

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059400.D
 Acq On : 2 Jul 2018 21:19
 Operator : VA/AP
 Sample : J3802-06RE
 Misc : 5.64g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-6(2.0)RE

Quant Time: Jul 03 01:11:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	187197	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	304018	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	290597	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	175598	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	167400	69.21	ug/l	-0.01
Spiked Amount			Recovery	=	138.42%	
35) Dibromofluoromethane	4.27	113	149973	67.51	ug/l	-0.01
Spiked Amount			Recovery	=	135.02%	
50) Toluene-d8	7.69	98	365011	66.37	ug/l	-0.01
Spiked Amount			Recovery	=	132.74%	
62) 4-Bromofluorobenzene	11.49	95	186392	60.08	ug/l	-0.01
Spiked Amount			Recovery	=	120.16%	

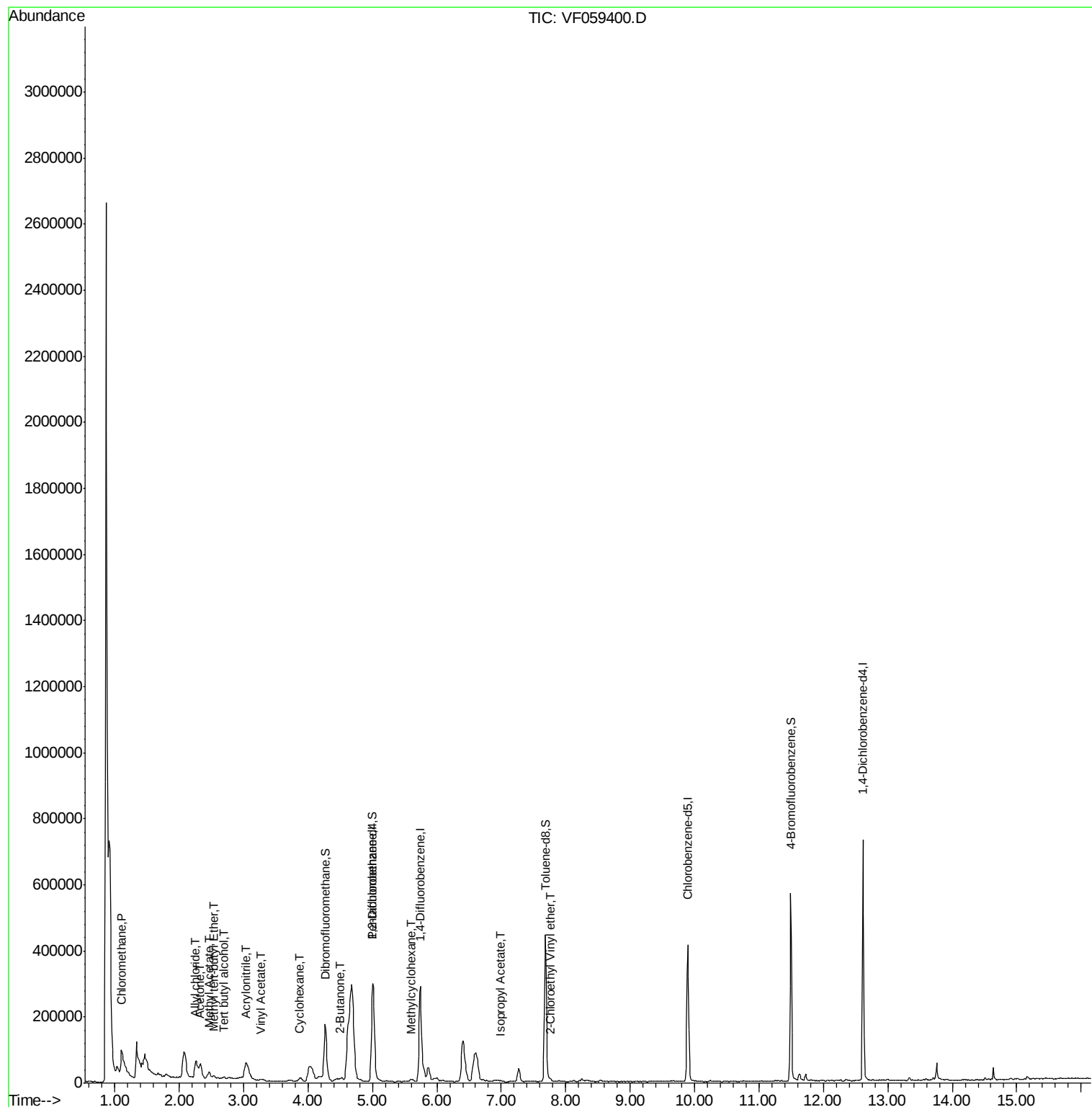
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	8035	6.99	ug/l	92
5) Bromomethane	1.27	94	555	Below Cal		95
11) Tert butyl alcohol	2.69	59	1806	11.22	ug/l #	18
13) Acrolein	1.96	56	607	Below Cal		88
14) Allyl chloride	2.26	41	36737	17.73	ug/l #	23
15) Acrylonitrile	3.02	53	1713	6.04	ug/l #	53
16) Acetone	2.33	43	52058	79.22	ug/l #	92
18) Methyl Acetate	2.45	43	13186	11.18	ug/l #	77
19) Methyl tert-butyl Ether	2.53	73	7439	1.81	ug/l #	82
20) Methylene Chloride	2.26	84	3460	Below Cal	#	85
23) Vinyl Acetate	3.27	43	3503	1.20	ug/l #	79
25) 2-Butanone	4.49	43	12932	15.09	ug/l	96
28) Bromochloromethane	3.73	49	75	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	757	Below Cal	#	26
31) Cyclohexane	3.88	56	5349	2.87	ug/l #	39
37) Ethyl Acetate	4.33	43	606	Below Cal	#	67
39) Methylcyclohexane	5.60	83	3648	1.55	ug/l #	62
43) Isopropyl Acetate	6.99	43	4963	2.24	ug/l #	52
49) 1,4-Dioxane	6.83	88	99	Below Cal	#	24
58) 2-Chloroethyl Vinyl ether	7.76	63	707	4.45	ug/l	100
59) 2-Hexanone	9.64	43	2088	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.54	146	144	Below Cal	#	15

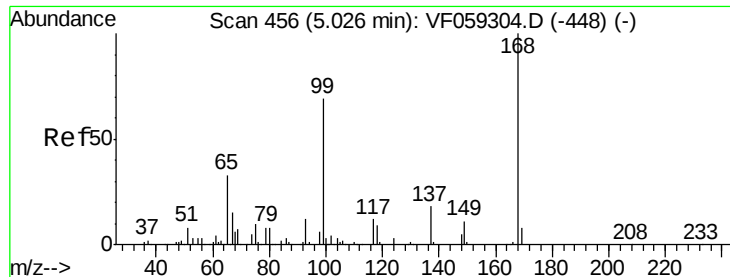
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

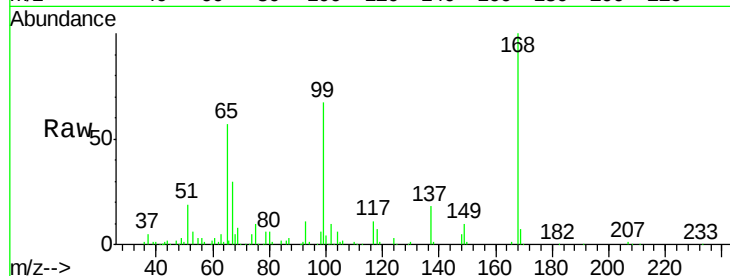
CF-6(2.0)RE

Tot Ion:168 Resp: 187197

Ion Ratio Lower Upper

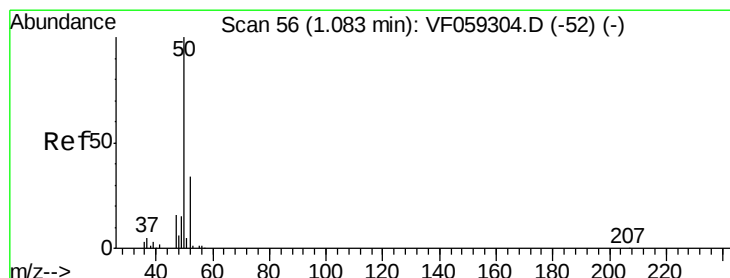
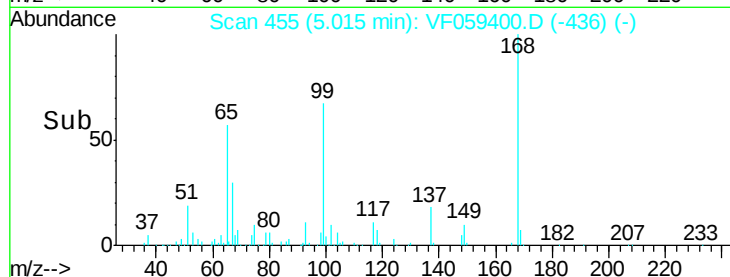
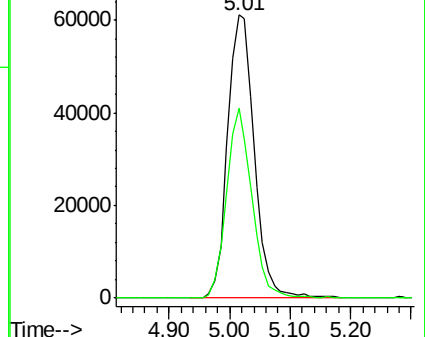
168 100

99 67.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 6.99 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059400.D

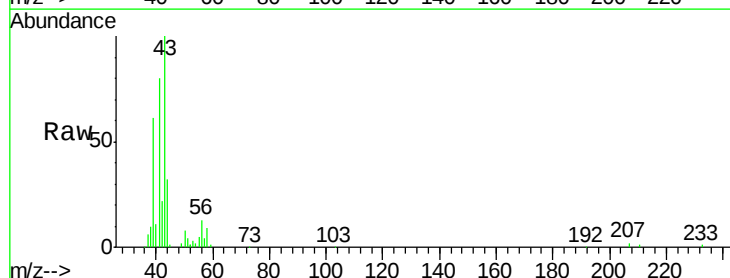
Acq: 2 Jul 2018 21:19

Tgt Ion: 50 Resp: 8035

Ion Ratio Lower Upper

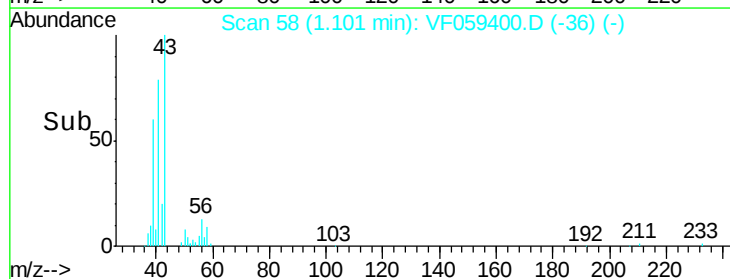
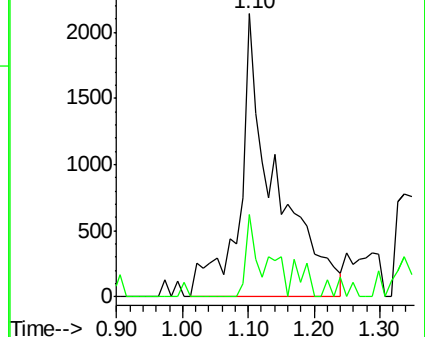
50 100

