

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122118\
 Data File : VF061128.D
 Acq On : 21 Dec 2018 16:15
 Operator : VA/AP
 Sample : J6199-11
 Misc : 15.28g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

Quant Time: Dec 21 16:42:39 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	4.90	168	338	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.61	114	156	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.82	117	182	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.55

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.42	95	69	42.26	ug/l	0.01
Spiked Amount	50.000		Recovery	=	84.52%	

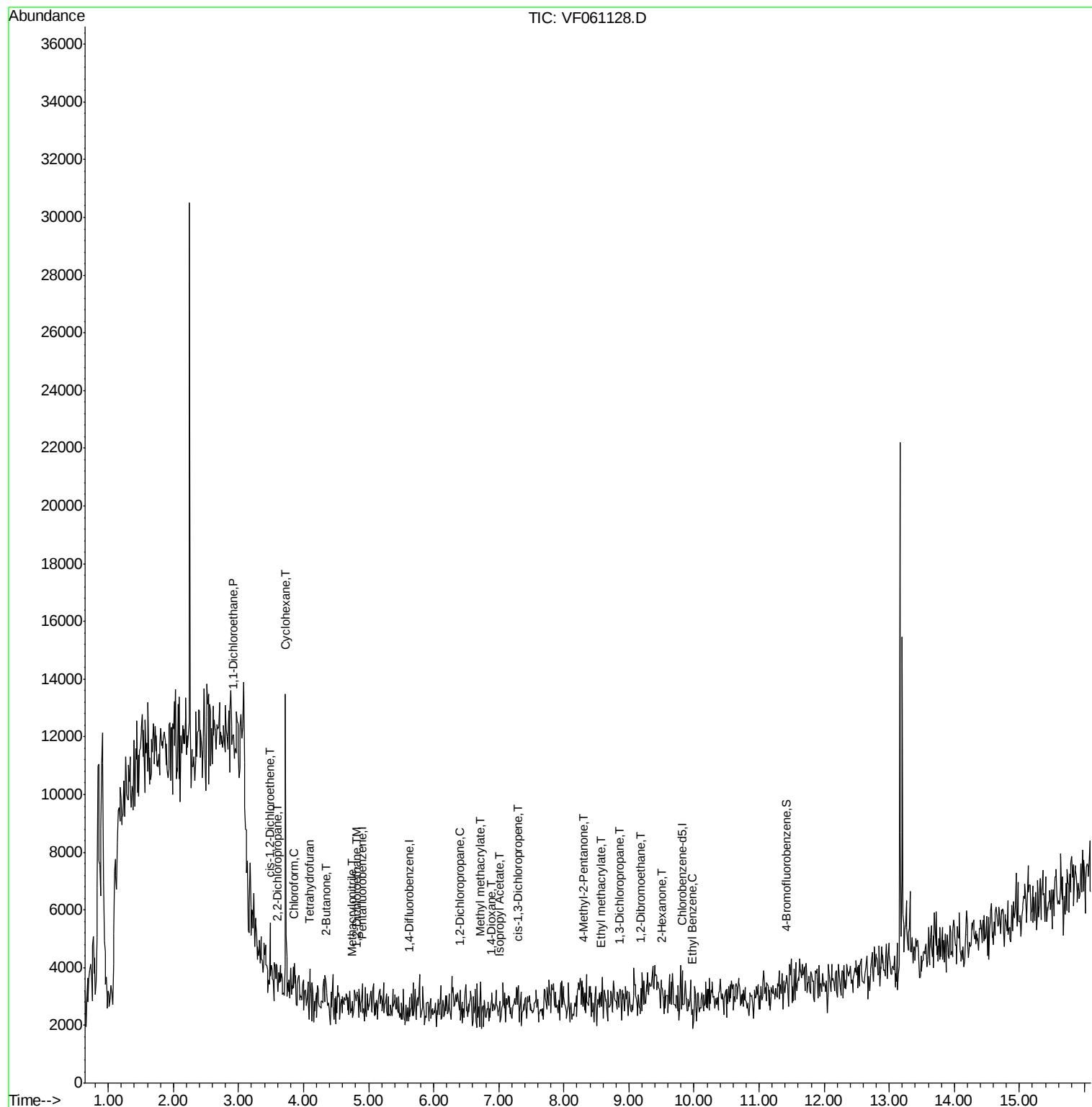
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) 1,1-Dichloroethane	2.91	63	95	15.524	ug/l #	88
25) 2-Butanone	4.35	43	397	281.669	ug/l #	57
26) 2,2-Dichloropropane	3.60	77	150	42.713	ug/l #	62
27) cis-1,2-Dichloroethene	3.47	96	63	12.914	ug/l	1
29) Tetrahydrofuran	4.11	42	80	139.454	ug/l #	37
30) Chloroform	3.86	83	60	6.539	ug/l #	16
31) Cyclohexane	3.73	56	159	25.040	ug/l #	15
37) Ethyl Acetate	4.13	43	471	Below Cal	#	21
41) Methacrylonitrile	4.74	41	314	789.587	ug/l #	46
42) 1,2-Dichloroethane	4.82	62	73	47.455	ug/l	77
43) Isopropyl Acetate	7.02	43	134	147.379	ug/l #	45
45) 1,2-Dichloropropane	6.39	63	67	60.814	ug/l #	44
48) Methyl methacrylate	6.72	41	168	264.678	ug/l #	29
49) 1,4-Dioxane	6.88	88	86	18672.891	ug/l #	23
51) 4-Methyl-2-Pentanone	8.30	43	176	282.249	ug/l #	38
54) cis-1,3-Dichloropropene	7.29	75	63	33.514	ug/l #	1
56) Ethyl methacrylate	8.56	69	70	80.502	ug/l #	67
57) 1,3-Dichloropropane	8.87	76	70	48.164	ug/l #	42
59) 2-Hexanone	9.51	43	218	483.428	ug/l #	27
61) 1,2-Dibromoethane	9.18	107	60	69.912	ug/l #	4
67) Ethyl Benzene	9.97	91	85	12.409	ug/l #	47

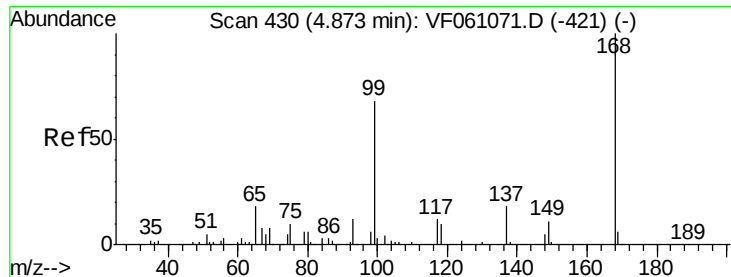
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF122118\
Data File : VF061128.D
Acq On : 21 Dec 2018 16:15
Operator : VA/AP
Sample : J6199-11
Misc : 15.28g/5mL/MSVOA-F/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

Quant Time: Dec 21 16:42:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
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: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

Instrument :

MSVOA_F

ClientSampleId :

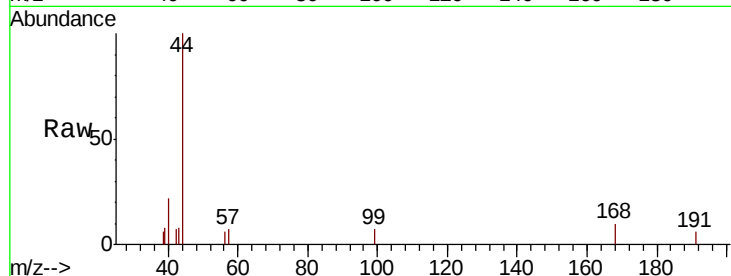
SU-02-121818-B

Tgt Ion: 168 Resp: 338

Ion Ratio Lower Upper

168 100

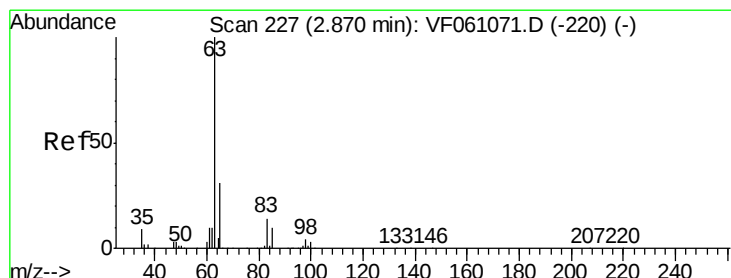
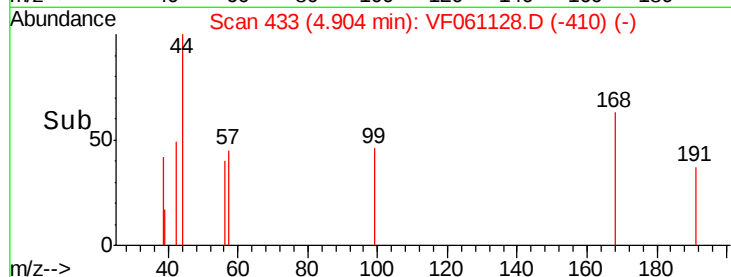
99 72.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Time--> 4.85 4.90 4.95



#24

1,1-Dichloroethane

Concen: 15.524 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.04 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

