

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061511.D
 Acq On : 24 Jan 2019 20:28
 Operator : VA/AP
 Sample : K1223-08RE
 Misc : 4.10g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-TRE

Quant Time: Jan 25 04:10:56 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	4.89	168	142531	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.61	114	247892	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	153376	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	36823	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	80715	45.87	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	91.74%	
35) Dibromofluoromethane	4.14	113	90014	46.02	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	92.04%	
50) Toluene-d8	7.58	98	190640	35.57	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	71.14%	
62) 4-Bromofluorobenzene	11.42	95	44225	17.66	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	35.32%	

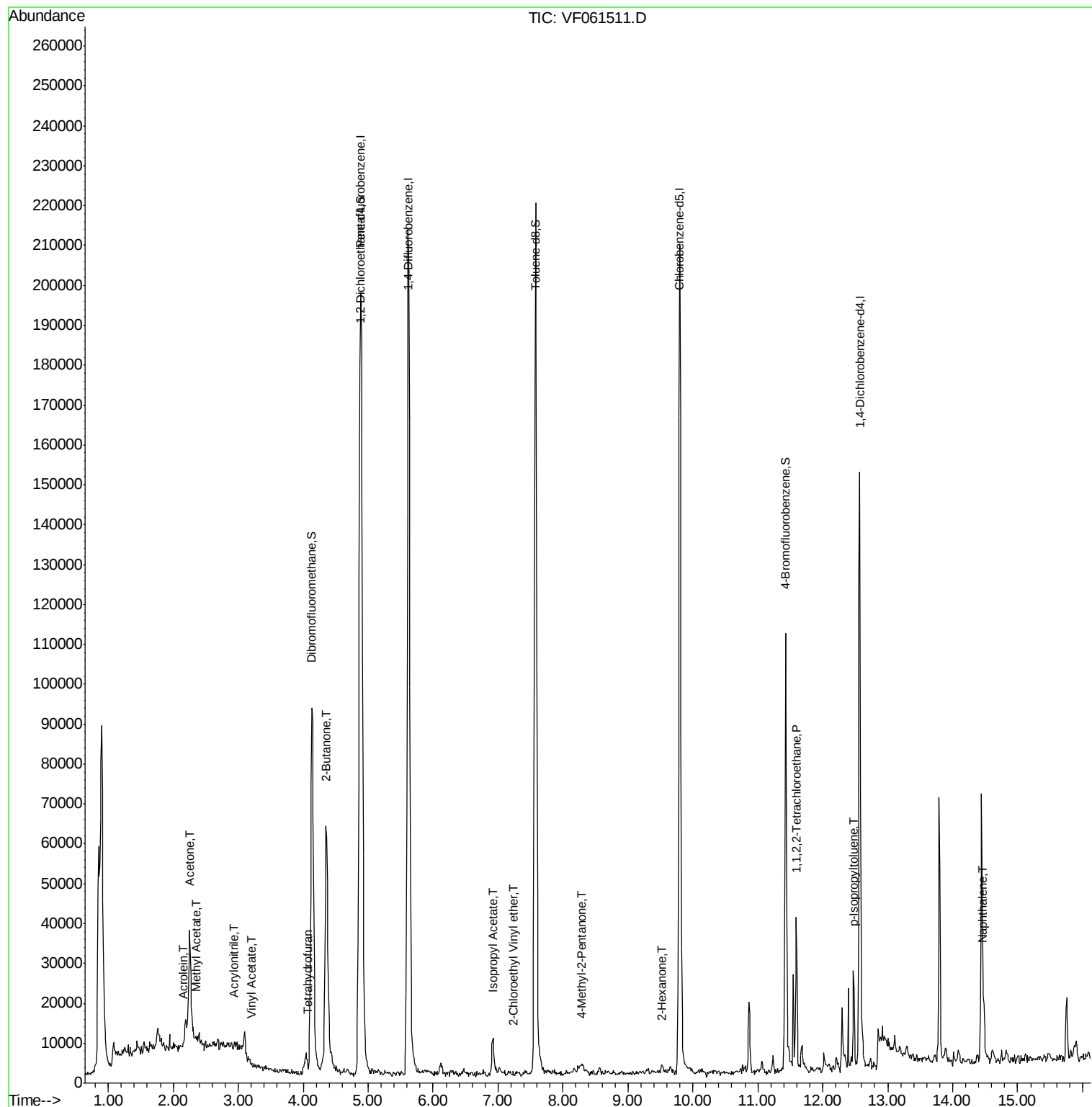
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.14	56	326	15.208	ug/l	98
14) Allyl chloride	2.11	41	126	Below Cal	#	57
15) Acrylonitrile	2.95	53	512	2.683	ug/l #	27
16) Acetone	2.25	43	45758	129.618	ug/l	99
18) Methyl Acetate	2.35	43	6385	9.120	ug/l #	78
23) Vinyl Acetate	3.22	43	490	3.438	ug/l #	78
25) 2-Butanone	4.35	43	131790	224.491	ug/l	96
29) Tetrahydrofuran	4.07	42	375	1.483	ug/l #	38
43) Isopropyl Acetate	6.92	43	16700	11.581	ug/l #	51
49) 1,4-Dioxane	6.27	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.29	43	2765	2.608	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.24	63	60	27.884	ug/l #	47
59) 2-Hexanone	9.51	43	2759	3.732	ug/l	91
75) 1,1,2,2-Tetrachloroethane	11.59	83	586	1.098	ug/l #	24
86) p-Isopropyltoluene	12.47	119	12829	4.600	ug/l	95
95) Naphthalene	14.47	128	2388	1.516	ug/l #	93

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.03 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

Instrument :

MSVOA_F

ClientSampleId :

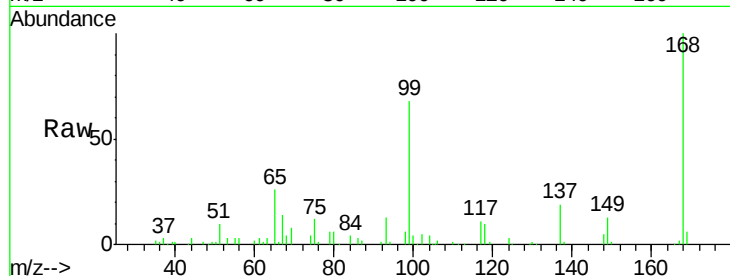
TS-TRE

Tot Ion:168 Resp: 142531

Ion Ratio Lower Upper

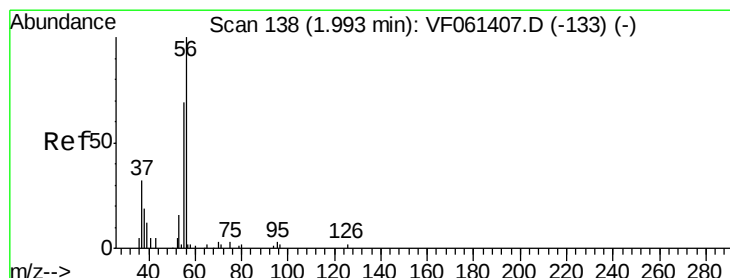
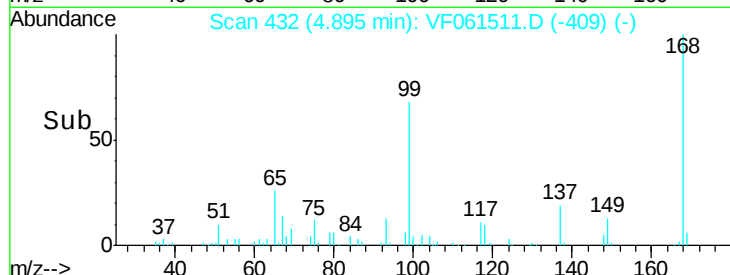
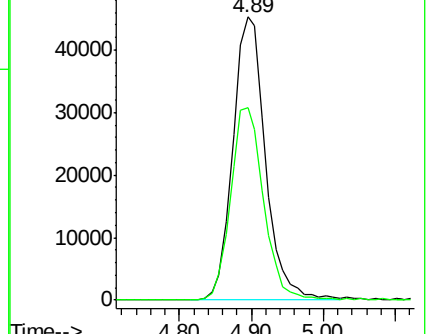
168 100

