

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF110918\
 Data File : VF060682.D
 Acq On : 9 Nov 2018 20:04
 Operator : VA/AP
 Sample : J5876-01
 Misc : 5.12g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 48382-47191-47202

Quant Time: Nov 12 04:14:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	202705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	347363	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	284769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	117048	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	148410	72.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	144.92%	
35) Dibromofluoromethane	4.12	113	173973	64.83	ug/l	0.02
Spiked Amount	50.000		Recovery	=	129.66%	
50) Toluene-d8	7.56	98	382267	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
62) 4-Bromofluorobenzene	11.41	95	180402	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	

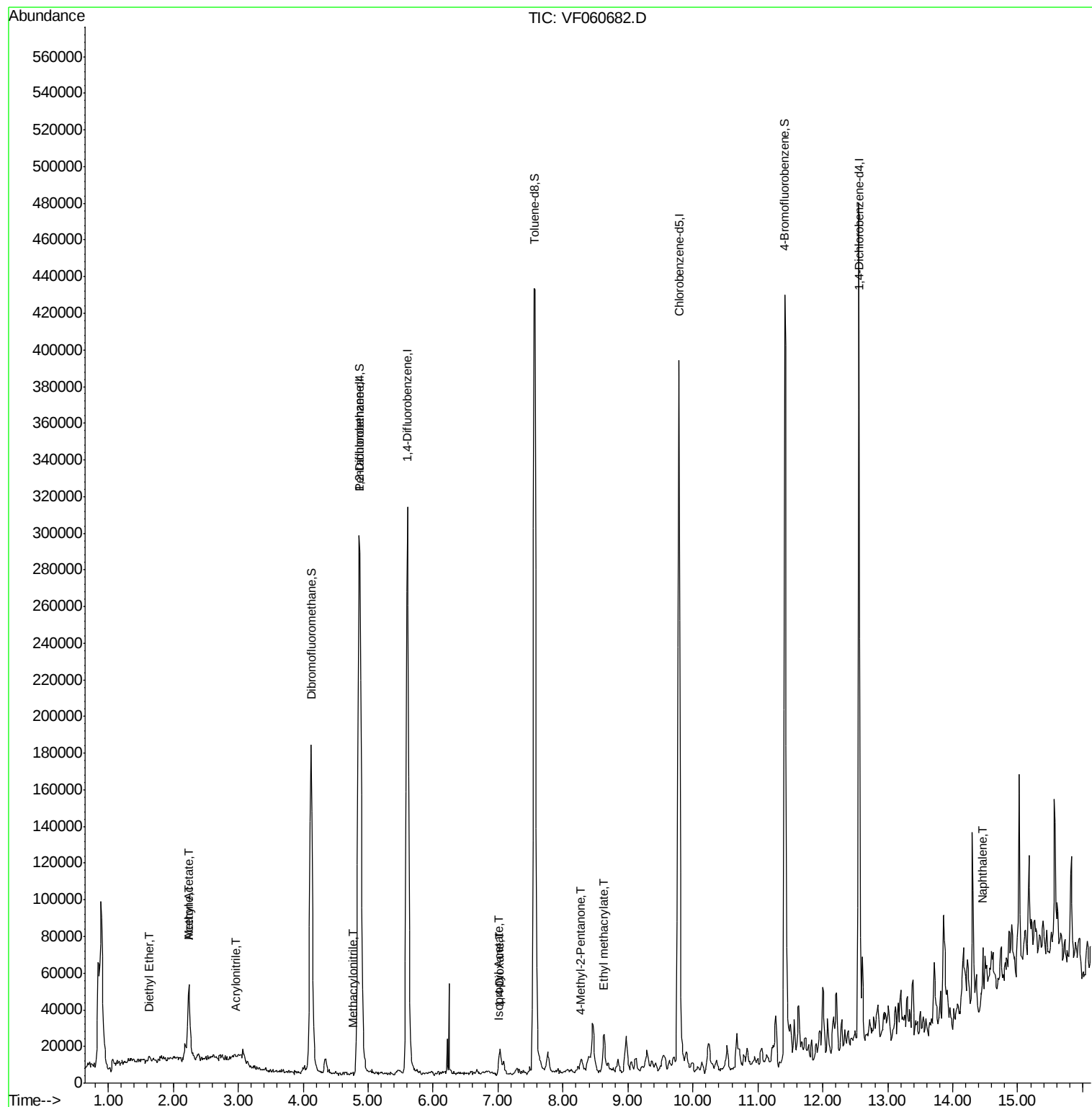
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	408	Below Cal	#	41
6) Chloroethane	1.46	64	66	Below Cal	#	1
8) Diethyl Ether	1.64	74	877	1.547	ug/l	66
11) Tert butyl alcohol	2.59	59	680	Below Cal	#	1
13) Acrolein	2.01	56	577	Below Cal		88
15) Acrylonitrile	2.97	53	658	2.696	ug/l #	26
16) Acetone	2.24	43	60889	126.167	ug/l	96
18) Methyl Acetate	2.24	43	60889	80.925	ug/l #	64
20) Methylene Chloride	2.23	84	3352	Below Cal	#	80
25) 2-Butanone	4.34	43	15588	Below Cal	#	91
29) Tetrahydrofuran	4.08	42	267	Below Cal	#	15
41) Methacrylonitrile	4.77	41	1079	1.038	ug/l #	42
43) Isopropyl Acetate	6.99	43	2428	1.045	ug/l #	45
49) 1,4-Dioxane	7.01	88	66	4.323	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	6695	4.287	ug/l #	52
56) Ethyl methacrylate	8.63	69	9872	4.360	ug/l	86
58) 2-Chloroethyl Vinyl ether	7.56	63	602	Below Cal		100
59) 2-Hexanone	9.50	43	4774	Below Cal		71
74) N-amyl acetate	11.36	43	636	Below Cal	#	37
89) n-Butylbenzene	12.84	91	2728	Below Cal	#	67
95) Naphthalene	14.46	128	7108	1.425	ug/l #	90

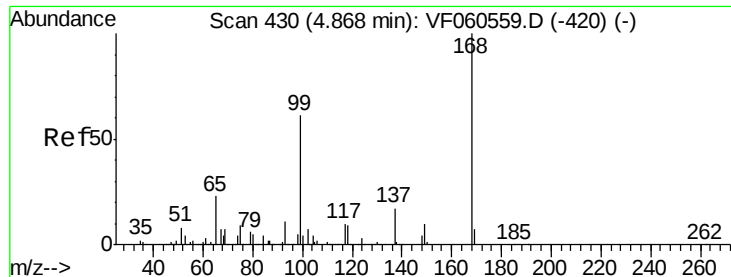
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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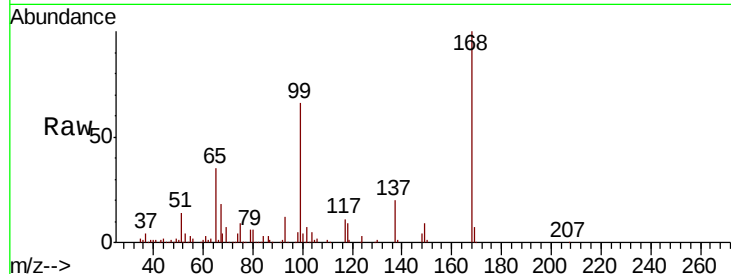


#1

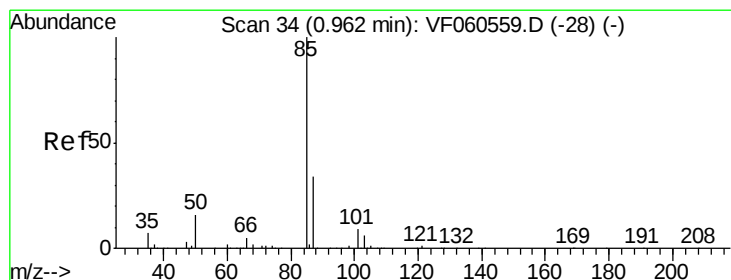
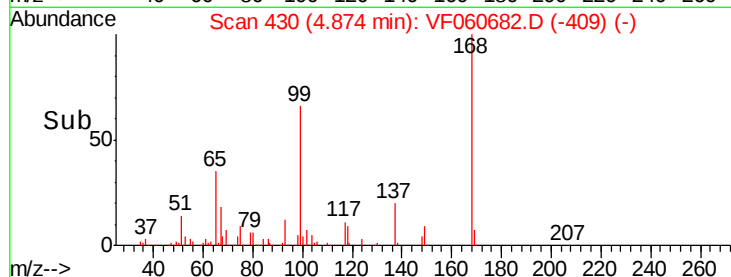
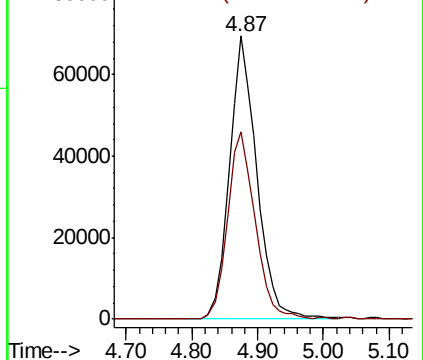
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

Instrument :
 MSVOA_F
 ClientSampleId :
 48382-47191-47202

Tgt Ion: 168 Resp: 202705
 Ion Ratio Lower Upper
 168 100
 99 66.2 48.6 72.8



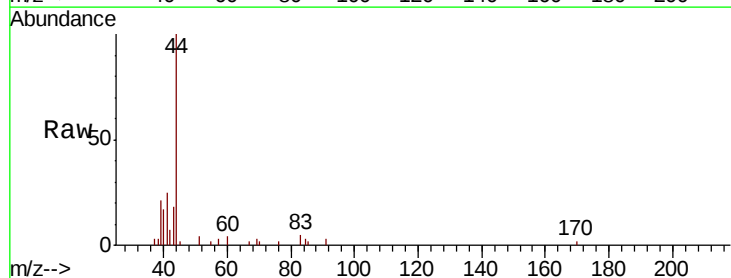
Abundance Ion 168.00 (167.70 to 168.70): VF0
 Ion 99.00 (98.70 to 99.70): VF0



