

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061461.D
 Acq On : 18 Jan 2019 16:04
 Operator : VA/AP
 Sample : K1015-09RE
 Misc : 5.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-01-011719-ARE

Quant Time: Jan 19 03:59:16 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	4.87	168	212653	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	370465	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	290564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	108715	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	159516	60.76	ug/l	0.00
Spiked Amount			Recovery	=	121.52%	
35) Dibromofluoromethane	4.11	113	171342	58.61	ug/l	0.00
Spiked Amount			Recovery	=	117.22%	
50) Toluene-d8	7.55	98	345452	43.13	ug/l	0.00
Spiked Amount			Recovery	=	86.26%	
62) 4-Bromofluorobenzene	11.41	95	146091	39.04	ug/l	0.00
Spiked Amount			Recovery	=	78.08%	

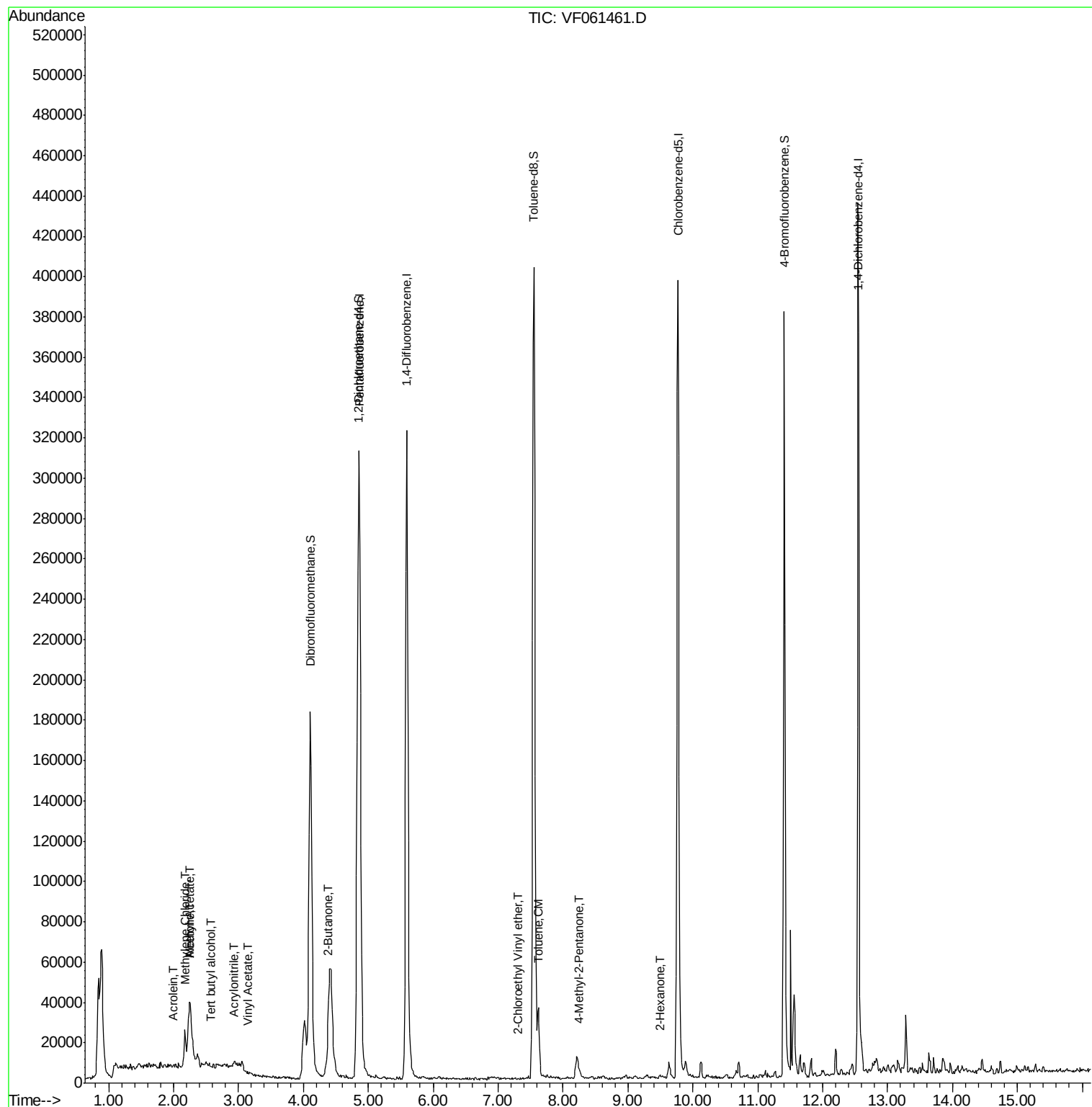
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	165	1.485	ug/l #	1
13) Acrolein	1.99	56	406	14.403	ug/l #	77
14) Allyl chloride	2.08	41	340	Below Cal	#	52
15) Acrylonitrile	2.94	53	289	1.015	ug/l #	23
16) Acetone	2.24	43	27151	51.549	ug/l #	91
18) Methyl Acetate	2.24	43	27151	25.993	ug/l #	61
20) Methylene Chloride	2.18	84	6148	1.743	ug/l #	81
23) Vinyl Acetate	3.15	43	897	3.493	ug/l #	78
25) 2-Butanone	4.38	43	1093	1.248	ug/l	93
49) 1,4-Dioxane	7.09	88	69	Below Cal	#	38
51) 4-Methyl-2-Pentanone	8.25	43	2517	1.589	ug/l	91
52) Toluene	7.62	92	17955	2.853	ug/l	85
58) 2-Chloroethyl Vinyl ether	7.30	63	132	28.056	ug/l #	47
59) 2-Hexanone	9.50	43	1851	1.676	ug/l	96

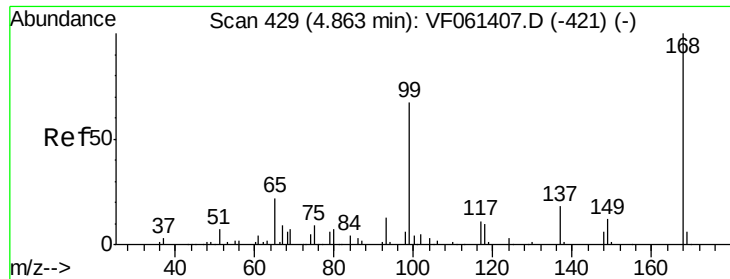
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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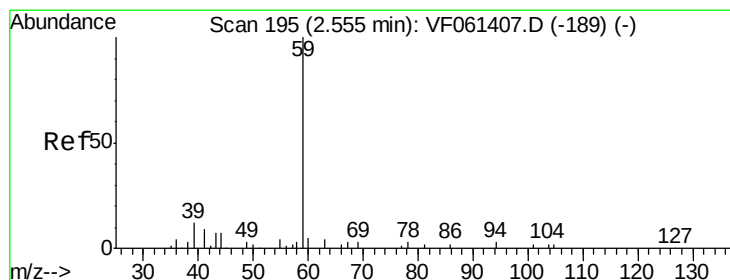
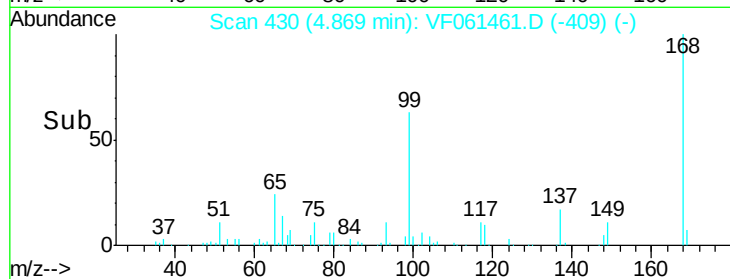
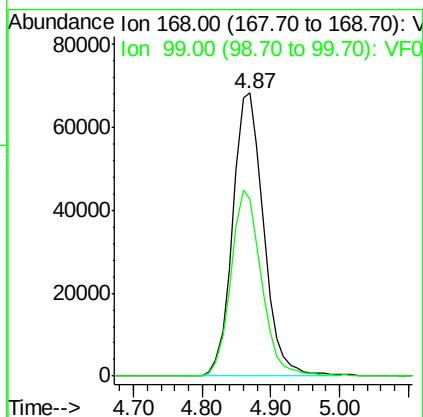
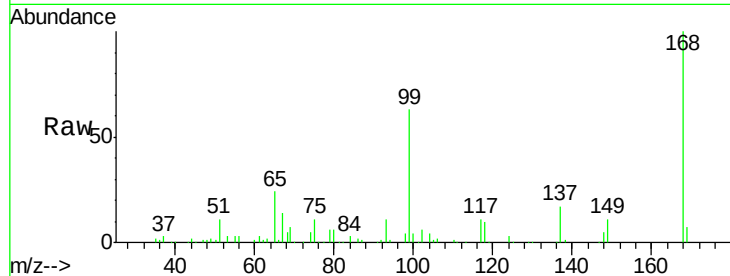




