

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060591.D
 Acq On : 6 Nov 2018 2:53
 Operator : VA/AP
 Sample : VF1105SBL02
 Misc : 5.00/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 07:37:21 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	4.88	168	252171	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.60	114	481291	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	412927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	231231	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	144985	56.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.80%	
35) Dibromofluoromethane	4.12	113	190292	51.18	ug/l	0.02
Spiked Amount 50.000			Recovery	=	102.36%	
50) Toluene-d8	7.57	98	537299	48.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.41	95	249598	51.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.60%	

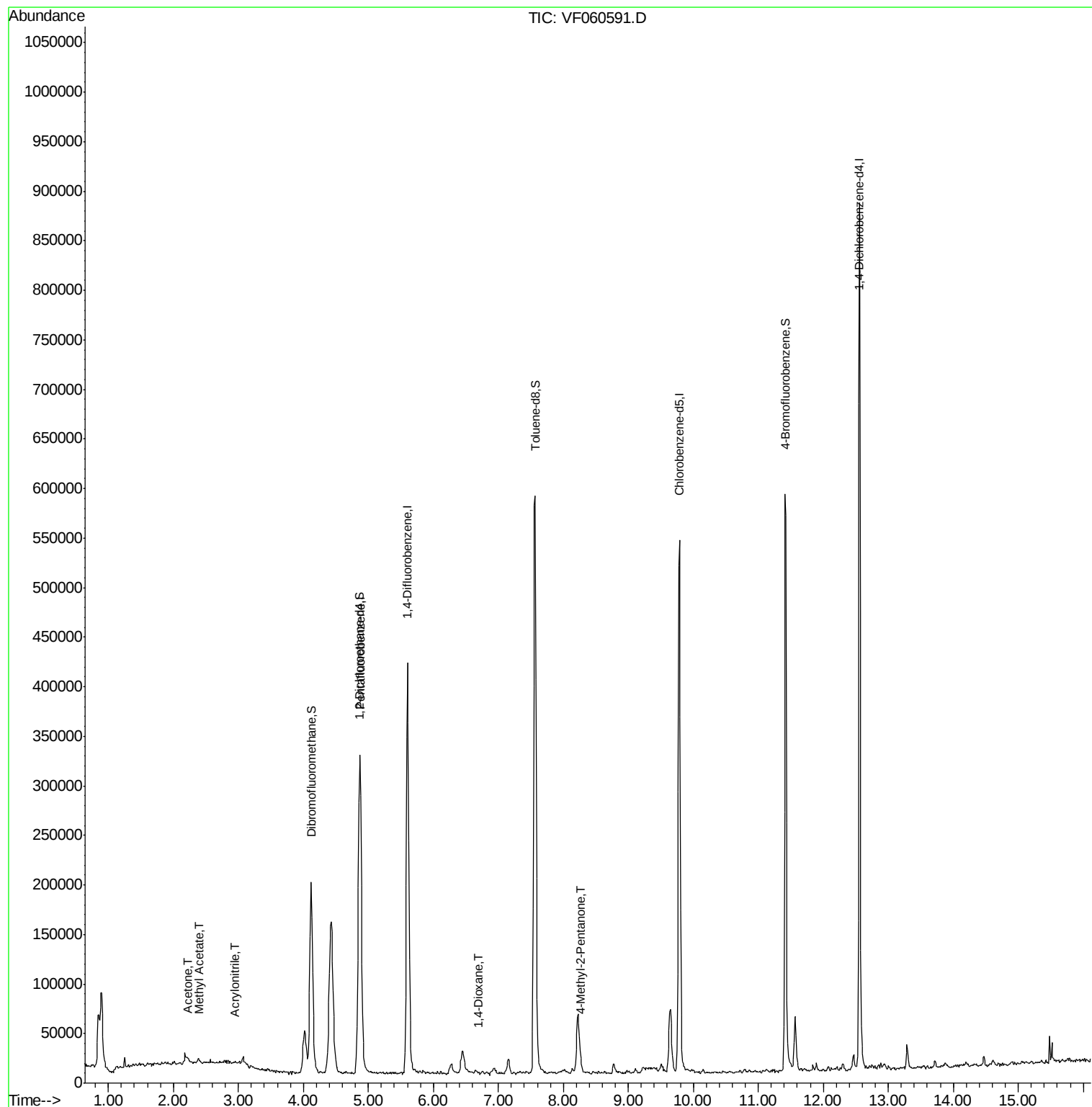
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	1649	Below Cal	#	41
6) Chloroethane	1.38	64	82	Below Cal	#	1
13) Acrolein	2.02	56	288	Below Cal	#	55
15) Acrylonitrile	2.94	53	453	1.492	ug/l #	52
16) Acetone	2.24	43	1878	3.128	ug/l #	92
18) Methyl Acetate	2.40	43	1079	1.625	ug/l #	64
20) Methylene Chloride	2.19	84	5508	Below Cal		89
25) 2-Butanone	4.34	43	935	Below Cal	#	56
29) Tetrahydrofuran	4.06	42	630	Below Cal	#	36
49) 1,4-Dioxane	6.71	88	134	6.334	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	4010	1.853	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.65	63	215	Below Cal		100
59) 2-Hexanone	9.50	43	6513	Below Cal		80
74) N-amyl acetate	11.37	43	2900	Below Cal	#	73
89) n-Butylbenzene	12.85	91	2300	Below Cal		91

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

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Operator : VA/AP
Sample : VF1105SBL02
Misc : 5.00/5mL/MSVOA-F/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Nov 06 07:37:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.02 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

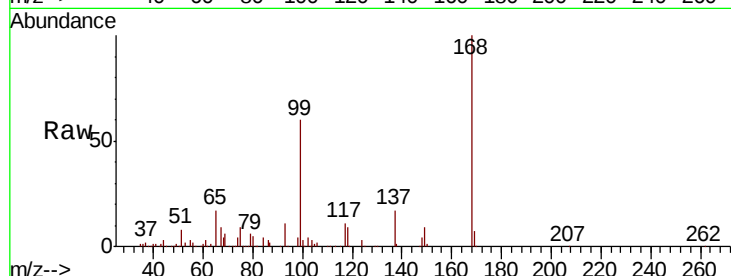
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 252171

Ion Ratio Lower Upper

168 100

99 59.9 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

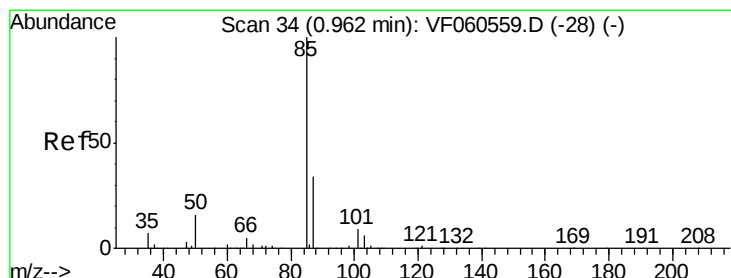
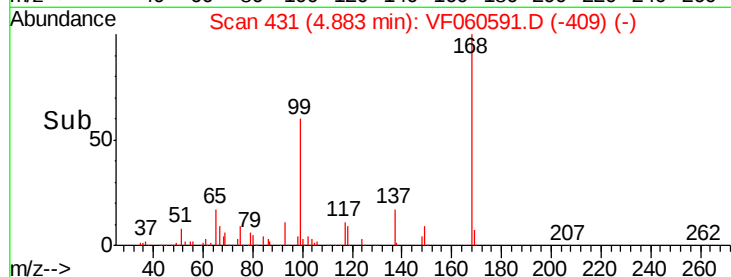
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF060591.D

