

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053191.D
 Acq On : 24 Dec 2018 17:53
 Operator : MD\SY
 Sample : J6511-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-61(0-5)-GRAB

Quant Time: Dec 24 22:31:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

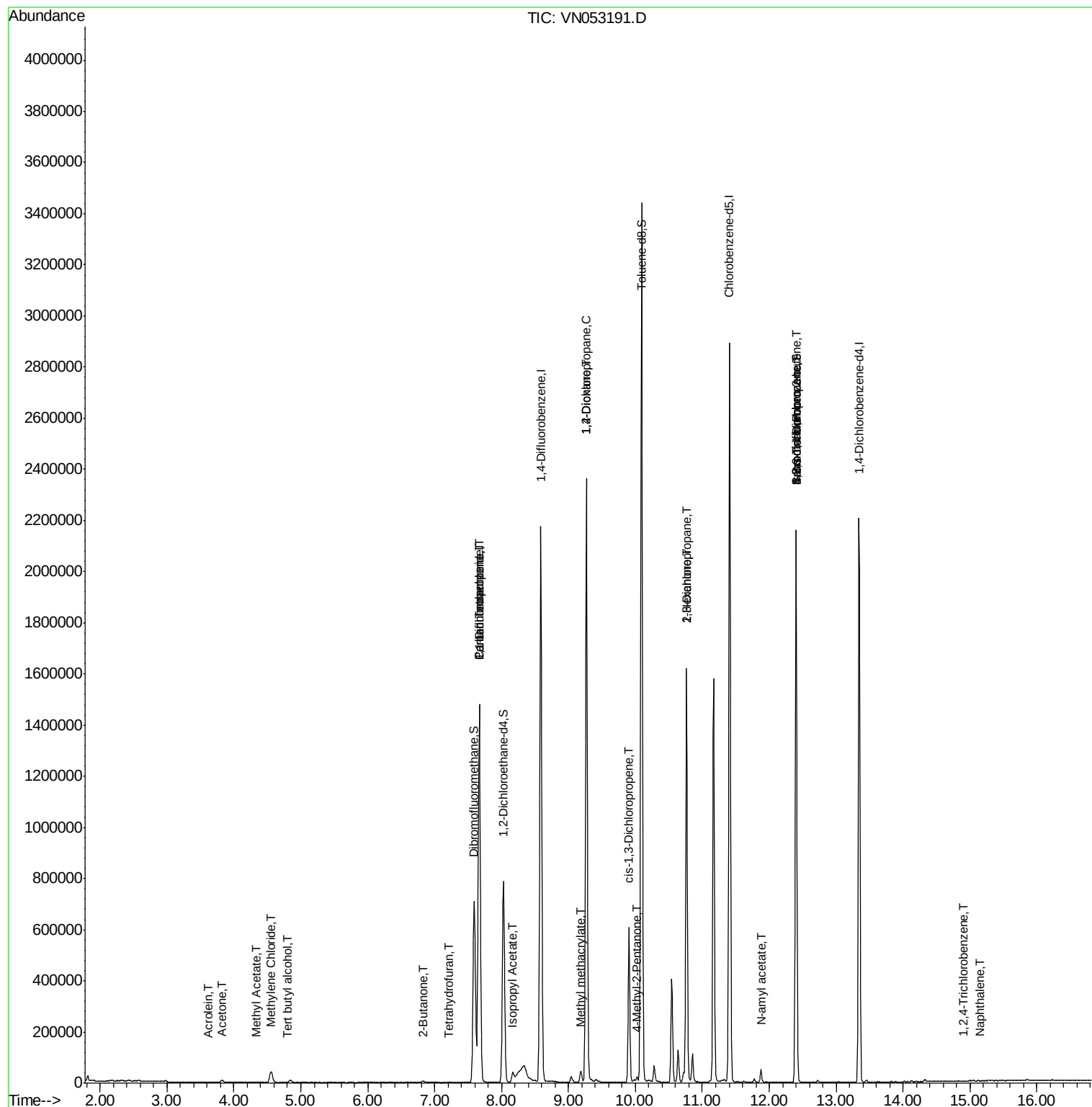
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1305079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2026367	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1759697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	627221	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	652930	49.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.60%	
35) Dibromofluoromethane	7.59	113	544975	58.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.76%	
50) Toluene-d8	10.09	98	2469122	49.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	12.40	95	756872	43.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.78%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.79	59	304	0.376	ug/l #	74
13) Acrolein	3.61	56	150	0.205	ug/l #	14
16) Acetone	3.82	43	17575	6.768	ug/l	93
18) Methyl Acetate	4.33	43	5806	1.475	ug/l #	65
20) Methylene Chloride	4.55	84	33866	2.391	ug/l	99
25) 2-Butanone	6.84	43	3261	0.748	ug/l #	83
29) Tetrahydrofuran	7.22	42	907	0.279	ug/l #	62
31) Cyclohexane	7.67	56	21447	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	86013	4.422	ug/l #	48
38) Carbon Tetrachloride	7.67	117	112588	6.315	ug/l #	15
43) Isopropyl Acetate	8.17	43	55325	1.622	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	3032	0.201	ug/l #	44
48) Methyl methacrylate	9.18	41	15460	1.467	ug/l #	12
49) 1,4-Dioxane	9.26	88	178	1.336	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17124	1.629	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	112866	5.011	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	16735	0.780	ug/l #	42
59) 2-Hexanone	10.76	43	230083	32.342	ug/l #	50
71) Bromoform	12.40	173	4675	0.477	ug/l #	1
74) N-amyl acetate	11.88	43	14849	1.090	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	354081	33.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	354081	108.087	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	275	0.620	ug/l #	49
95) Naphthalene	15.14	128	722	1.175	ug/l #	69

