

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061087.D
 Acq On : 19 Dec 2018 16:14
 Operator : VA/AP
 Sample : J6388-08
 Misc : 5.46g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:23:41 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	4.86	168	201034	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.59	114	335347	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	281537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	119910	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	94926	36.71	ug/l	-0.01
Spiked Amount			Recovery	=	73.42%	
35) Dibromofluoromethane	4.10	113	113717	42.33	ug/l	-0.01
Spiked Amount			Recovery	=	84.66%	
50) Toluene-d8	7.55	98	264882	34.79	ug/l	0.00
Spiked Amount			Recovery	=	69.58%	
62) 4-Bromofluorobenzene	11.41	95	111590	31.80	ug/l	0.00
Spiked Amount			Recovery	=	63.60%	

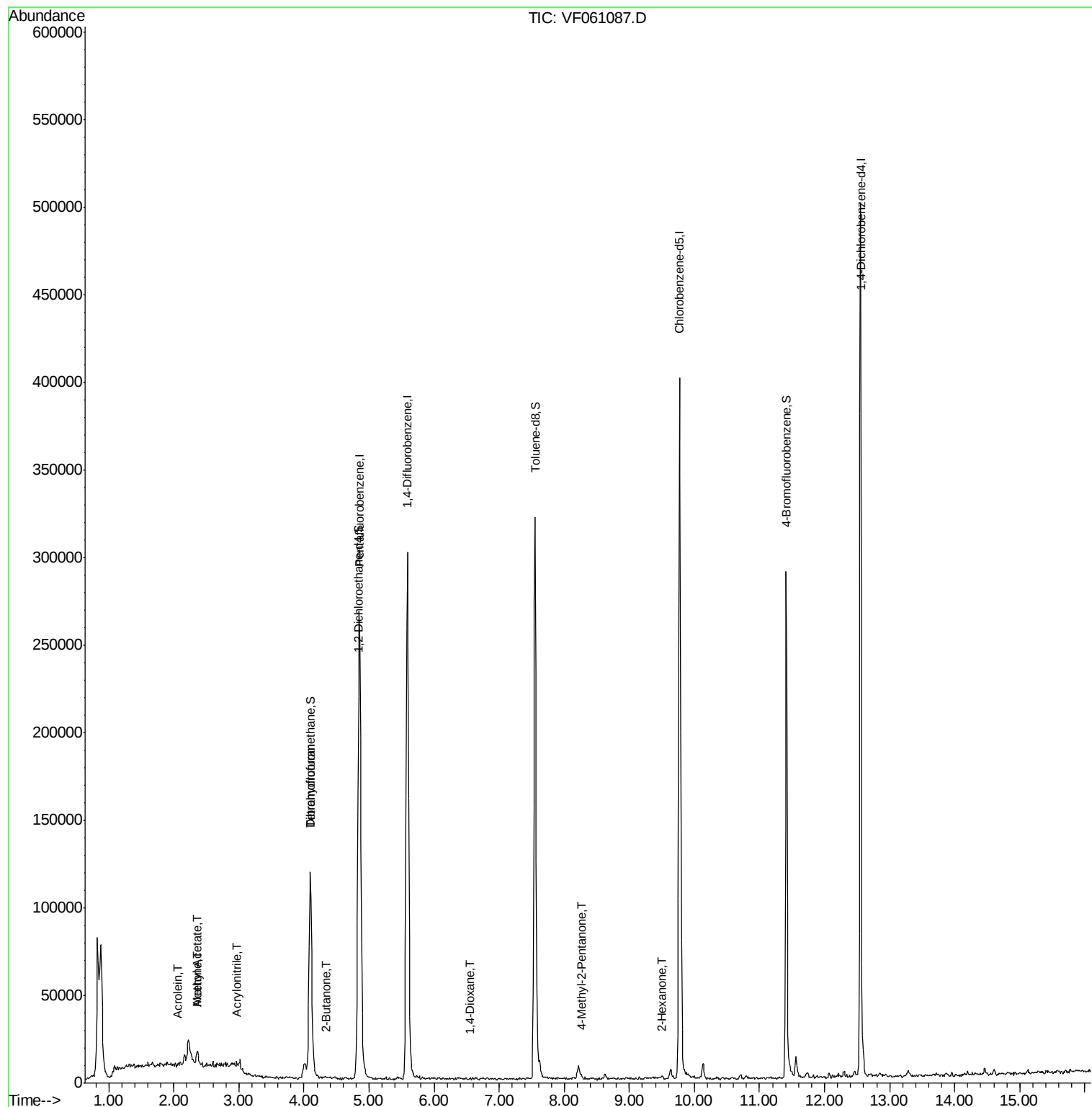
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.08	56	422	5.597	ug/l	97
15) Acrylonitrile	2.97	53	411	1.703	ug/l #	54
16) Acetone	2.36	43	1659	3.210	ug/l	93
18) Methyl Acetate	2.36	43	2340	2.188	ug/l #	66
20) Methylene Chloride	2.17	84	2298	Below Cal		84
25) 2-Butanone	4.35	43	1492	1.780	ug/l #	57
29) Tetrahydrofuran	4.10	42	1101	3.227	ug/l #	37
49) 1,4-Dioxane	6.54	88	67	6.767	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	1358	1.013	ug/l #	64
59) 2-Hexanone	9.50	43	1228	1.267	ug/l	92
70) Styrene	10.80	104	805	Below Cal	#	75
78) n-propylbenzene	11.60	91	1197	Below Cal		98
87) 1,3-Dichlorobenzene	12.47	146	346	Below Cal	#	37

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

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Instrument :

MSVOA_F

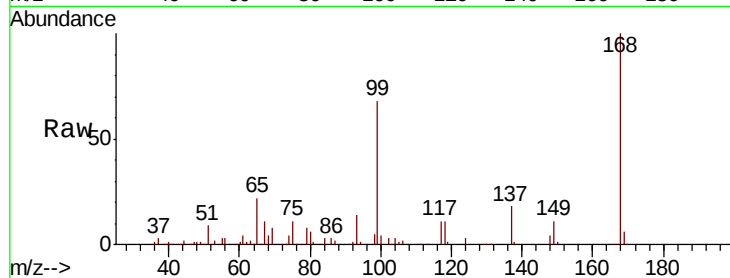
ClientSampleId :

Tot Ion:168 Resp: 201034

Ion Ratio Lower Upper

168 100

99 68.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

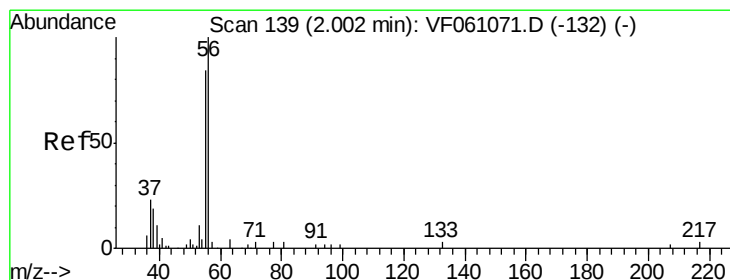
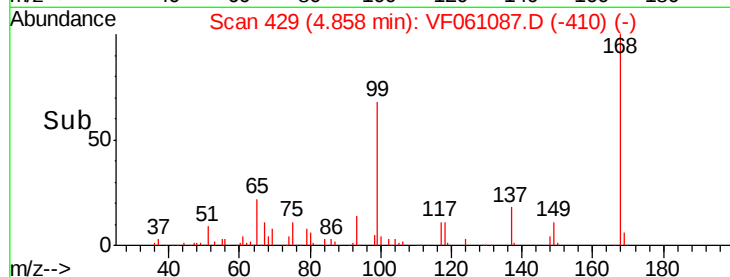
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 5.597 ug/l