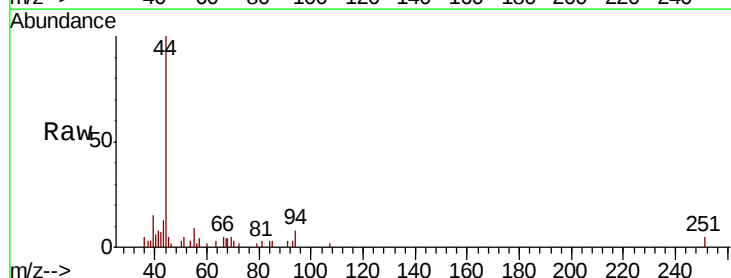
Tgt Ion: 63 Resp: 95

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

100 0.0 1.7 5.1#

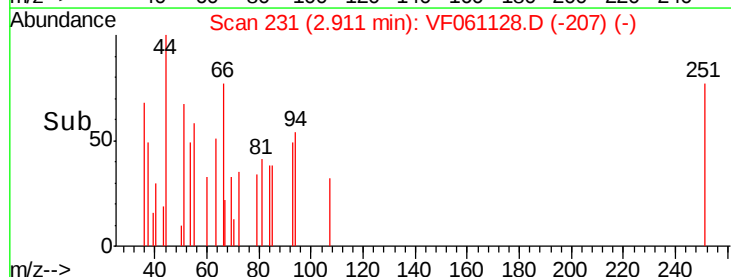


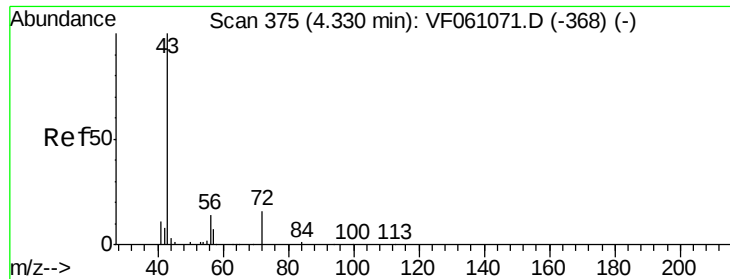
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

Time--> 2.88 2.90 2.92





#25

2-Butanone

Concen: 281.669 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

Instrument :

MSVOA_F

ClientSampleId :

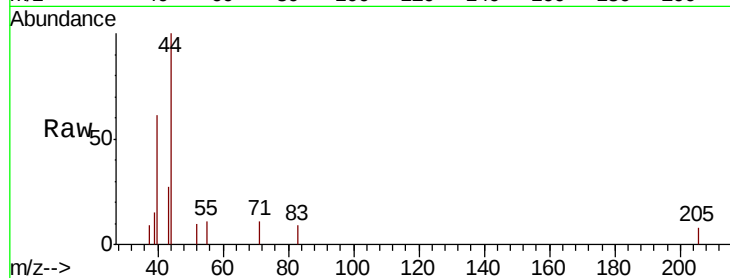
SU-02-121818-B

Tgt Ion: 43 Resp: 397

Ion Ratio Lower Upper

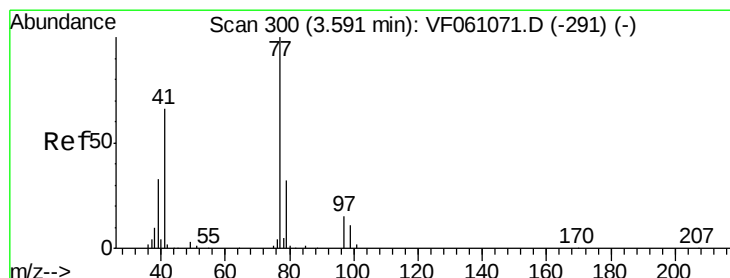
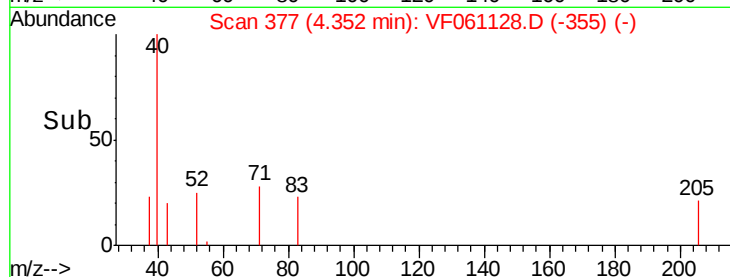
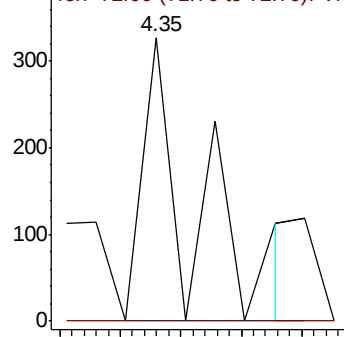
43 100

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



#26

2,2-Dichloropropane

Concen: 42.713 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061128.D

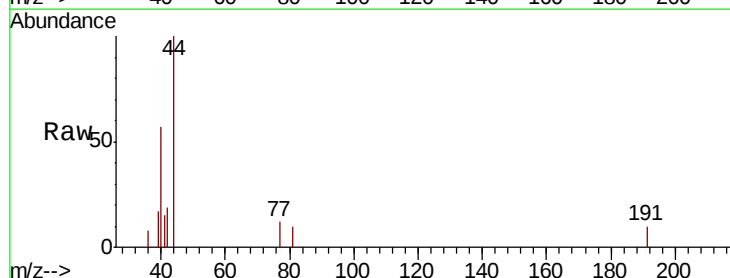
Acq: 21 Dec 2018 16:15

Tgt Ion: 77 Resp: 150

Ion Ratio Lower Upper

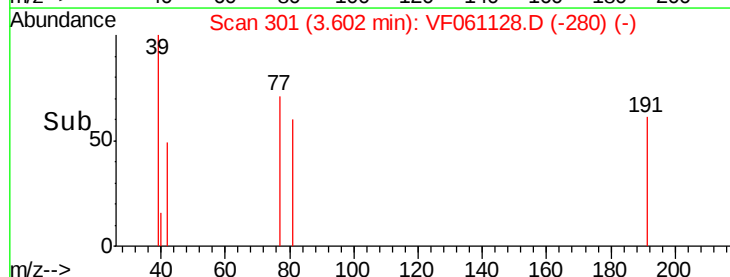
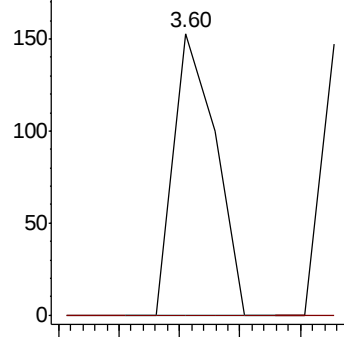
77 100

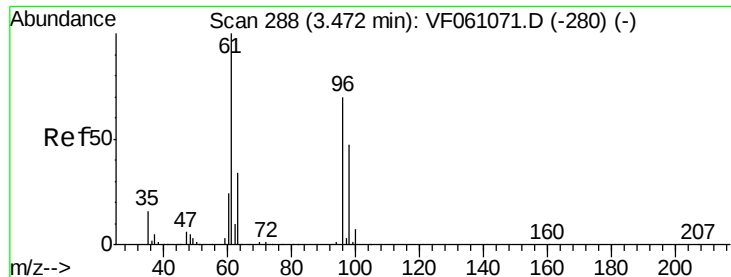
97 0.0 8.2 24.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



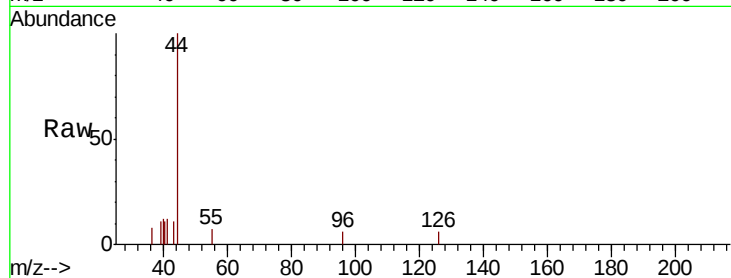


#27

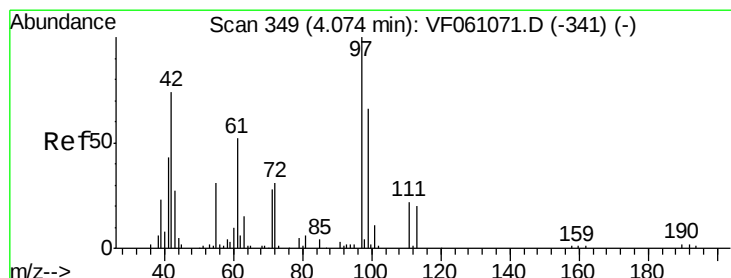
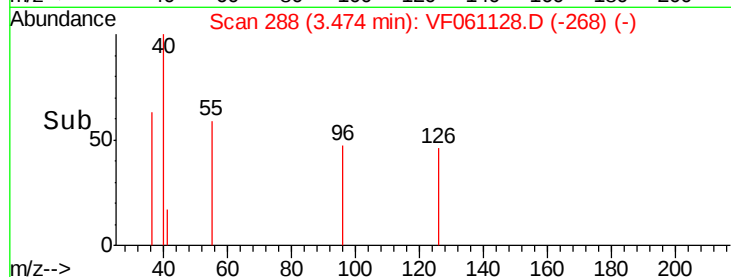
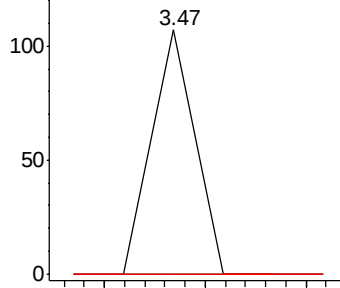
cis-1,2-Dichloroethene
 Concen: 12.914 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. 0.00 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	287.8
98	0.0	0.0	134.2



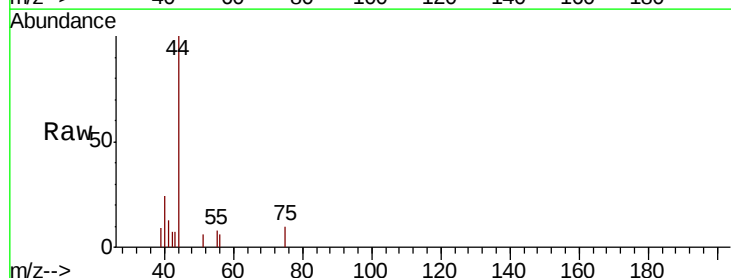
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