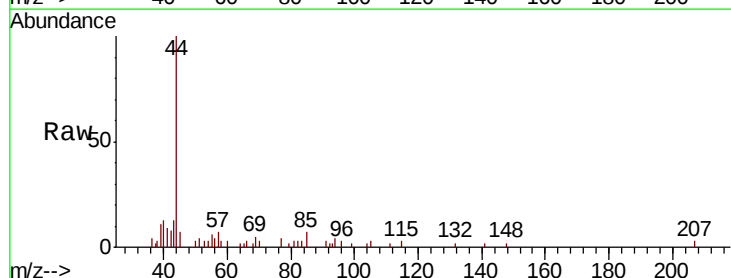
Acq: 6 Nov 2018 2:53

Tgt Ion: 85 Resp: 1649

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

500

400

300

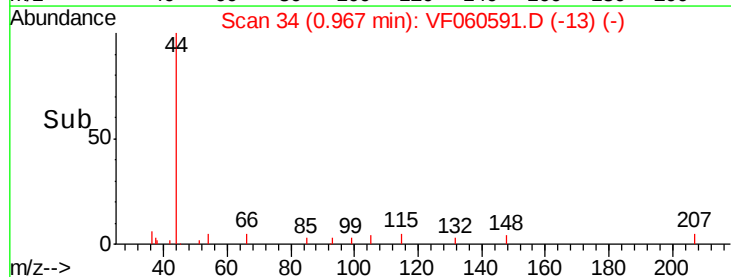
200

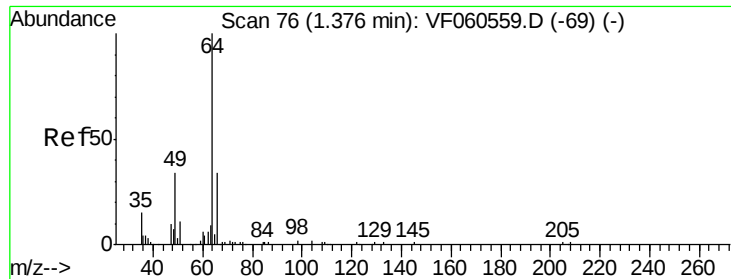
100

0

0.90 0.95 1.00 1.05

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.38 min Scan# 76

Delta R.T. 0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Instrument :

MSVOA_F

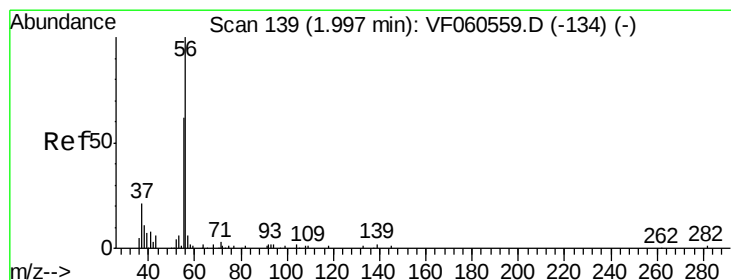
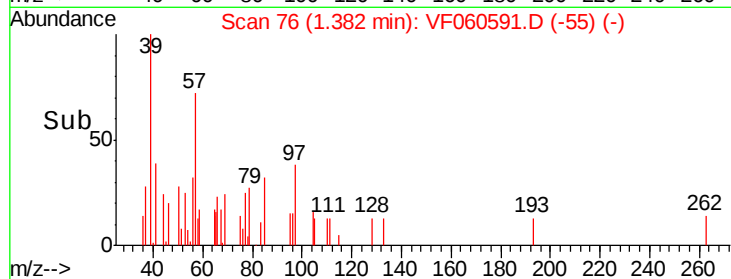
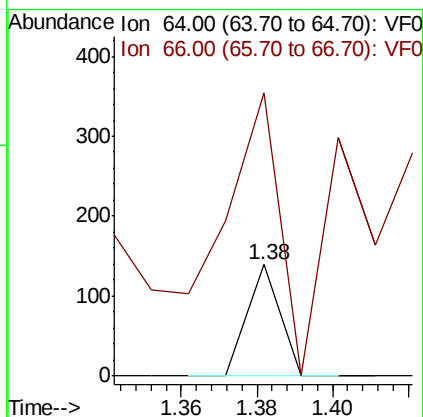
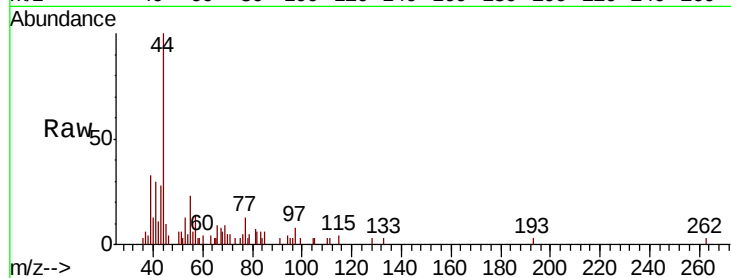
ClientSampleId :

Tot Ion: 64 Resp: 82

Ion Ratio Lower Upper

64 100

66 254.7 27.8 41.8#



#13

Acrolein

Concen: Below Cal

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF060591.D

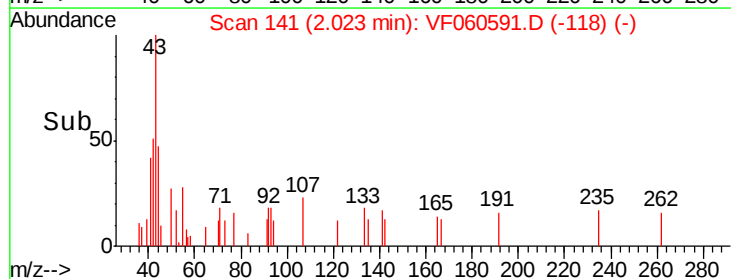
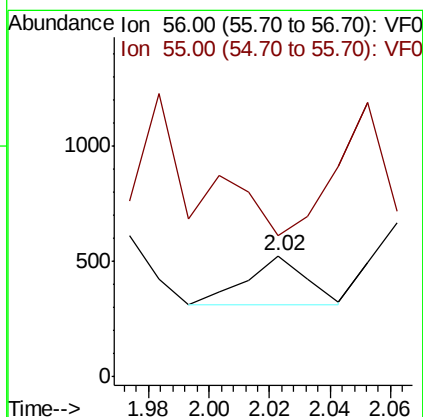
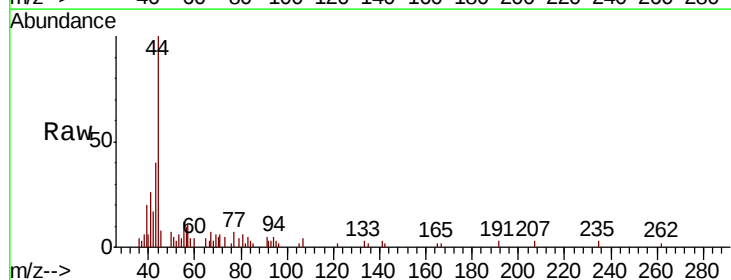
Acq: 6 Nov 2018 2:53

