

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021119\
 Data File : VF061593.D
 Acq On : 11 Feb 2019 18:36
 Operator : VA/AP
 Sample : K1459-11
 Misc : 4.69µ/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 12 03:27:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	16381	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	21246	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	13422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	4128	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	3843	19.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	38.00%	
35) Dibromofluoromethane	4.09	113	5406	32.25	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	64.50%	
50) Toluene-d8	7.54	98	18590	40.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	80.94%	
62) 4-Bromofluorobenzene	11.40	95	4383	20.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	40.84%	

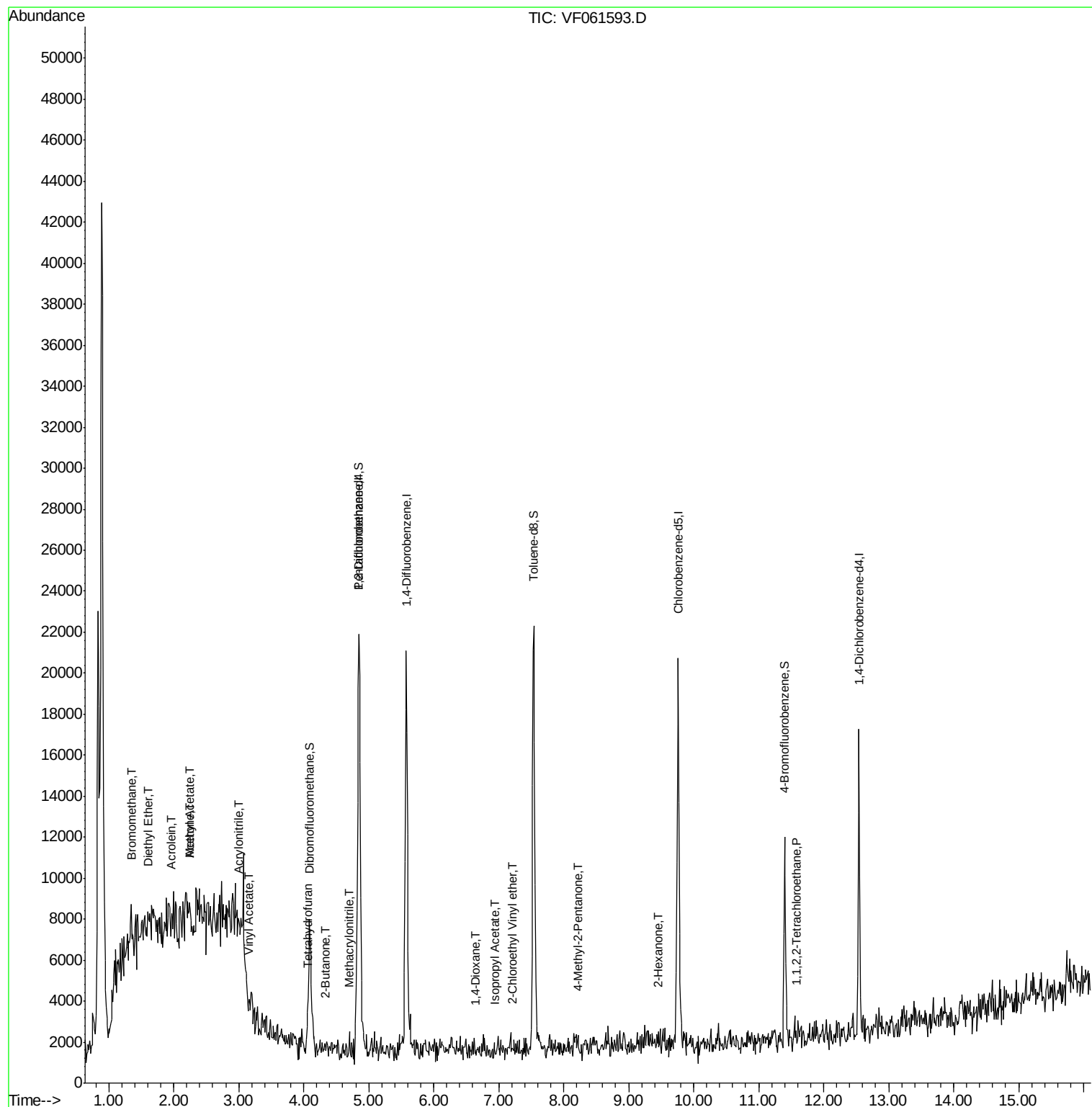
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	818	5.975	ug/l #	2
8) Diethyl Ether	1.59	74	70	1.339	ug/l #	28
13) Acrolein	1.98	56	214	38.159	ug/l #	9
14) Allyl chloride	2.09	41	308	Below Cal	#	50
15) Acrylonitrile	3.00	53	433	19.746	ug/l	88
16) Acetone	2.25	43	3061	75.445	ug/l #	61
18) Methyl Acetate	2.25	43	3061	38.043	ug/l	95
20) Methylene Chloride	2.13	84	65	Below Cal	#	1
23) Vinyl Acetate	3.17	43	135	3.778	ug/l #	78
25) 2-Butanone	4.33	43	79	1.171	ug/l #	57
29) Tetrahydrofuran	4.05	42	227	7.813	ug/l #	61
41) Methacrylonitrile	4.69	41	265	5.058	ug/l #	29
43) Isopropyl Acetate	6.95	43	236	1.910	ug/l #	51
49) 1,4-Dioxane	6.64	88	60	36.714	ug/l #	13
51) 4-Methyl-2-Pentanone	8.23	43	232	2.554	ug/l #	39
58) 2-Chloroethyl Vinyl ether	7.21	63	65	32.143	ug/l #	47
59) 2-Hexanone	9.45	43	168	2.652	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	11.59	83	72	1.204	ug/l #	24

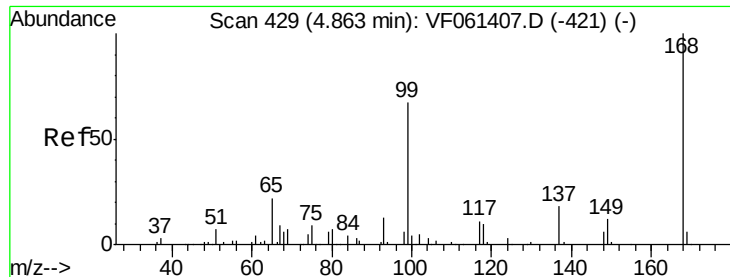
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

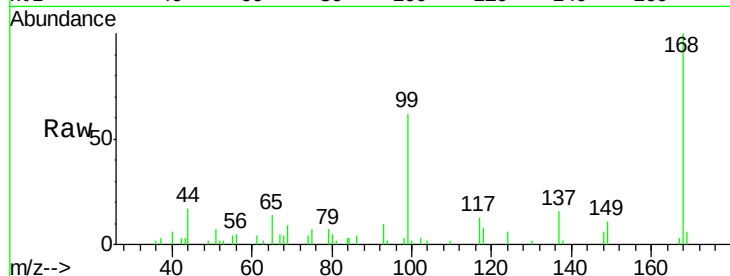
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 16381

Ion Ratio Lower Upper

168 100

99 61.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

6000

5000

4000

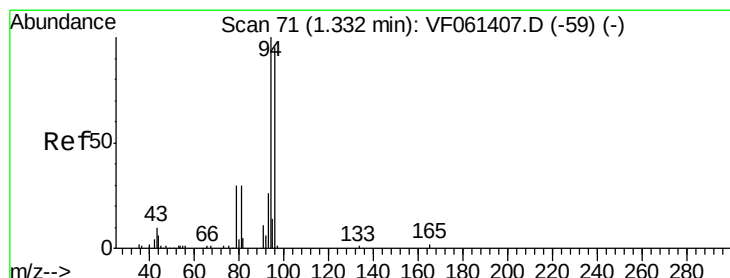
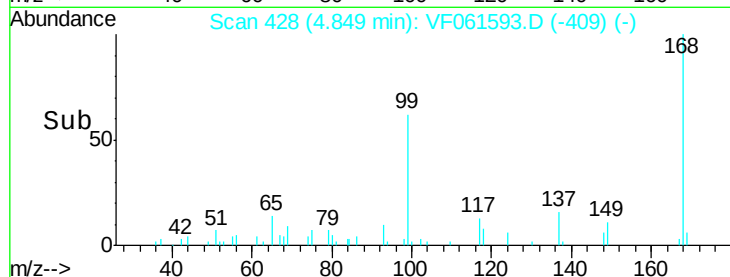
3000