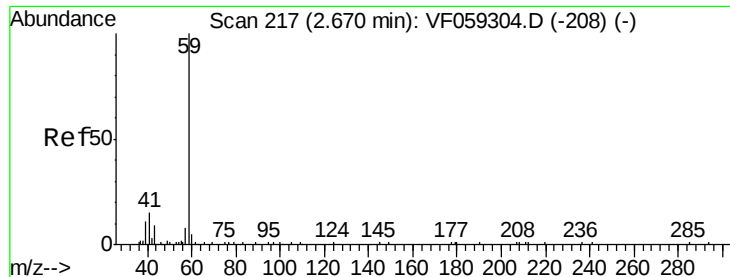
52 29.0 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



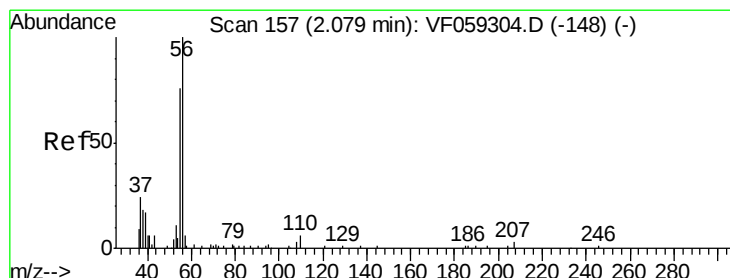
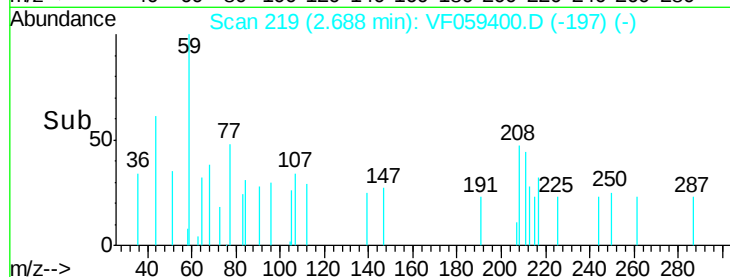
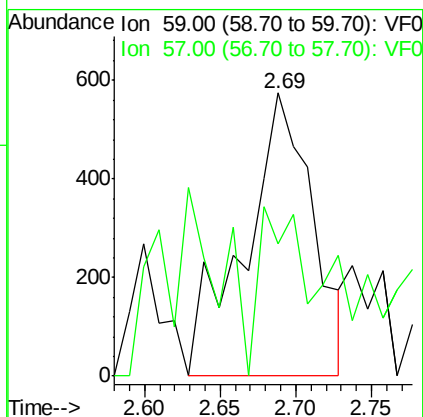
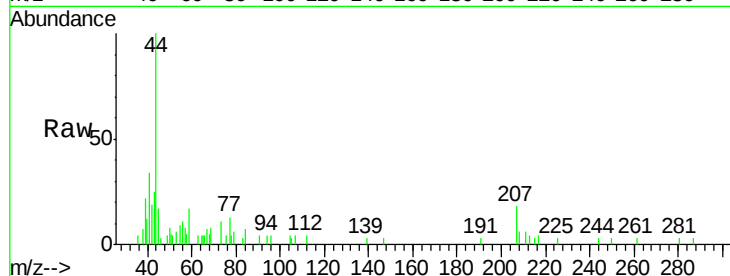


#11

Tert butyl alcohol
 Concen: 11.22 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.02 min
 Lab File: VF059400.D
 Acq: 2 Jul 2018 21:19

Instrument :
 MSVOA_F
 ClientSampled :
 CF-6(2.0)RE

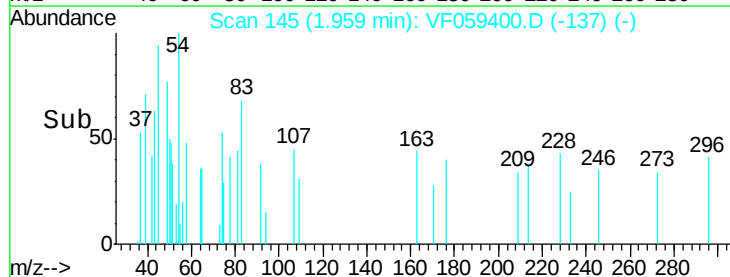
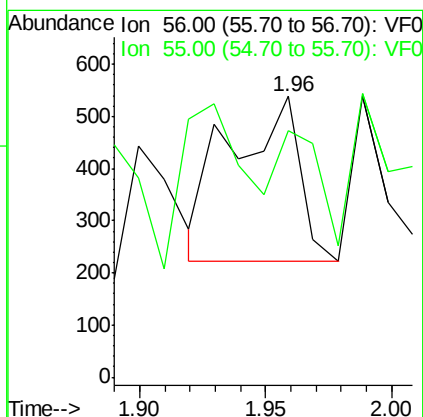
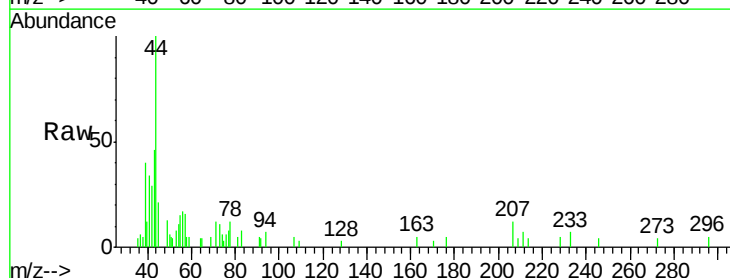
Tot Ion: 59 Resp: 1806
 Ion Ratio Lower Upper
 59 100
 57 46.9 11.0 16.4#

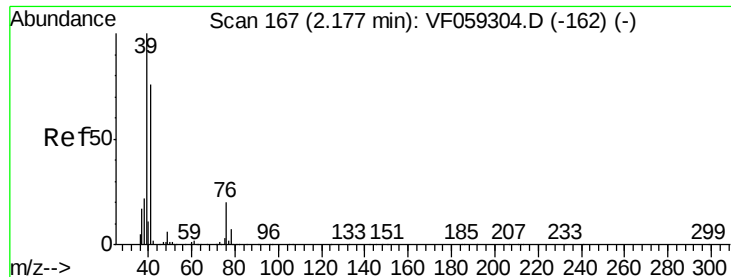


#13

Acrolein
 Concen: Below Cal
 RT: 1.96 min Scan# 145
 Delta R.T. -0.12 min
 Lab File: VF059400.D
 Acq: 2 Jul 2018 21:19

Tgt Ion: 56 Resp: 607
 Ion Ratio Lower Upper
 56 100
 55 88.1 62.4 93.6

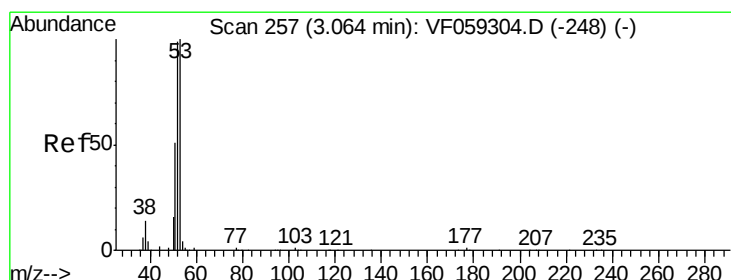
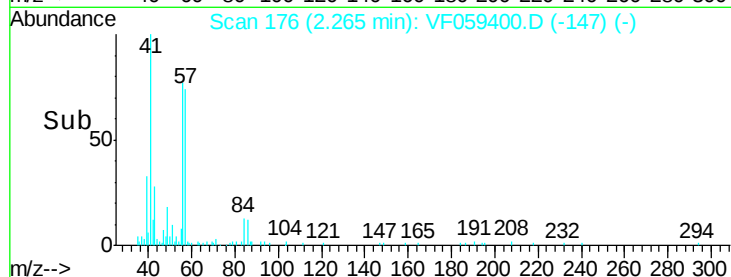
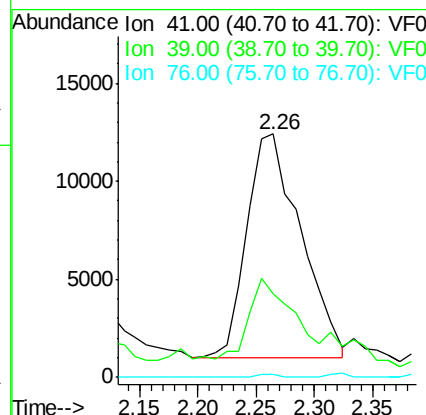
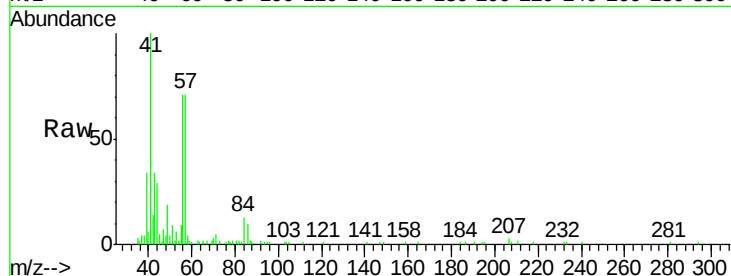




#14
Allvl chloride
Concen: 17.73 ug/l
RT: 2.26 min Scan# 176
Delta R.T. 0.09 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