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.87 min Scan# 430
Delta R.T. 0.01 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

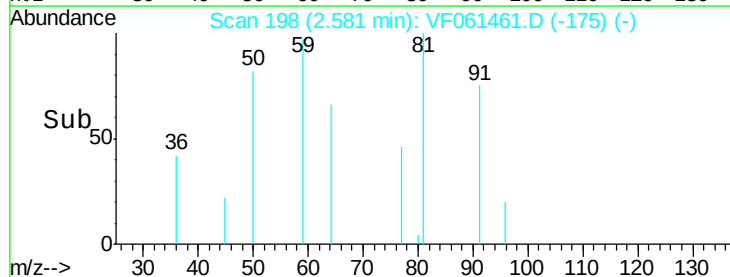
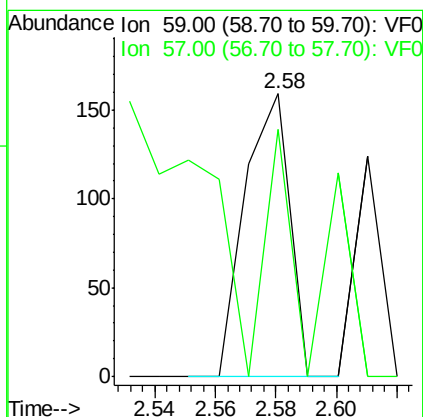
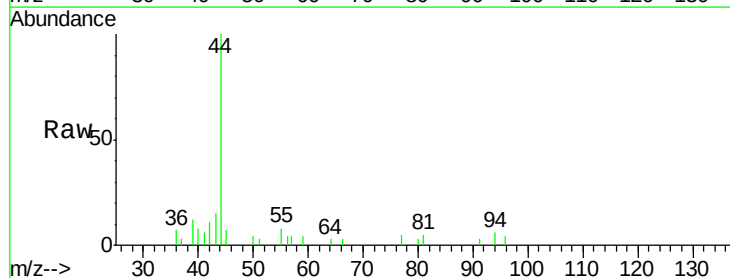
Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-ARE

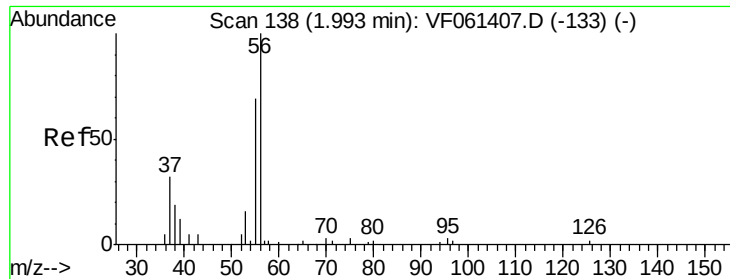
Tot Ion:168 Resp: 212653
Ion Ratio Lower Upper
168 100
99 62.8 53.5 80.3



#11
Tert butyl alcohol
Concen: 1.485 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

Tgt Ion: 59 Resp: 165
Ion Ratio Lower Upper
59 100
57 87.4 11.9 17.9#





#13

Acrolein

Concen: 14.403 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

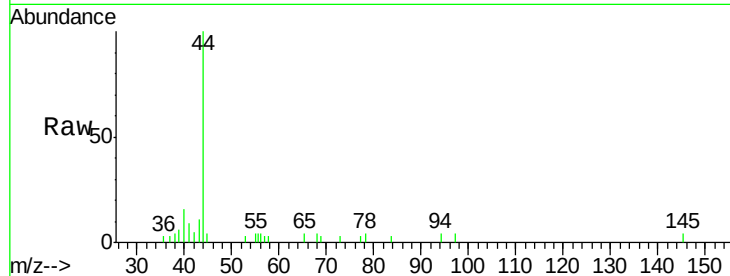
SU-01-011719-ARE

Tot Ion: 56 Resp: 406

Ion Ratio Lower Upper

56 100

55 90.7 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

300

200

100

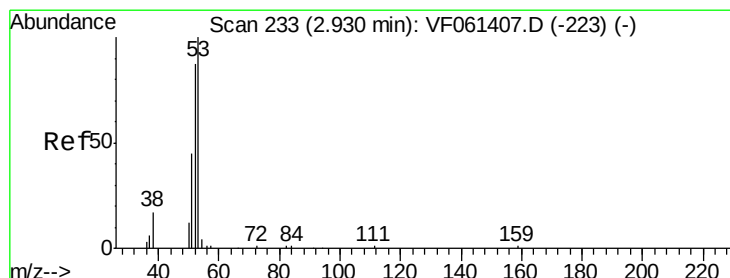
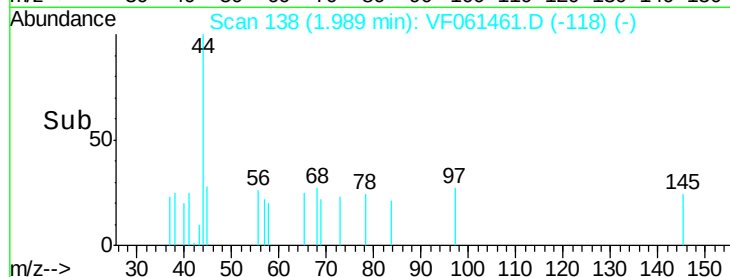
0

