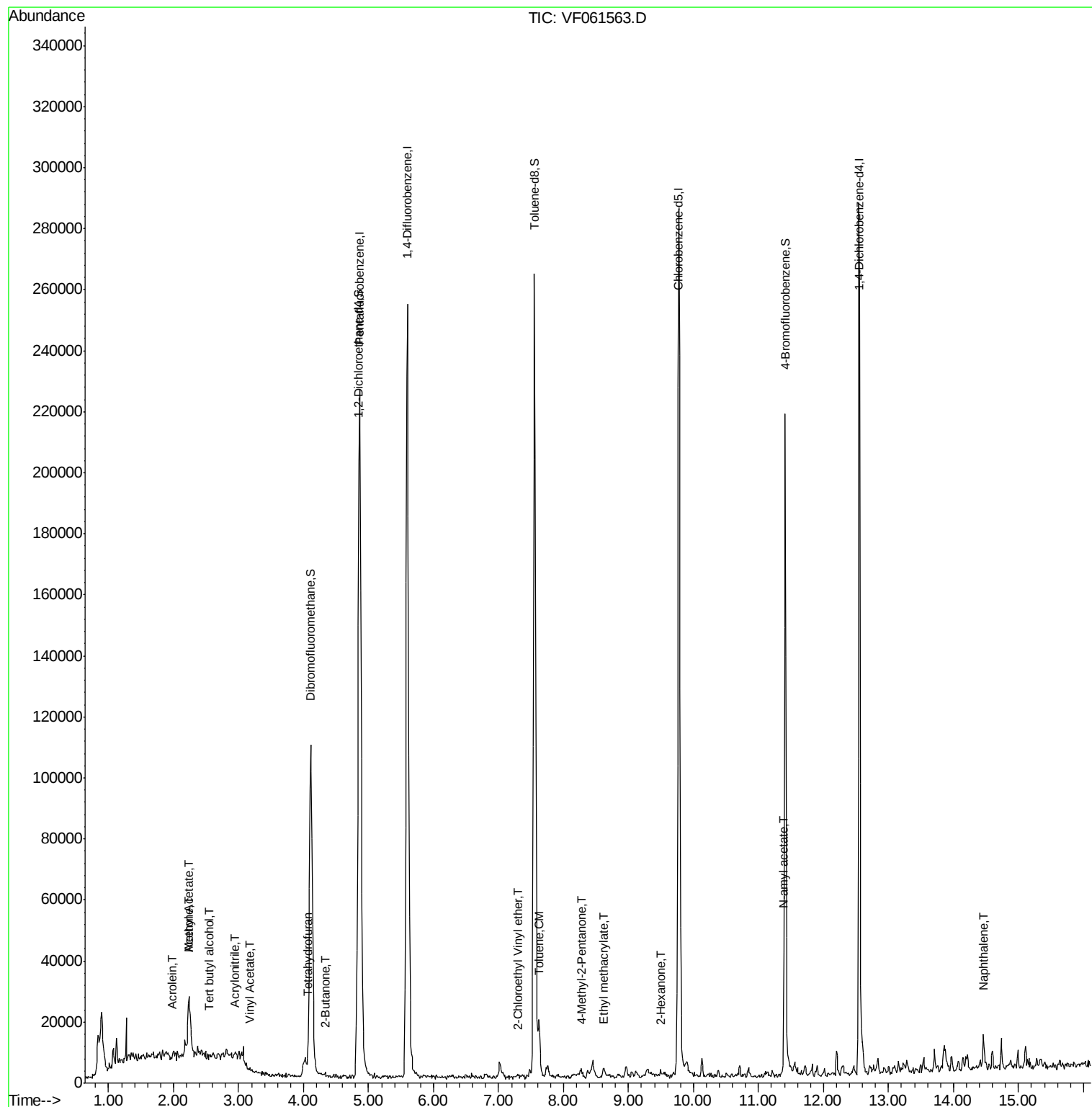
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	519	6.219	ug/l #	64
13) Acrolein	1.97	56	488	16.845	ug/l	97
14) Allyl chloride	2.10	41	94	Below Cal	#	48
15) Acrylonitrile	2.96	53	811	3.794	ug/l #	53
16) Acetone	2.24	43	32812	82.956	ug/l #	90
18) Methyl Acetate	2.24	43	32304	41.182	ug/l #	64
20) Methylene Chloride	2.18	84	1583	Below Cal	#	76
23) Vinyl Acetate	3.16	43	418	3.379	ug/l #	78
25) 2-Butanone	4.34	43	1708	2.597	ug/l #	67
29) Tetrahydrofuran	4.06	42	523	1.847	ug/l #	44
49) 1,4-Dioxane	6.71	88	62	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.27	43	2096	1.733	ug/l #	73
52) Toluene	7.62	92	8505	1.770	ug/l	88
56) Ethyl methacrylate	8.63	69	1641	1.034	ug/l #	75
58) 2-Chloroethyl Vinyl ether	7.31	63	132	28.223	ug/l #	47
59) 2-Hexanone	9.50	43	2668	3.163	ug/l	89
74) N-amyl acetate	11.38	43	1795	1.283	ug/l #	66
95) Naphthalene	14.46	128	6282	2.019	ug/l #	91

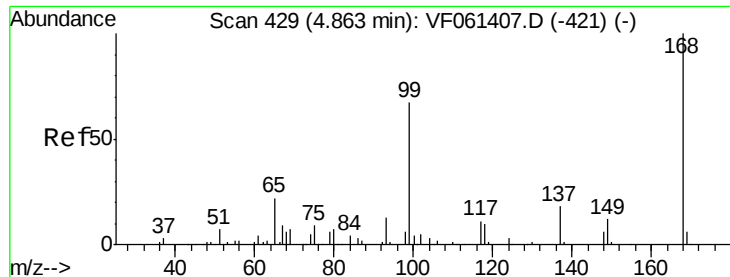
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 04:51:59 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

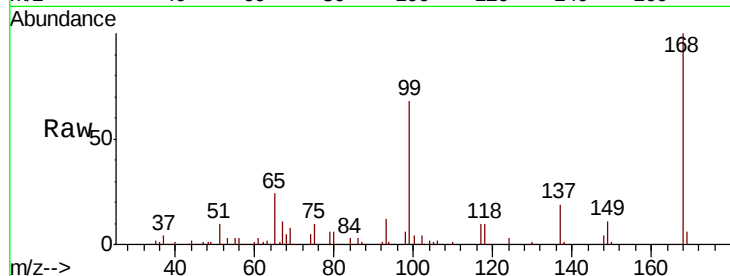
VOC-10

Tgt Ion:168 Resp: 159696

Ion Ratio Lower Upper

168 100

99 67.7 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

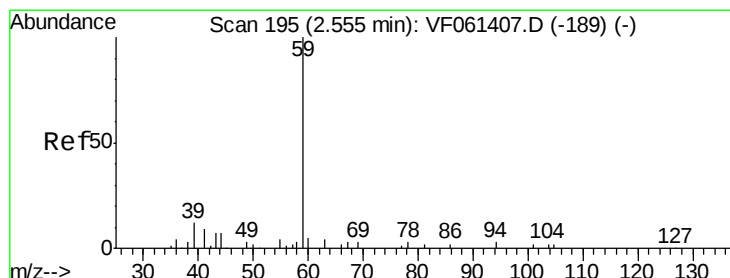
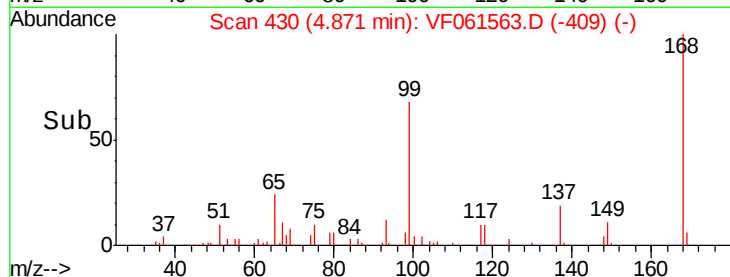
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 6.219 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061563.D