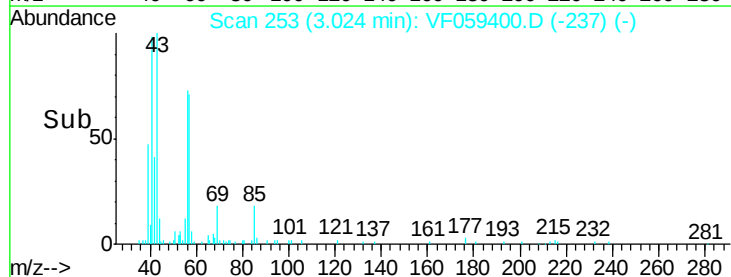
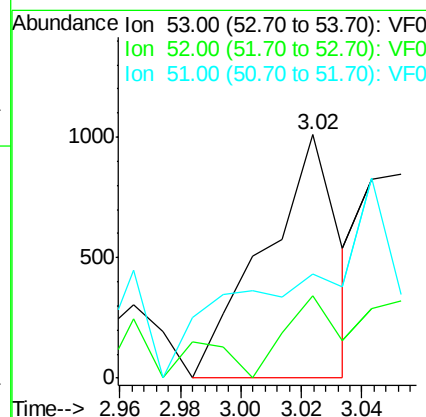
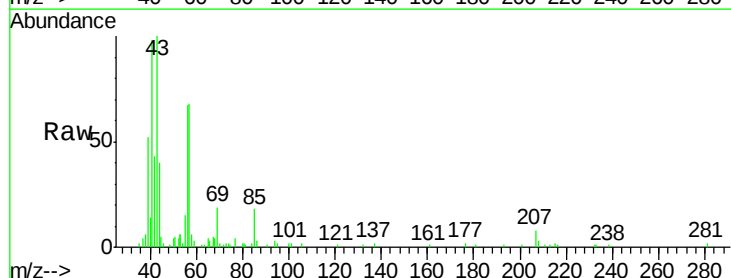
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)RE

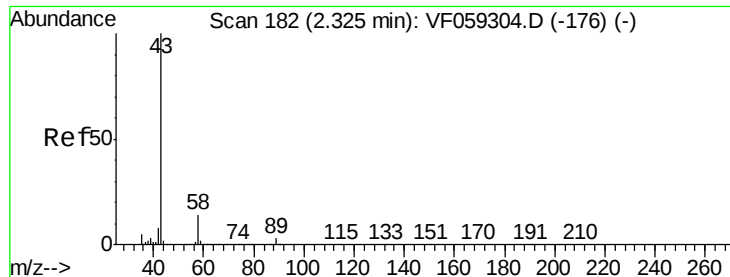
Tot Ion: 41 Resp: 36737
Ion Ratio Lower Upper
41 100
39 34.4 105.6 158.4#
76 1.3 21.6 32.4#



#15
Acrylonitrile
Concen: 6.04 ug/l
RT: 3.02 min Scan# 253
Delta R.T. -0.04 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion: 53 Resp: 1713
Ion Ratio Lower Upper
53 100
52 33.8 79.2 118.8#
51 42.8 40.9 61.3

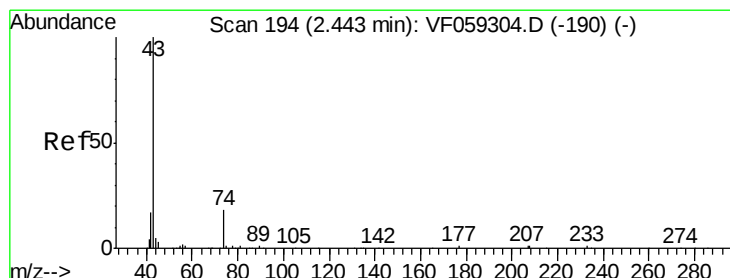
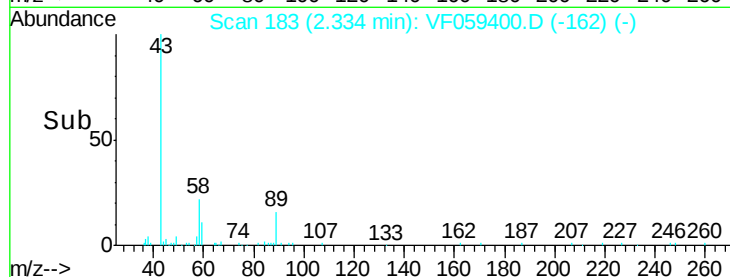
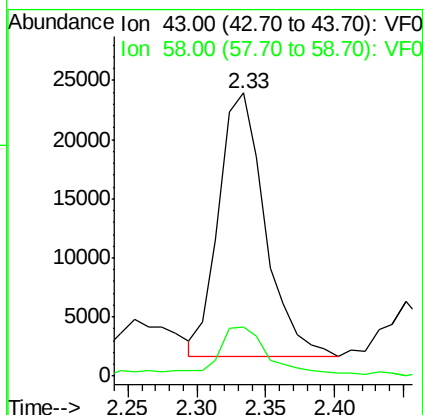
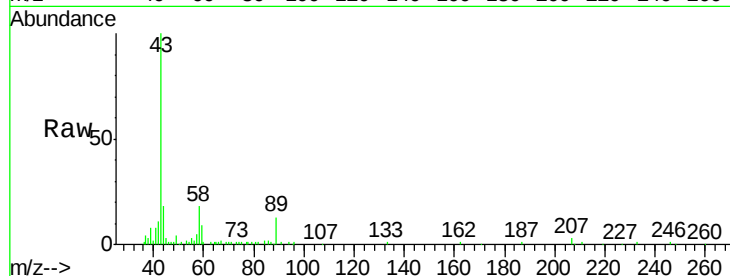




#16
Acetone
Concen: 79.22 ug/l
RT: 2.33 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

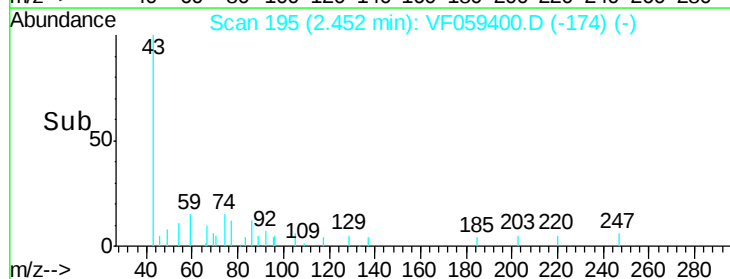
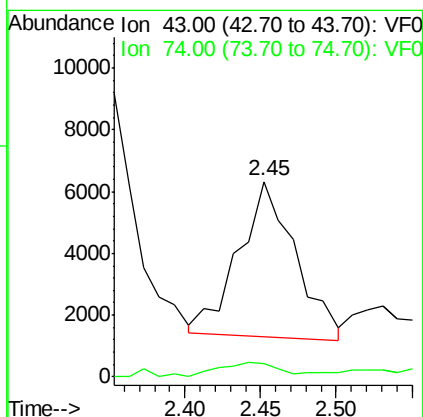
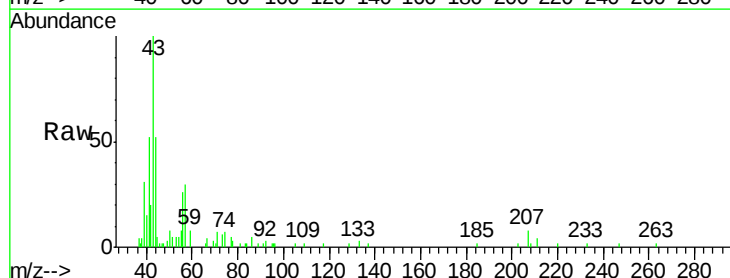
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)RE

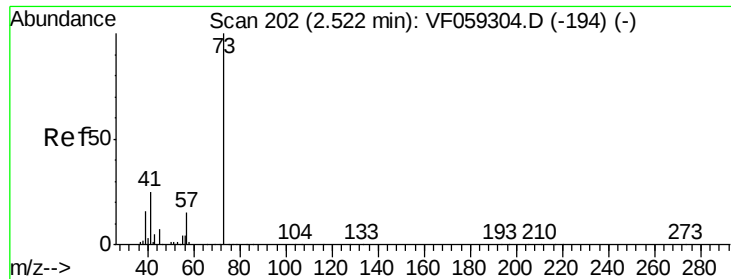
Tot Ion: 43 Resp: 52058
Ion Ratio Lower Upper
43 100
58 17.6 11.4 17.0#



#18
Methyl Acetate
Concen: 11.18 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion: 43 Resp: 13186
Ion Ratio Lower Upper
43 100
74 6.6 13.3 19.9#





#19

Methyl tert-butyl Ether

Concen: 1.81 ug/l

RT: 2.53 min Scan# 203

Delta R.T. 0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

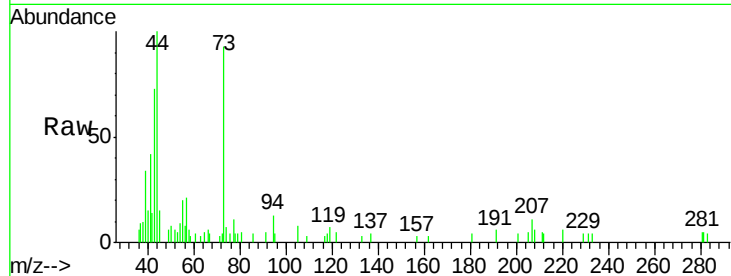
CF-6(2.0)RE

Tot Ion: 73 Resp: 7439

Ion Ratio Lower Upper

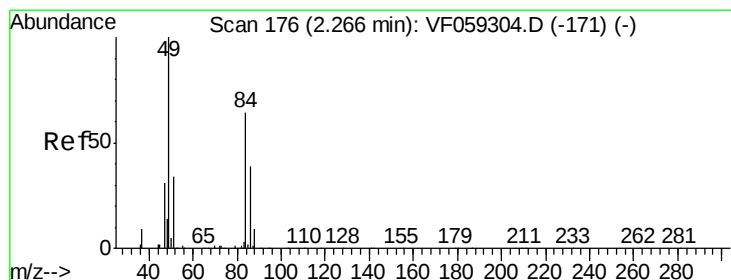
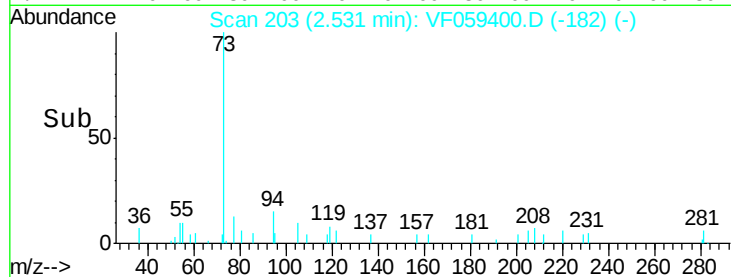
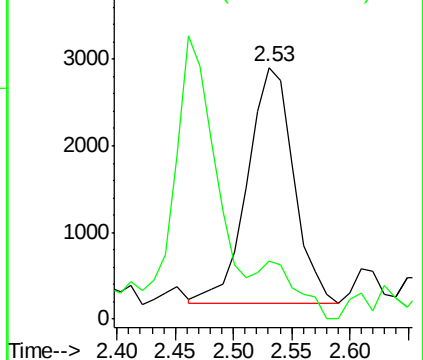
73 100