99 68.1 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 15.208 ug/l

RT: 2.14 min Scan# 153

Delta R.T. 0.15 min

Lab File: VF061511.D

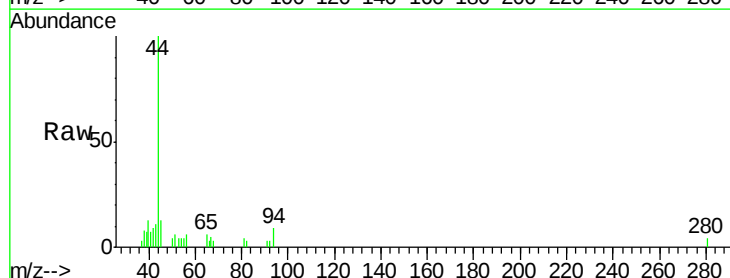
Acq: 24 Jan 2019 20:28

Tgt Ion: 56 Resp: 326

Ion Ratio Lower Upper

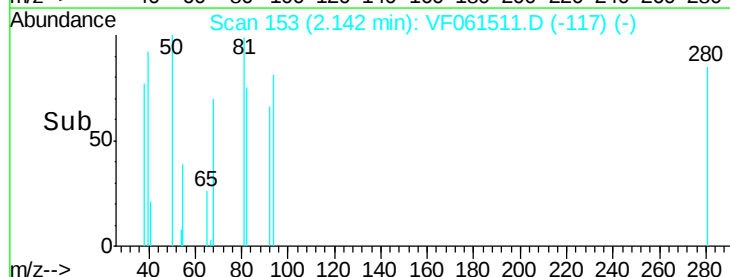
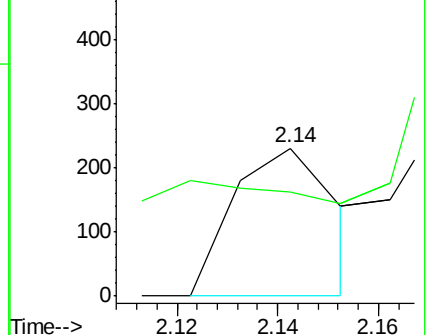
56 100

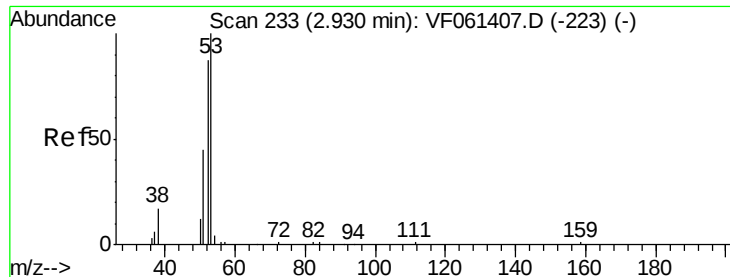
55 70.0 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 2.683 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

Instrument :

MSVOA_F

ClientSampleId :

TS-TRE

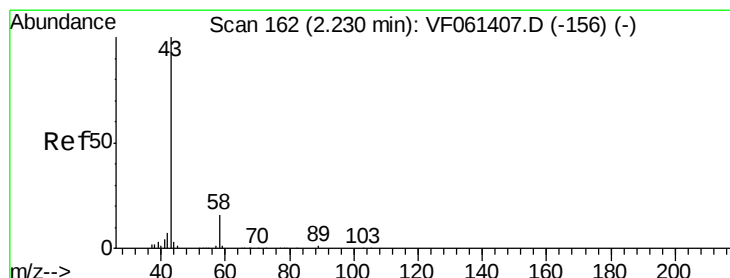
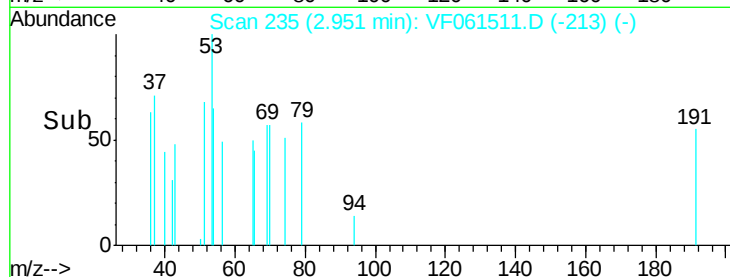
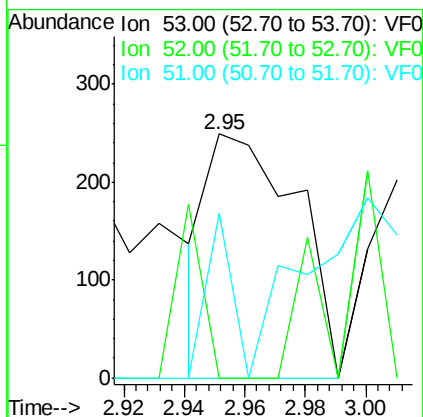
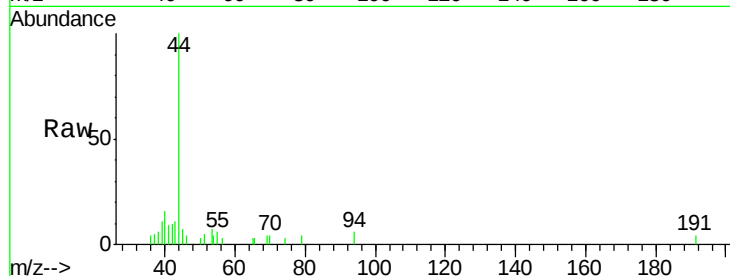
Tot Ion: 53 Resp: 512

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 67.9 36.8 55.2#



#16

Acetone

Concen: 129.618 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061511.D

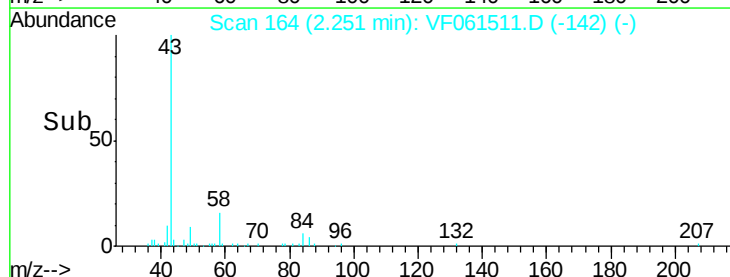
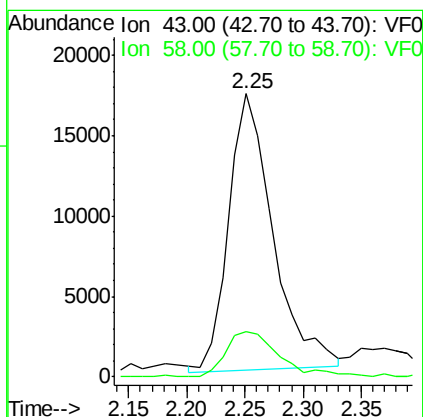
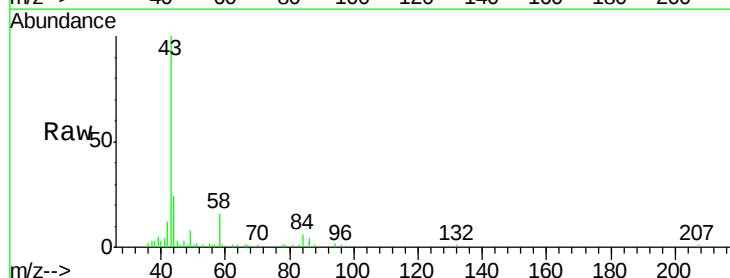
Acq: 24 Jan 2019 20:28

