

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
 Data File : VF059416.D
 Acq On : 3 Jul 2018 17:07
 Operator : VA/AP
 Sample : J3245-19RE
 Misc : 6.55g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-062918-BRE

Quant Time: Jul 04 00:12:42 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	244967	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.73	114	365654	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	332518	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	196099	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.98	65	208685	65.94	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	131.88%	
35) Dibromofluoromethane	4.26	113	179048	67.02	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	134.04%	
50) Toluene-d8	7.68	98	384903	58.19	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	116.38%	
62) 4-Bromofluorobenzene	11.49	95	208470	55.87	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	111.74%	

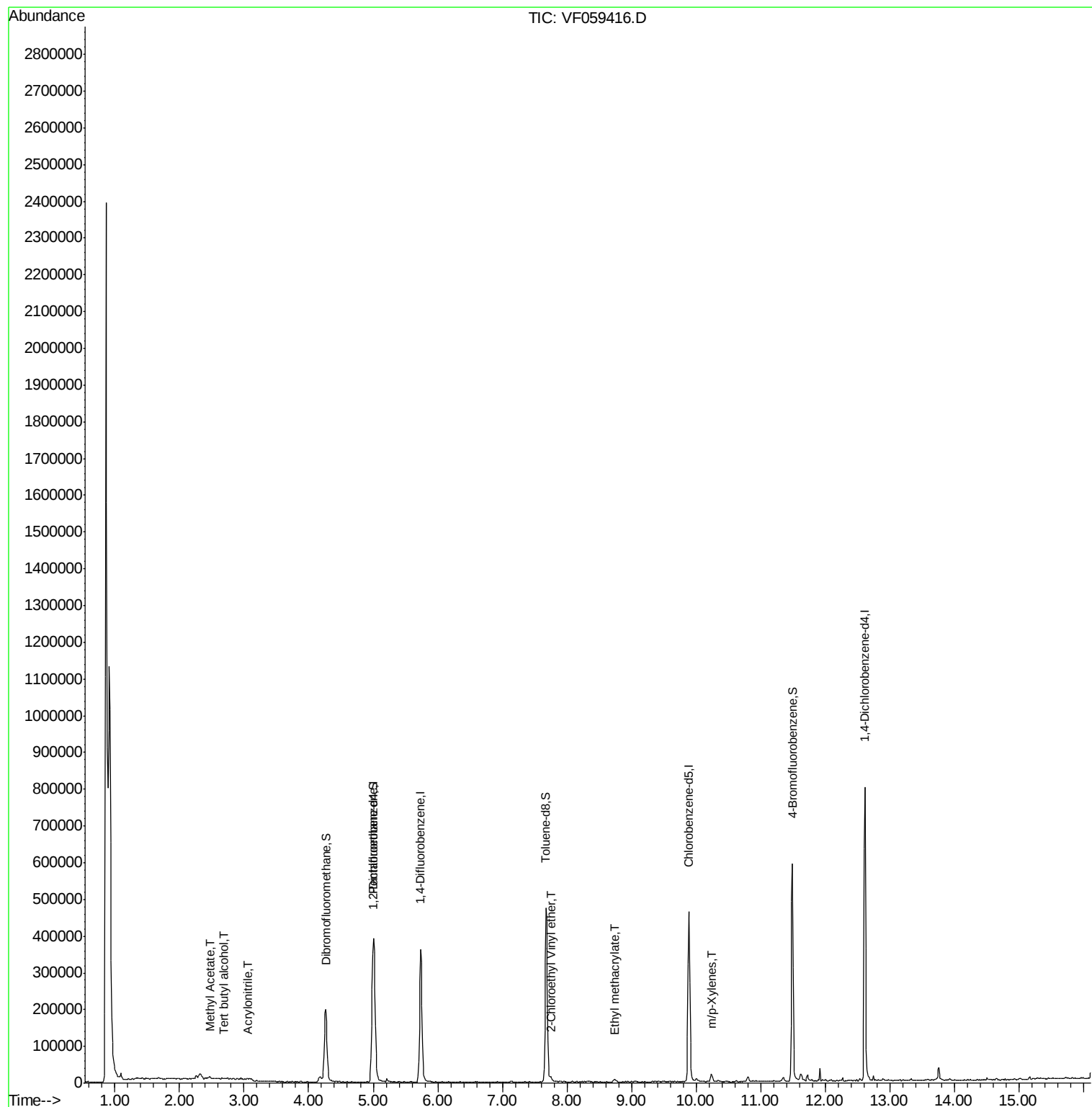
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.25	94	162	Below Cal		98
11) Tert butyl alcohol	2.68	59	1151	5.463	ug/l	95
13) Acrolein	2.08	56	172	Below Cal		100
15) Acrylonitrile	3.05	53	457	1.232	ug/l #	70
16) Acetone	2.47	43	1748	Below Cal		99
18) Methyl Acetate	2.47	43	3562	1.361	ug/l	99
20) Methylene Chloride	2.26	84	2961	Below Cal	#	84
25) 2-Butanone	4.49	43	510	Below Cal	#	59
28) Bromochloromethane	3.87	49	60	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	1070	Below Cal	#	60
37) Ethyl Acetate	4.30	43	316	Below Cal	#	26
49) 1,4-Dioxane	6.80	88	60	Below Cal	#	1
56) Ethyl methacrylate	8.74	69	3079	1.208	ug/l #	90
58) 2-Chloroethyl Vinyl ether	7.75	63	1124	5.880	ug/l	100
59) 2-Hexanone	9.61	43	522	Below Cal		90
68) m/p-Xylenes	10.23	106	7597	2.042	ug/l	94
87) 1,3-Dichlorobenzene	12.54	146	366	Below Cal	#	60

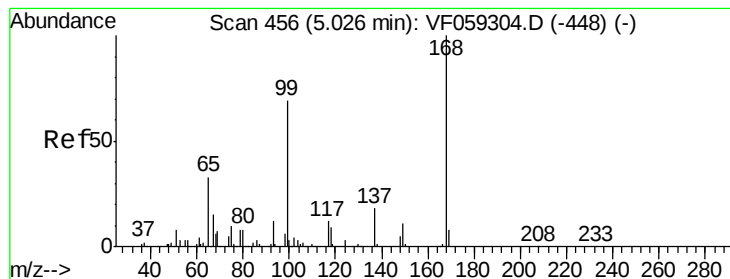
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

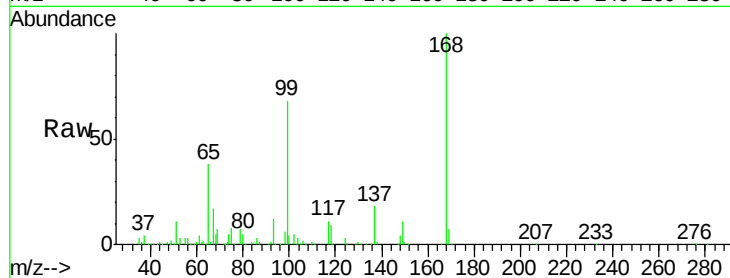
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-BRE

Tgt Ion: 168 Resp: 244967

Ion Ratio Lower Upper

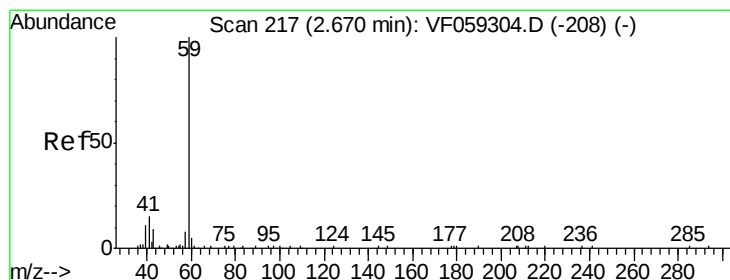
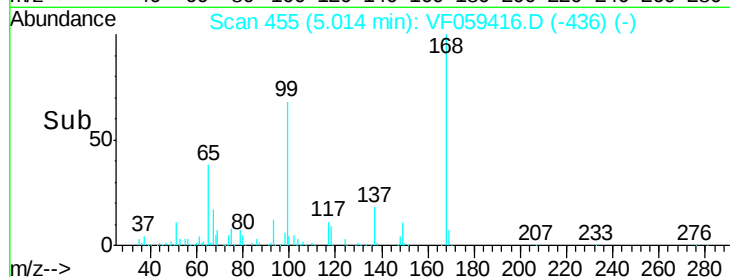
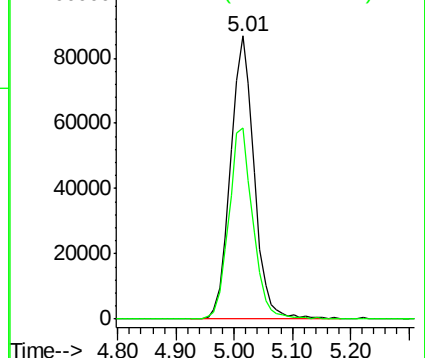
168 100