57 22.9 12.3 18.5#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.26 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Tgt Ion: 84 Resp: 3460

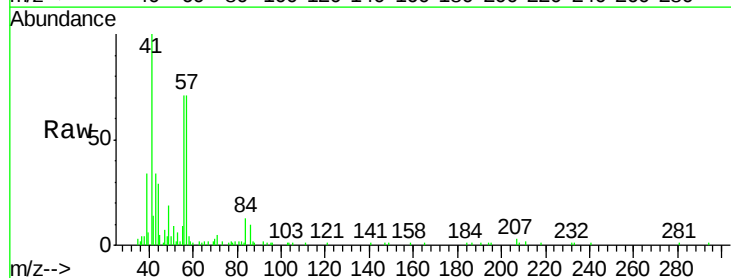
Ion Ratio Lower Upper

84 100

49 145.4 126.5 189.7

51 67.8 42.9 64.3#

86 80.9 48.6 73.0#

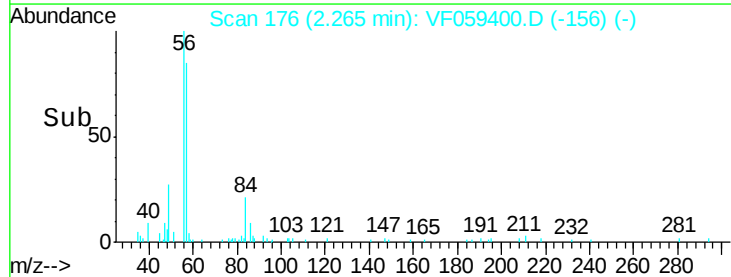
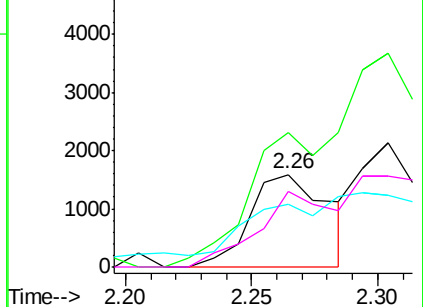


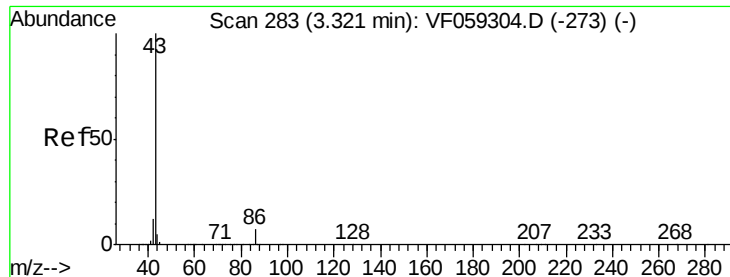
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

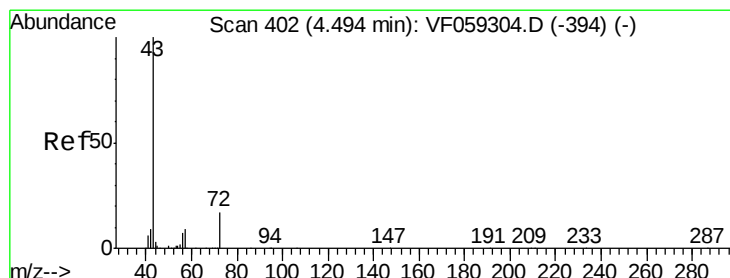
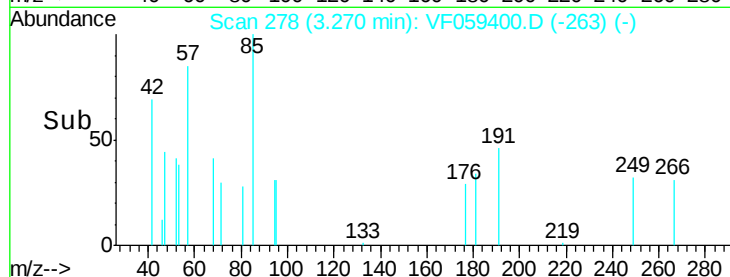
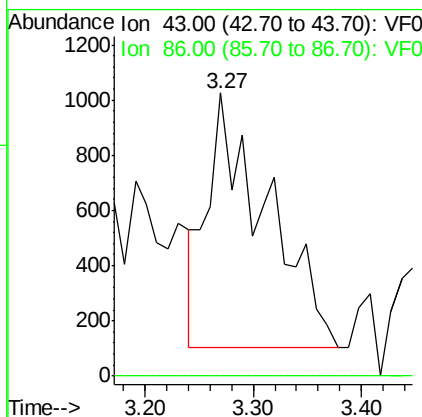
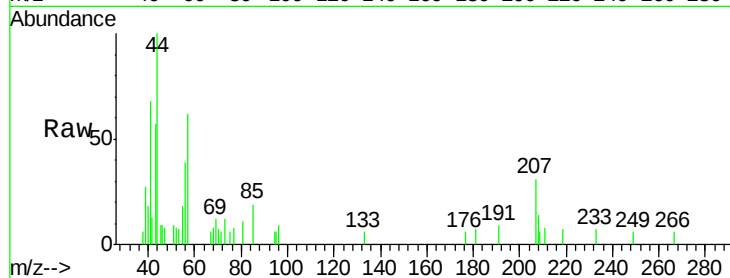




#23
 Vinyl Acetate
 Concen: 1.20 ug/l
 RT: 3.27 min Scan# 278
 Delta R.T. -0.05 min
 Lab File: VF059400.D
 Acq: 2 Jul 2018 21:19

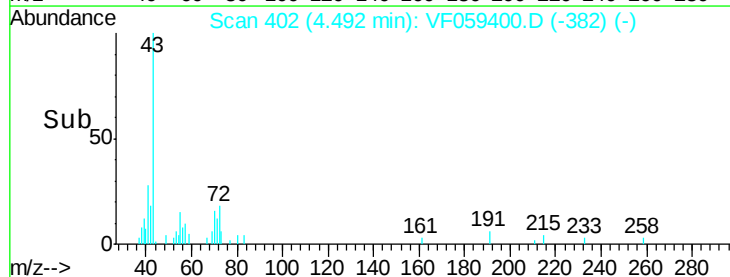
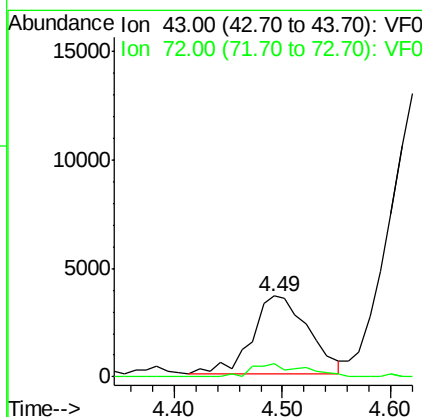
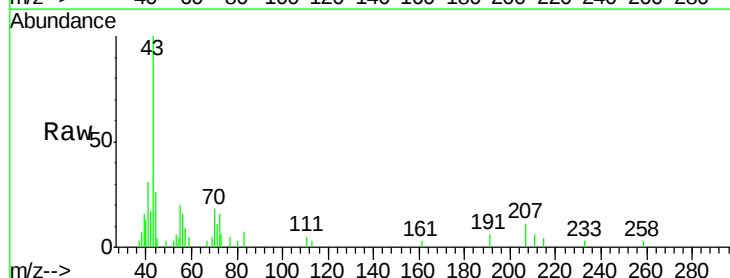
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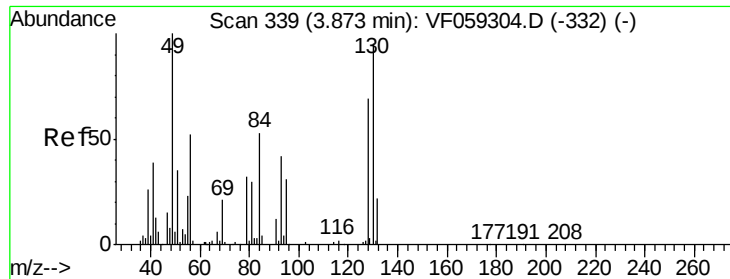
Tot Ion: 43 Resp: 3503
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.8 8.6#



#25
 2-Butanone
 Concen: 15.09 ug/l
 RT: 4.49 min Scan# 402
 Delta R.T. -0.00 min
 Lab File: VF059400.D
 Acq: 2 Jul 2018 21:19

Tgt Ion: 43 Resp: 12932
 Ion Ratio Lower Upper
 43 100
 72 16.2 14.4 21.6

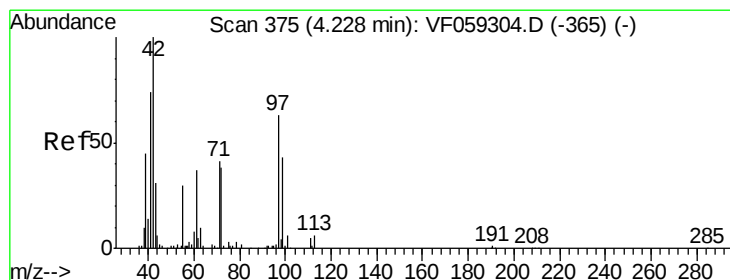
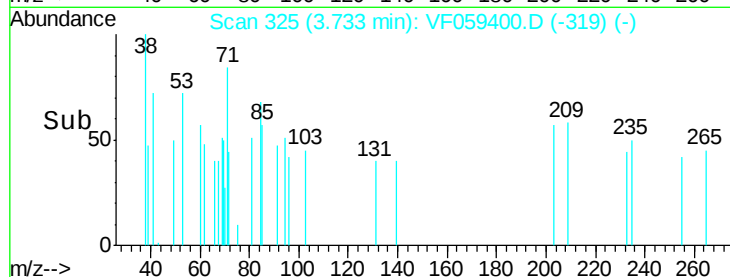
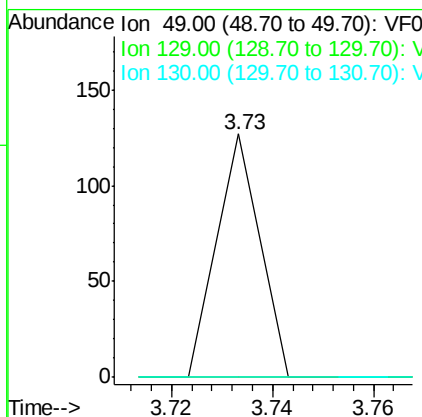
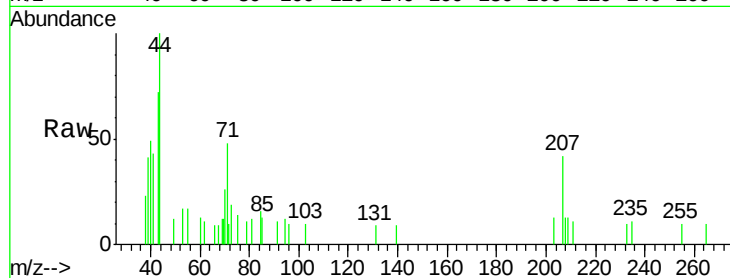