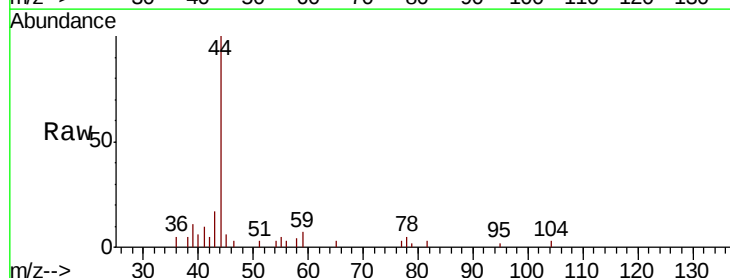
Acq: 8 Feb 2019 17:47

Tgt Ion: 59 Resp: 519

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

400

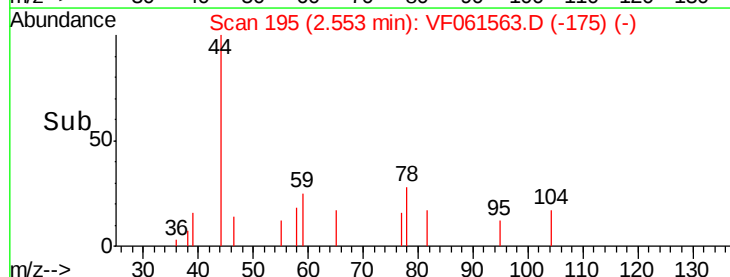
300

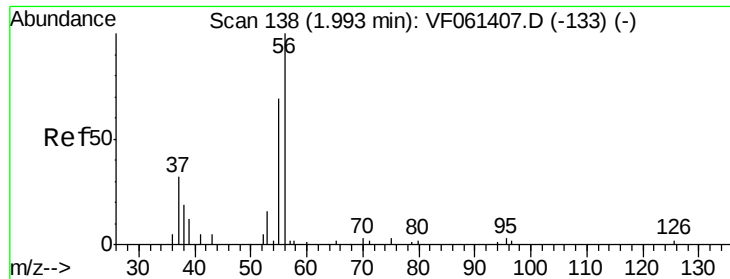
200

100

0

Time--> 2.50 2.52 2.54 2.56 2.58

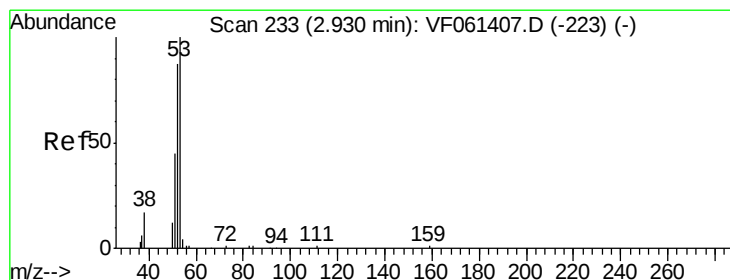
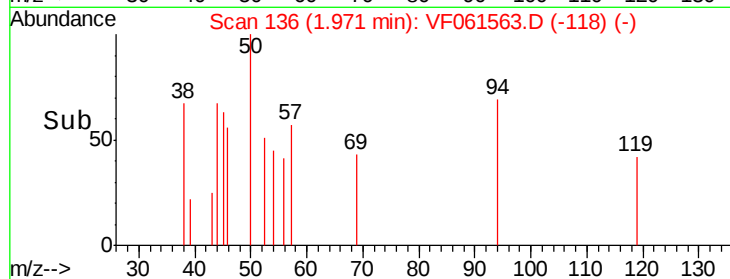
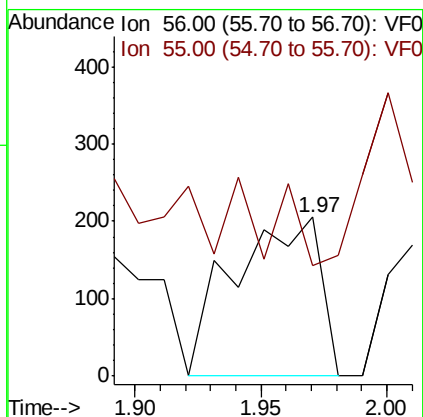
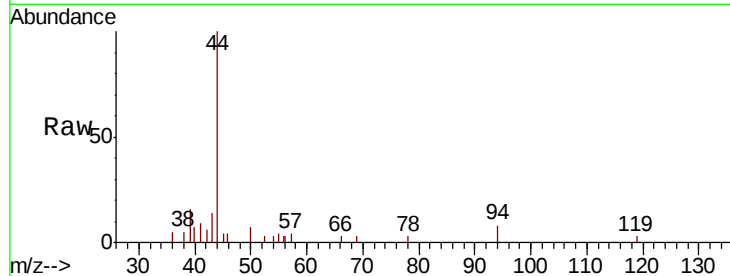




#13
Acrolein
Concen: 16.845 ug/l
RT: 1.97 min Scan# 136
Delta R.T. -0.02 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

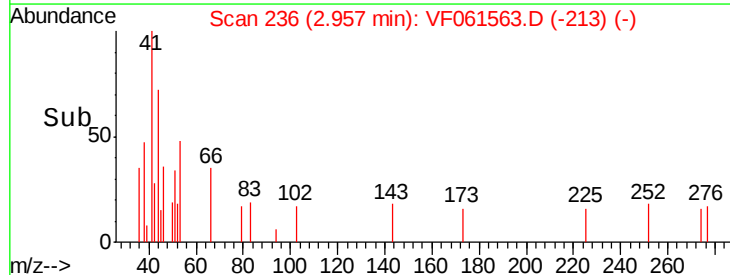
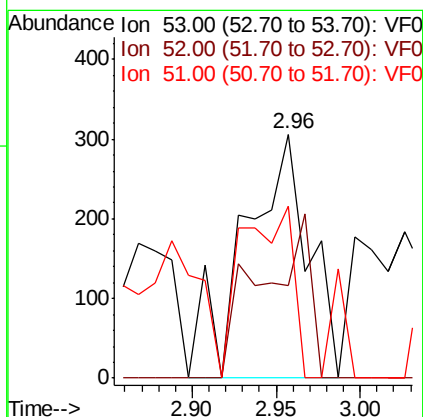
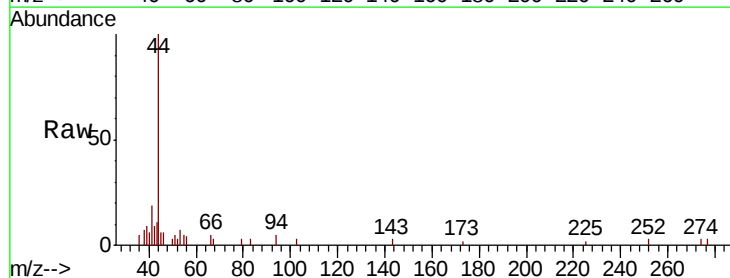
Instrument :
MSVOA_F
ClientSampled :
VOC-10

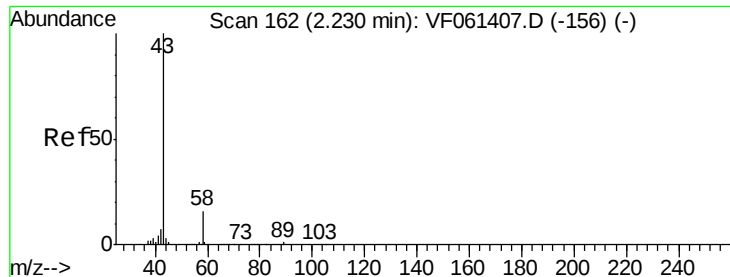
Tgt Ion: 56 Resp: 488
Ion Ratio Lower Upper
56 100
55 69.8 57.5 86.3



#15
Acrylonitrile
Concen: 3.794 ug/l
RT: 2.96 min Scan# 236
Delta R.T. 0.03 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

Tgt Ion: 53 Resp: 811
Ion Ratio Lower Upper
53 100
52 38.2 69.6 104.4#
51 70.6 36.8 55.2#