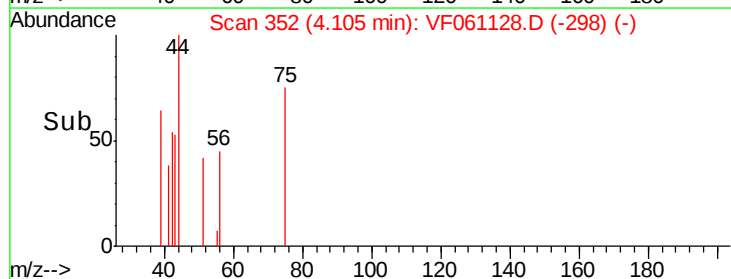
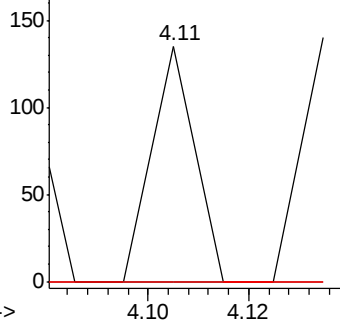
#29

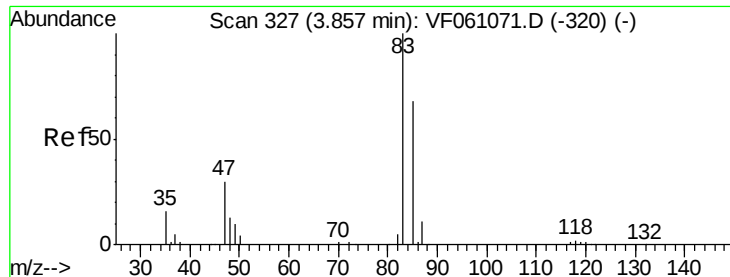
Tetrahydrofuran
 Concen: 139.454 ug/l
 RT: 4.11 min Scan# 352
 Delta R.T. 0.03 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Tgt 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

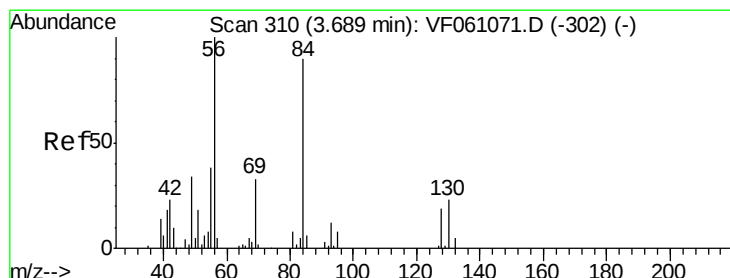
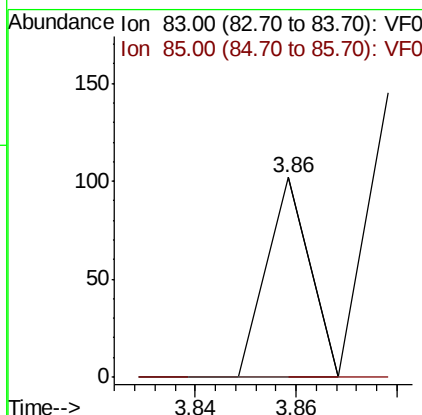
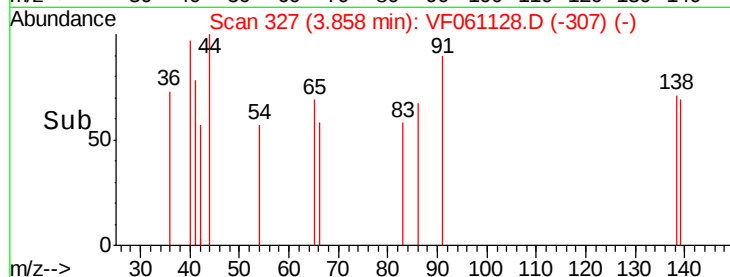
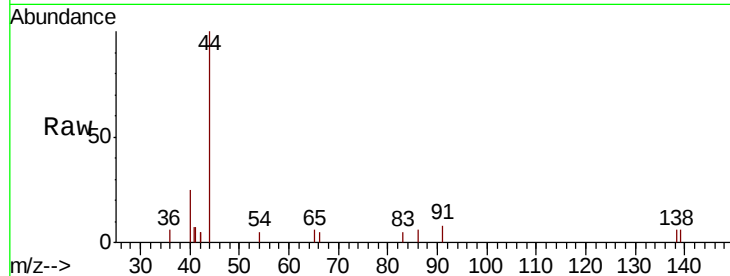




#30
Chloroform
Concen: 6.539 ug/l
RT: 3.86 min Scan# 327
Delta R.T. 0.00 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

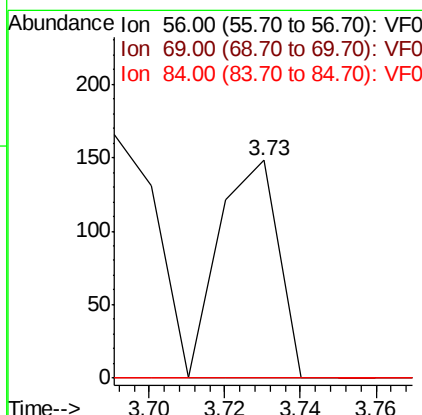
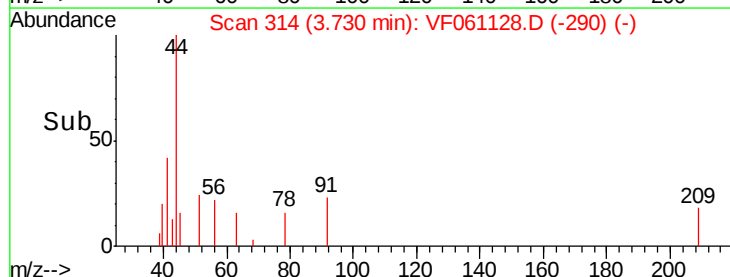
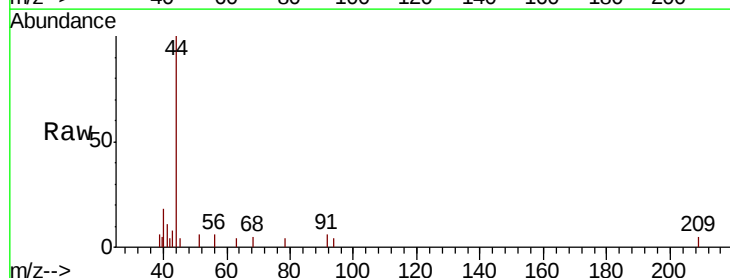
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

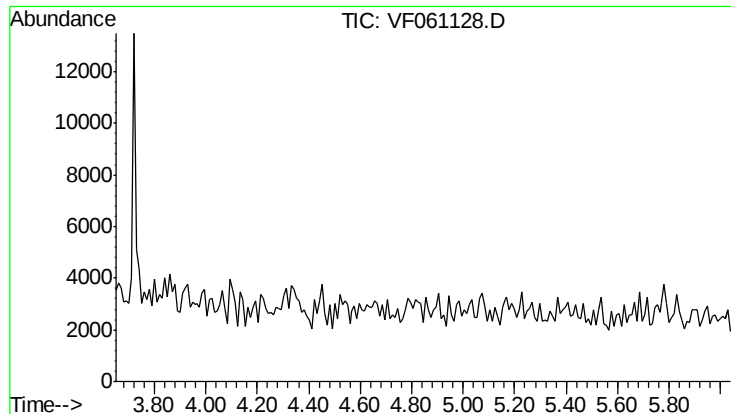
Tgt Ion: 83 Resp: 60
Ion Ratio Lower Upper
83 100
85 0.0 54.5 81.7#



#31
Cyclohexane
Concen: 25.040 ug/l
RT: 3.73 min Scan# 314
Delta R.T. 0.04 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

Tgt Ion: 56 Resp: 159
Ion Ratio Lower Upper
56 100
69 0.0 26.0 39.0#
84 0.0 71.4 107.2#

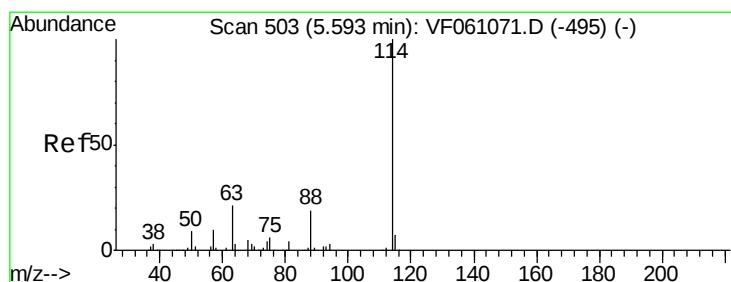
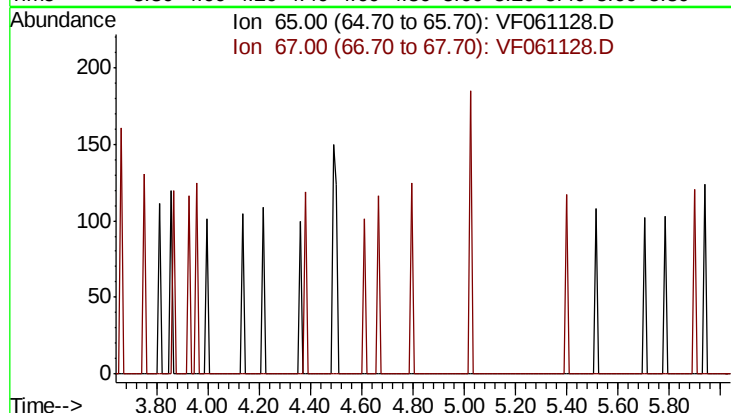




#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 4.84 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