1.95

2.00

1.99

Time-->



#15

Acrylonitrile

Concen: 1.015 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

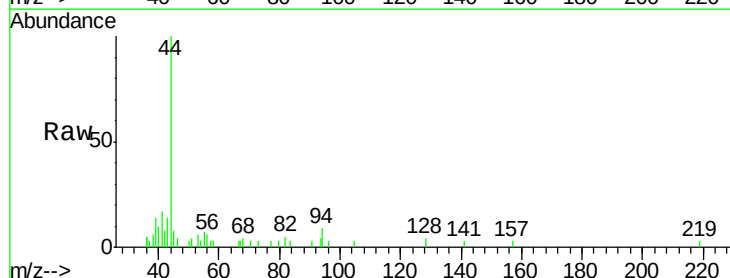
Tgt Ion: 53 Resp: 289

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 76.4 36.8 55.2#



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

300

200

100

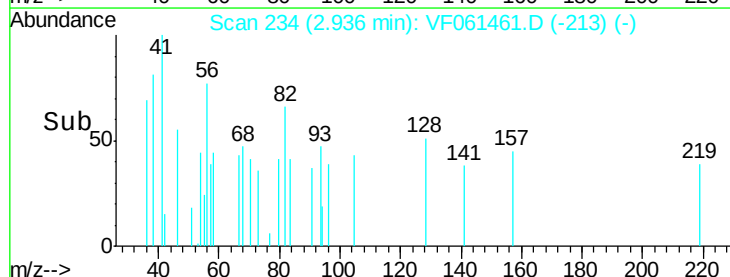
0

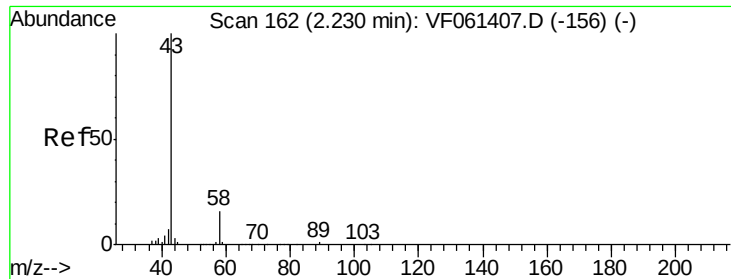
2.92

2.94

2.96

Time-->

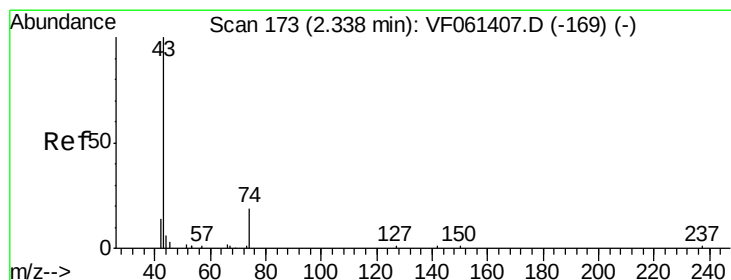
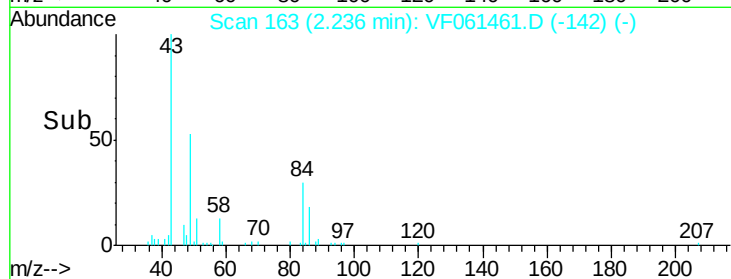
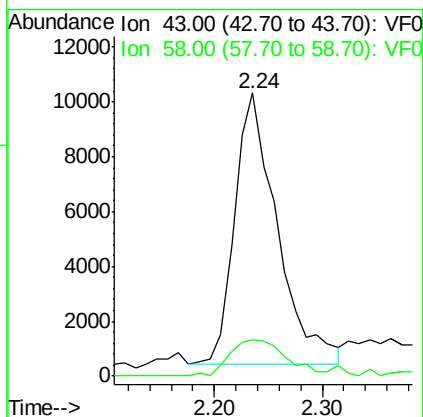
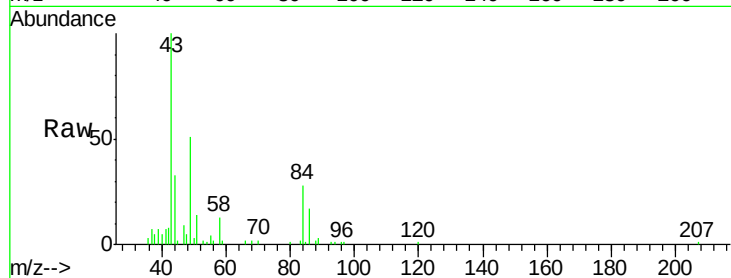




#16
Acetone
Concen: 51.549 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.01 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

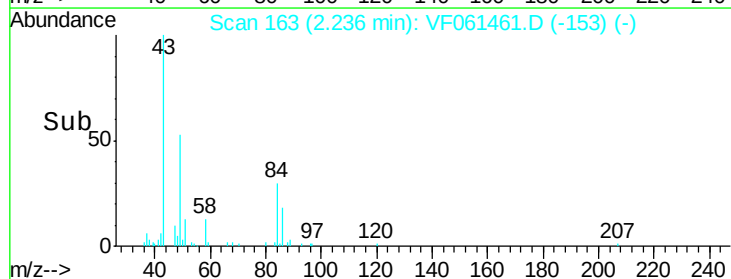
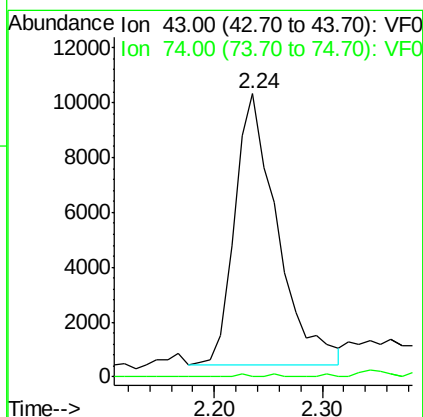
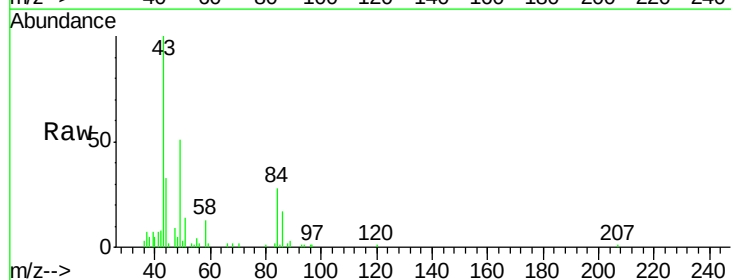
Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-ARE

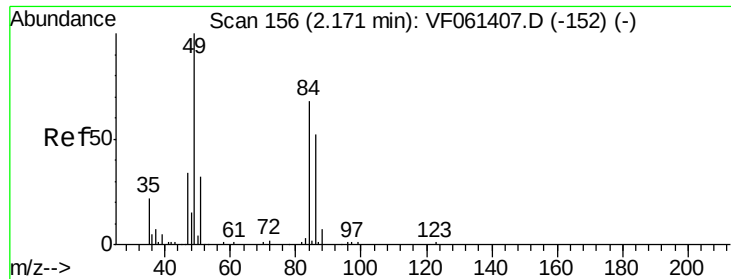
Tot Ion: 43 Resp: 27151
Ion Ratio Lower Upper
43 100
58 12.6 13.3 19.9#



#18
Methyl Acetate
Concen: 25.993 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.10 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

