

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061197.D
 Acq On : 26 Dec 2018 19:28
 Operator : VA/AP
 Sample : J6446-08RE
 Misc : 2.85g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS021-0006-01RE

Quant Time: Dec 26 23:55:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

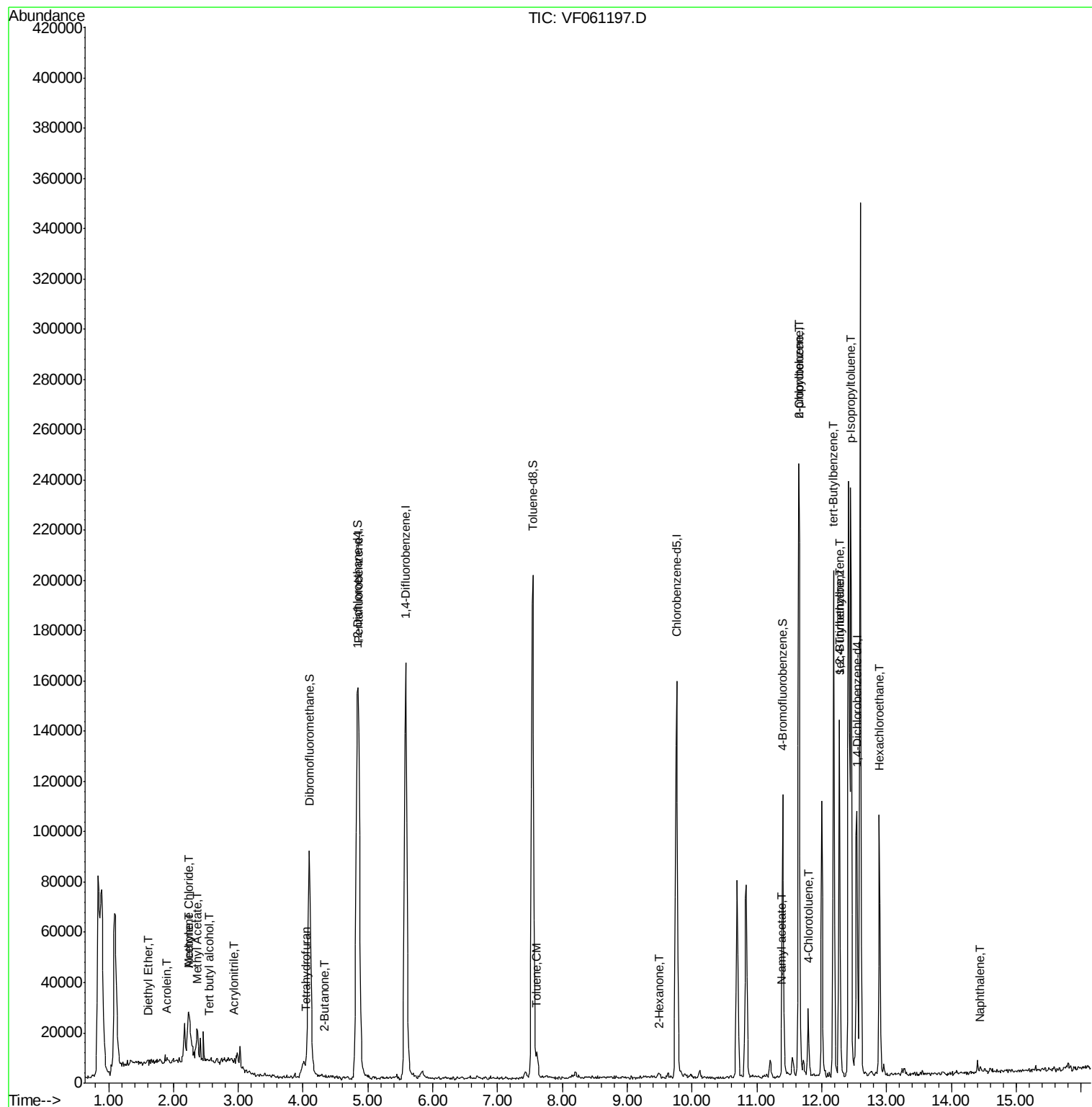
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	105306	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	185214	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	108732	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	25365	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	82829	61.15	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	122.30%	
35) Dibromofluoromethane	4.10	113	87340	58.87	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	117.74%	
50) Toluene-d8	7.54	98	169772	40.38	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	80.76%	
62) 4-Bromofluorobenzene	11.40	95	44377	22.89	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	45.78%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.60	74	346	1.064	ug/l	61
11) Tert butyl alcohol	2.55	59	156	2.854	ug/l #	1
13) Acrolein	1.90	56	399	10.103	ug/l	85
15) Acrylonitrile	2.93	53	308	2.437	ug/l #	15
16) Acetone	2.23	43	10702	39.525	ug/l	100
18) Methyl Acetate	2.36	43	5688	10.154	ug/l #	66
20) Methylene Chloride	2.24	84	12417	10.832	ug/l #	80
25) 2-Butanone	4.32	43	2041	4.648	ug/l #	57
29) Tetrahydrofuran	4.04	42	192	1.074	ug/l #	37
52) Toluene	7.60	92	4836	1.520	ug/l #	60
59) 2-Hexanone	9.49	43	945	1.765	ug/l	84
70) Styrene	10.78	104	77	Below Cal	#	43
74) N-ethyl acetate	11.37	43	534	1.100	ug/l #	46
78) n-propylbenzene	11.65	91	27487	9.240	ug/l #	58
79) 2-Chlorotoluene	11.65	91	27487	18.331	ug/l #	42
82) 4-Chlorotoluene	11.79	91	2051	1.322	ug/l #	43
83) tert-Butylbenzene	12.18	119	13561	7.322	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.28	105	2542	1.416	ug/l	67
85) sec-Butylbenzene	12.28	105	2542	1.052	ug/l	96
86) p-Isopropyltoluene	12.44	119	129661	64.629	ug/l	99
87) 1,3-Dichlorobenzene	12.44	146	242	Below Cal	#	25
90) Hexachloroethane	12.89	117	1196	2.413	ug/l #	27
95) Naphthalene	14.45	128	1114	1.023	ug/l #	81

(#) = 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. -0.02 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

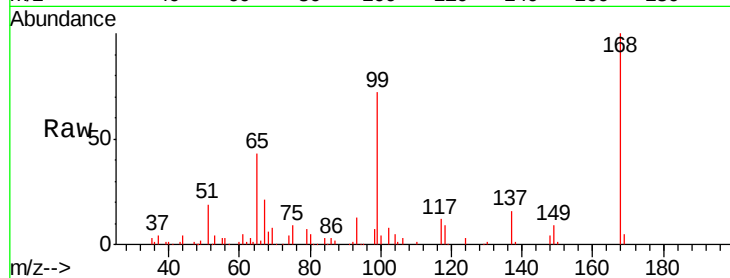
P001-SS021-0006-01RE

Tgt Ion:168 Resp: 105306

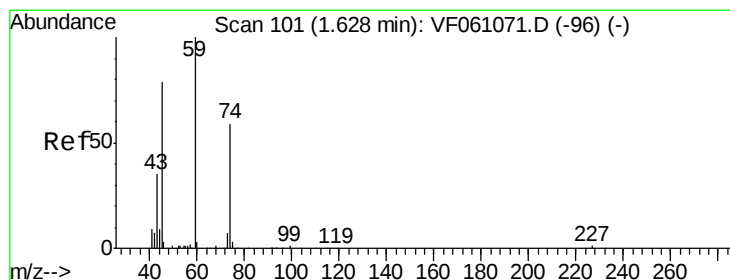
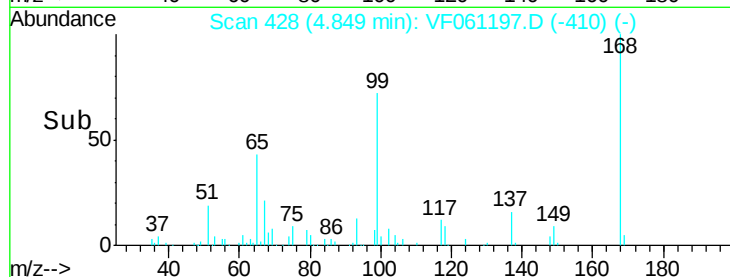
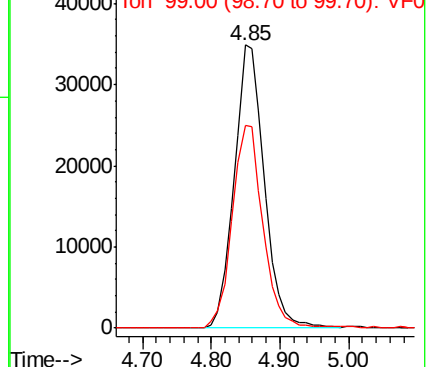
Ion Ratio Lower Upper

168 100

99 71.9 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 1.064 ug/l

RT: 1.60 min Scan# 99

Delta R.T. -0.02 min

Lab File: VF061197.D

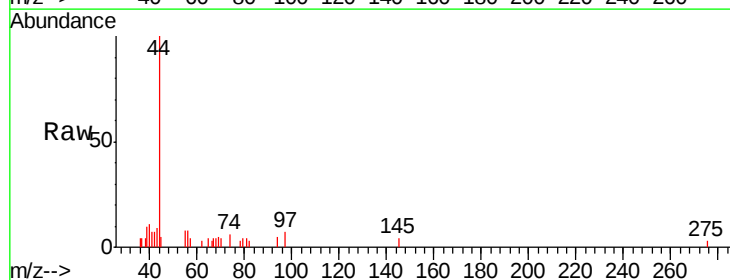
Acq: 26 Dec 2018 19:28

Tgt Ion: 74 Resp: 346

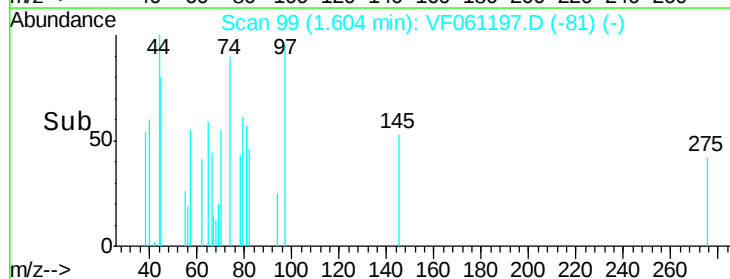
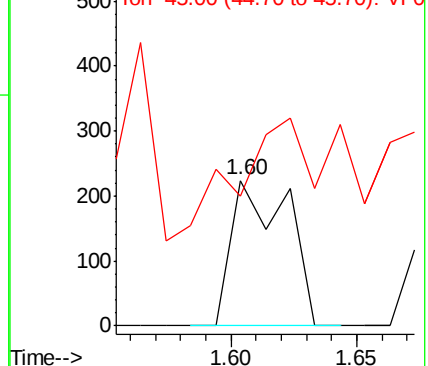
Ion Ratio Lower Upper