RT: 2.08 min Scan# 147

Delta R.T. 0.07 min

Lab File: VF061087.D

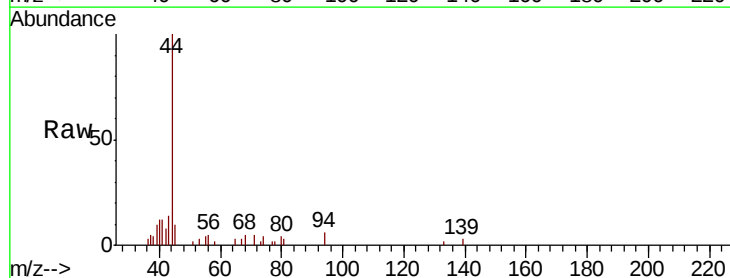
Acq: 19 Dec 2018 16:14

Tgt Ion: 56 Resp: 422

Ion Ratio Lower Upper

56 100

55 84.9 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

300

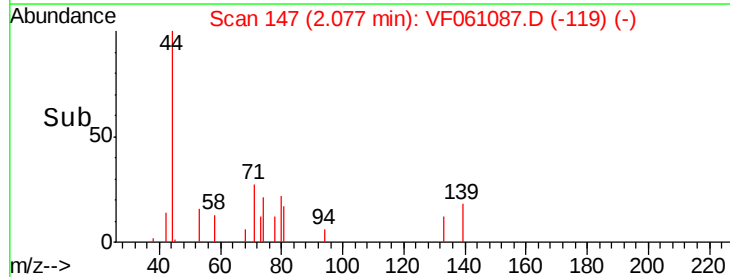
200

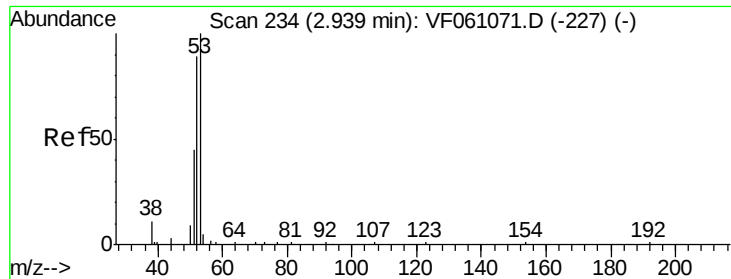
100

0

Time-->

2.02 2.04 2.06 2.08 2.10





#15

Acrylonitrile

Concen: 1.703 ug/l

RT: 2.97 min Scan# 238

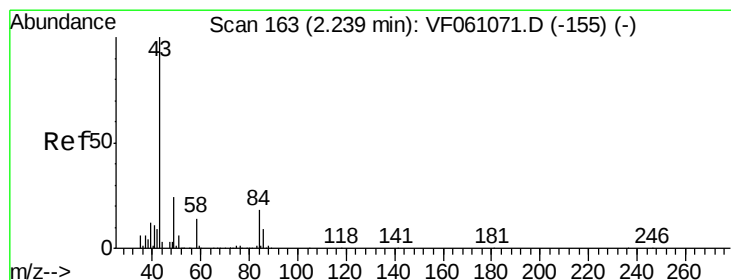
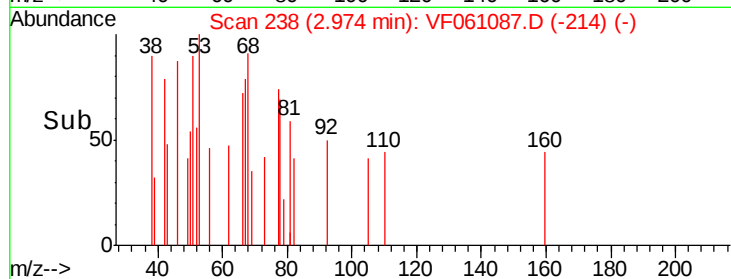
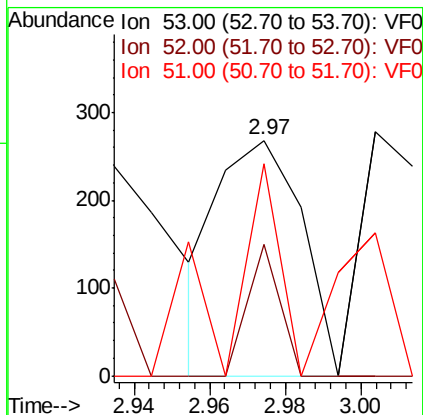
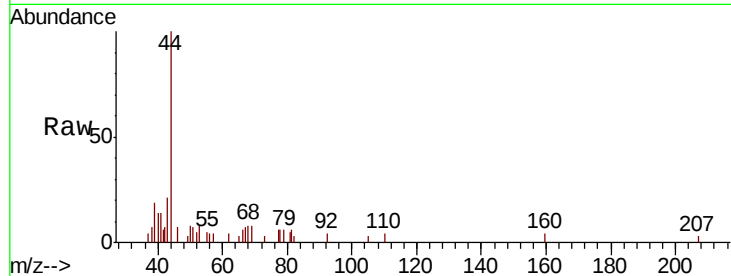
Delta R.T. 0.03 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	411
Ion	Ratio	Lower	Upper
53	100		
52	56.0	71.3	106.9#
51	89.9	36.8	55.2#



#16

Acetone

Concen: 3.210 ug/l

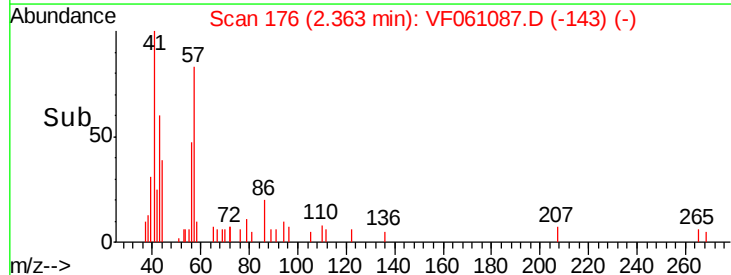
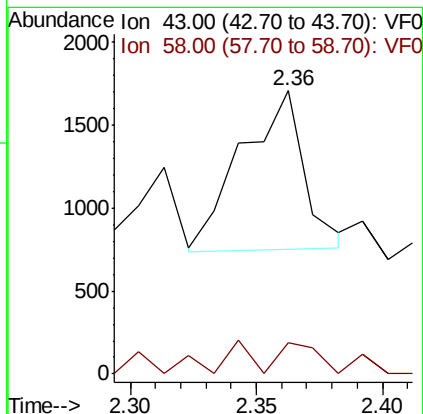
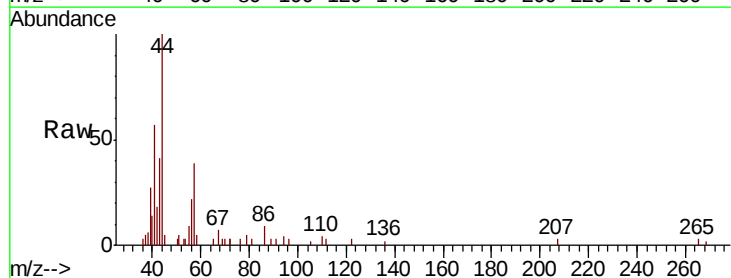
RT: 2.36 min Scan# 176