2000

1000

0

Time-->



#5

Bromomethane

Concen: 5.975 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VF061593.D

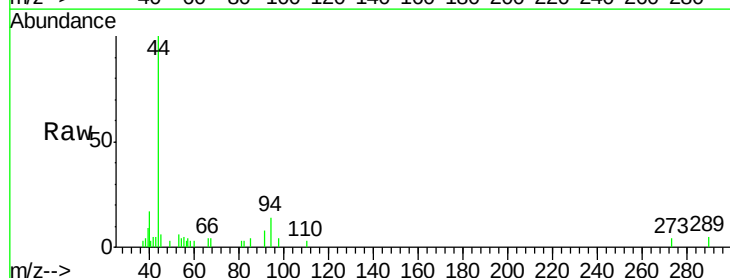
Acq: 11 Feb 2019 18:36

Tgt Ion: 94 Resp: 818

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.35

500

400

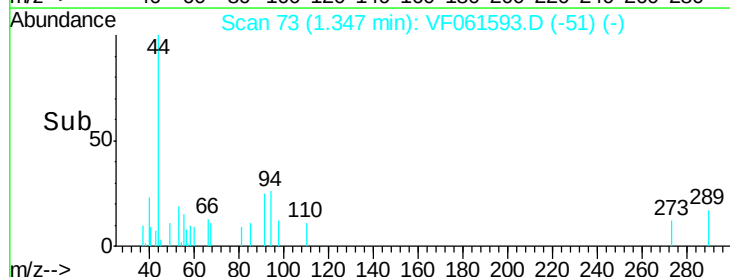
300

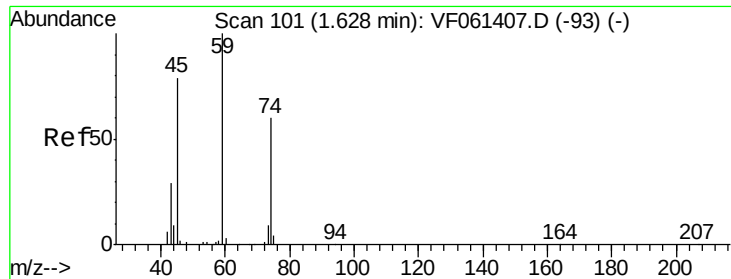
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.339 ug/l

RT: 1.59 min Scan# 98

Delta R.T. -0.03 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

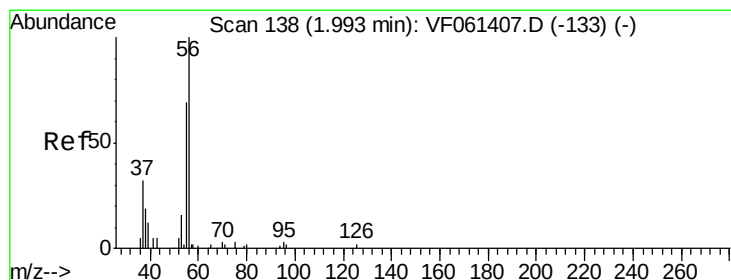
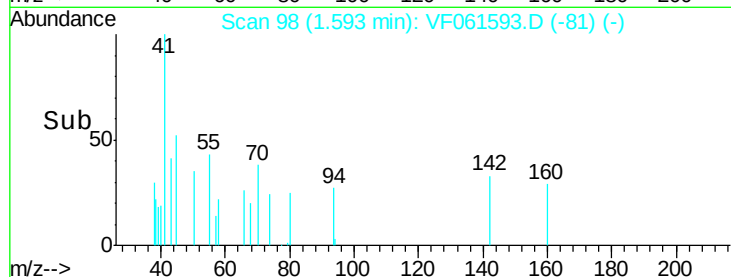
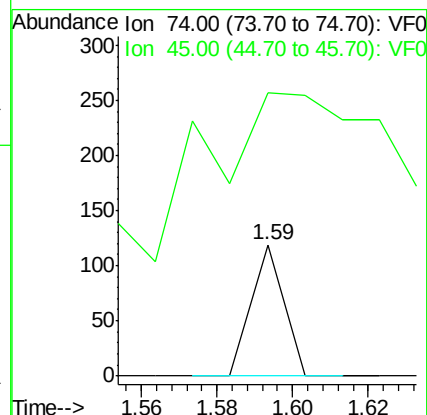
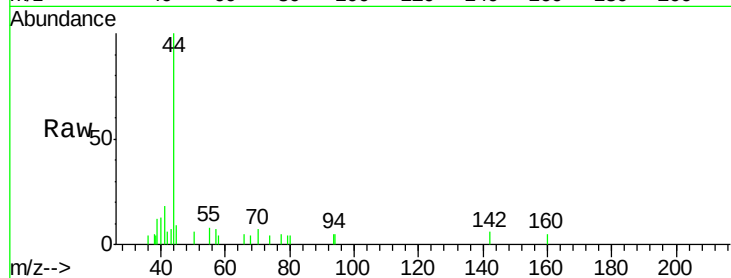
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 74 Resp: 70

Ion Ratio Lower Upper

74 100

45 216.0 65.8 197.5#



#13

Acrolein

Concen: 38.159 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061593.D

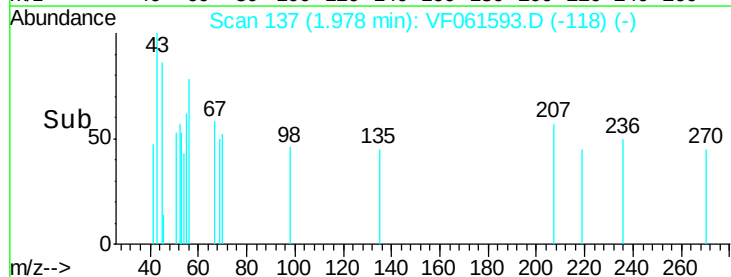
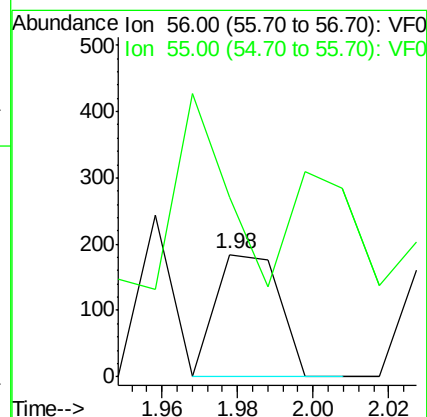
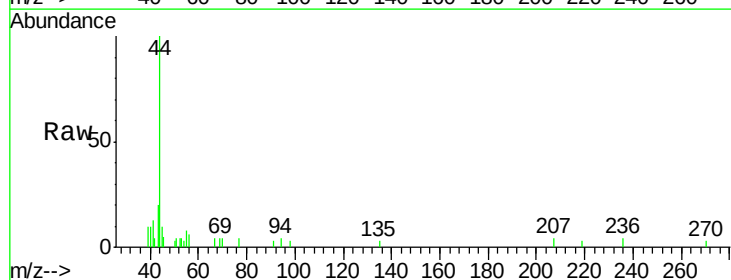
Acq: 11 Feb 2019 18:36