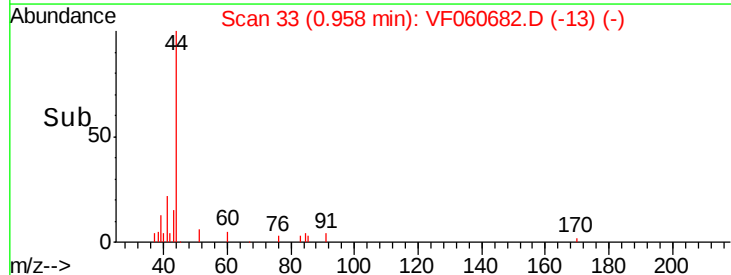
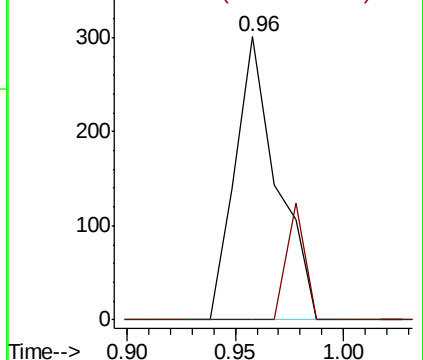
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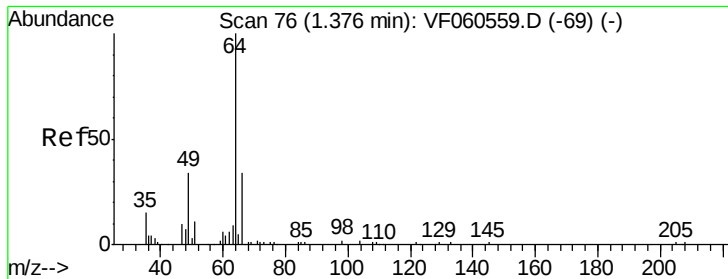
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 0.96 min Scan# 33
 Delta R.T. -0.00 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

Tgt Ion: 85 Resp: 408
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.46 min Scan# 84

Delta R.T. 0.09 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

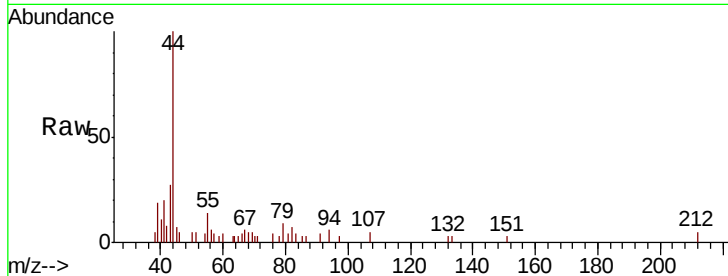
48382-47191-47202

Tgt Ion: 64 Resp: 66

Ion Ratio Lower Upper

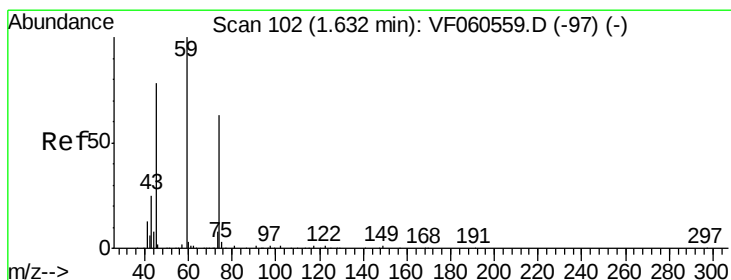
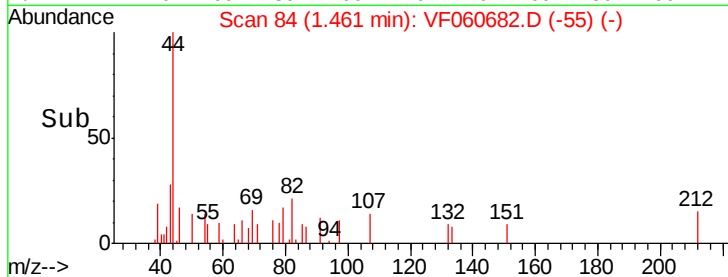
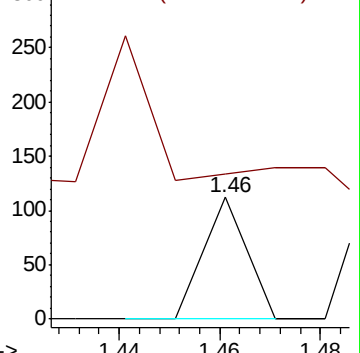
64 100

66 119.6 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 1.547 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF060682.D

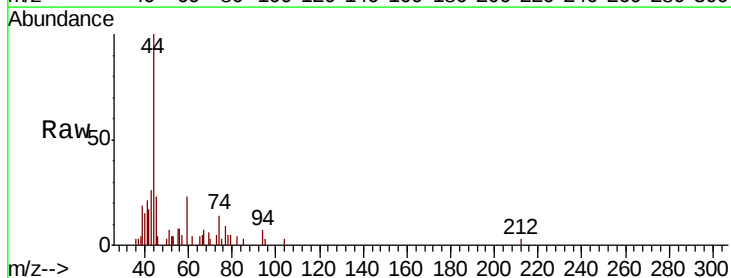
Acq: 9 Nov 2018 20:04

Tgt Ion: 74 Resp: 877

Ion Ratio Lower Upper

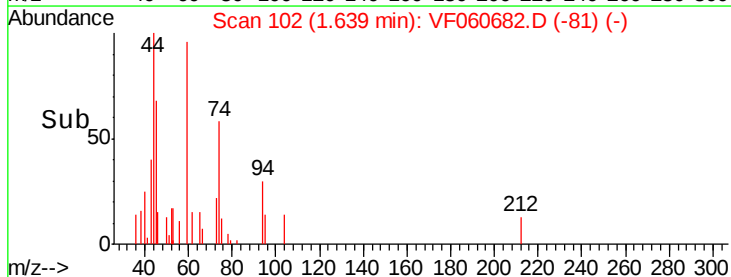
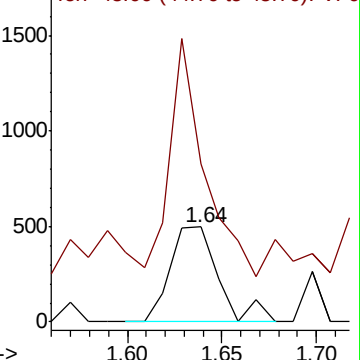
74 100

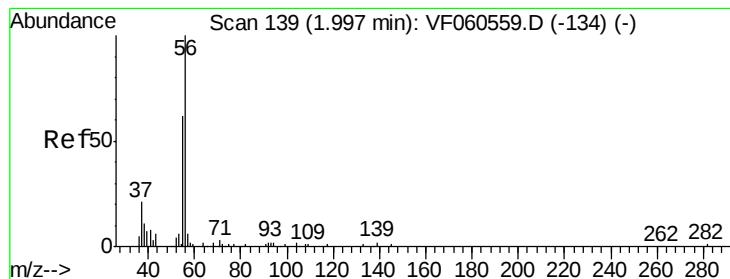
45 166.7 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.02 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

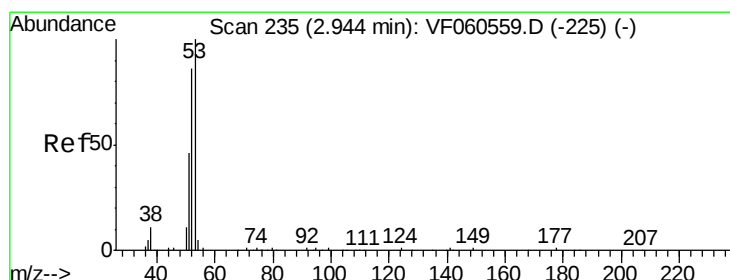
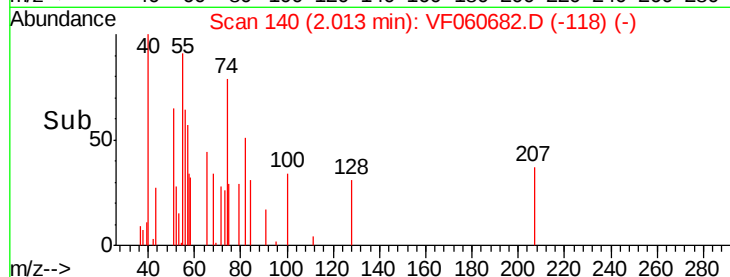
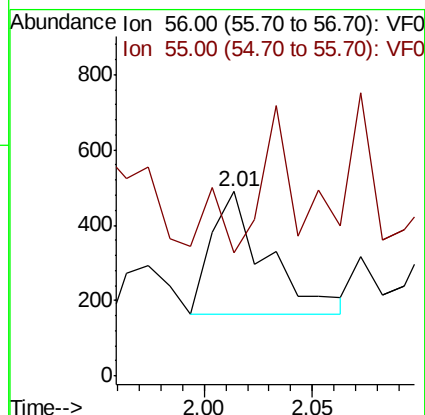
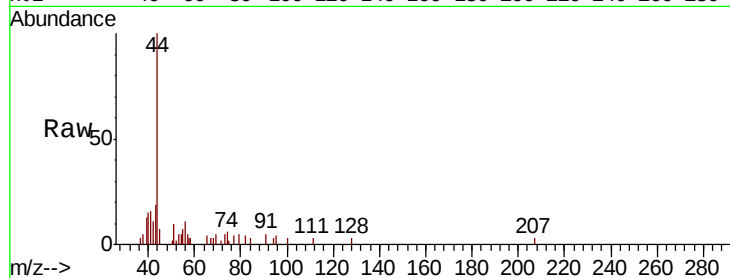
Instrument :
MSVOA_F
ClientSampleId :
48382-47191-47202