#28
Bromochloromethane
Concen: Below Cal
RT: 3.73 min Scan# 325
Delta R.T. -0.14 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

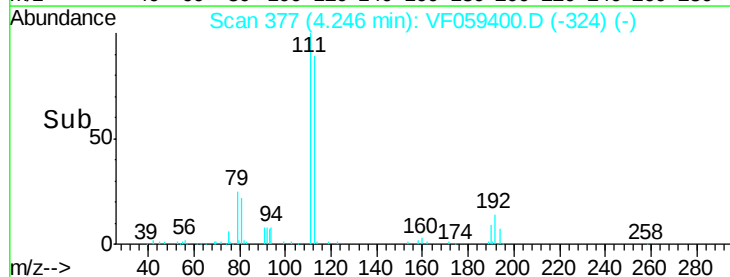
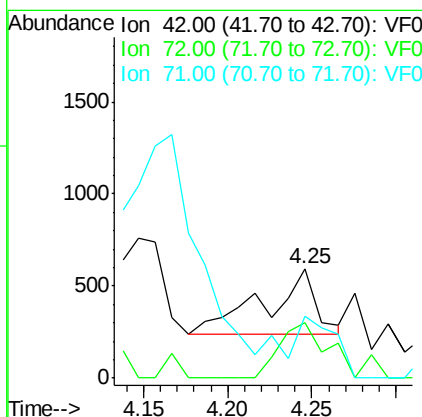
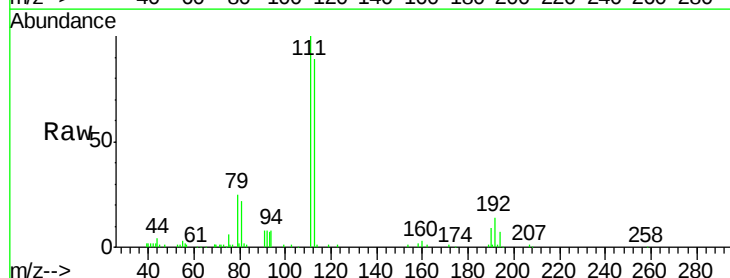
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MSVOA_F
ClientSampleId :
CF-6(2.0)RE

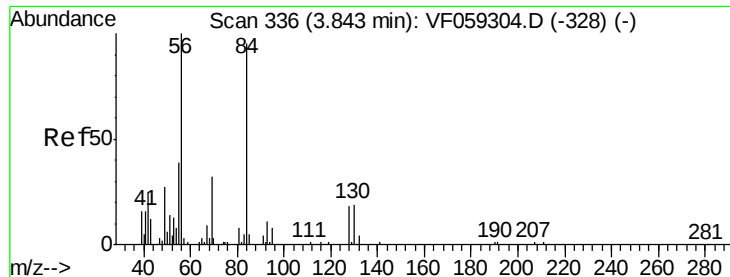
Tot Ion: 49 Resp: 75
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion: 42 Resp: 757
Ion Ratio Lower Upper
42 100
72 88.2 30.5 45.7#
71 0.0 32.5 48.7#

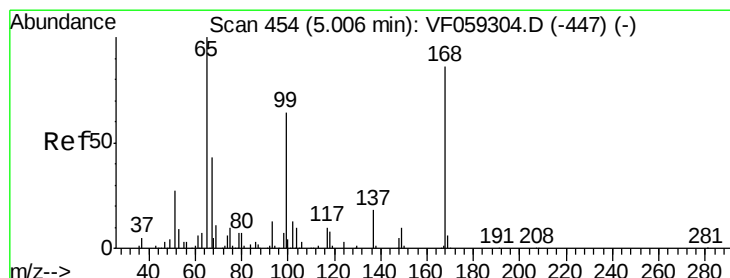
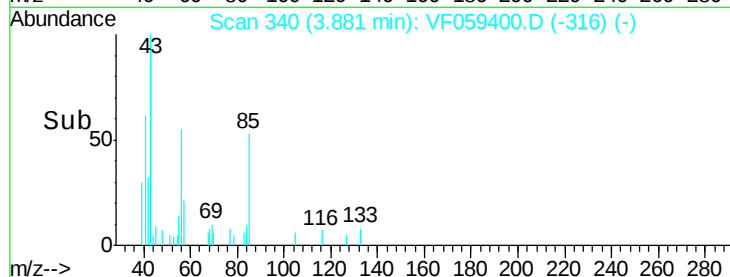
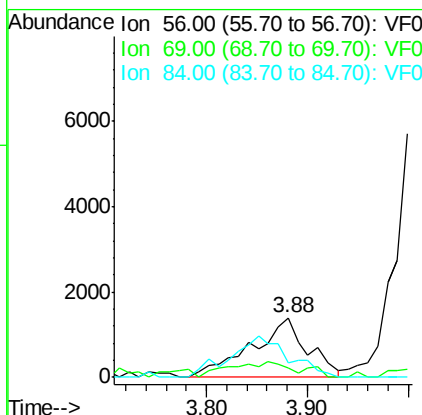
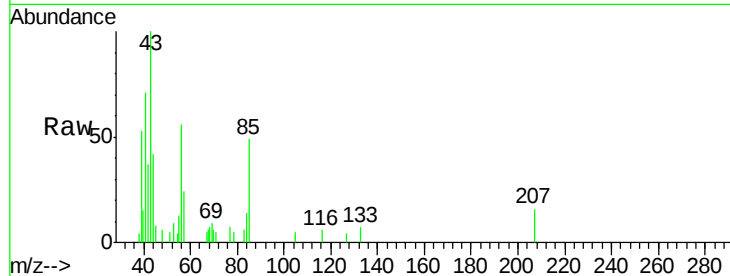




#31
Cvclohexane
Concen: 2.87 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.04 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

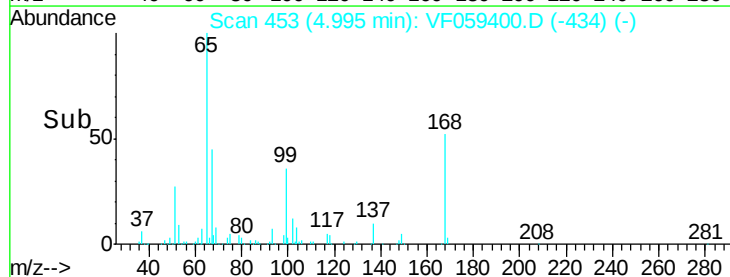
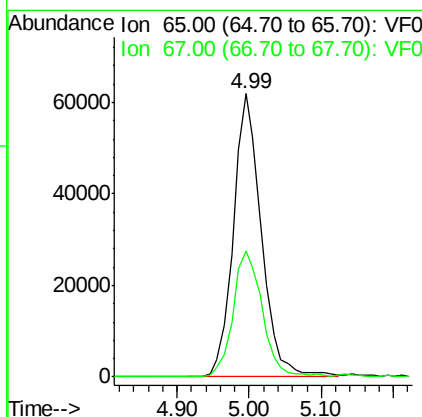
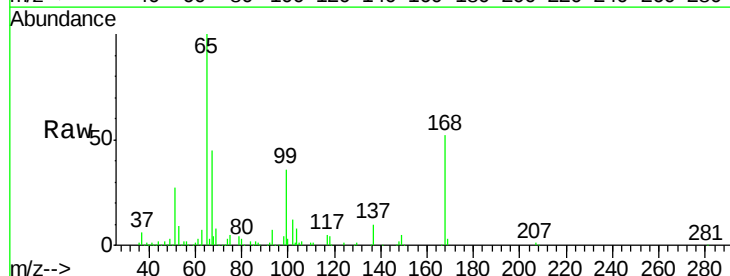
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)RE

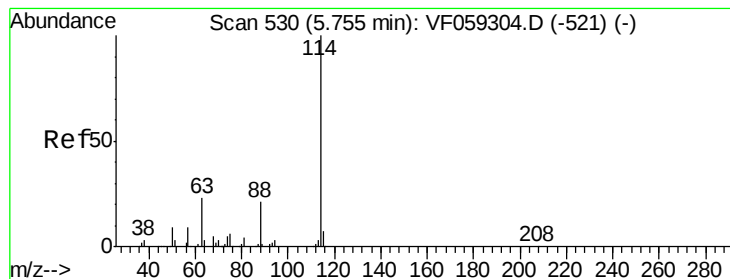
Tot Ion: 56 Resp: 5349
Ion Ratio Lower Upper
56 100
69 15.6 25.8 38.8#
84 24.7 75.6 113.4#



#33
1,2-Dichloroethane-d4
Concen: 69.21 ug/l
RT: 4.99 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion: 65 Resp: 167400
Ion Ratio Lower Upper
65 100
67 44.7 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)RE