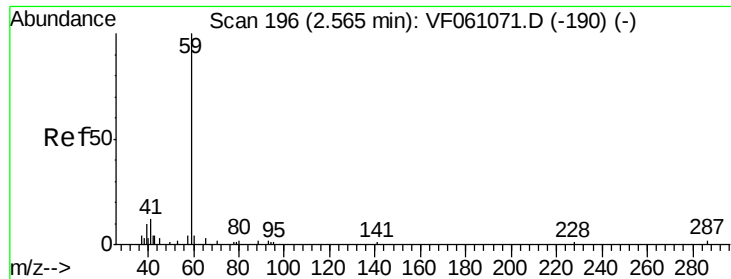
74 100

45 88.8 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

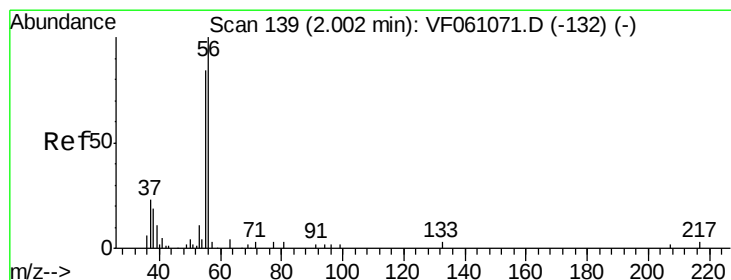
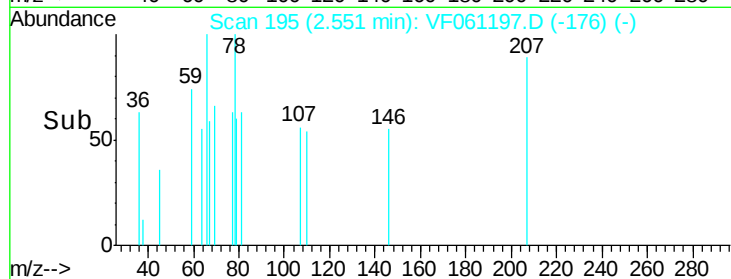
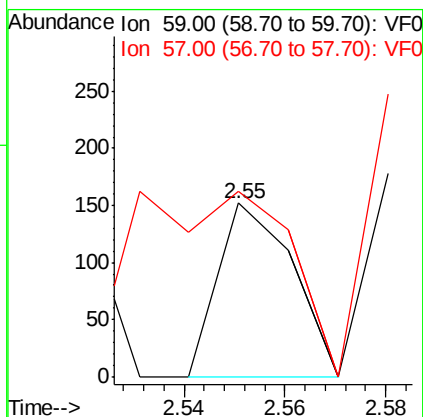
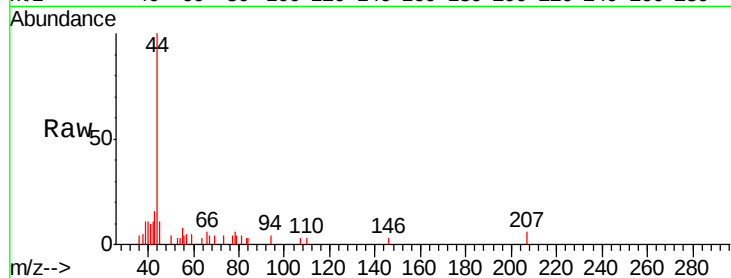




#11
Tert butyl alcohol
Concen: 2.854 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

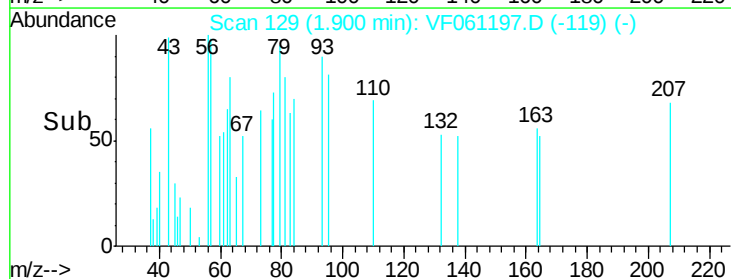
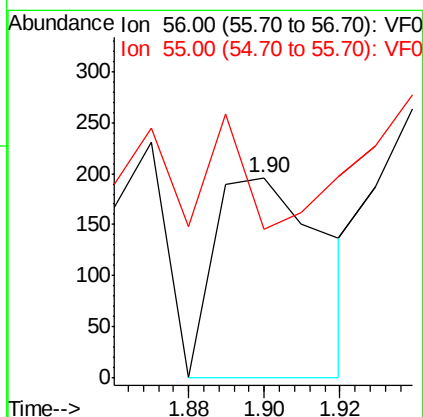
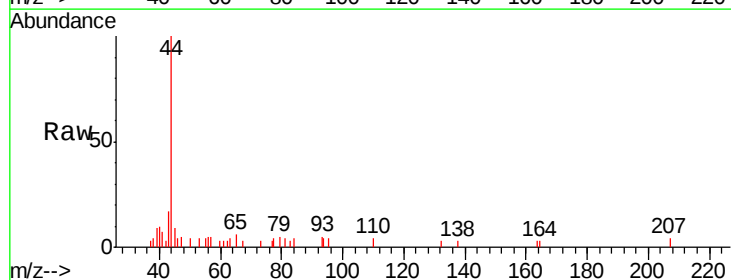
Instrument :
MSVOA_F
ClientSampleId :
P001-SS021-0006-01RE

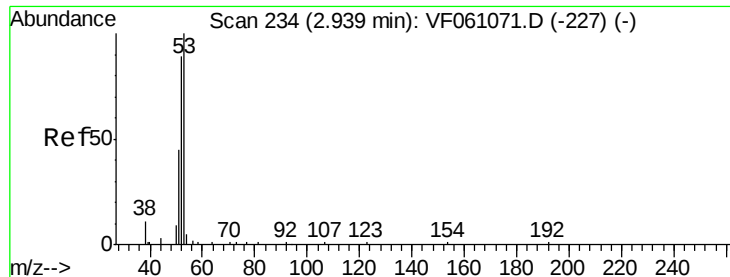
Tgt Ion: 59 Resp: 156
Ion Ratio Lower Upper
59 100
57 106.6 11.5 17.3#



#13
Acrolein
Concen: 10.103 ug/l
RT: 1.90 min Scan# 129
Delta R.T. -0.10 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

Tgt Ion: 56 Resp: 399
Ion Ratio Lower Upper
56 100
55 74.0 70.2 105.2





#15

Acrylonitrile

Concen: 2.437 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

P001-SS021-0006-01RE

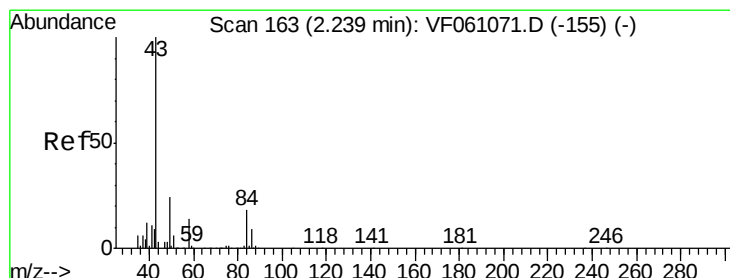
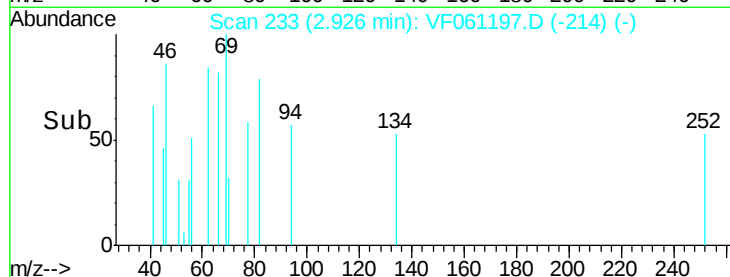
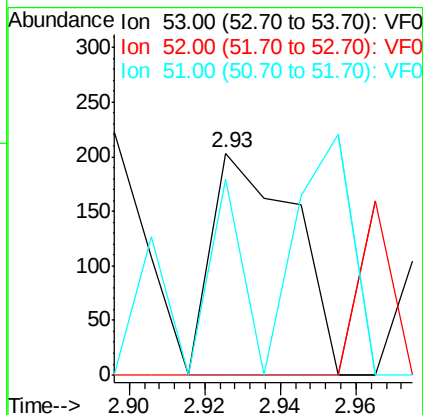
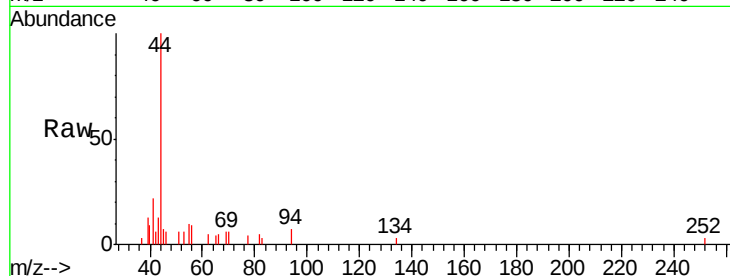
Tgt Ion: 53 Resp: 308

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 88.7 36.8 55.2#



#16

Acetone

Concen: 39.525 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061197.D

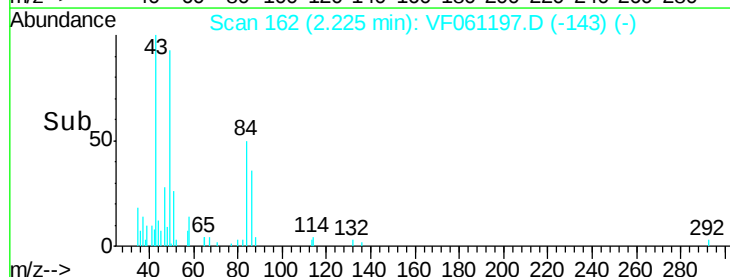
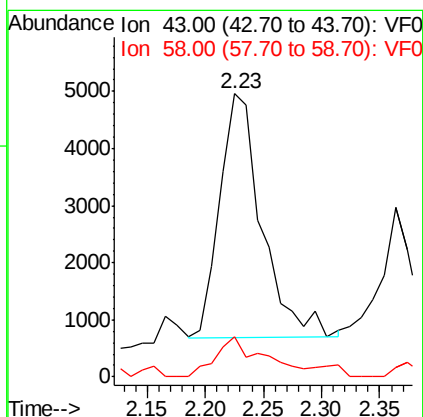
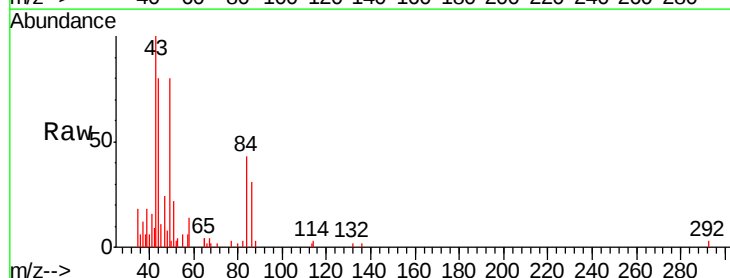
Acq: 26 Dec 2018 19:28