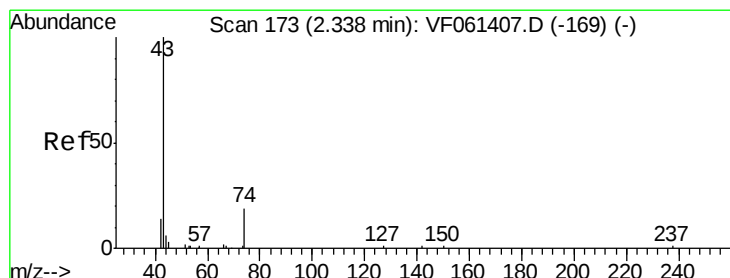
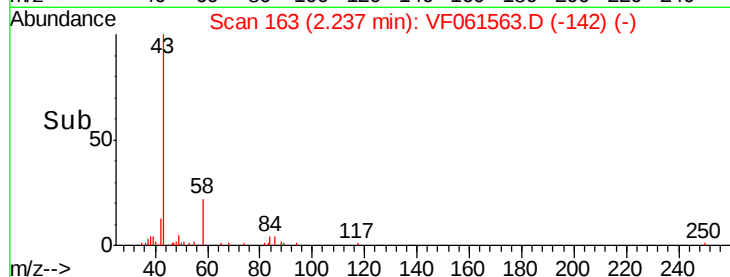
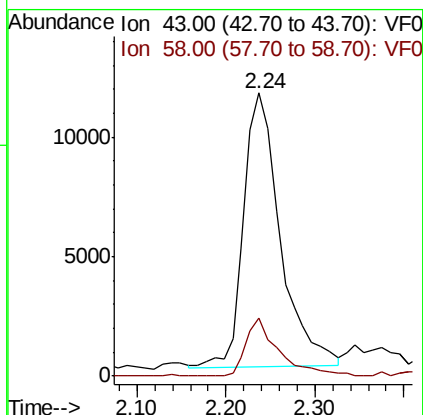
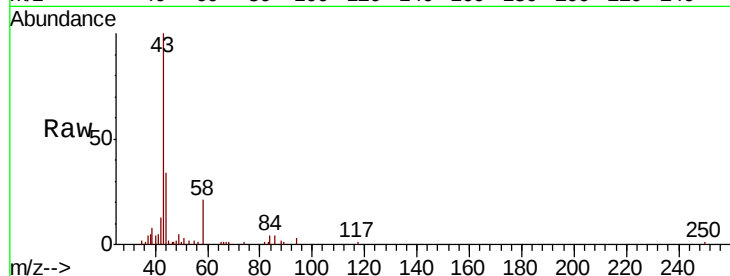




#16
Acetone
Concen: 82.956 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.01 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

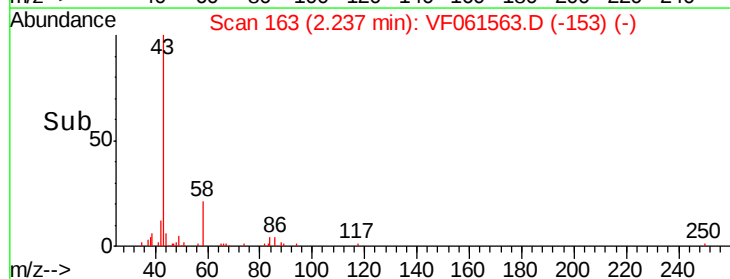
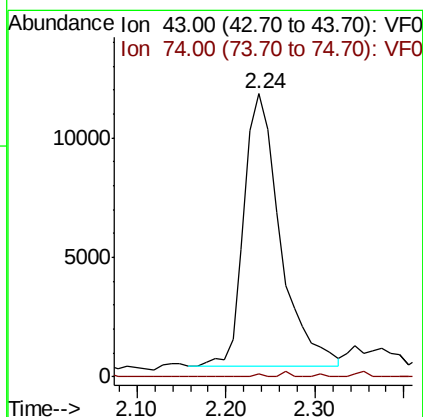
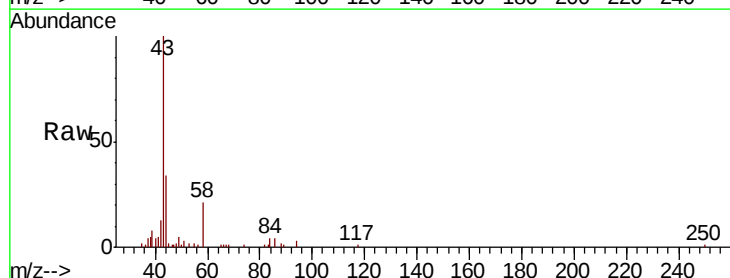
Instrument :
MSVOA_F
ClientSampleId :
VOC-10

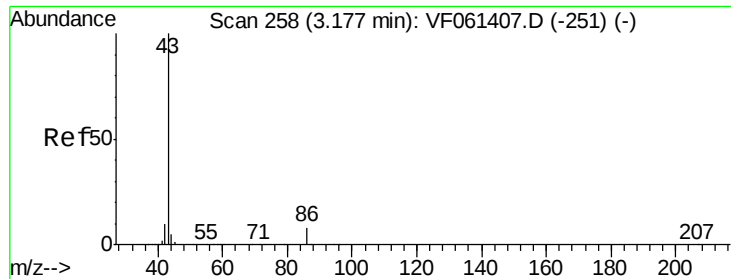
Tgt Ion: 43 Resp: 32812
Ion Ratio Lower Upper
43 100
58 20.7 13.3 19.9#



#18
Methyl Acetate
Concen: 41.182 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.10 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

Tgt Ion: 43 Resp: 32304
Ion Ratio Lower Upper
43 100
74 1.1 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.379 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

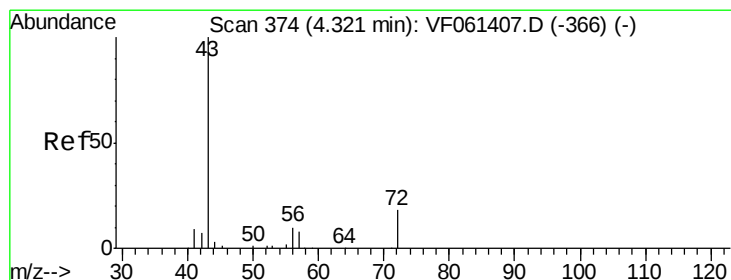
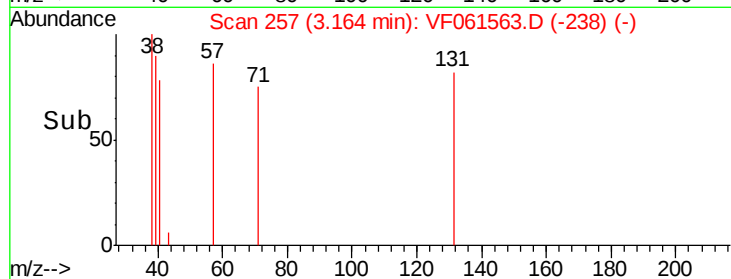
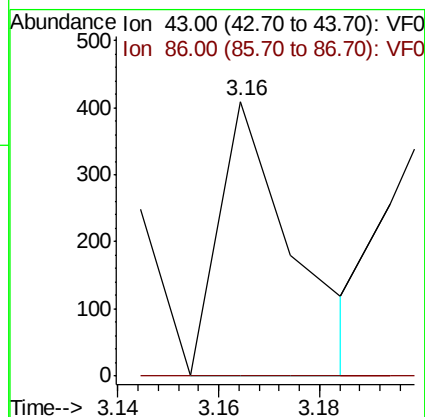
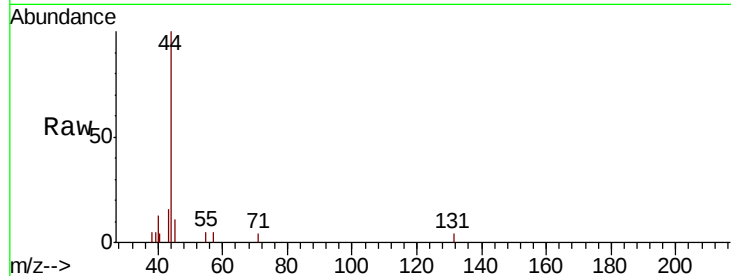
VOC-10

Tgt Ion: 43 Resp: 418

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#25

2-Butanone

Concen: 2.597 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061563.D

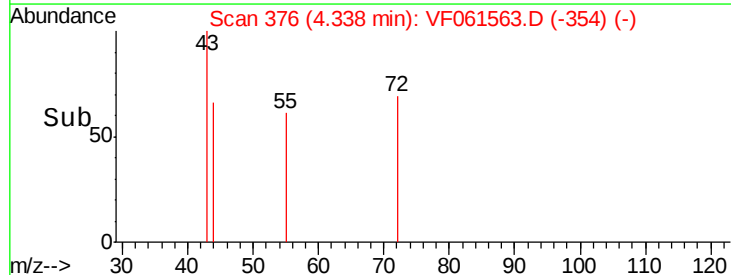
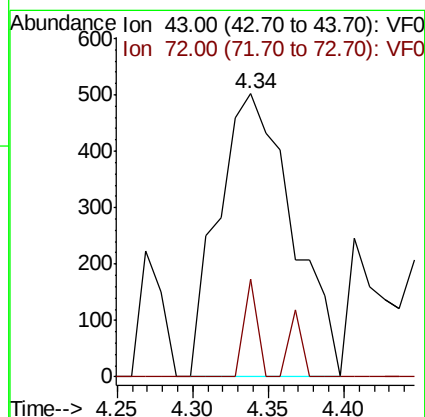
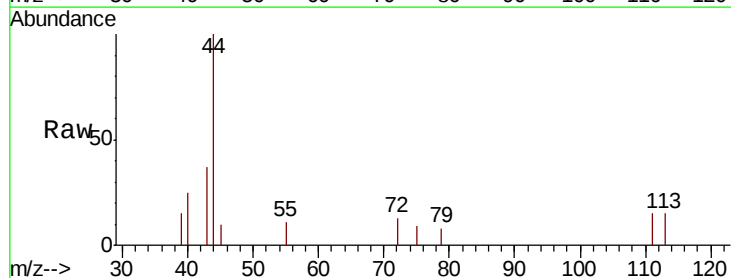
Acq: 8 Feb 2019 17:47