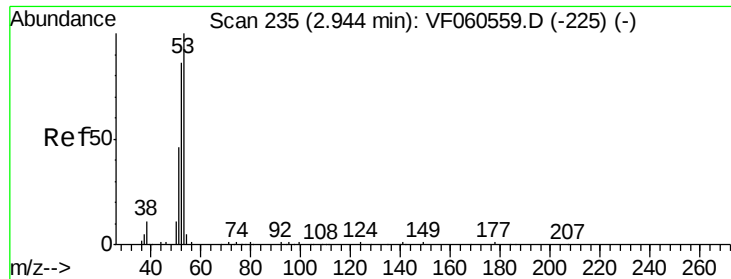
Tgt Ion: 56 Resp: 288

Ion Ratio Lower Upper

56 100

55 116.3 61.8 92.6#





#15

Acrylonitrile

Concen: 1.492 ug/l

RT: 2.94 min Scan# 234

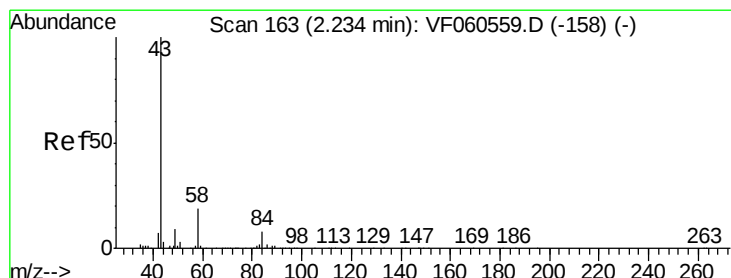
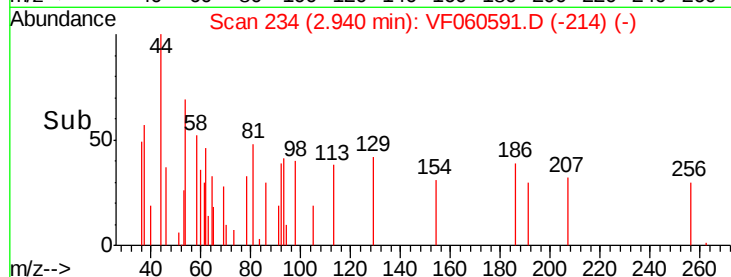
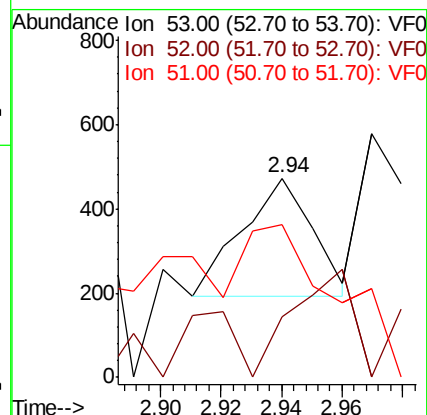
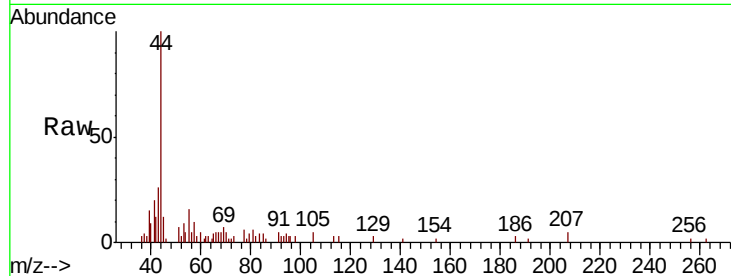
Delta R.T. -0.00 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	453
Ion	Ratio	Lower	Upper
53	100		
52	20.3	68.5	102.7#
51	50.9	38.2	57.2



#16

Acetone

Concen: 3.128 ug/l

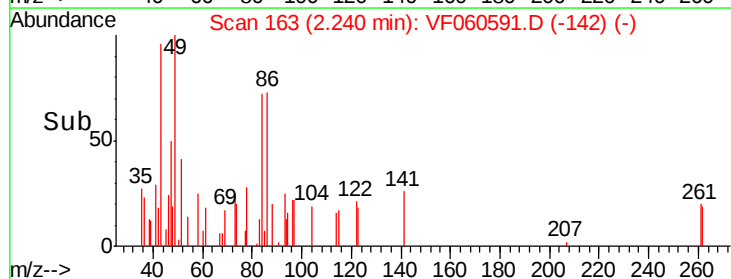
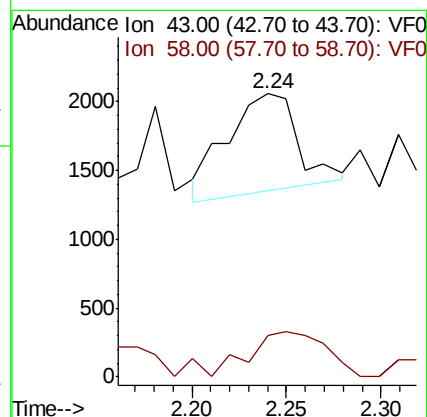
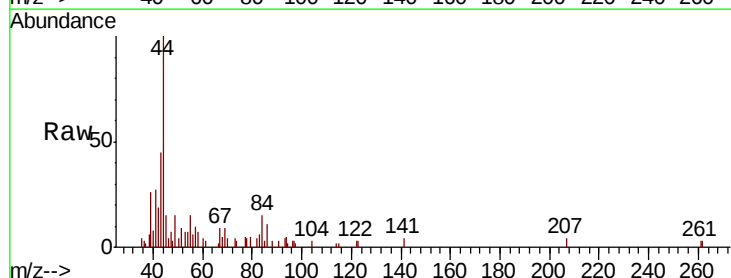
RT: 2.24 min Scan# 163

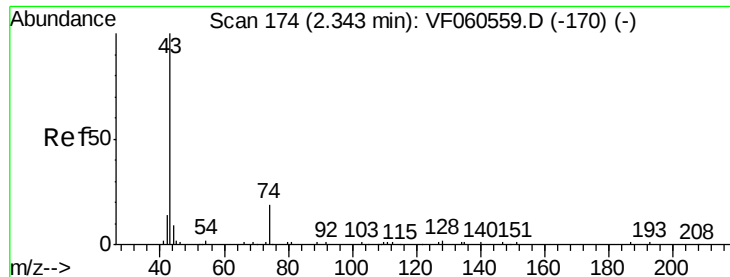
Delta R.T. 0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Tgt Ion:	43	Resp:	1878
Ion	Ratio	Lower	Upper
43	100		
58	14.6	14.6	22.0#

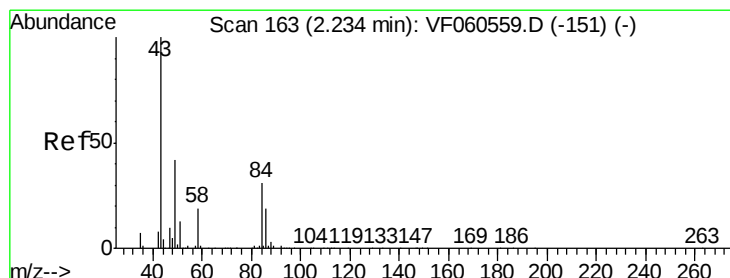
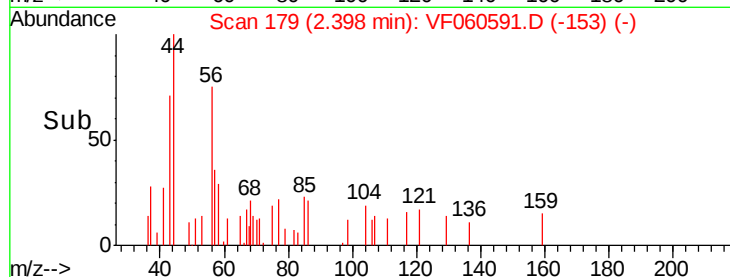
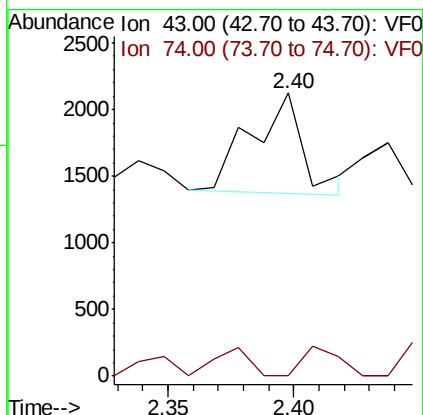
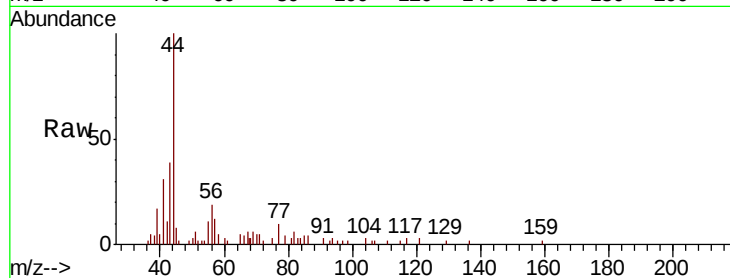




#18
Methyl Acetate
Concen: 1.625 ug/l
RT: 2.40 min Scan# 179
Delta R.T. 0.06 min
Lab File: VF060591.D
Acq: 6 Nov 2018 2:53