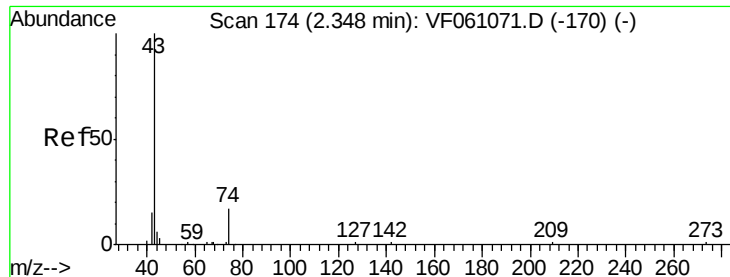
Tgt Ion: 43 Resp: 10702

Ion Ratio Lower Upper

43 100

58 14.1 11.1 16.7

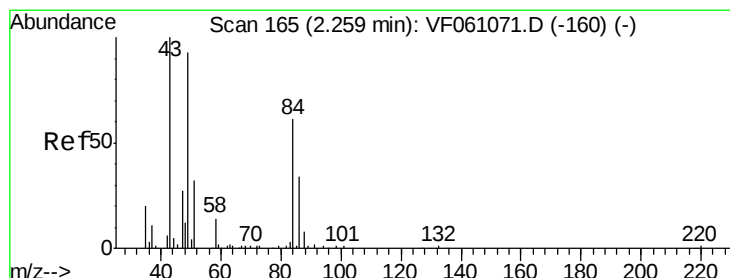
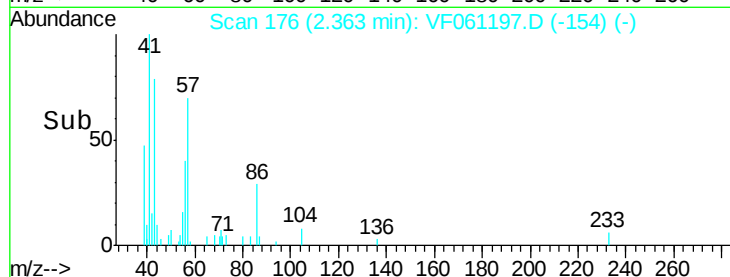
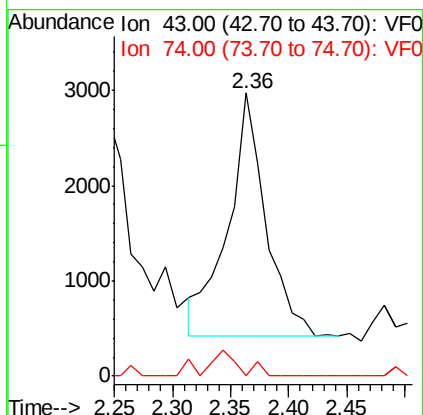
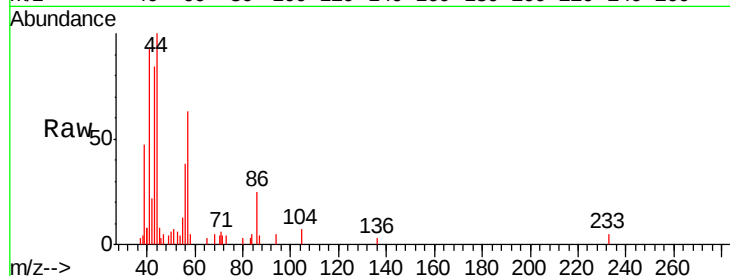




#18
Methyl Acetate
Concen: 10.154 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

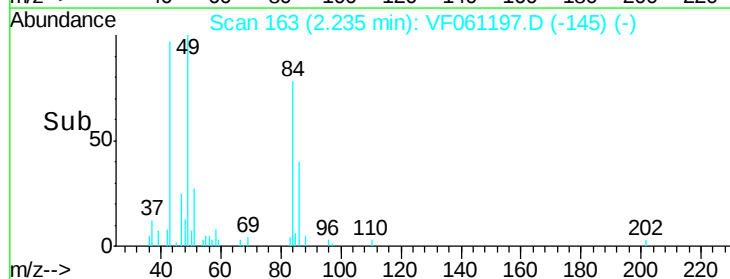
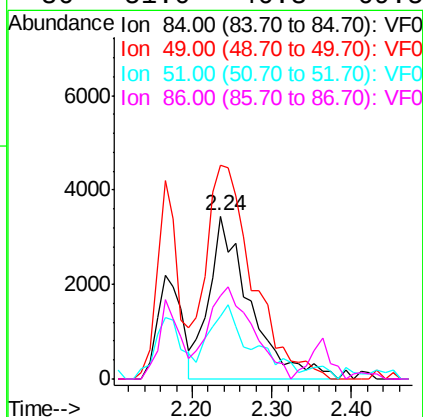
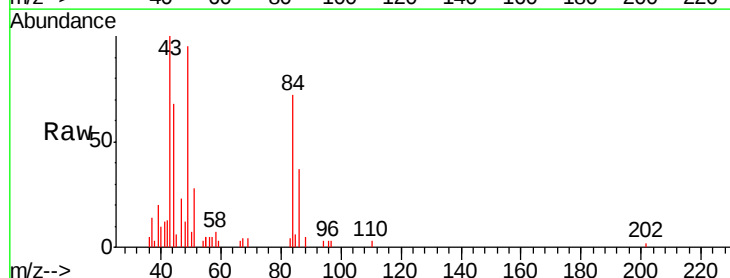
Instrument :
MSVOA_F
ClientSampleId :
P001-SS021-0006-01RE

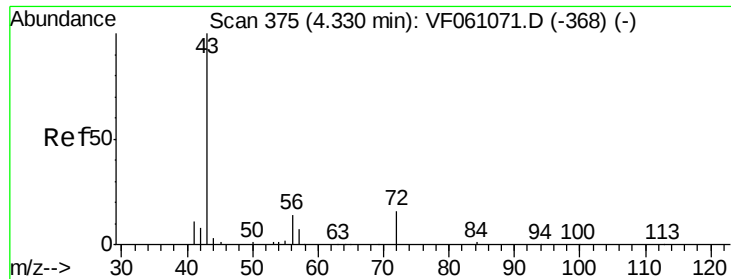
Tgt Ion: 43 Resp: 5688
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#



#20
Methylene Chloride
Concen: 10.832 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

Tgt Ion: 84 Resp: 12417
Ion Ratio Lower Upper
84 100
49 131.4 129.4 194.2
51 38.3 44.0 66.0#
86 51.0 46.3 69.5





#25

2-Butanone

Concen: 4.648 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

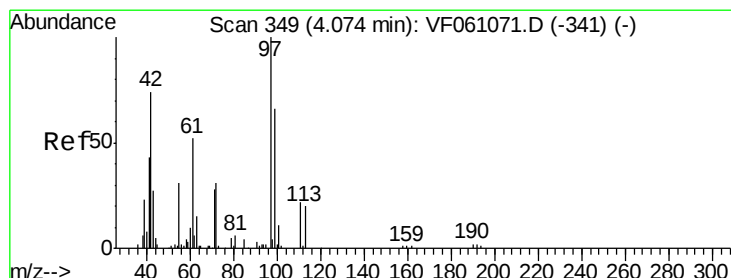
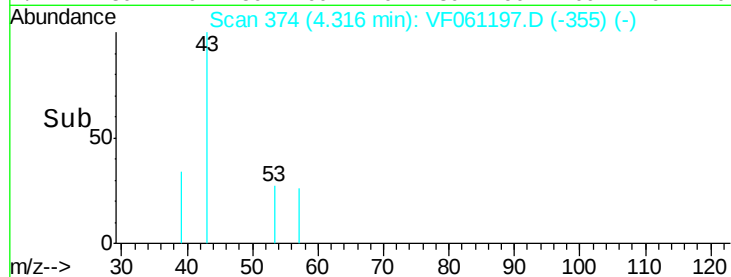
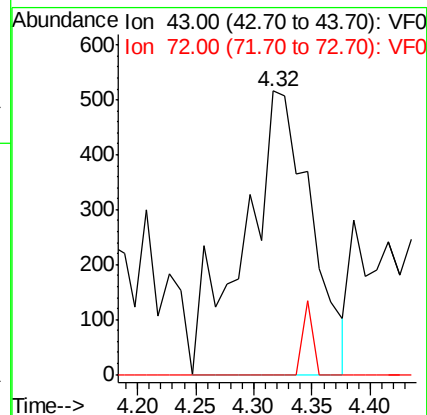
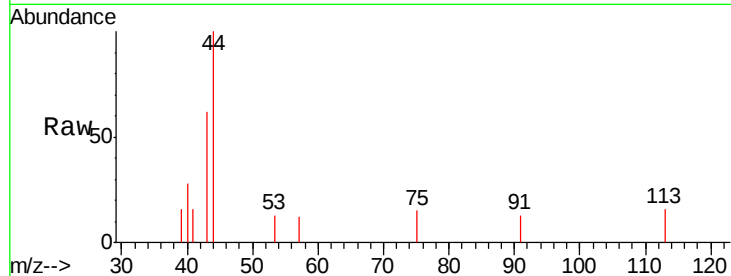
P001-SS021-0006-01RE

Tgt Ion: 43 Resp: 2041

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



#29

Tetrahydrofuran

Concen: 1.074 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.03 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

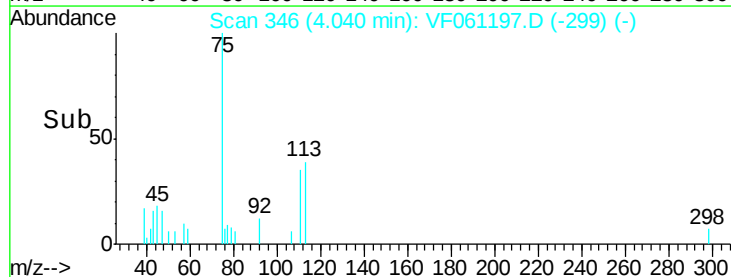
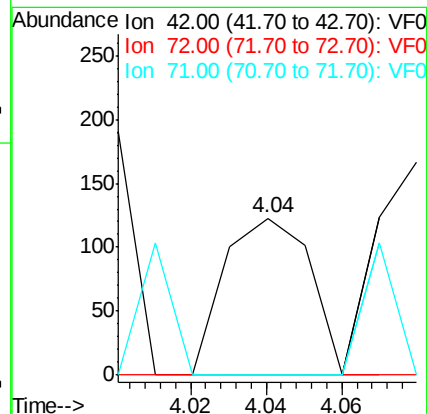
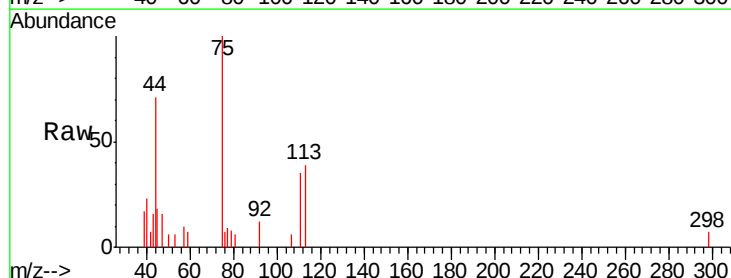
Tgt Ion: 42 Resp: 192

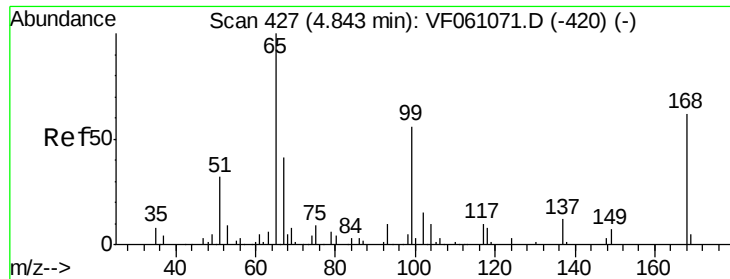
Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#