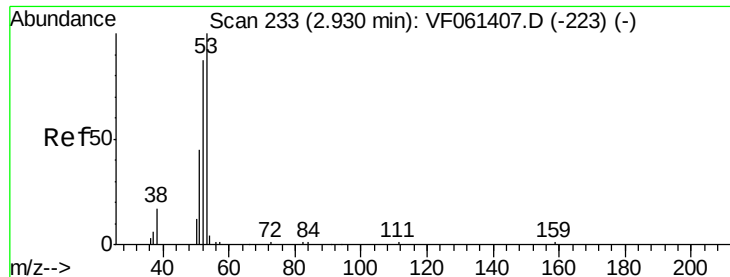
Tgt Ion: 56 Resp: 214

Ion Ratio Lower Upper

56 100

55 147.3 57.5 86.3#





#15

Acrylonitrile

Concen: 19.746 ug/l

RT: 3.00 min Scan# 241

Delta R.T. 0.07 min

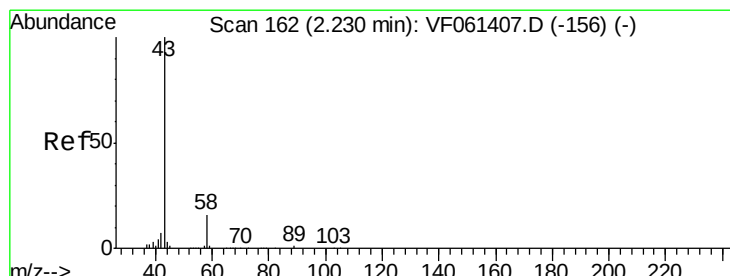
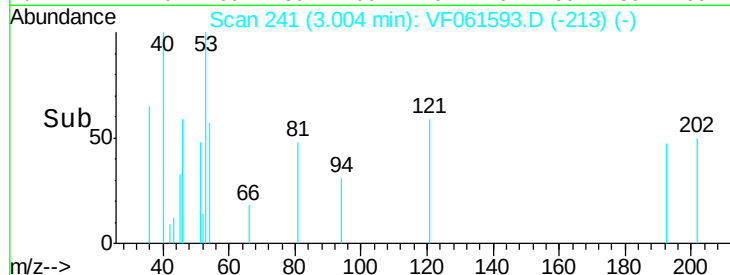
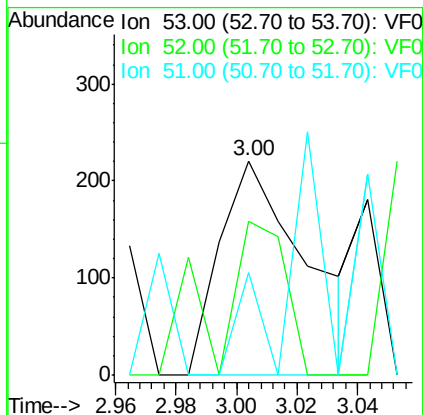
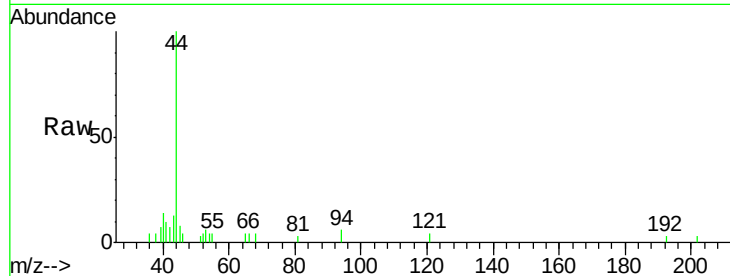
Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 433

Ion	Ratio	Lower	Upper
53	100		
52	71.5	69.6	104.4
51	47.5	36.8	55.2



#16

Acetone

Concen: 75.445 ug/l

RT: 2.25 min Scan# 165

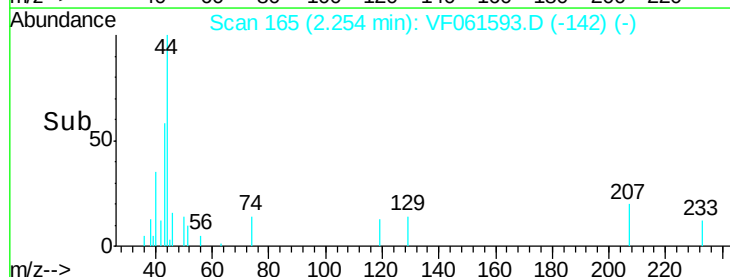
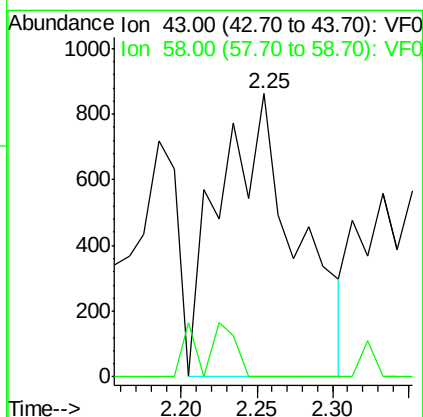
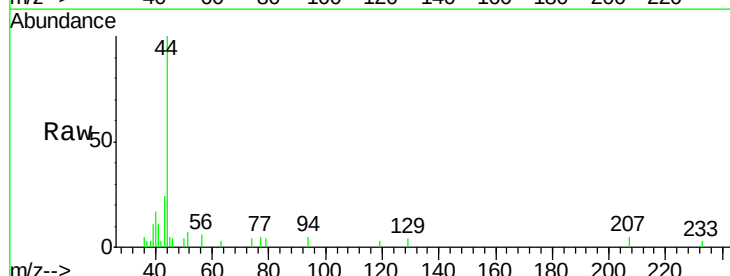
Delta R.T. 0.02 min

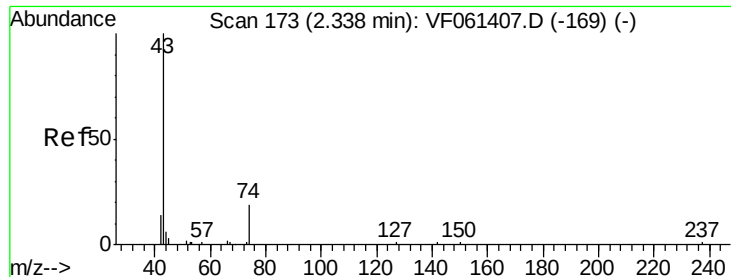
Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Tgt Ion: 43 Resp: 3061

Ion	Ratio	Lower	Upper
43	100		
58	0.0	13.3	19.9#

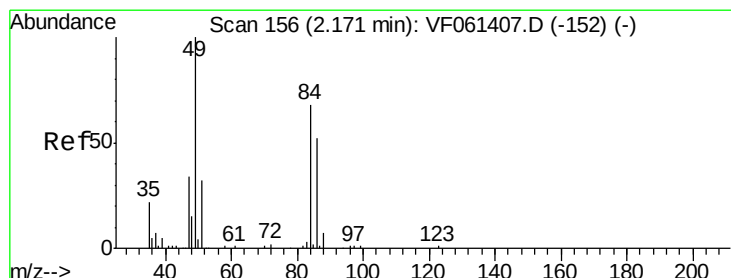
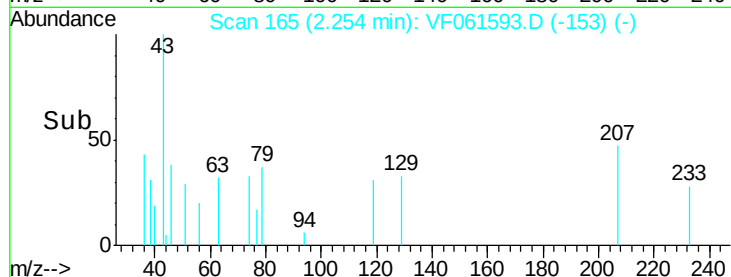
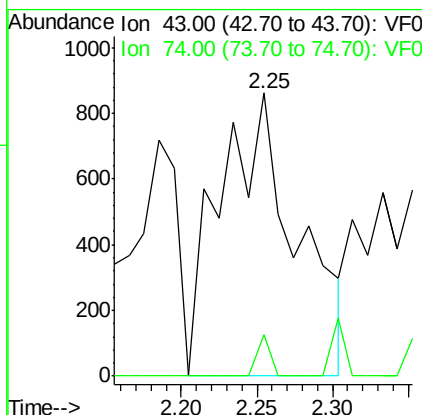
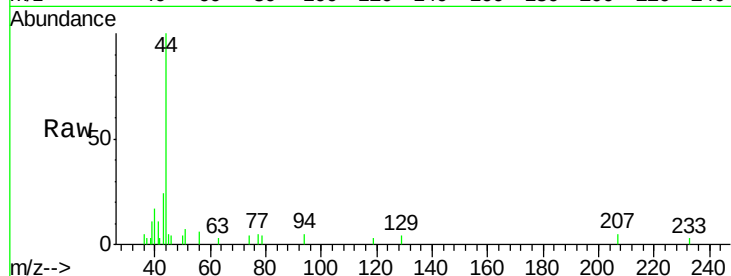




#18
Methyl Acetate
Concen: 38.043 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.08 min
Lab File: VF061593.D
Acq: 11 Feb 2019 18:36

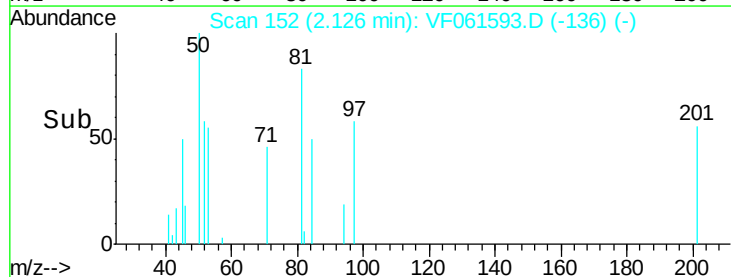
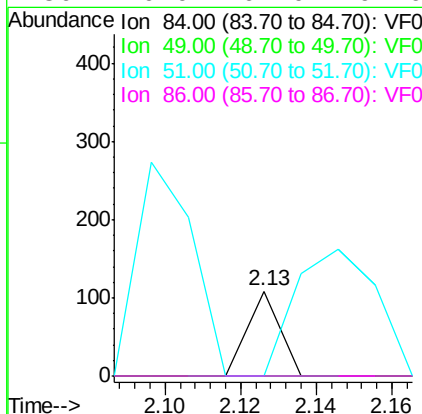
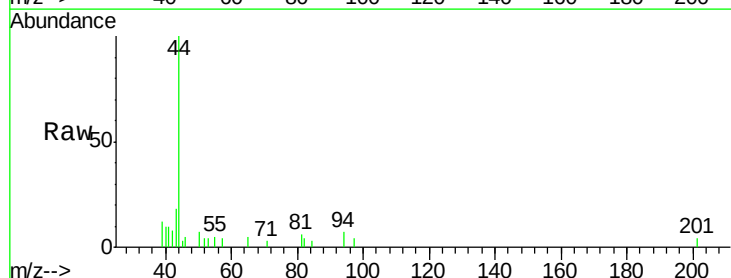
Instrument :
MSVOA_F
ClientSampled :