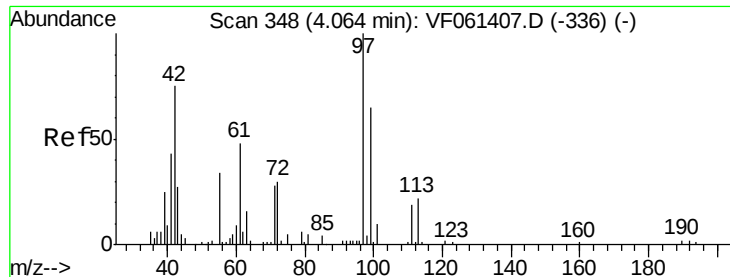
Tgt Ion: 43 Resp: 1708

Ion Ratio Lower Upper

43 100

72 34.7 15.8 23.6#





#29

Tetrahydrofuran

Concen: 1.847 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampled :

VOC-10

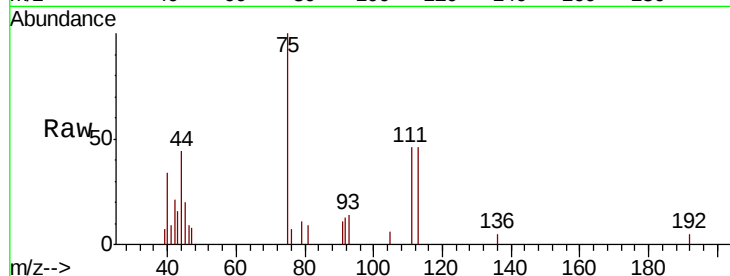
Tgt Ion: 42 Resp: 523

Ion Ratio Lower Upper

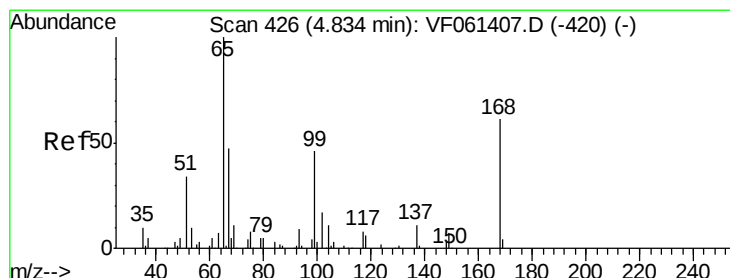
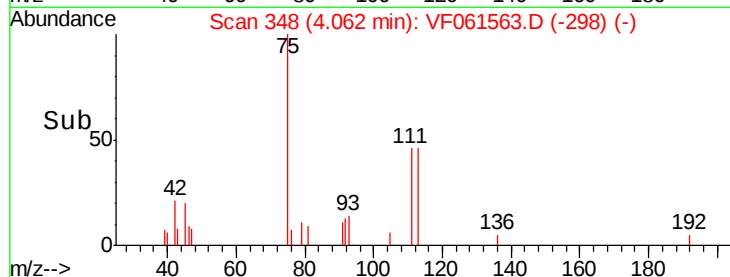
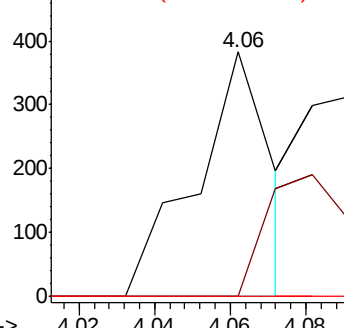
42 100

72 65.6 28.9 43.3#

71 0.0 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: 49.929 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061563.D

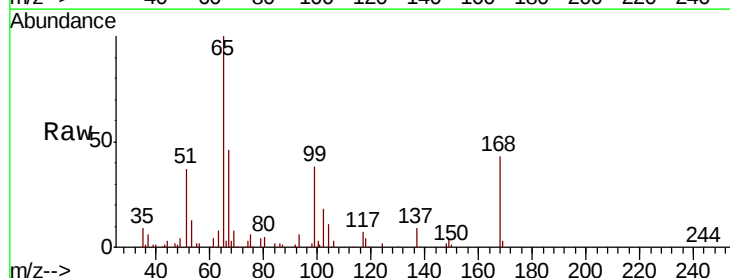
Acq: 8 Feb 2019 17:47

Tgt Ion: 65 Resp: 98442

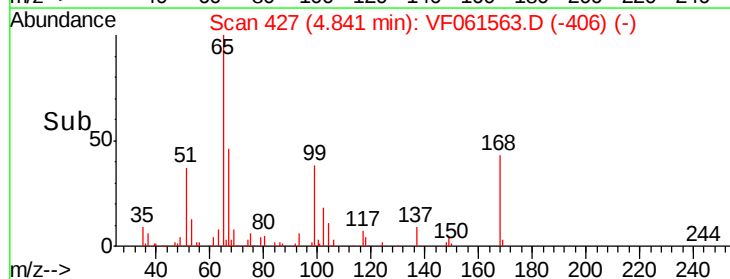
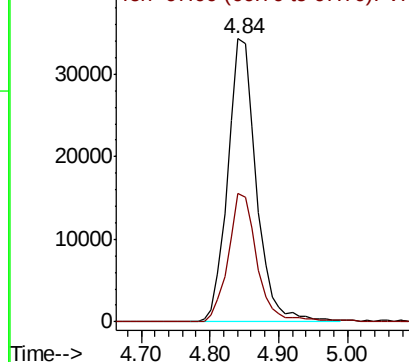
Ion Ratio Lower Upper

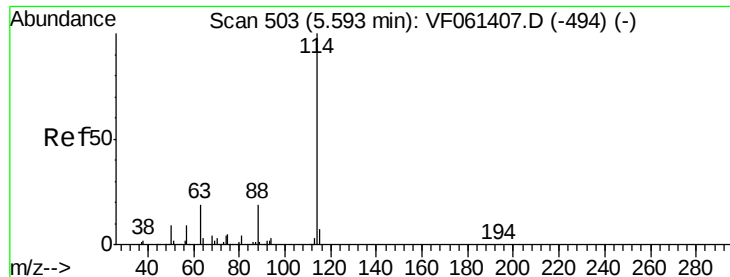
65 100

67 45.5 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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

VOC-10

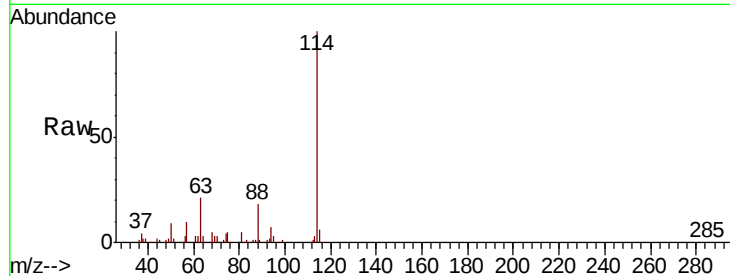
Tgt Ion:114 Resp: 282839

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.0

88 18.2 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

5.60

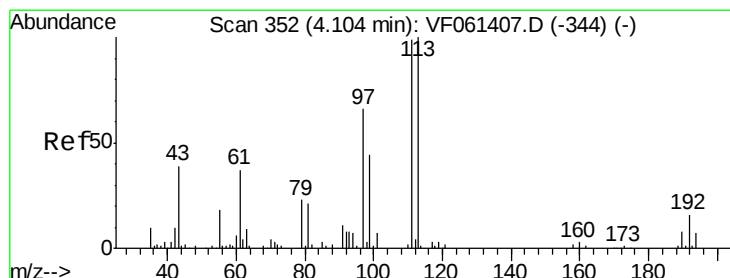
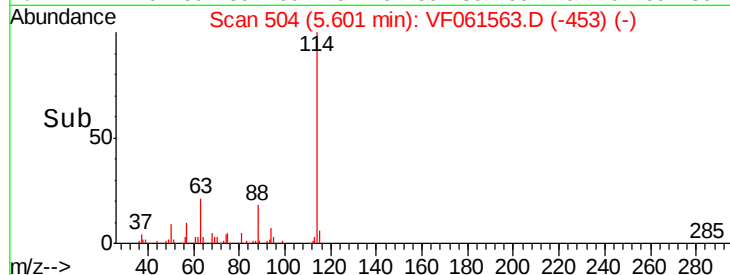
100000