#33

1,2-Dichloroethane-d4

Concen: 61.155 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

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ClientSampleId :

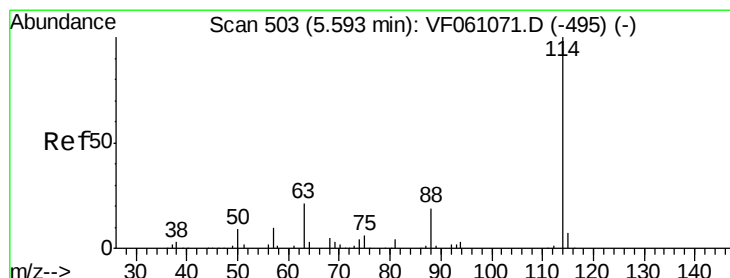
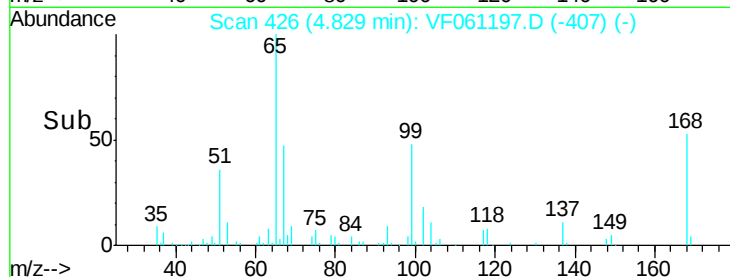
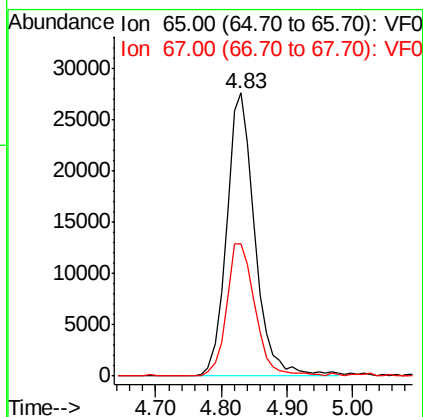
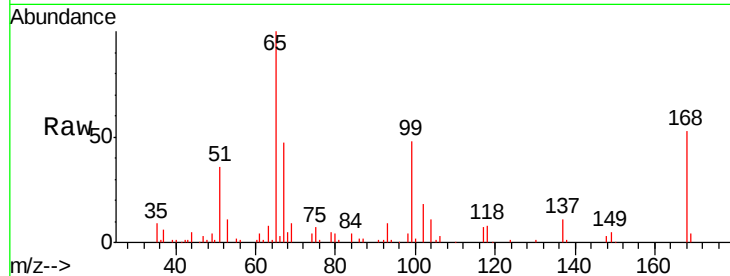
P001-SS021-0006-01RE

Tgt Ion: 65 Resp: 82829

Ion Ratio Lower Upper

65 100

67 46.9 0.0 94.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

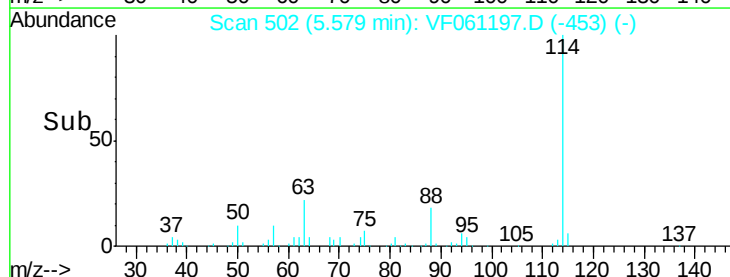
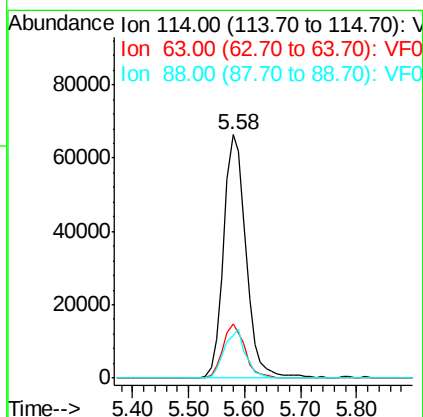
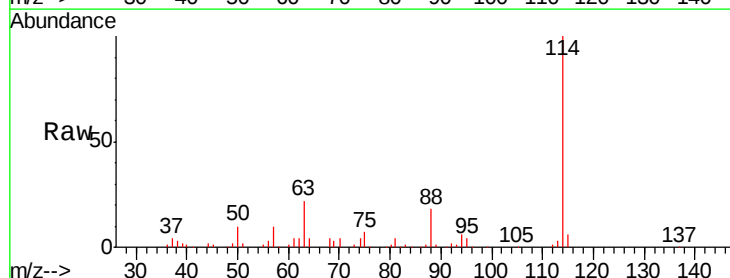
Tgt Ion: 114 Resp: 185214

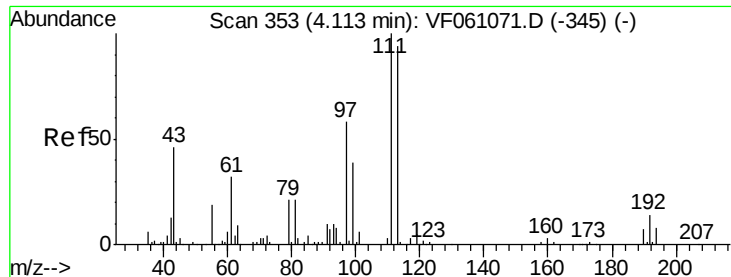
Ion Ratio Lower Upper

114 100

63 22.3 0.0 41.6

88 17.8 0.0 38.0

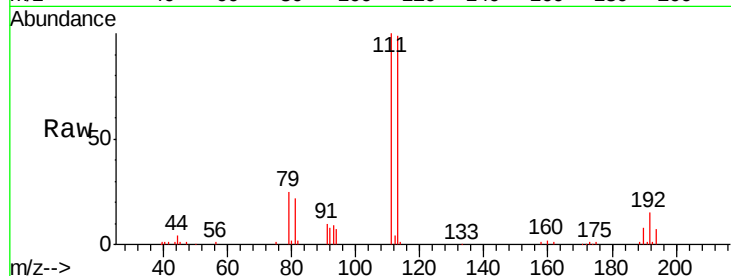




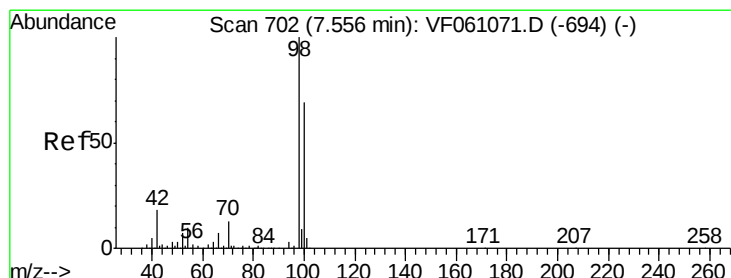
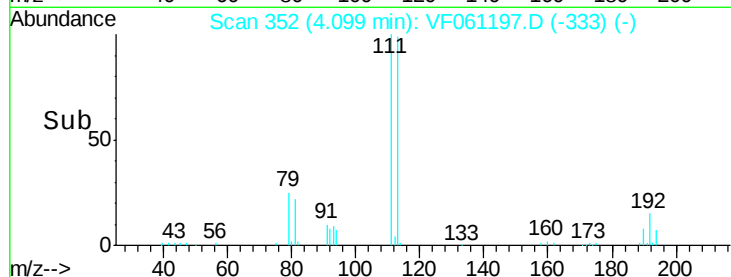
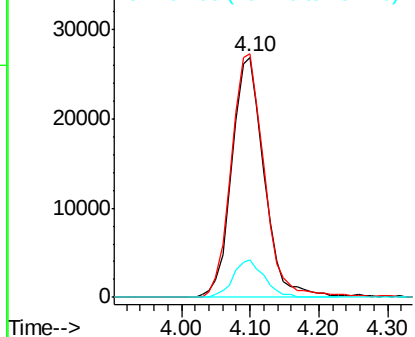
#35
 Dibromofluoromethane
 Concen: 58.868 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS021-0006-01RE

Tgt Ion: 113 Resp: 87340
 Ion Ratio Lower Upper
 113 100
 111 101.5 85.2 127.8
 192 15.9 12.8 19.2

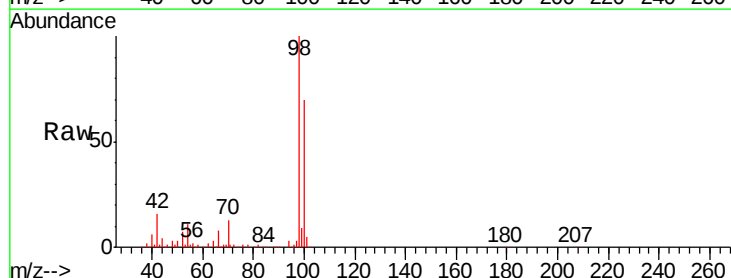


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

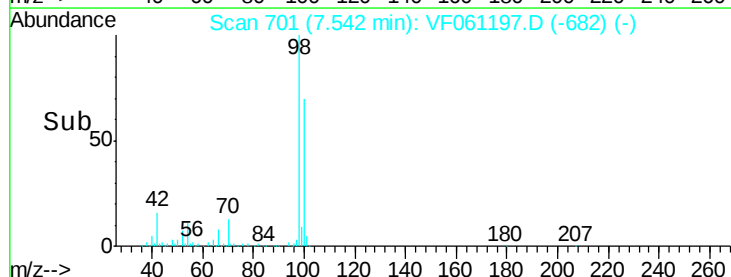
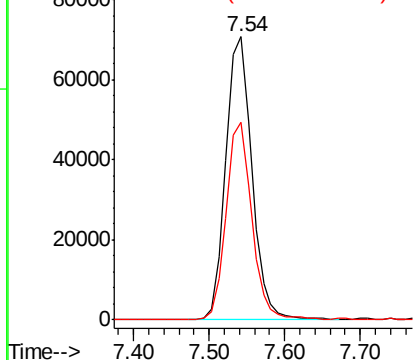


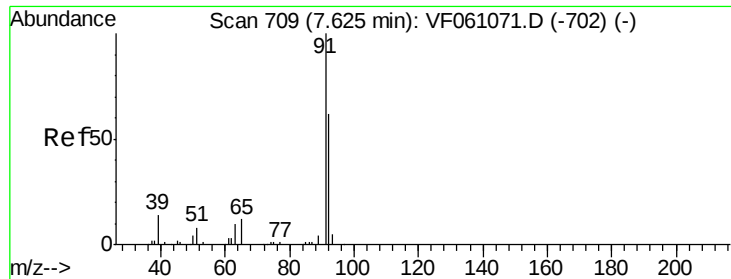
#50
 Toluene-d8
 Concen: 40.378 ug/l
 RT: 7.54 min Scan# 701
 Delta R.T. -0.01 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

Tgt Ion: 98 Resp: 169772
 Ion Ratio Lower Upper
 98 100
 100 69.8 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 1.520 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