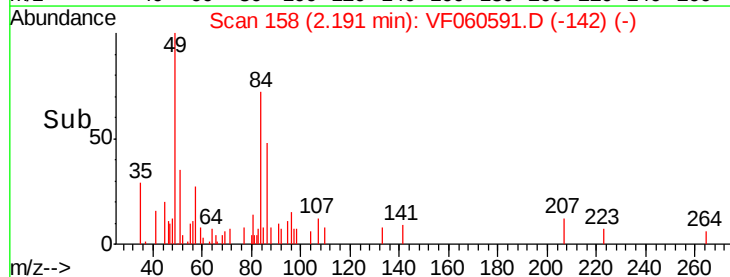
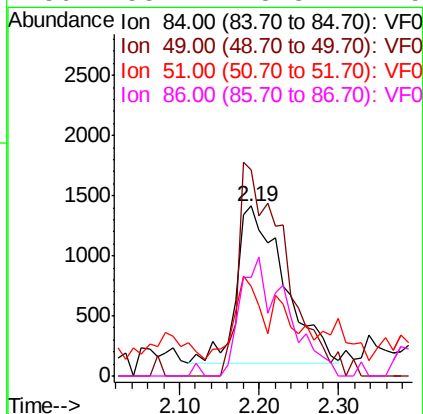
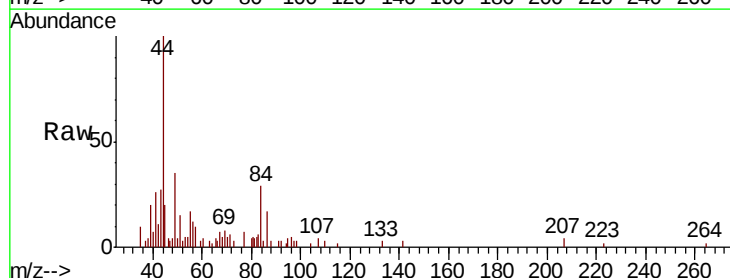
Instrument :
MSVOA_F
ClientSampleId :

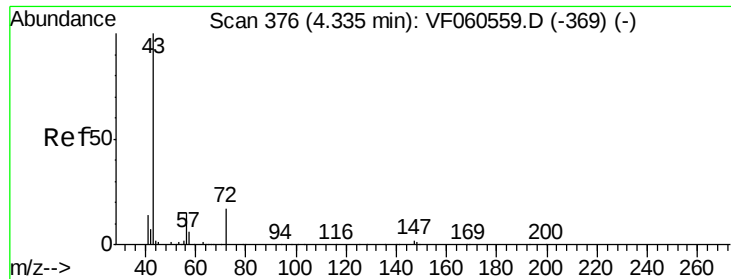
Tot Ion: 43 Resp: 1079
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.04 min
Lab File: VF060591.D
Acq: 6 Nov 2018 2:53

Tgt Ion: 84 Resp: 5508
Ion Ratio Lower Upper
84 100
49 120.8 109.9 164.9
51 52.4 35.8 53.8
86 58.1 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

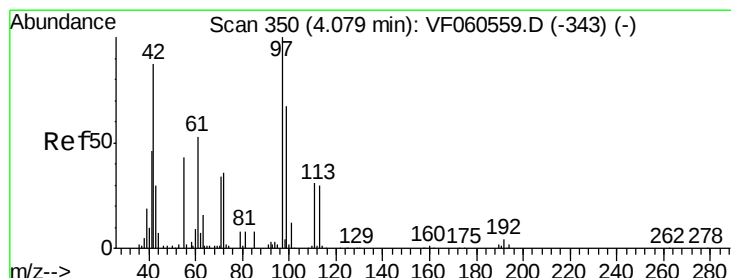
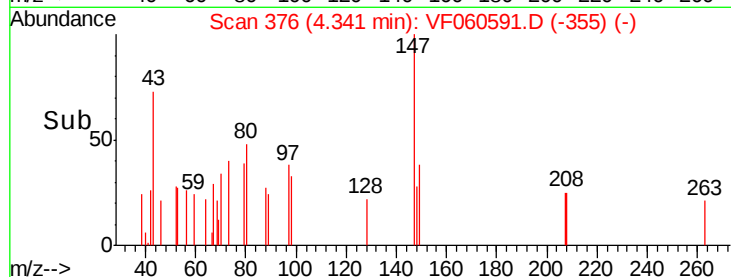
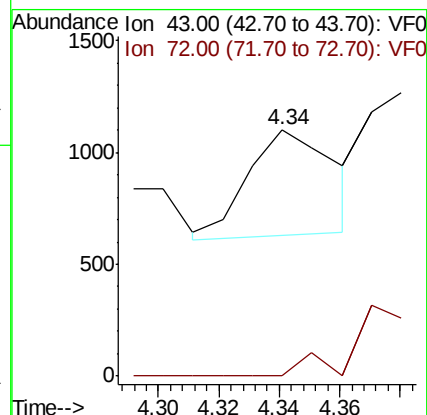
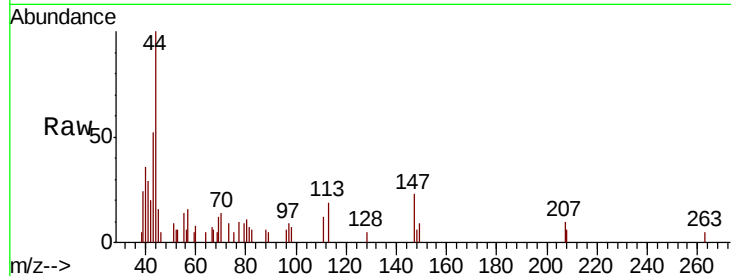
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 935

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

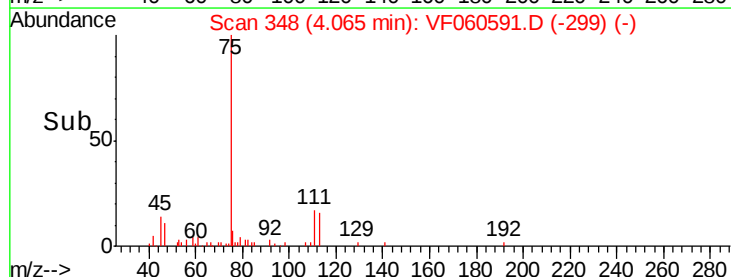
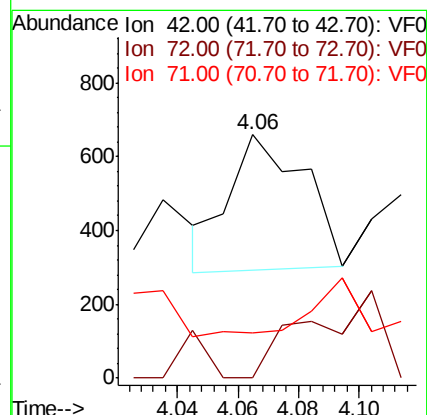
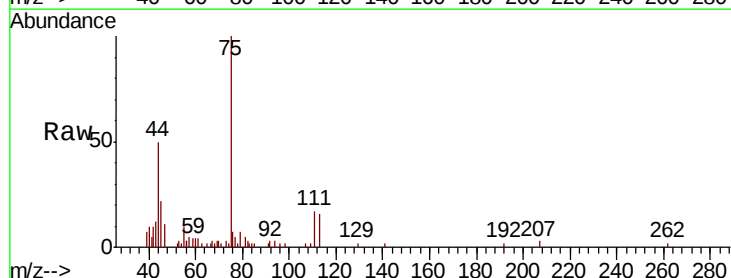
Tgt Ion: 42 Resp: 630

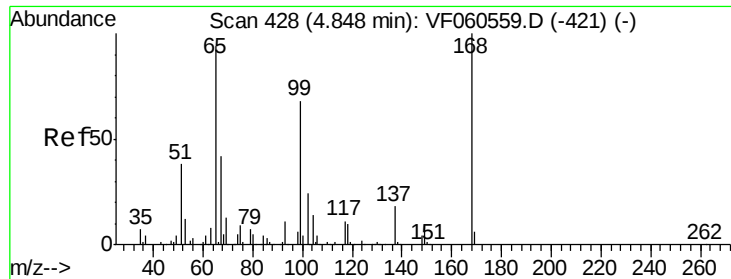
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.8 47.6#