Tgt Ion: 43 Resp: 27151
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#

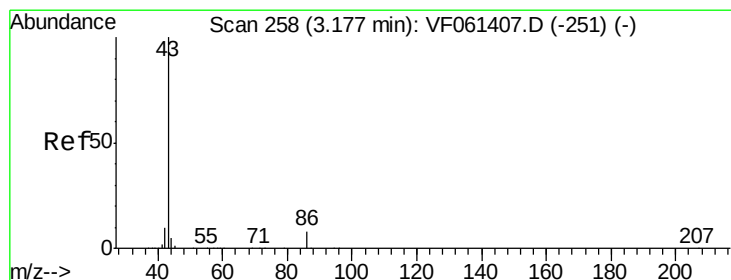
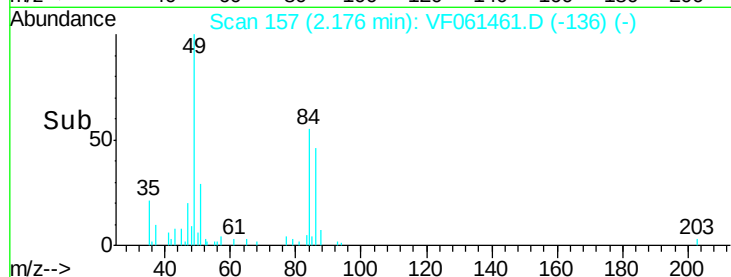
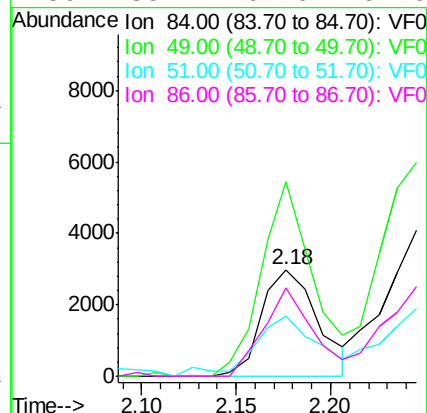
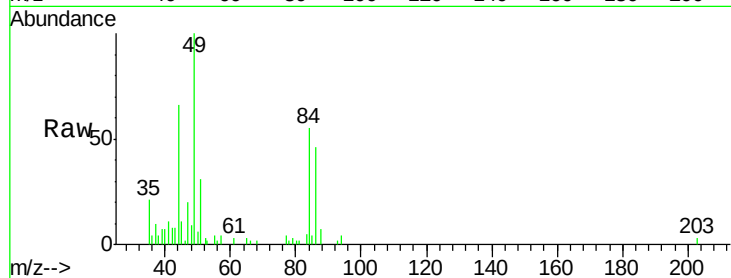




#20
Methylene Chloride
Concen: 1.743 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

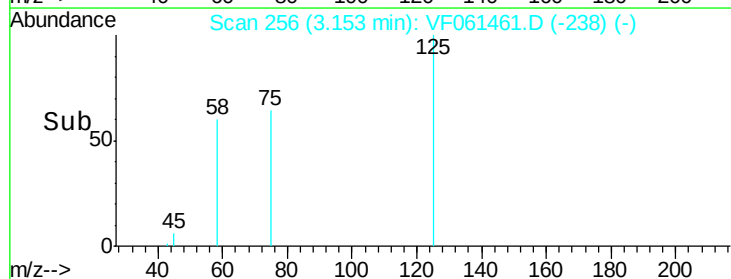
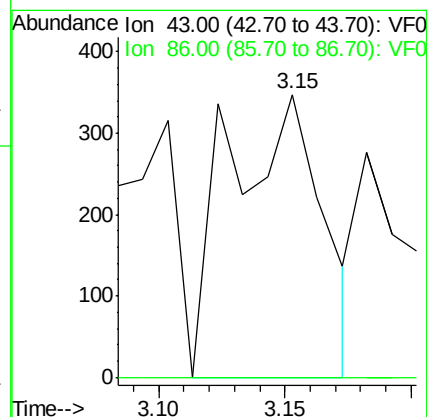
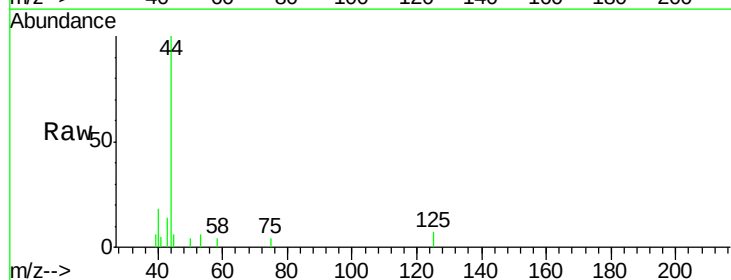
Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-ARE

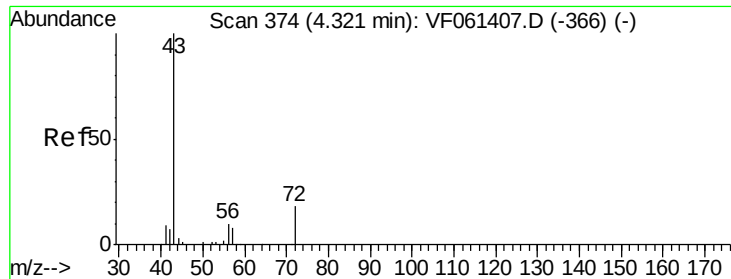
Tot Ion: 84 Resp: 6148
Ion Ratio Lower Upper
84 100
49 182.9 120.0 180.0#
51 56.8 38.6 58.0
86 83.4 61.0 91.6



#23
Vinyl Acetate
Concen: 3.493 ug/l
RT: 3.15 min Scan# 256
Delta R.T. -0.02 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 1.248 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.06 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

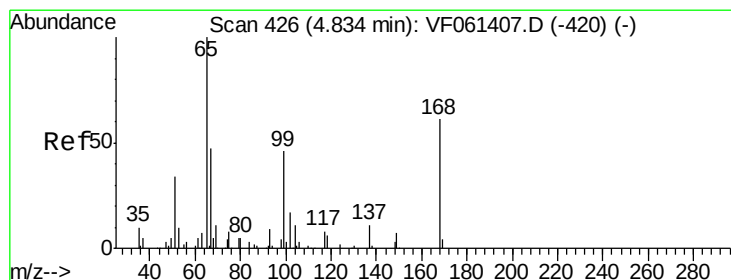
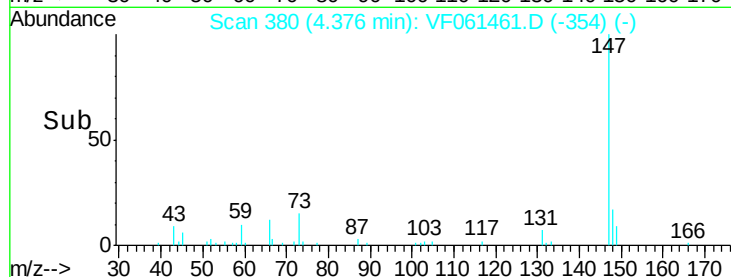
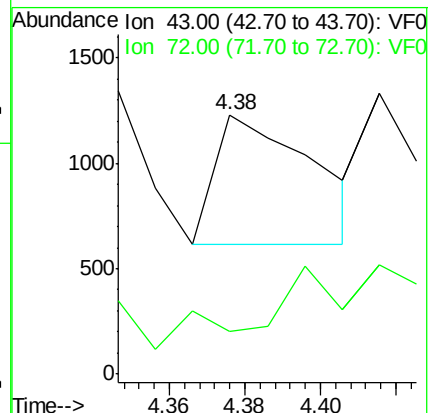
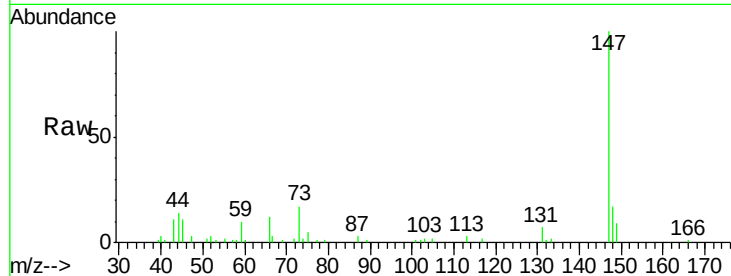
Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-ARE