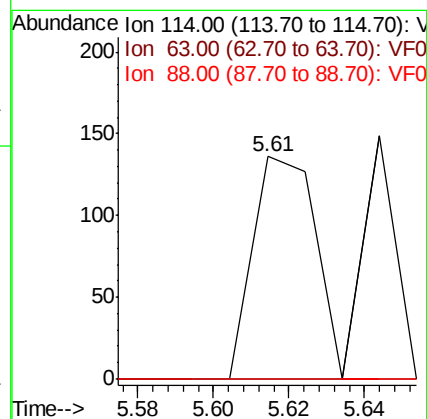
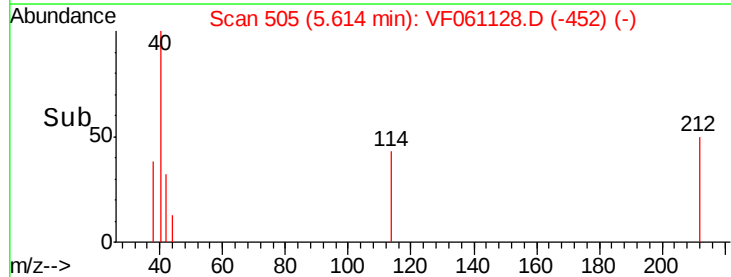
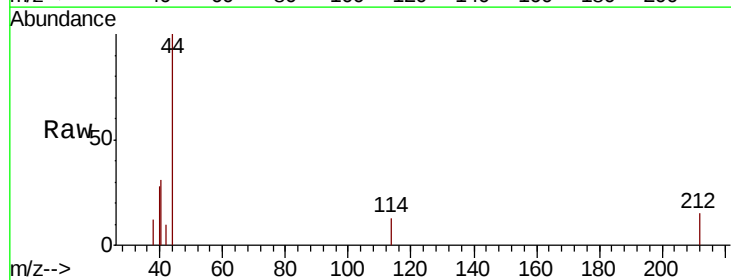
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

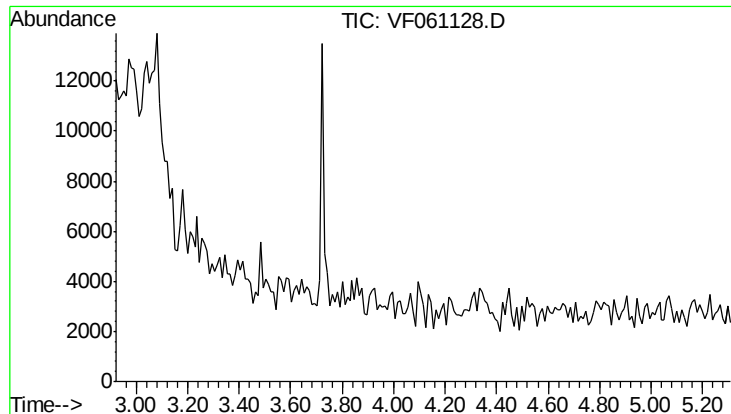
Tgt Ion: 65
 Sig Exp Ratio
 65 100
 67 47.3



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Tgt Ion: 114 Resp: 156
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 41.6
 88 0.0 0.0 38.0



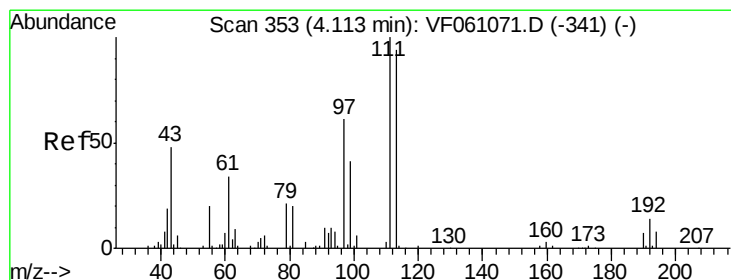
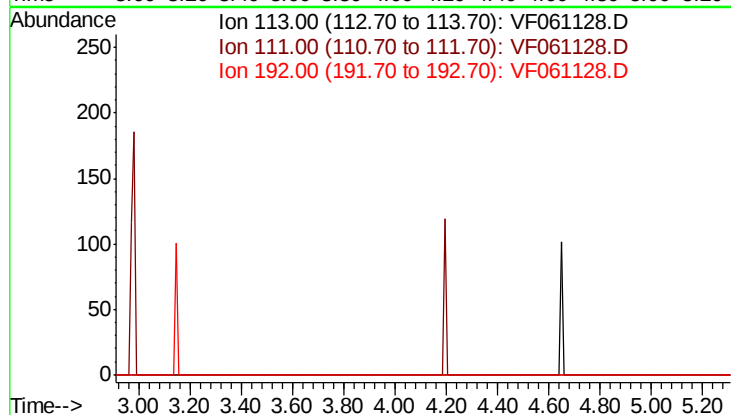


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min

Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

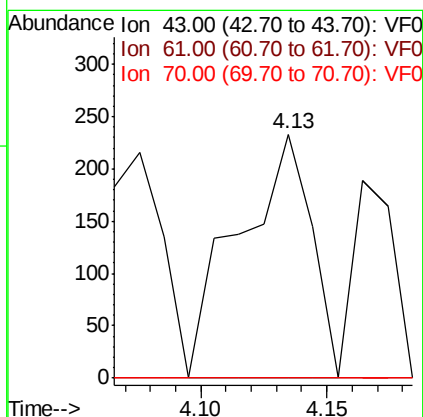
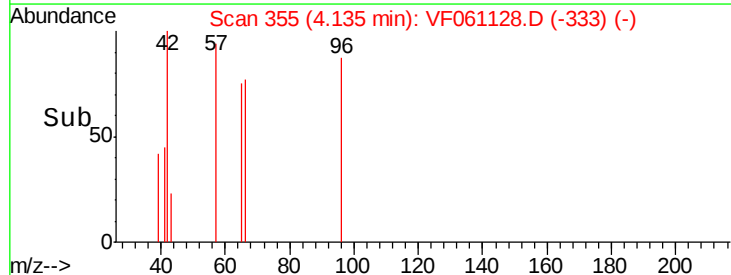
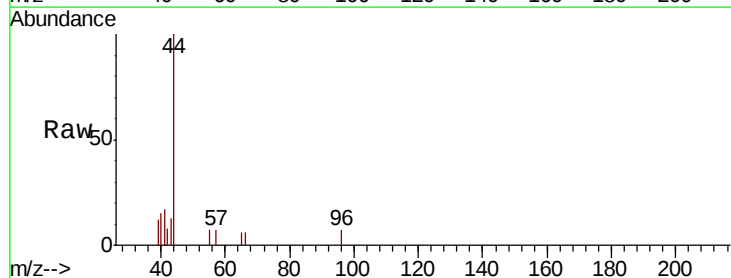
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

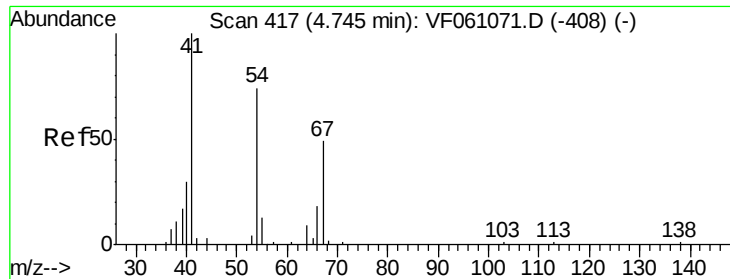
Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 106.5
 192 16.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.13 min Scan# 355
 Delta R.T. 0.02 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Tgt Ion: 43 Resp: 471
 Ion Ratio Lower Upper
 43 100
 61 0.0 56.6 84.8#
 70 0.0 6.3 9.5#

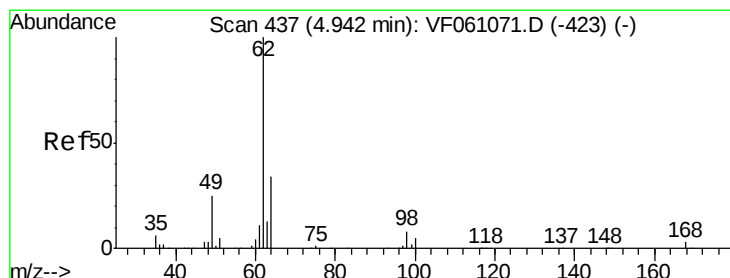
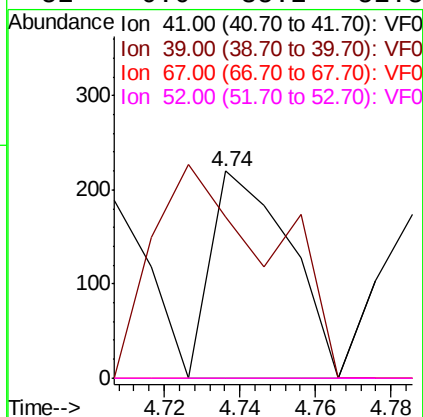
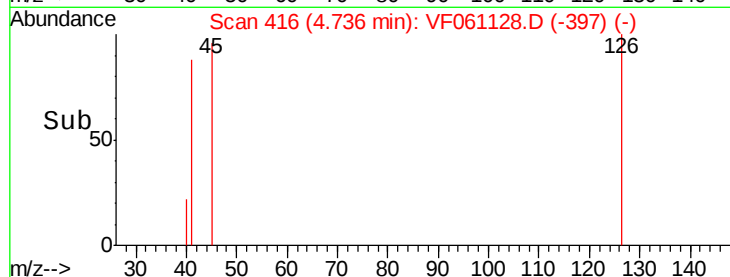
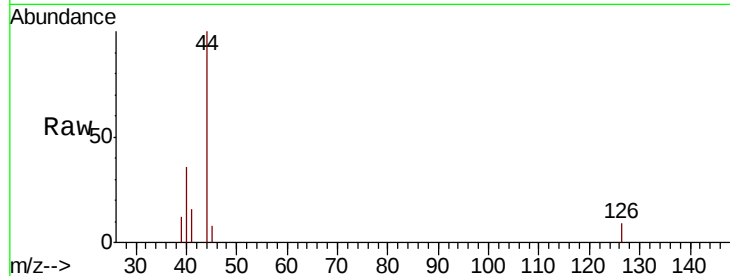




#41
Methacrylonitrile
Concen: 789.587 ug/l
RT: 4.74 min Scan# 416
Delta R.T. -0.01 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