Tgt Ion: 56 Resp: 577

Ion Ratio Lower Upper

56 100

55 66.9 61.8 92.6



#15

Acrylonitrile

Concen: 2.696 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

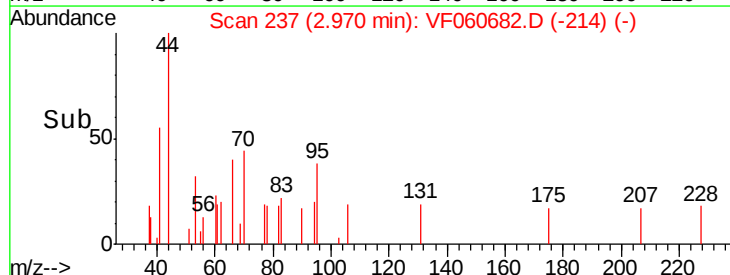
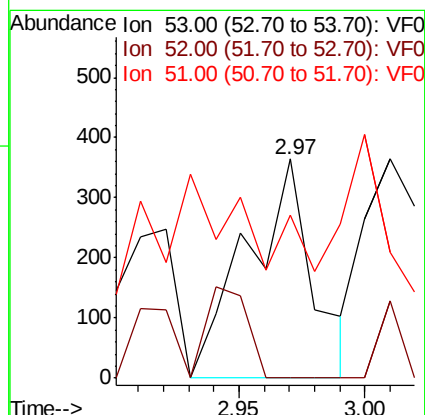
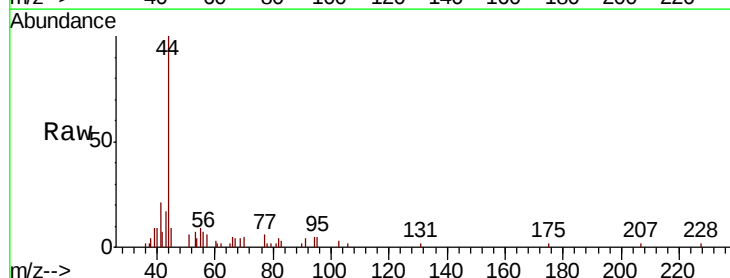
Tgt Ion: 53 Resp: 658

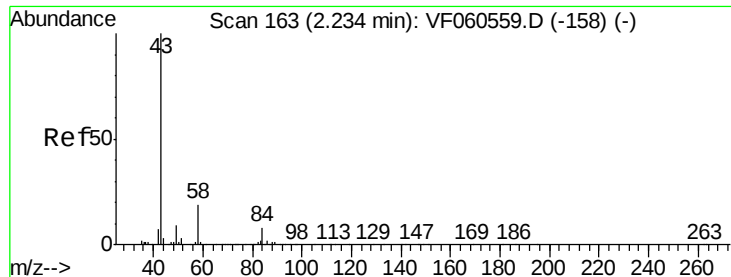
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 74.5 38.2 57.2#

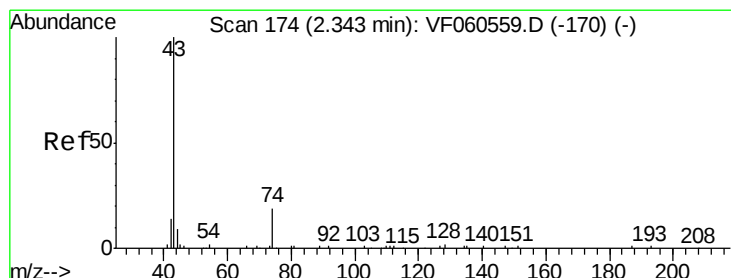
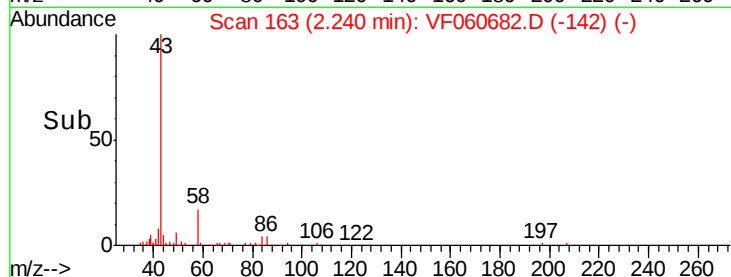
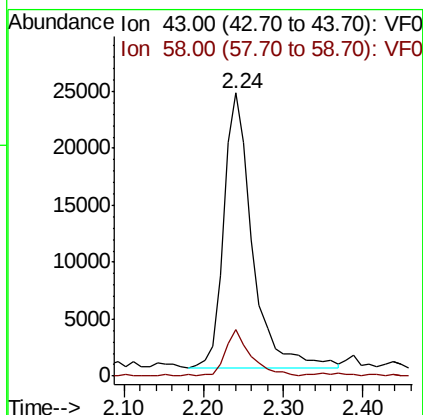
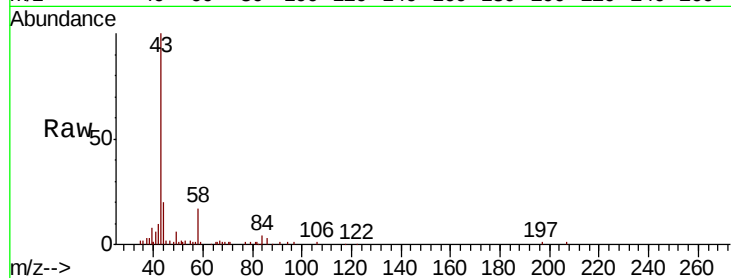




#16
Acetone
Concen: 126.167 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.01 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

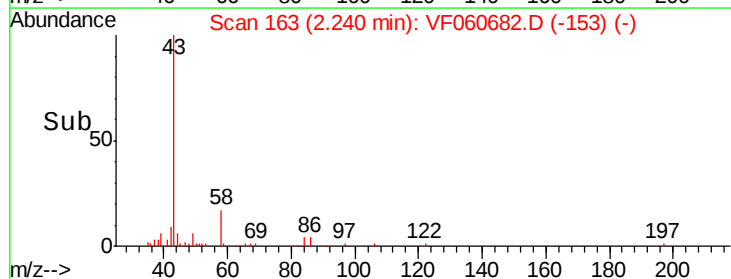
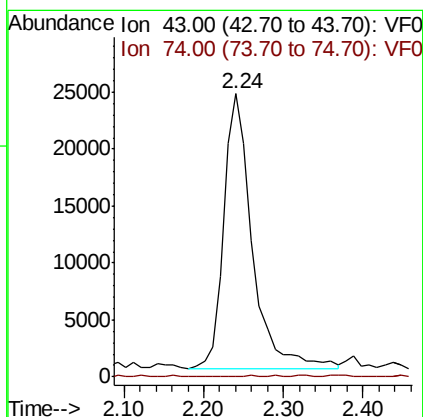
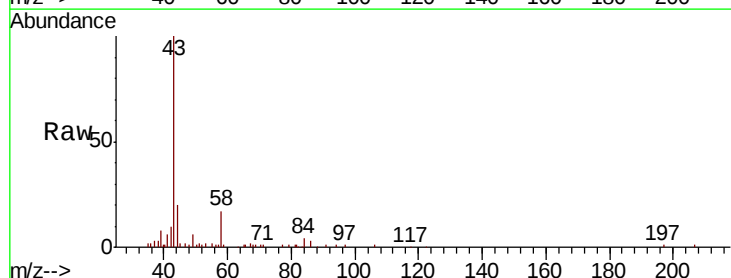
Instrument :
MSVOA_F
ClientSampleId :
48382-47191-47202

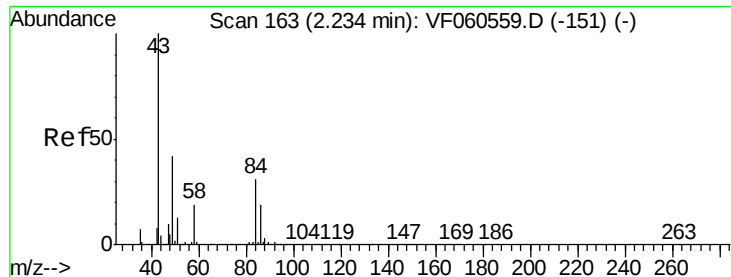
Tgt Ion: 43 Resp: 60889
Ion Ratio Lower Upper
43 100
58 16.6 14.6 22.0



#18
Methyl Acetate
Concen: 80.925 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.10 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