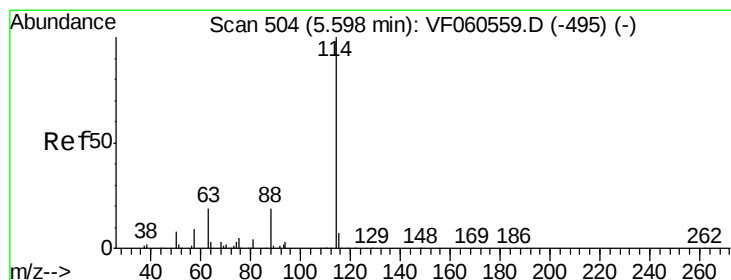
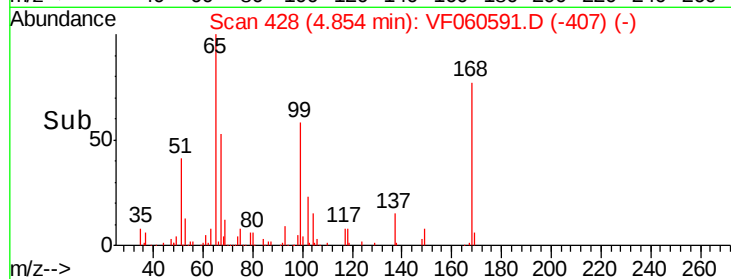
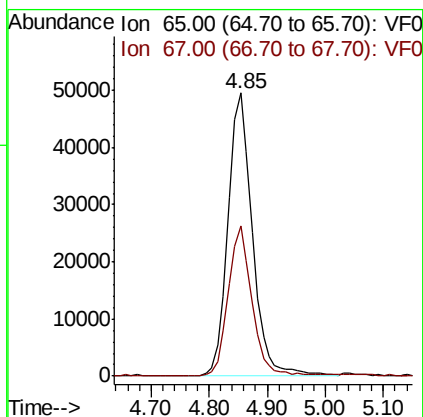
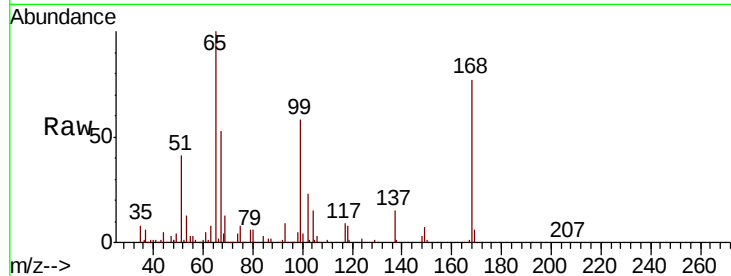




#33
 1,2-Dichloroethane-d4
 Concen: 56.905 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF060591.D
 Acq: 6 Nov 2018 2:53

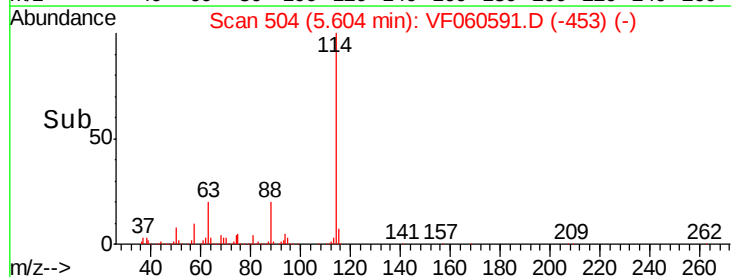
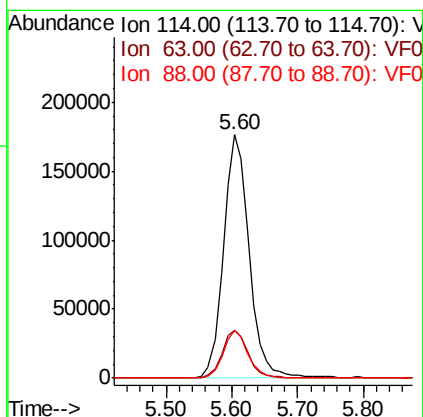
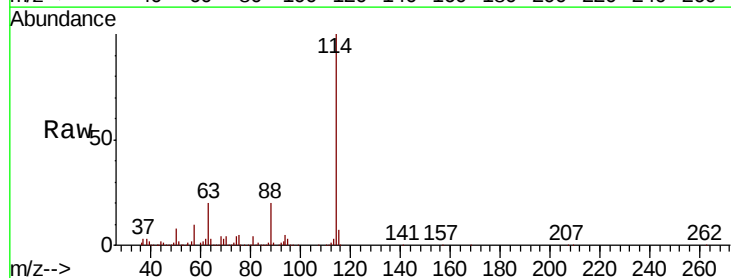
Instrument :
 MSVOA_F
 ClientSampled :

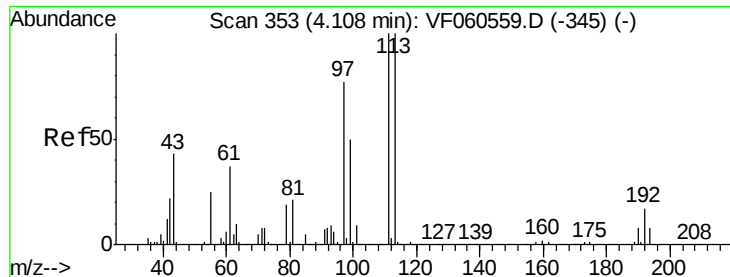
Tot Ion: 65 Resp: 144985
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF060591.D
 Acq: 6 Nov 2018 2:53

Tgt Ion: 114 Resp: 481291
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 19.7 0.0 38.2

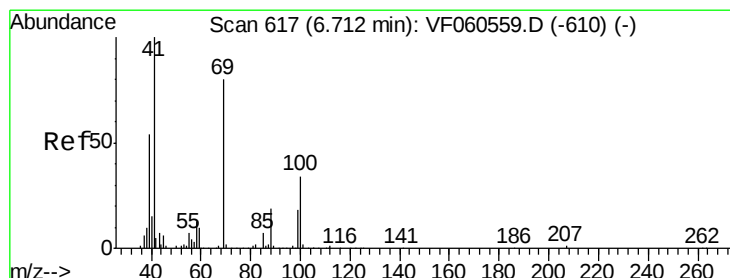
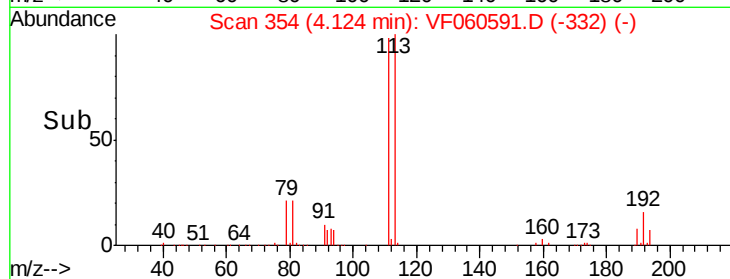
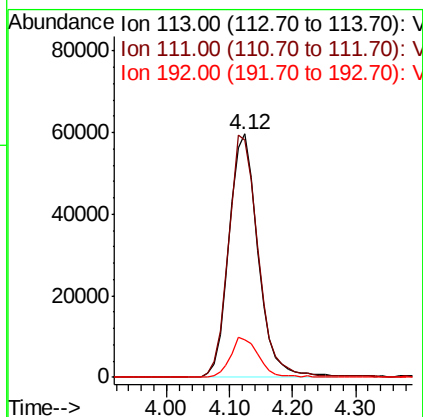
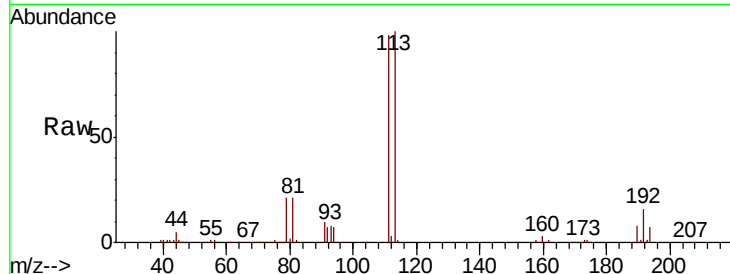