50000

0

Time-->

5.40 5.60 5.80



#35

Dibromofluoromethane

Concen: 48.781 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

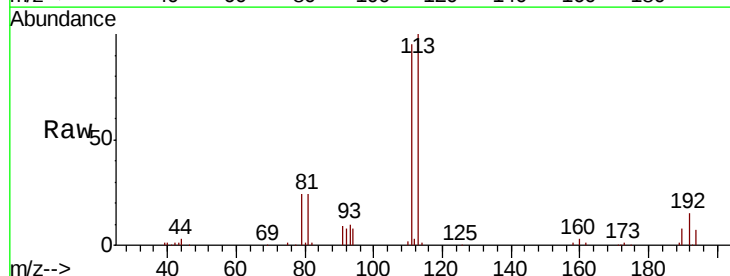
Tgt Ion:113 Resp: 108872

Ion Ratio Lower Upper

113 100

111 95.0 79.4 119.0

192 15.2 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

4.11

40000

30000

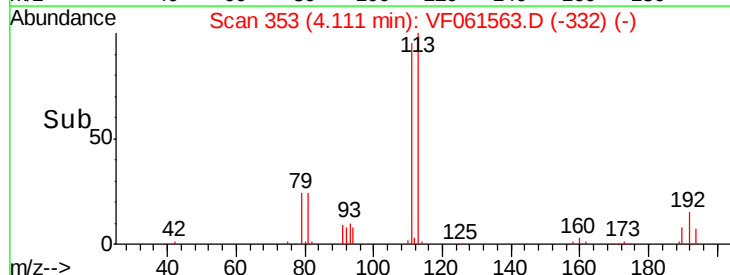
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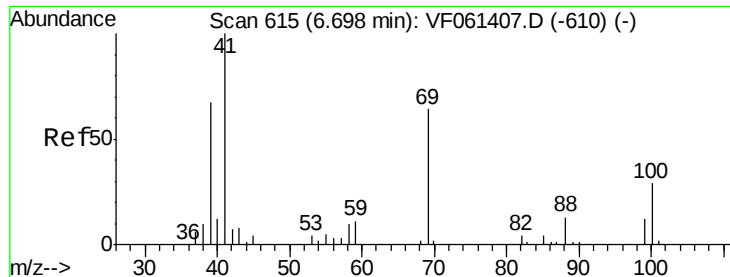
10000

0

Time-->

4.00 4.10 4.20 4.30





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.71 min Scan# 616

Delta R.T. 0.01 min

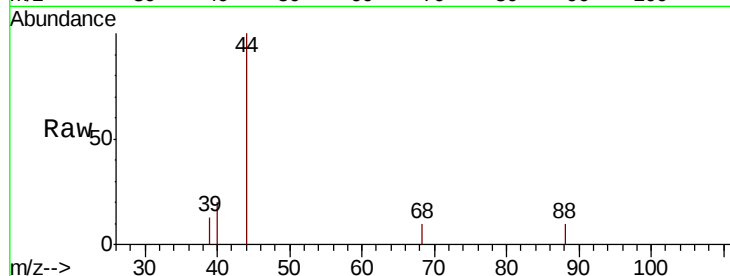
Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :
MSVOA_F
ClientSampleId :
VOC-10

Tgt Ion: 88 Resp: 62

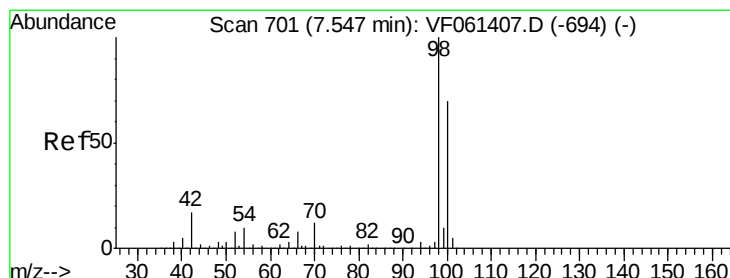
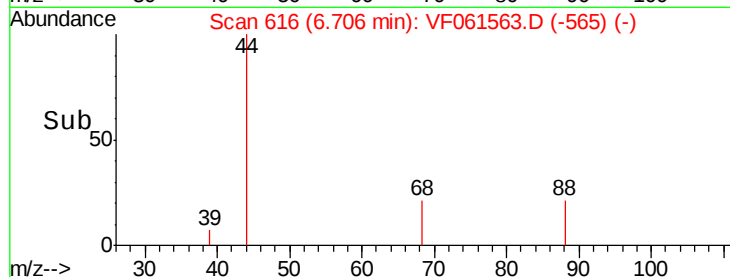
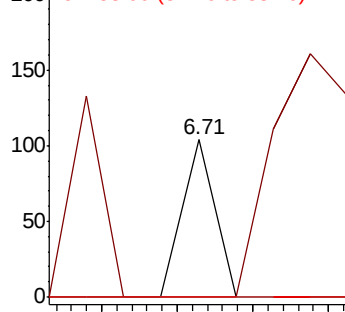
Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.5	83.3#
58	0.0	59.9	89.9#



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: 34.325 ug/l

RT: 7.55 min Scan# 702

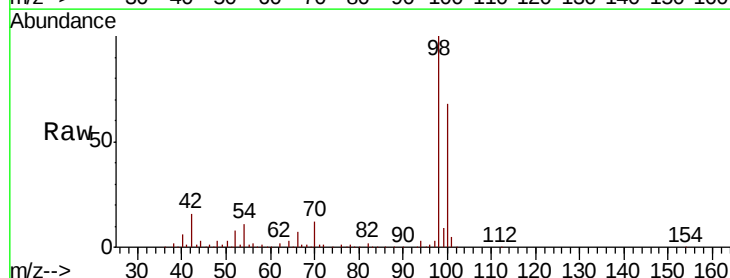
Delta R.T. 0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

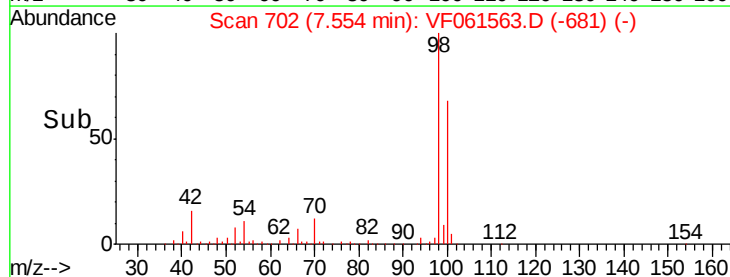
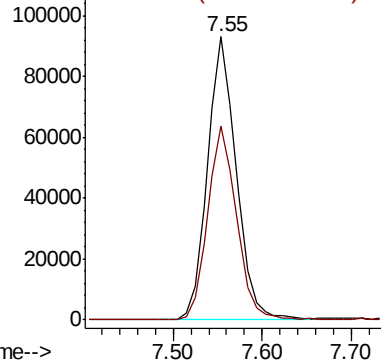
Tgt Ion: 98 Resp: 209893

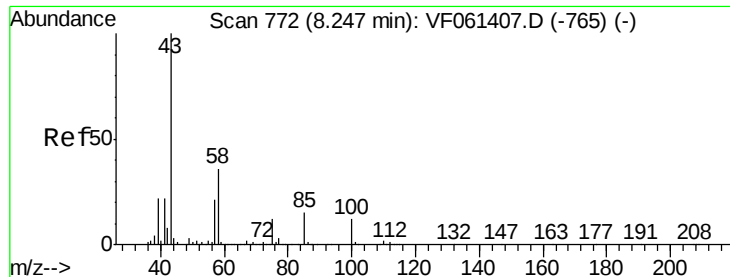
Ion	Ratio	Lower	Upper
98	100		
100	68.3	55.6	83.4



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: 1.733 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.03 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