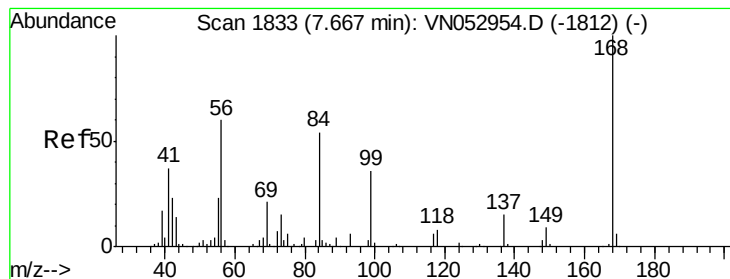
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

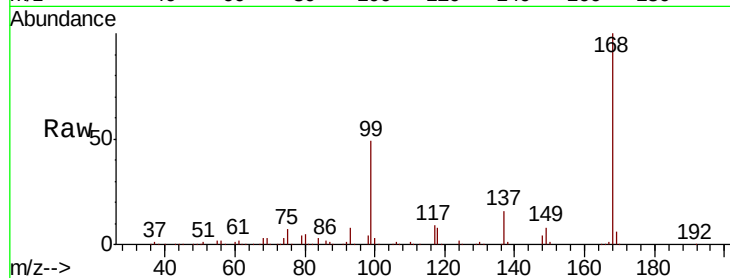
SB-61(0-5)-GRAB

Tot Ion:168 Resp: 1305079

Ion Ratio Lower Upper

168 100

99 49.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053191.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053191.D (-1740) (-)