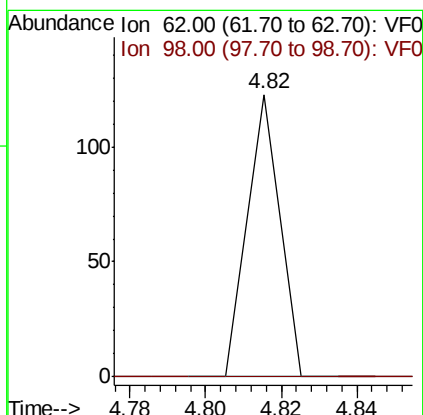
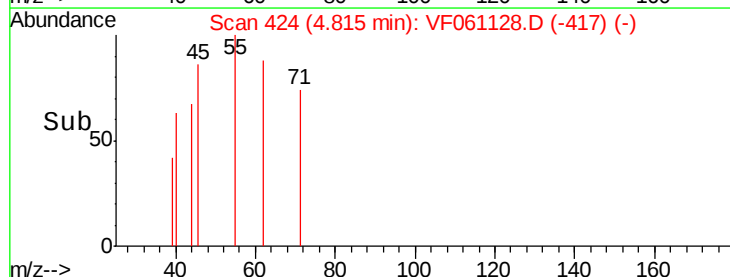
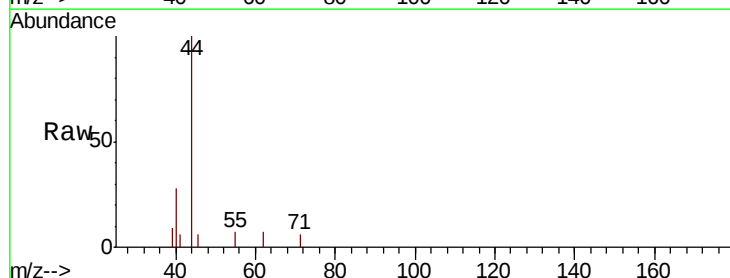
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

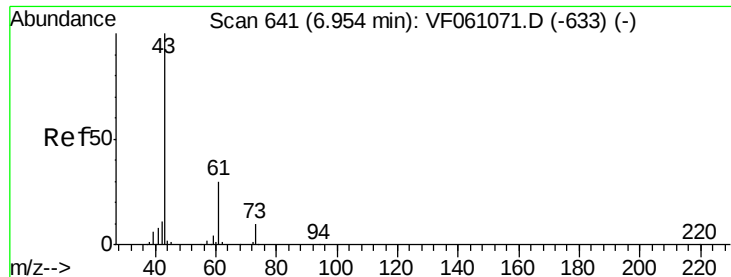
Tgt Ion:	41	Resp:	314
Ion	Ratio	Lower	Upper
41	100		
39	77.7	45.7	68.5#
67	0.0	38.9	58.3#
52	0.0	35.2	52.8#



#42
1,2-Dichloroethane
Concen: 47.455 ug/l
RT: 4.82 min Scan# 424
Delta R.T. -0.13 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

Tgt Ion:	62	Resp:	73
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	16.6



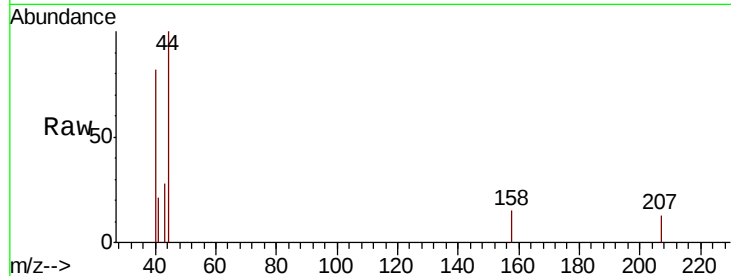


#43

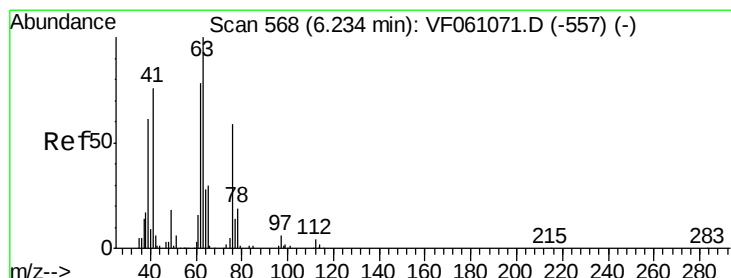
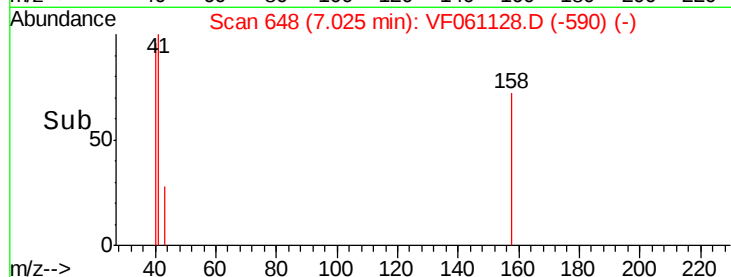
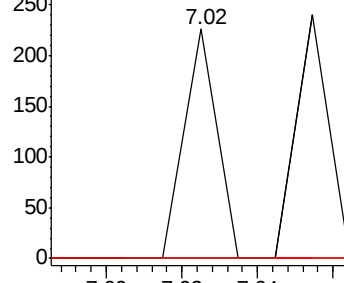
Isopropyl Acetate
 Concen: 147.379 ug/l
 RT: 7.02 min Scan# 648
 Delta R.T. 0.07 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

Tgt Ion: 43 Resp: 134
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.8 35.8#
 87 0.0 0.0 0.0



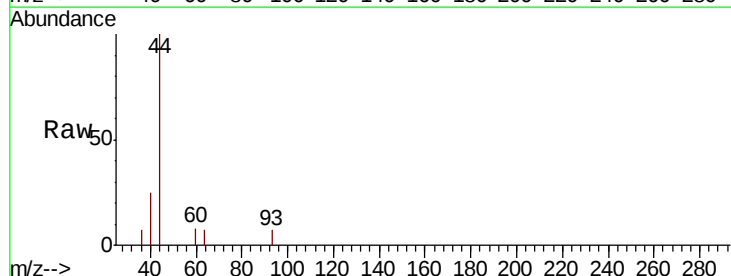
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



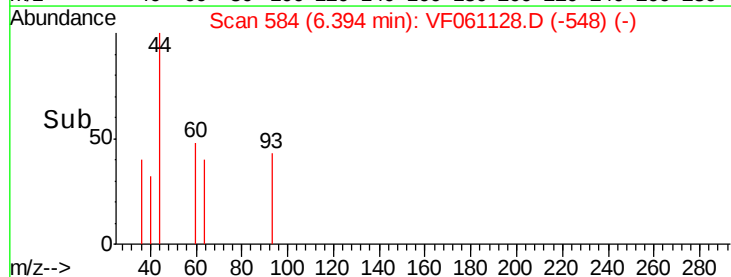
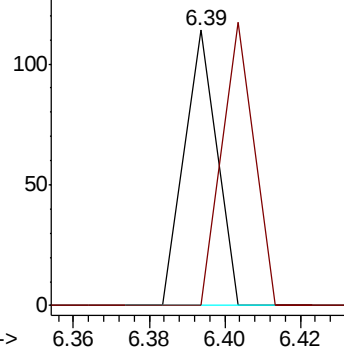
#45

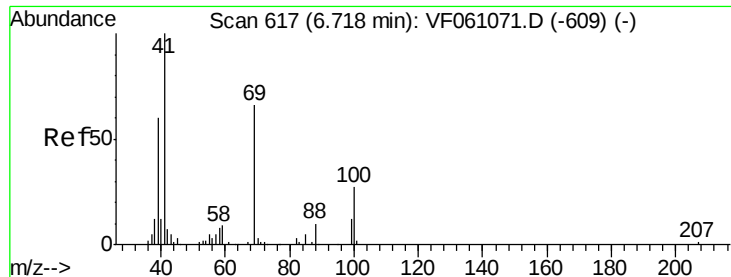
1,2-Dichloropropane
 Concen: 60.814 ug/l
 RT: 6.39 min Scan# 584
 Delta R.T. 0.16 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Tgt Ion: 63 Resp: 67
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 65.00 (64.70 to 65.70): VF0

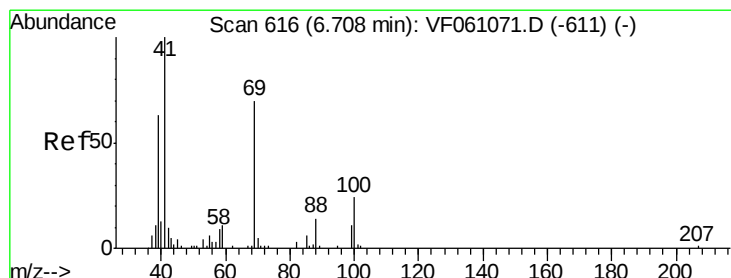
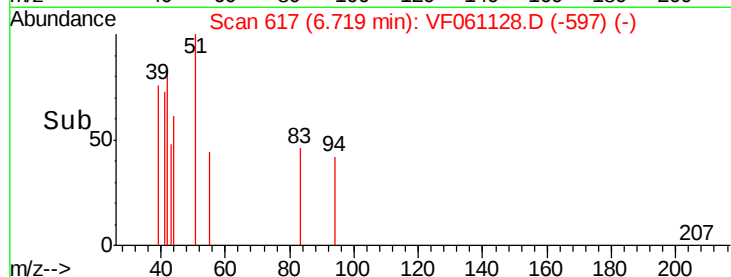
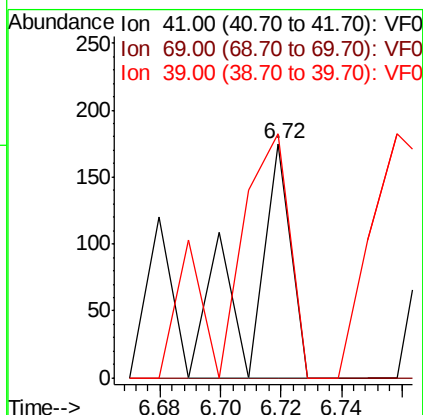
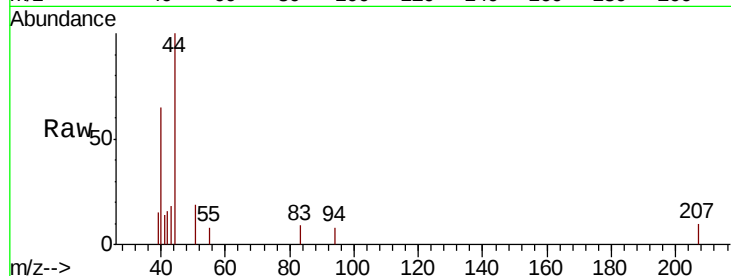