Tot Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

72 16.7 15.8 23.6



#33

1,2-Dichloroethane-d4

Concen: 60.757 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061461.D

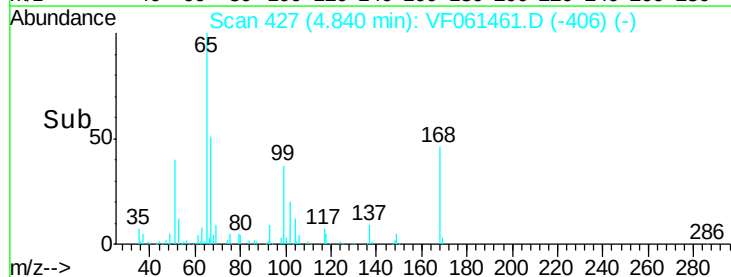
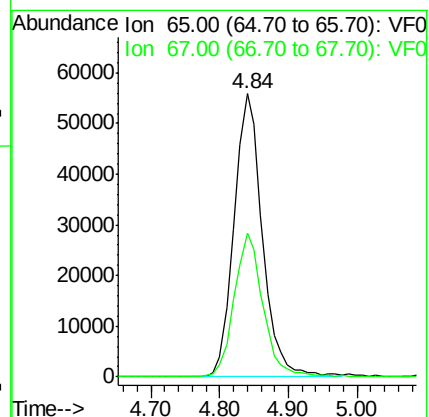
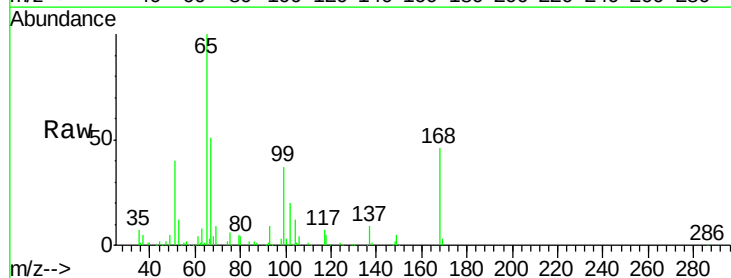
Acq: 18 Jan 2019 16:04

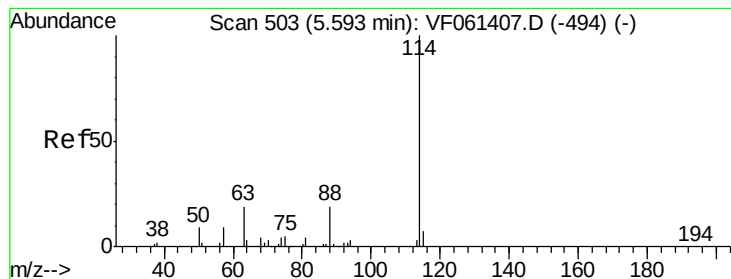
Tgt Ion: 65 Resp: 159516

Ion Ratio Lower Upper

65 100

67 50.9 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

SU-01-011719-ARE

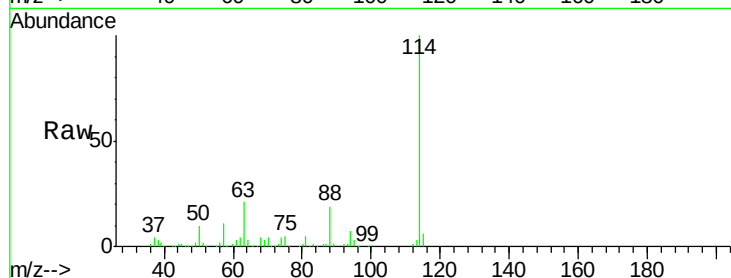
Tot Ion:114 Resp: 370465

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.0

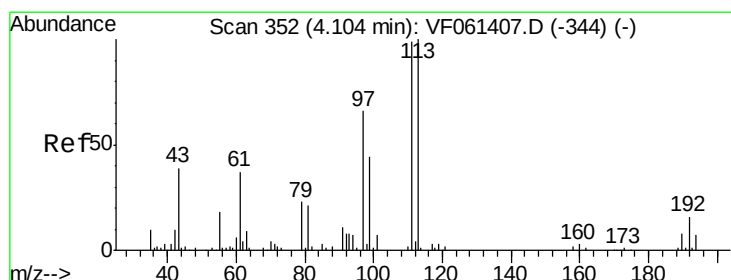
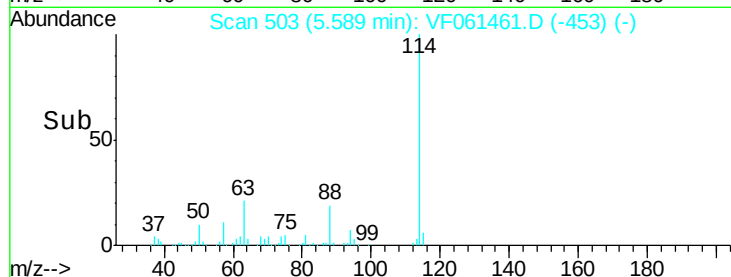
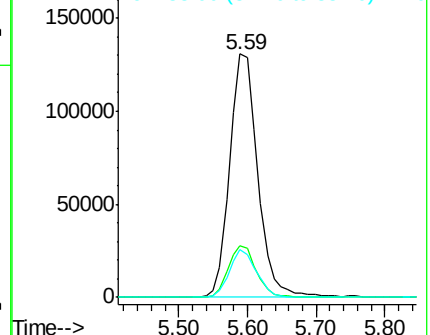
88 19.5 0.0 37.4



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: 58.613 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

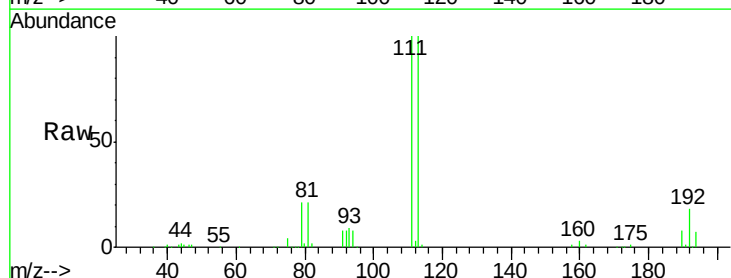
Tgt Ion:113 Resp: 171342

Ion Ratio Lower Upper

113 100

111 99.8 79.4 119.0

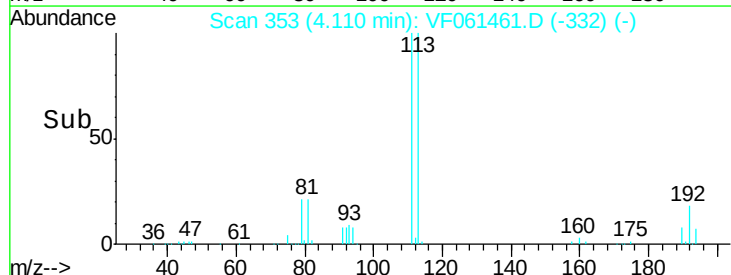
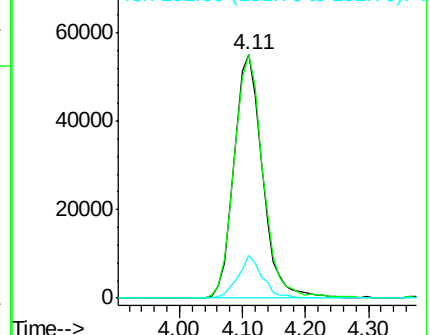
192 17.6 12.4 18.6