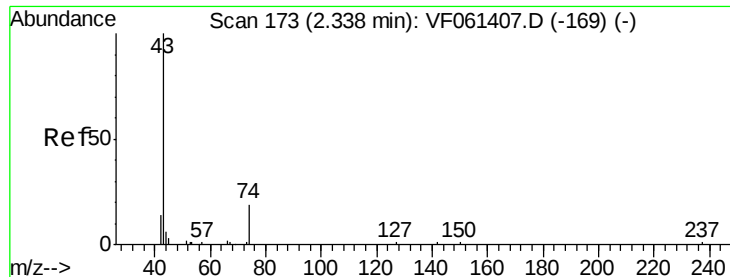
Tgt Ion: 43 Resp: 45758

Ion Ratio Lower Upper

43 100

58 16.0 13.3 19.9

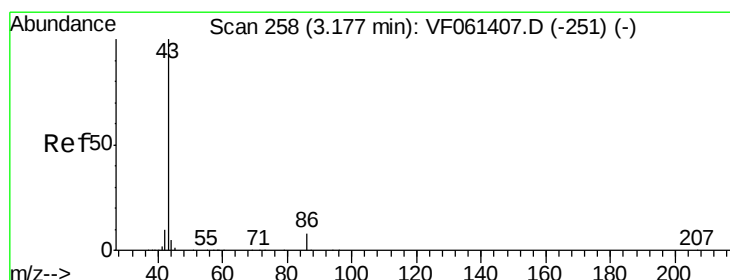
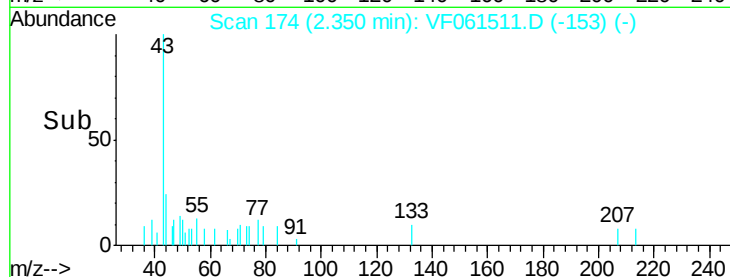
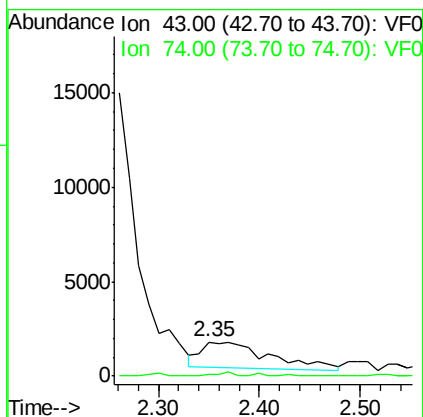
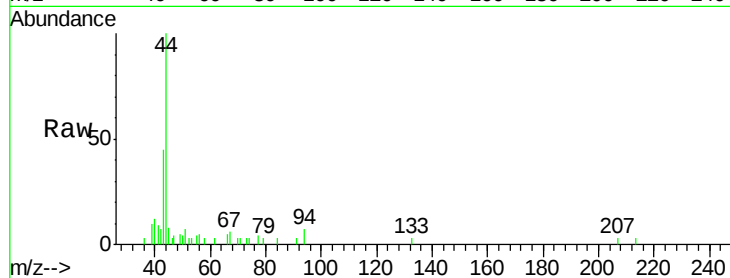




#18
Methvl Acetate
Concen: 9.120 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

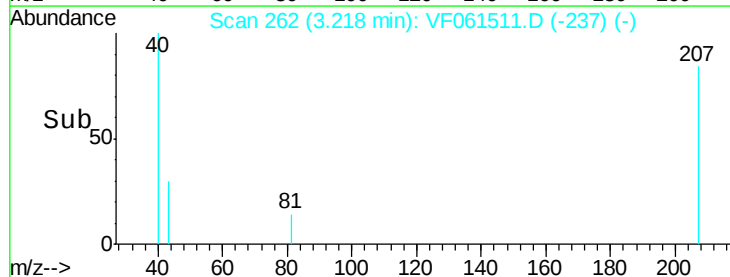
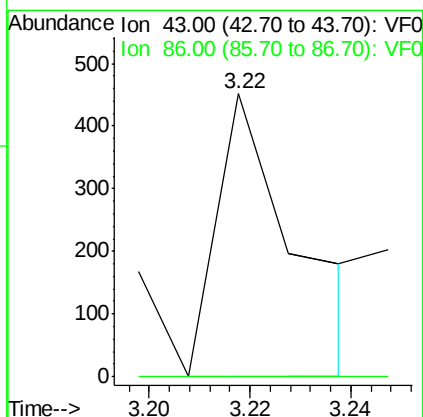
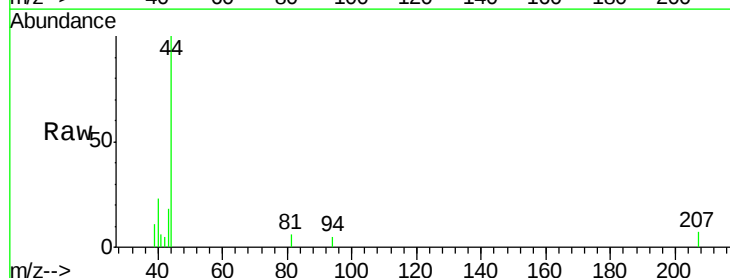
Instrument :
MSVOA_F
ClientSampleId :
TS-TRE

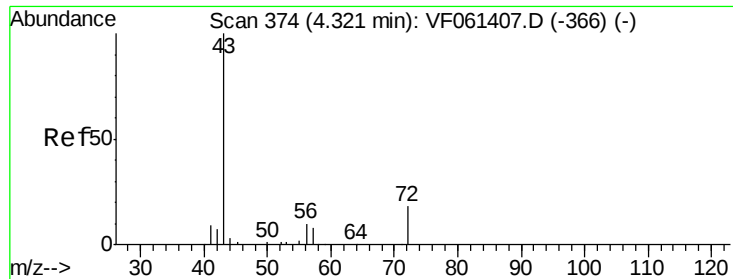
Tot Ion: 43 Resp: 6385
Ion Ratio Lower Upper
43 100
74 7.1 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.438 ug/l
RT: 3.22 min Scan# 262
Delta R.T. 0.04 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

Tgt Ion: 43 Resp: 490
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#

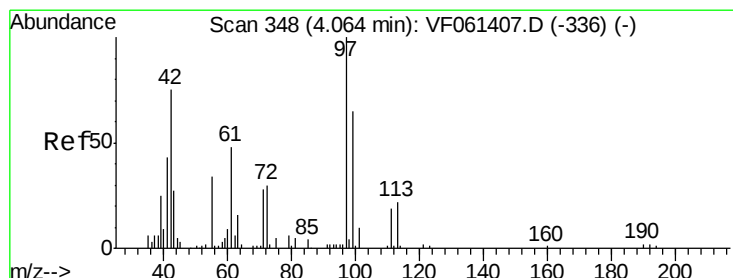
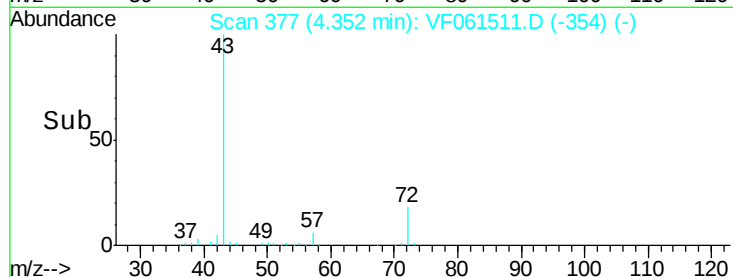
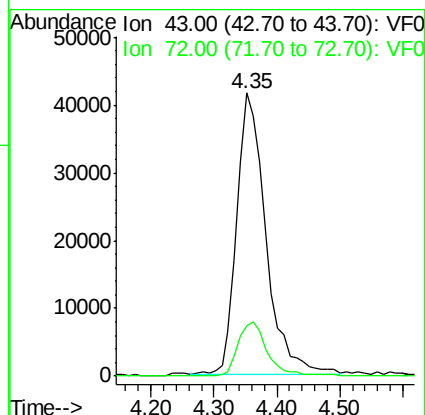
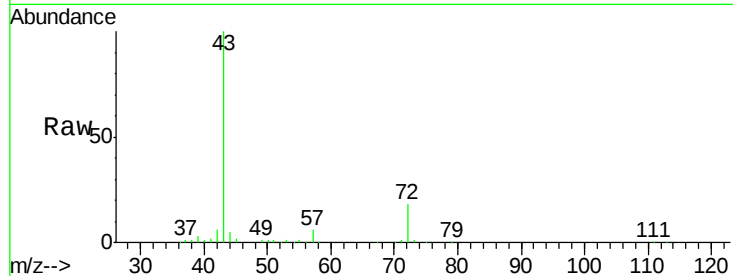




#25
2-Butanone
Concen: 224.491 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.03 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