#48
Methyl methacrylate
Concen: 264.678 ug/l
RT: 6.72 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

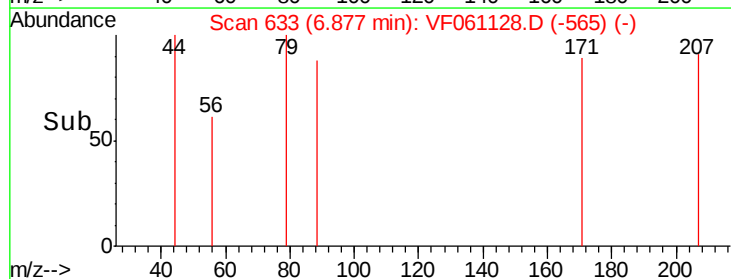
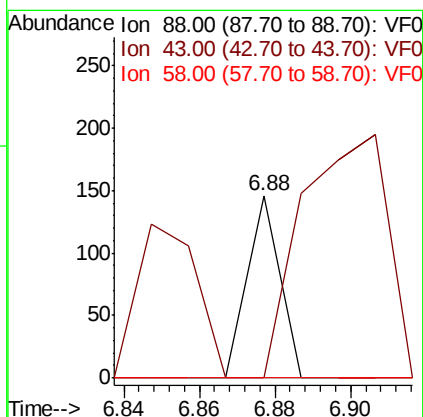
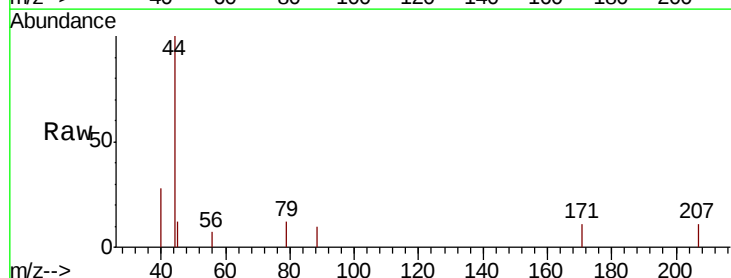
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

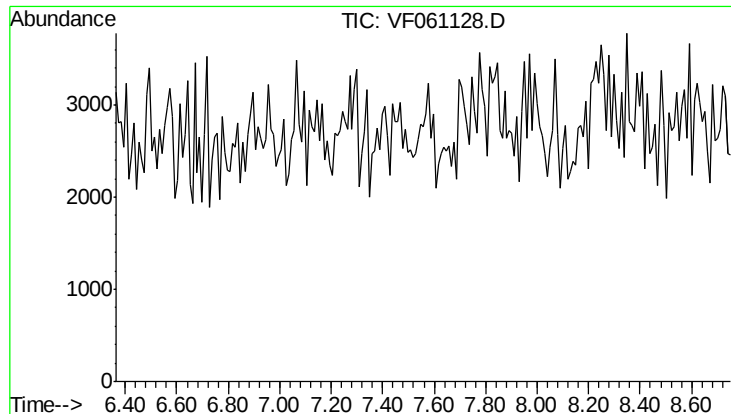
Tgt Ion: 41 Resp: 168
Ion Ratio Lower Upper
41 100
69 0.0 52.7 79.1#
39 104.0 47.8 71.6#



#49
1,4-Dioxane
Concen: 18672.891 ug/l
RT: 6.88 min Scan# 633
Delta R.T. 0.17 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 33.3 49.9#
58 0.0 53.2 79.8#



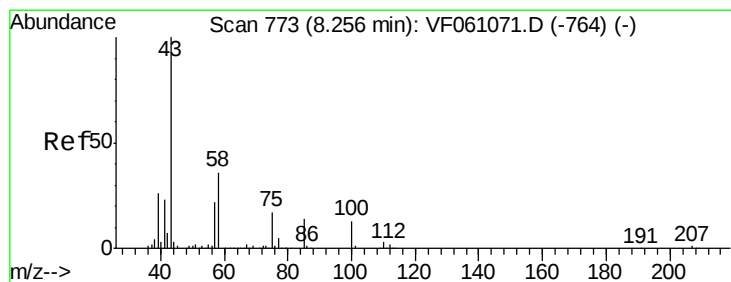
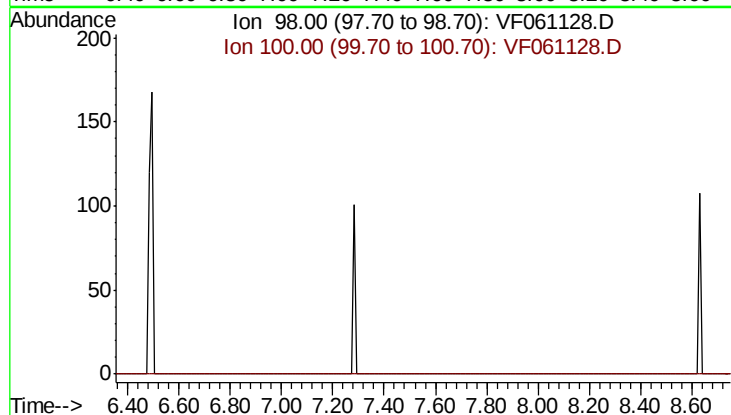


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.56 min

Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

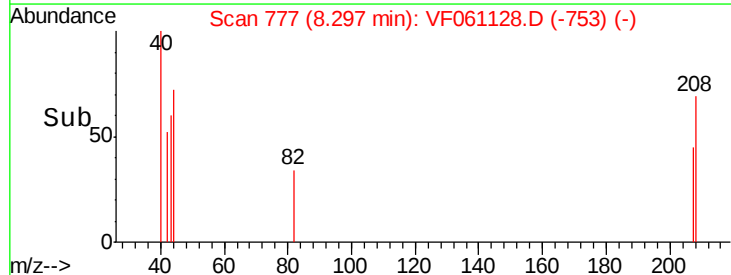
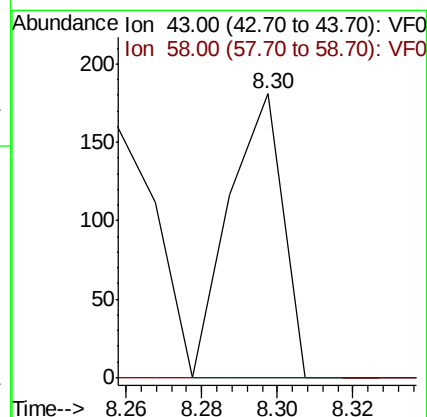
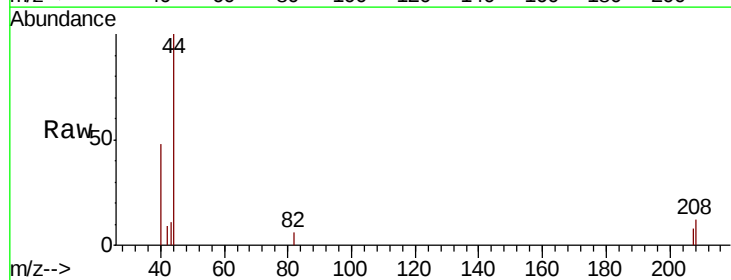
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

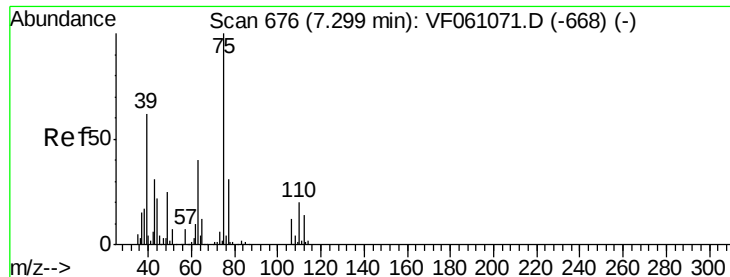
Tgt Ion: 98
Sig Exp Ratio
98 100
100 69.1



#51
4-Methyl-2-Pentanone
Concen: 282.249 ug/l
RT: 8.30 min Scan# 777
Delta R.T. 0.04 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

Tgt Ion: 43 Resp: 176
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#





#54

cis-1,3-Dichloropropene

Concen: 33.514 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.01 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

Instrument :

MSVOA_F

ClientSampleId :

SU-02-121818-B

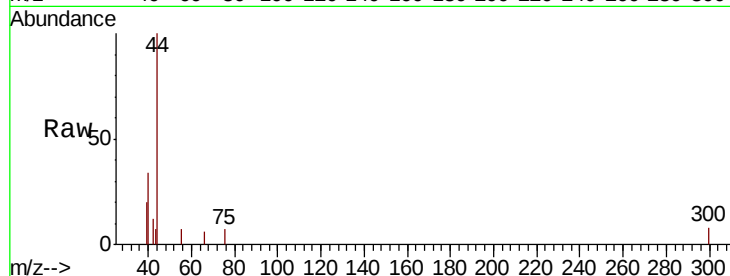
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