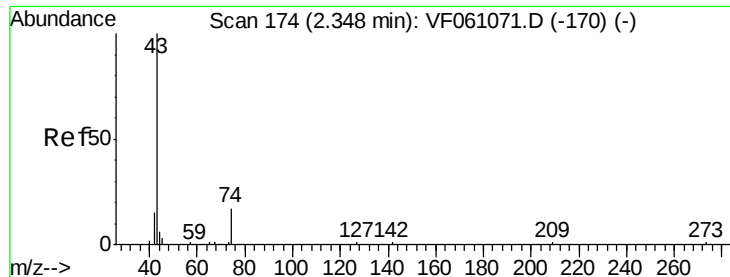
Delta R.T. 0.12 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Tgt Ion:	43	Resp:	1659
Ion	Ratio	Lower	Upper
43	100		
58	11.2	11.1	16.7

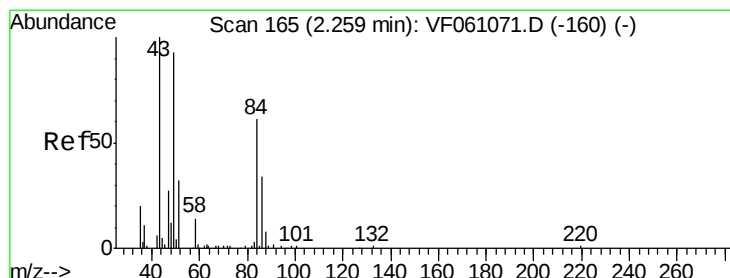
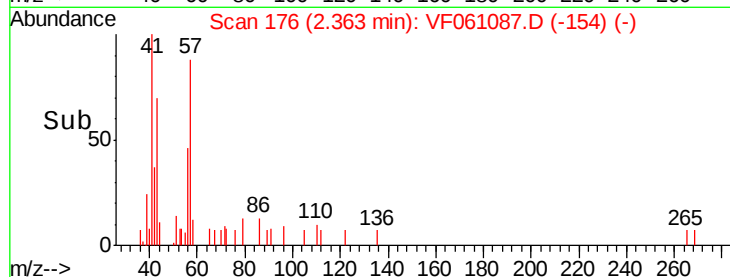
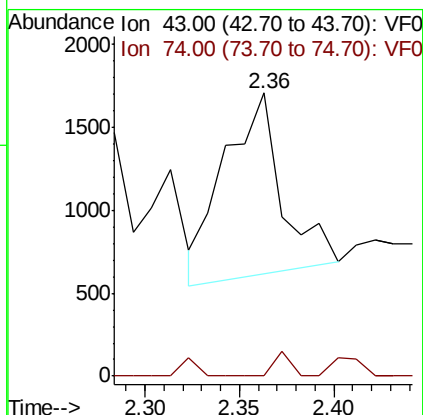
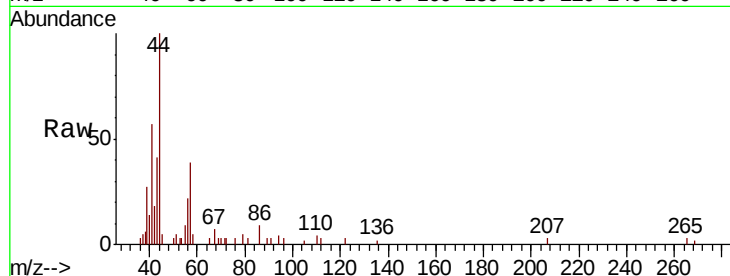




#18
Methyl Acetate
Concen: 2.188 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

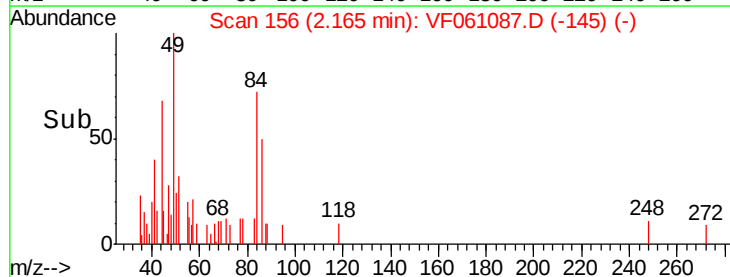
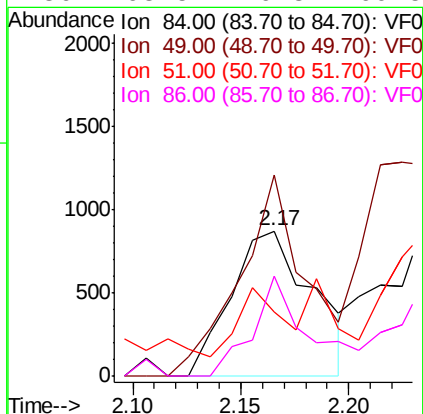
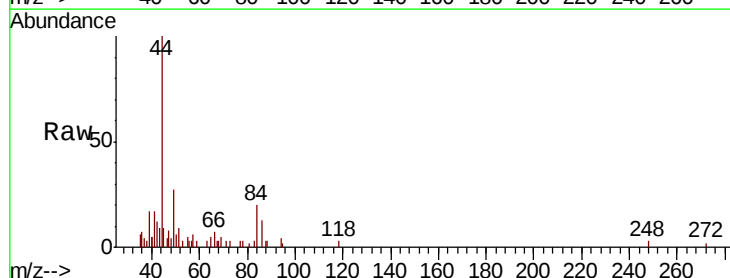
Instrument :
MSVOA_F
ClientSampled :

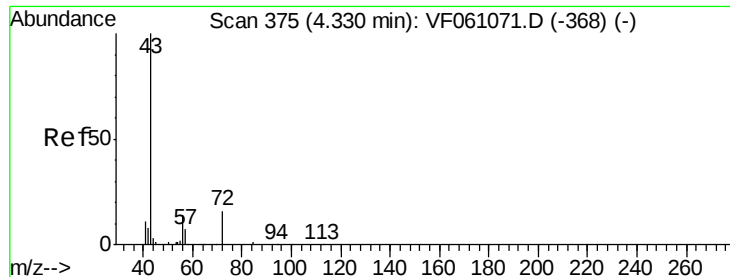
Tot Ion: 43 Resp: 2340
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.17 min Scan# 156
Delta R.T. -0.09 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