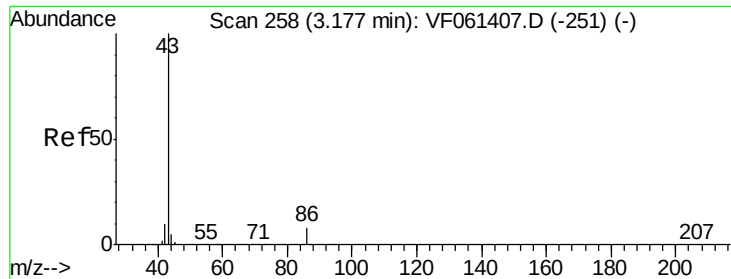
Tot Ion: 43 Resp: 3061
Ion Ratio Lower Upper
43 100
74 14.7 13.4 20.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.13 min Scan# 152
Delta R.T. -0.04 min
Lab File: VF061593.D
Acq: 11 Feb 2019 18:36

Tgt Ion: 84 Resp: 65
Ion Ratio Lower Upper
84 100
49 0.0 120.0 180.0#
51 0.0 38.6 58.0#
86 0.0 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.778 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

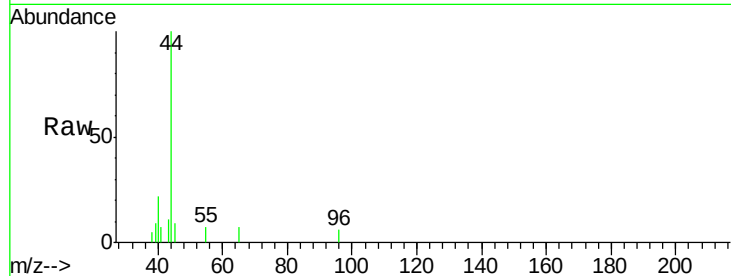
ClientSampled :

Tot Ion: 43 Resp: 135

Ion Ratio Lower Upper

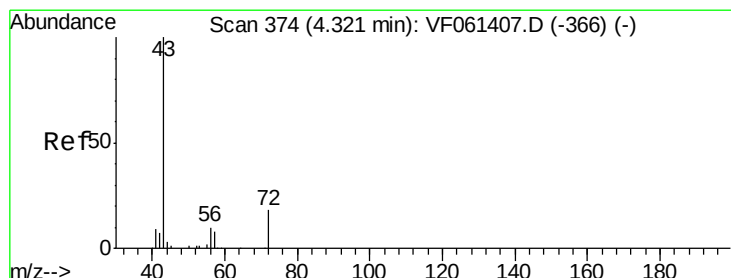
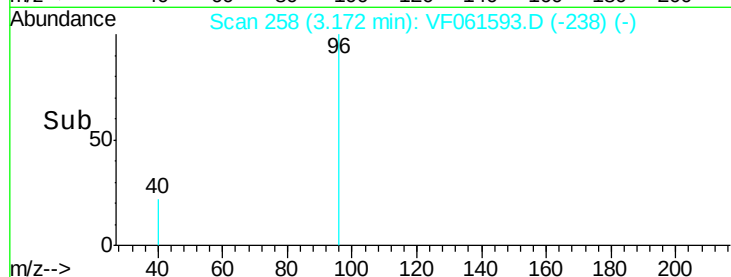
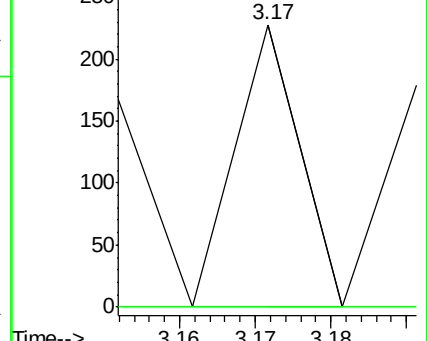
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.171 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061593.D

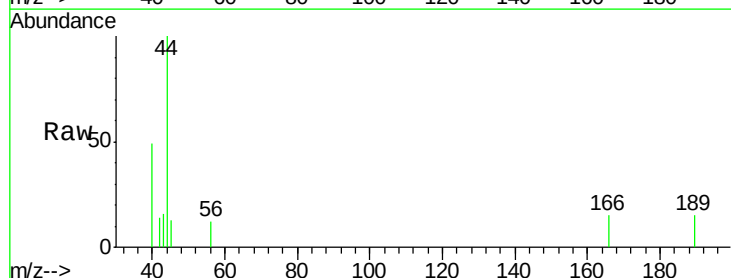
Acq: 11 Feb 2019 18:36

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

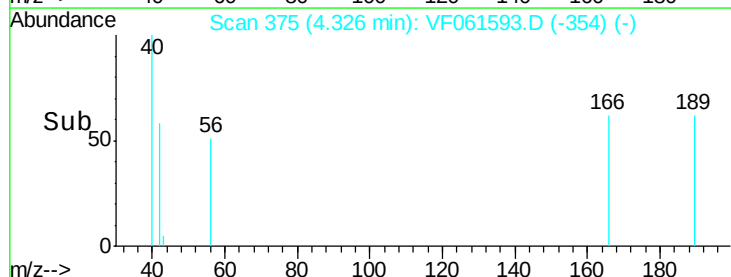
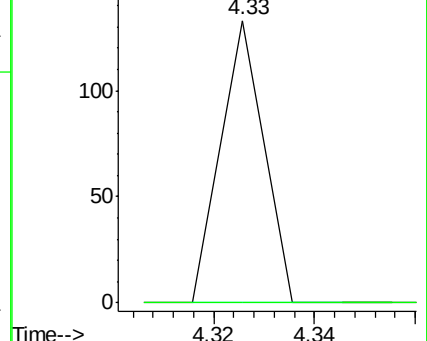
43 100

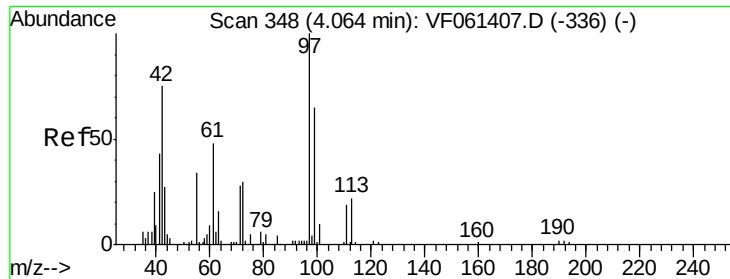
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 7.813 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

ClientSampleId :

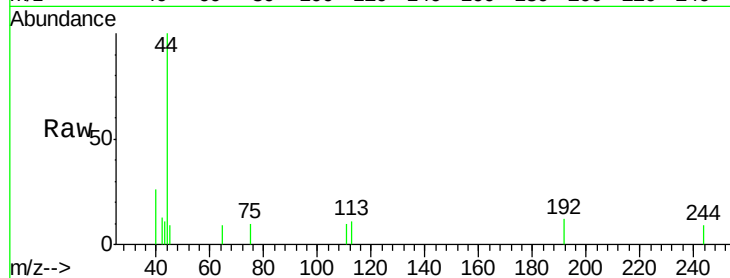
Tot Ion: 42 Resp: 227

Ion Ratio Lower Upper

42 100

72 26.9 28.9 43.3#

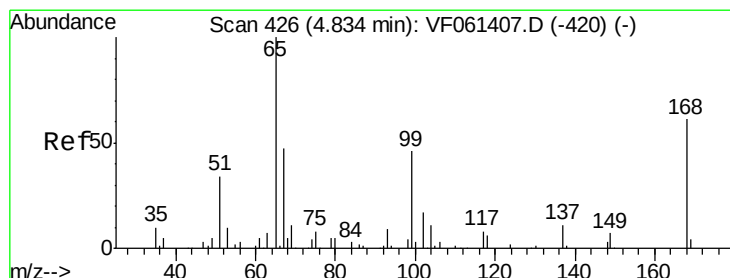
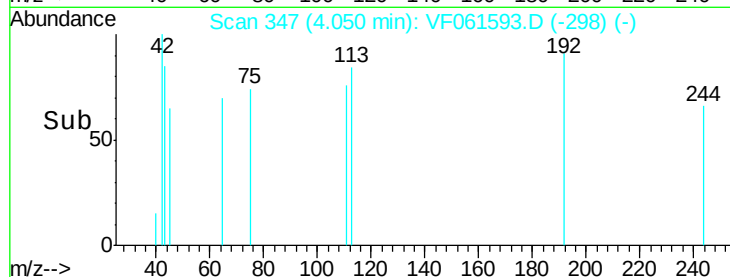
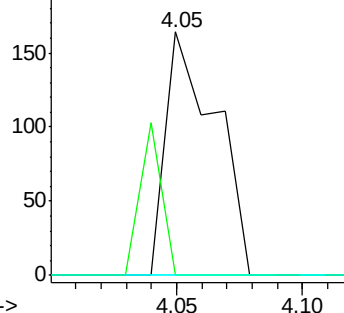
71 0.0 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 19.002 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061593.D