#35
 Dibromofluoromethane
 Concen: 51.175 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.02 min
 Lab File: VF060591.D
 Acq: 6 Nov 2018 2:53

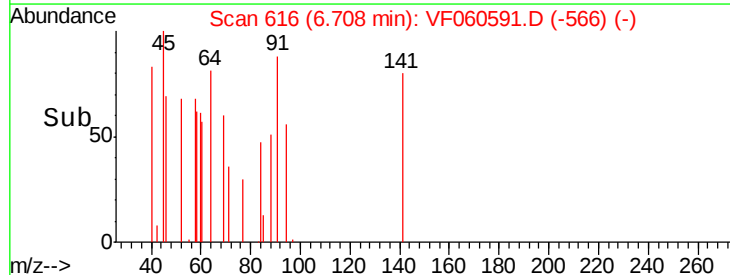
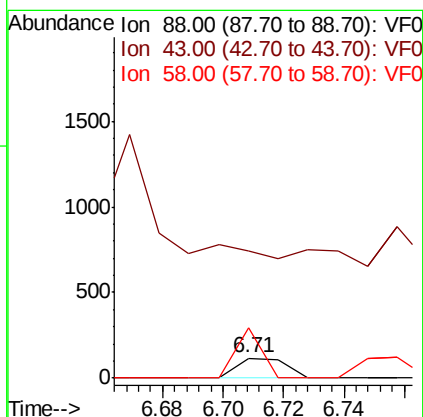
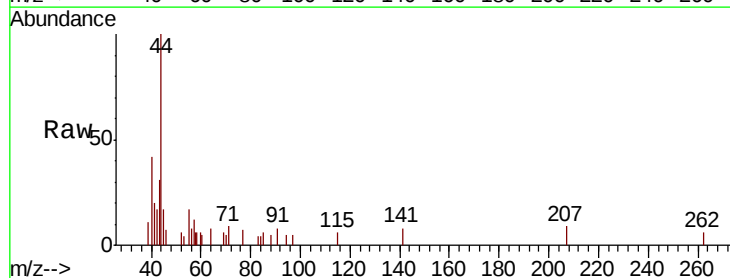
Instrument :
 MSVOA_F
 ClientSampleId :

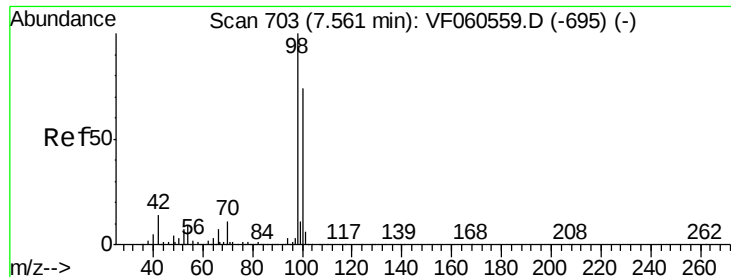
Tot Ion	Ratio	Lower	Upper
113	100		
111	97.5	79.9	119.9
192	15.6	13.3	19.9



#49
 1,4-Dioxane
 Concen: 6.334 ug/l
 RT: 6.71 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: VF060591.D
 Acq: 6 Nov 2018 2:53

Tgt Ion	Ratio	Lower	Upper
88	100		
43	632.5	61.2	91.8#
58	253.8	56.9	85.3#

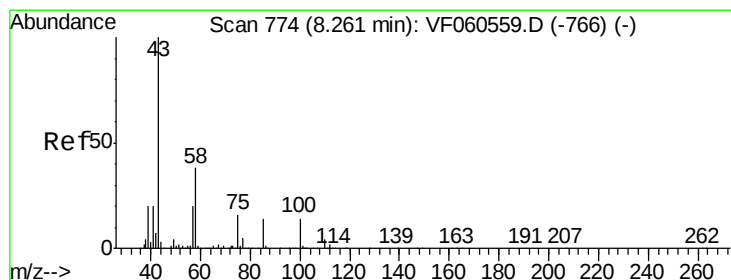
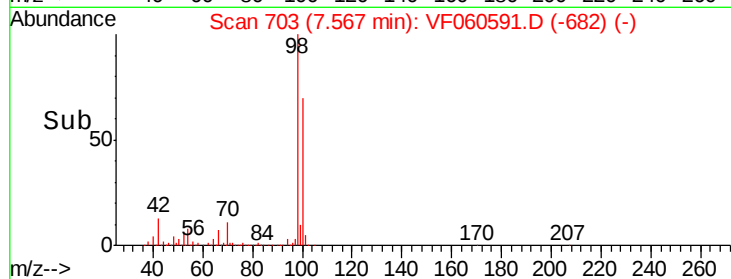
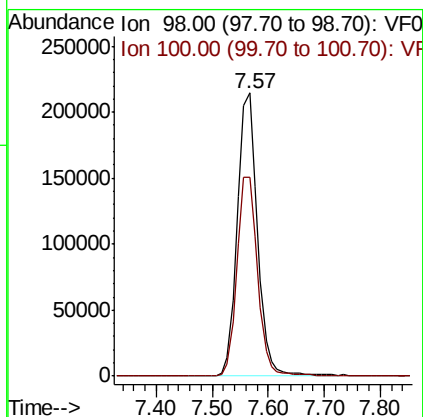
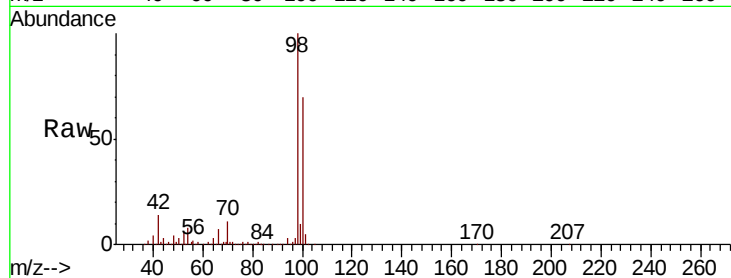




#50
Toluene-d8
Concen: 48.778 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF060591.D
Acq: 6 Nov 2018 2:53

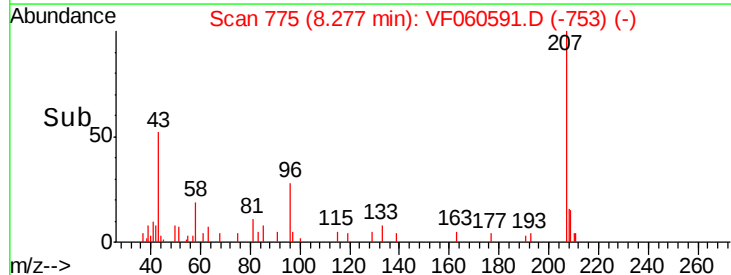
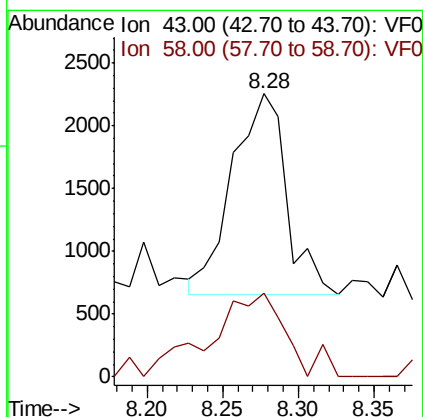
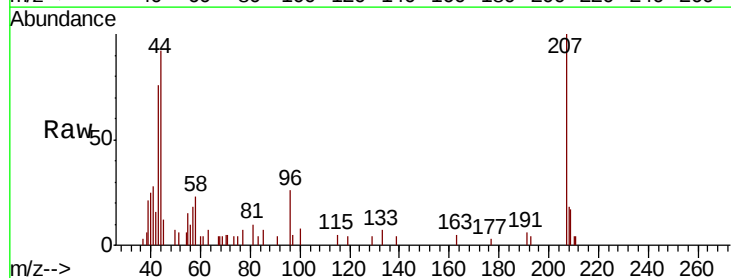
Instrument :
MSVOA_F
ClientSampleId :