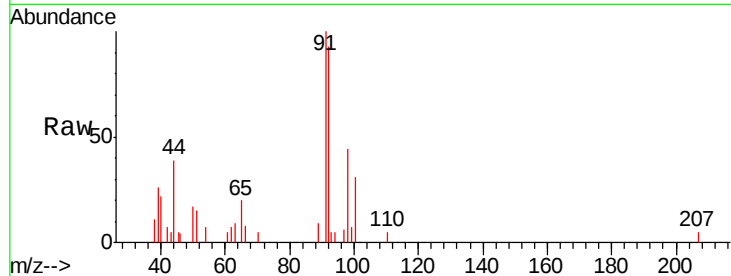
P001-SS021-0006-01RE

Tgt Ion: 92 Resp: 4836

Ion Ratio Lower Upper

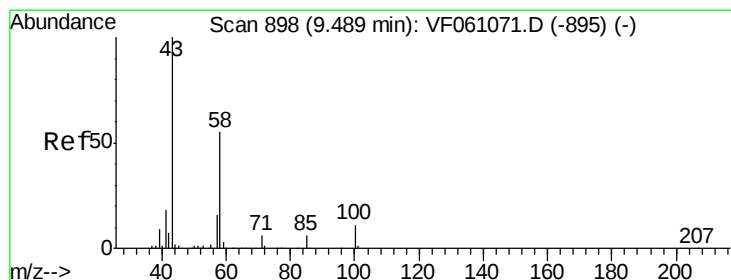
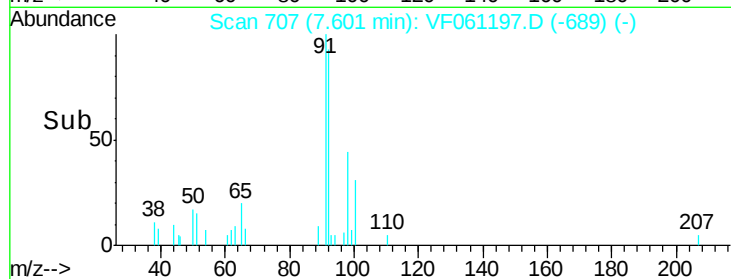
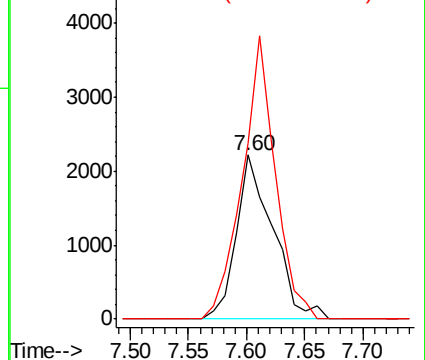
92 100

91 107.6 128.8 193.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.765 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.00 min

Lab File: VF061197.D

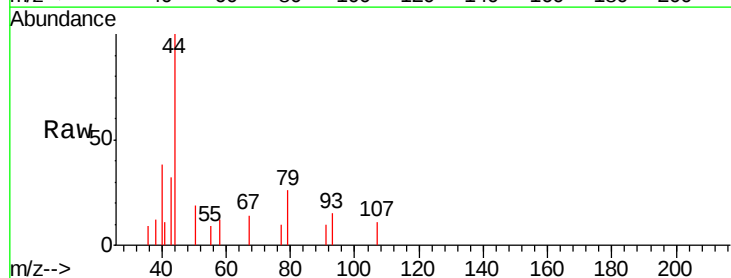
Acq: 26 Dec 2018 19:28

Tgt Ion: 43 Resp: 945

Ion Ratio Lower Upper

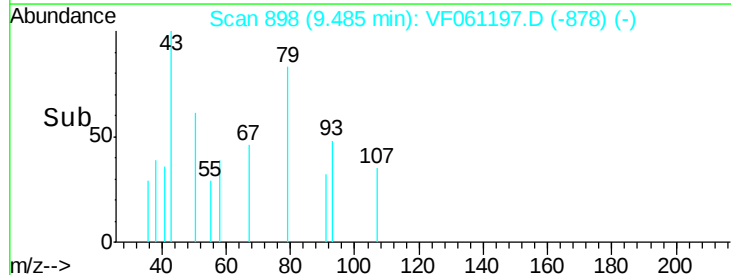
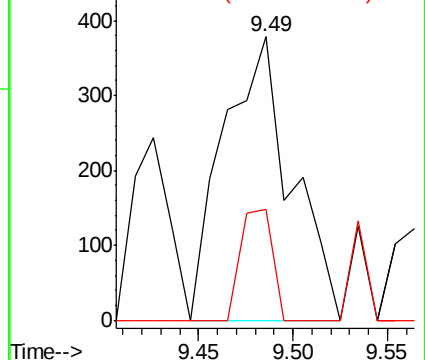
43 100

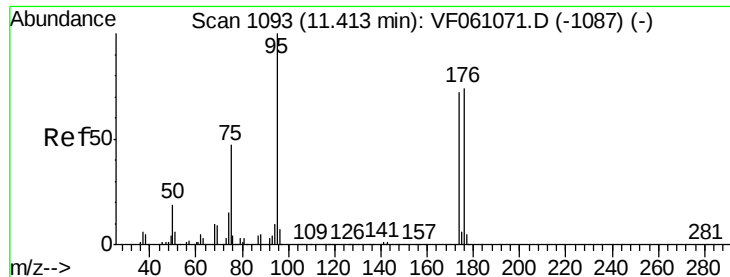
58 39.2 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 22.894 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

P001-SS021-0006-01RE

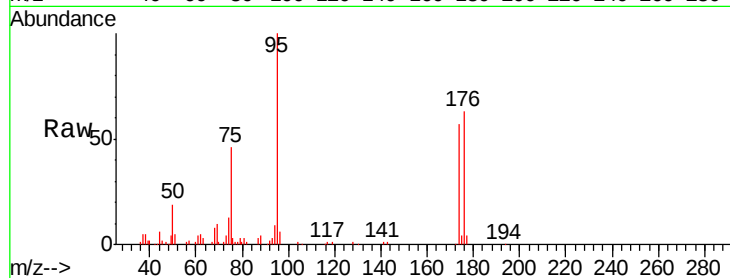
Tgt Ion: 95 Resp: 44377

Ion Ratio Lower Upper

95 100

174 57.2 0.0 143.8

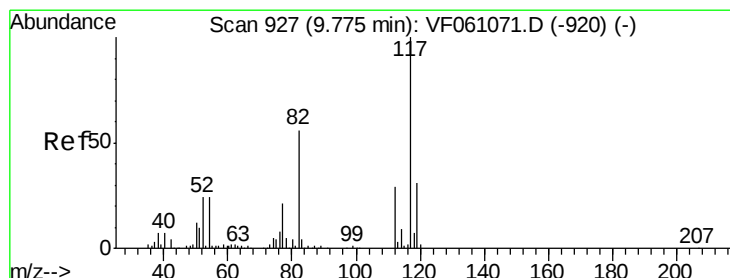
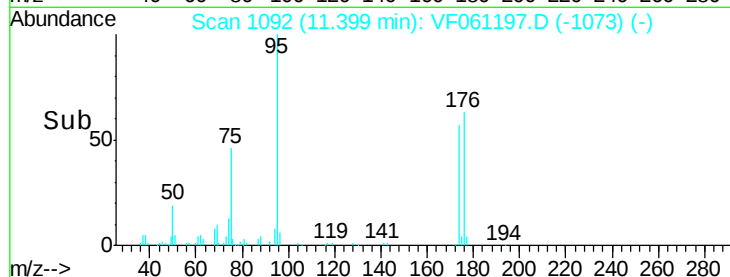
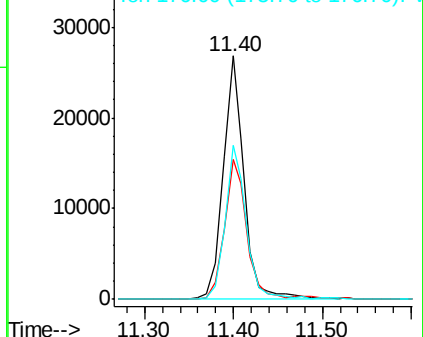
176 63.1 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

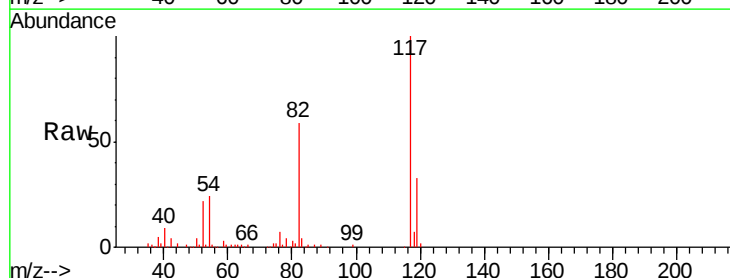
Tgt Ion: 117 Resp: 108732

Ion Ratio Lower Upper

117 100

82 59.2 45.0 67.4

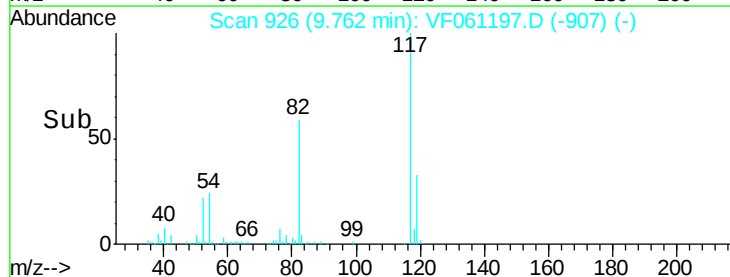
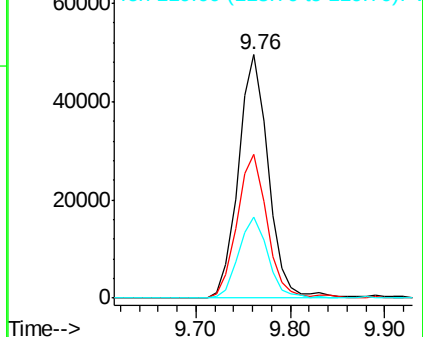
119 33.3 24.8 37.2