99 67.6 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 5.463 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059416.D

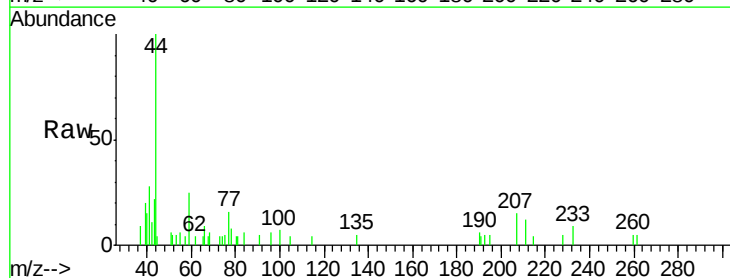
Acq: 3 Jul 2018 17:07

Tgt Ion: 59 Resp: 1151

Ion Ratio Lower Upper

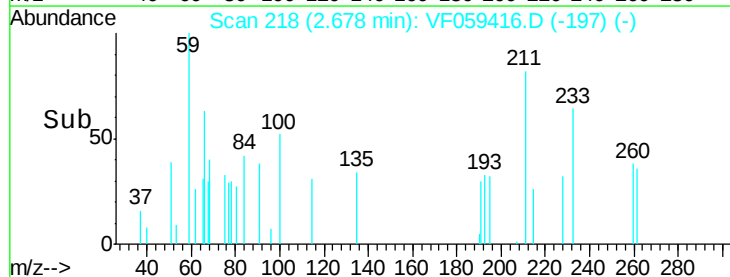
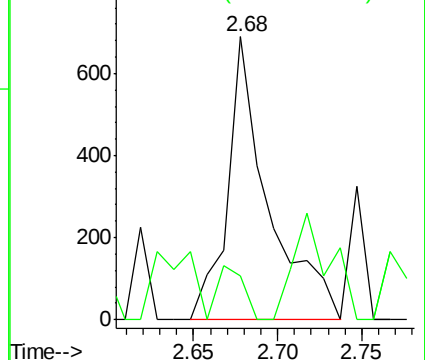
59 100

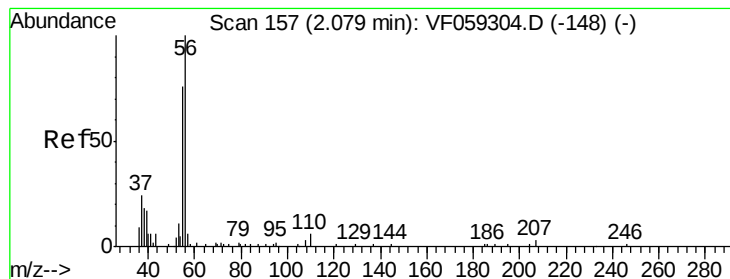
57 15.7 11.0 16.4



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.08 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

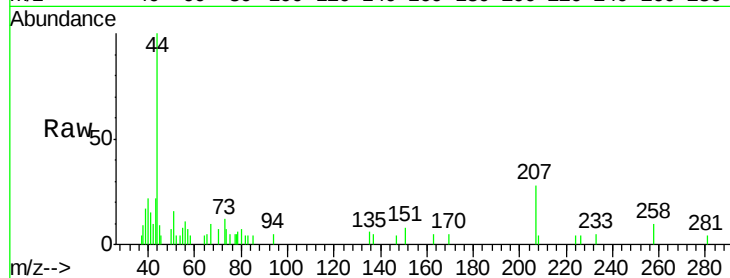
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-BRE

Tgt Ion: 56 Resp: 172

Ion Ratio Lower Upper

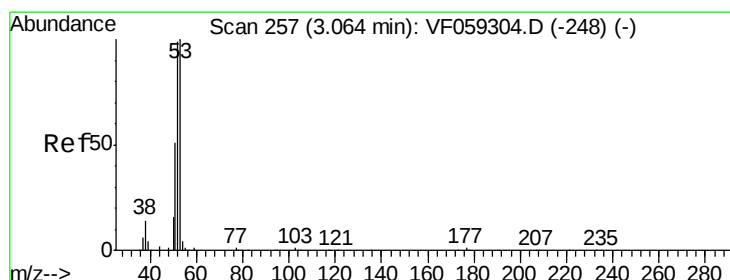
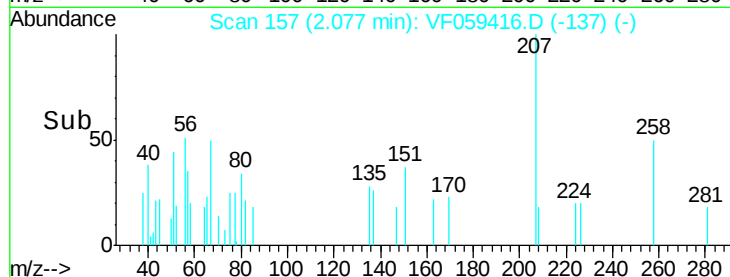
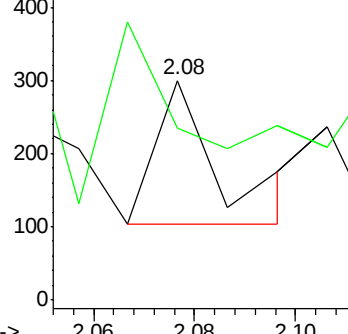
56 100

55 78.3 62.4 93.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.232 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

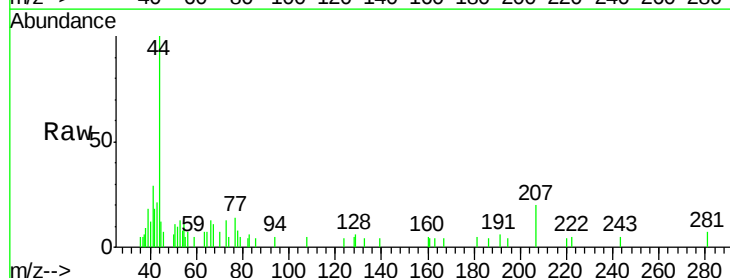
Tgt Ion: 53 Resp: 457

Ion Ratio Lower Upper

53 100

52 79.8 79.2 118.8

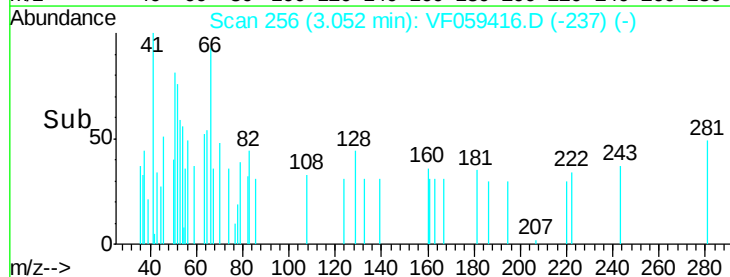
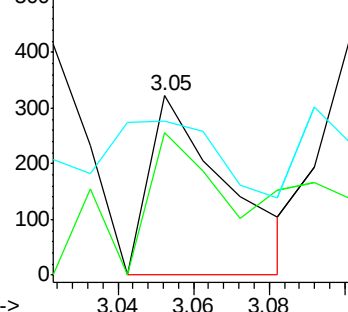
51 86.0 40.9 61.3#