Tgt Ion: 43 Resp: 60889
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#

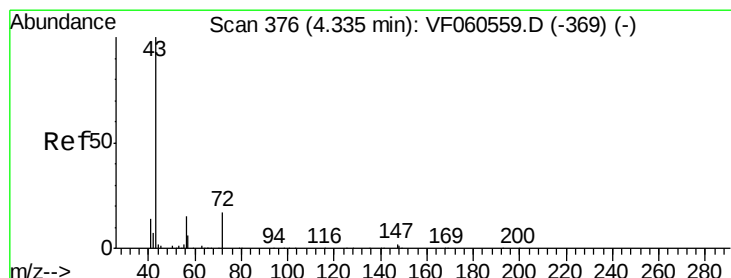
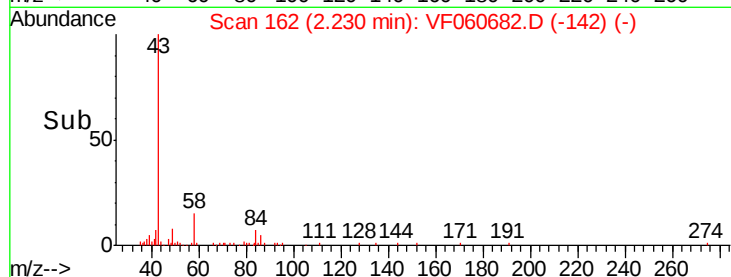
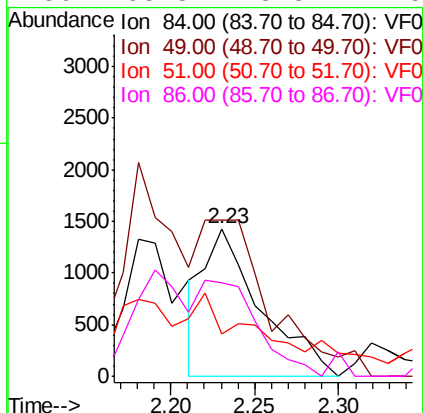
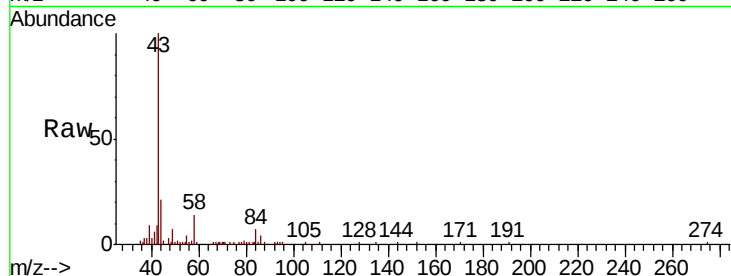




#20
Methylene Chloride
Concen: Below Cal
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

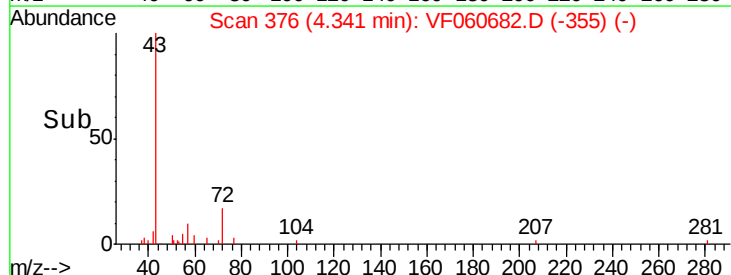
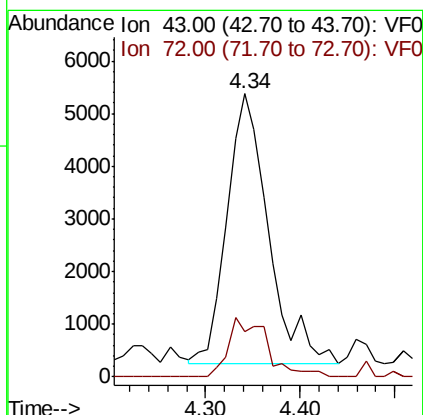
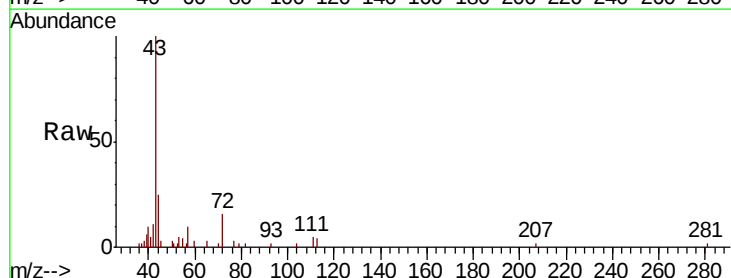
Instrument :
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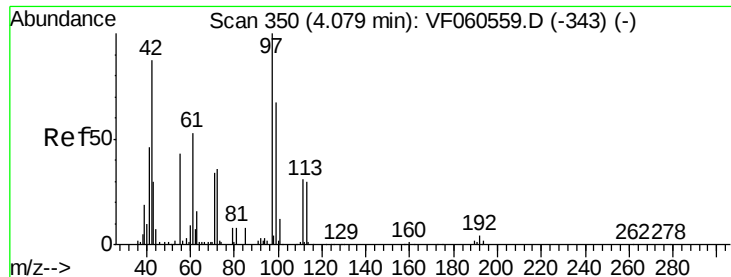
Tgt Ion: 84 Resp: 3352
Ion Ratio Lower Upper
84 100
49 106.3 109.9 164.9#
51 28.9 35.8 53.8#
86 63.8 48.3 72.5



#25
2-Butanone
Concen: Below Cal
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

Tgt Ion: 43 Resp: 15588
Ion Ratio Lower Upper
43 100
72 15.9 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

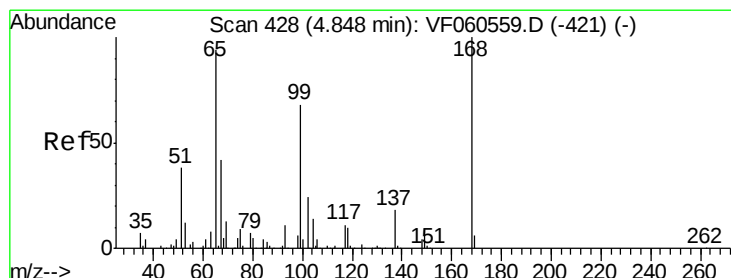
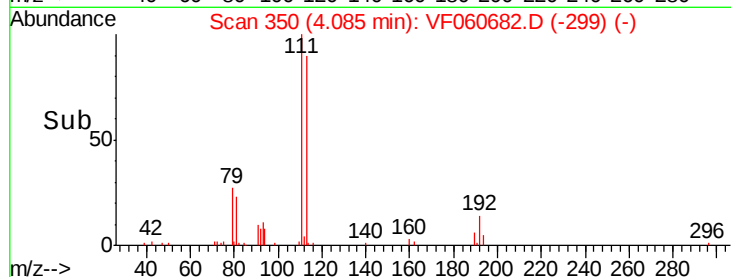
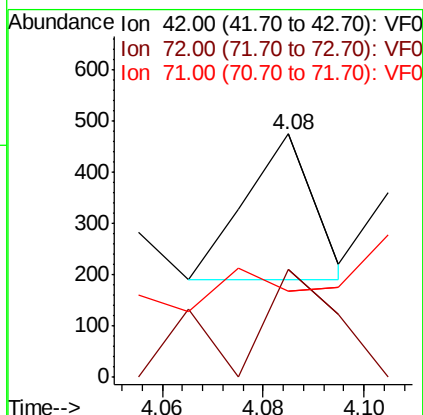
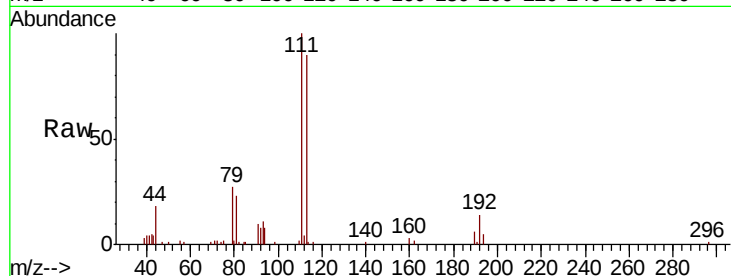
Delta R.T. 0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

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MSVOA_F
ClientSampleId :
48382-47191-47202

Tgt Ion: 42 Resp: 267
Ion Ratio Lower Upper
42 100
72 103.4 31.4 47.0#
71 0.0 31.8 47.6#



#33

1,2-Dichloroethane-d4

Concen: 72.463 ug/l

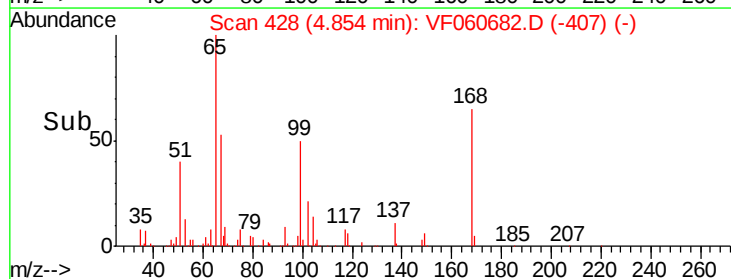
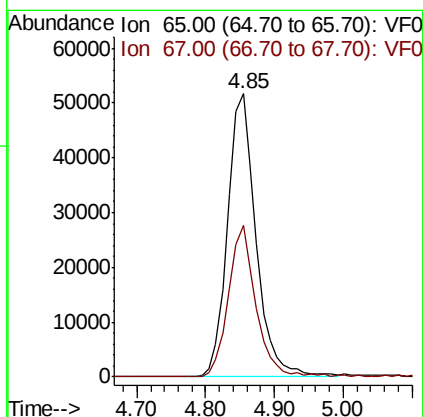
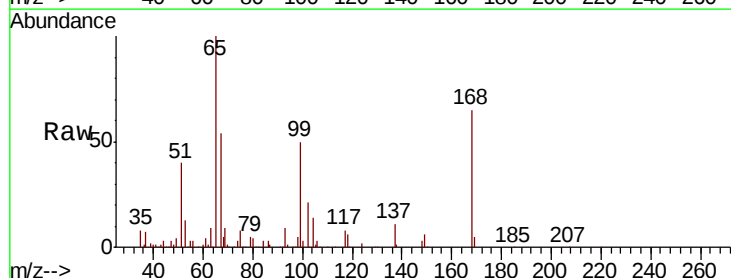
RT: 4.85 min Scan# 428

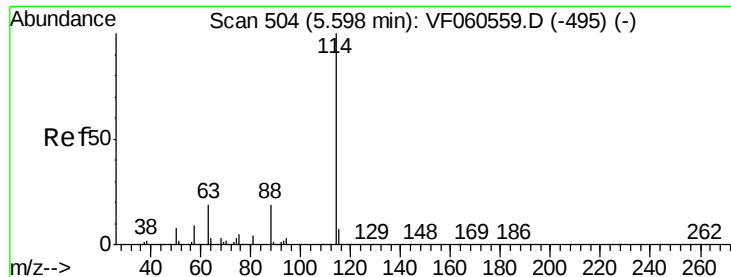
Delta R.T. 0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Tgt Ion: 65 Resp: 148410
Ion Ratio Lower Upper
65 100
67 53.5 0.0 101.8