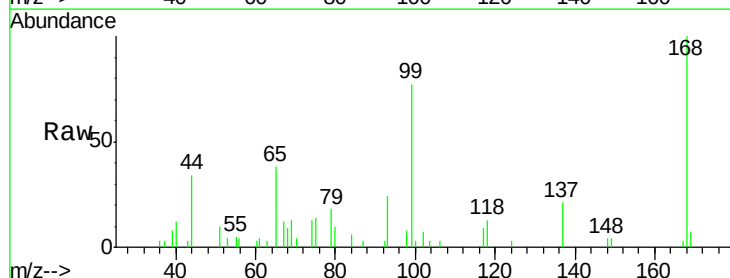
Acq: 11 Feb 2019 18:36

Tgt Ion: 65 Resp: 3843

Ion Ratio Lower Upper

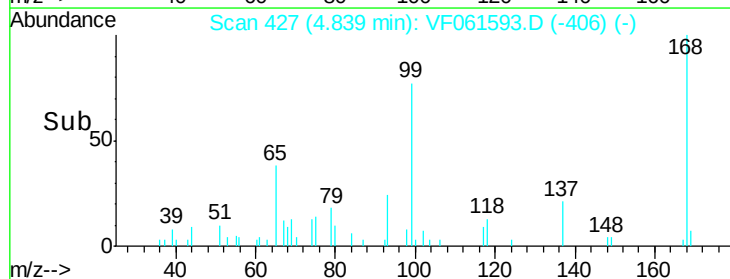
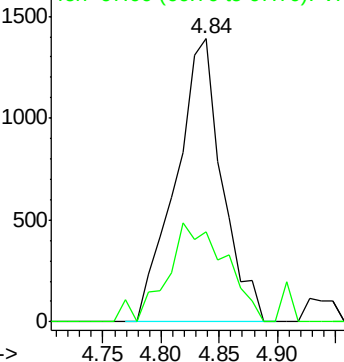
65 100

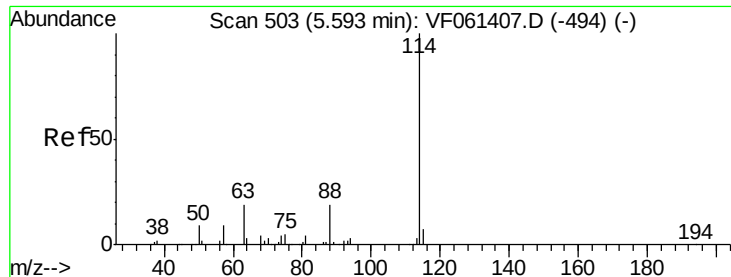
67 32.0 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

ClientSampleId :

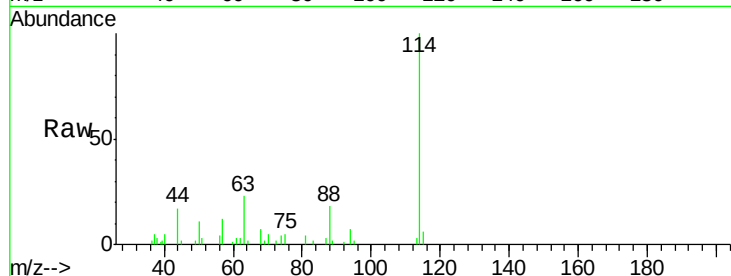
Tot Ion:114 Resp: 21246

Ion Ratio Lower Upper

114 100

63 23.0 0.0 39.0

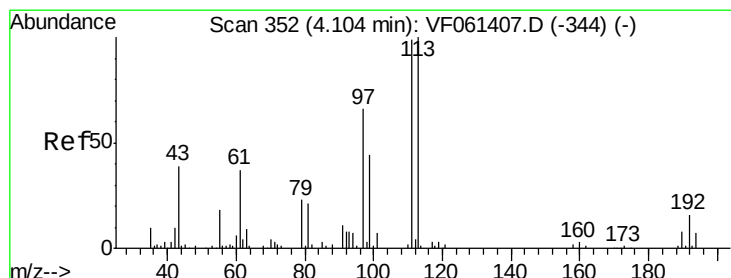
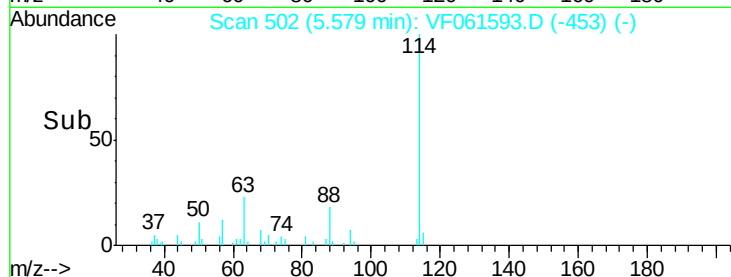
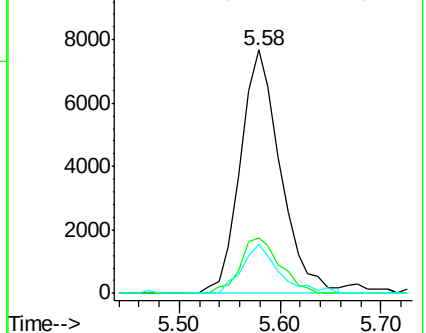
88 19.9 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 32.246 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

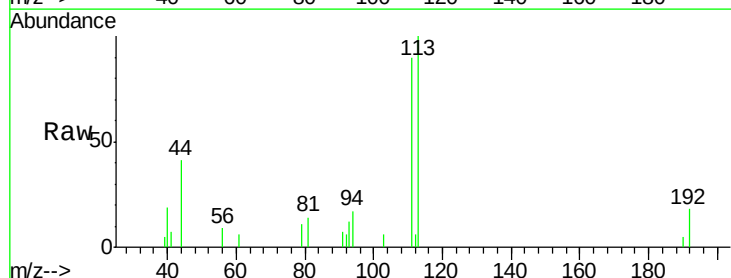
Tgt Ion:113 Resp: 5406

Ion Ratio Lower Upper

113 100

111 90.0 79.4 119.0

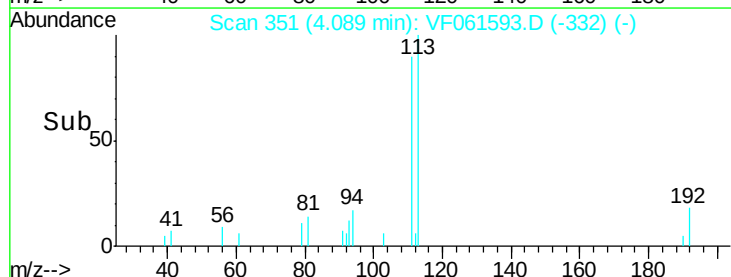
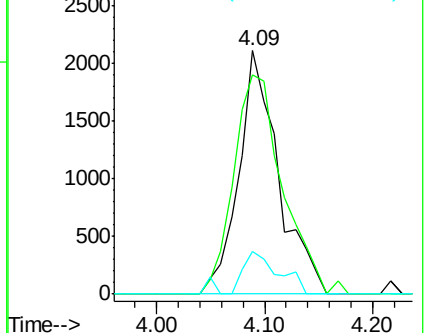
192 17.6 12.4 18.6