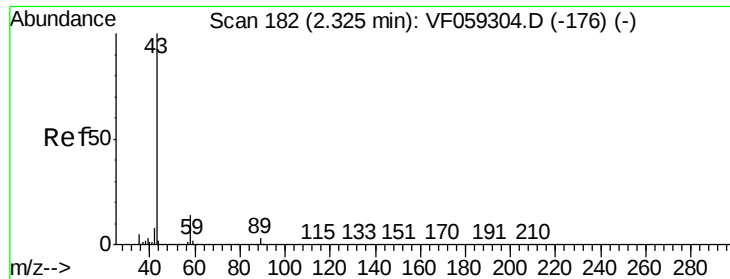


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

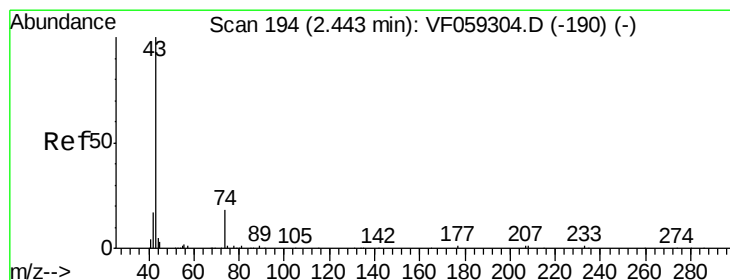
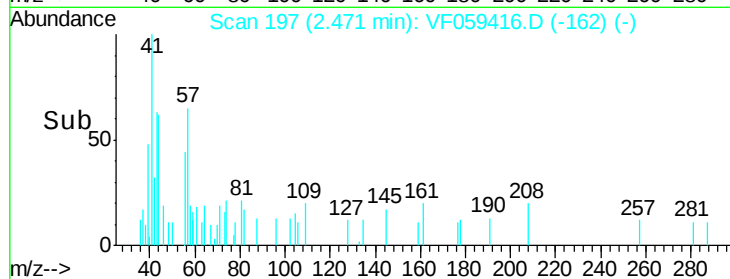
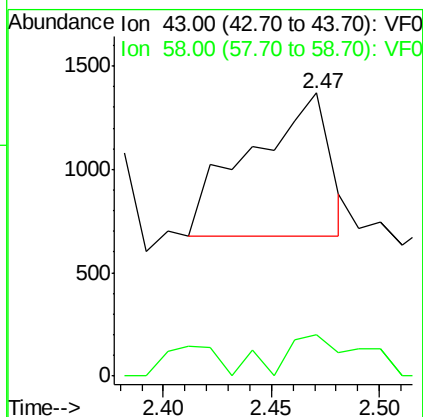
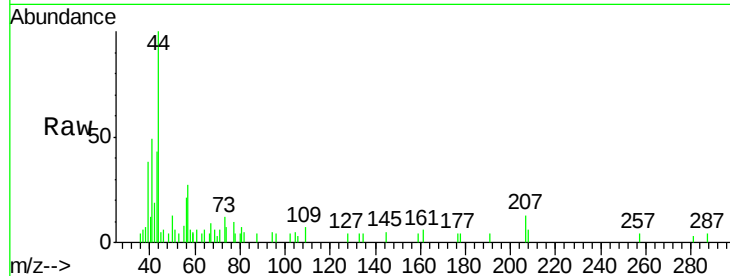




#16
Acetone
Concen: Below Cal
RT: 2.47 min Scan# 197
Delta R.T. 0.15 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

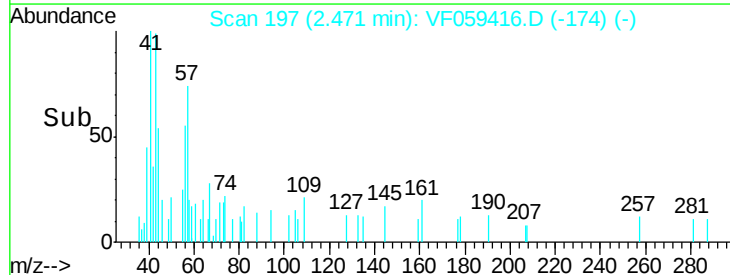
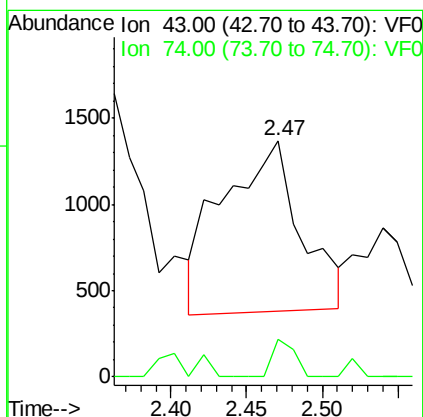
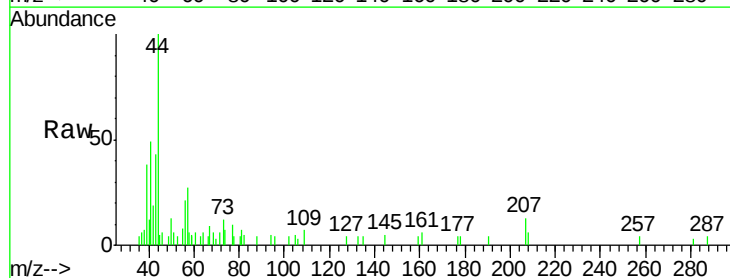
Instrument :
MSVOA_F
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CL-01-062918-BRE

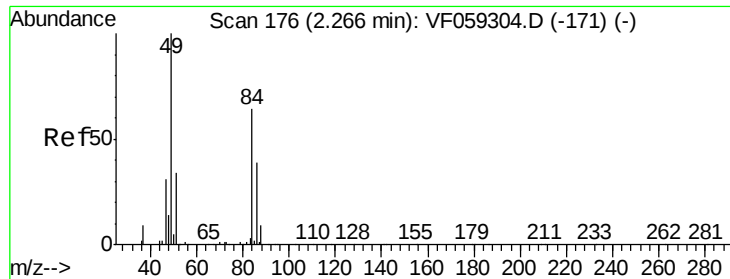
Tgt Ion: 43 Resp: 1748
Ion Ratio Lower Upper
43 100
58 14.5 11.4 17.0



#18
Methyl Acetate
Concen: 1.361 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

Tgt Ion: 43 Resp: 3562
Ion Ratio Lower Upper
43 100
74 16.0 13.3 19.9

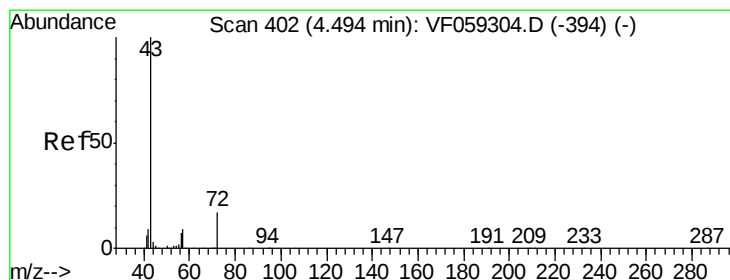
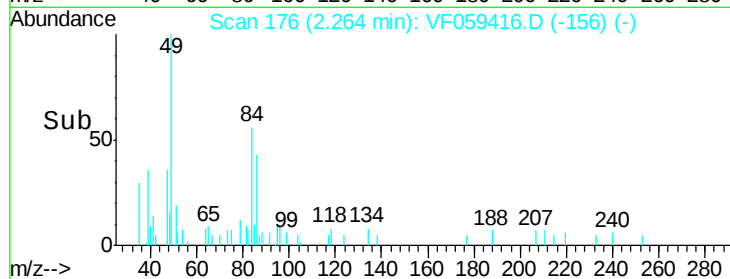
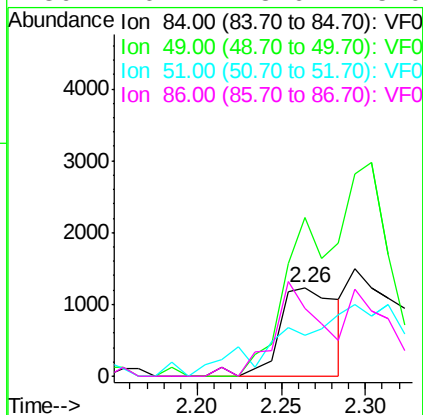
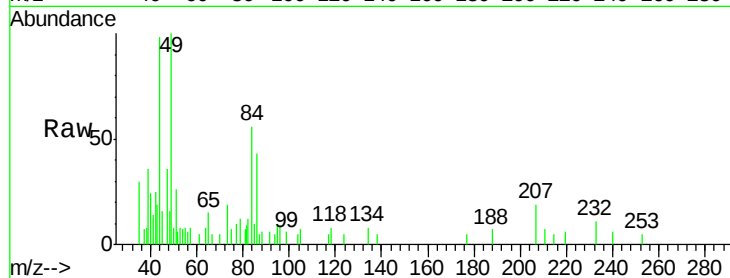