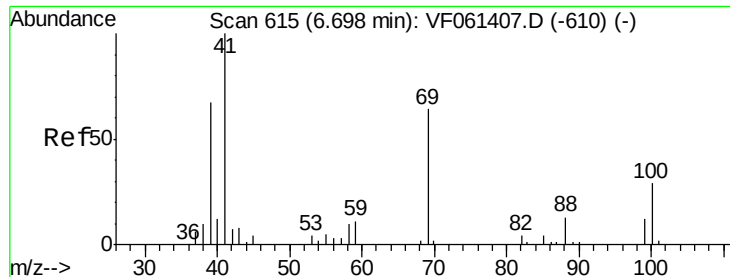


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.09 min Scan# 655

Delta R.T. 0.39 min

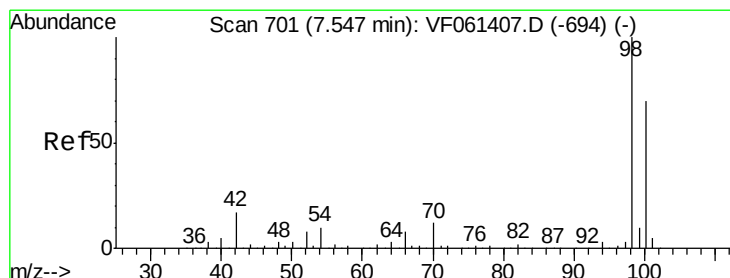
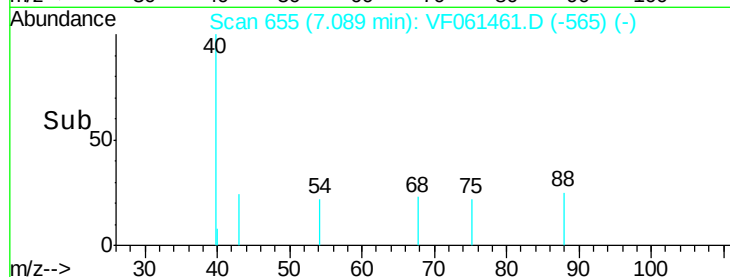
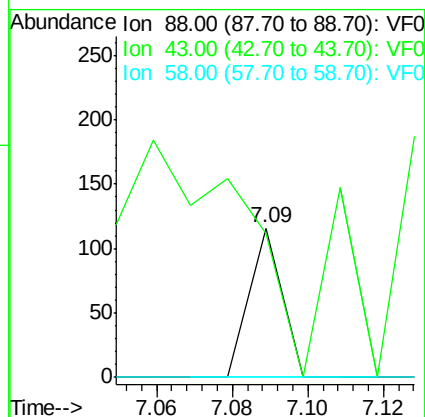
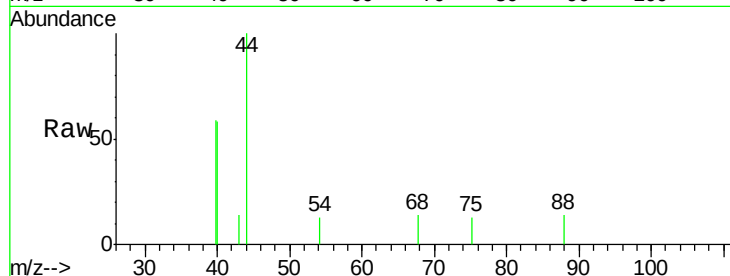
Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :
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Tot Ion: 88 Resp: 69

Ion	Ratio	Lower	Upper
88	100		
43	96.6	55.5	83.3#
58	0.0	59.9	89.9#



#50

Toluene-d8

Concen: 43.131 ug/l

RT: 7.55 min Scan# 702

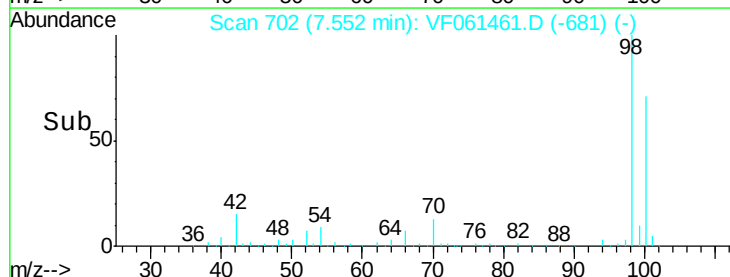
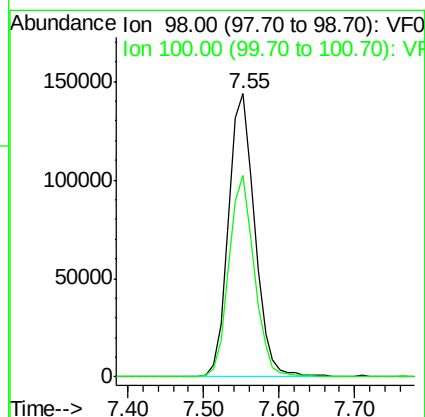
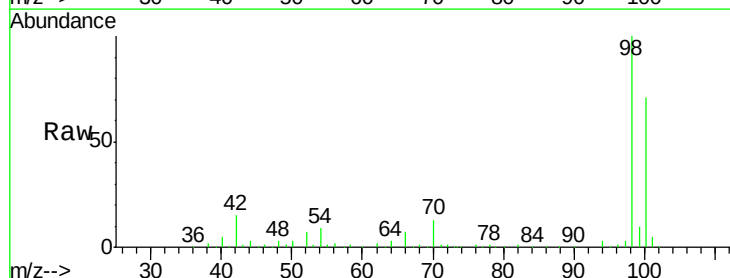
Delta R.T. 0.01 min

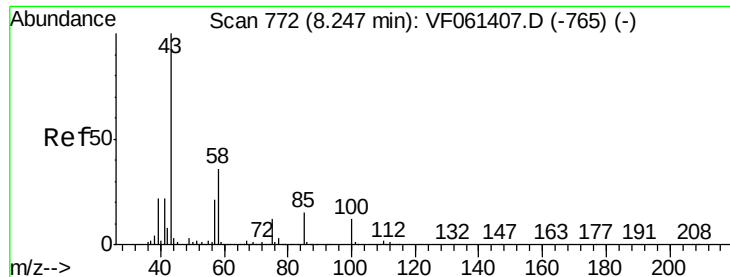
Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Tgt Ion: 98 Resp: 345452

Ion	Ratio	Lower	Upper
98	100		
100	71.2	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 1.589 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