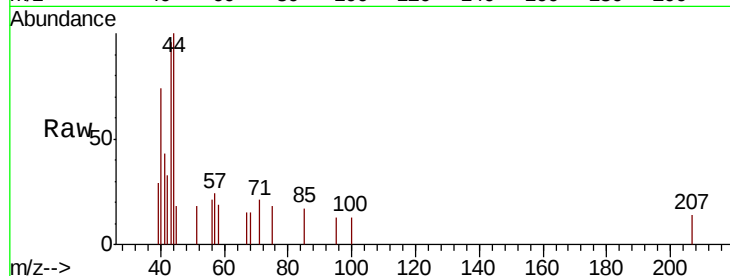
VOC-10

Tgt Ion: 43 Resp: 2096

Ion Ratio Lower Upper

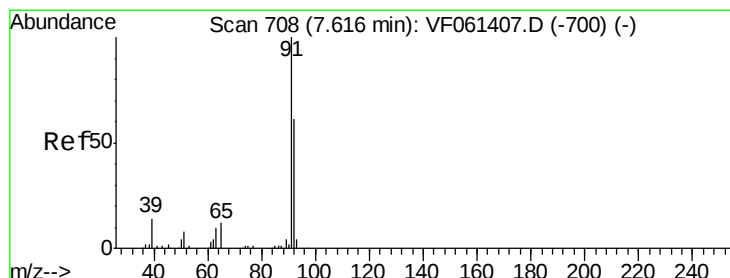
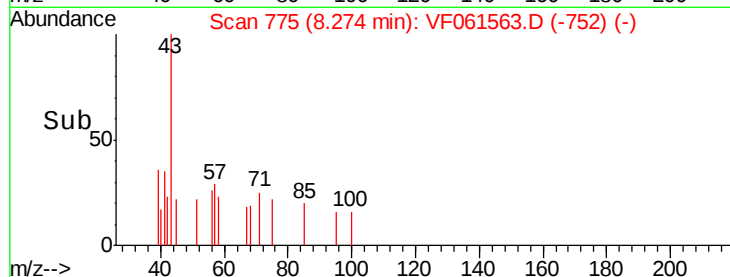
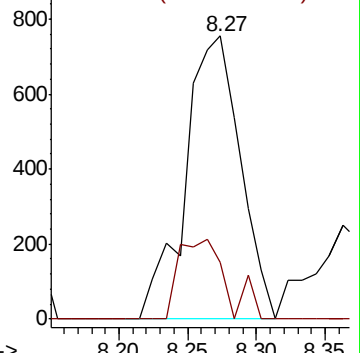
43 100

58 19.9 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.770 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061563.D

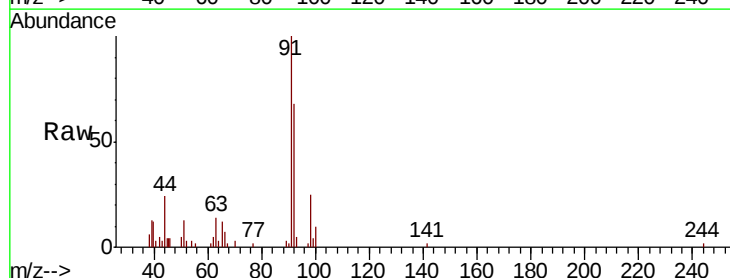
Acq: 8 Feb 2019 17:47

Tgt Ion: 92 Resp: 8505

Ion Ratio Lower Upper

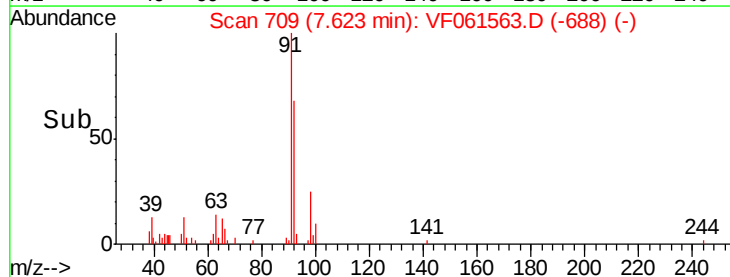
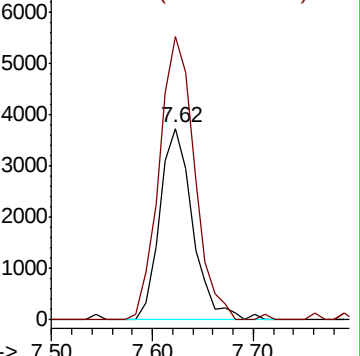
92 100

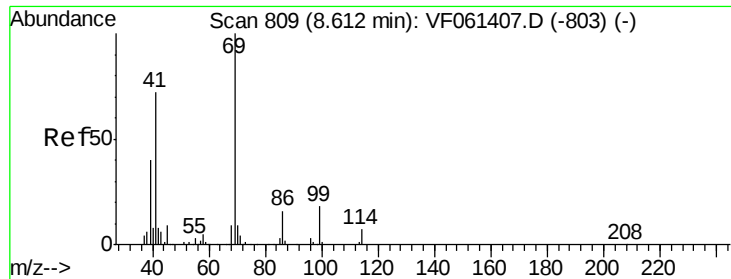
91 147.7 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#56

Ethyl methacrylate

Concen: 1.034 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.02 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

VOC-10

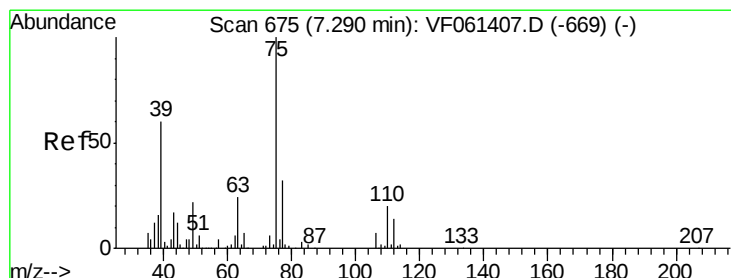
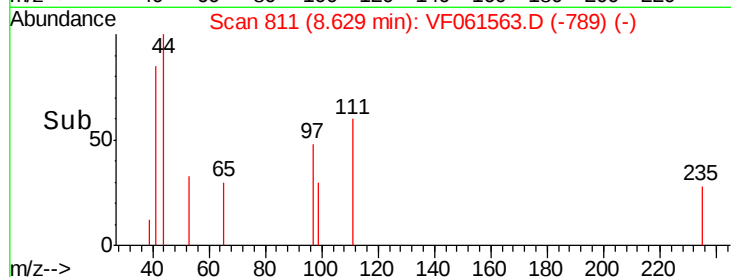
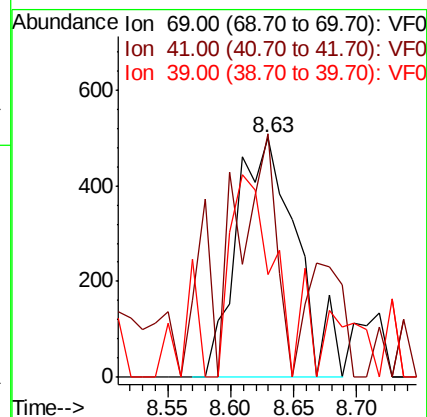
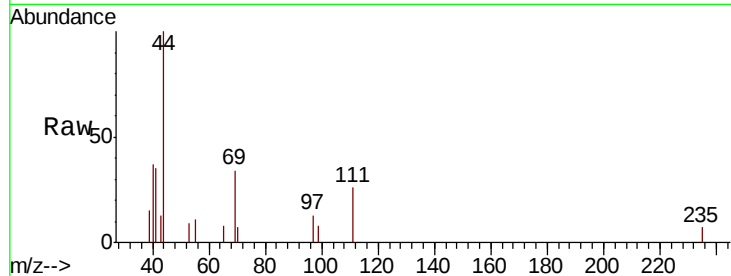
Tgt Ion: 69 Resp: 1641