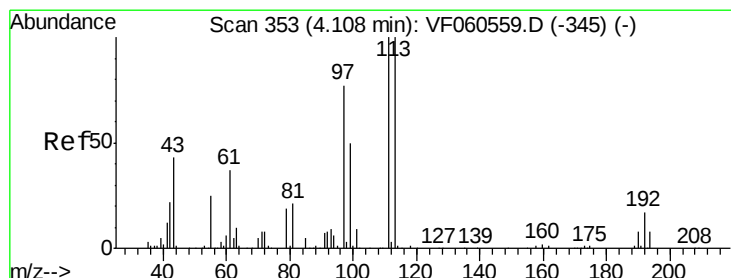
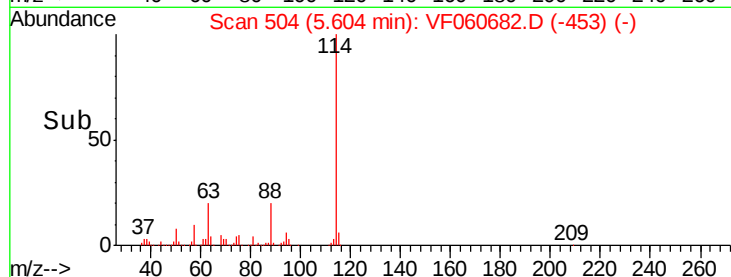
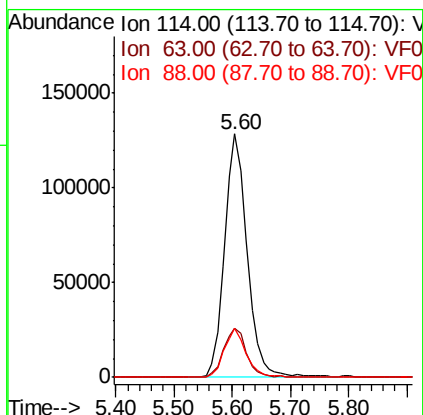
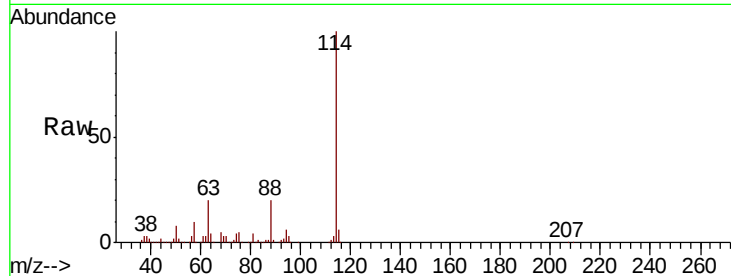




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

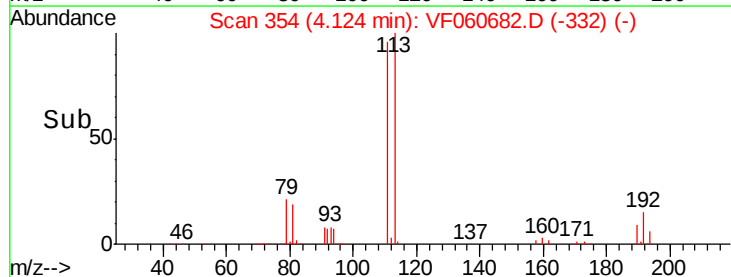
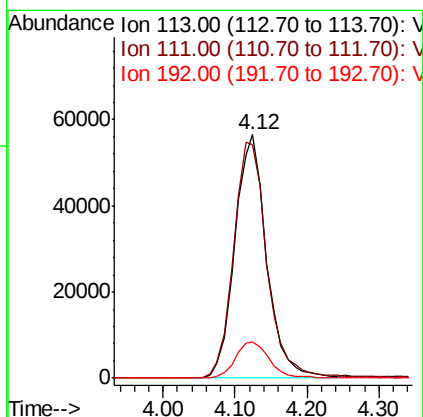
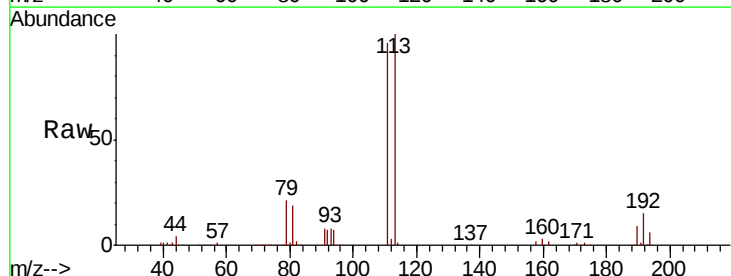
Instrument :
 MSVOA_F
 ClientSampleId :
 48382-47191-47202

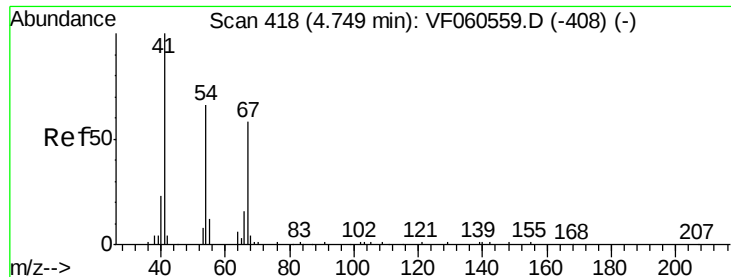
Tgt Ion:114 Resp: 347363
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 20.0 0.0 38.2



#35
 Dibromofluoromethane
 Concen: 64.825 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.02 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

Tgt Ion:113 Resp: 173973
 Ion Ratio Lower Upper
 113 100
 111 96.0 79.9 119.9
 192 15.1 13.3 19.9





#41

Methacrylonitrile

Concen: 1.038 ug/l

RT: 4.77 min Scan# 419

Delta R.T. 0.02 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

48382-47191-47202

Tgt Ion: 41 Resp: 1079

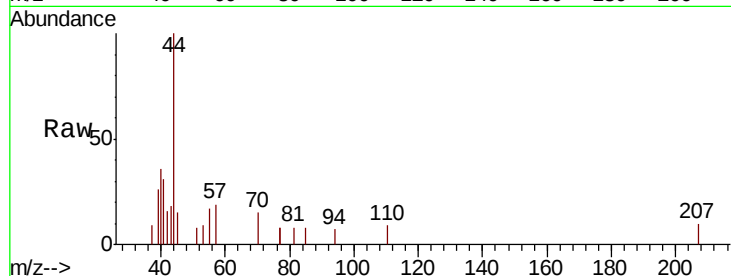
Ion Ratio Lower Upper

41 100

39 84.1 45.6 68.4#

67 0.0 45.3 67.9#

52 0.0 29.6 44.4#

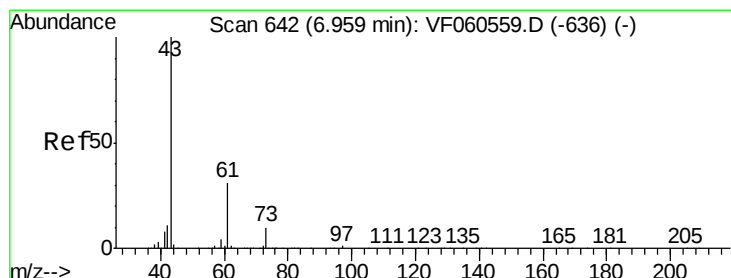
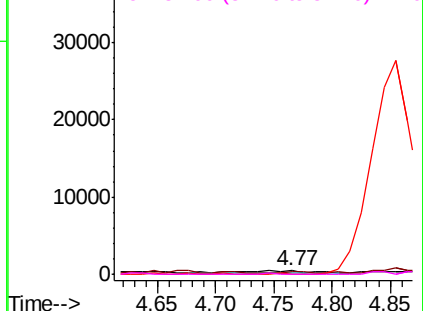
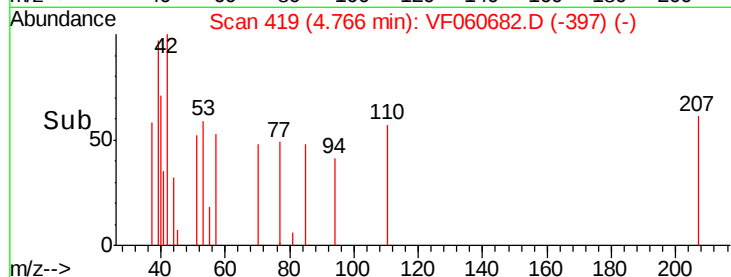


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 1.045 ug/l

RT: 6.99 min Scan# 645

Delta R.T. 0.04 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

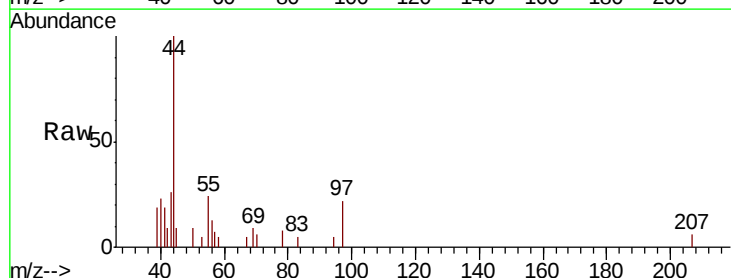
Tgt Ion: 43 Resp: 2428

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

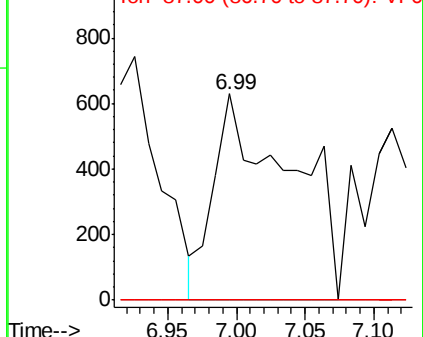
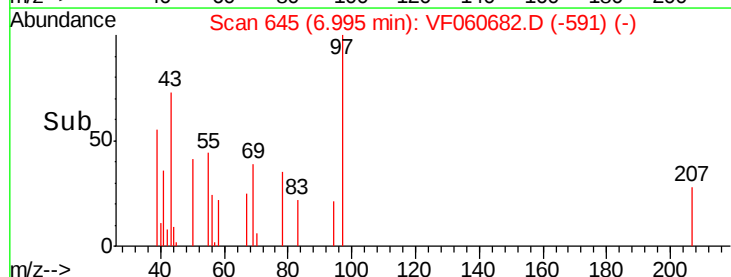
87 0.0 0.2 0.4#

