

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060905.D
 Acq On : 3 Dec 2018 21:43
 Operator : VA/AP
 Sample : J6158-01
 Misc : 7.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0488

Quant Time: Dec 04 03:13:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	124442	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	302473	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	297068	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	144022	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	115402	78.72	ug/l	-0.01
Spiked Amount						
			Recovery	=	157.44%	
35) Dibromofluoromethane	4.14	113	120080	50.04	ug/l	-0.01
Spiked Amount						
			Recovery	=	100.08%	
50) Toluene-d8	7.58	98	310138	43.88	ug/l	-0.01
Spiked Amount						
			Recovery	=	87.76%	
62) 4-Bromofluorobenzene	11.42	95	147878	46.03	ug/l	-0.01
Spiked Amount						
			Recovery	=	92.06%	

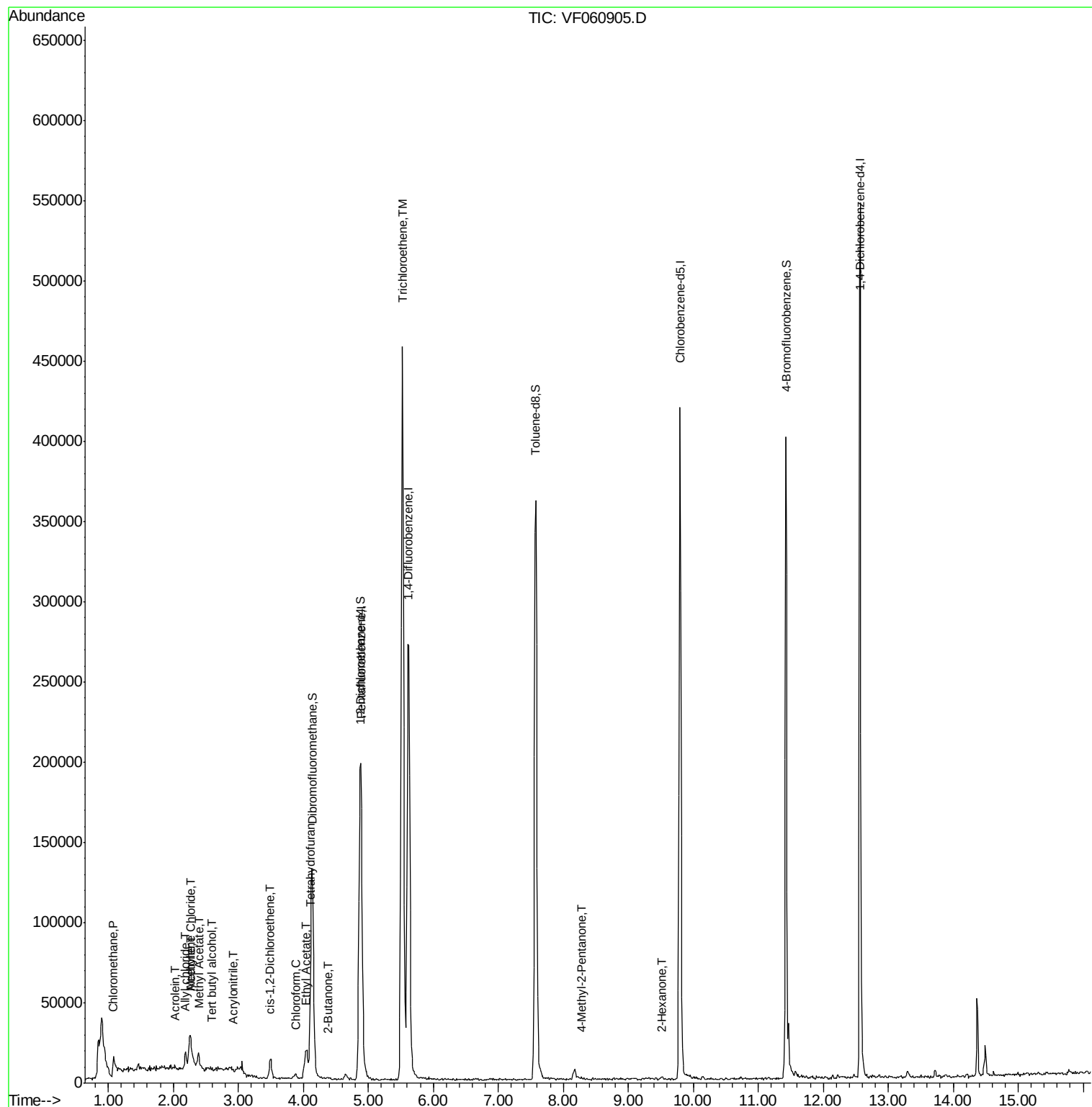
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	1458	1.204	ug/l #	41
11) Tert butyl alcohol	2.60	59	67	1.115	ug/l #	1
13) Acrolein	2.02	56	437	7.675	ug/l #	66
14) Allyl chloride	2.17	41	2161	1.760	ug/l #	41
15) Acrylonitrile	2.92	53	903	6.703	ug/l #	34
16) Acetone	2.25	43	20058	74.197	ug/l	98
18) Methyl Acetate	2.39	43	4516	8.590	ug/l #	61
20) Methylene Chloride	2.27	84	11710	11.808	ug/l #	90
25) 2-Butanone	4.37	43	3735	7.988	ug/l	99
27) cis-1,2-Dichloroethene	3.49	96	6712	4.340	ug/l	89
29) Tetrahydrofuran	4.11	42	511	2.578	ug/l #	37
30) Chloroform	3.88	83	3239	1.058	ug/l	94
37) Ethyl Acetate	4.04	43	1614	1.184	ug/l #	53
41) Methacrylonitrile	4.79	41	303	Below Cal	#	54
43) Isopropyl Acetate	6.99	43	205	Below Cal	#	49
44) Trichloroethene	5.53	130	210819	86.994	ug/l	99
51) 4-Methyl-2-Pentanone	8.29	43	1694	1.347	ug/l #	80
59) 2-Hexanone	9.53	43	1332	1.510	ug/l	72
95) Naphthalene	14.47	128	2999	Below Cal	#	91

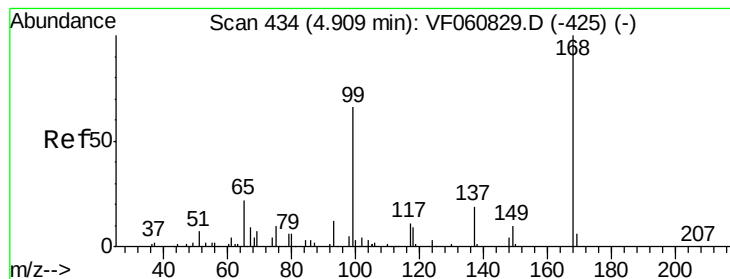
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

Instrument :

MSVOA_F

ClientSampleId :

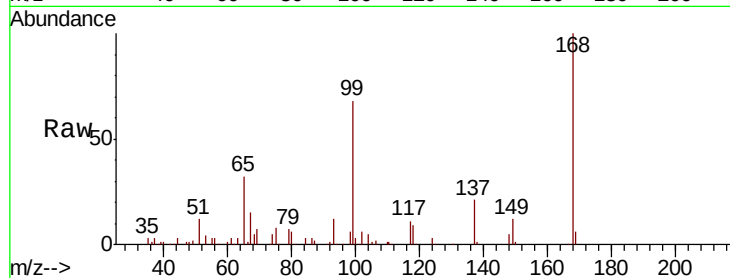
S49-0488

Tot Ion:168 Resp: 124442

Ion Ratio Lower Upper

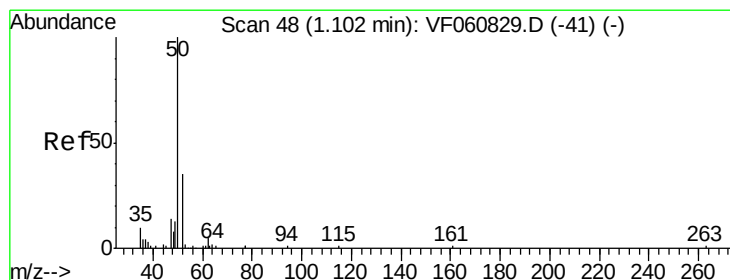
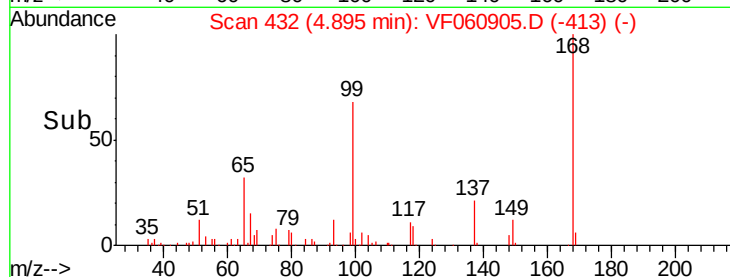
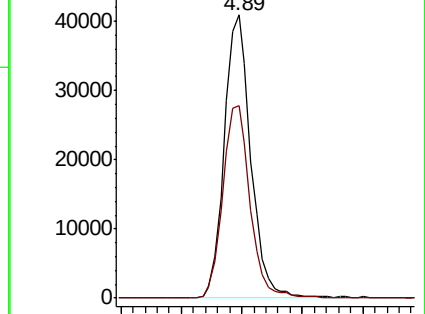
168 100