7.67

600000

500000

400000

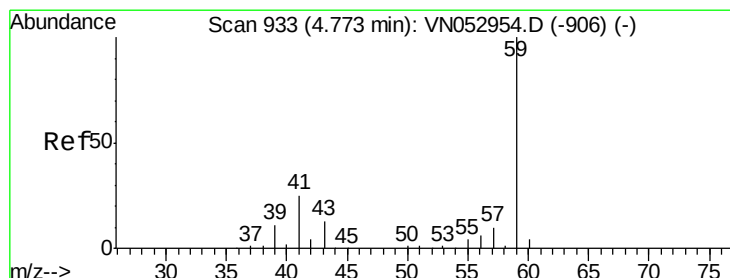
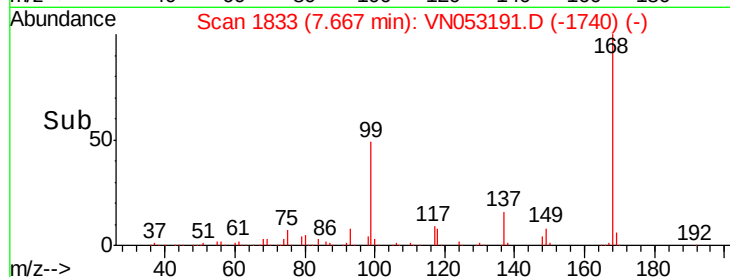
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.376 ug/l

RT: 4.79 min Scan# 938

Delta R.T. 0.02 min

Lab File: VN053191.D

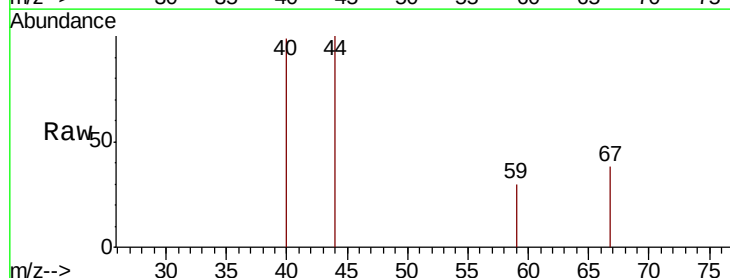
Acq: 24 Dec 2018 17:53

Tgt Ion: 59 Resp: 304

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN053191.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN053191.D (-840) (-)