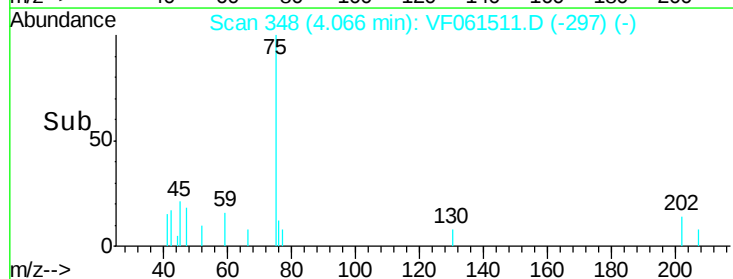
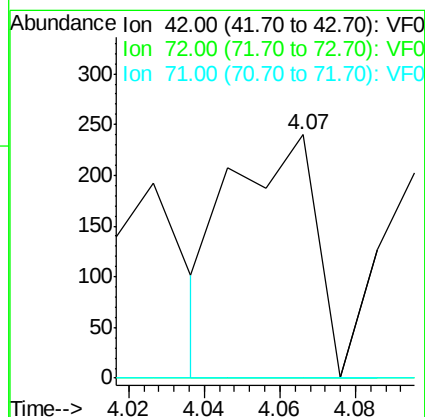
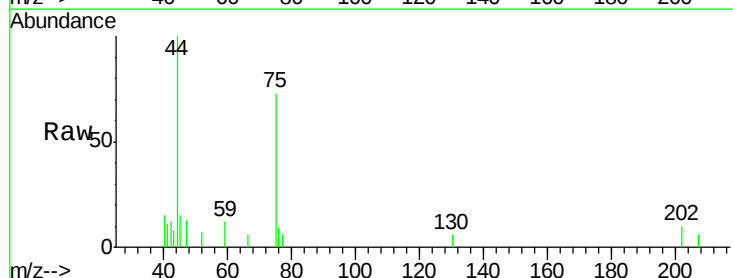
Instrument :
MSVOA_F
ClientSampleId :
TS-TRE

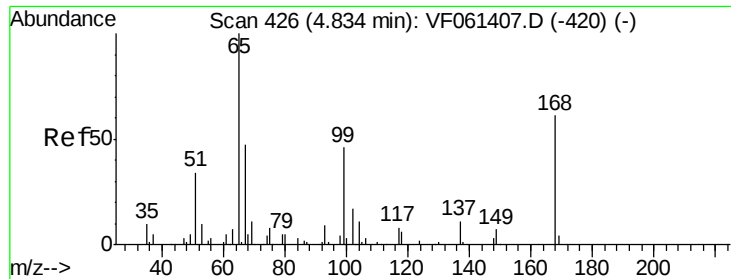
Tot Ion: 43 Resp: 131790
Ion Ratio Lower Upper
43 100
72 17.9 15.8 23.6



#29
Tetrahydrofuran
Concen: 1.483 ug/l
RT: 4.07 min Scan# 348
Delta R.T. 0.00 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

Tgt Ion: 42 Resp: 375
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 0.0 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 45.868 ug/l

RT: 4.87 min Scan# 429

Delta R.T. 0.03 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

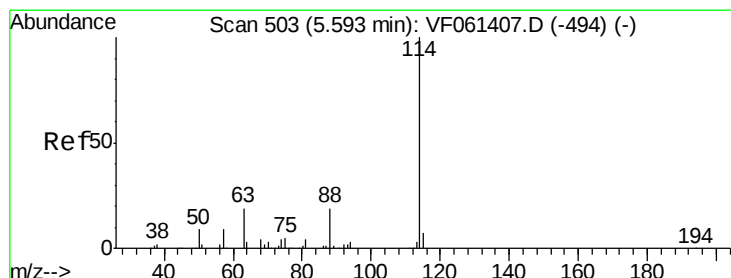
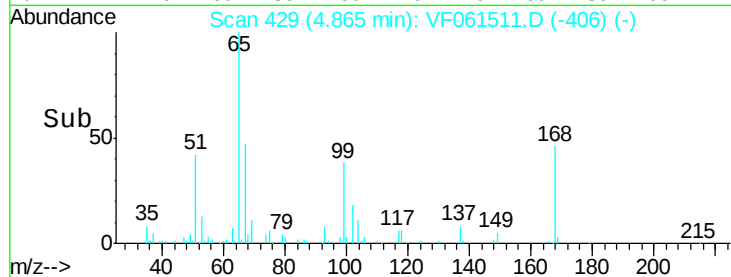
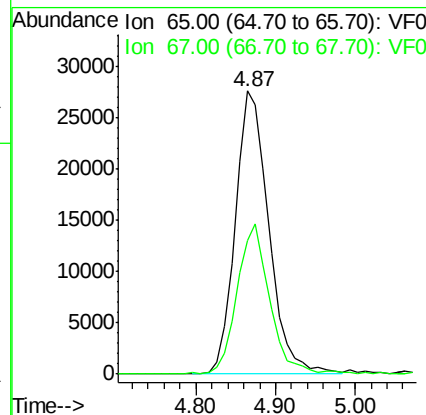
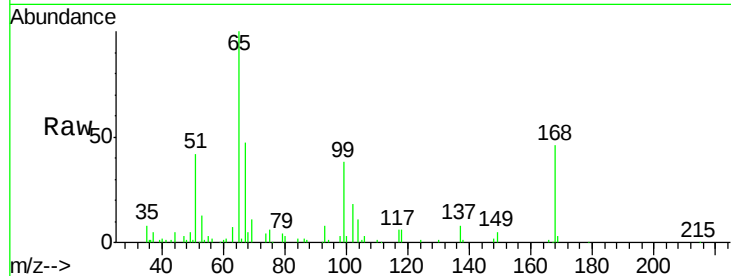
Instrument :
MSVOA_F
ClientSampleId :
TS-TRE

Tot Ion: 65 Resp: 80715

Ion Ratio Lower Upper

65 100

67 47.3 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

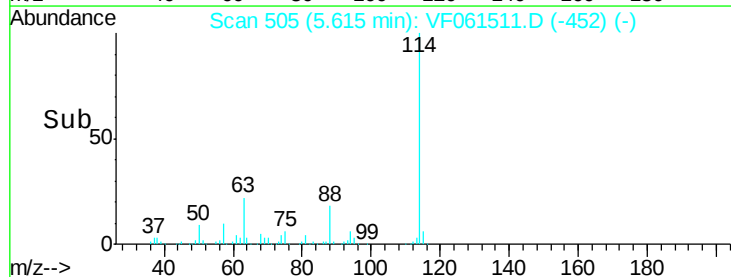
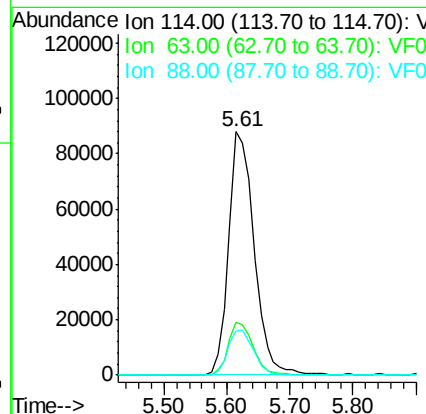
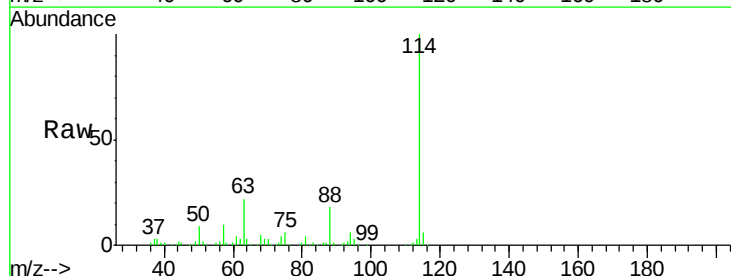
Tgt Ion: 114 Resp: 247892