Tgt Ion: 84 Resp: 2298
Ion Ratio Lower Upper
84 100
49 138.4 129.4 194.2
51 44.3 44.0 66.0
86 68.5 46.3 69.5





#25

2-Butanone

Concen: 1.780 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

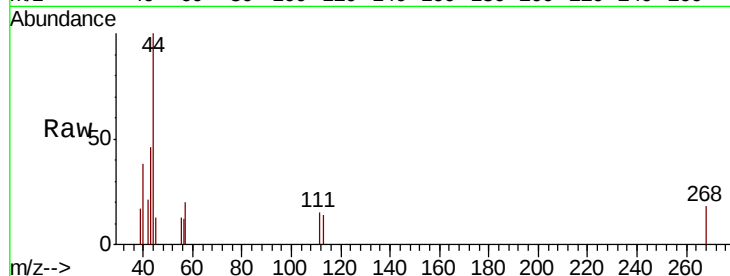
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1492

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.35

400

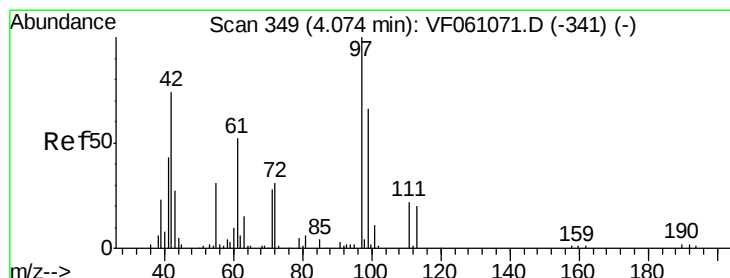
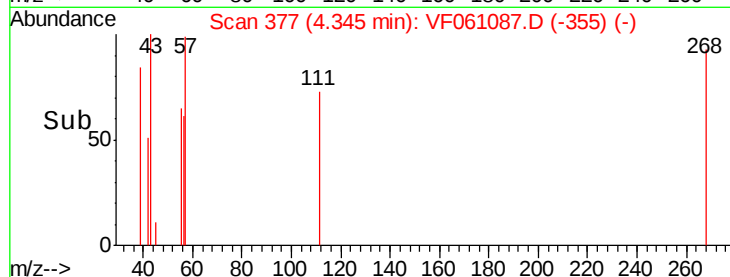
300

200

100

0

Time--> 4.25 4.30 4.35



#29

Tetrahydrofuran

Concen: 3.227 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

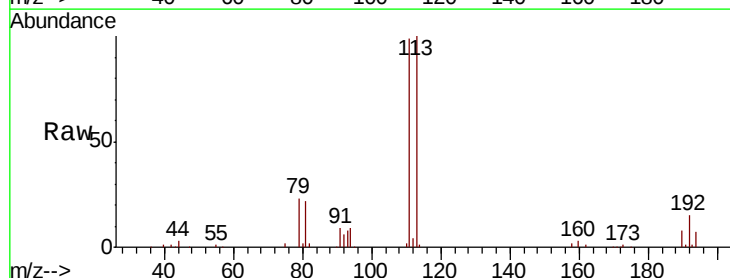
Tgt Ion: 42 Resp: 1101

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#



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

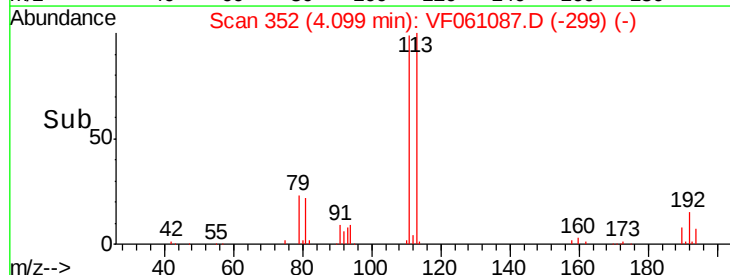
300

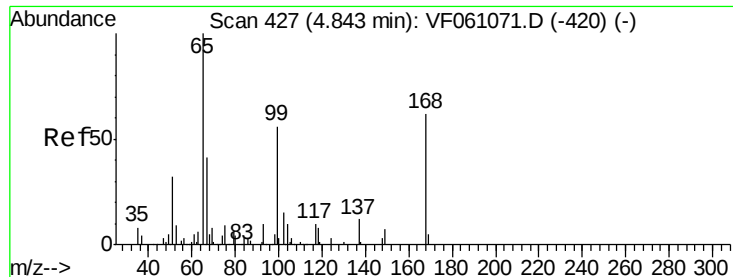
200

100

0

Time--> 4.00 4.05 4.10 4.15 4.20

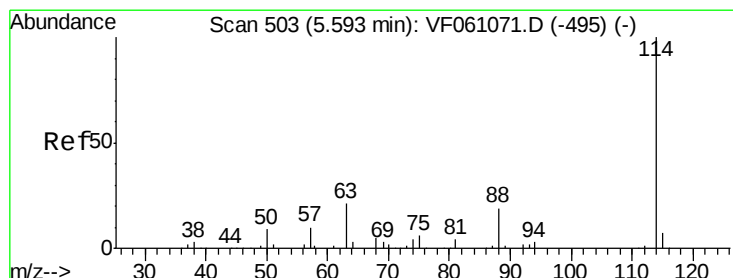
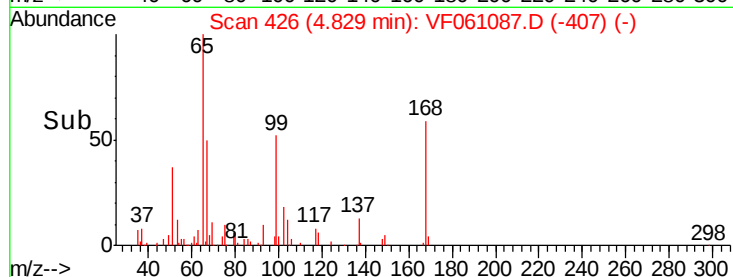
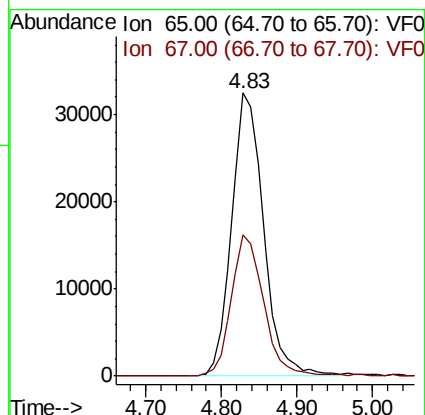
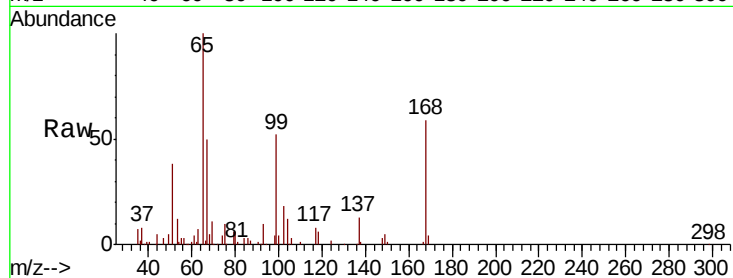