4.79

300

250

200

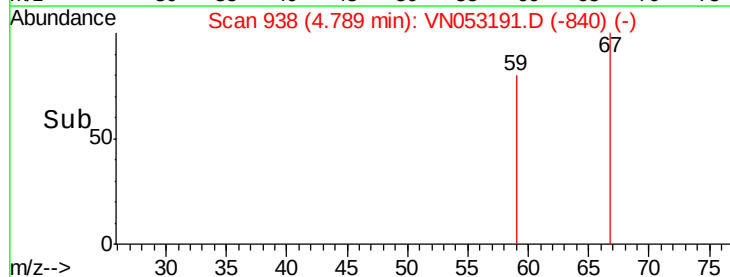
150

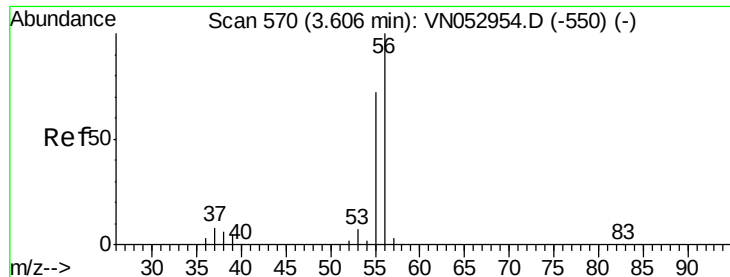
100

50

0

Time-->





#13

Acrolein

Concen: 0.205 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

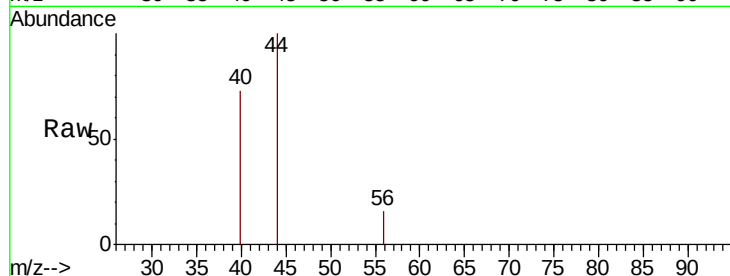
SB-61(0-5)-GRAB

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

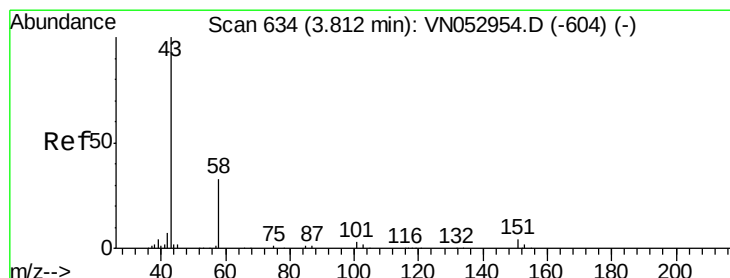
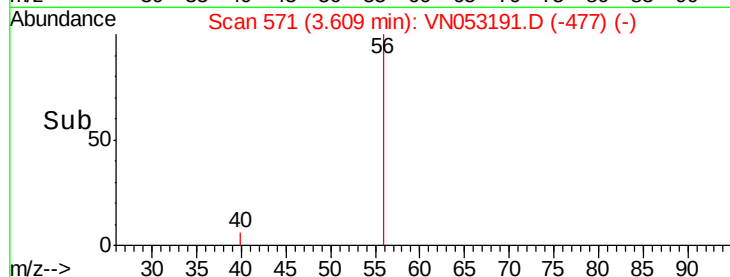
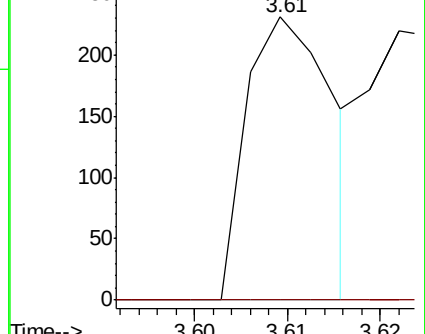
56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 6.768 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053191.D

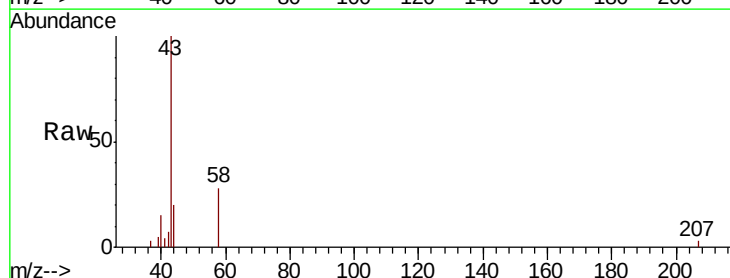
Acq: 24 Dec 2018 17:53

Tgt Ion: 43 Resp: 17575

Ion Ratio Lower Upper

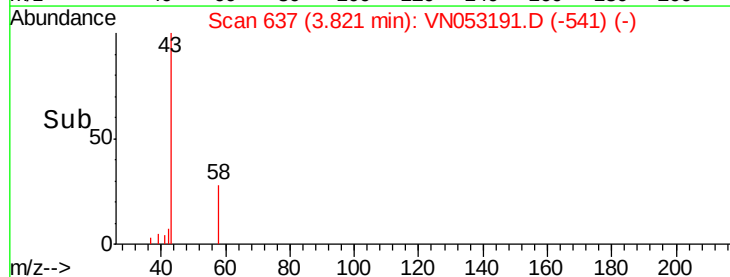
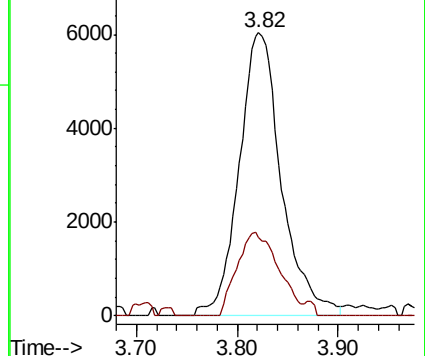
43 100