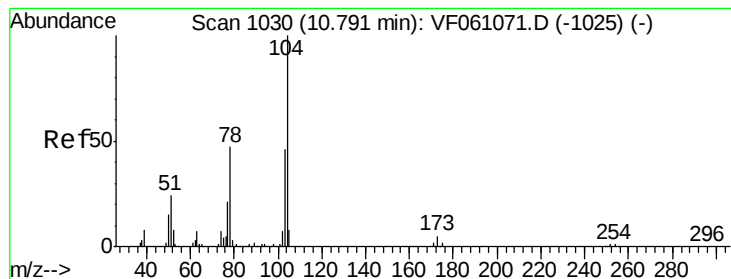


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Styrene

Concen: Below Cal

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

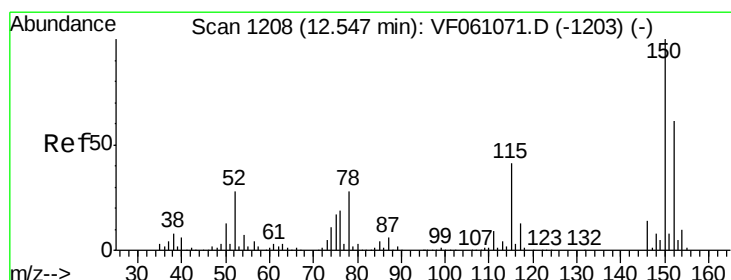
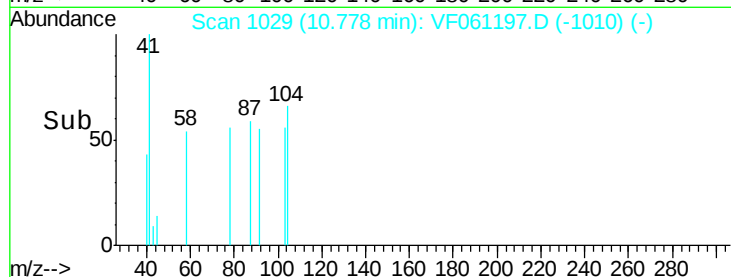
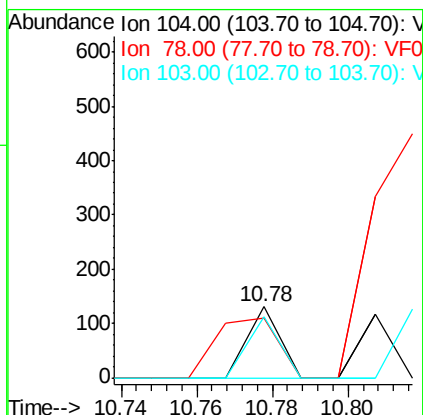
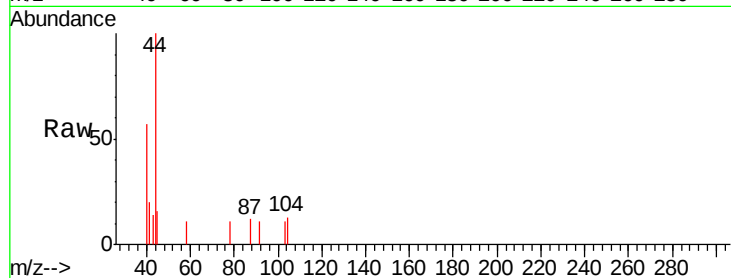
Instrument :

MSVOA_F

ClientSampleId :

P001-SS021-0006-01RE

Tgt Ion:	104	Resp:	77
Ion	Ratio	Lower	Upper
104	100		
78	84.6	38.4	57.6#
103	85.4	37.0	55.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

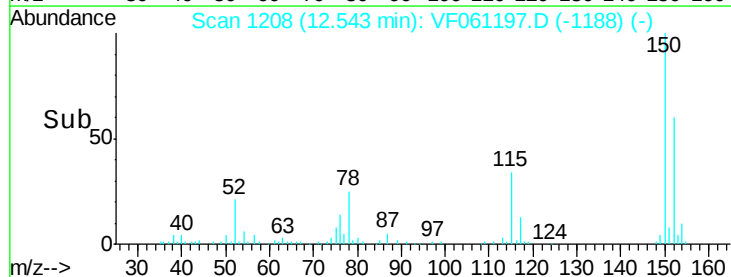
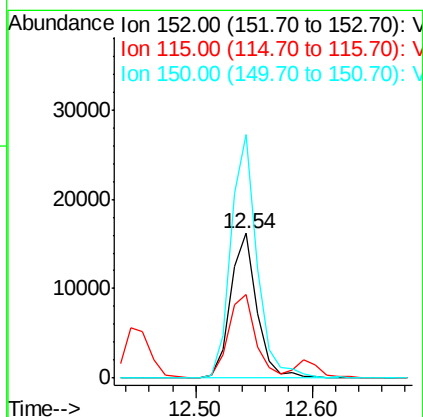
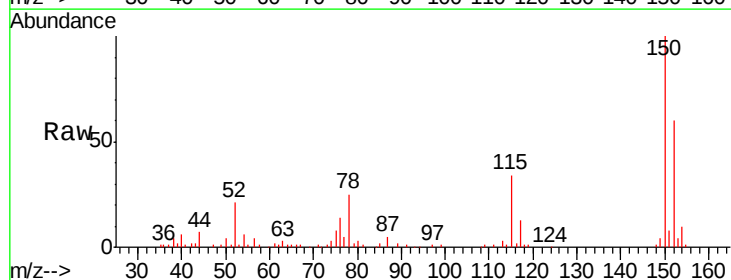
RT: 12.54 min Scan# 1208

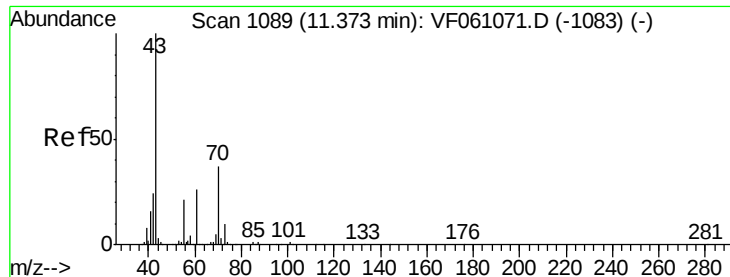
Delta R.T. -0.00 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Tgt Ion:	152	Resp:	25365
Ion	Ratio	Lower	Upper
152	100		
115	57.8	33.3	99.9
150	167.9	0.0	328.2

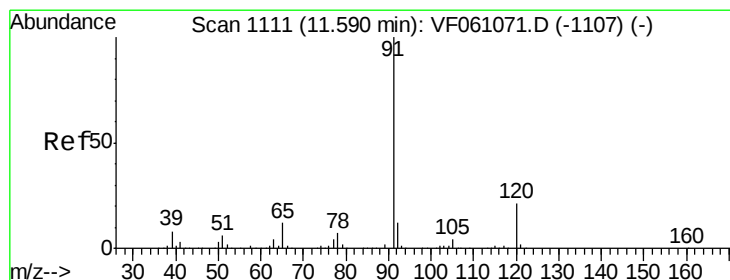
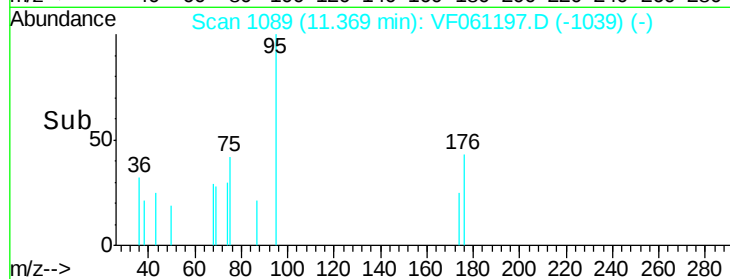
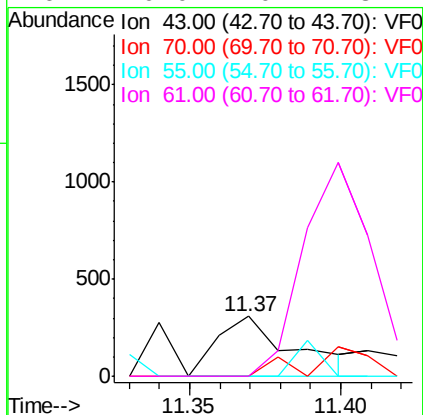
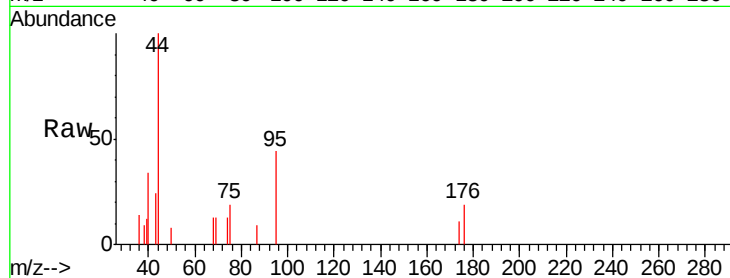




#74
N-amyI acetate
Concen: 1.100 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

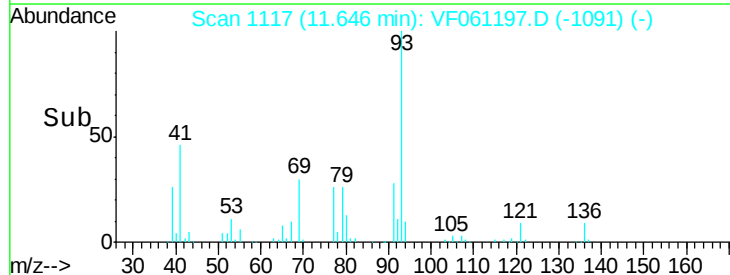
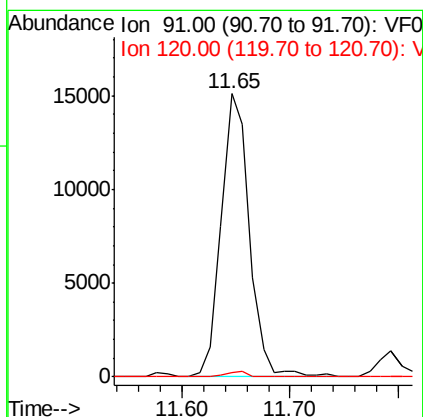
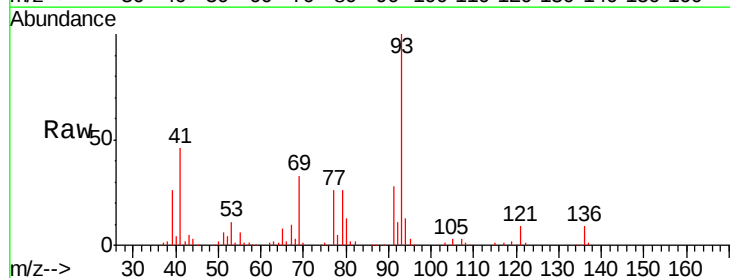
Instrument :
MSVOA_F
ClientSampleId :
P001-SS021-0006-01RE

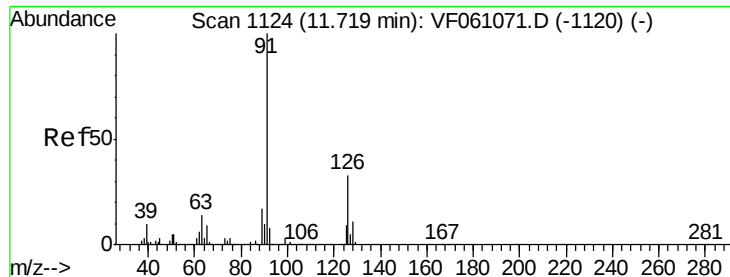
Tgt Ion:	43	Resp:	534
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.2	43.8#
55	0.0	16.5	24.7#
61	0.0	20.7	31.1#



#78
n-propylbenzene
Concen: 9.240 ug/l
RT: 11.65 min Scan# 1117
Delta R.T. 0.06 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

Tgt Ion:	91	Resp:	27487
Ion	Ratio	Lower	Upper
91	100		
120	1.3	10.4	31.2#





#79

2-Chlorotoluene

Concen: 18.331 ug/l

RT: 11.65 min Scan# 1117

Delta R.T. -0.07 min

Lab File: VF061197.D

Acq: 26 Dec 2018 19:28

Instrument :

MSVOA_F

ClientSampleId :