#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

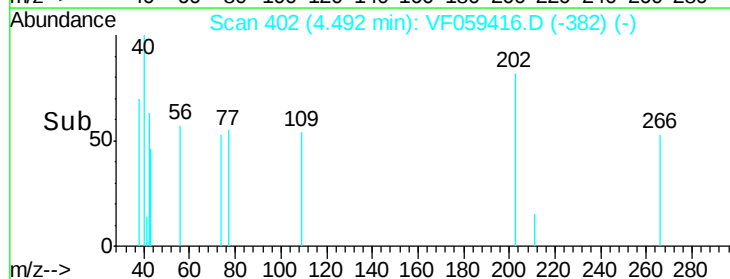
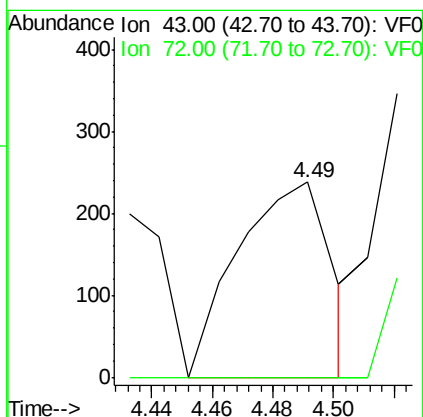
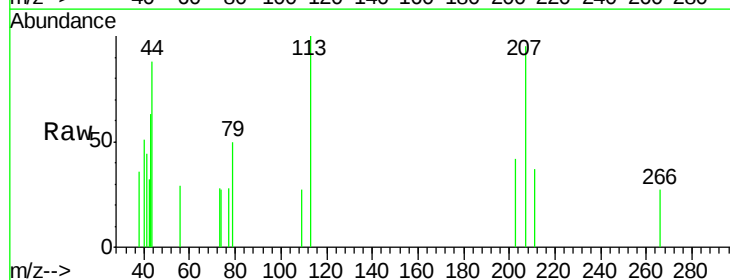
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-BRE

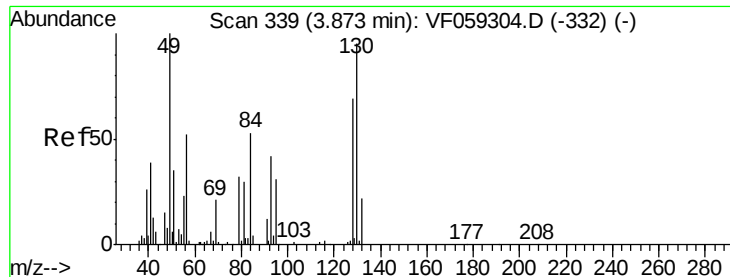
Tgt Ion:	84	Resp:	2961
Ion	Ratio	Lower	Upper
84	100		
49	178.8	126.5	189.7
51	46.3	42.9	64.3
86	76.1	48.6	73.0#



#25
2-Butanone
Concen: Below Cal
RT: 4.49 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

Tgt Ion:	43	Resp:	510
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-BRE

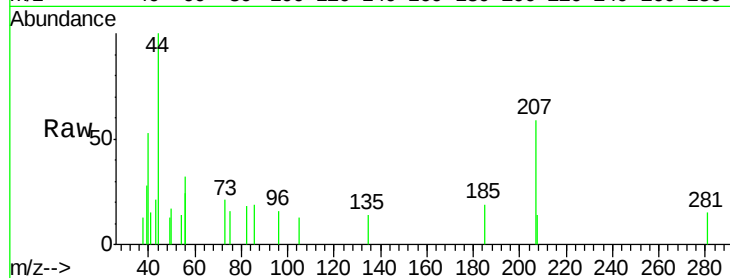
Tgt Ion: 49 Resp: 60

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

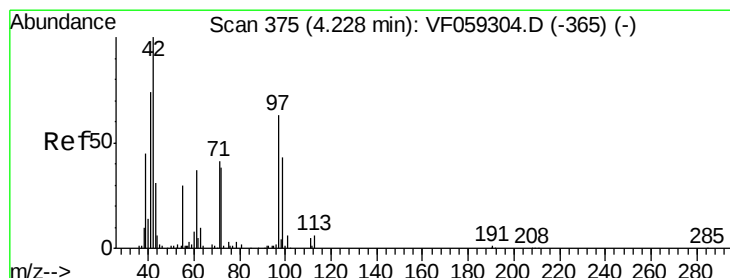
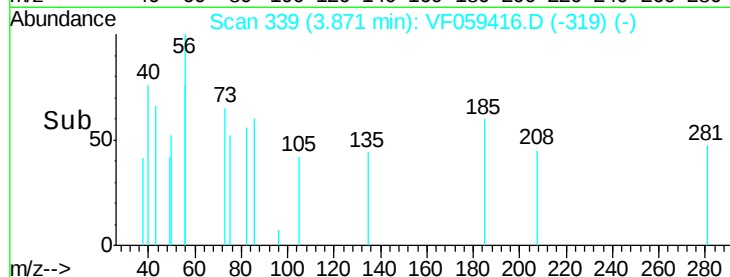
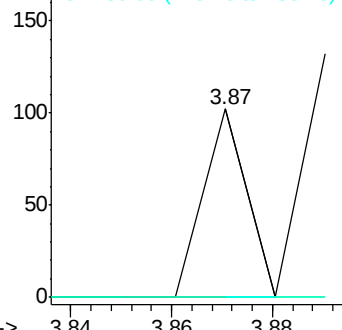
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

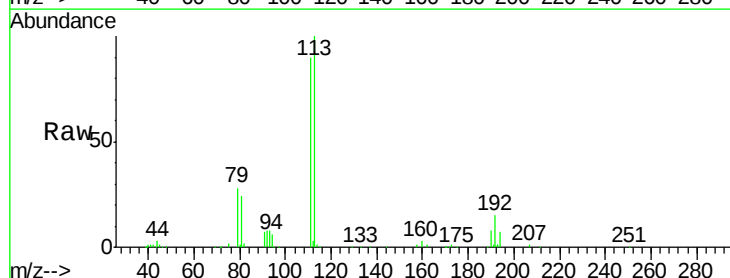
Tgt Ion: 42 Resp: 1070

Ion Ratio Lower Upper

42 100

72 12.6 30.5 45.7#

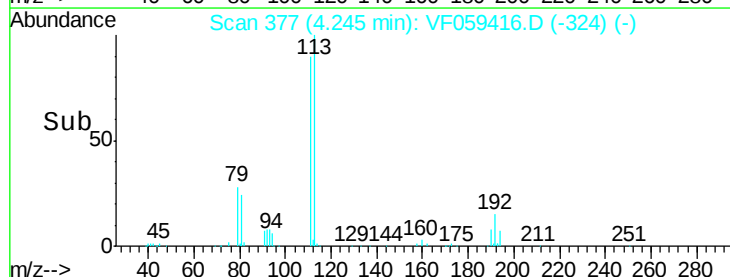
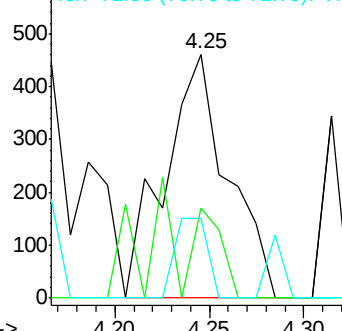
71 16.7 32.5 48.7#

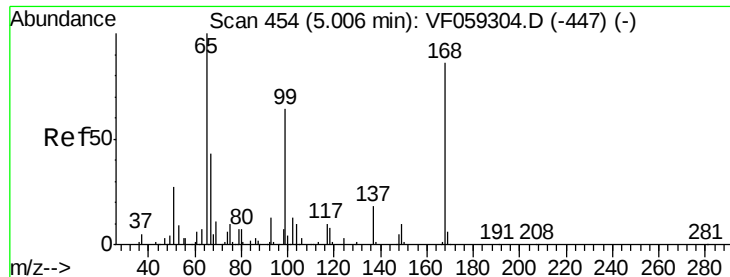


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 65.936 ug/l

RT: 4.98 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Instrument :

MSVOA_F

ClientSampleId :