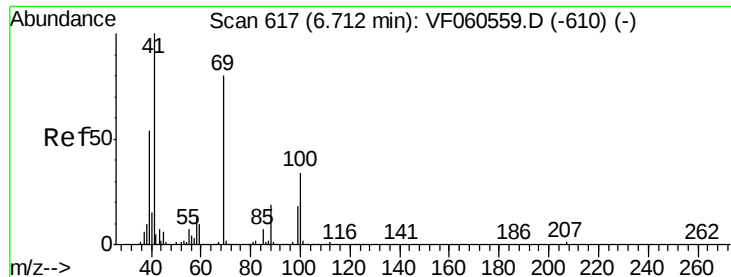


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

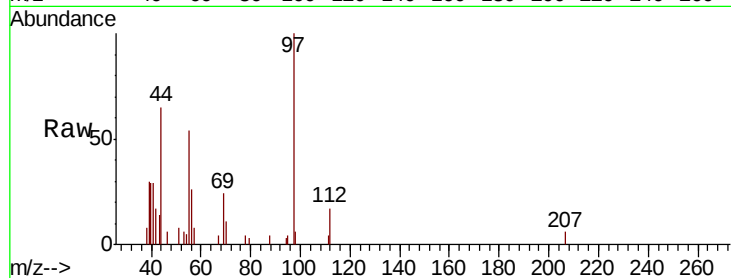




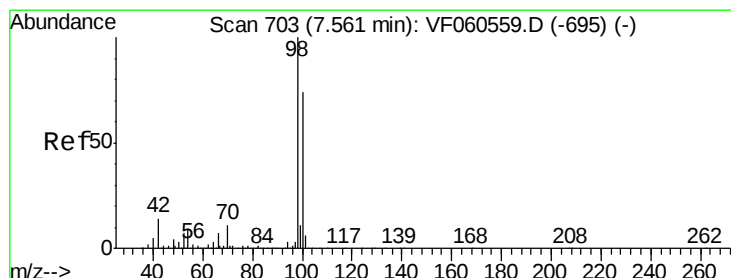
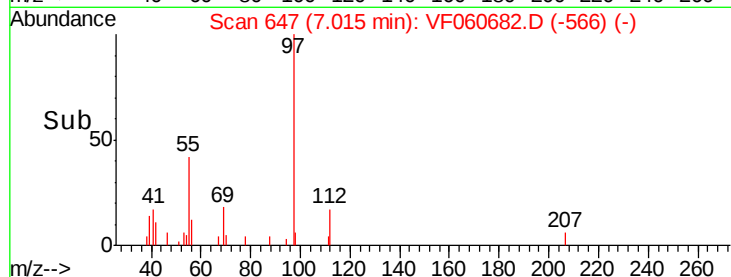
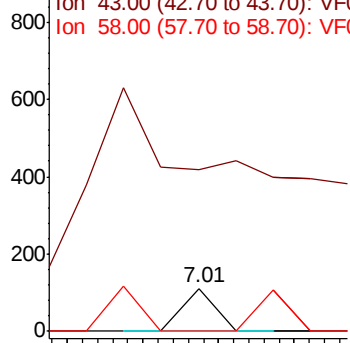
#49
1,4-Dioxane
Concen: 4.323 ug/l
RT: 7.01 min Scan# 647
Delta R.T. 0.30 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

Instrument :
MSVOA_F
ClientSampleId :
48382-47191-47202

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 375.7 61.2 91.8#
58 0.0 56.9 85.3#

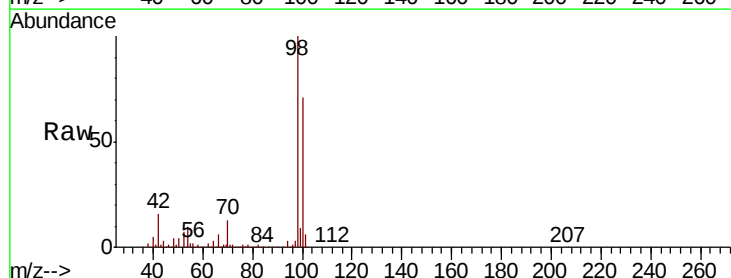


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

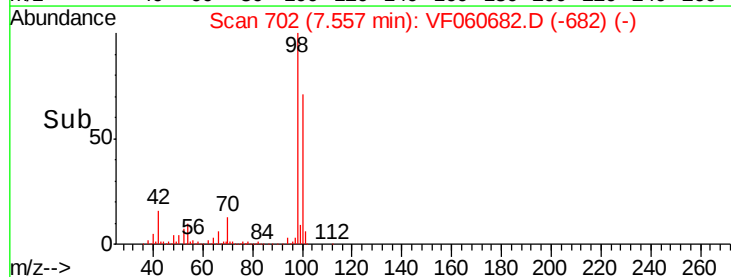
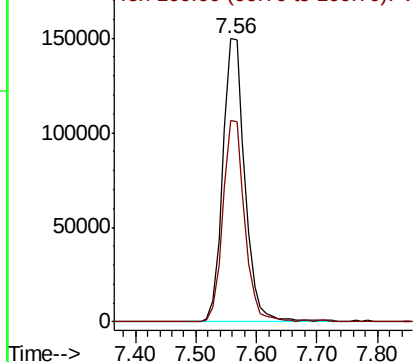


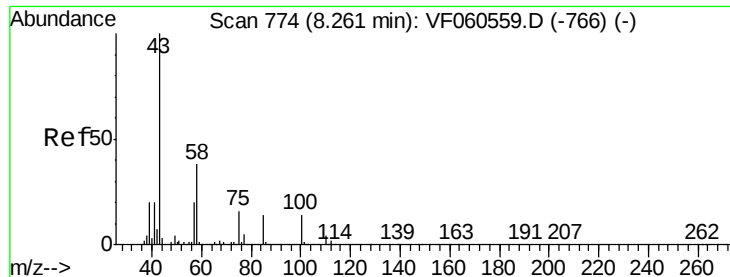
#50
Toluene-d8
Concen: 48.084 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF060682.D
Acq: 9 Nov 2018 20:04

Tgt Ion: 98 Resp: 382267
Ion Ratio Lower Upper
98 100
100 71.0 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 4.287 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

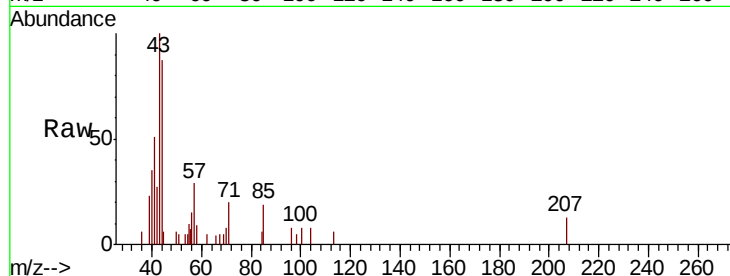
48382-47191-47202

Tgt Ion: 43 Resp: 6695

Ion Ratio Lower Upper

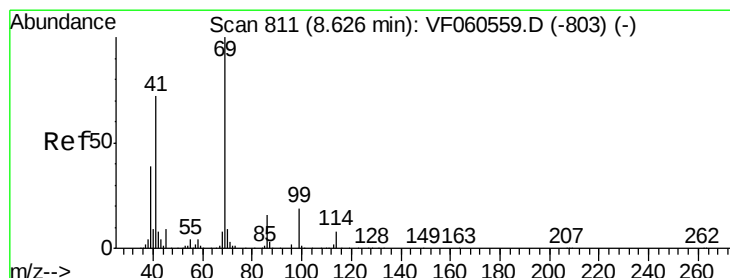
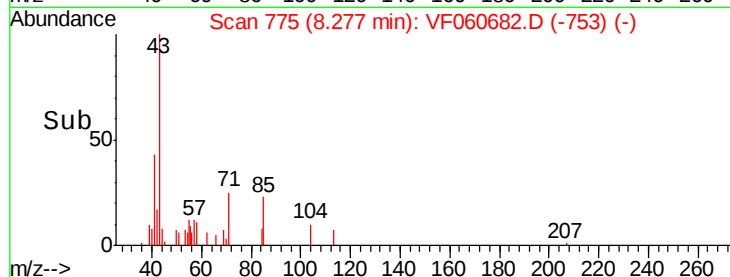
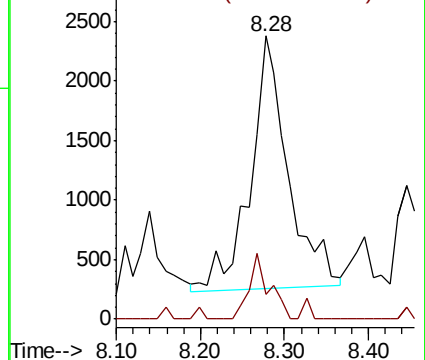
43 100

58 9.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 4.360 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