99 68.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.204 ug/l

RT: 1.08 min Scan# 45

Delta R.T. -0.02 min

Lab File: VF060905.D

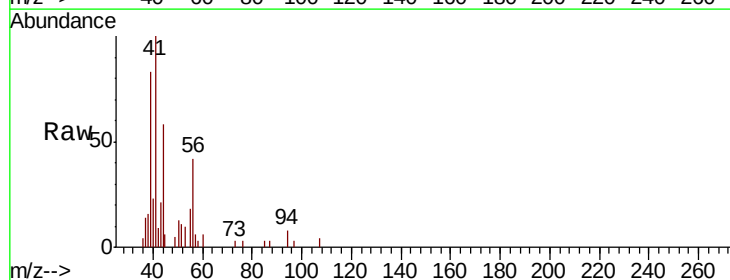
Acq: 3 Dec 2018 21:43

Tgt Ion: 50 Resp: 1458

Ion Ratio Lower Upper

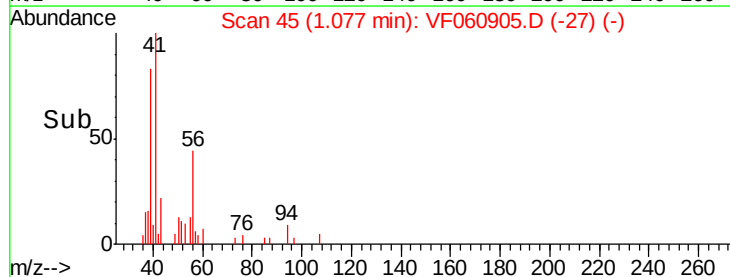
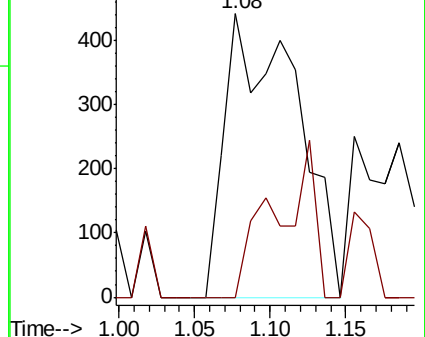
50 100

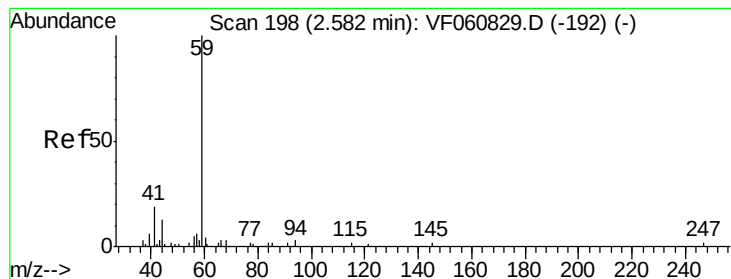
52 0.0 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#11

Tert butyl alcohol

Concen: 1.115 ug/l

RT: 2.60 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

Instrument :

MSVOA_F

ClientSampleId :

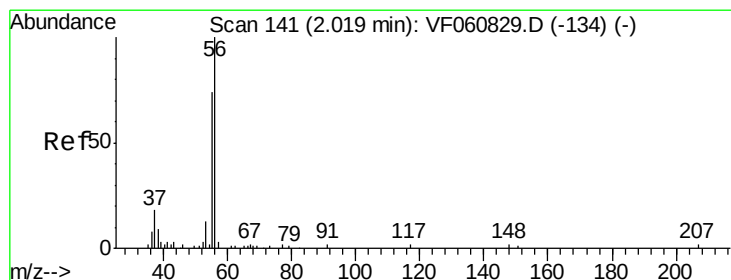
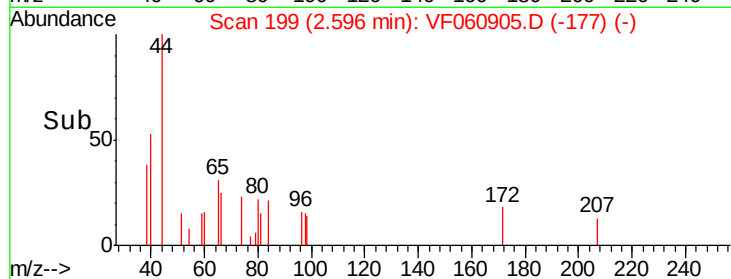
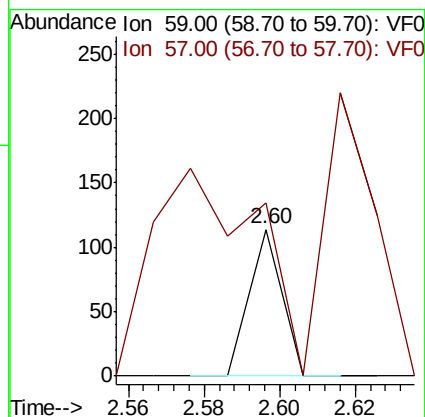
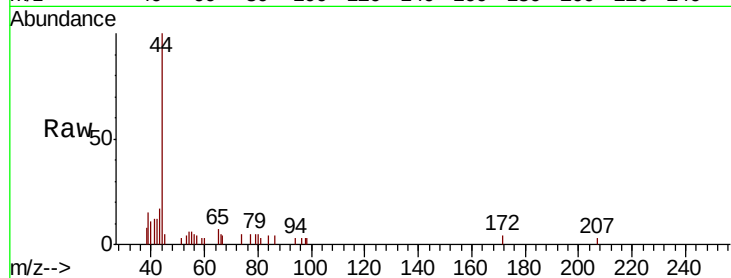
S49-0488

Tot Ion: 59 Resp: 67

Ion Ratio Lower Upper

59 100

57 118.4 12.7 19.1#



#13

Acrolein

Concen: 7.675 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF060905.D

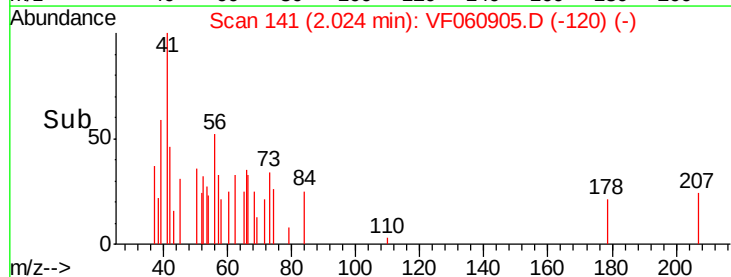
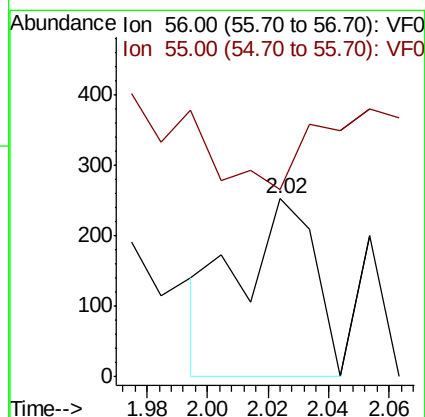
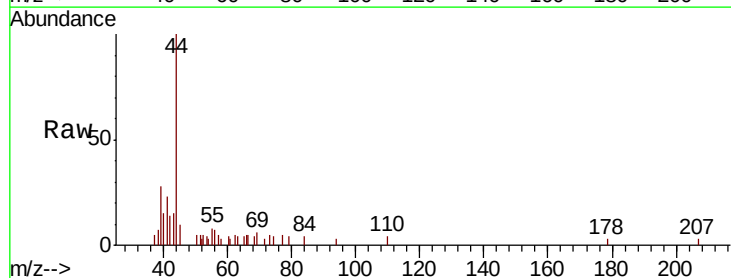
Acq: 3 Dec 2018 21:43

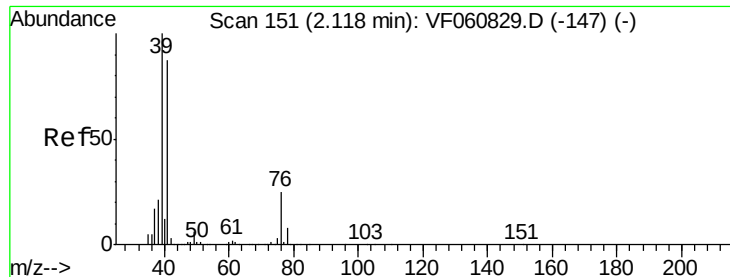
Tgt Ion: 56 Resp: 437

Ion Ratio Lower Upper

56 100

55 105.6 61.2 91.8#

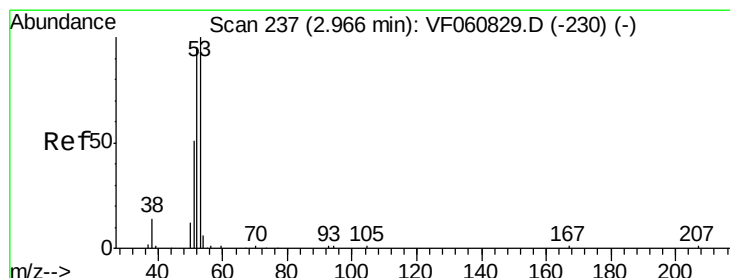
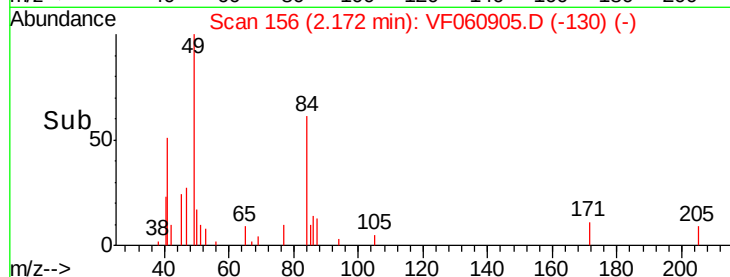
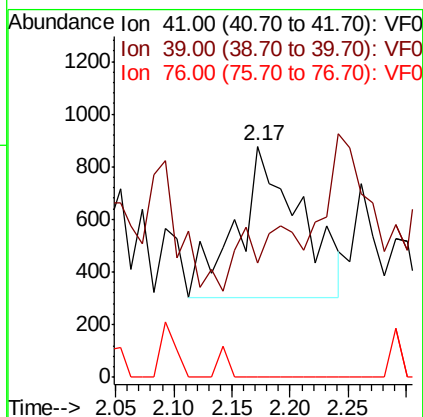
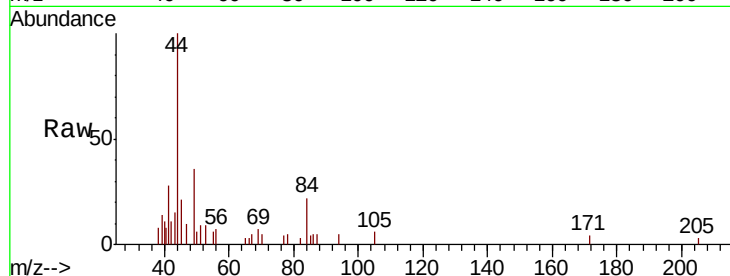