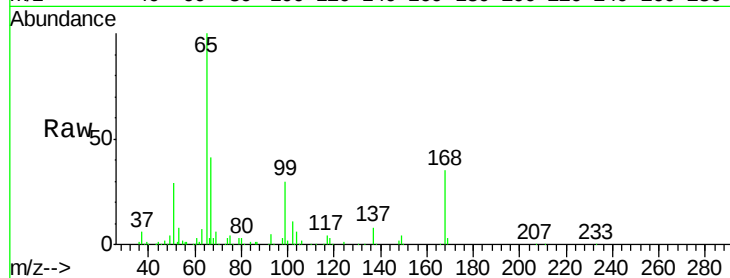
CL-01-062918-BRE

Tgt Ion: 65 Resp: 208685

Ion Ratio Lower Upper

65 100

67 40.9 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.98

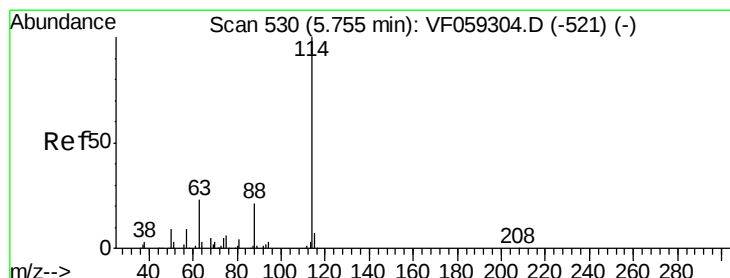
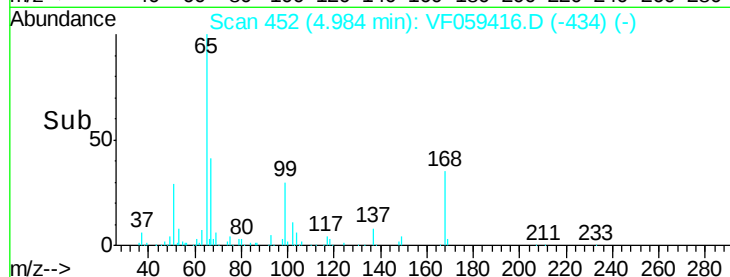
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

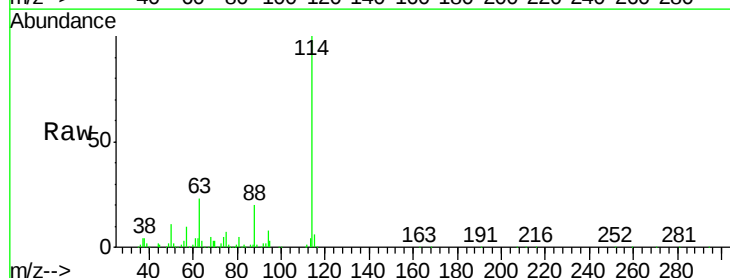
Tgt Ion: 114 Resp: 365654

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.8

88 19.9 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

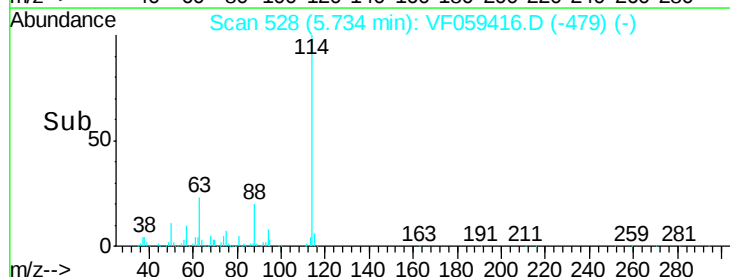
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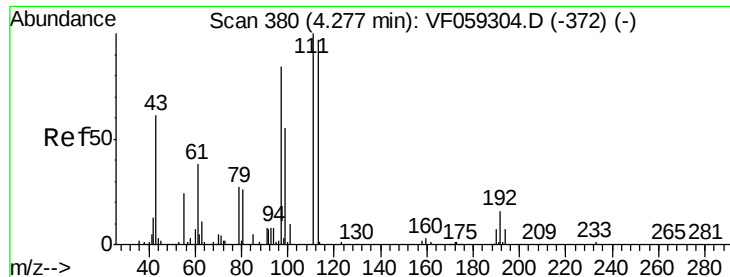
100000

50000

0

Time-->

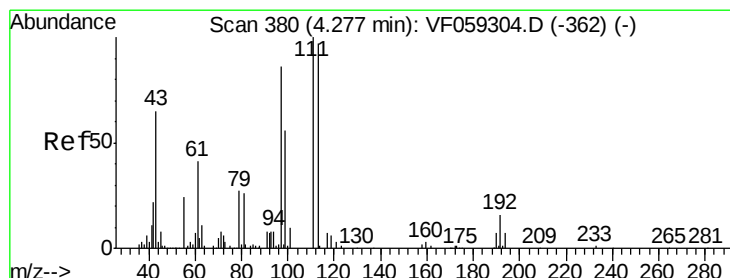
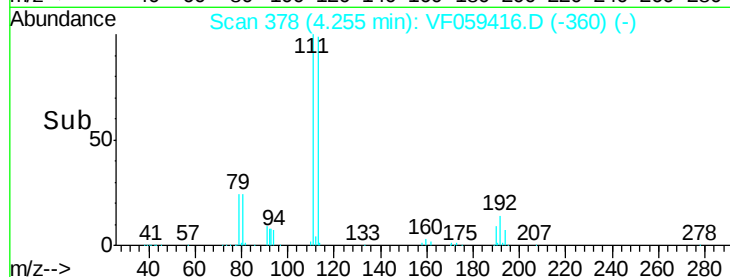
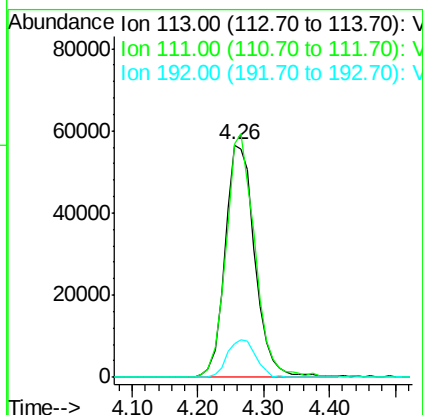
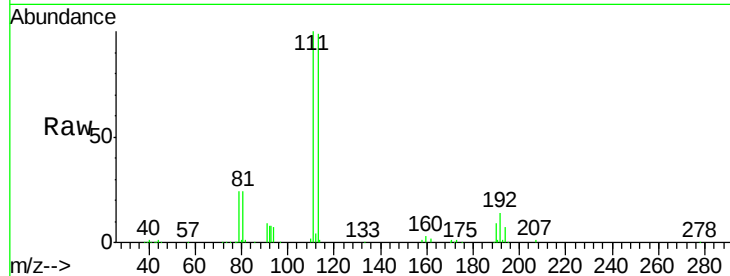




#35
 Dibromofluoromethane
 Concen: 67.016 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059416.D
 Acq: 3 Jul 2018 17:07

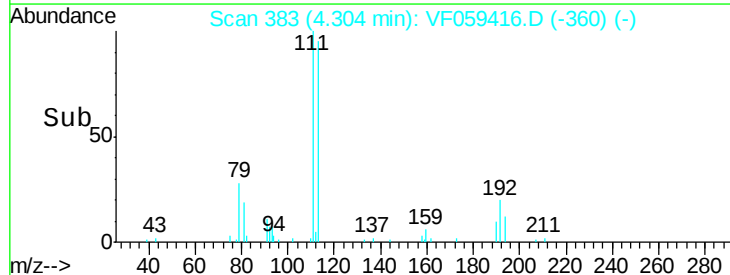
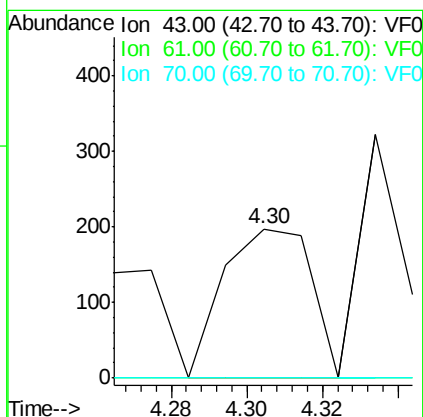
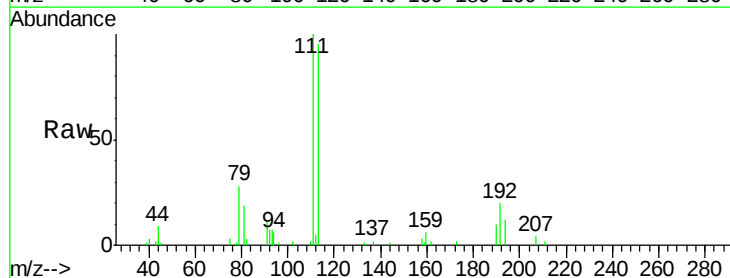
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 CL-01-062918-BRE