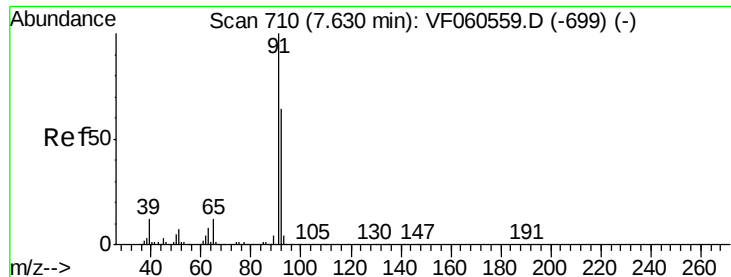
Tot Ion: 98 Resp: 537299
Ion Ratio Lower Upper
98 100
100 70.3 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 1.853 ug/l
RT: 8.28 min Scan# 775
Delta R.T. 0.02 min
Lab File: VF060591.D
Acq: 6 Nov 2018 2:53

Tgt Ion: 43 Resp: 4010
Ion Ratio Lower Upper
43 100
58 29.7 30.1 45.1#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.65 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Instrument :

MSVOA_F

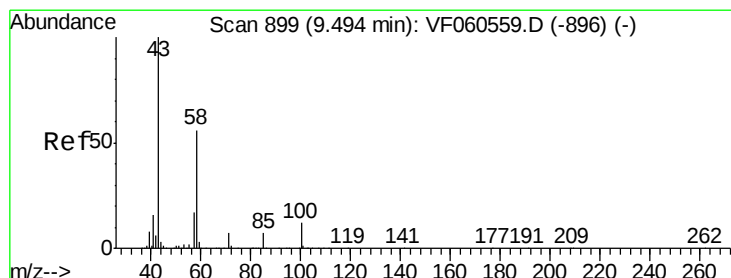
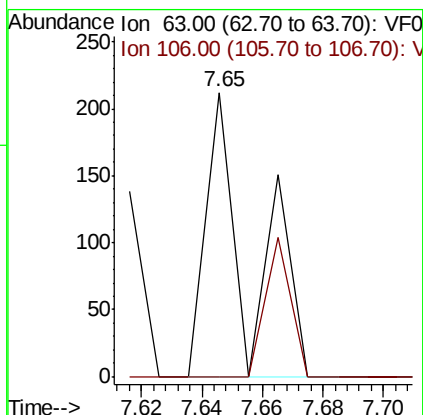
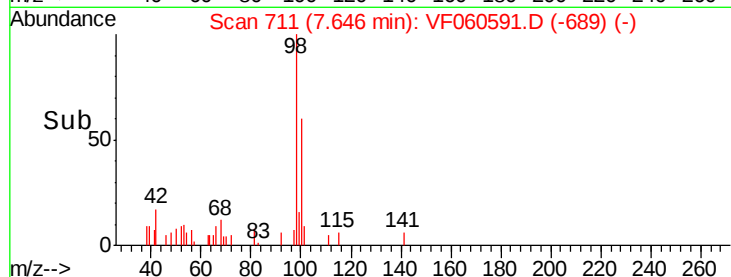
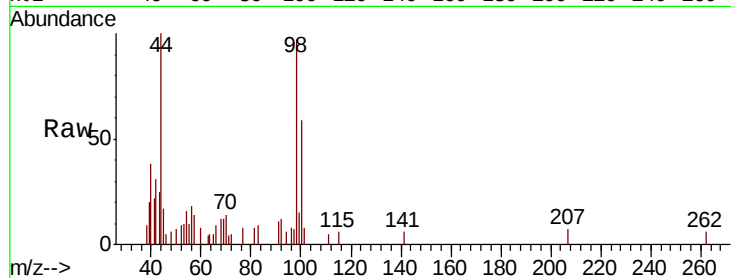
ClientSampleId :

Tot Ion: 63 Resp: 215

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: VF060591.D

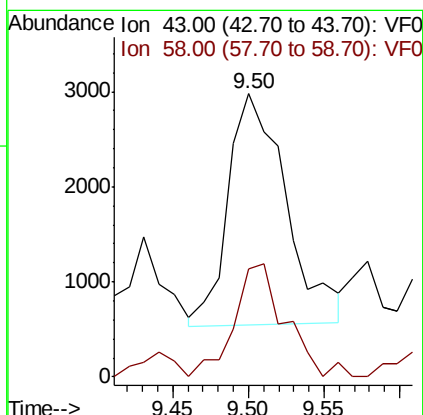
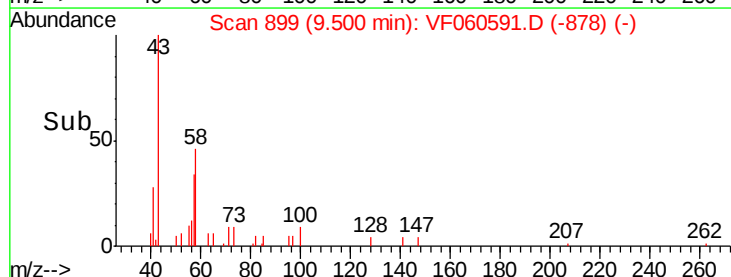
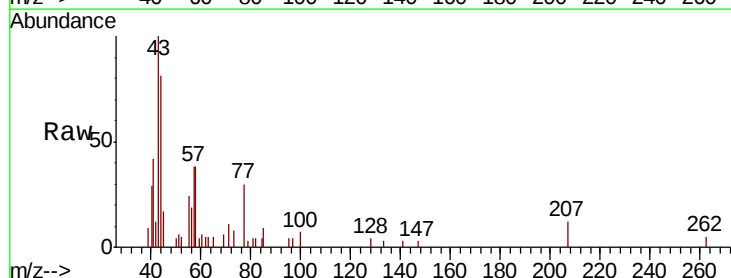
Acq: 6 Nov 2018 2:53

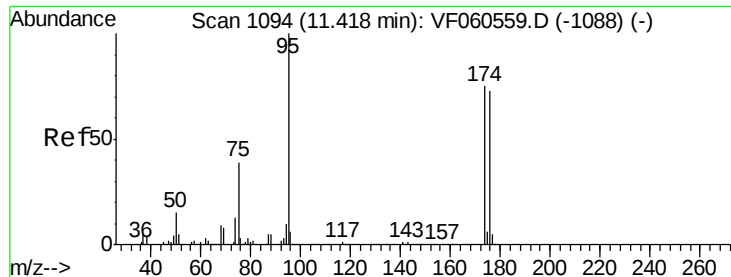
Tgt Ion: 43 Resp: 6513

Ion Ratio Lower Upper

43 100

58 38.3 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 51.803 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Instrument :

MSVOA_F

ClientSampleId :