#14
Allvl chloride
Concen: 1.760 ug/l
RT: 2.17 min Scan# 156
Delta R.T. 0.05 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

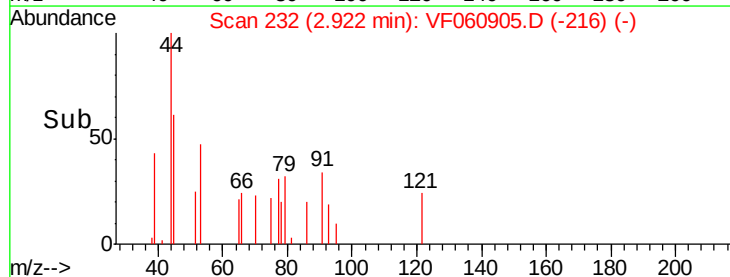
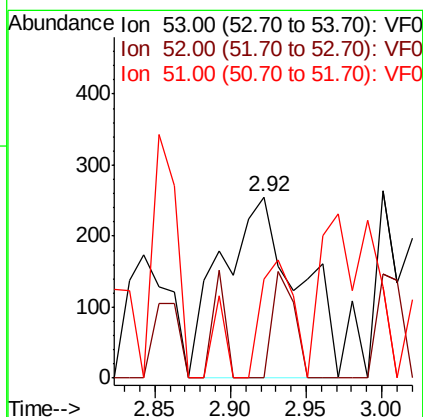
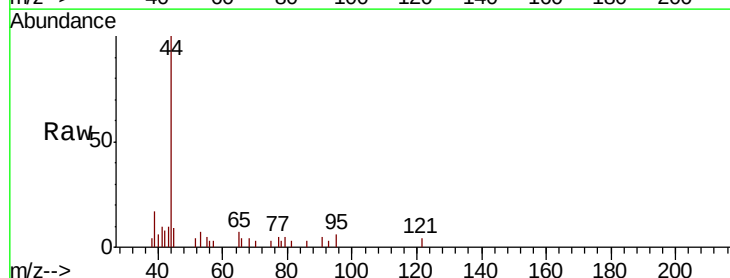
Instrument :
MSVOA_F
ClientSampleId :
S49-0488

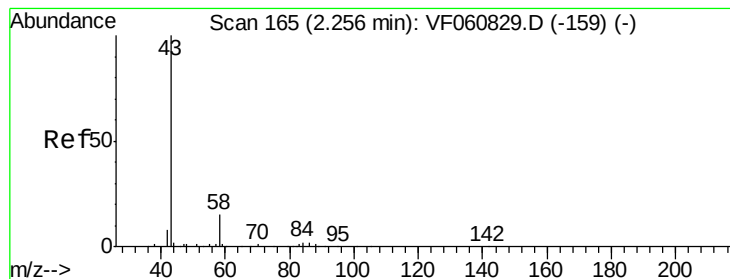
Tot Ion: 41 Resp: 2161
Ion Ratio Lower Upper
41 100
39 49.3 91.7 137.5#
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 6.703 ug/l
RT: 2.92 min Scan# 232
Delta R.T. -0.04 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 53 Resp: 903
Ion Ratio Lower Upper
53 100
52 0.0 76.5 114.7#
51 54.5 40.7 61.1





#16

Acetone

Concen: 74.197 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

Instrument :

MSVOA_F

ClientSampleId :

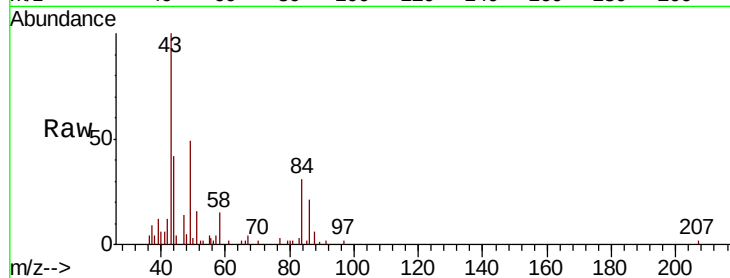
S49-0488

Tot Ion: 43 Resp: 20058

Ion Ratio Lower Upper

43 100

58 15.1 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.25

8000

6000

4000

2000

0

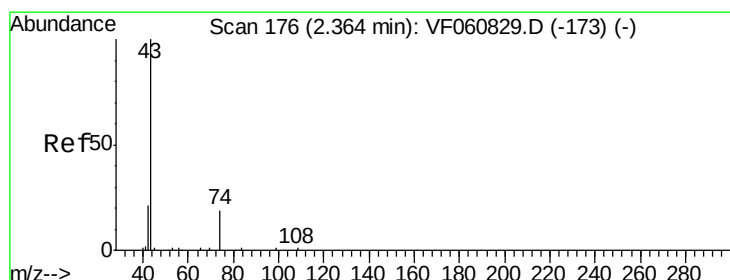
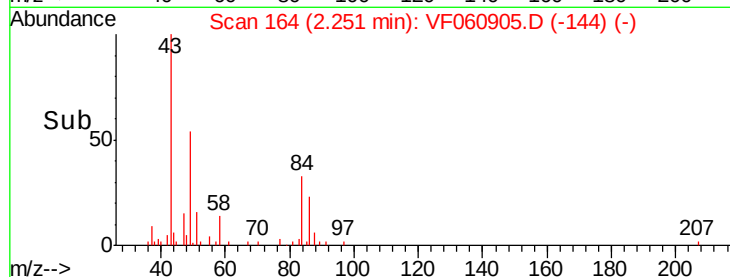
Time-->