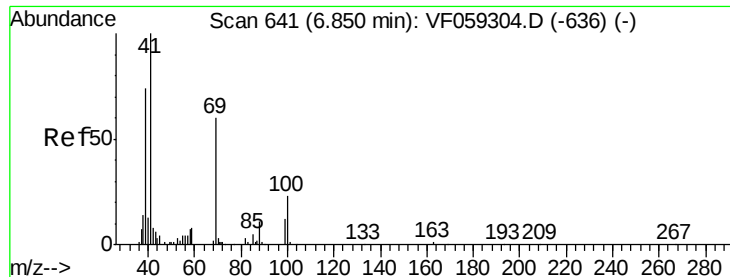
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.1	123.1
192	14.3	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 383
 Delta R.T. 0.03 min
 Lab File: VF059416.D
 Acq: 3 Jul 2018 17:07

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.80 min Scan# 636

Delta R.T. -0.05 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-BRE

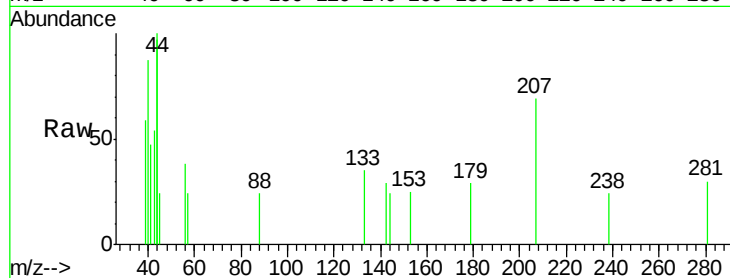
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 231.4 50.6 75.8#

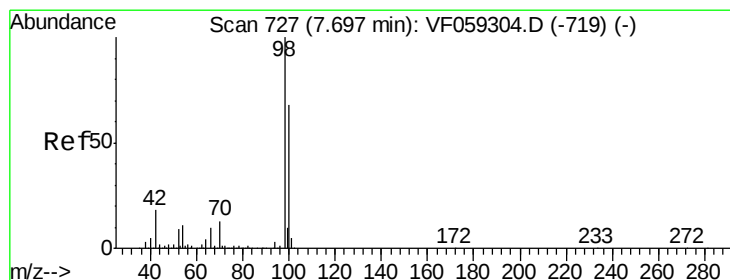
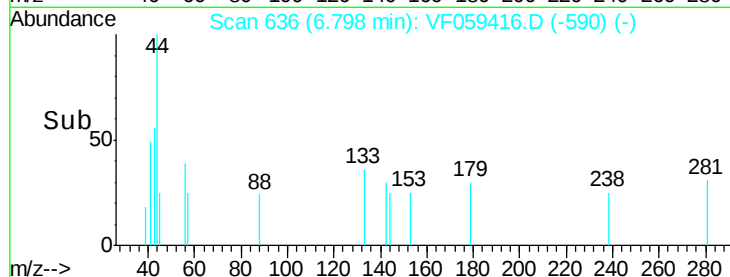
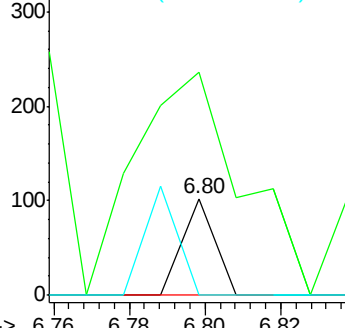
58 0.0 46.6 69.8#



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: 58.187 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059416.D

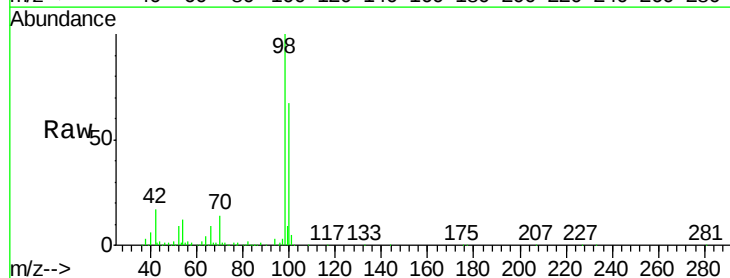
Acq: 3 Jul 2018 17:07

Tgt Ion: 98 Resp: 384903

Ion Ratio Lower Upper

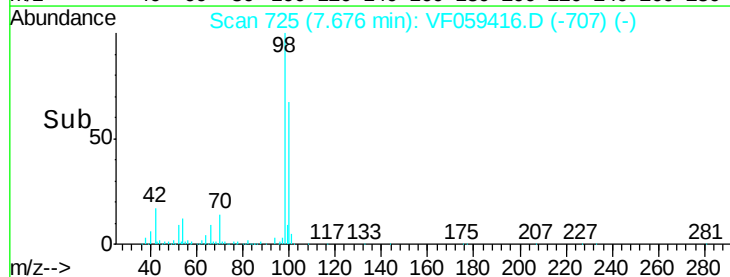
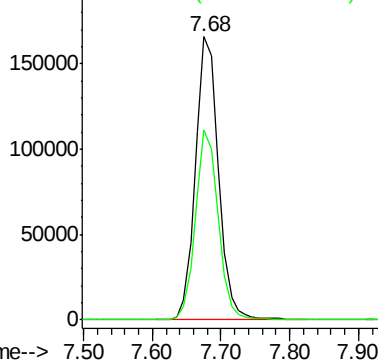
98 100

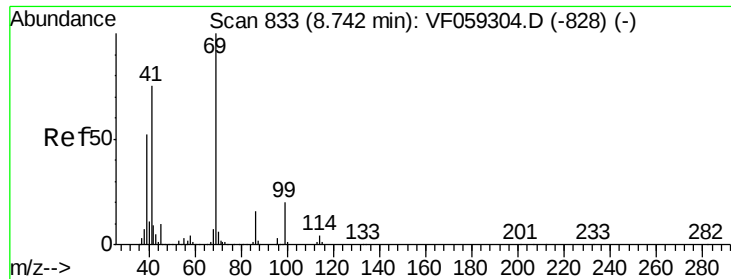
100 67.0 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#56

Ethyl methacrylate

Concen: 1.208 ug/l

RT: 8.74 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-BRE

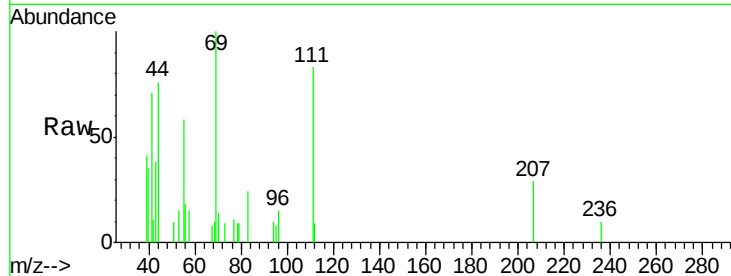
Tgt Ion: 69 Resp: 3079

Ion Ratio Lower Upper

69 100

41 70.9 60.3 90.5

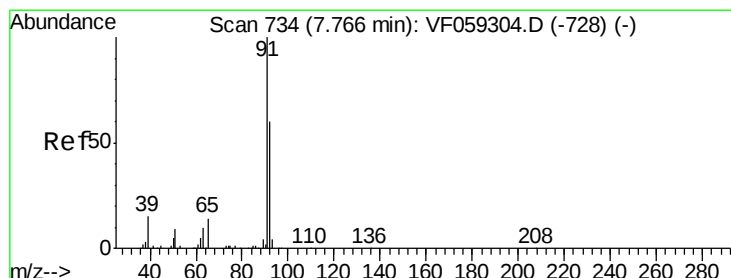
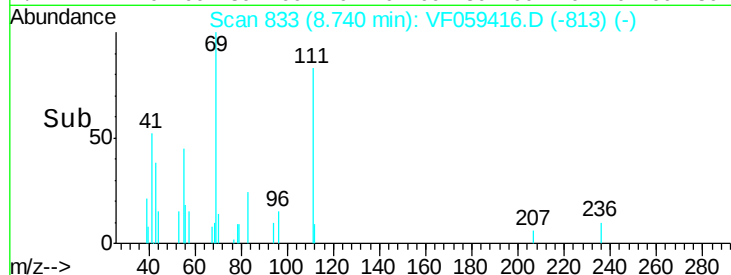
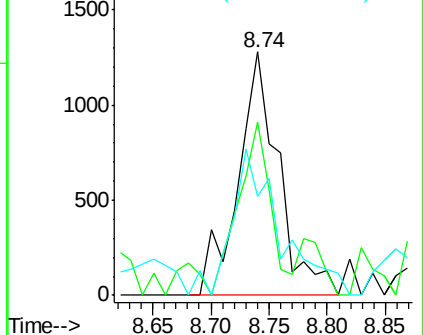
39 40.5 42.2 63.4#