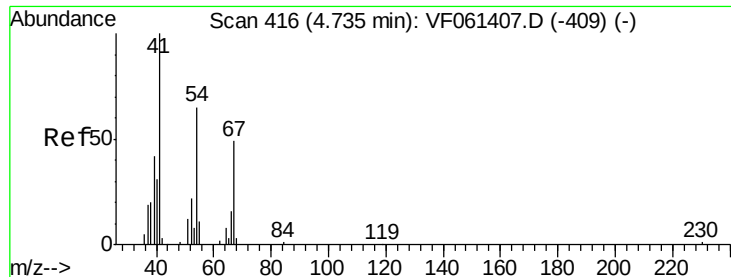


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 5.058 ug/l

RT: 4.69 min Scan# 412

Delta R.T. -0.04 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 265

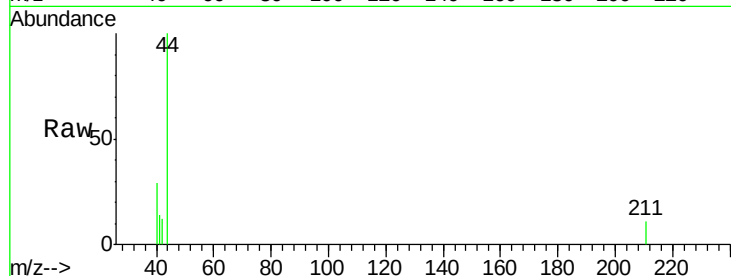
Ion Ratio Lower Upper

41 100

39 0.0 43.1 64.7#

67 0.0 38.8 58.2#

52 0.0 33.2 49.8#

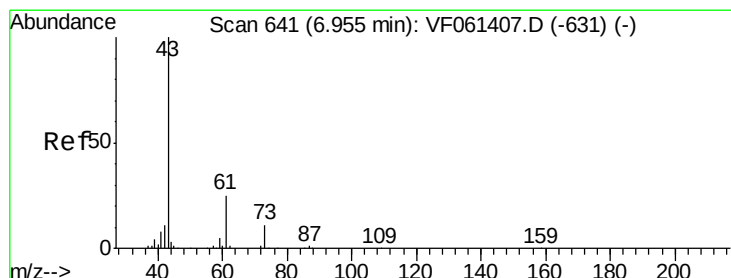
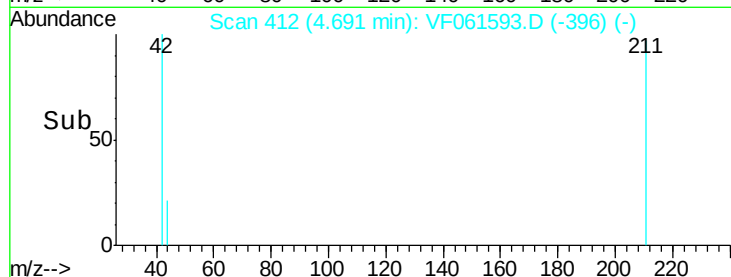
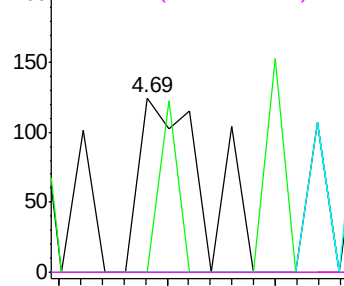


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 1.910 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

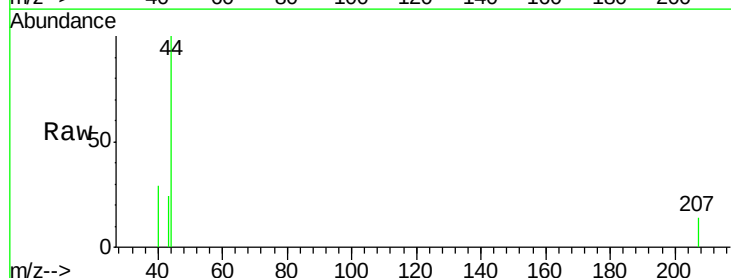
Tgt Ion: 43 Resp: 236

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

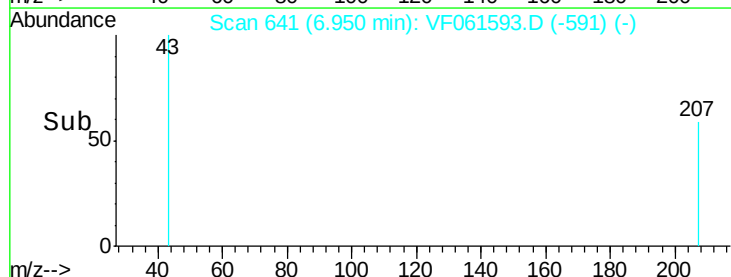
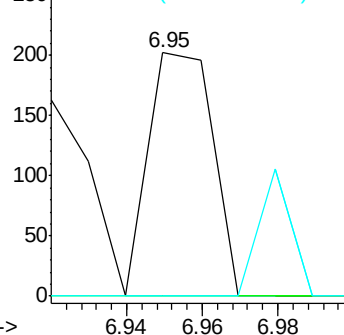
87 0.0 0.5 0.7#

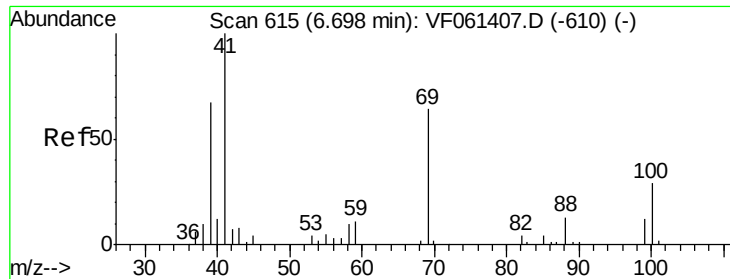


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#49

1,4-Dioxane

Concen: 36.714 ug/l

RT: 6.64 min Scan# 610

Delta R.T. -0.05 min

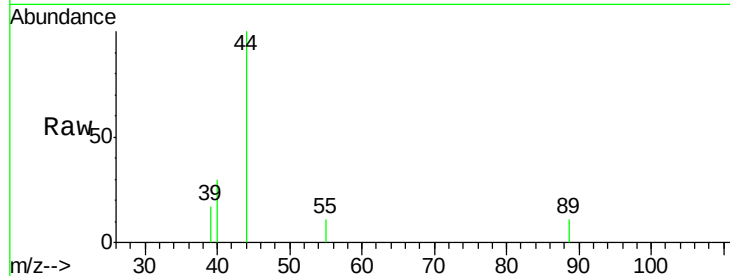
Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 60

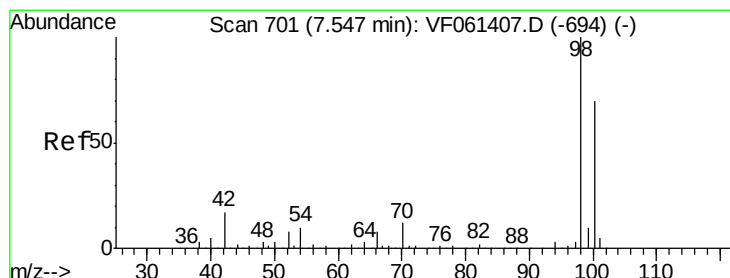
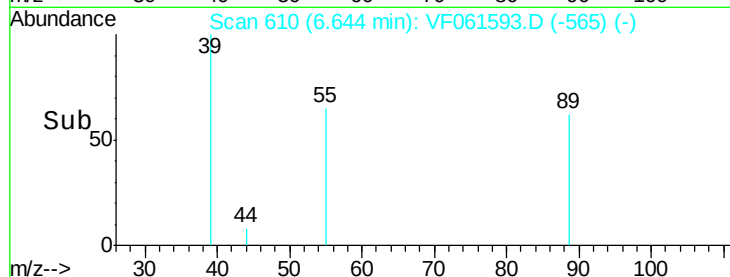
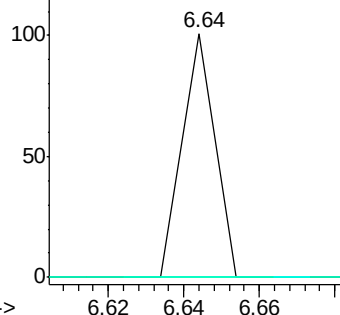
Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.5	83.3#
58	0.0	59.9	89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 40.472 ug/l

RT: 7.54 min Scan# 701

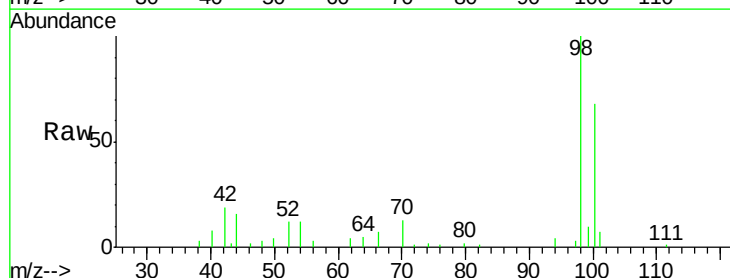
Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

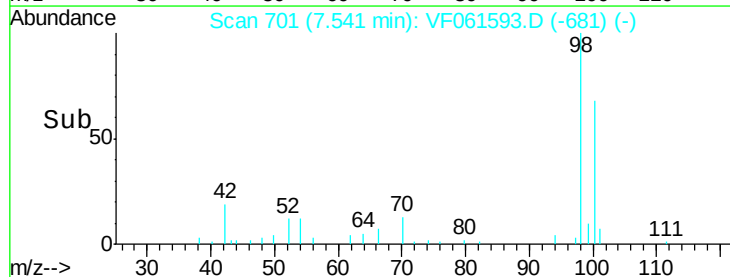
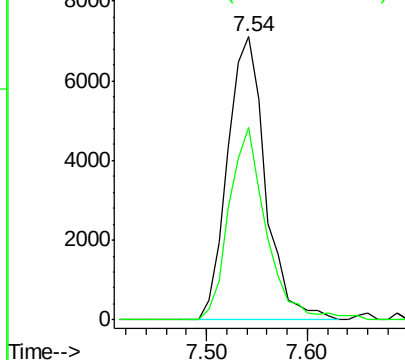
Tgt Ion: 98 Resp: 18590