Ion Ratio Lower Upper

69 100

41 101.8 57.5 86.3#

39 42.9 32.0 48.0



#58

2-Chloroethyl Vinyl ether

Concen: 28.223 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.02 min

Lab File: VF061563.D

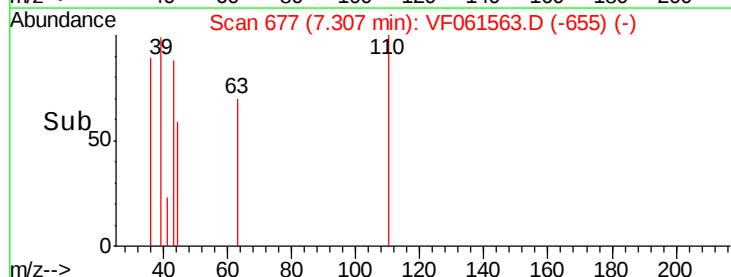
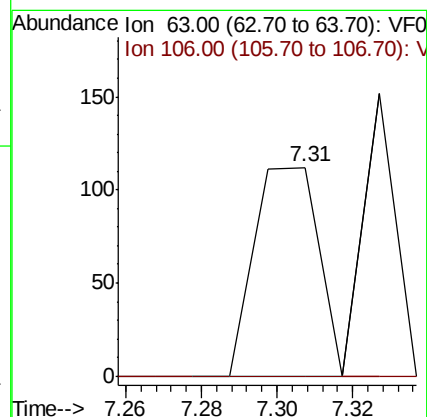
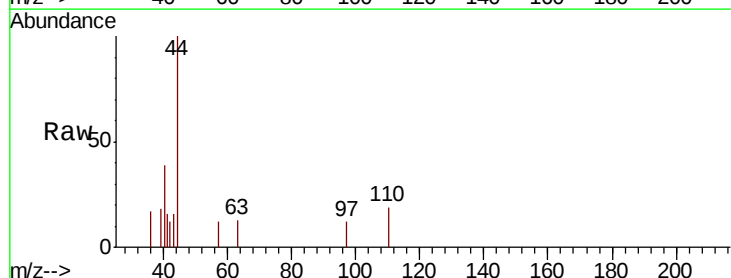
Acq: 8 Feb 2019 17:47

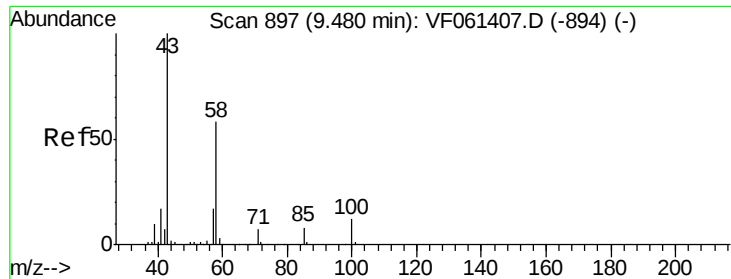
Tgt Ion: 63 Resp: 132

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#

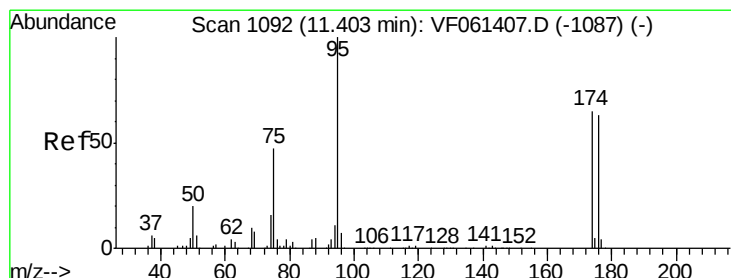
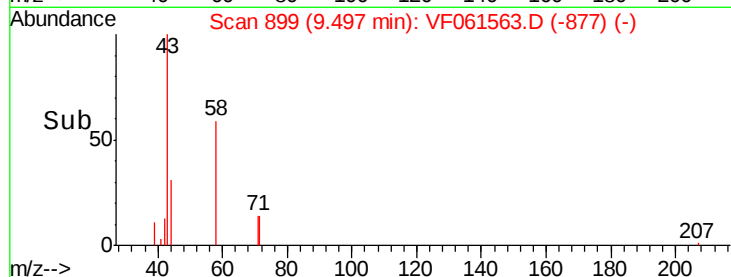
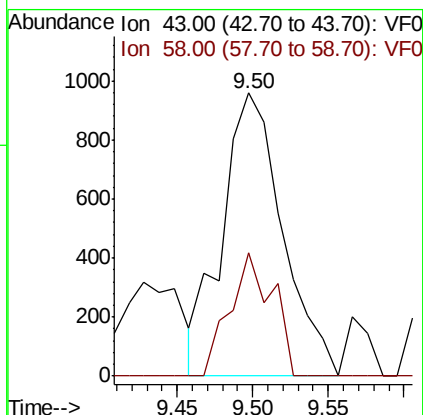
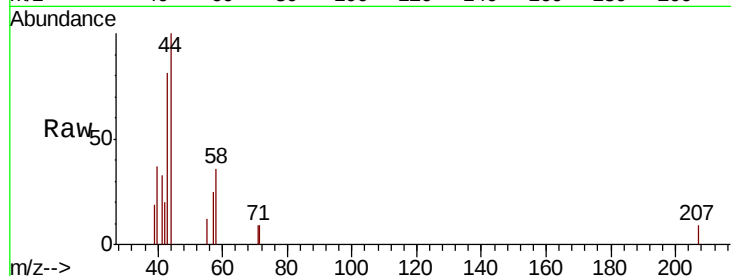




#59
2-Hexanone
Concen: 3.163 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.02 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

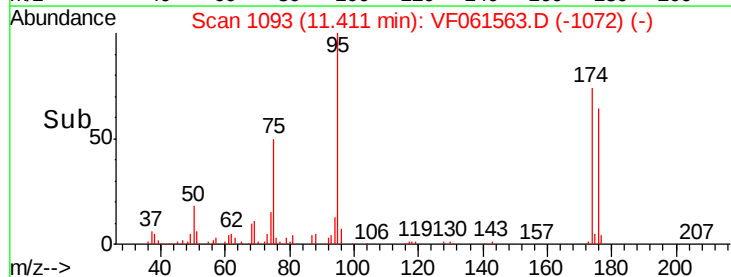
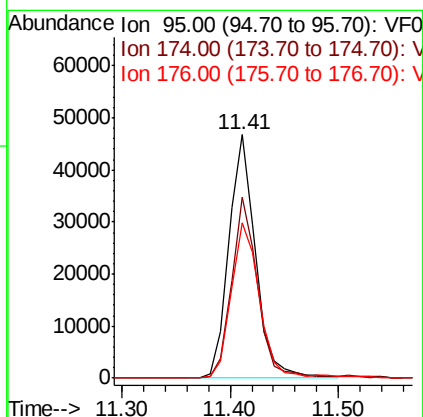
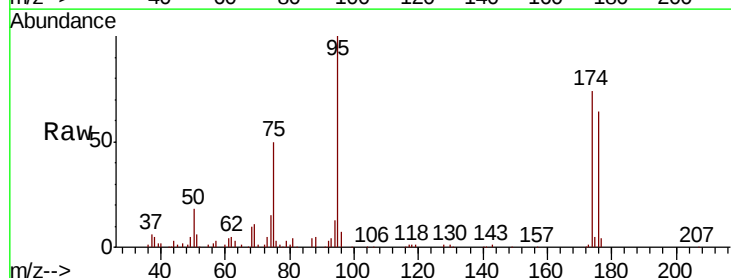
Instrument :
MSVOA_F
ClientSampleId :
VOC-10

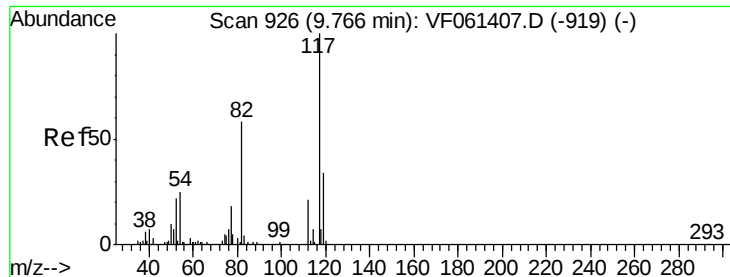
Tgt Ion: 43 Resp: 2668
Ion Ratio Lower Upper
43 100
58 43.8 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 28.165 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

Tgt Ion: 95 Resp: 80469
Ion Ratio Lower Upper
95 100
174 74.3 0.0 130.4
176 63.7 0.0 126.2