2.10

2.20

2.30

2.40



#18

Methyl Acetate

Concen: 8.590 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF060905.D

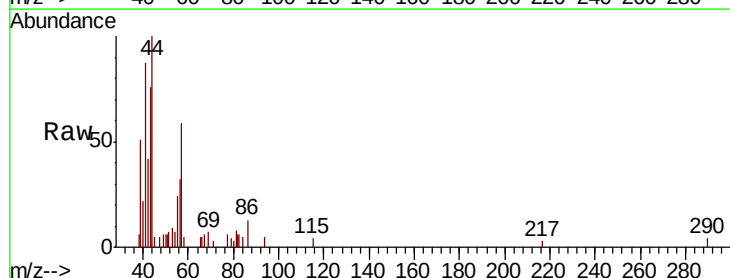
Acq: 3 Dec 2018 21:43

Tgt Ion: 43 Resp: 4516

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.39

2500

2000

1500

1000

500

0

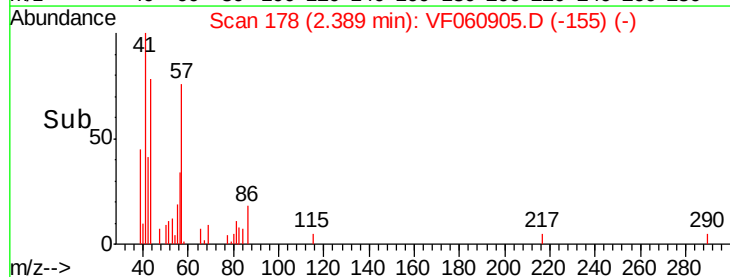
Time-->

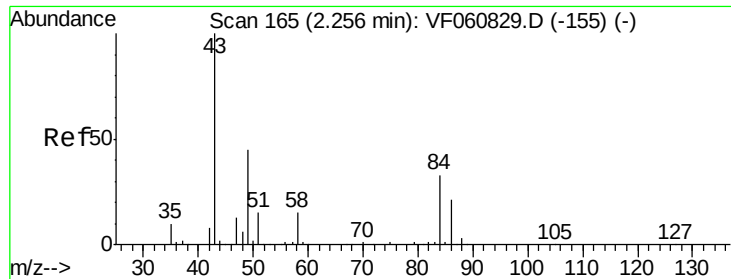
2.30

2.35

2.40

2.45

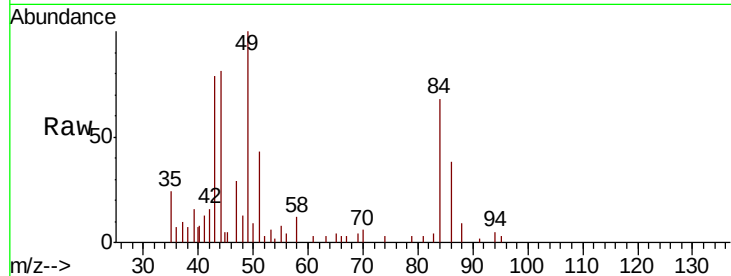




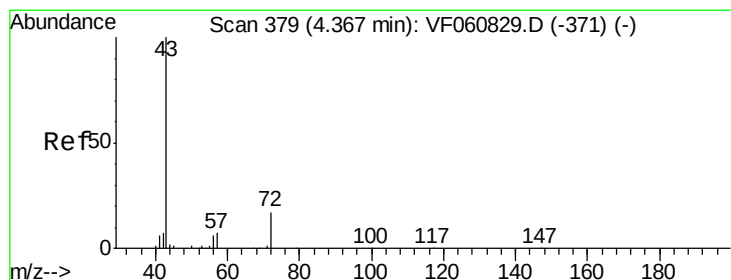
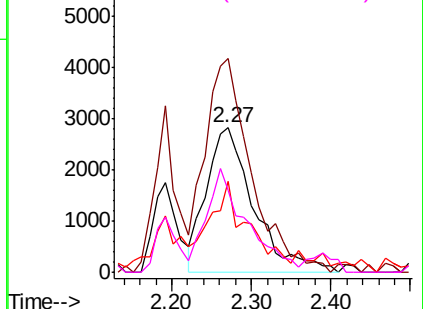
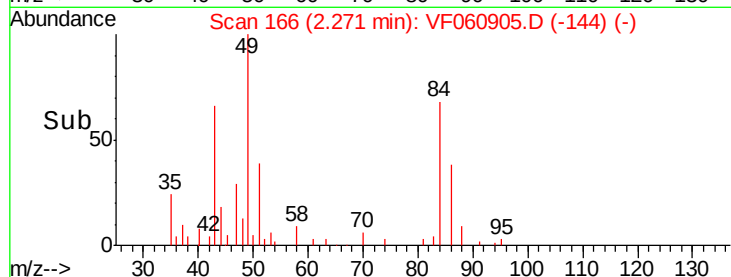
#20
Methylene Chloride
Concen: 11.808 ug/l
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Instrument :
MSVOA_F
ClientSampleId :
S49-0488

Tot Ion: 84 Resp: 11710
Ion Ratio Lower Upper
84 100
49 147.7 111.3 166.9
51 62.9 38.0 57.0#
86 56.2 49.8 74.8

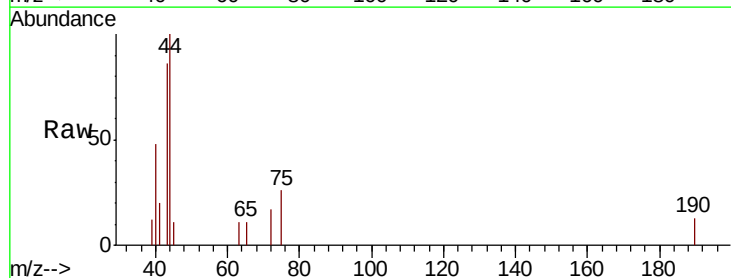


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

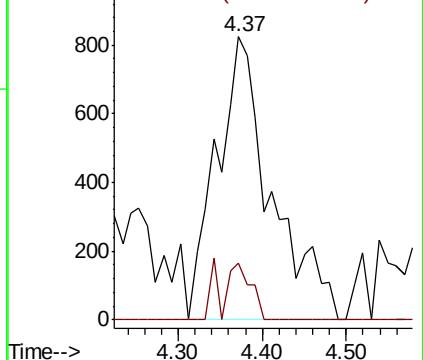
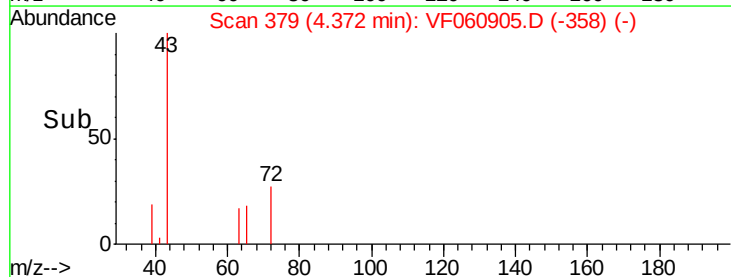


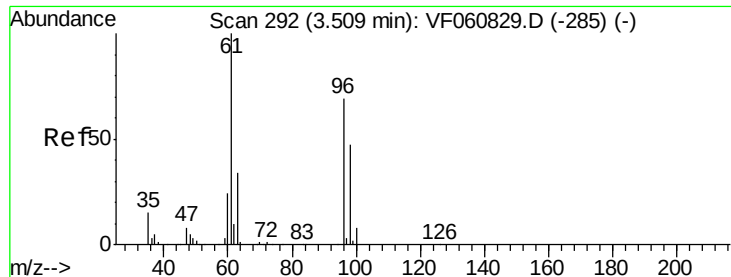
#25
2-Butanone
Concen: 7.988 ug/l
RT: 4.37 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 43 Resp: 3735
Ion Ratio Lower Upper
43 100
72 19.9 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



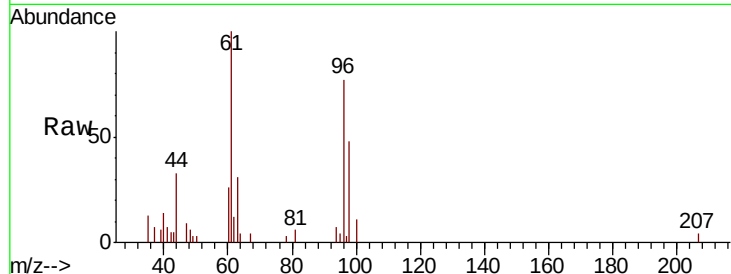


#27

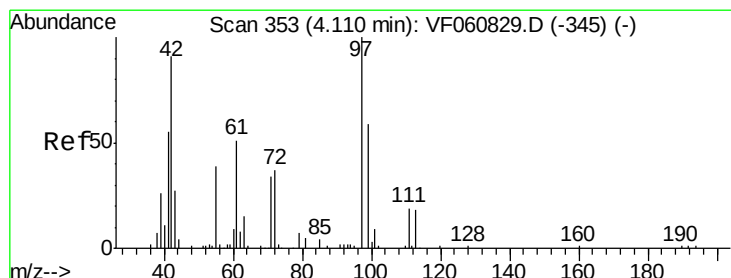
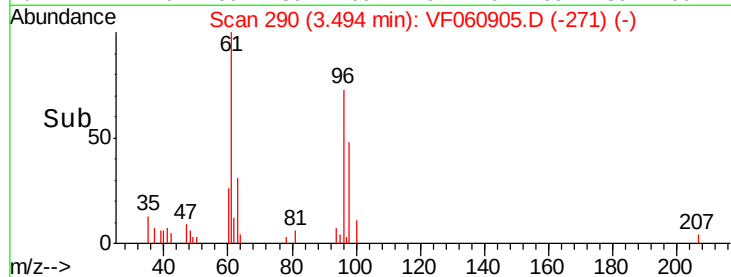
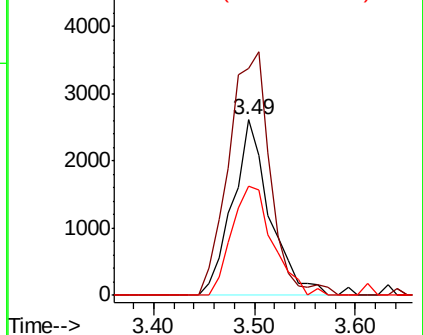
cis-1,2-Dichloroethene
Concen: 4.340 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Instrument :
MSVOA_F
ClientSampleId :
S49-0488

Tot Ion: 96 Resp: 6712
Ion Ratio Lower Upper
96 100
61 129.6 0.0 290.6
98 62.3 0.0 137.8



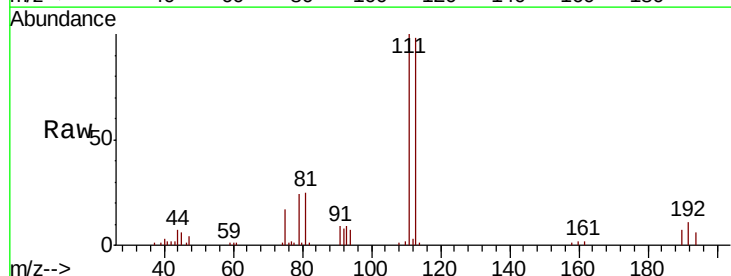
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



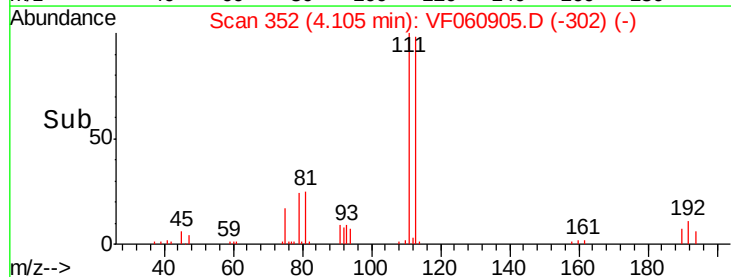
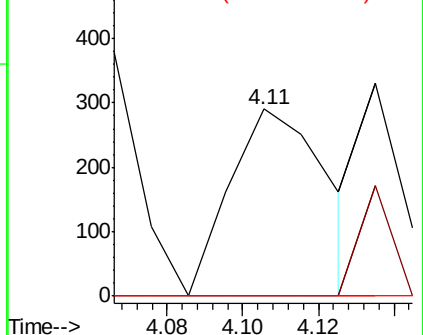
#29

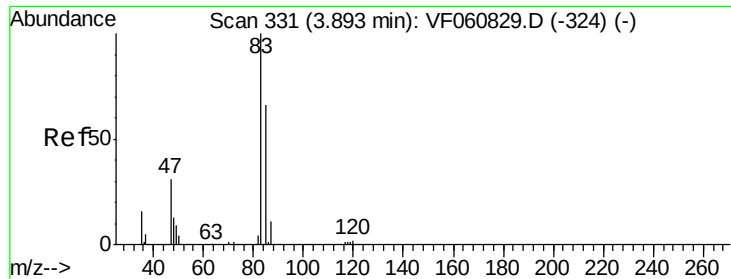
Tetrahydrofuran
Concen: 2.578 ug/l
RT: 4.11 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 42 Resp: 511
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 28.7 43.1#