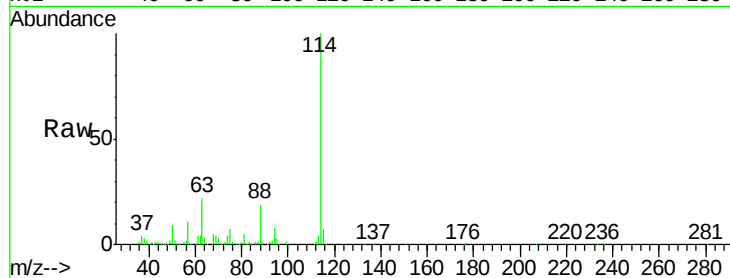
Tot Ion:114 Resp: 304018

Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.8

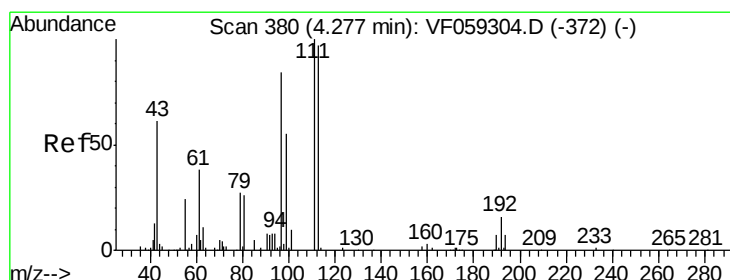
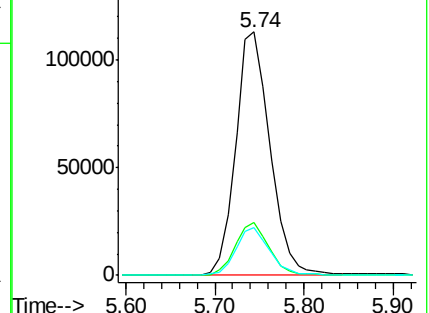
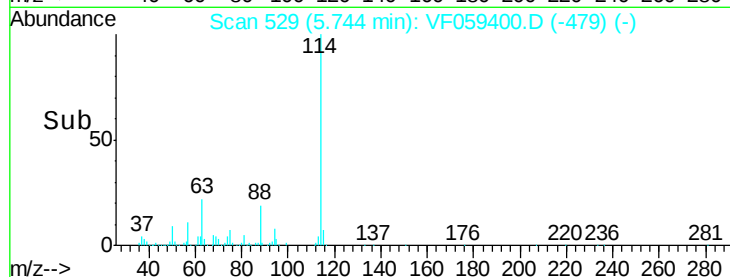
88 19.4 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 67.51 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

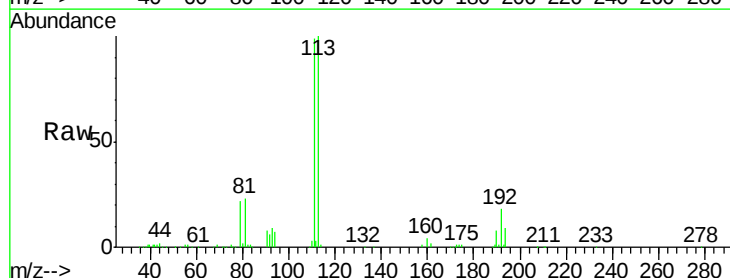
Tgt Ion:113 Resp: 149973

Ion Ratio Lower Upper

113 100

111 99.0 82.1 123.1

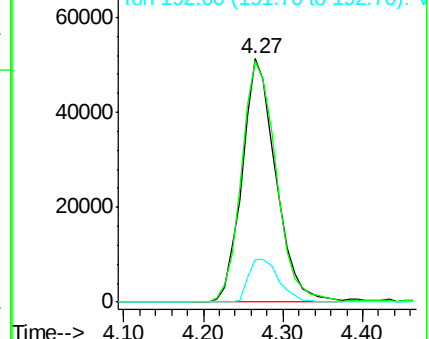
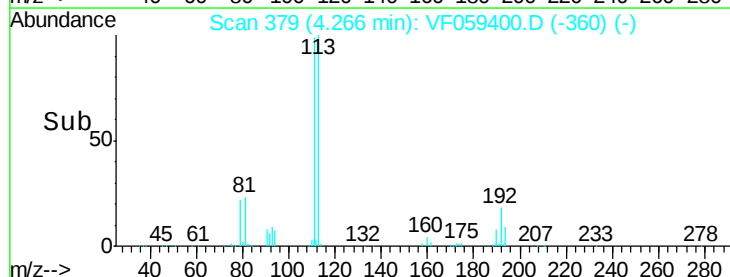
192 17.5 13.0 19.6

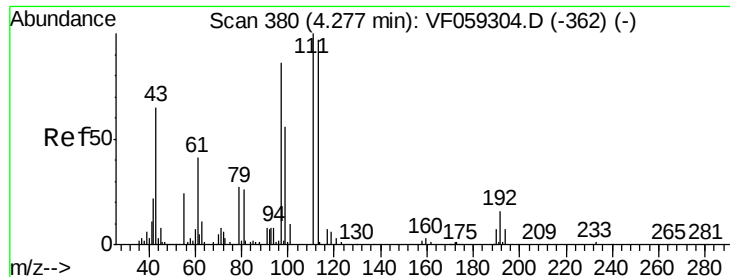


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

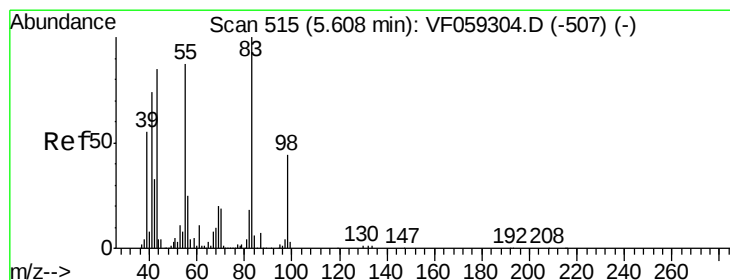
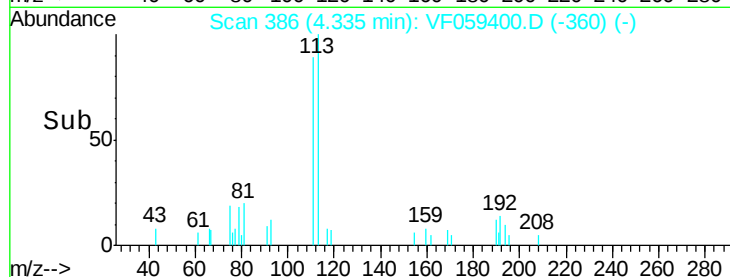
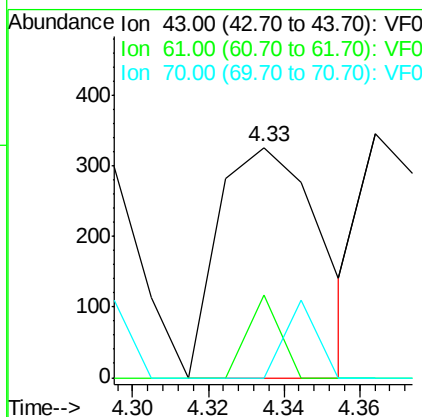
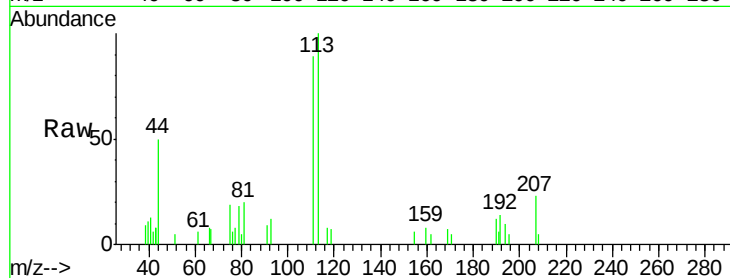




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 386
Delta R.T. 0.06 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

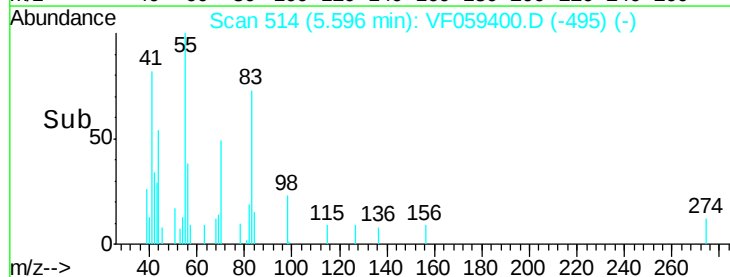
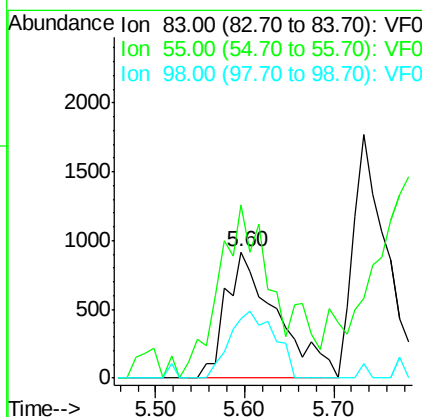
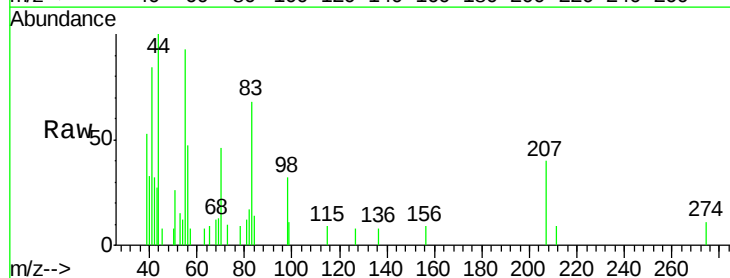
Instrument :
MSVOA_F
ClientSampled :
CF-6(2.0)RE

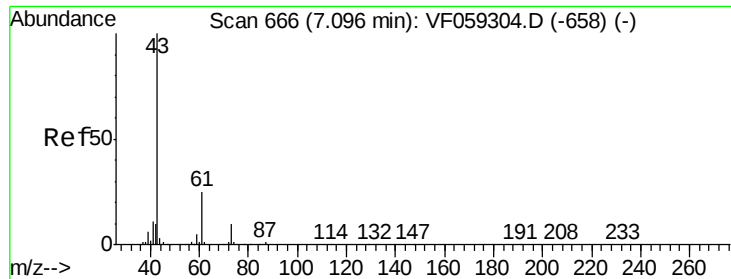
Tot Ion: 43 Resp: 606
Ion Ratio Lower Upper
43 100
61 35.9 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 1.55 ug/l
RT: 5.60 min Scan# 514
Delta R.T. -0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion: 83 Resp: 3648
Ion Ratio Lower Upper
83 100
55 137.3 69.2 103.8#
98 46.8 35.0 52.6