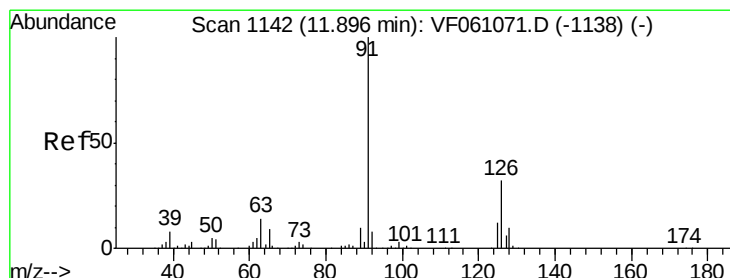
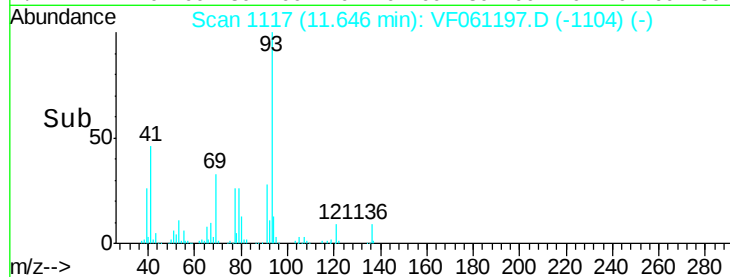
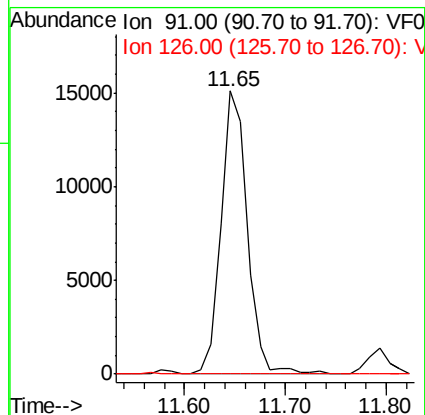
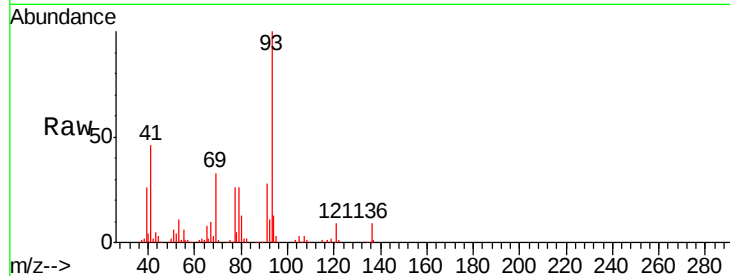
P001-SS021-0006-01RE

Tgt Ion: 91 Resp: 27487

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#



#82

4-Chlorotoluene

Concen: 1.322 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.10 min

Lab File: VF061197.D

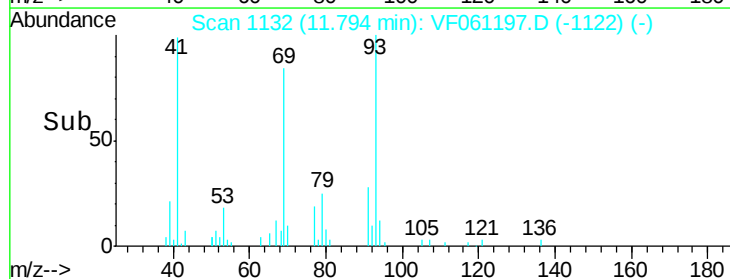
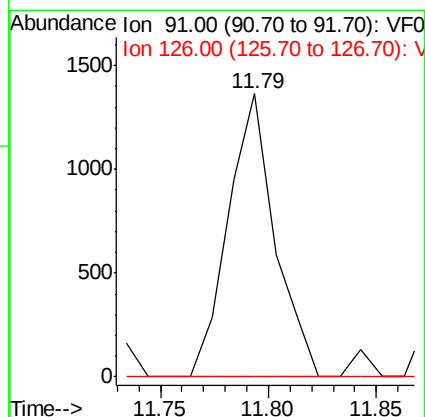
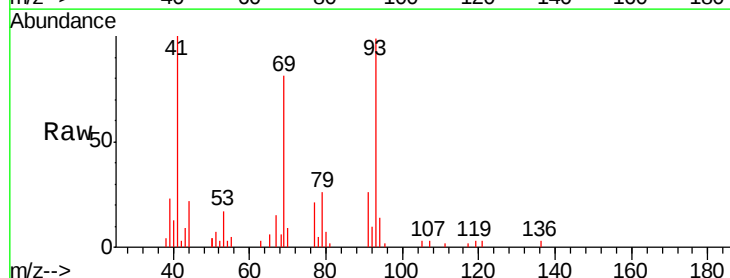
Acq: 26 Dec 2018 19:28

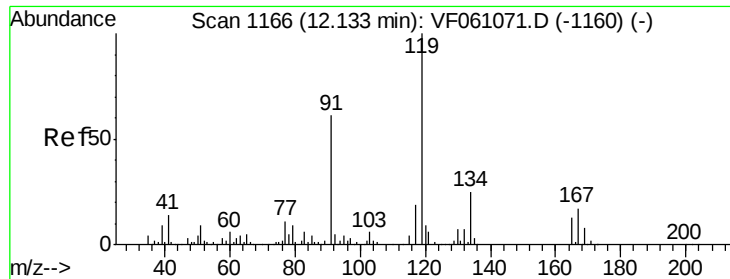
Tgt Ion: 91 Resp: 2051

Ion Ratio Lower Upper

91 100

126 0.0 16.0 47.9#

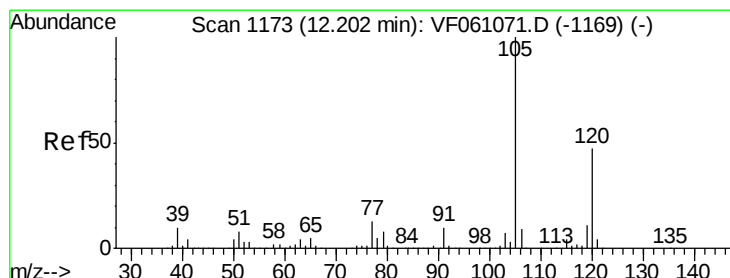
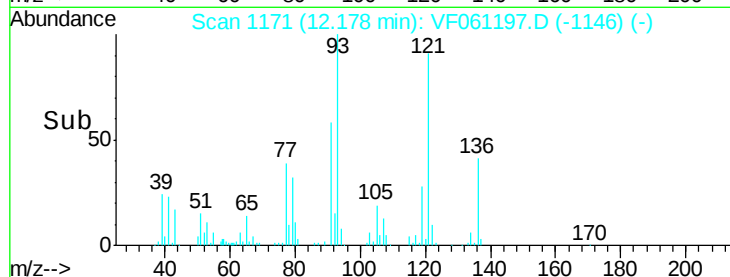
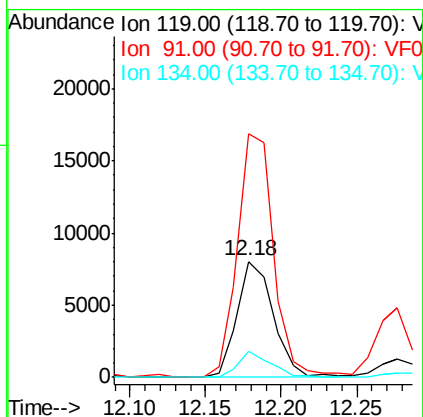
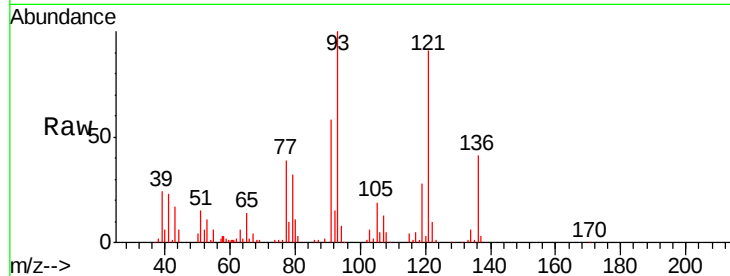




#83
 tert-Butylbenzene
 Concen: 7.322 ug/l
 RT: 12.18 min Scan# 1171
 Delta R.T. 0.05 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

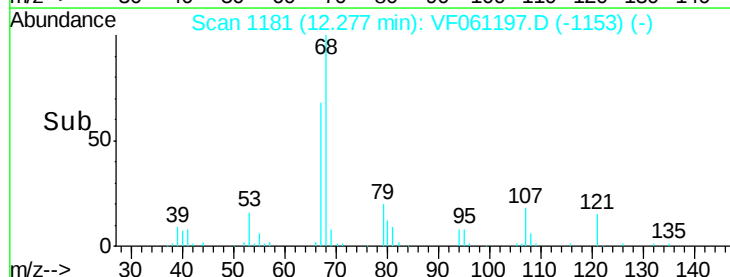
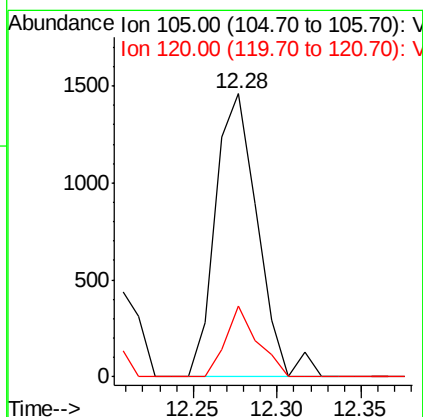
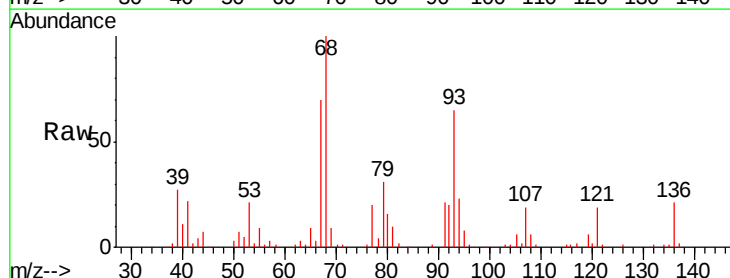
Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS021-0006-01RE

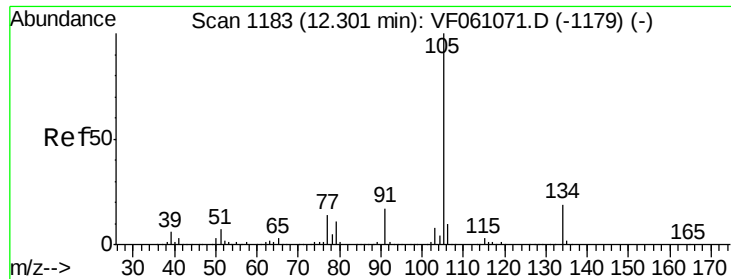
Tgt Ion:119 Resp: 13561
 Ion Ratio Lower Upper
 119 100
 91 209.6 30.5 91.5#
 134 21.9 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 1.416 ug/l
 RT: 12.28 min Scan# 1181
 Delta R.T. 0.07 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