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

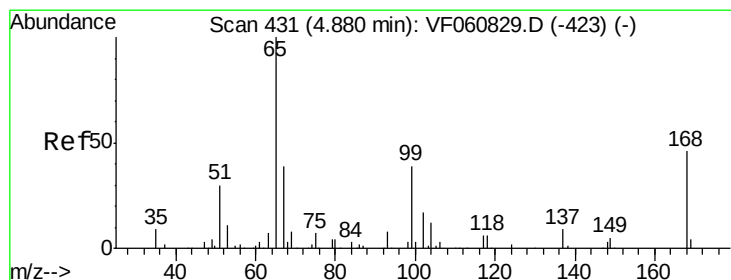
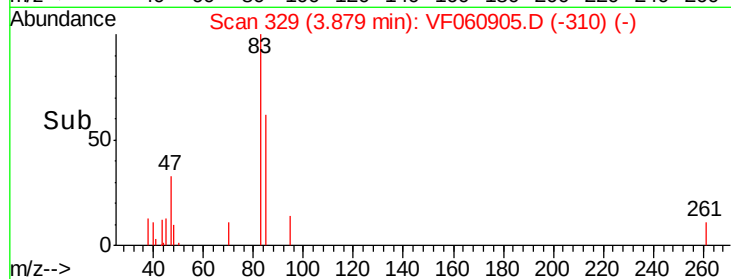
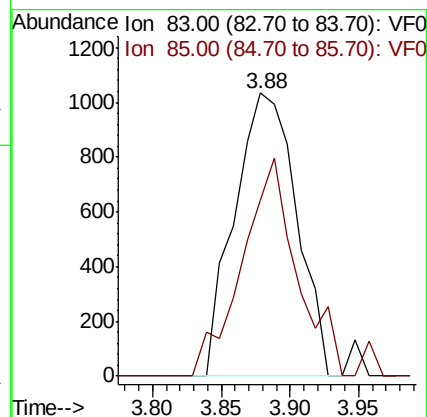
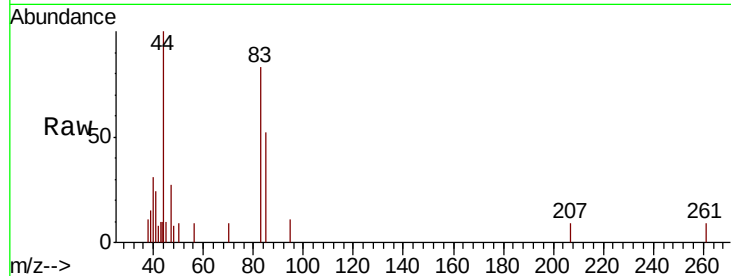




#30
Chloroform
Concen: 1.058 ug/l
RT: 3.88 min Scan# 329
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

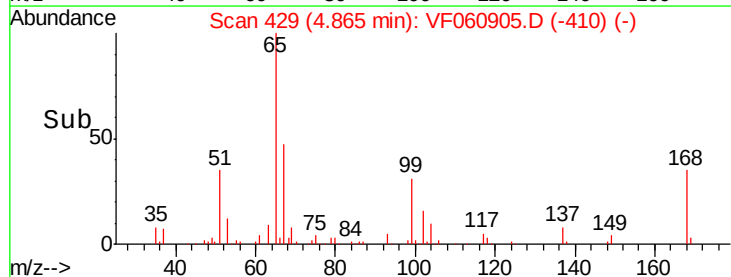
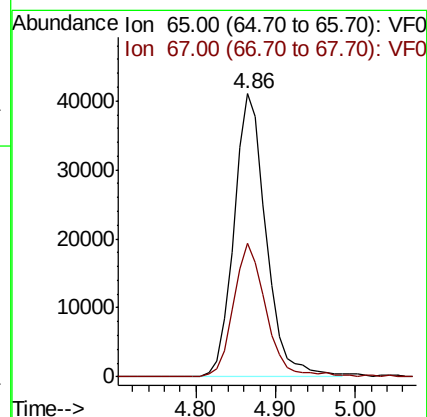
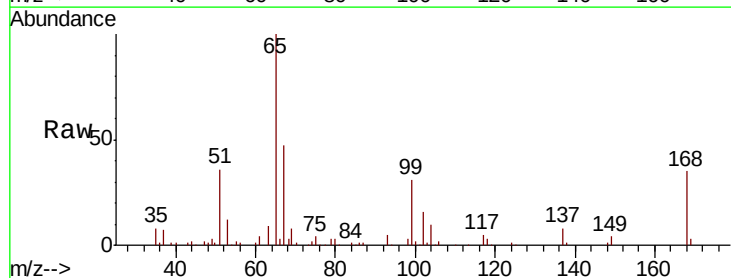
Instrument :
MSVOA_F
ClientSampled :
S49-0488

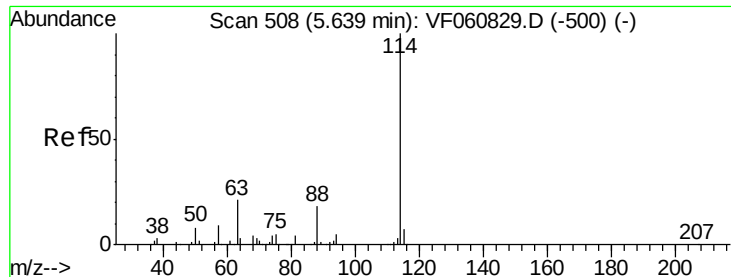
Tot Ion: 83 Resp: 3239
Ion Ratio Lower Upper
83 100
85 62.2 53.4 80.2



#33
1,2-Dichloroethane-d4
Concen: 78.721 ug/l
RT: 4.86 min Scan# 429
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 65 Resp: 115402
Ion Ratio Lower Upper
65 100
67 47.4 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

Instrument :

MSVOA_F

ClientSampled :

S49-0488

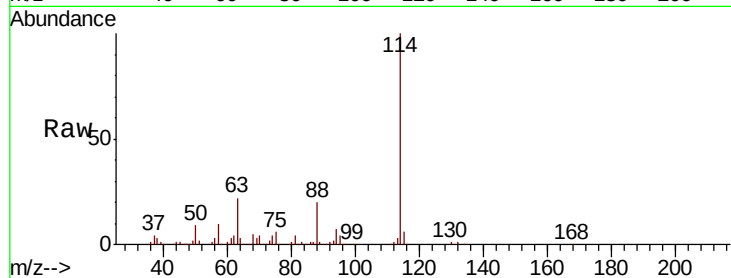
Tot Ion:114 Resp: 302473

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.6

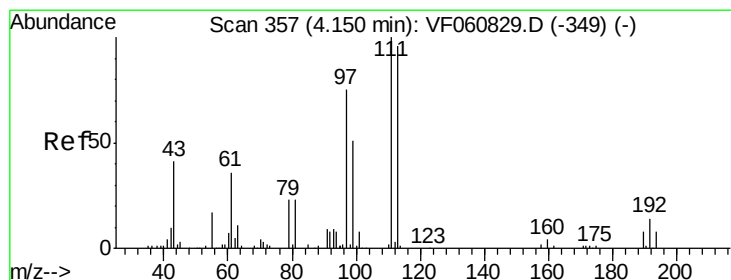
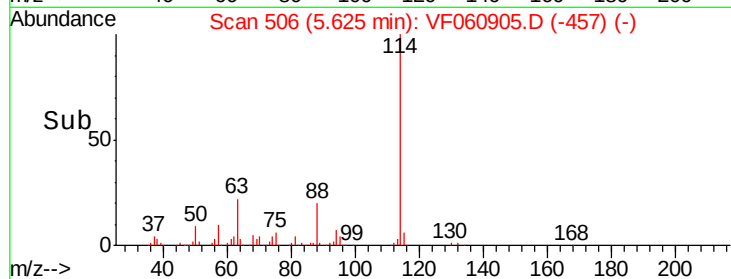
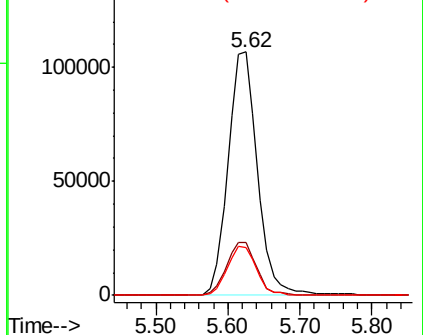
88 19.7 0.0 36.6



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: 50.042 ug/l

RT: 4.14 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

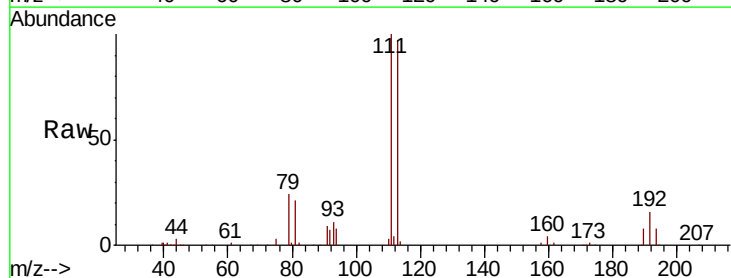
Tgt Ion:113 Resp: 120080

Ion Ratio Lower Upper

113 100

111 103.2 83.0 124.6

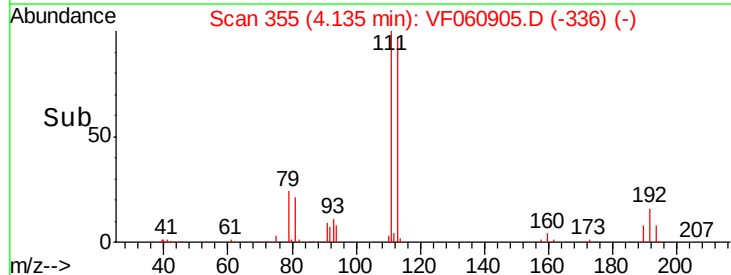
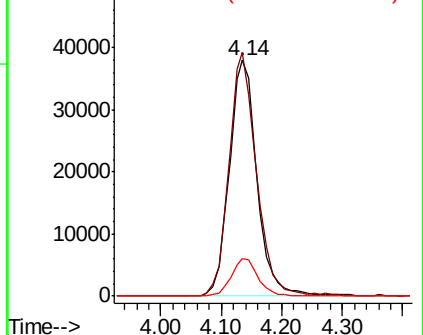
192 16.0 12.3 18.5