#43

Isopropyl Acetate

Concen: 2.24 ug/l

RT: 6.99 min Scan# 655

Delta R.T. -0.11 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)RE

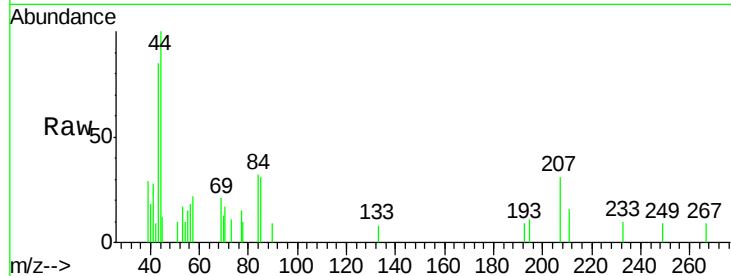
Tot Ion: 43 Resp: 4963

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

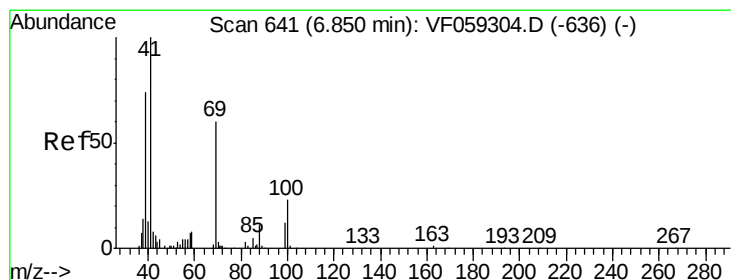
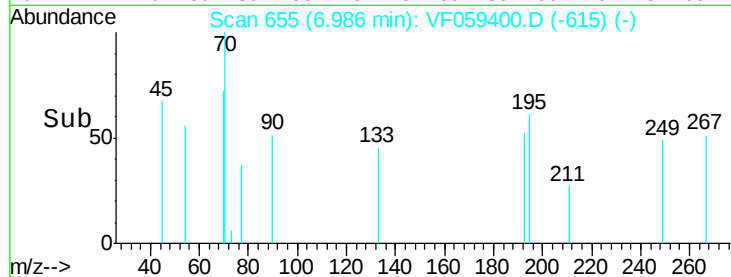
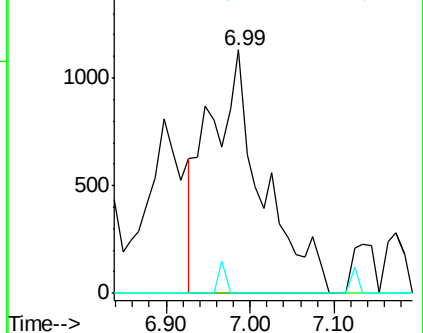
87 0.0 0.5 0.7#



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: 6.83 min Scan# 639

Delta R.T. -0.02 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

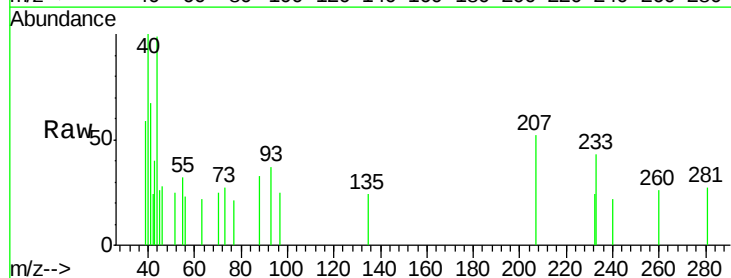
Tgt Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 120.2 50.6 75.8#

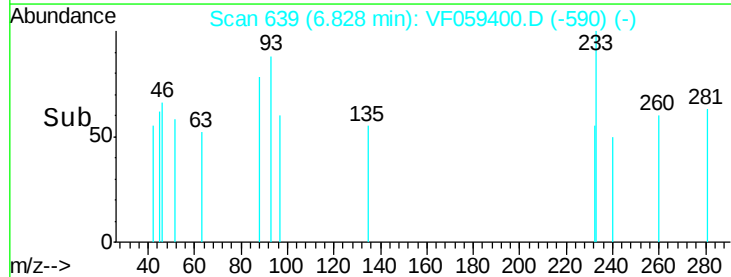
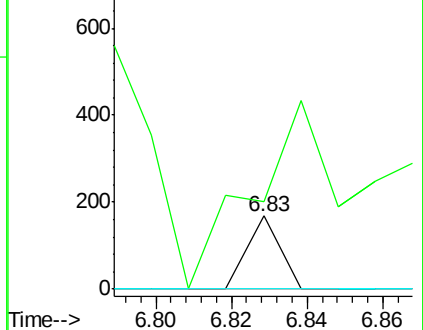
58 0.0 46.6 69.8#

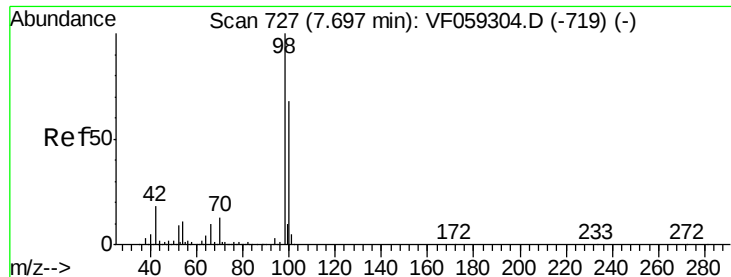


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 66.37 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

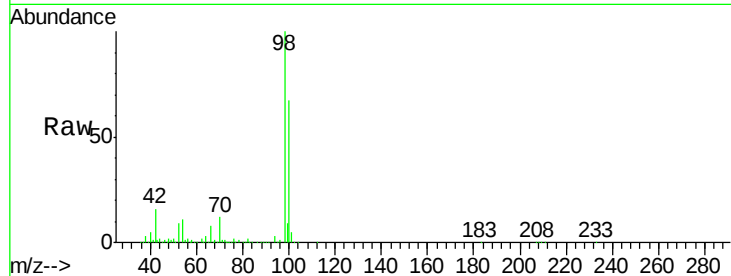
CF-6(2.0)RE

Tot Ion: 98 Resp: 365011

Ion Ratio Lower Upper

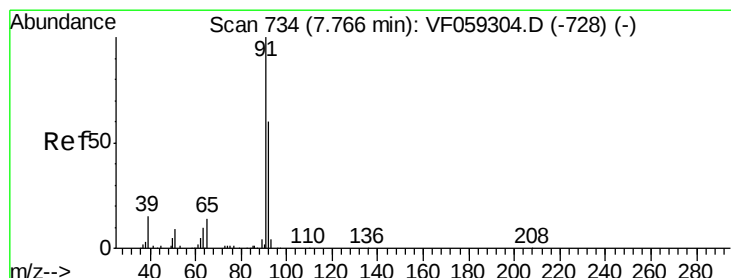
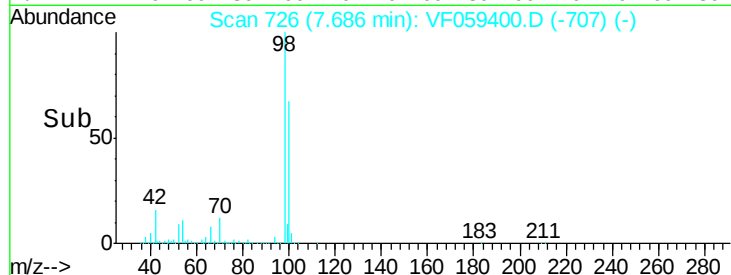
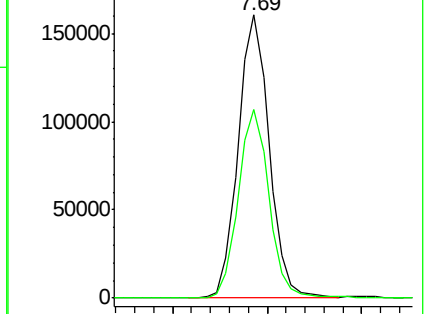
98 100

100 66.5 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 4.45 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059400.D

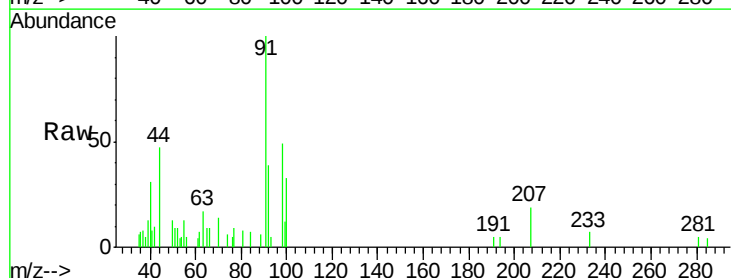
Acq: 2 Jul 2018 21:19

Tgt Ion: 63 Resp: 707

Ion Ratio Lower Upper

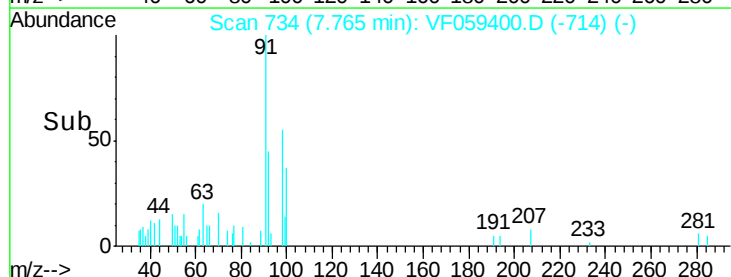
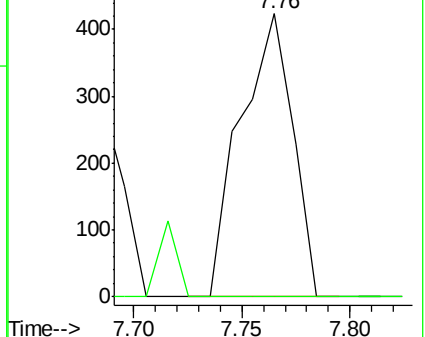
63 100

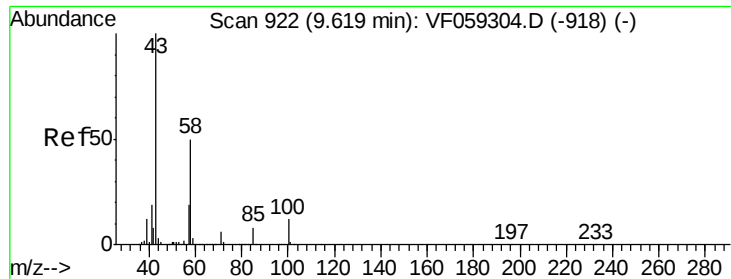
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: Below Cal

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampled :