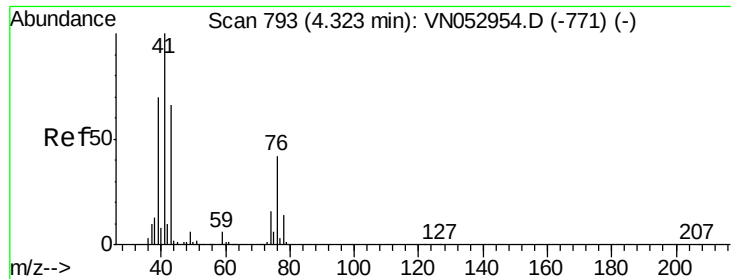
58 27.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

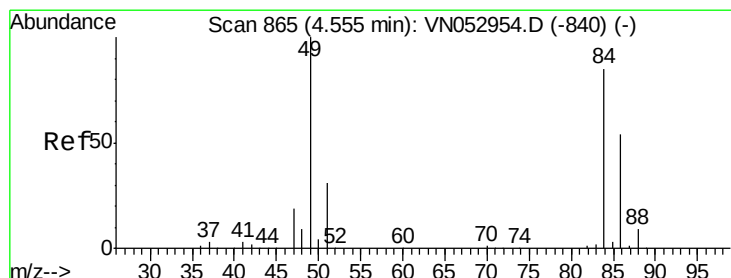
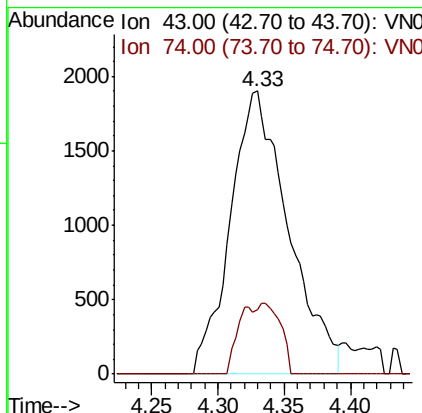
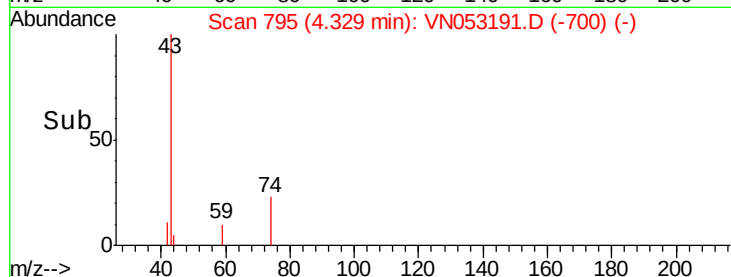
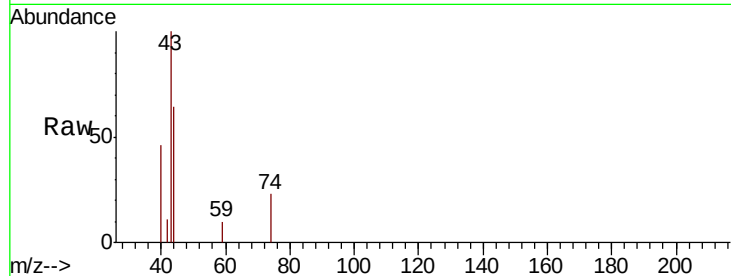




#18
Methyl Acetate
Concen: 1.475 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