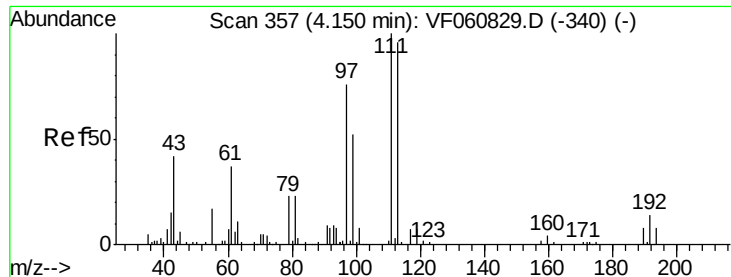


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

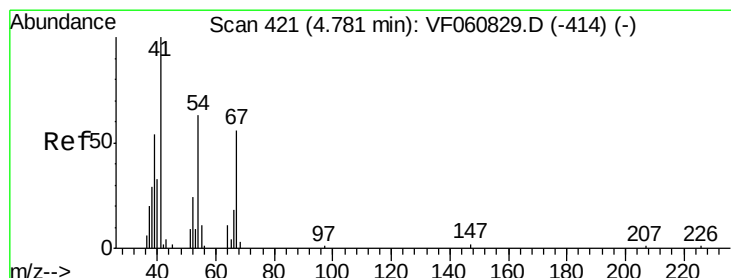
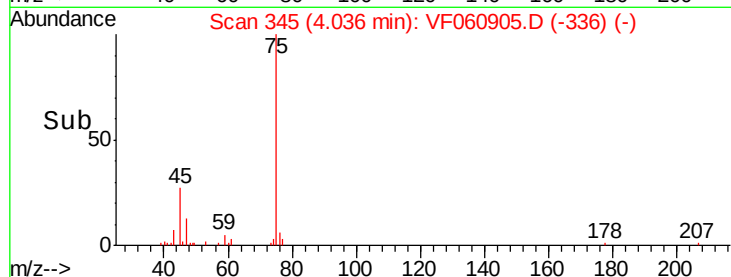
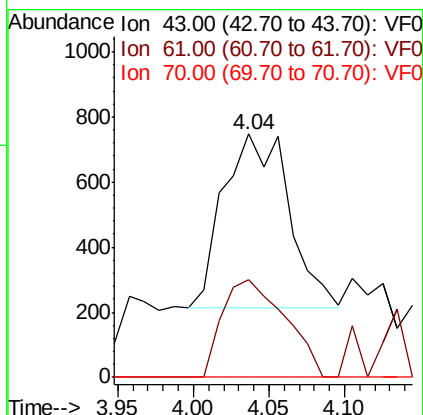
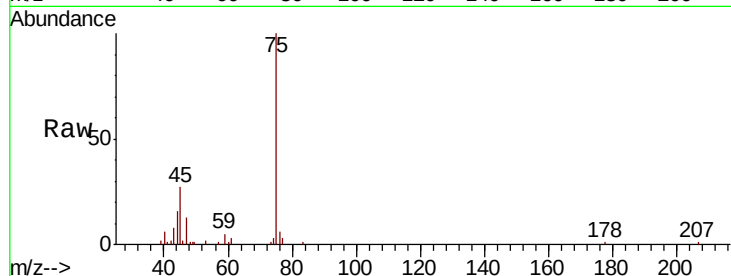




#37
Ethyl Acetate
Concen: 1.184 ug/l
RT: 4.04 min Scan# 345
Delta R.T. -0.11 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

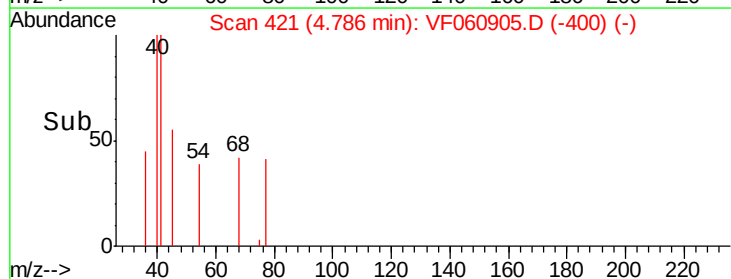
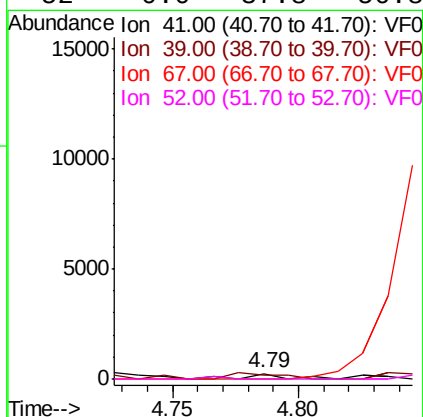
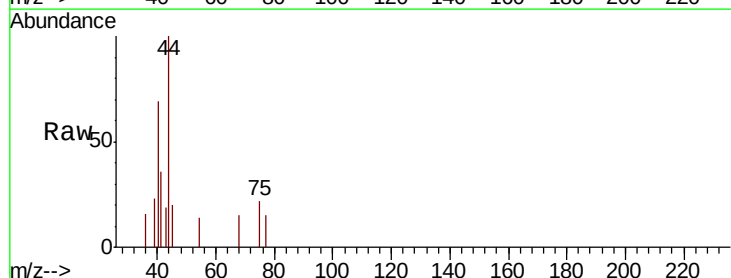
Instrument :
MSVOA_F
ClientSampleId :
S49-0488

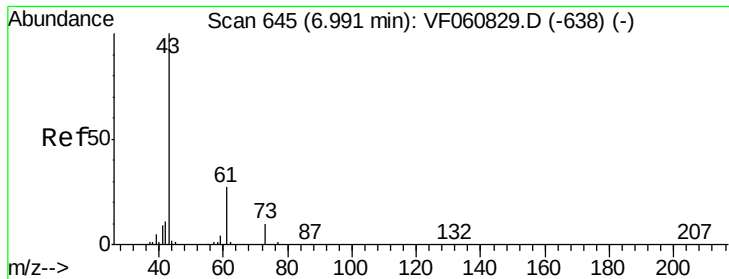
Tot Ion: 43 Resp: 1614
Ion Ratio Lower Upper
43 100
61 40.1 68.6 103.0#
70 0.0 9.0 13.4#



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.79 min Scan# 421
Delta R.T. 0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 41 Resp: 303
Ion Ratio Lower Upper
41 100
39 64.1 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



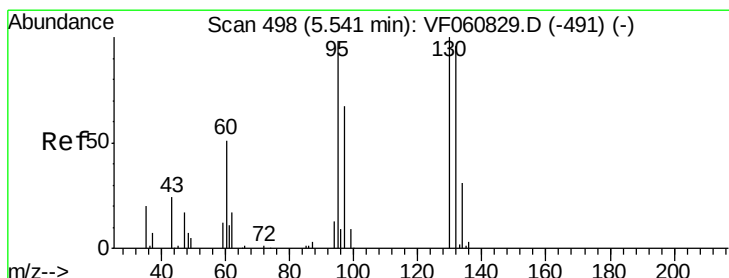
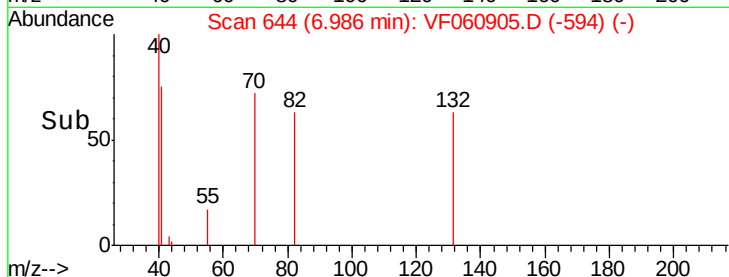
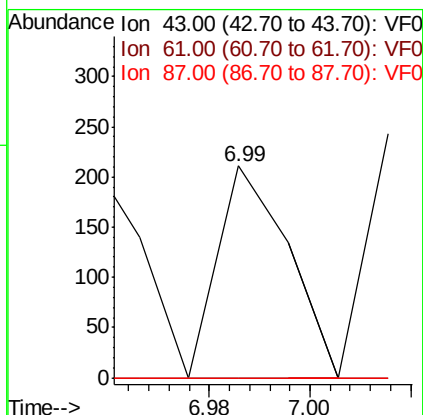
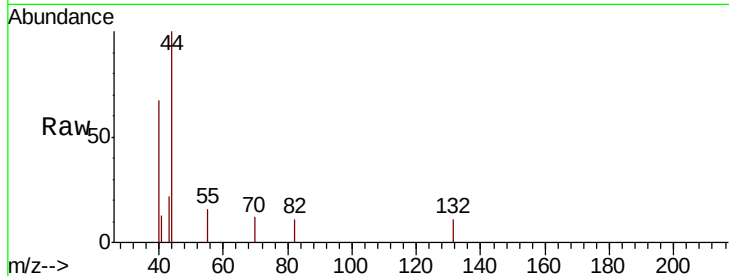