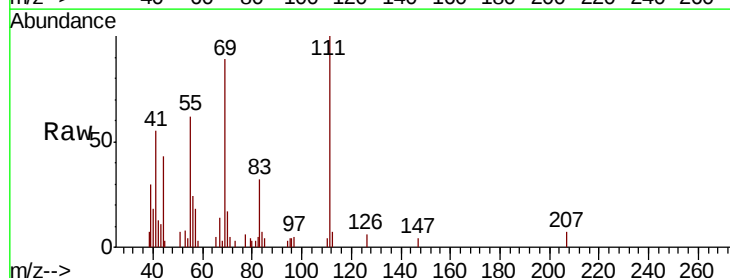
Tgt Ion: 69 Resp: 9872

Ion Ratio Lower Upper

69 100

41 61.2 59.2 88.8

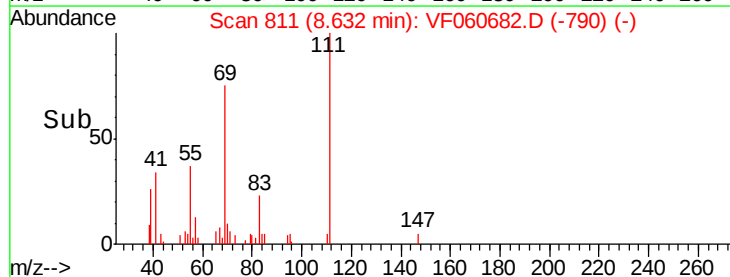
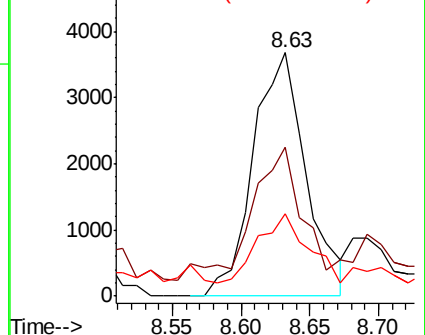
39 33.8 32.3 48.5

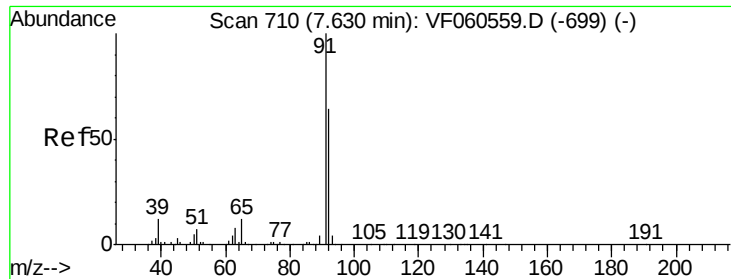


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

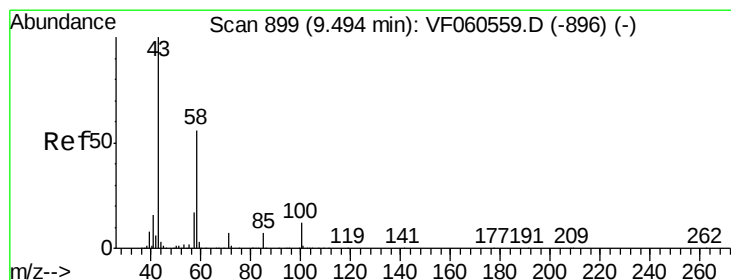
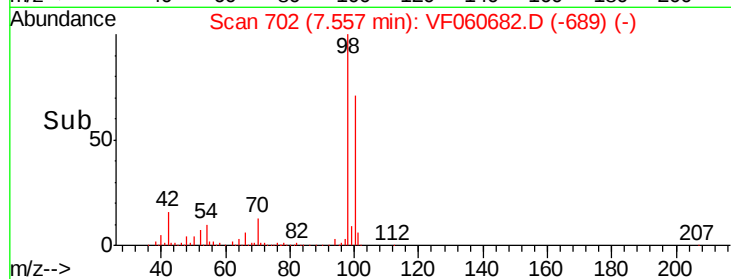
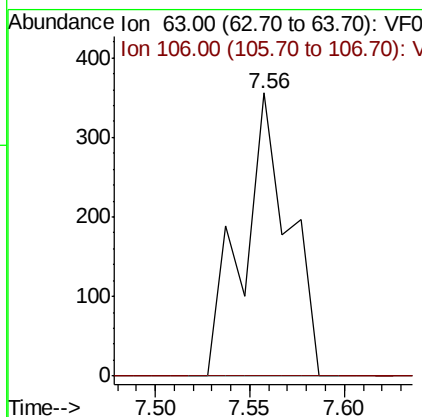
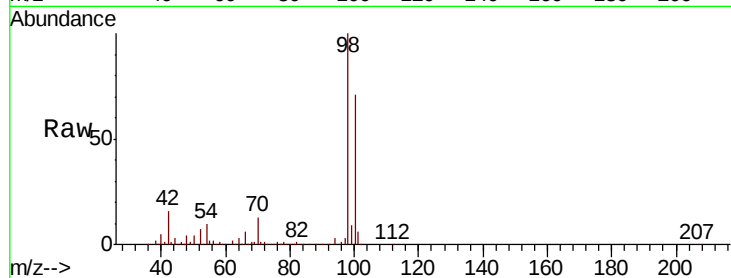




#58
 2-Chloroethyl Vinyl ether
 Concen: Below Cal
 RT: 7.56 min Scan# 702
 Delta R.T. -0.07 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

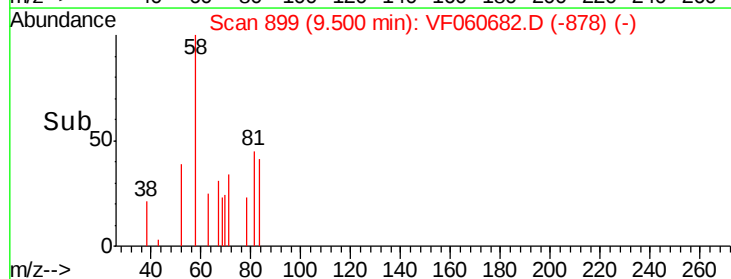
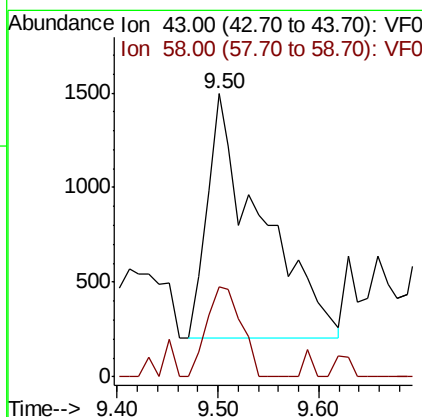
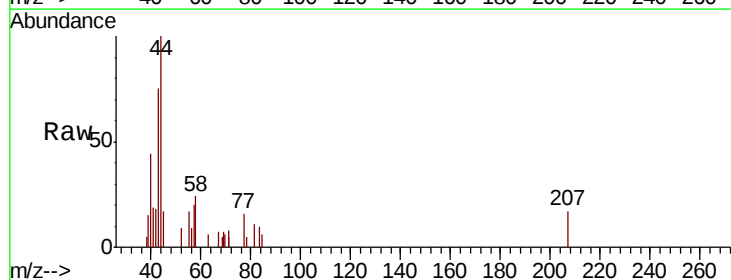
Instrument :
 MSVOA_F
 ClientSampleId :
 48382-47191-47202

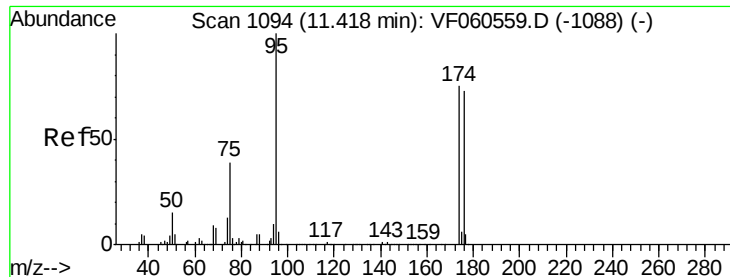
Tgt Ion: 63 Resp: 602
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.50 min Scan# 899
 Delta R.T. 0.01 min
 Lab File: VF060682.D
 Acq: 9 Nov 2018 20:04

Tgt Ion: 43 Resp: 4774
 Ion Ratio Lower Upper
 43 100
 58 32.0 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 51.878 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

48382-47191-47202

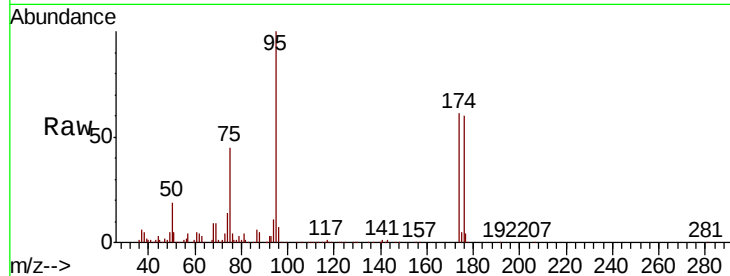
Tgt Ion: 95 Resp: 180402

Ion Ratio Lower Upper

95 100

174 60.6 0.0 149.0

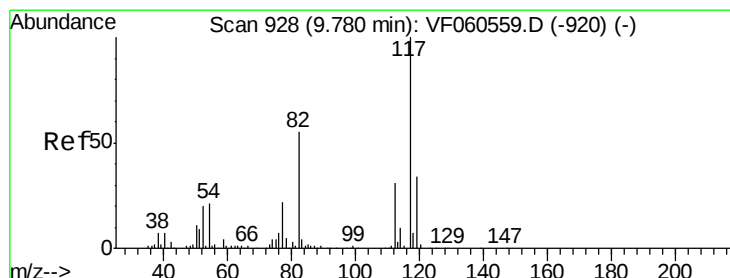
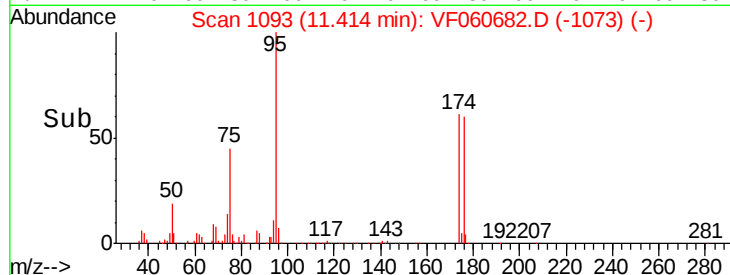
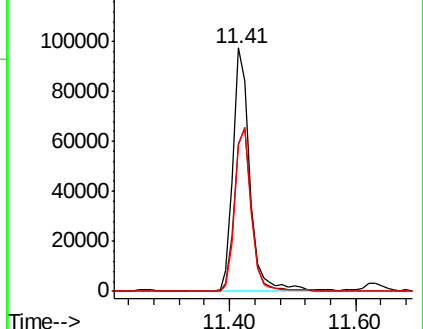
176 60.1 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