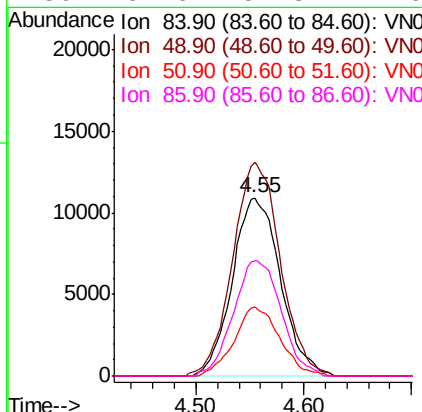
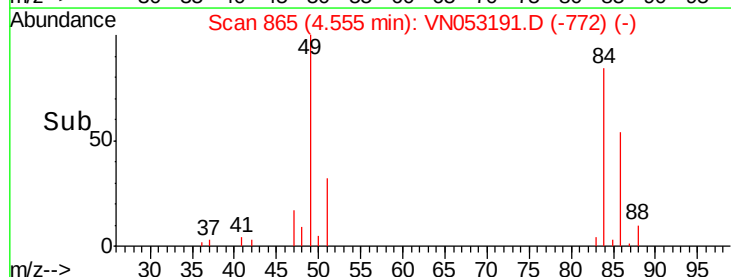
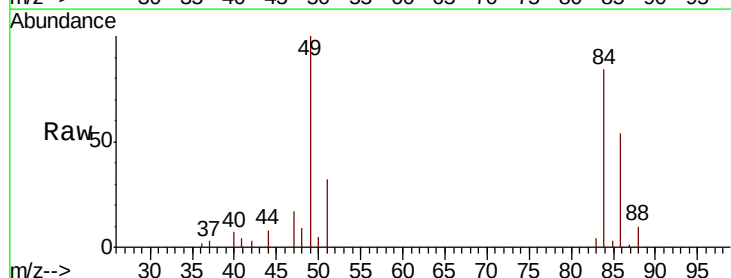
Instrument :
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SB-61(0-5)-GRAB

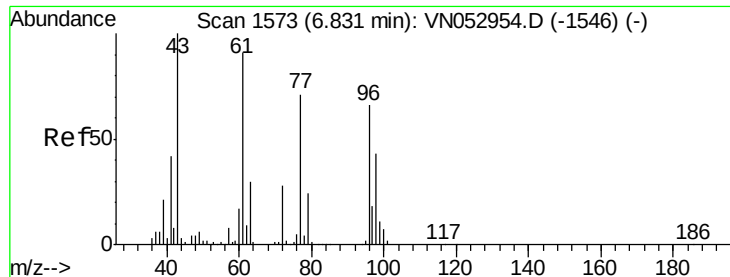
Tot Ion: 43 Resp: 5806
Ion Ratio Lower Upper
43 100
74 7.0 19.2 28.8#



#20
Methylene Chloride
Concen: 2.391 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

Tgt Ion: 84 Resp: 33866
Ion Ratio Lower Upper
84 100
49 119.7 96.8 145.2
51 38.5 29.9 44.9
86 64.6 51.8 77.6