Tgt Ion:105 Resp: 2542
 Ion Ratio Lower Upper
 105 100
 120 25.2 23.6 71.0

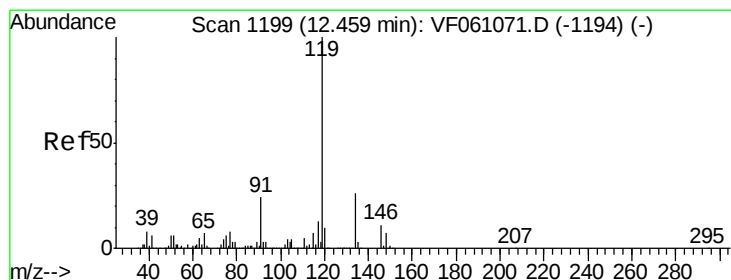
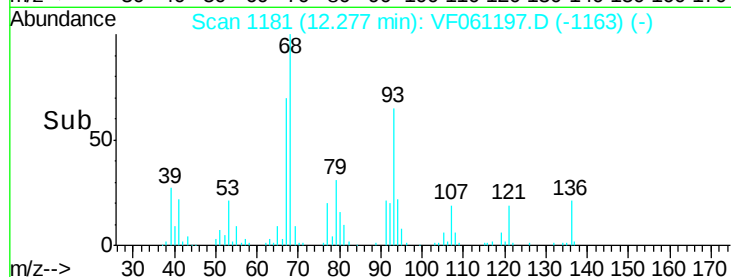
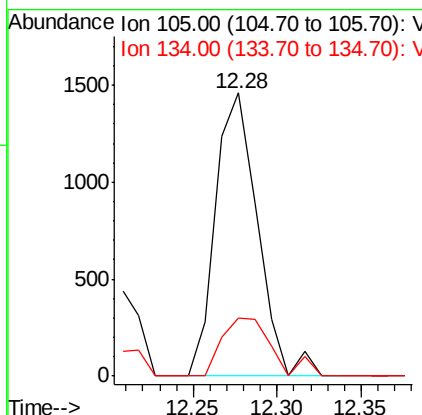
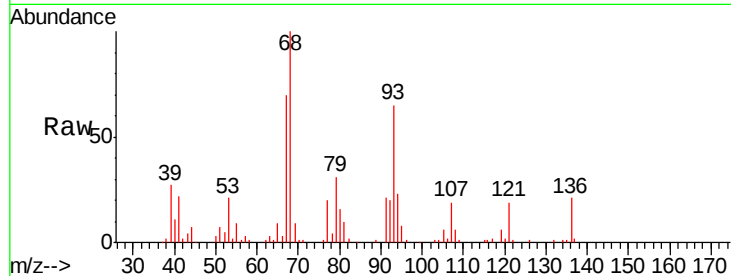




#85
 sec-Butylbenzene
 Concen: 1.052 ug/l
 RT: 12.28 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

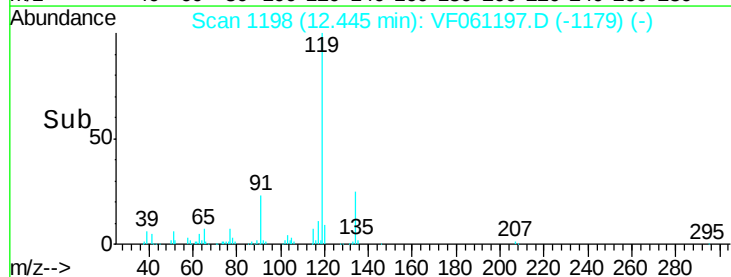
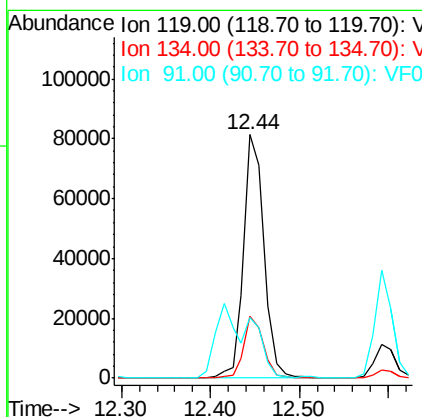
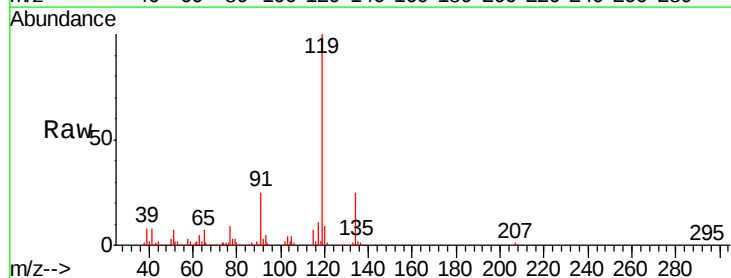
Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS021-0006-01RE

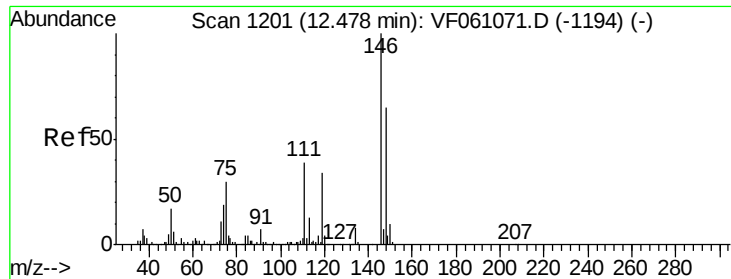
Tgt Ion:105 Resp: 2542
 Ion Ratio Lower Upper
 105 100
 134 20.5 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 64.629 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

Tgt Ion:119 Resp: 129661
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.8 38.4
 91 25.0 12.2 36.6

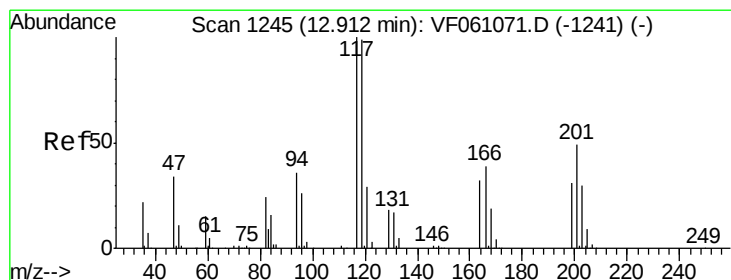
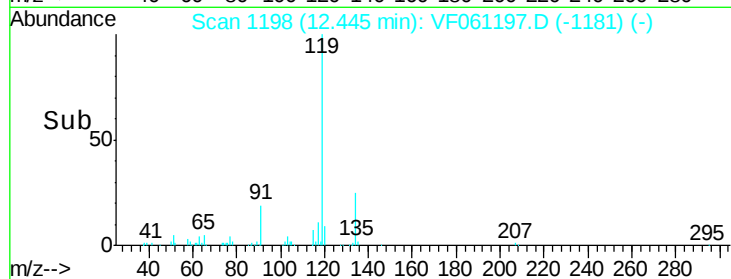
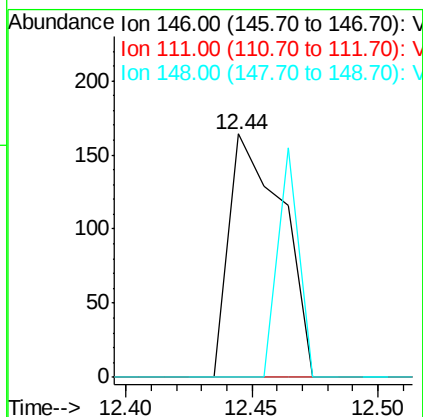
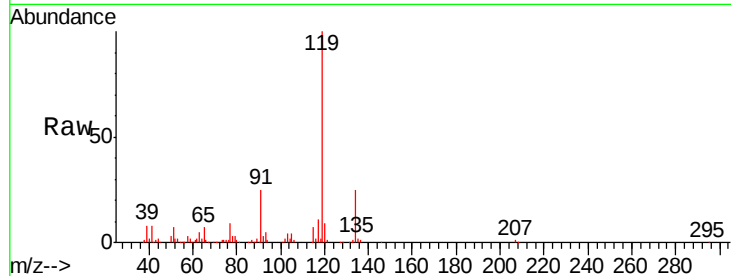




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

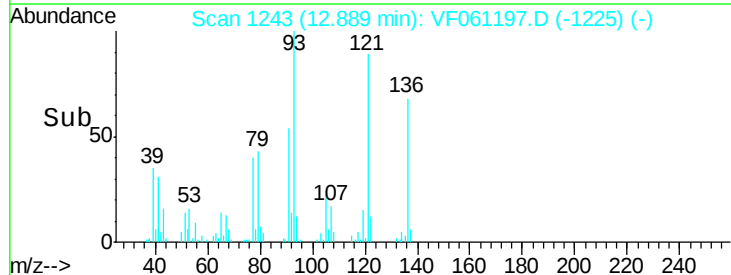
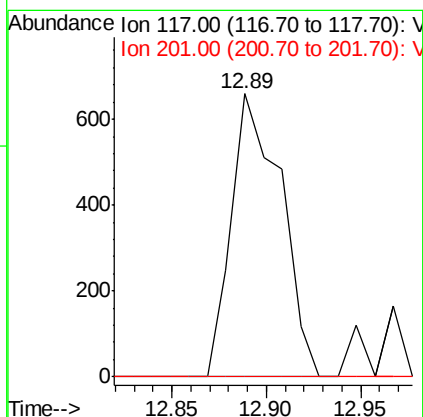
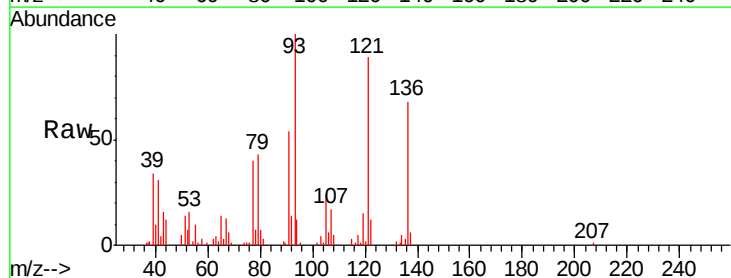
Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS021-0006-01RE

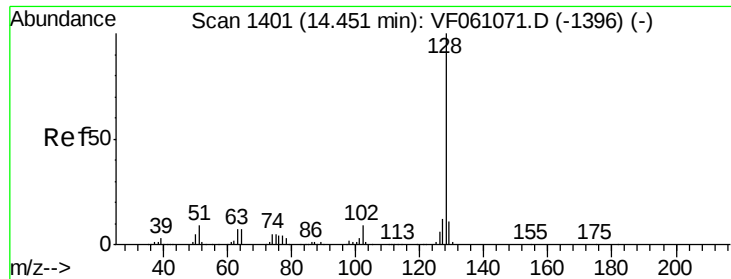
Tgt Ion:146 Resp: 242
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.3 57.9#
 148 0.0 32.4 97.2#



#90
 Hexachloroethane
 Concen: 2.413 ug/l
 RT: 12.89 min Scan# 1243
 Delta R.T. -0.02 min
 Lab File: VF061197.D
 Acq: 26 Dec 2018 19:28

Tgt Ion:117 Resp: 1196
 Ion Ratio Lower Upper
 117 100
 201 0.0 24.9 74.8#





#95
Naphthalene
Concen: 1.023 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061197.D
Acq: 26 Dec 2018 19:28

Instrument :
MSVOA_F
ClientSampleId :
P001-SS021-0006-01RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.4	14.2#
129	13.7	8.8	13.2#