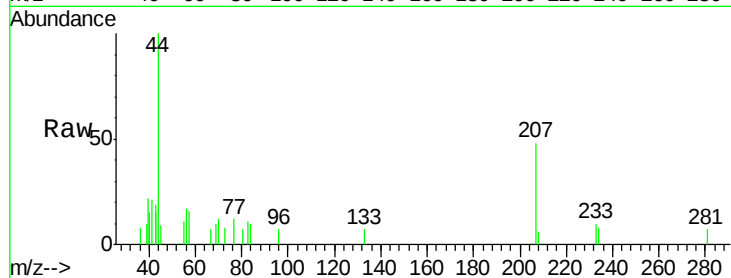
CF-6(2.0)RE

Tot Ion: 43 Resp: 2088

Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.64

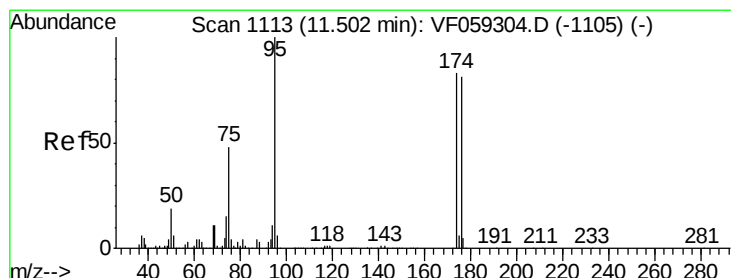
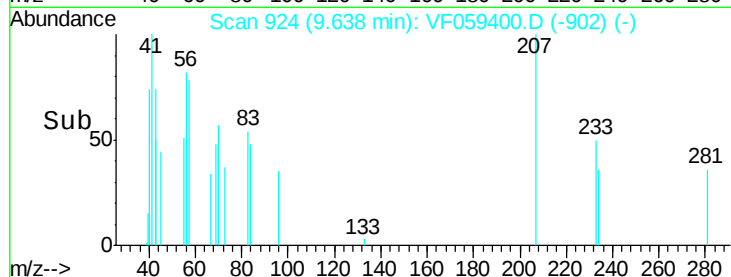
400

200

0

9.55 9.60 9.65 9.70

Time-->



#62

4-Bromofluorobenzene

Concen: 60.08 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

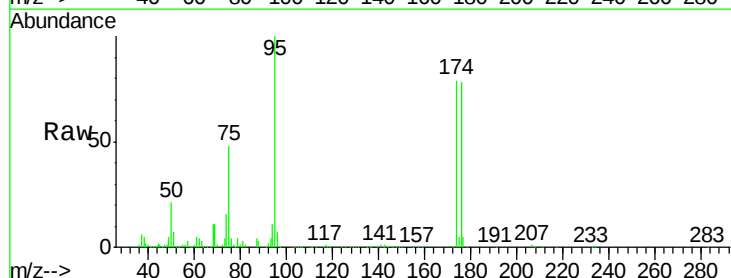
Tgt Ion: 95 Resp: 186392

Ion Ratio Lower Upper

95 100

174 79.0 0.0 165.2

176 78.2 0.0 161.0



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

150000

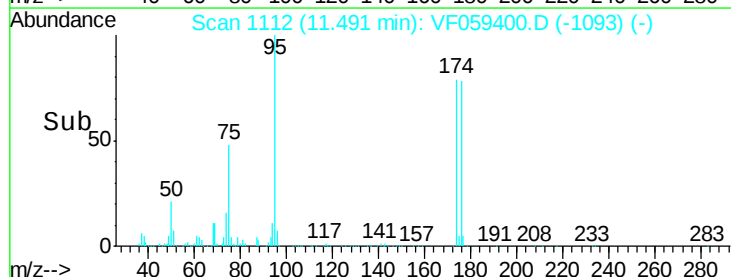
100000

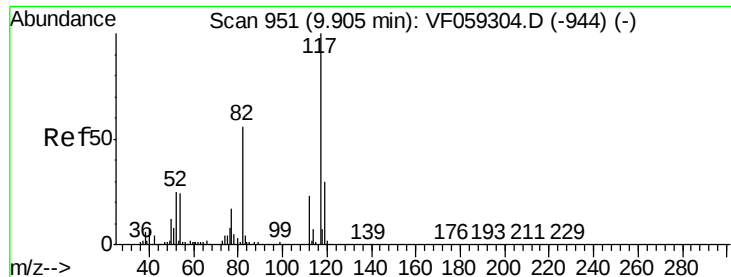
50000

0

11.40 11.50 11.60

Time-->

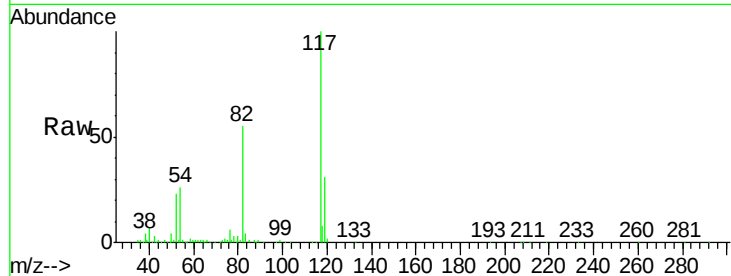




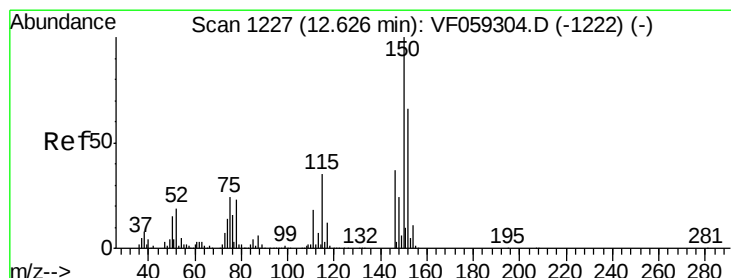
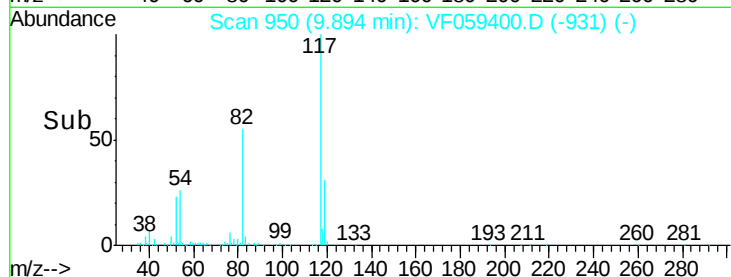
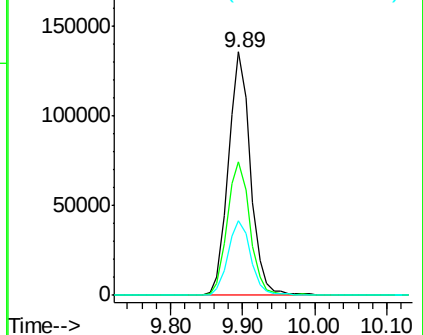
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	66.8
119	30.5	24.1	36.1

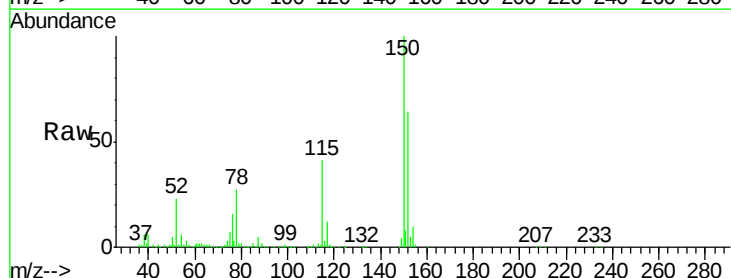


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

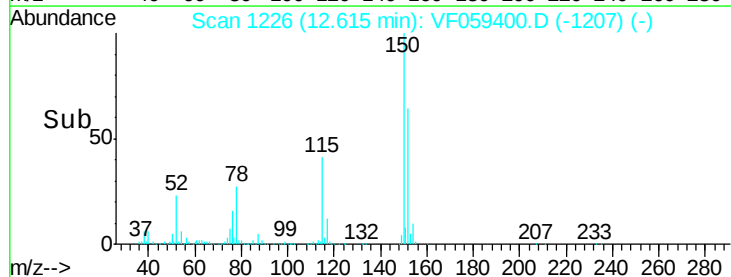
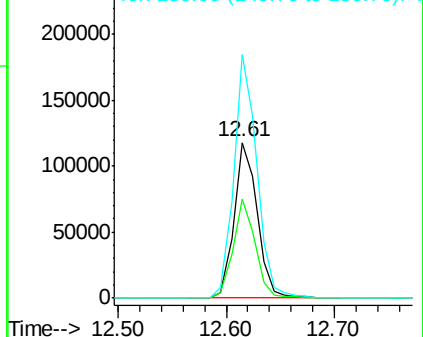


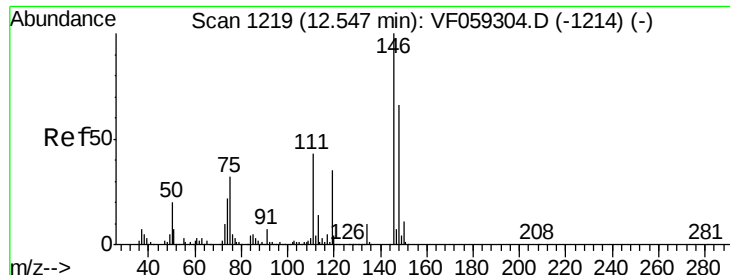
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059400.D
Acq: 2 Jul 2018 21:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.6	27.1	81.3
150	156.6	0.0	305.2



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





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059400.D

Acq: 2 Jul 2018 21:19

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)RE

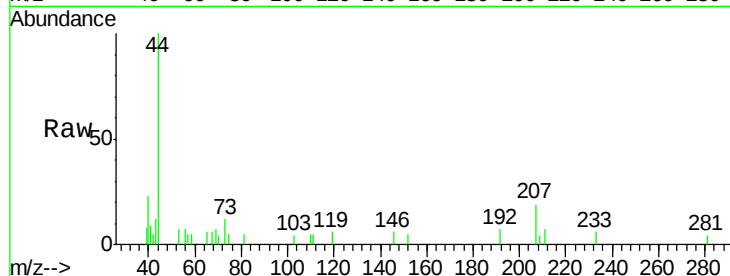
Tot Ion:146 Resp: 144

Ion Ratio Lower Upper

146 100

111 98.5 21.4 64.2#

148 0.0 32.8 98.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