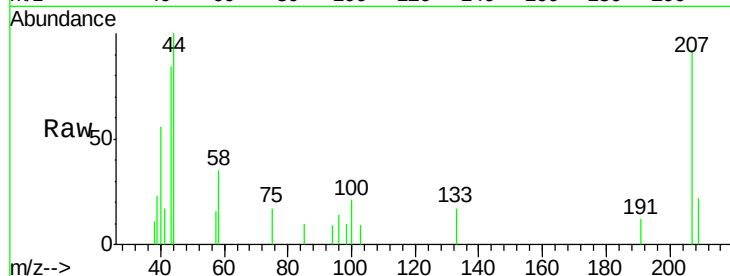
SU-01-011719-ARE

Tot Ion: 43 Resp: 2517

Ion Ratio Lower Upper

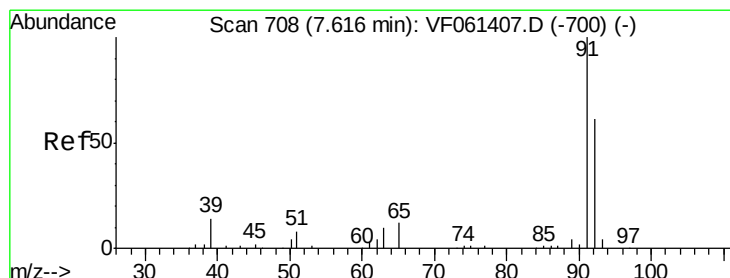
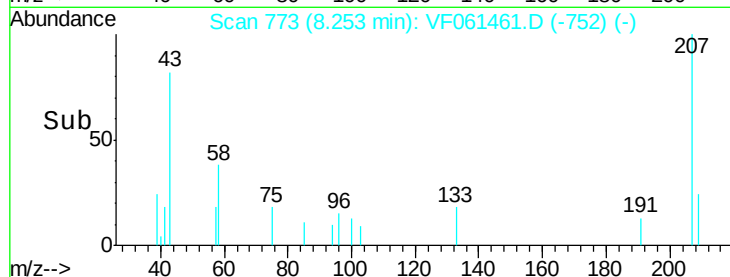
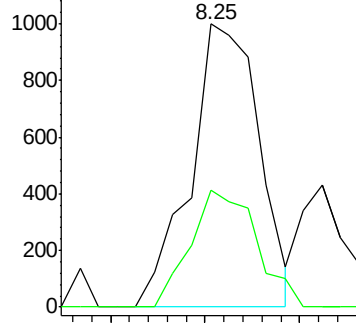
43 100

58 41.2 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.853 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061461.D

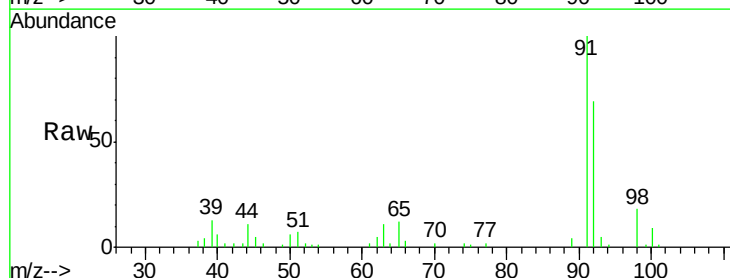
Acq: 18 Jan 2019 16:04

Tgt Ion: 92 Resp: 17955

Ion Ratio Lower Upper

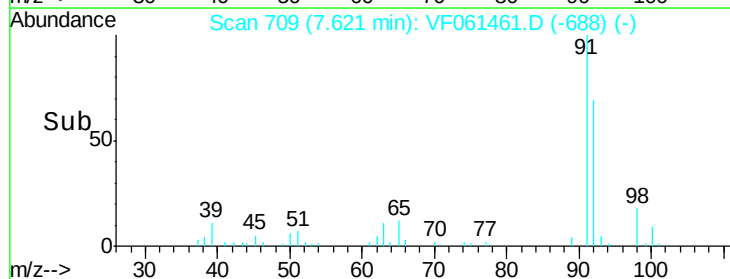
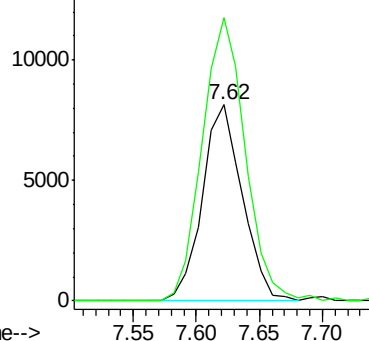
92 100

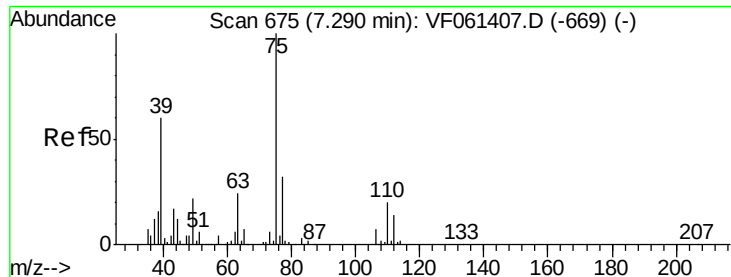
91 144.2 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 28.056 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

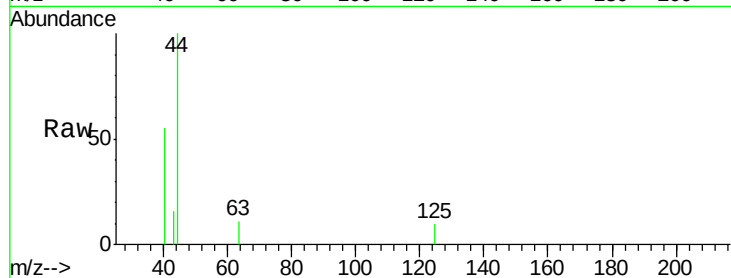
SU-01-011719-ARE

Tot Ion: 63 Resp: 132

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

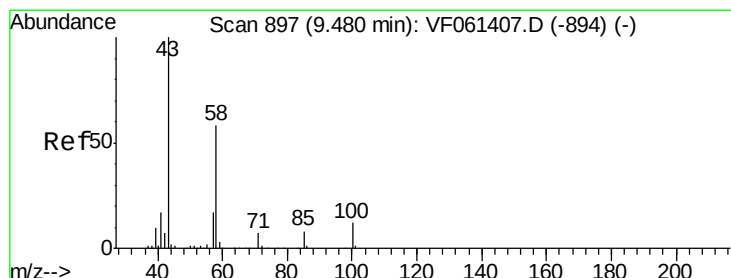
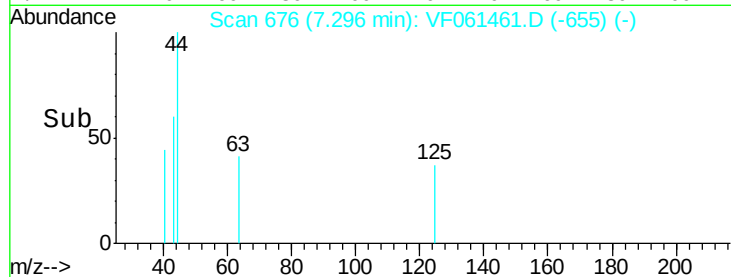
7.30