#33
 1,2-Dichloroethane-d4
 Concen: 36.713 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.01 min
 Lab File: VF061087.D
 Acq: 19 Dec 2018 16:14

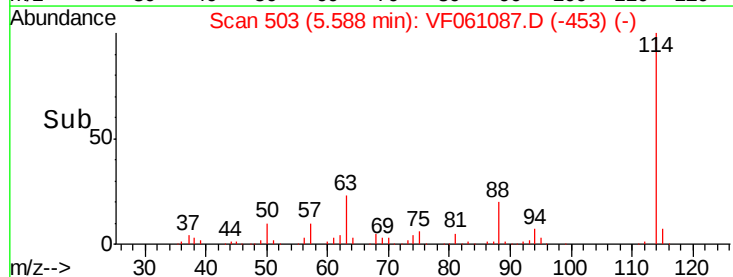
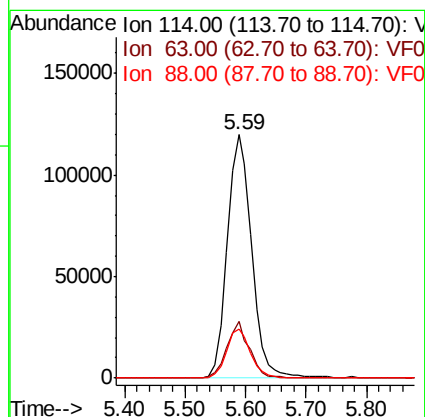
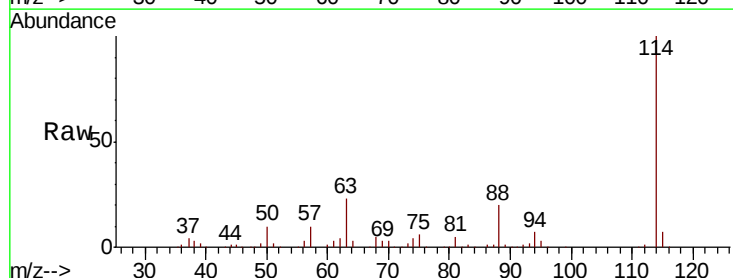
Instrument :
 MSVOA_F
 ClientSampleID :

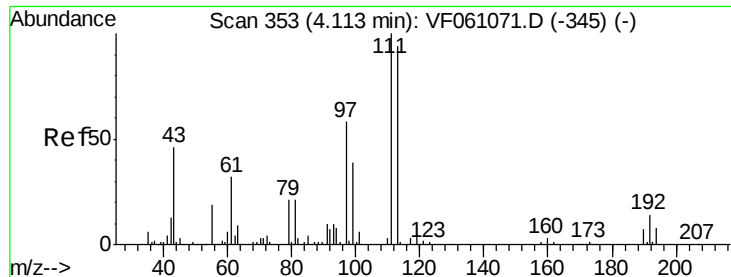
Tot Ion: 65 Resp: 94926
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061087.D
 Acq: 19 Dec 2018 16:14

Tgt Ion: 114 Resp: 335347
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 41.6
 88 20.3 0.0 38.0





#35

Dibromofluoromethane

Concen: 42.332 ug/l

RT: 4.10 min Scan# 352

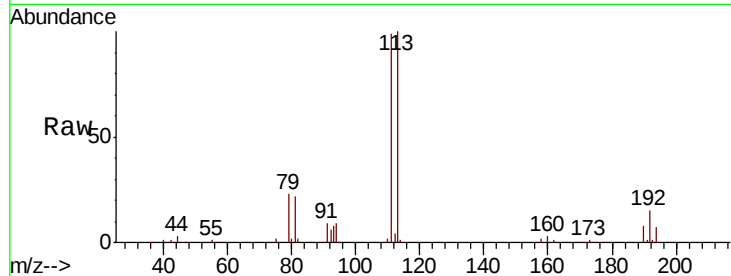
Delta R.T. -0.01 min

Lab File: VF061087.D

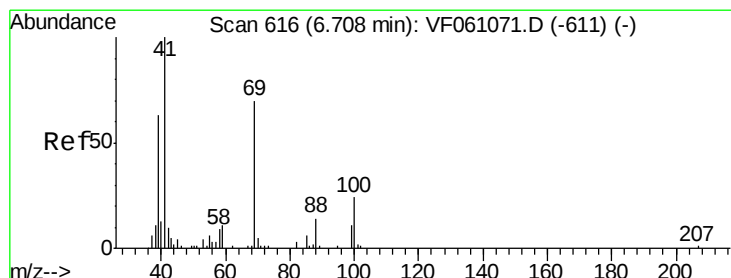
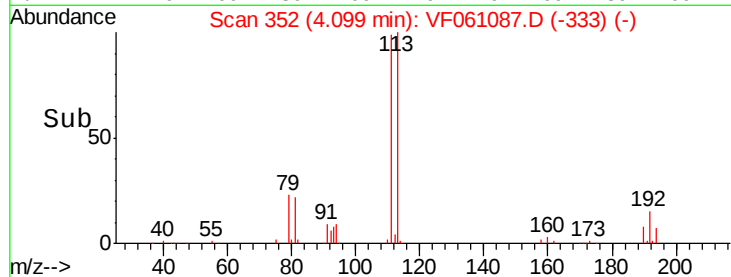
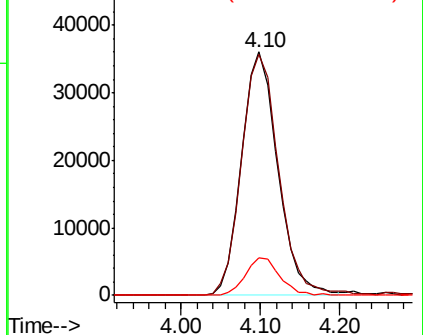
Acq: 19 Dec 2018 16:14

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	113	Resp:	113717
Ion	Ratio	Lower	Upper
113	100		
111	99.3	85.2	127.8
192	16.0	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