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: 5.880 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059416.D

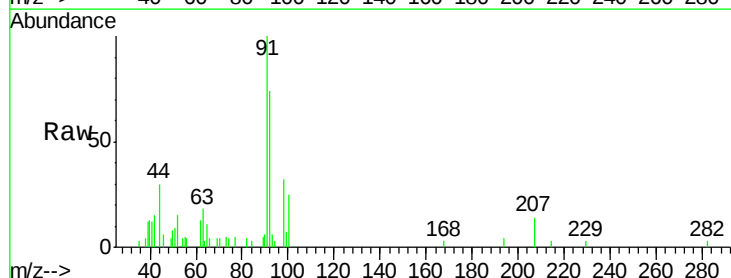
Acq: 3 Jul 2018 17:07

Tgt Ion: 63 Resp: 1124

Ion Ratio Lower Upper

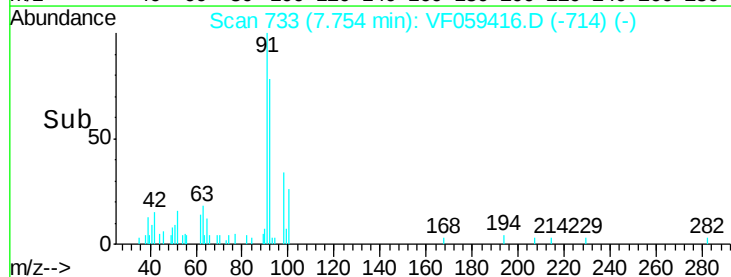
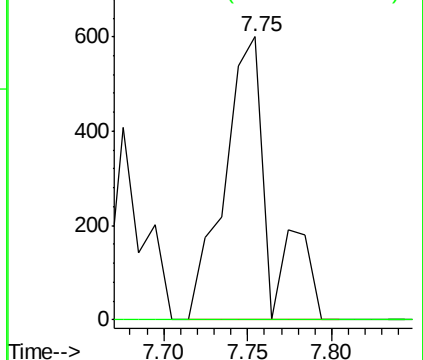
63 100

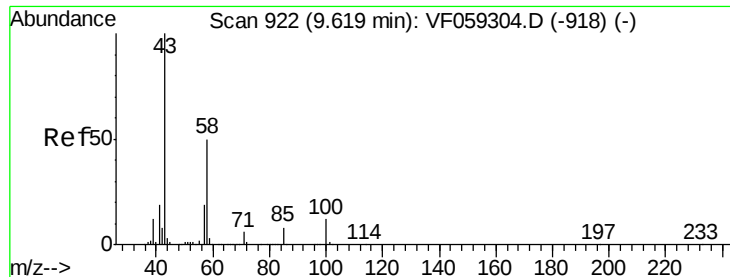
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

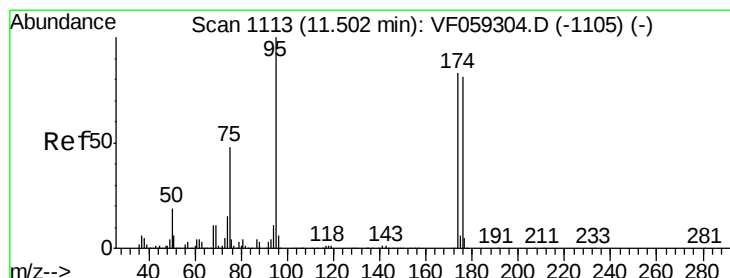
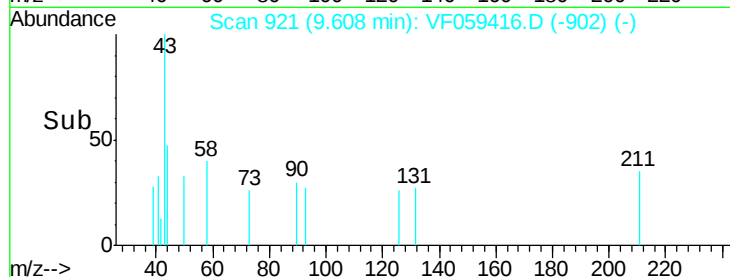
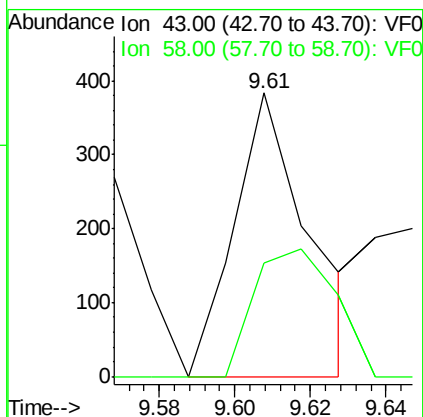
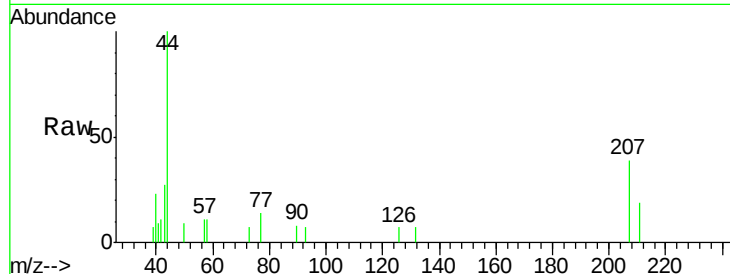




#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

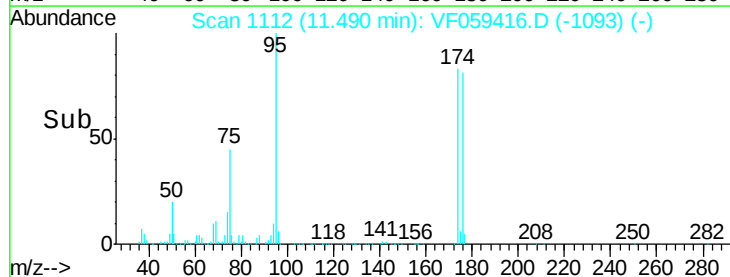
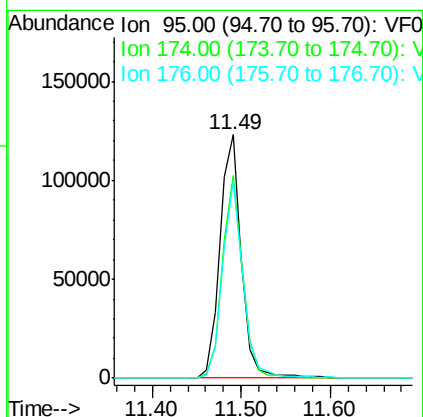
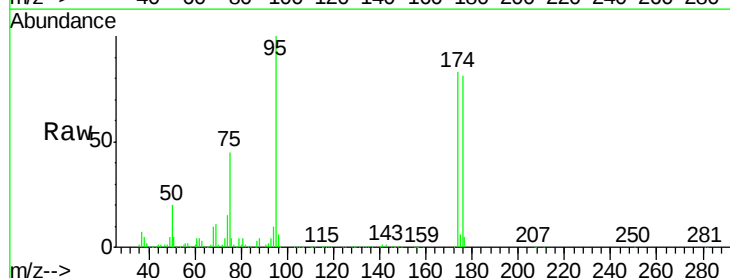
Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-BRE

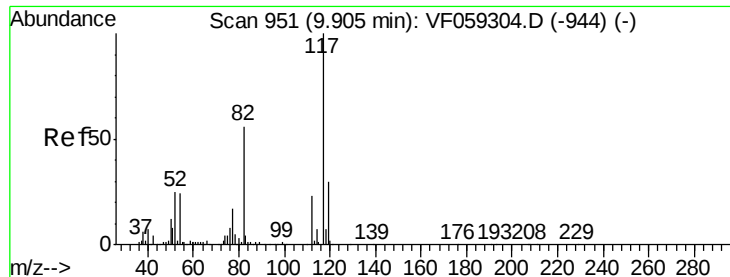
Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
58 39.9 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 55.869 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

Tgt Ion: 95 Resp: 208470
Ion Ratio Lower Upper
95 100
174 83.4 0.0 165.2
176 81.3 0.0 161.0