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.99 min Scan# 644
 Delta R.T. -0.00 min
 Lab File: VF060905.D
 Acq: 3 Dec 2018 21:43

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0488

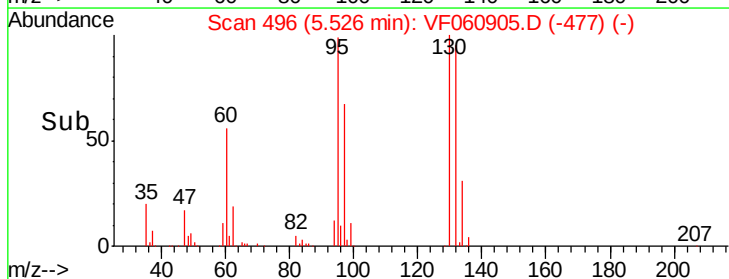
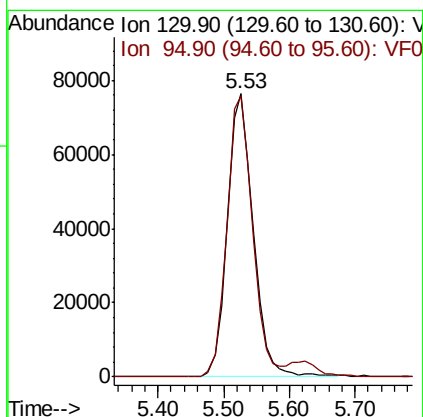
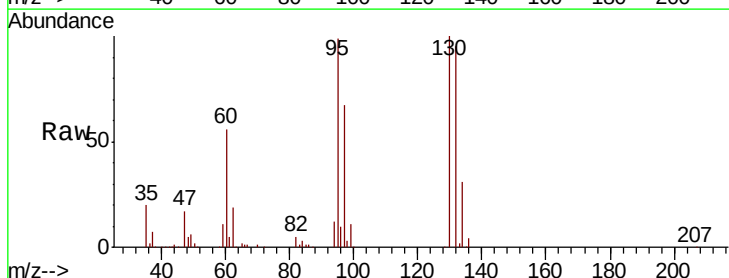
Tot Ion: 43 Resp: 205
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

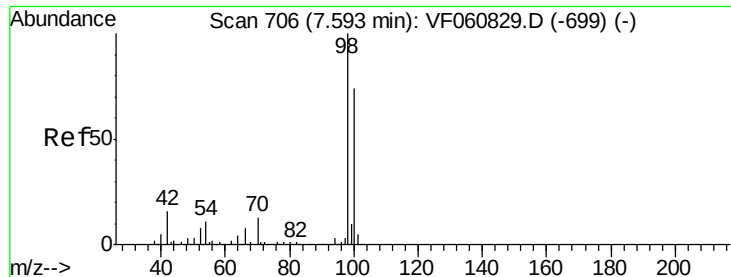


#44

Trichloroethene
 Concen: 86.994 ug/l
 RT: 5.53 min Scan# 496
 Delta R.T. -0.01 min
 Lab File: VF060905.D
 Acq: 3 Dec 2018 21:43

Tgt Ion: 130 Resp: 210819
 Ion Ratio Lower Upper
 130 100
 95 99.0 0.0 195.6





#50

Toluene-d8

Concen: 43.876 ug/l

RT: 7.58 min Scan# 704

Delta R.T. -0.01 min

Lab File: VF060905.D

Acq: 3 Dec 2018 21:43

Instrument :

MSVOA_F

ClientSampleId :

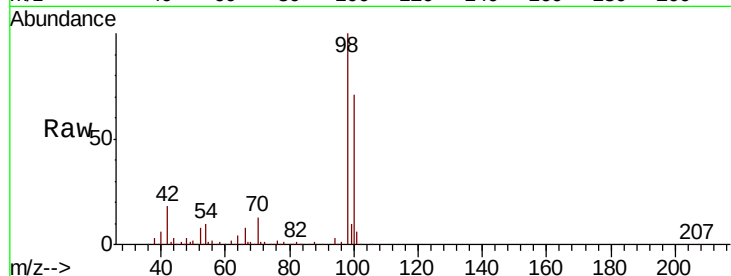
S49-0488

Tot Ion: 98 Resp: 310138

Ion Ratio Lower Upper

98 100

100 71.4 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.58

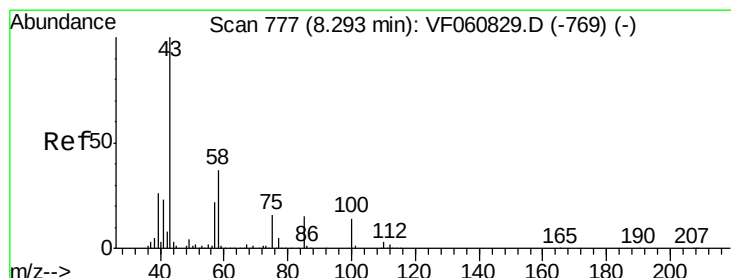
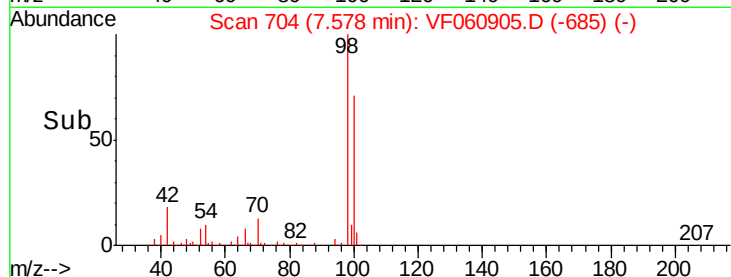
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.347 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060905.D

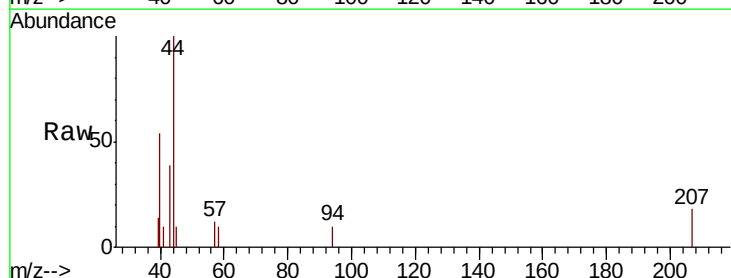
Acq: 3 Dec 2018 21:43

Tgt Ion: 43 Resp: 1694

Ion Ratio Lower Upper

43 100

58 25.2 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

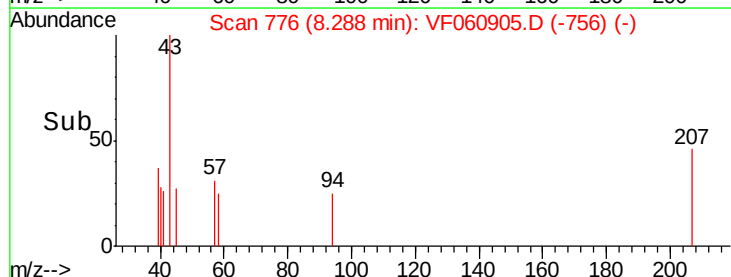
300

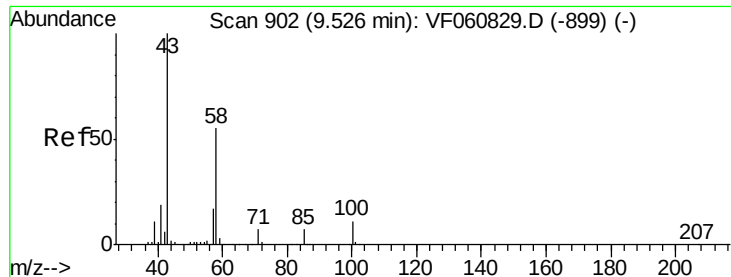
200

100

0

Time--> 8.20 8.25 8.30 8.35

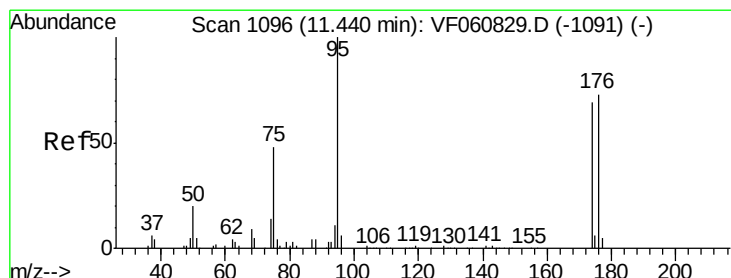
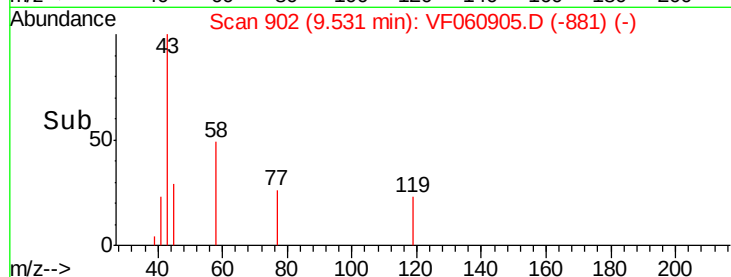
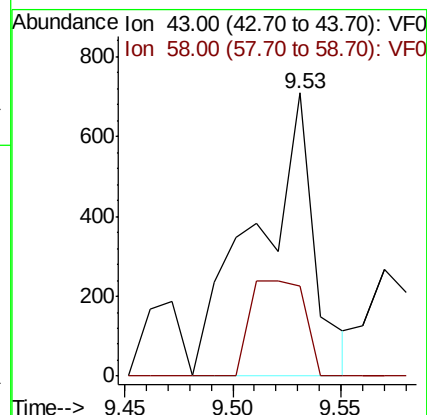
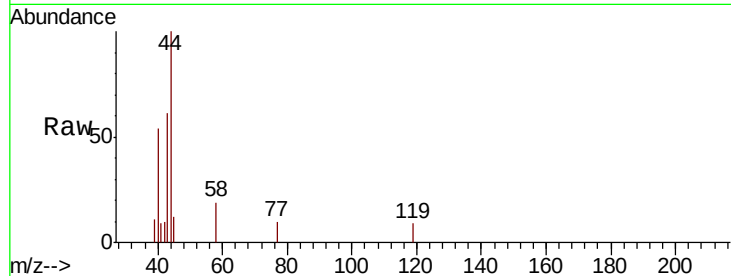