#49

1,4-Dioxane

Concen: 6.767 ug/l

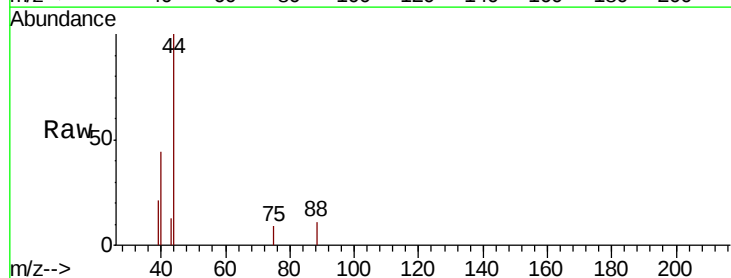
RT: 6.54 min Scan# 599

Delta R.T. -0.17 min

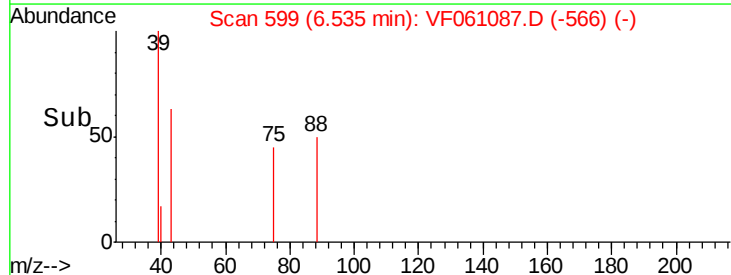
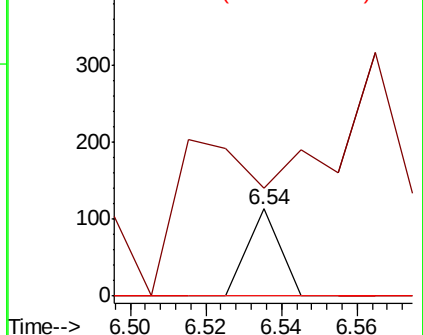
Lab File: VF061087.D

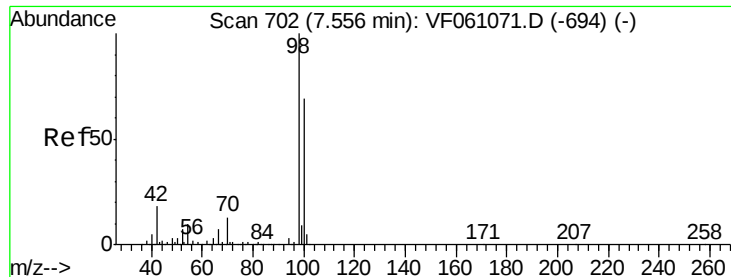
Acq: 19 Dec 2018 16:14

Tgt Ion:	88	Resp:	67
Ion	Ratio	Lower	Upper
88	100		
43	123.9	33.3	49.9#
58	0.0	53.2	79.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 34.795 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Instrument :

MSVOA_F

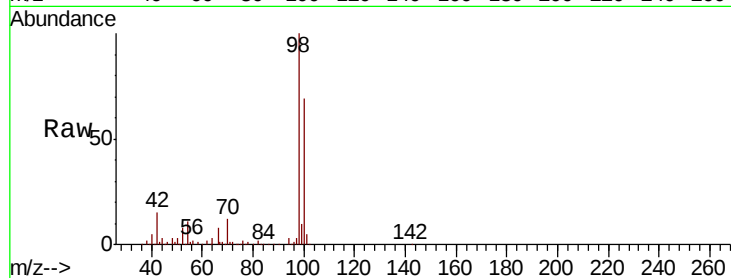
ClientSampleId :

Tot Ion: 98 Resp: 264882

Ion Ratio Lower Upper

98 100

100 69.2 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

120000

100000

80000

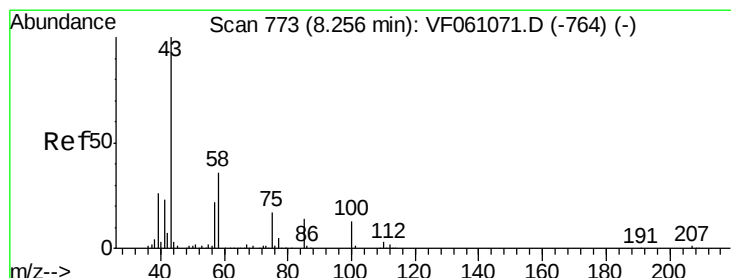
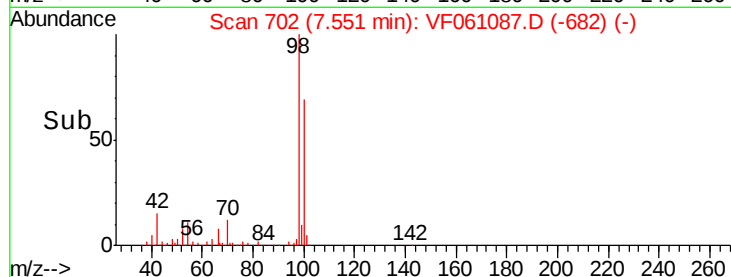
60000

40000

20000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.013 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061087.D