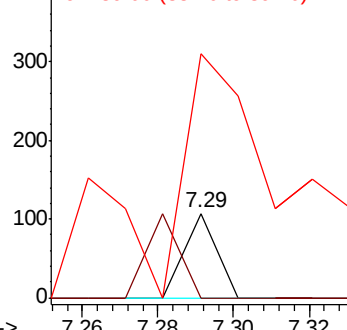
39 289.7 50.1 75.1#



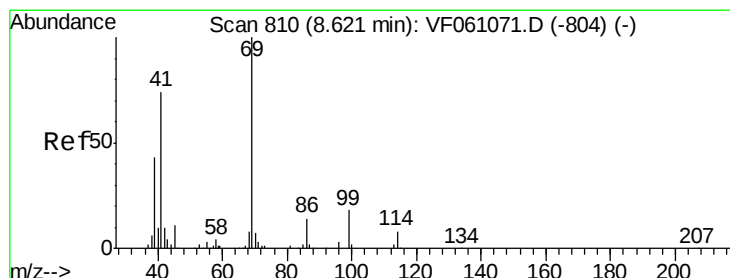
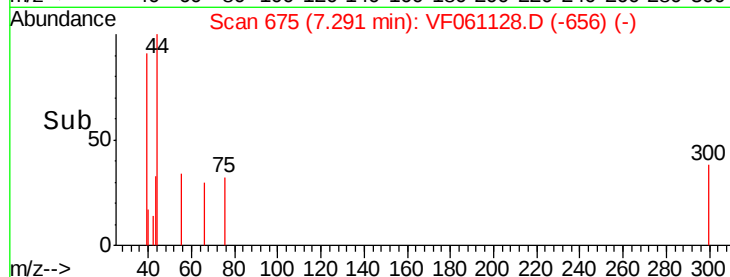
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#56

Ethyl methacrylate

Concen: 80.502 ug/l

RT: 8.56 min Scan# 804

Delta R.T. -0.06 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

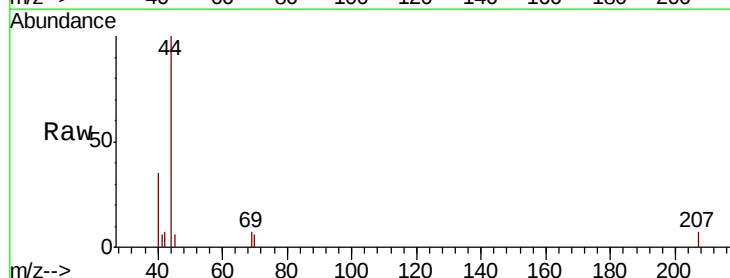
Tgt Ion: 69 Resp: 70

Ion Ratio Lower Upper

69 100

41 84.7 59.7 89.5

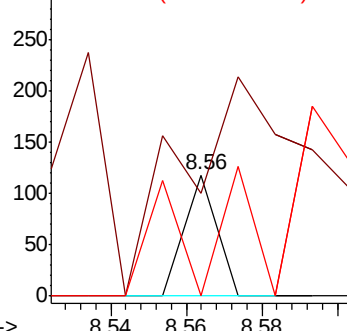
39 0.0 35.0 52.6#



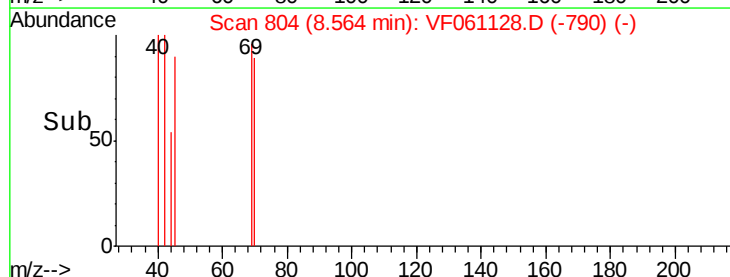
Abundance Ion 69.00 (68.70 to 69.70): VF0

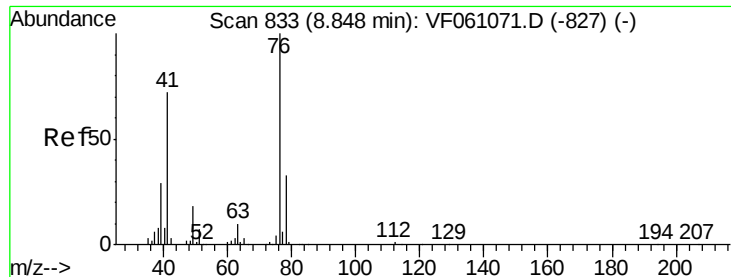
Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->





#57

1,3-Dichloropropane

Concen: 48.164 ug/l

RT: 8.87 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

Instrument :

MSVOA_F

ClientSampleId :

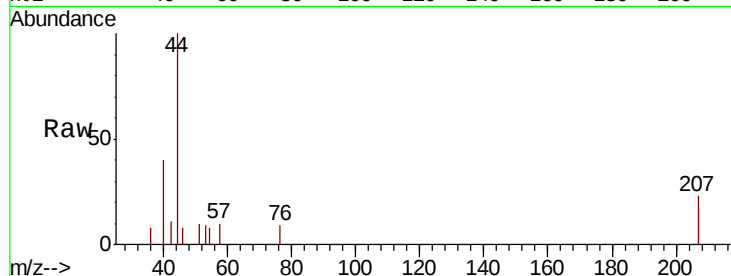
SU-02-121818-B

Tgt Ion: 76 Resp: 70

Ion Ratio Lower Upper

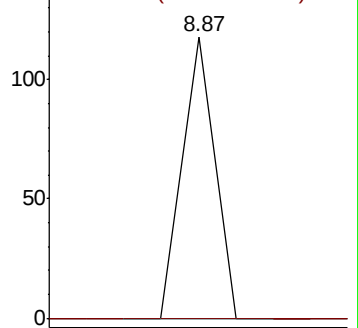
76 100

78 0.0 26.5 39.7#

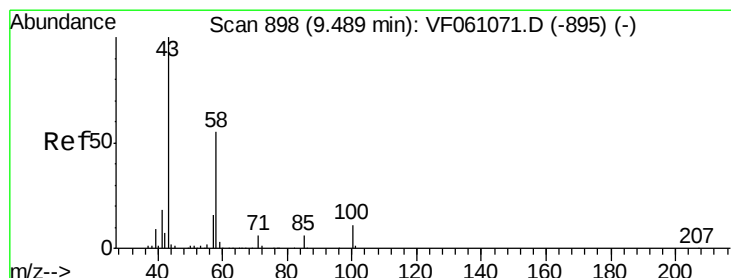
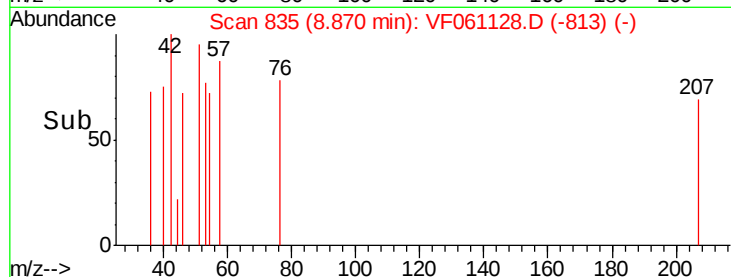


Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



Time-->



#59

2-Hexanone

Concen: 483.428 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061128.D

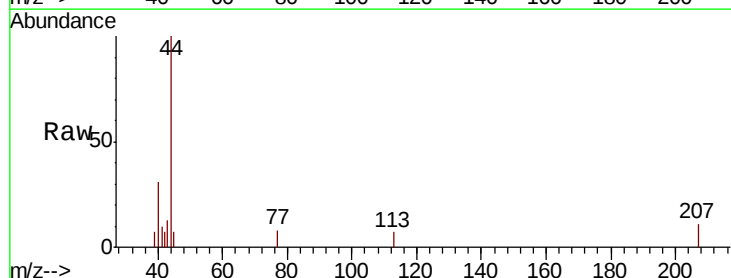
Acq: 21 Dec 2018 16:15

Tgt Ion: 43 Resp: 218

Ion Ratio Lower Upper

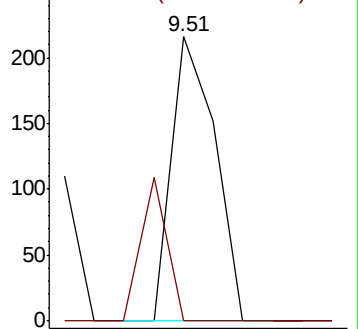
43 100

58 0.0 25.1 75.2#

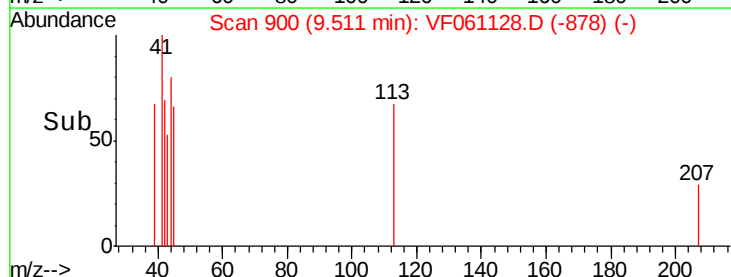


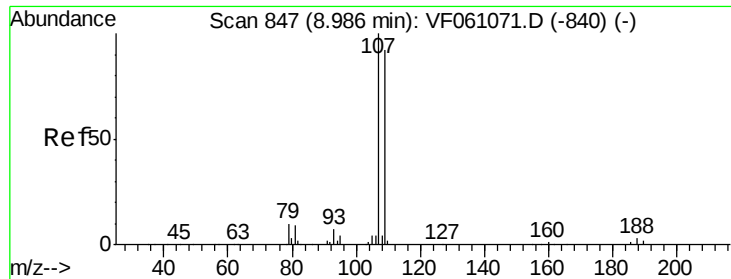
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#61

1,2-Dibromoethane

Concen: 69.912 ug/l

RT: 9.18 min Scan# 866

Delta R.T. 0.19 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

Instrument :

MSVOA_F

ClientSampleId :