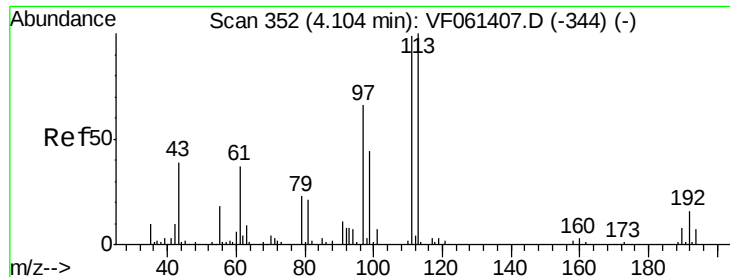
Ion Ratio Lower Upper

114 100

63 22.0 0.0 39.0

88 17.8 0.0 37.4

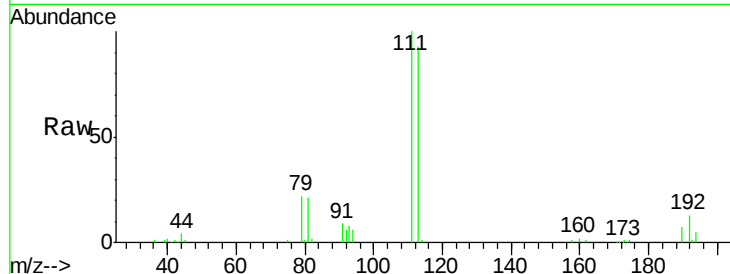




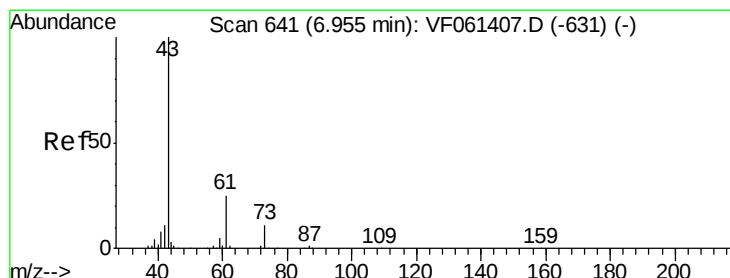
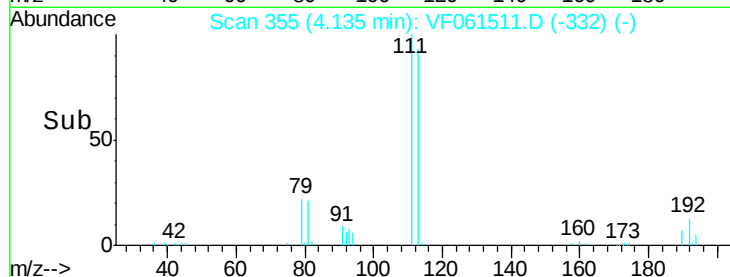
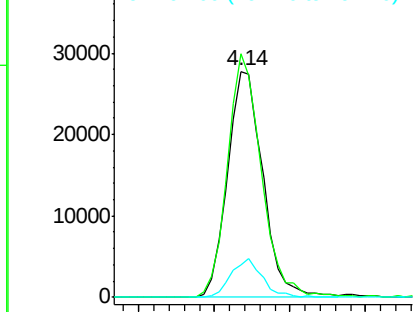
#35
 Dibromofluoromethane
 Concen: 46.018 ug/l
 RT: 4.14 min Scan# 355
 Delta R.T. 0.03 min
 Lab File: VF061511.D
 Acq: 24 Jan 2019 20:28

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-TRE

Tot Ion:113 Resp: 90014
 Ion Ratio Lower Upper
 113 100
 111 107.8 79.4 119.0
 192 14.1 12.4 18.6

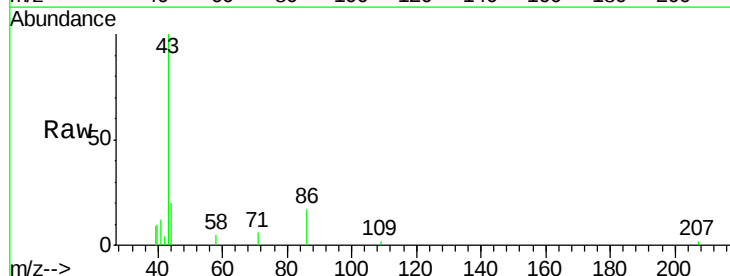


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

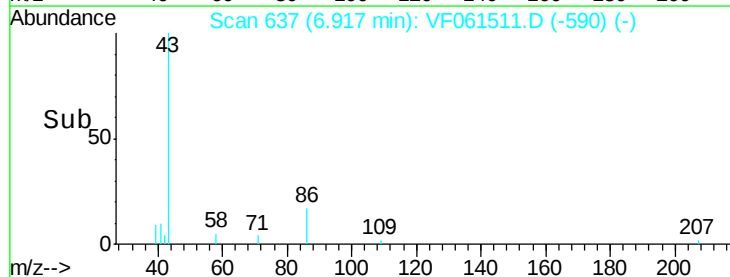
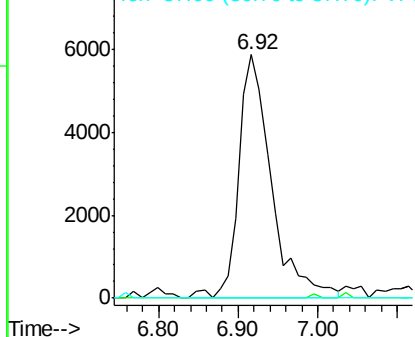


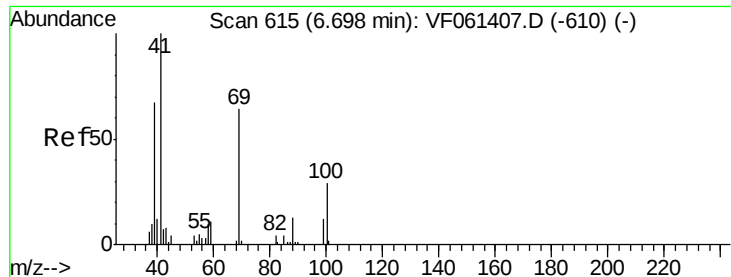
#43
 Isopropyl Acetate
 Concen: 11.581 ug/l
 RT: 6.92 min Scan# 637
 Delta R.T. -0.04 min
 Lab File: VF061511.D
 Acq: 24 Jan 2019 20:28

Tgt Ion: 43 Resp: 16700
 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: Below Cal

RT: 6.27 min Scan# 571

Delta R.T. -0.43 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

Instrument :

MSVOA_F

ClientSampleId :

TS-TRE

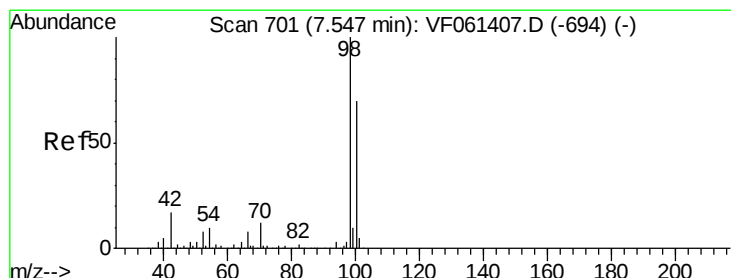
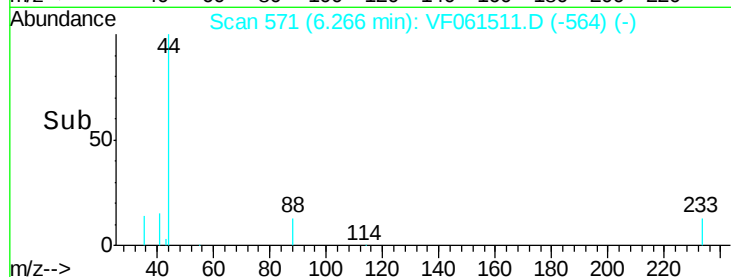
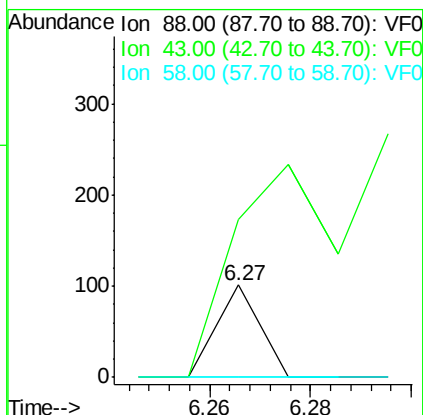
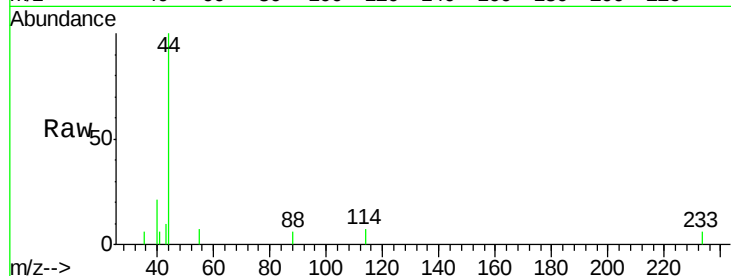
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 171.3 55.5 83.3#