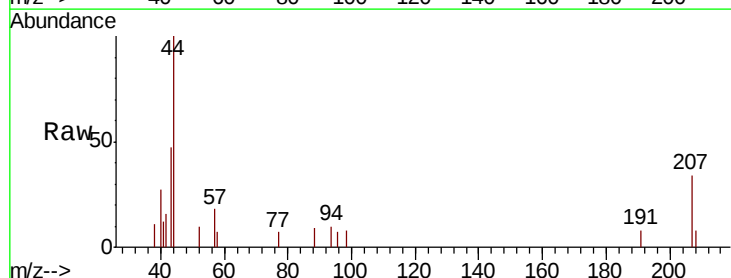
Acq: 19 Dec 2018 16:14

Tgt Ion: 43 Resp: 1358

Ion Ratio Lower Upper

43 100

58 15.1 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

800

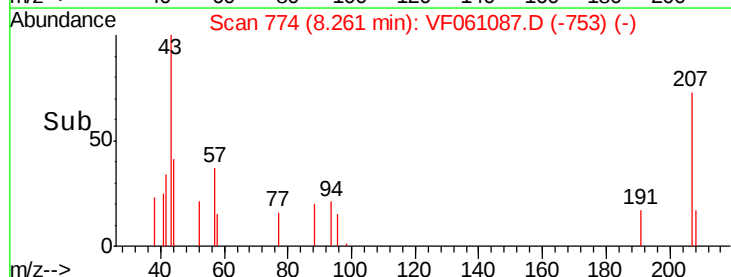
600

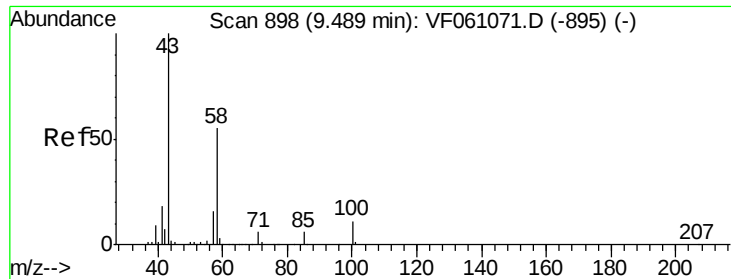
400

200

0

Time--> 8.20 8.25 8.30

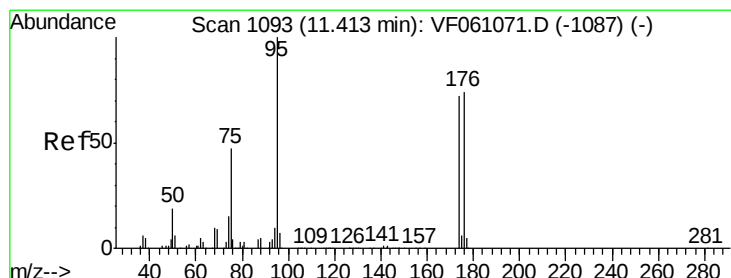
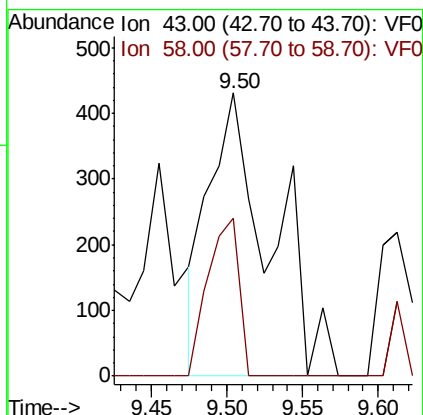
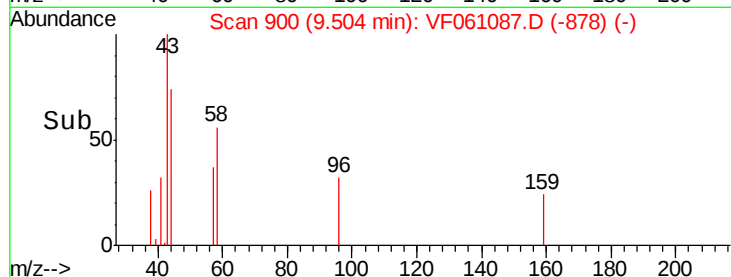
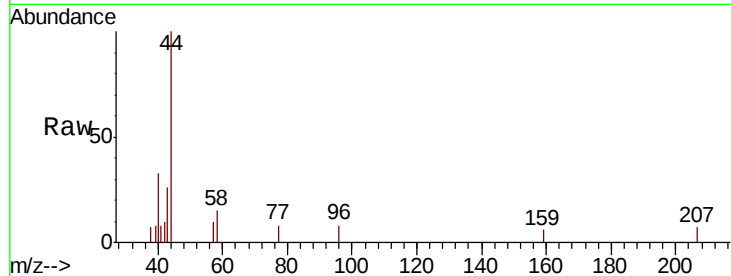




#59
2-Hexanone
Concen: 1.267 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

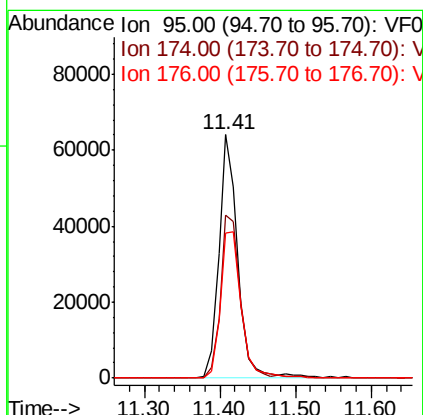
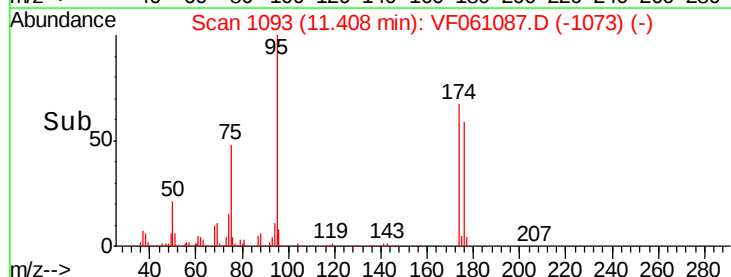
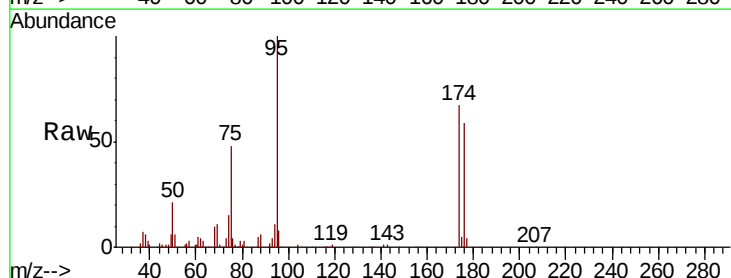
Instrument :
MSVOA_F
ClientSampled :

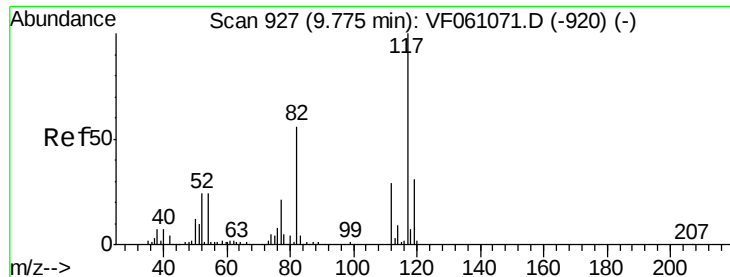
Tot Ion: 43 Resp: 1228
Ion Ratio Lower Upper
43 100
58 55.9 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 31.796 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

Tgt Ion: 95 Resp: 111590
Ion Ratio Lower Upper
95 100
174 66.8 0.0 143.8
176 59.4 0.0 147.6

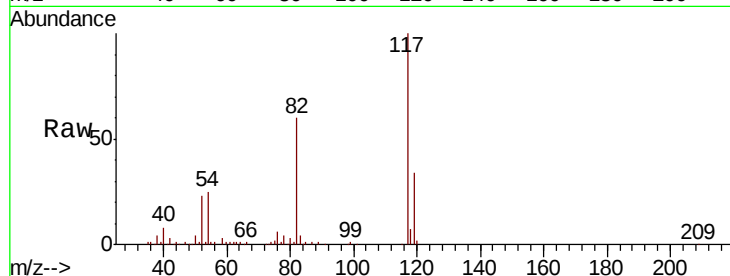




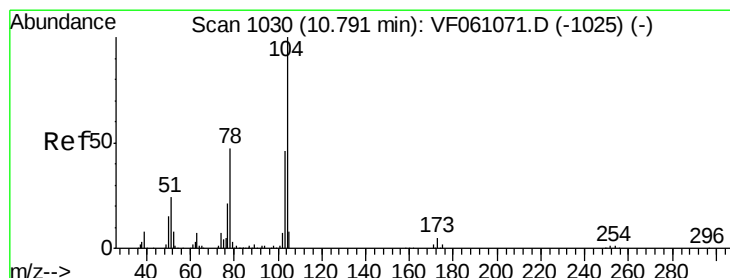
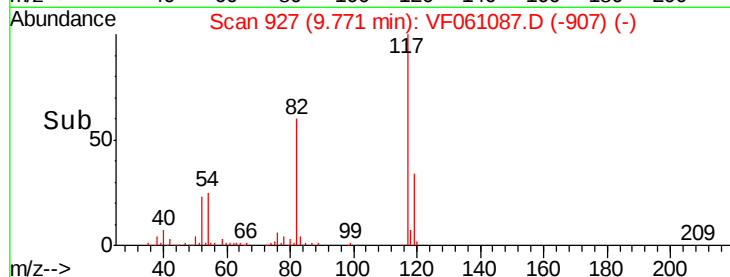
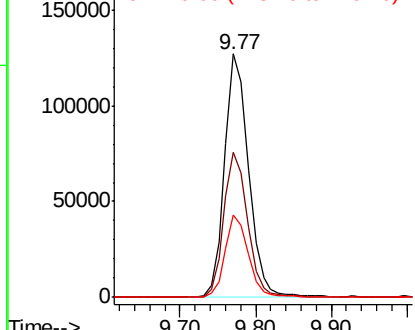
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.6	45.0	67.4
119	33.7	24.8	37.2