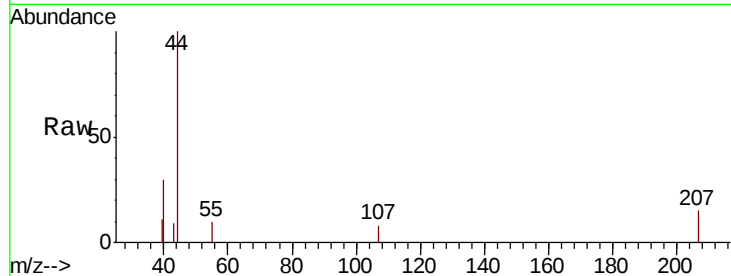
SU-02-121818-B

Tgt Ion: 107 Resp: 60

Ion Ratio Lower Upper

107 100

109 0.0 73.7 110.5#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.18

100

80

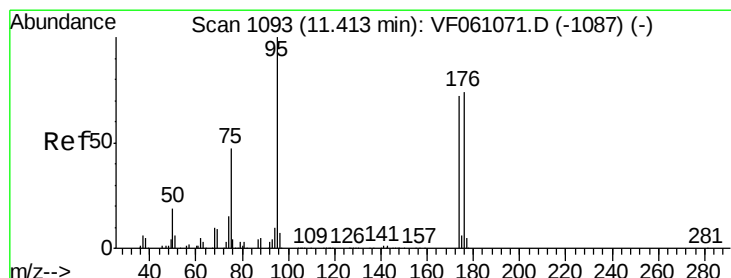
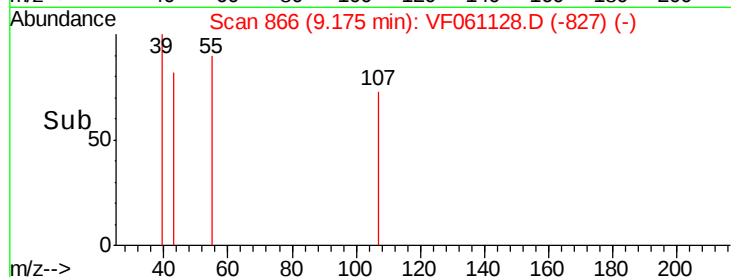
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.264 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061128.D

Acq: 21 Dec 2018 16:15

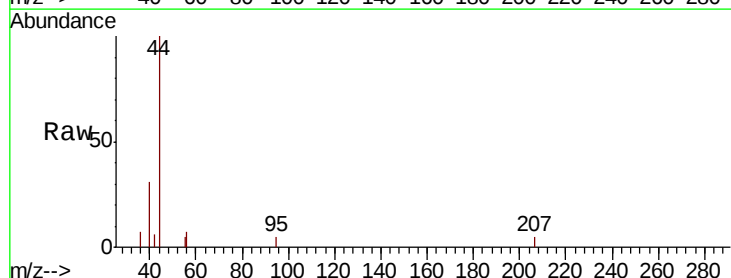
Tgt Ion: 95 Resp: 69

Ion Ratio Lower Upper

95 100

174 0.0 0.0 143.8

176 0.0 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.42

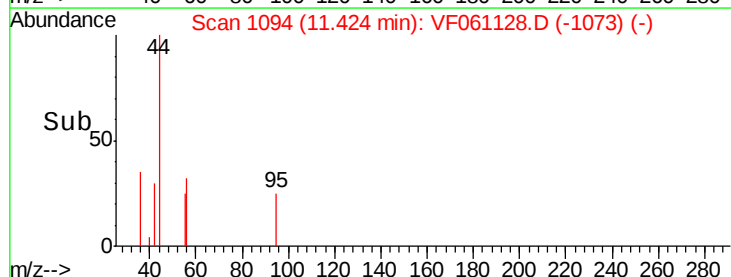
150

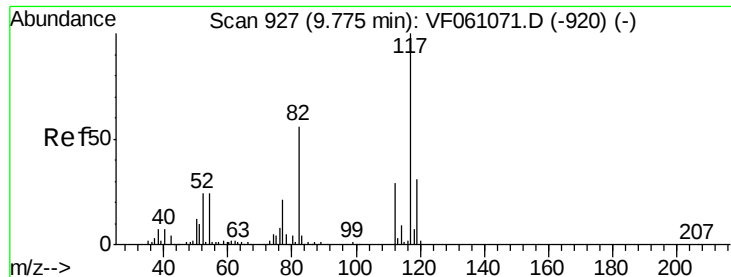
100

50

0

Time-->

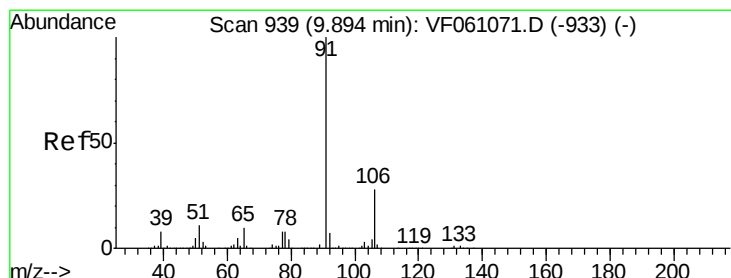
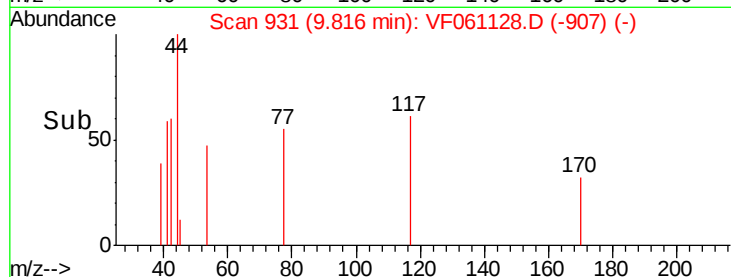
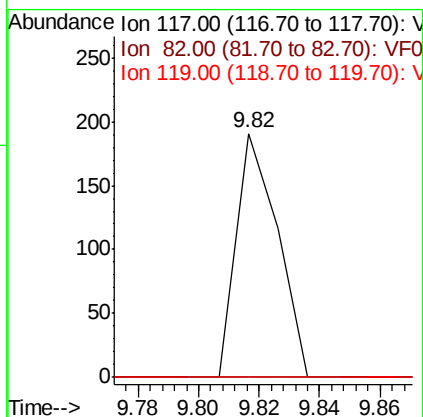
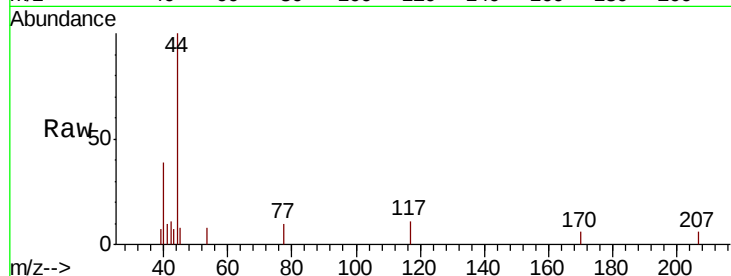




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.82 min Scan# 931
Delta R.T. 0.04 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

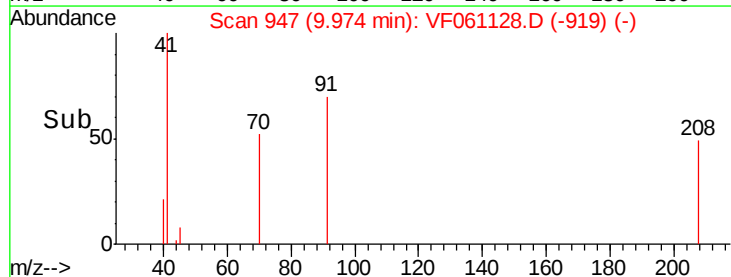
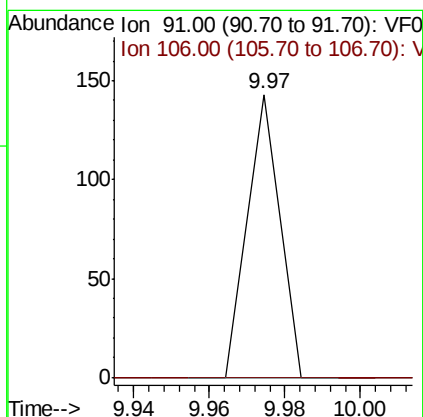
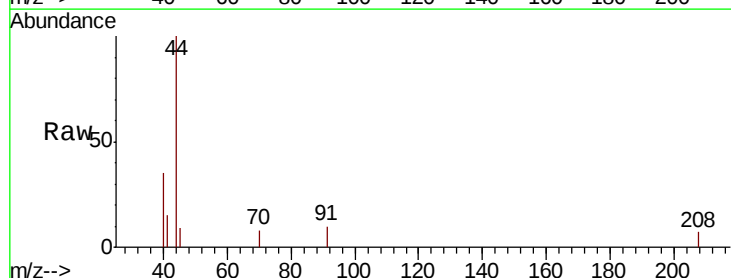
Instrument :
MSVOA_F
ClientSampleId :
SU-02-121818-B

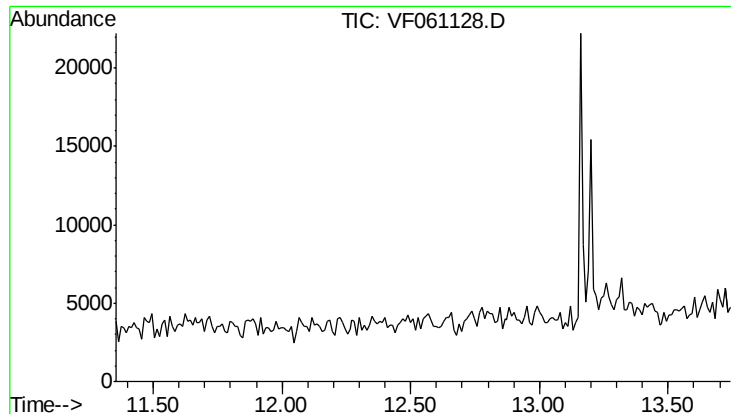
Tgt Ion: 117 Resp: 182
Ion Ratio Lower Upper
117 100
82 0.0 45.0 67.4#
119 0.0 24.8 37.2#



#67
Ethyl Benzene
Concen: 12.409 ug/l
RT: 9.97 min Scan# 947
Delta R.T. 0.08 min
Lab File: VF061128.D
Acq: 21 Dec 2018 16:15

Tgt Ion: 91 Resp: 85
Ion Ratio Lower Upper
91 100
106 0.0 22.5 33.7#





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.55 min
 Lab File: VF061128.D
 Acq: 21 Dec 2018 16:15

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-02-121818-B

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 115 66.6
 150 164.1