58 0.0 59.9 89.9#



#50

Toluene-d8

Concen: 35.572 ug/l

RT: 7.58 min Scan# 704

Delta R.T. 0.03 min

Lab File: VF061511.D

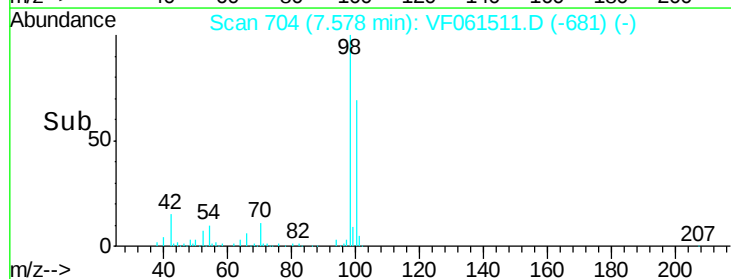
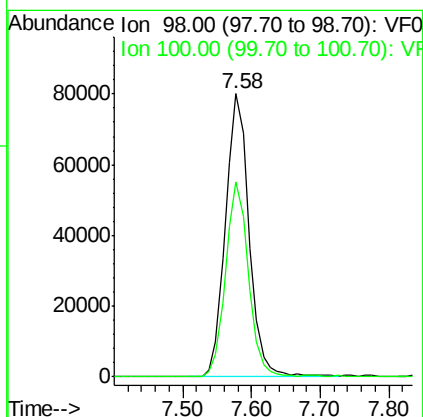
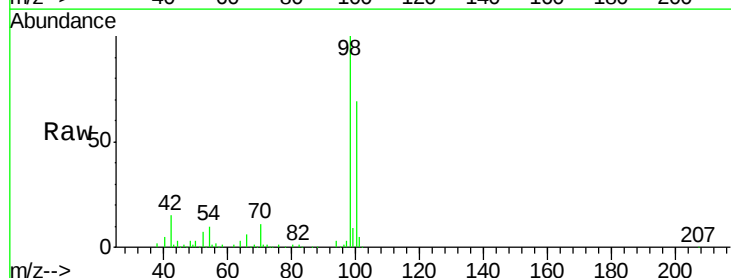
Acq: 24 Jan 2019 20:28

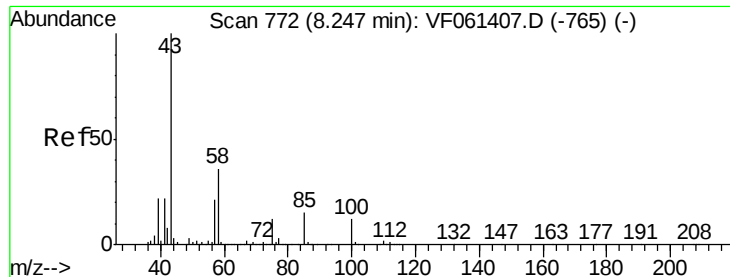
Tgt Ion: 98 Resp: 190640

Ion Ratio Lower Upper

98 100

100 68.9 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 2.608 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.04 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

Instrument :

MSVOA_F

ClientSampleId :

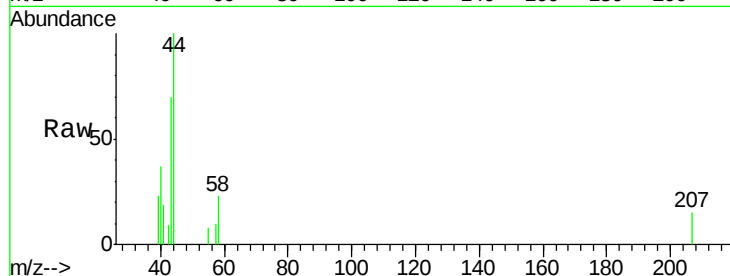
TS-TRE

Tot Ion: 43 Resp: 2765

Ion Ratio Lower Upper

43 100

58 33.5 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

1200

1000

800

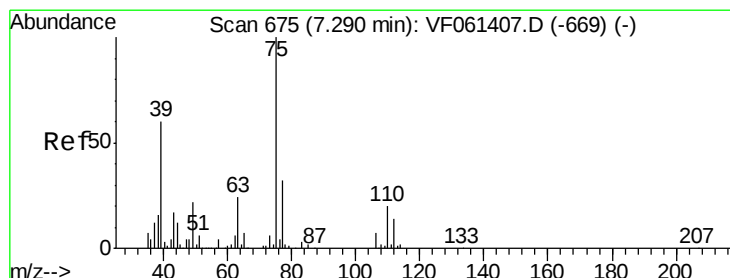
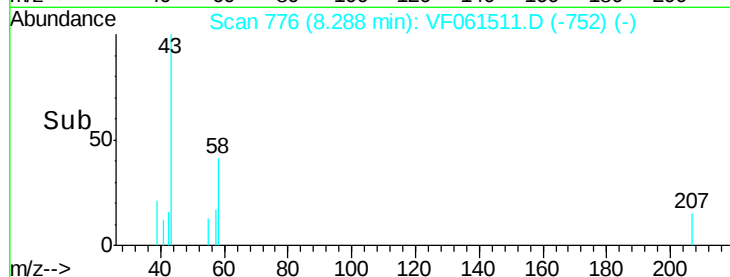
600