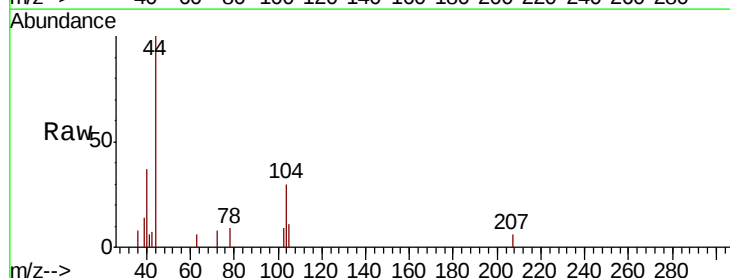


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

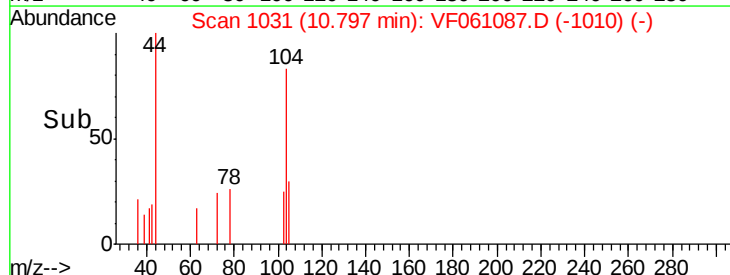
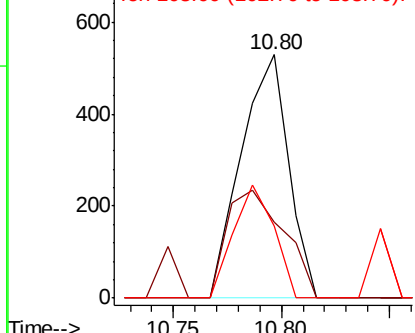


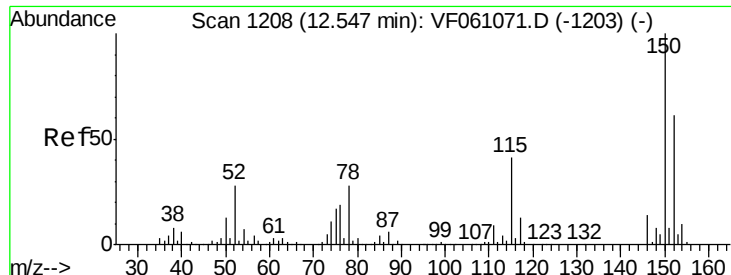
#70
Styrene
Concen: Below Cal
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061087.D
Acq: 19 Dec 2018 16:14

Tgt Ion	Ratio	Lower	Upper
104	100		
78	31.0	38.4	57.6#
103	29.7	37.0	55.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

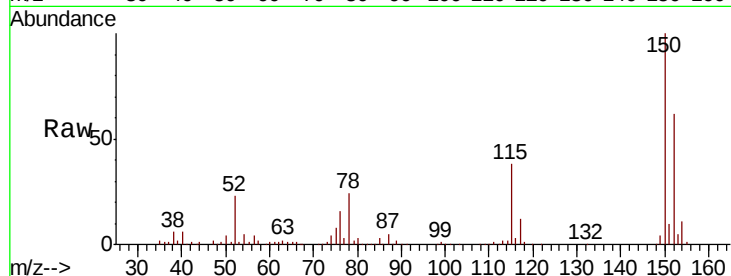
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:152 Resp: 119910

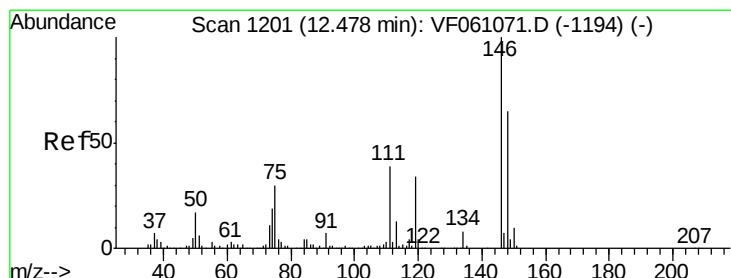
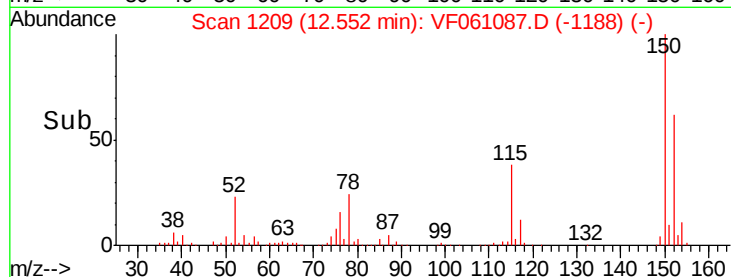
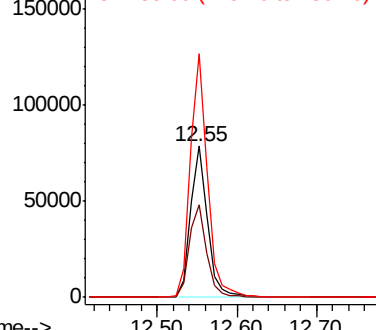
Ion	Ratio	Lower	Upper
152	100		
115	61.7	33.3	99.9
150	161.2	0.0	328.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.47 min Scan# 1201

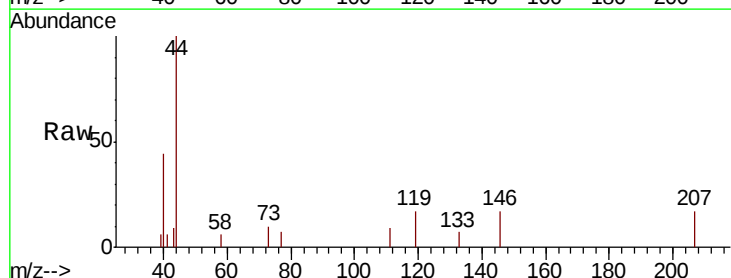
Delta R.T. -0.00 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Tgt Ion:146 Resp: 346

Ion	Ratio	Lower	Upper
146	100		
111	56.7	19.3	57.9
148	0.0	32.4	97.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