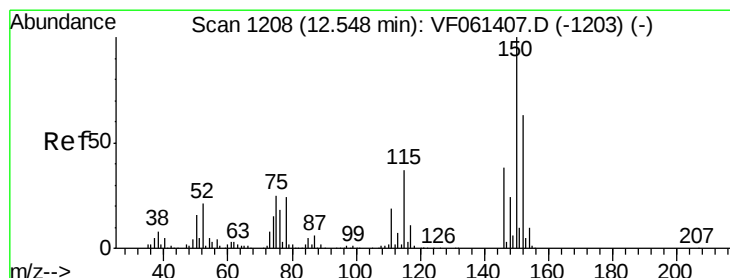
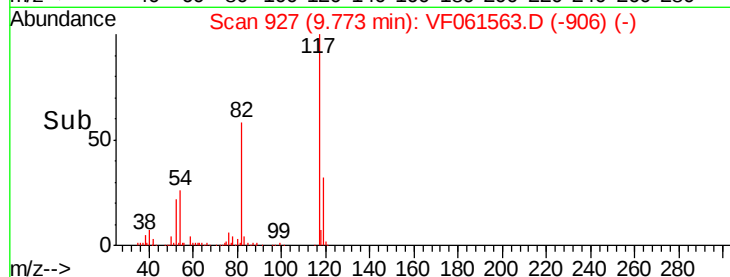
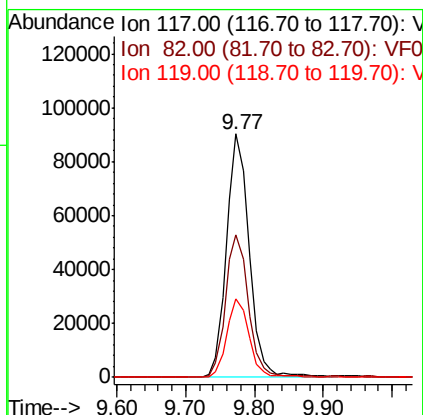
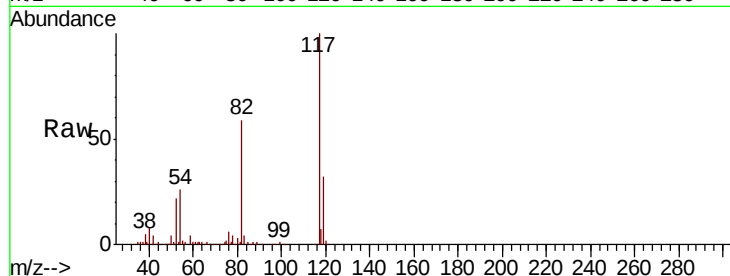




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

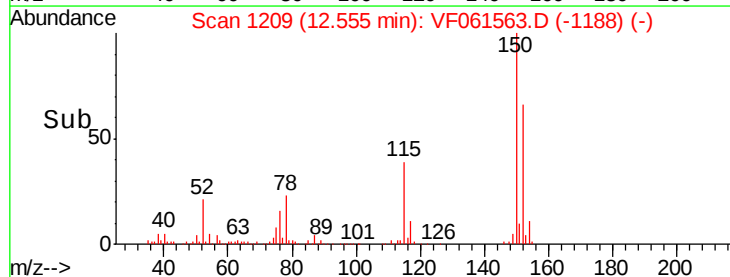
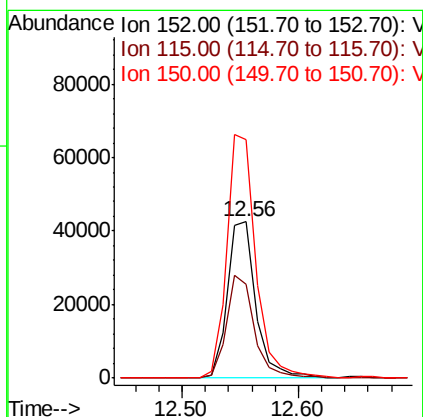
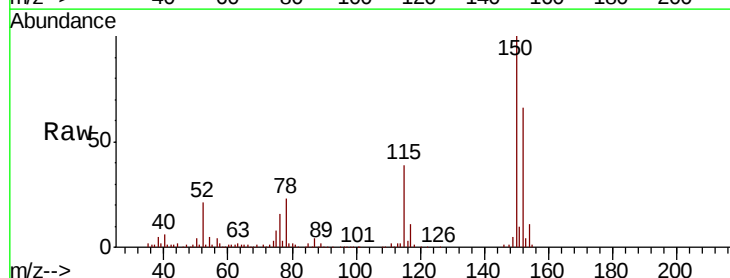
Instrument :
MSVOA_F
ClientSampleId :
VOC-10

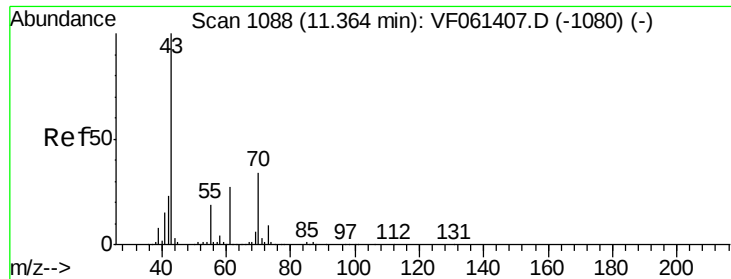
Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.4	69.6
119	32.4	27.2	40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061563.D
Acq: 8 Feb 2019 17:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.0	90.0
150	152.5	0.0	321.4





#74

N-ethyl acetate

Concen: 1.283 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

VOC-10

Tgt Ion: 43 Resp: 1795

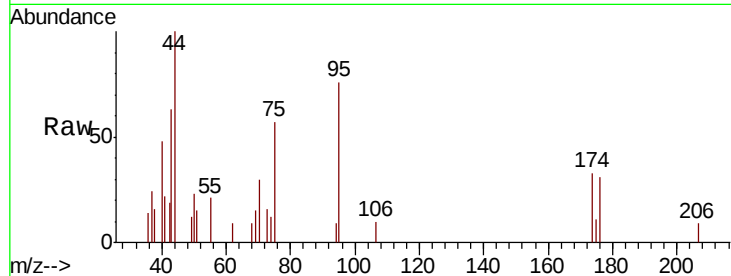
Ion Ratio Lower Upper

43 100

70 47.2 27.6 41.4#

55 33.3 15.4 23.2#

61 0.0 21.8 32.6#



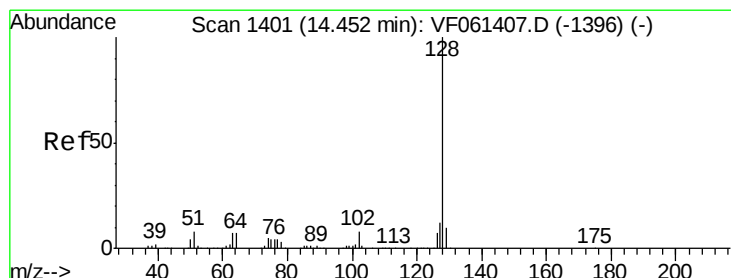
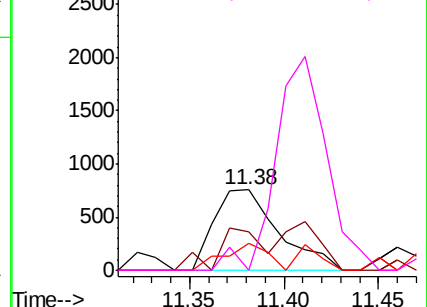
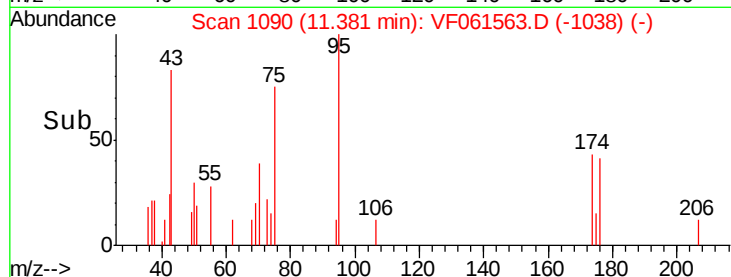
Abundance

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



#95

Naphthalene

Concen: 2.019 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061563.D

Acq: 8 Feb 2019 17:47

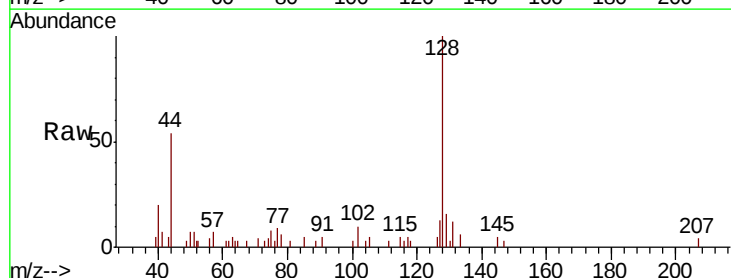
Tgt Ion: 128 Resp: 6282

Ion Ratio Lower Upper

128 100

127 13.2 9.5 14.3

129 16.2 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