400

200

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 27.884 ug/l

RT: 7.24 min Scan# 670

Delta R.T. -0.05 min

Lab File: VF061511.D

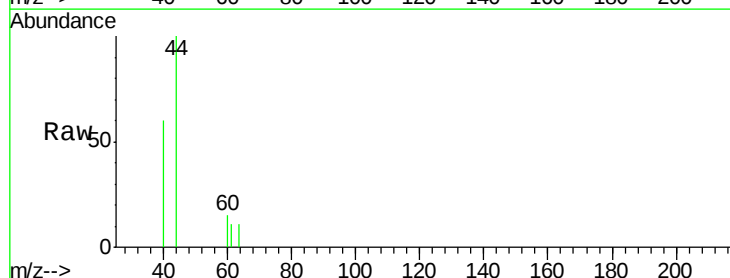
Acq: 24 Jan 2019 20:28

Tgt Ion: 63 Resp: 60

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

7.24

120

100

80

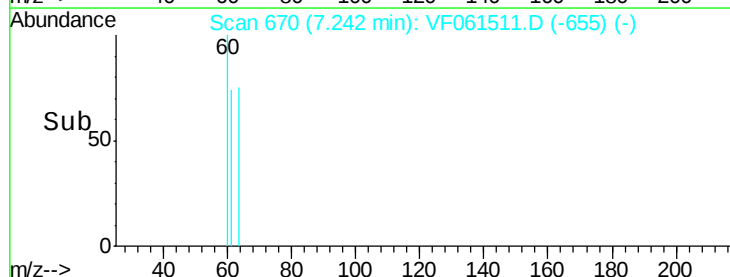
60

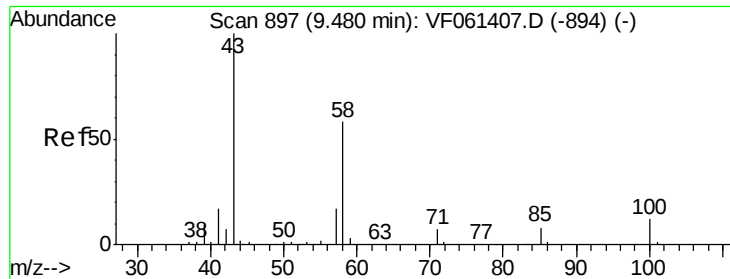
40

20

0

Time-->

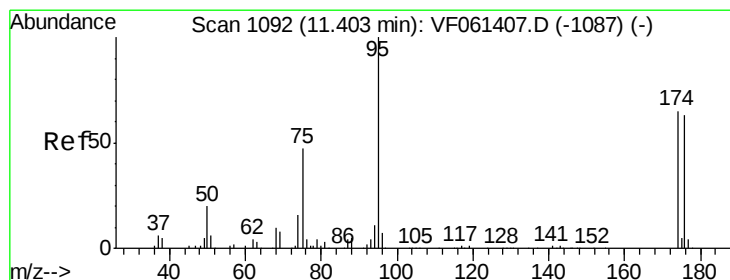
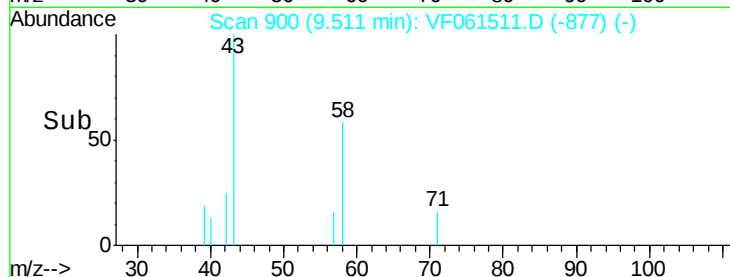
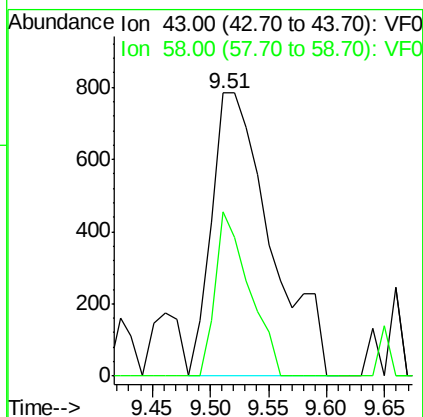
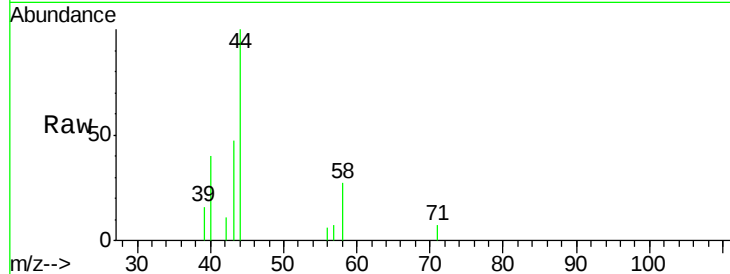




#59
2-Hexanone
Concen: 3.732 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.03 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

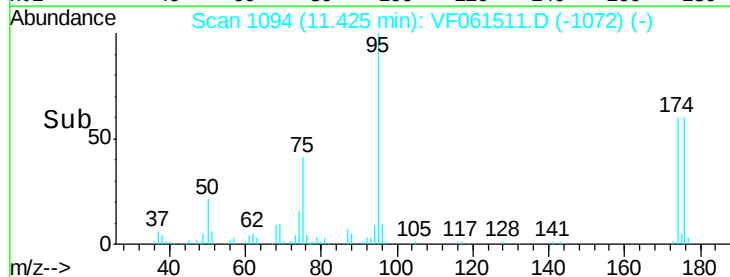
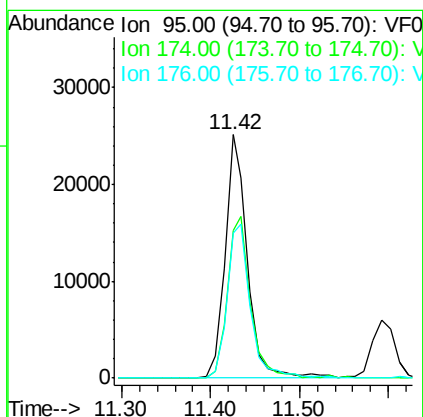
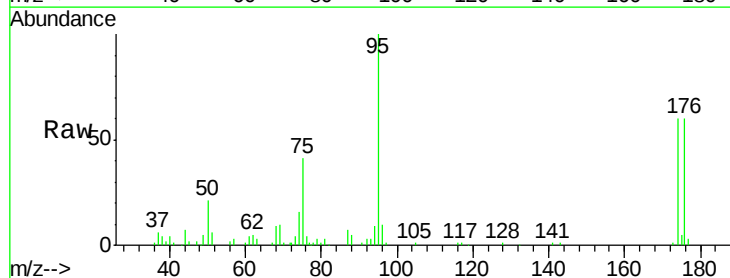
Instrument :
MSVOA_F
ClientSampleId :
TS-TRE

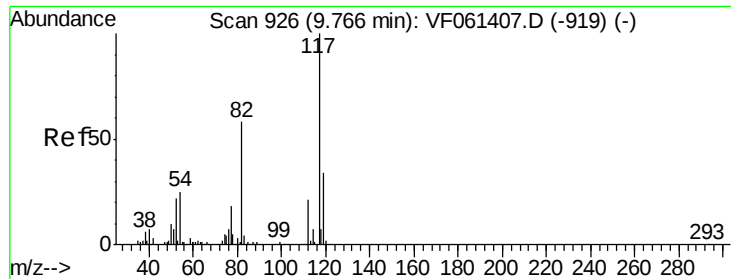
Tot Ion: 43 Resp: 2759
Ion Ratio Lower Upper
43 100
58 57.9 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 17.662 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.02 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

Tgt Ion: 95 Resp: 44225
Ion Ratio Lower Upper
95 100
174 60.5 0.0 130.4
176 59.7 0.0 126.2

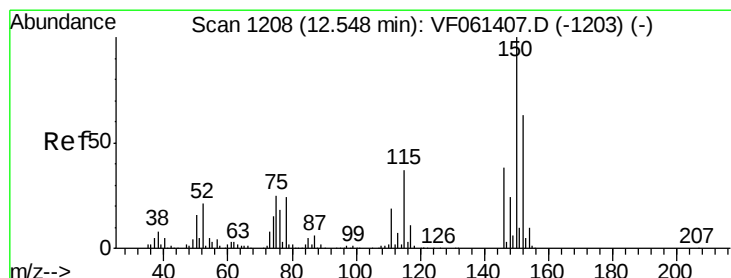
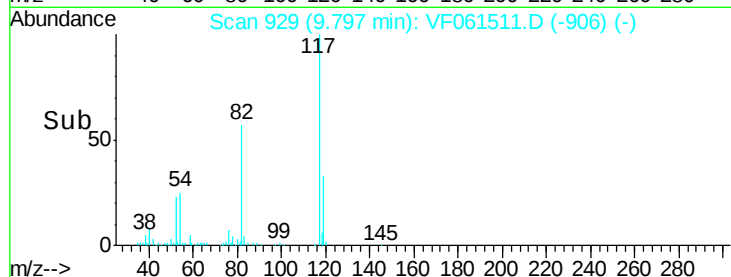
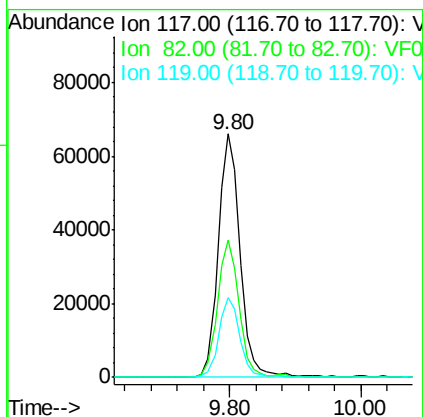
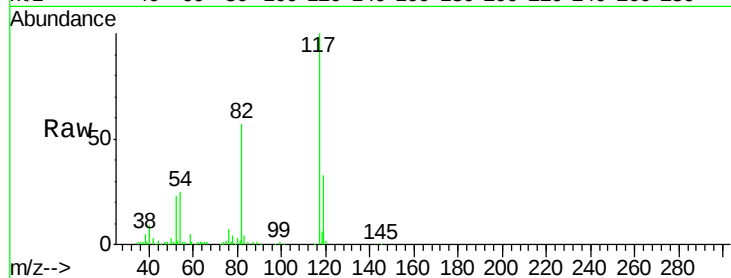




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.03 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