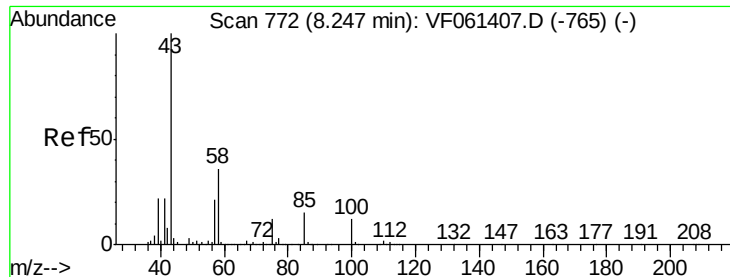
Ion	Ratio	Lower	Upper
98	100		
100	67.9	55.6	83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.554 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

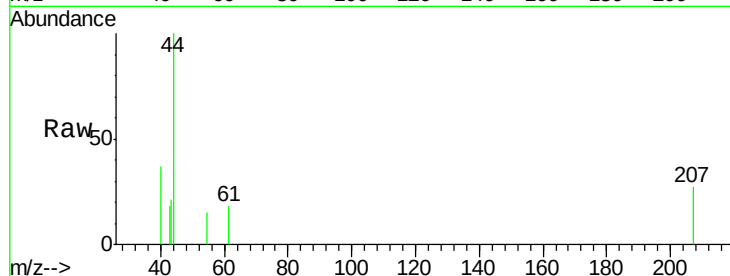
ClientSampleId :

Tot Ion: 43 Resp: 232

Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.23

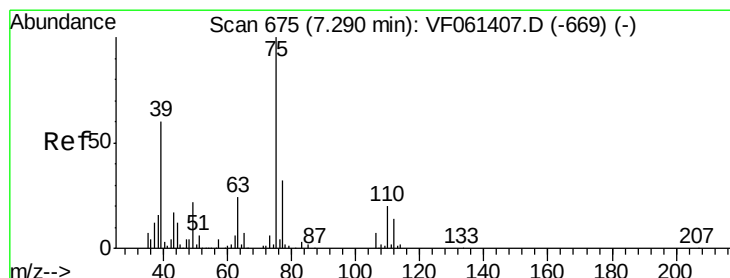
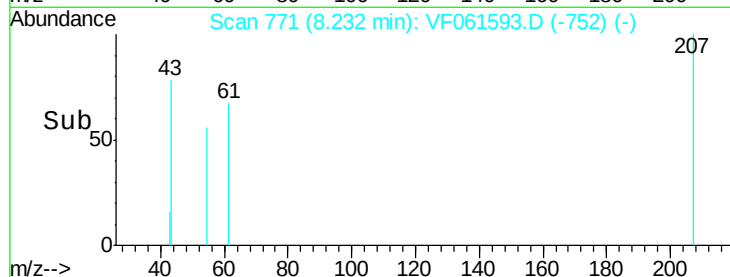
300

200

100

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 32.143 ug/l

RT: 7.21 min Scan# 667

Delta R.T. -0.08 min

Lab File: VF061593.D

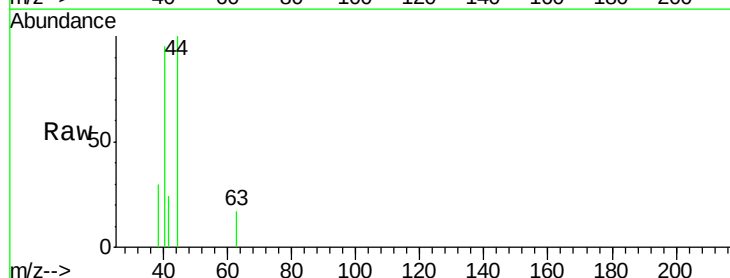
Acq: 11 Feb 2019 18:36

Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.21

120

100

80

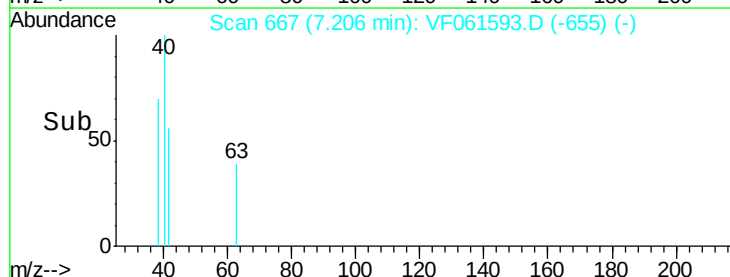
60

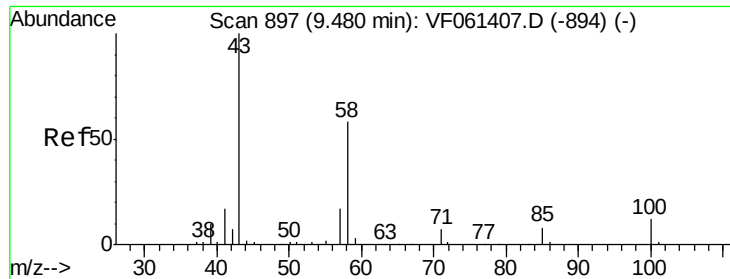
40

20

0

Time-->

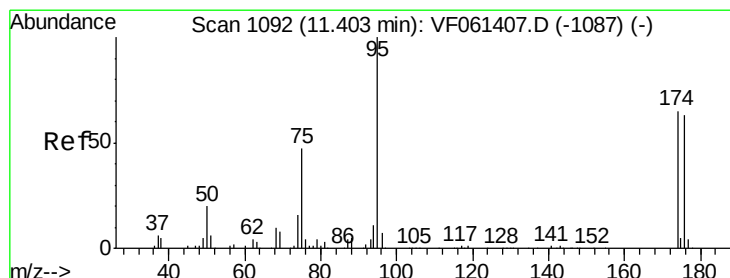
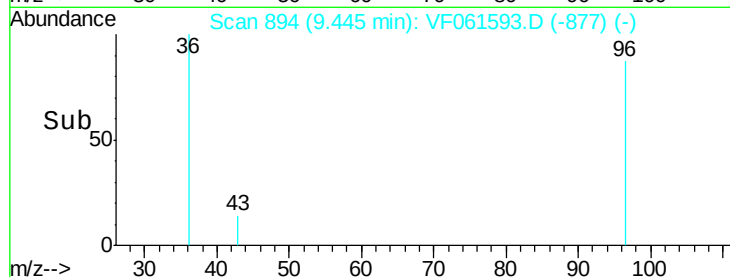
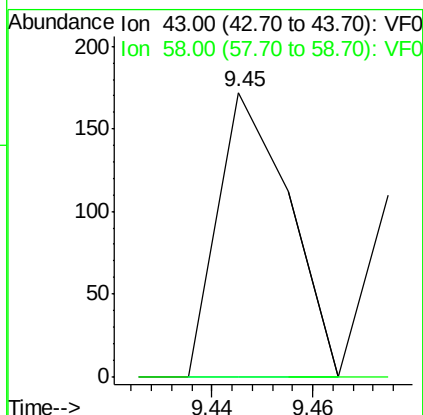
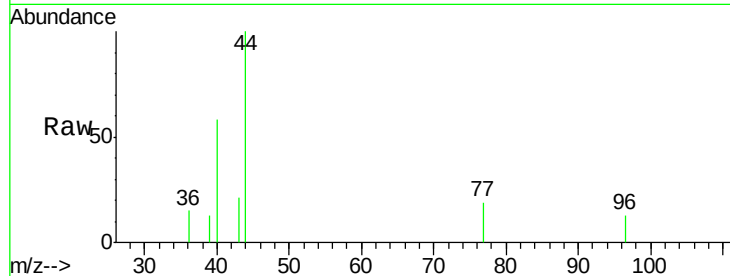




#59
2-Hexanone
Concen: 2.652 ug/l
RT: 9.45 min Scan# 894
Delta R.T. -0.03 min
Lab File: VF061593.D
Acq: 11 Feb 2019 18:36