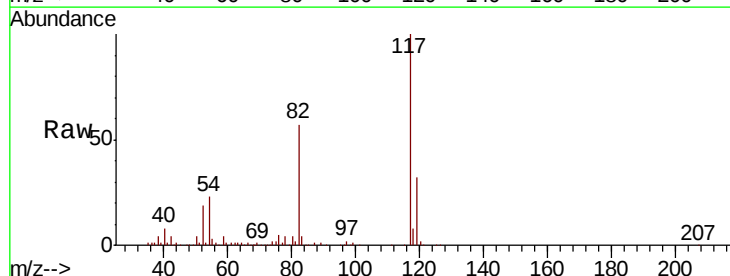
Tgt Ion: 117 Resp: 284769

Ion Ratio Lower Upper

117 100

82 56.8 43.9 65.9

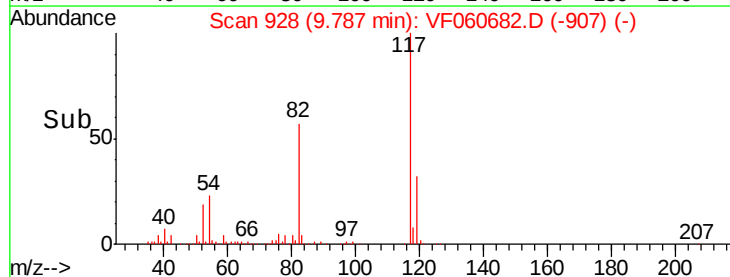
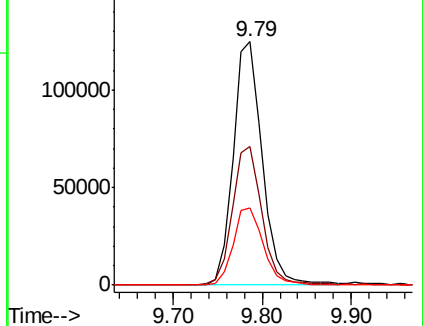
119 31.9 27.4 41.0

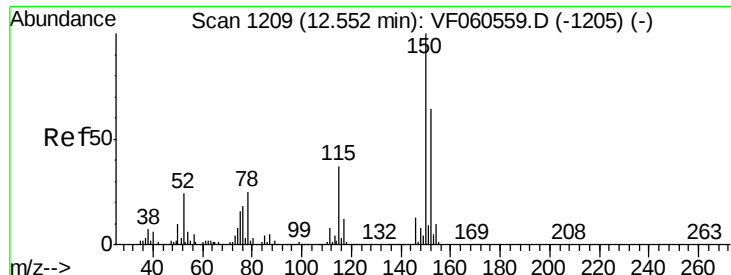


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

48382-47191-47202

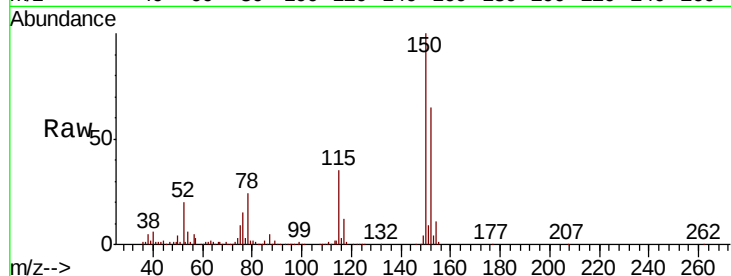
Tgt Ion:152 Resp: 117048

Ion Ratio Lower Upper

152 100

115 53.7 29.6 88.8

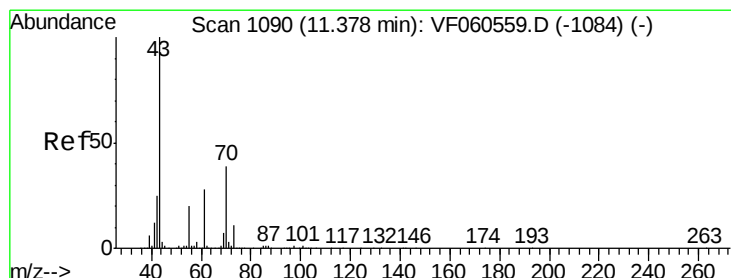
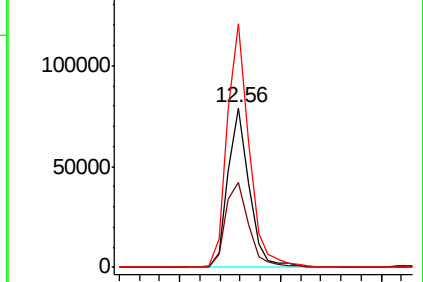
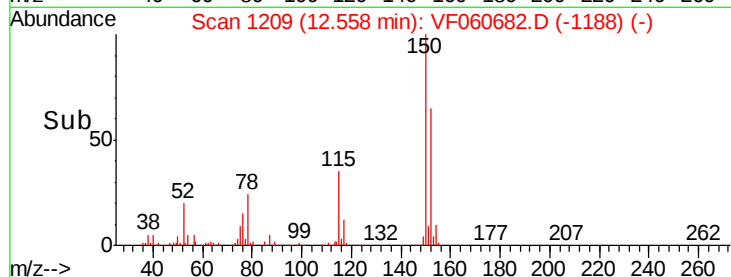
150 153.0 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-amil acetate

Concen: Below Cal

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Tgt Ion: 43 Resp: 636

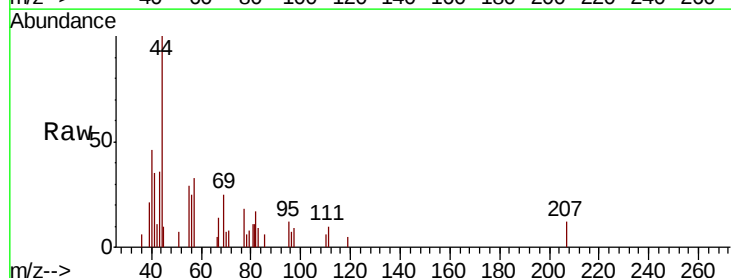
Ion Ratio Lower Upper

43 100

70 18.6 30.9 46.3#

55 81.8 16.6 24.8#

61 0.0 22.0 33.0#

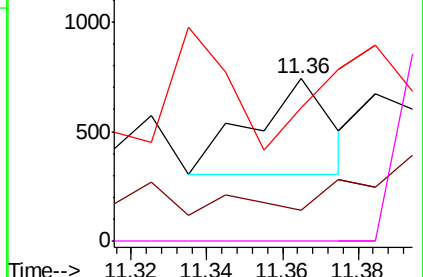
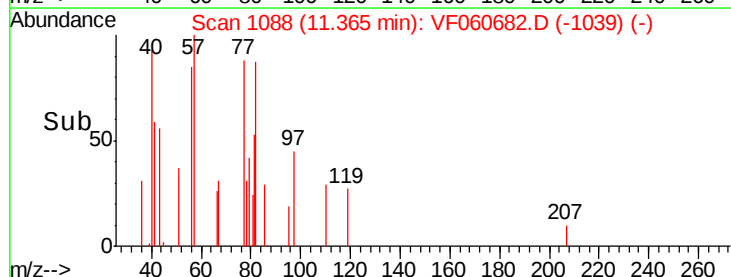


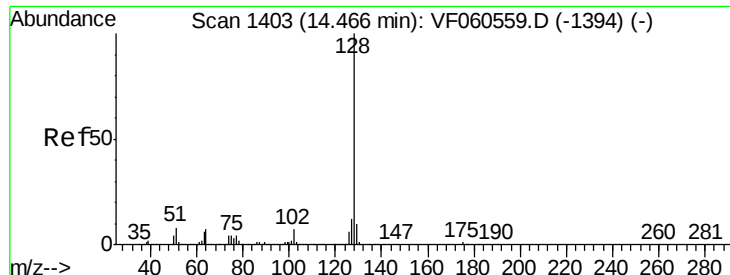
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#95

Naphthalene

Concen: 1.425 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF060682.D

Acq: 9 Nov 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

48382-47191-47202

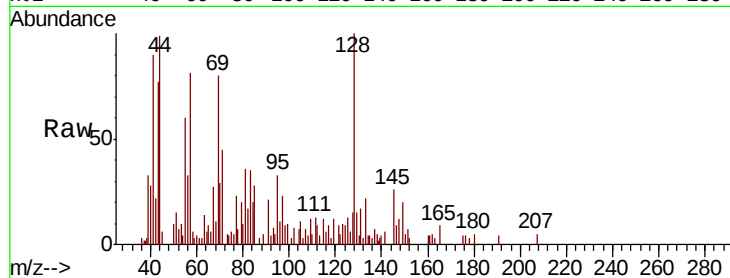
Tgt Ion:128 Resp: 7108

Ion Ratio Lower Upper

128 100

127 15.1 9.4 14.0#

129 14.7 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