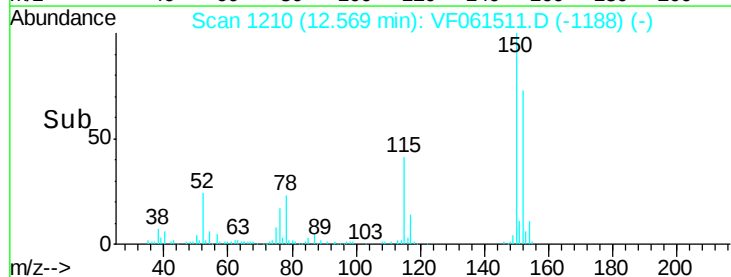
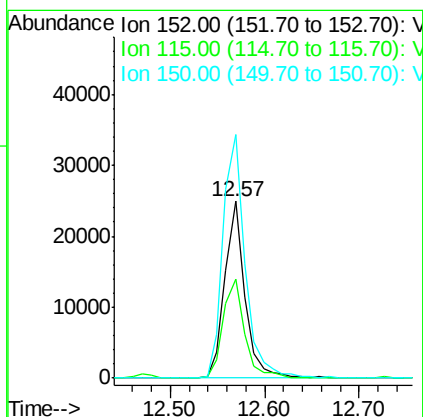
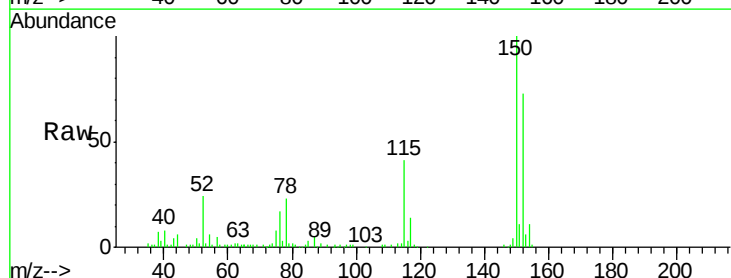
Instrument :
MSVOA_F
ClientSampleId :
TS-TRE

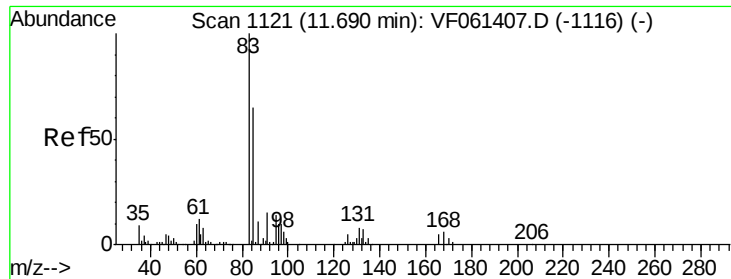
Tot Ion:117 Resp: 153376
Ion Ratio Lower Upper
117 100
82 56.6 46.4 69.6
119 32.8 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.02 min
Lab File: VF061511.D
Acq: 24 Jan 2019 20:28

Tgt Ion:152 Resp: 36823
Ion Ratio Lower Upper
152 100
115 56.1 30.0 90.0
150 137.9 0.0 321.4





#75

1,1,2,2-Tetrachloroethane

Concen: 1.098 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.10 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

Instrument :

MSVOA_F

ClientSampleId :

TS-TRE

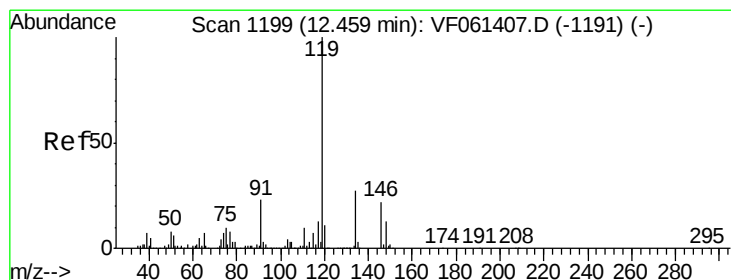
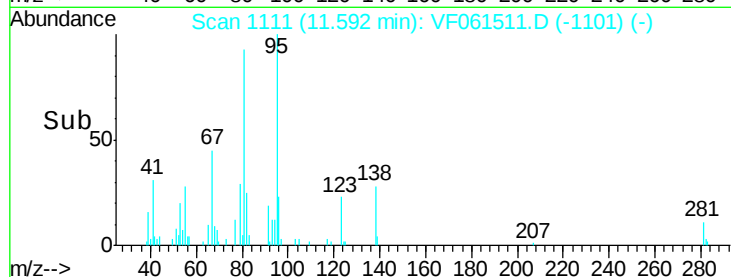
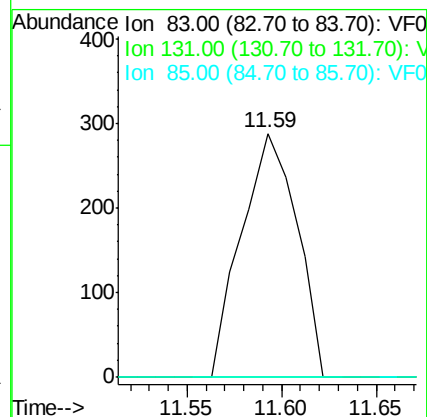
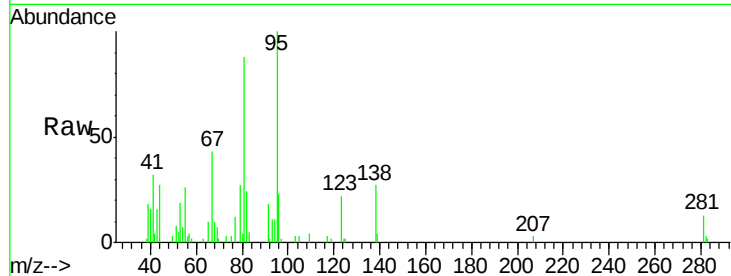
Tot Ion: 83 Resp: 586

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.2#

85 0.0 32.7 98.1#



#86

p-Isopropyltoluene

Concen: 4.600 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VF061511.D

Acq: 24 Jan 2019 20:28

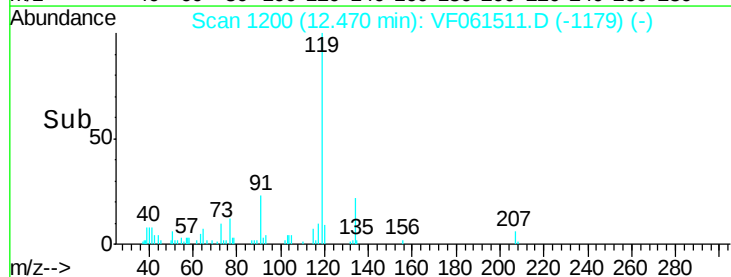
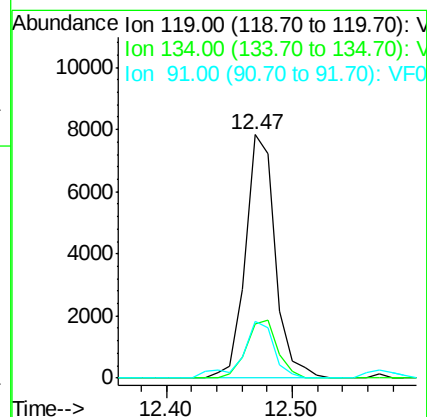
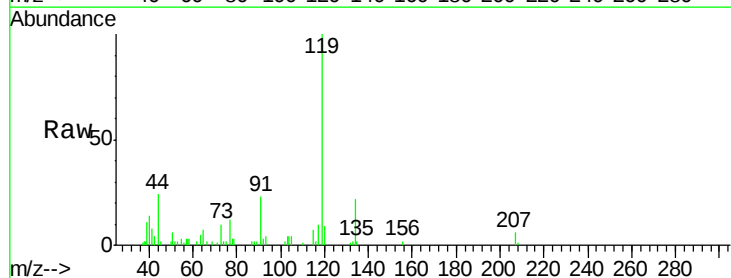
Tgt Ion: 119 Resp: 12829

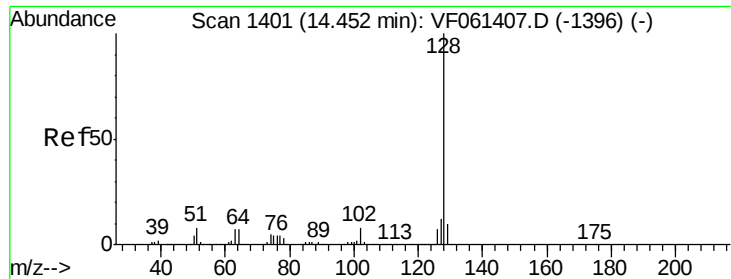
Ion Ratio Lower Upper

119 100

134 22.1 13.4 40.2

91 23.1 11.4 34.2





#95
 Naphthalene
 Concen: 1.516 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. 0.02 min
 Lab File: VF061511.D
 Acq: 24 Jan 2019 20:28

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-TRE

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.1	9.5	14.3#
129	13.2	8.4	12.6#