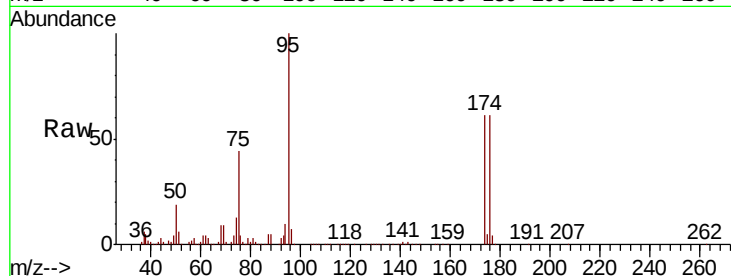
Tot Ion: 95 Resp: 249598

Ion Ratio Lower Upper

95 100

174 61.4 0.0 149.0

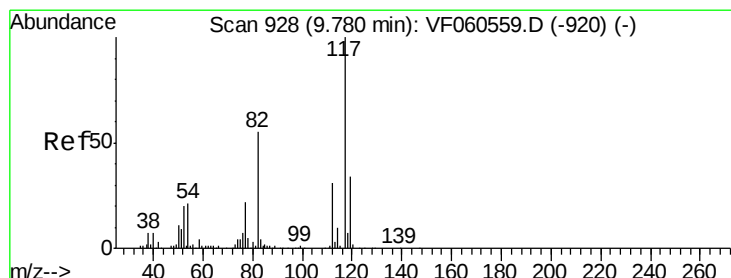
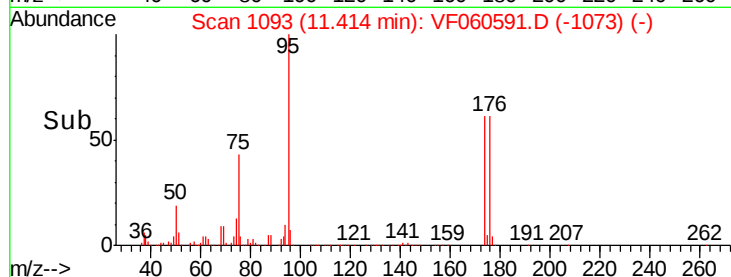
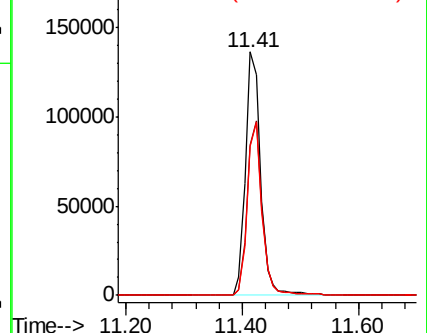
176 61.4 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

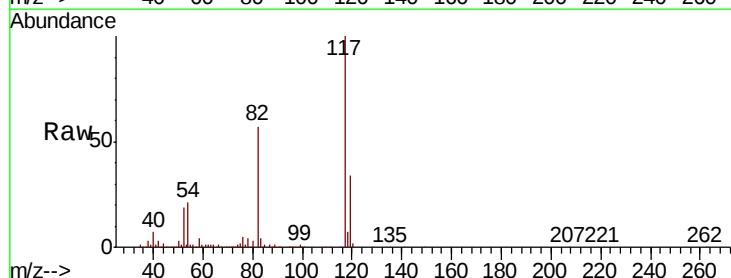
Tgt Ion: 117 Resp: 412927

Ion Ratio Lower Upper

117 100

82 56.8 43.9 65.9

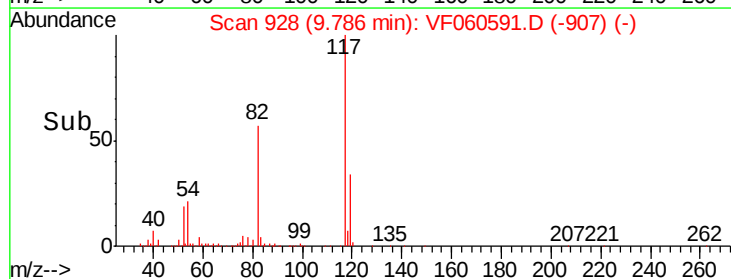
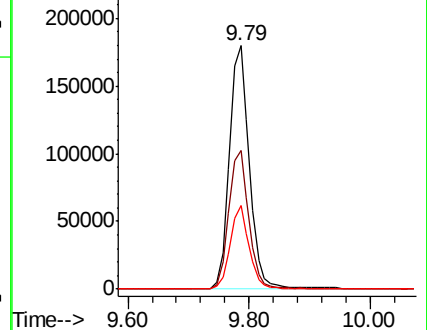
119 34.4 27.4 41.0

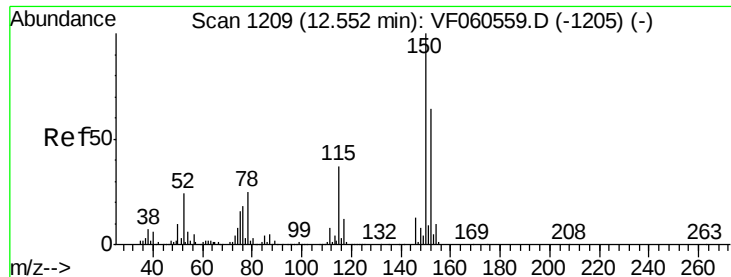


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Instrument :

MSVOA_F

ClientSampleId :

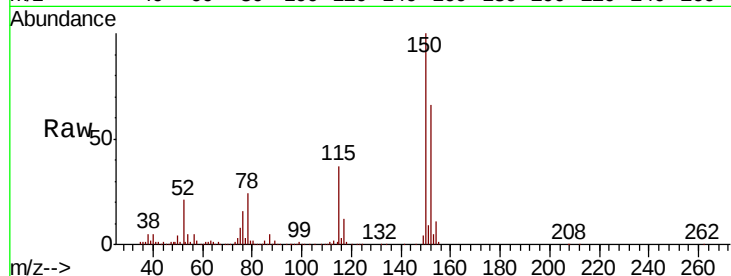
Tot Ion:152 Resp: 231231

Ion Ratio Lower Upper

152 100

115 56.0 29.6 88.8

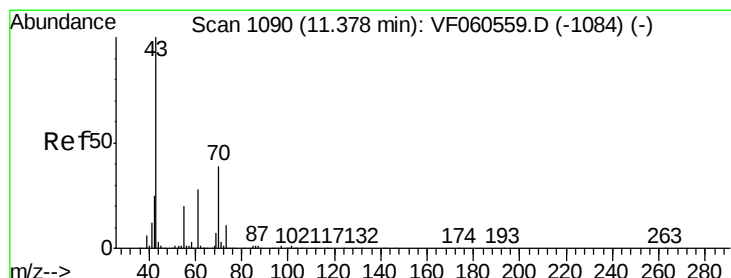
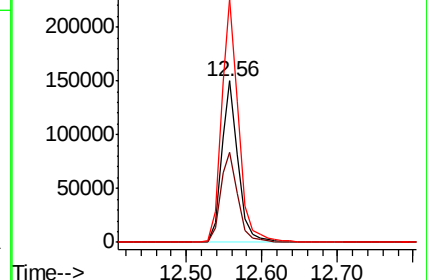
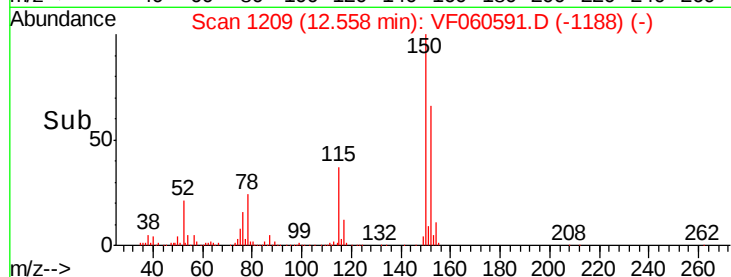
150 151.0 0.0 315.6



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-ethyl acetate

Concen: Below Cal

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF060591.D

Acq: 6 Nov 2018 2:53

Tgt Ion: 43 Resp: 2900

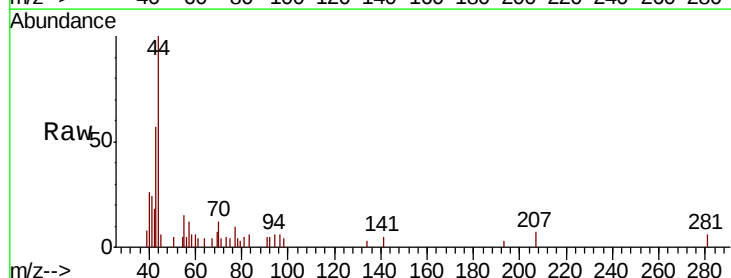
Ion Ratio Lower Upper

43 100

70 21.2 30.9 46.3#

55 25.4 16.6 24.8#

61 7.2 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