#59
2-Hexanone
Concen: 1.510 ug/l
RT: 9.53 min Scan# 902
Delta R.T. 0.00 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

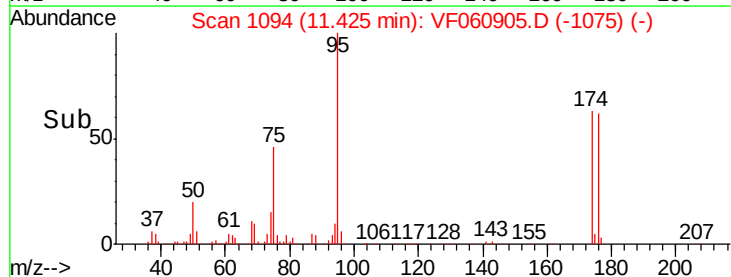
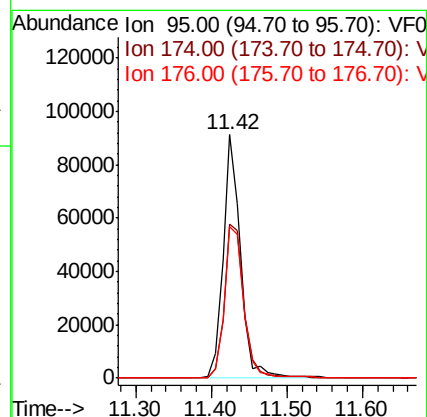
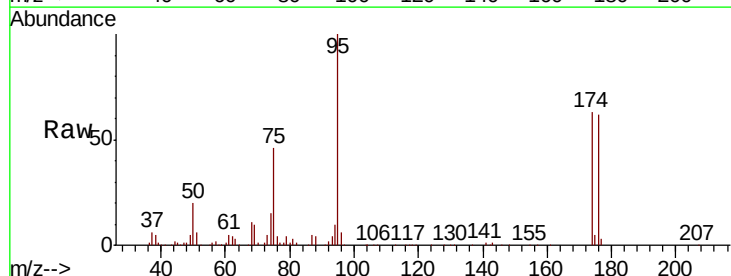
Instrument :
MSVOA_F
ClientSampled :
S49-0488

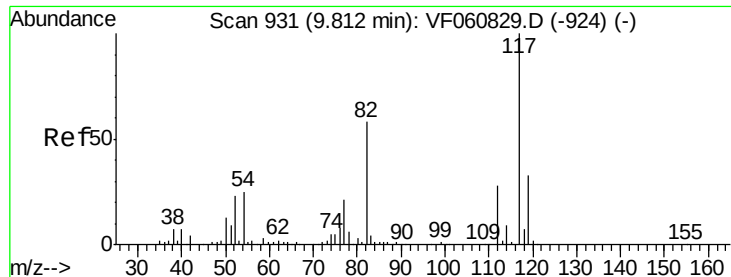
Tot Ion: 43 Resp: 1332
Ion Ratio Lower Upper
43 100
58 31.9 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 46.032 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion: 95 Resp: 147878
Ion Ratio Lower Upper
95 100
174 63.4 0.0 138.2
176 62.0 0.0 146.2

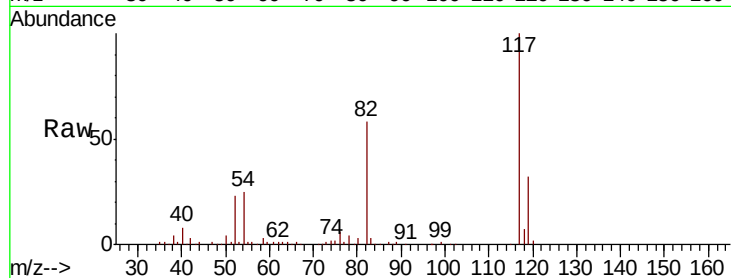




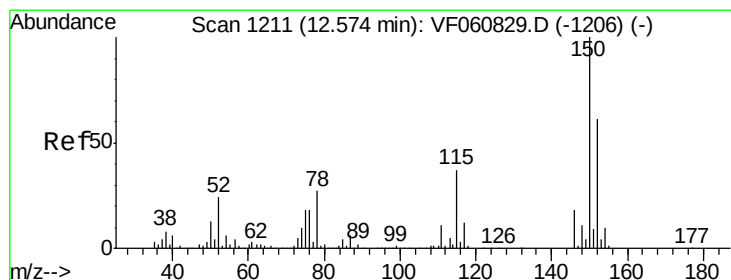
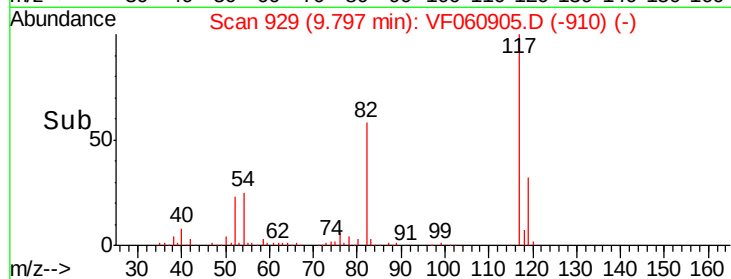
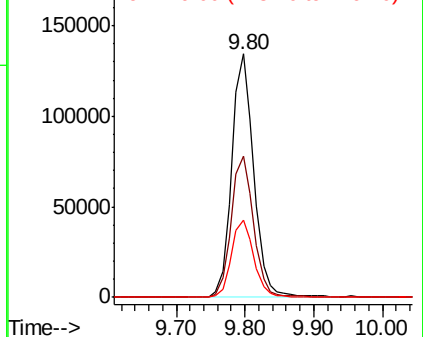
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Instrument :
MSVOA_F
ClientSampleId :
S49-0488

Tot Ion:117 Resp: 297068
Ion Ratio Lower Upper
117 100
82 58.2 46.6 69.8
119 31.9 26.4 39.6

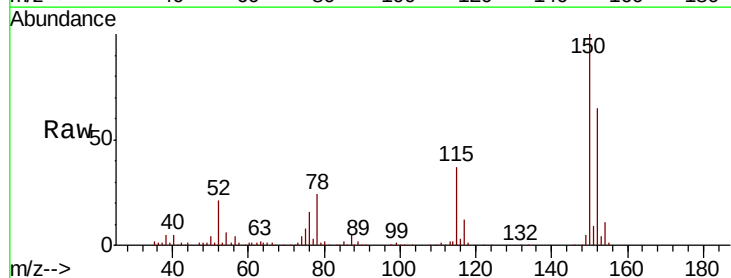


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

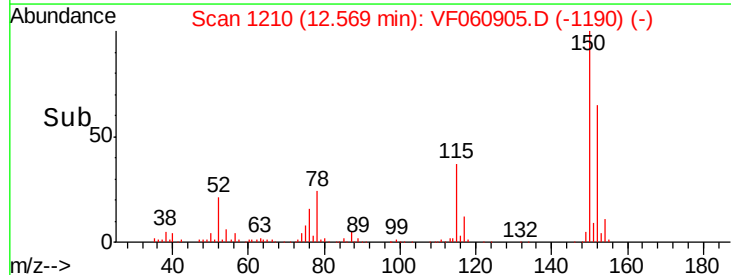
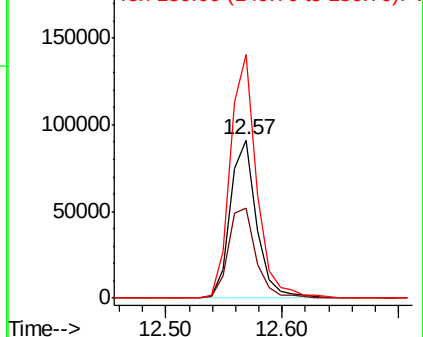


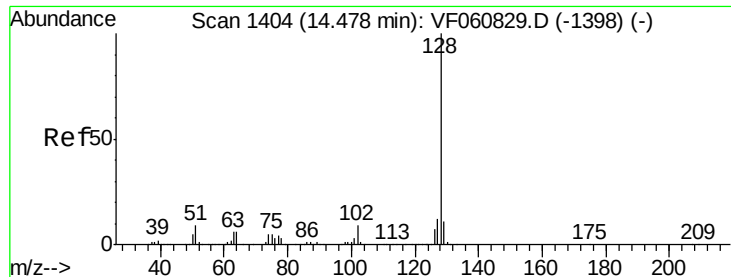
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Tgt Ion:152 Resp: 144022
Ion Ratio Lower Upper
152 100
115 56.5 30.1 90.5
150 153.7 0.0 327.6



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





#95
Naphthalene
Concen: Below Cal
RT: 14.47 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF060905.D
Acq: 3 Dec 2018 21:43

Instrument :
MSVOA_F
ClientSampleId :
S49-0488

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.5	9.9	14.9#
129	15.3	9.1	13.7#