100

50

0

Time-->



#59

2-Hexanone

Concen: 1.676 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061461.D

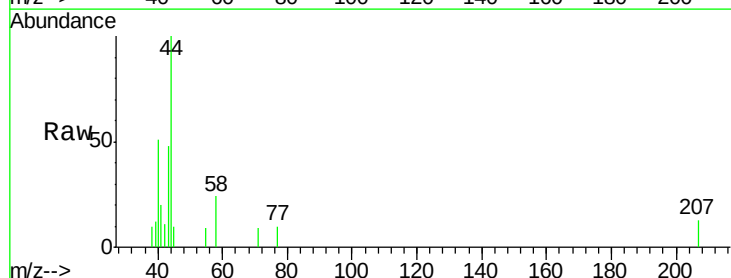
Acq: 18 Jan 2019 16:04

Tgt Ion: 43 Resp: 1851

Ion Ratio Lower Upper

43 100

58 48.7 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.50

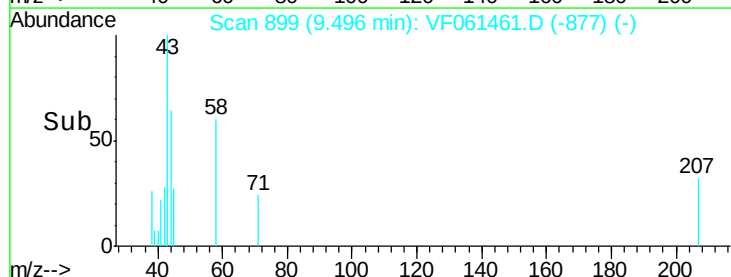
600

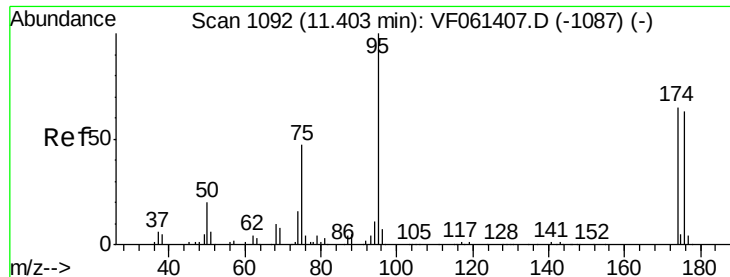
400

200

0

Time-->

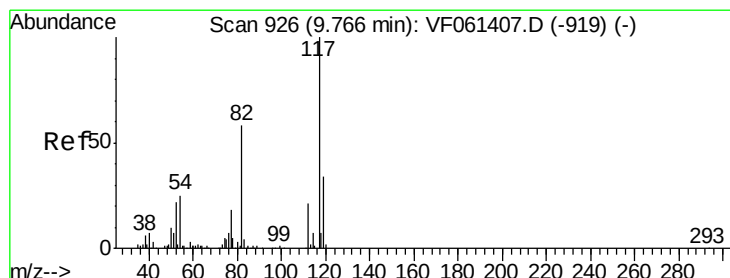
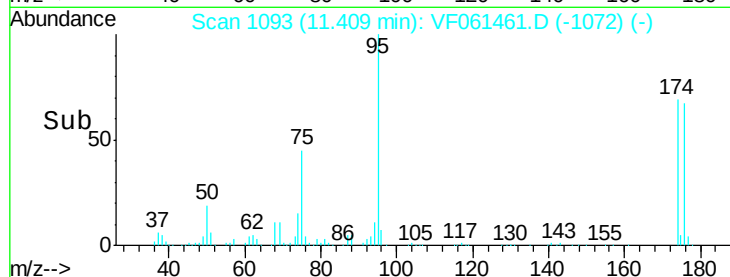
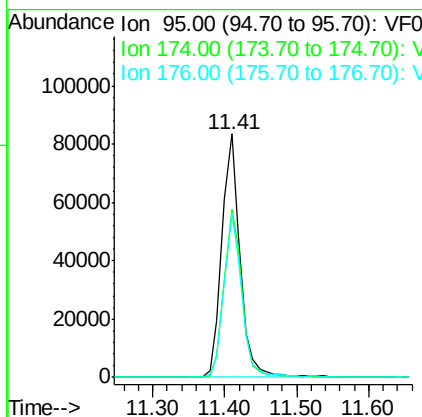
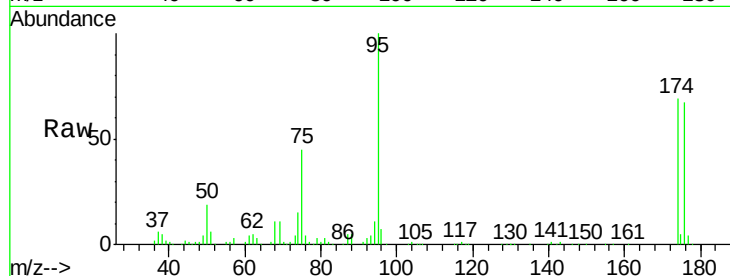




#62
4-Bromofluorobenzene
Concen: 39.039 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

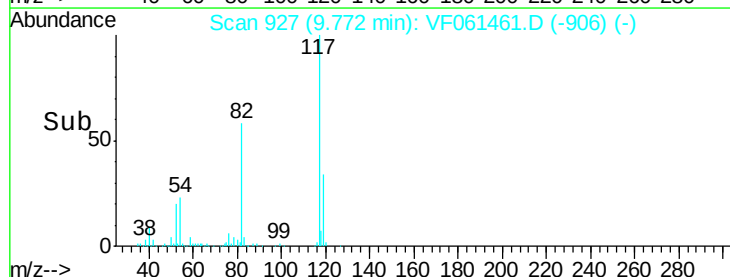
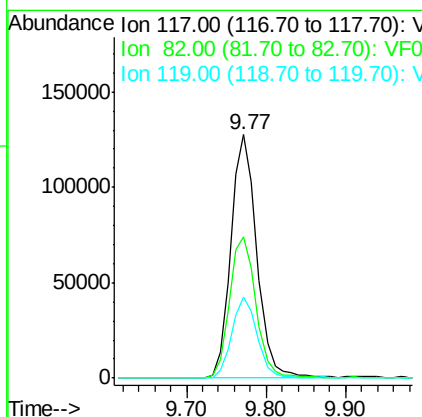
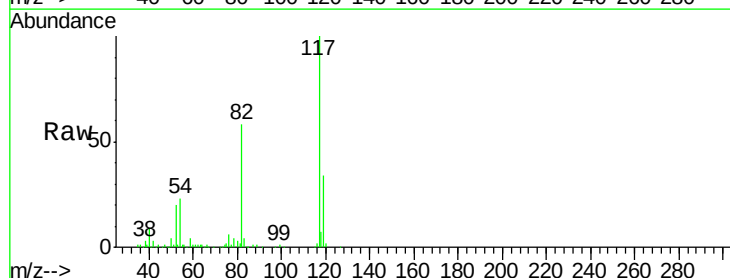
Instrument :
MSVOA_F
ClientSampleId :
SU-01-011719-ARE

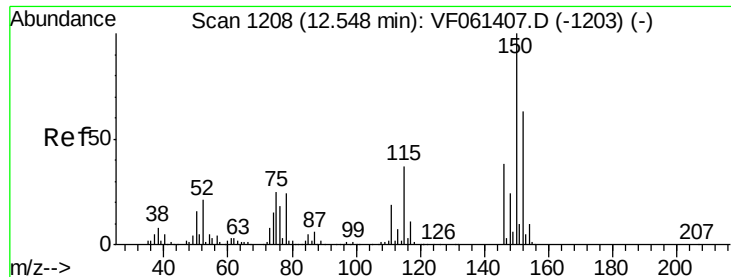
Tot Ion: 95 Resp: 146091
Ion Ratio Lower Upper
95 100
174 69.2 0.0 130.4
176 67.3 0.0 126.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061461.D
Acq: 18 Jan 2019 16:04

Tgt Ion: 117 Resp: 290564
Ion Ratio Lower Upper
117 100
82 58.1 46.4 69.6
119 33.5 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061461.D

Acq: 18 Jan 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

SU-01-011719-ARE

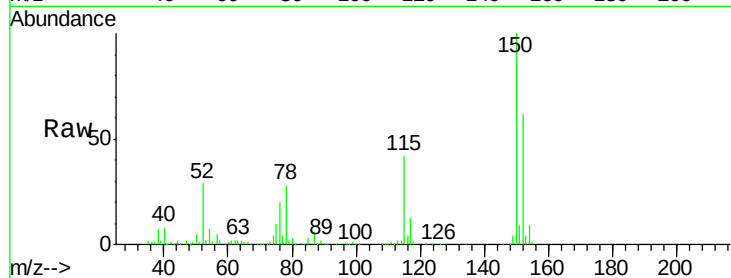
Tot Ion:152 Resp: 108715

Ion Ratio Lower Upper

152 100

115 67.2 30.0 90.0

150 161.9 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