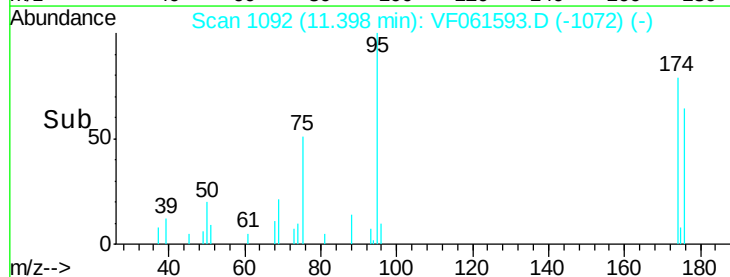
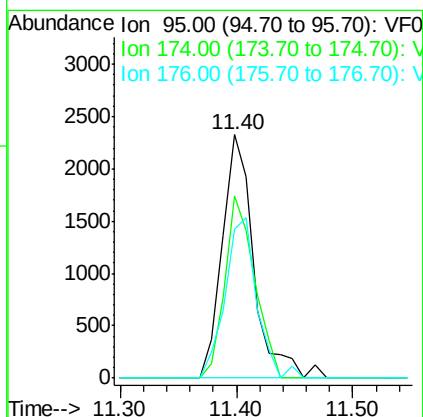
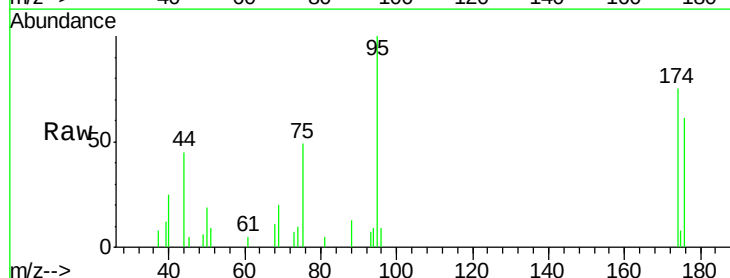
Instrument :
MSVOA_F
ClientSampleId :

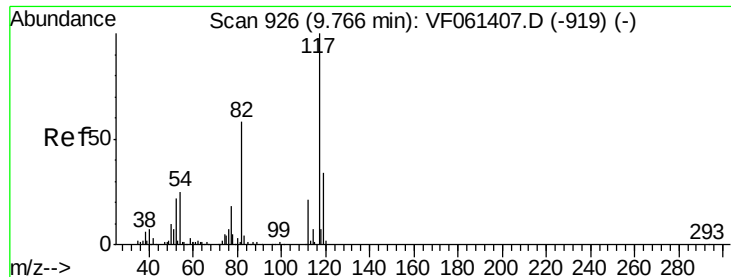
Tot Ion: 43 Resp: 168
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 20.423 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061593.D
Acq: 11 Feb 2019 18:36

Tgt Ion: 95 Resp: 4383
Ion Ratio Lower Upper
95 100
174 75.0 0.0 130.4
176 61.2 0.0 126.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

Instrument :

MSVOA_F

ClientSampleId :

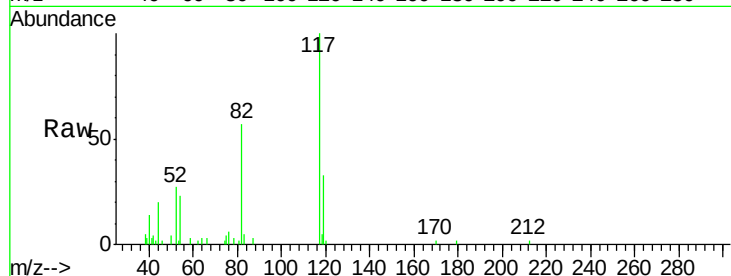
Tot Ion:117 Resp: 13422

Ion Ratio Lower Upper

117 100

82 57.0 46.4 69.6

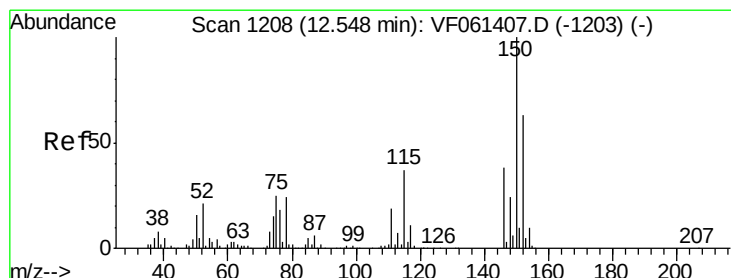
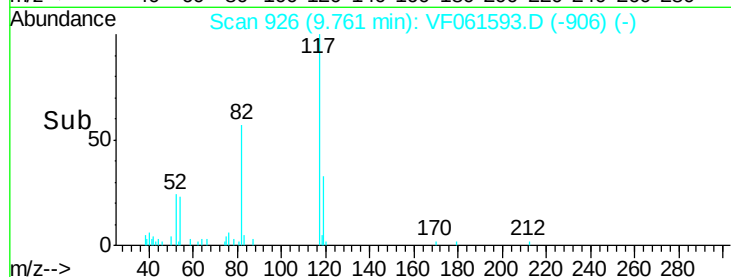
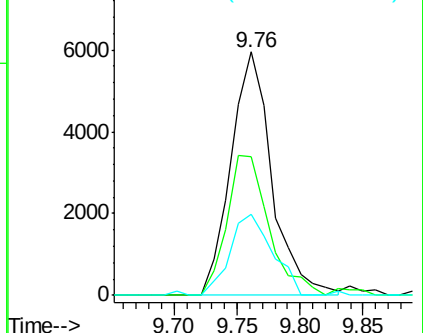
119 33.5 27.2 40.8



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: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061593.D

Acq: 11 Feb 2019 18:36

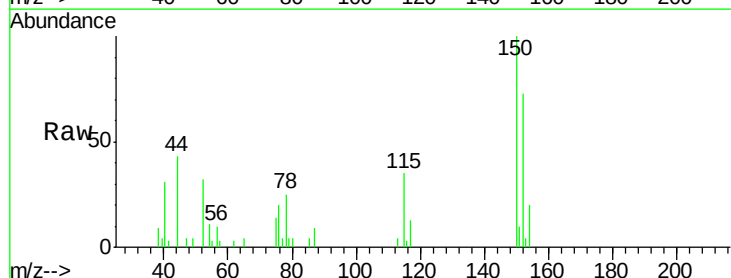
Tgt Ion:152 Resp: 4128

Ion Ratio Lower Upper

152 100

115 47.2 30.0 90.0

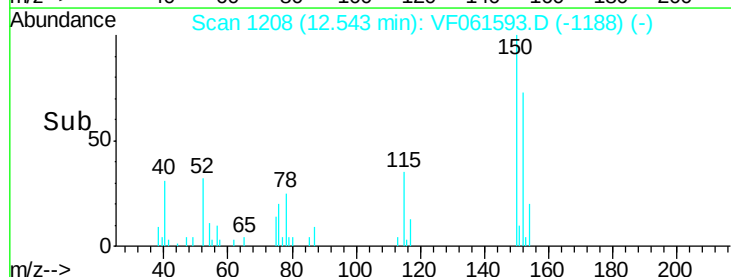
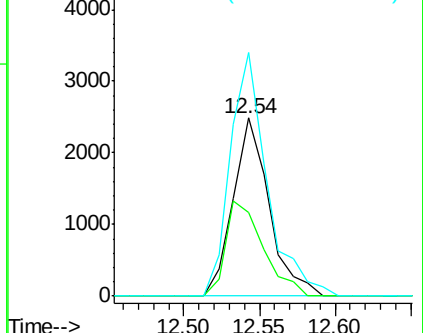
150 136.6 0.0 321.4

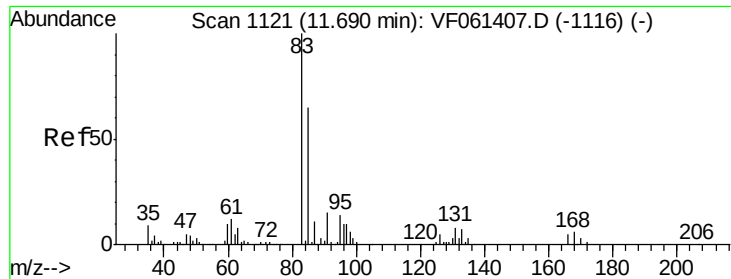


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

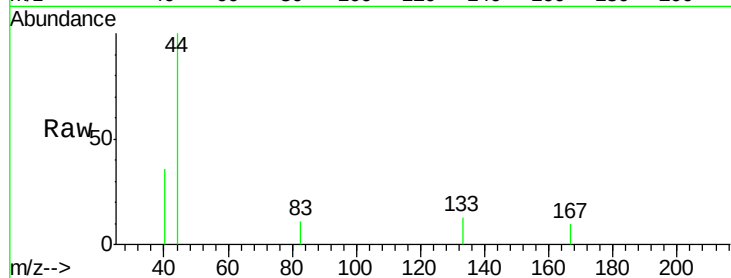




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.204 ug/l
 RT: 11.59 min Scan# 1111
 Delta R.T. -0.10 min
 Lab File: VF061593.D
 Acq: 11 Feb 2019 18:36

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 83 Resp: 72
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.0 12.2#
 85 0.0 32.7 98.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VF0