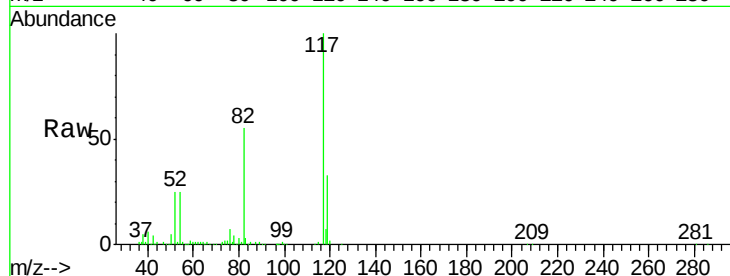




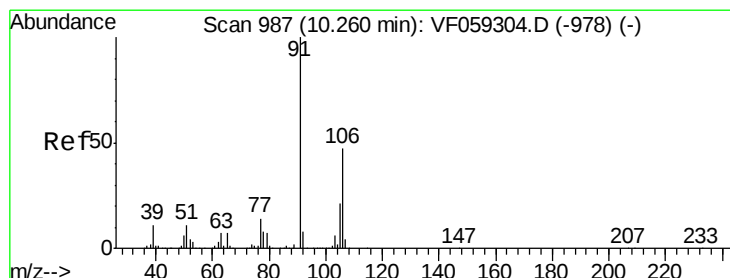
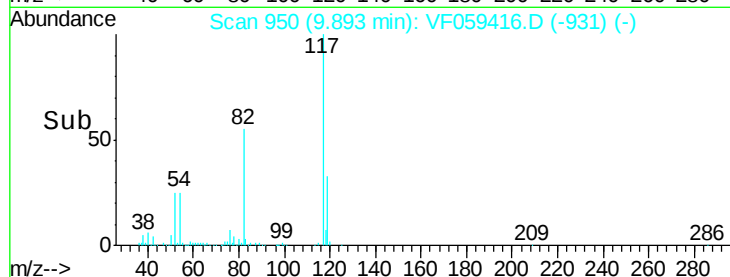
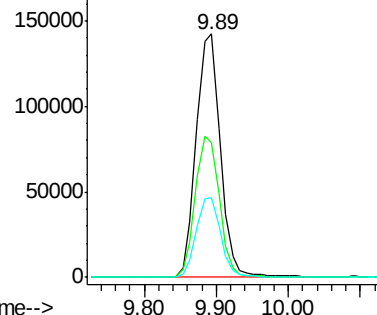
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

Instrument :
MSVOA_F
ClientSampleId :
CL-01-062918-BRE

Tgt Ion:117 Resp: 332518
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 32.8 24.1 36.1

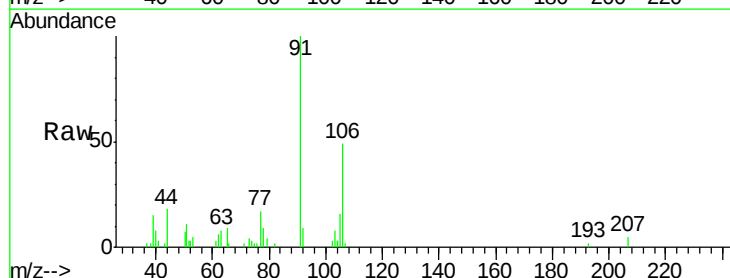


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

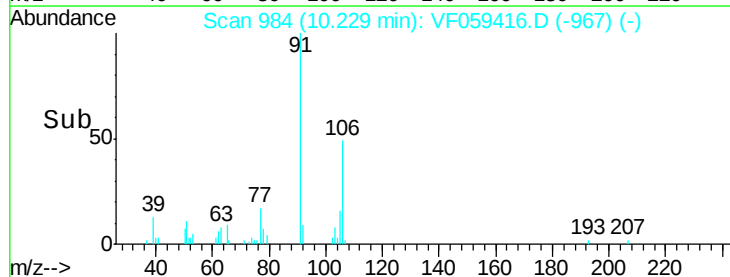
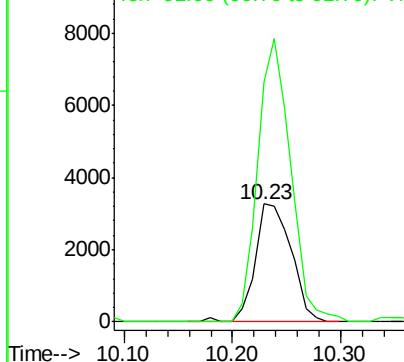


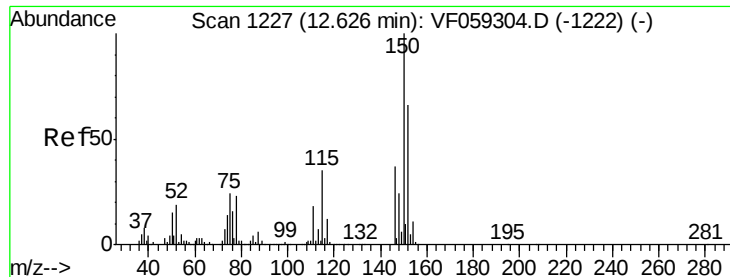
#68
m/p-Xylenes
Concen: 2.042 ug/l
RT: 10.23 min Scan# 984
Delta R.T. -0.03 min
Lab File: VF059416.D
Acq: 3 Jul 2018 17:07

Tgt Ion:106 Resp: 7597
Ion Ratio Lower Upper
106 100
91 204.3 170.8 256.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Instrument :

MSVOA_F

ClientSampleId :

CL-01-062918-BRE

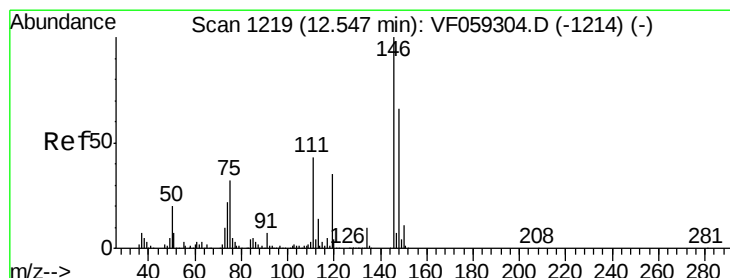
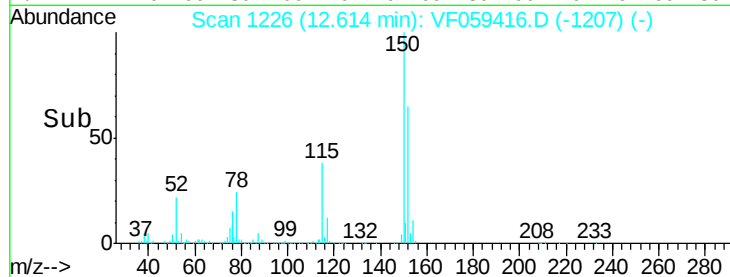
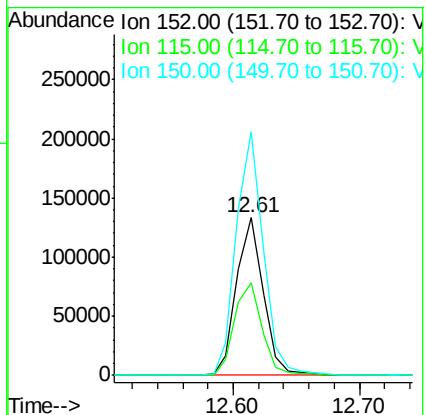
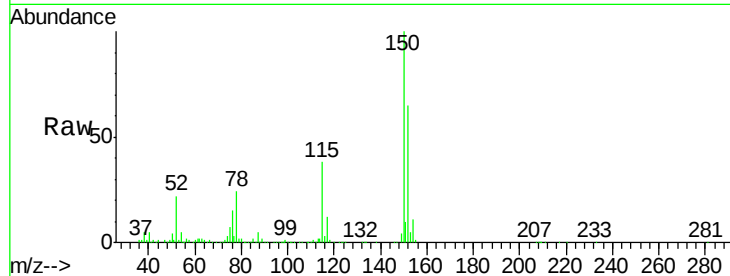
Tgt Ion:152 Resp: 196099

Ion Ratio Lower Upper

152 100

115 59.1 27.1 81.3

150 154.7 0.0 305.2



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059416.D

Acq: 3 Jul 2018 17:07

Tgt Ion:146 Resp: 366

Ion Ratio Lower Upper

146 100

111 80.0 21.4 64.2#

148 88.0 32.8 98.4