#25

2-Butanone

Concen: 0.748 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

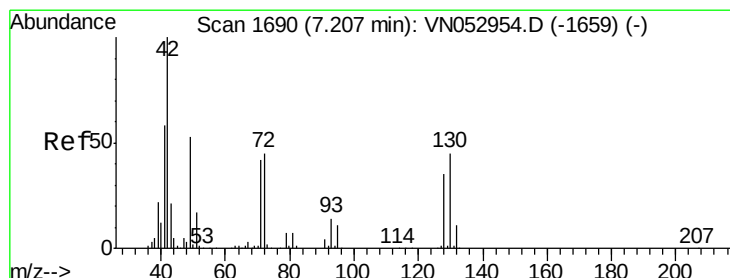
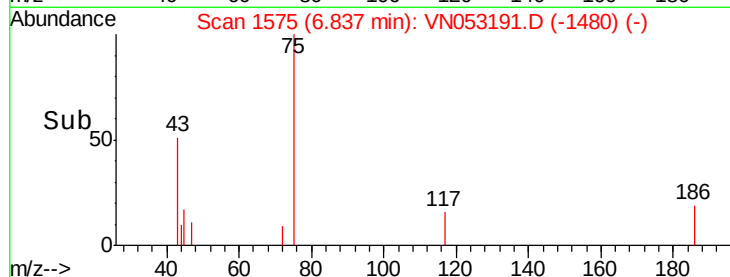
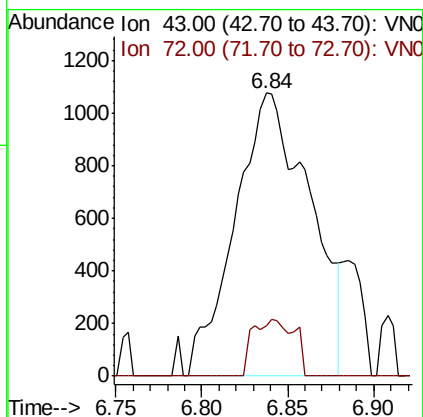
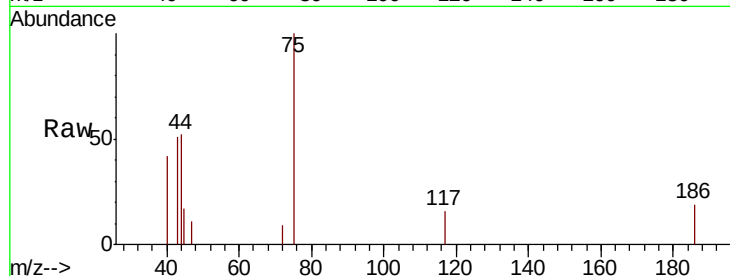
SB-61(0-5)-GRAB

Tot Ion: 43 Resp: 3261

Ion Ratio Lower Upper

43 100

72 17.8 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.279 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

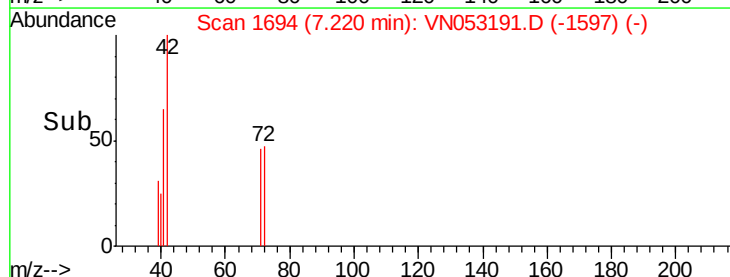
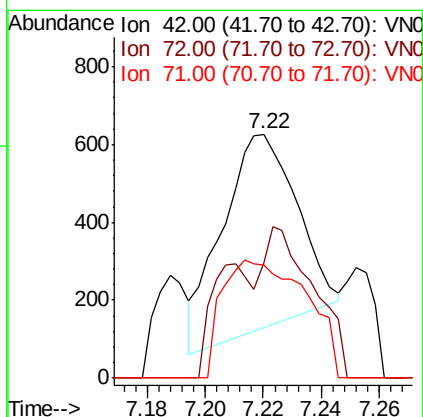
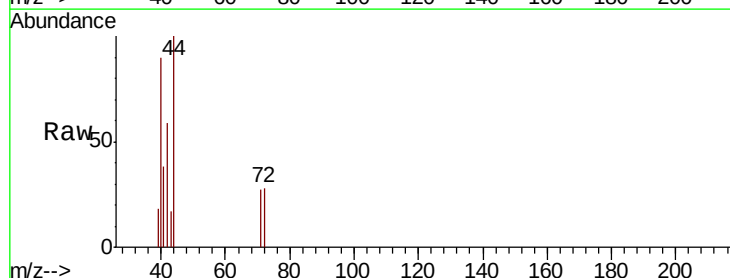
Tgt Ion: 42 Resp: 907

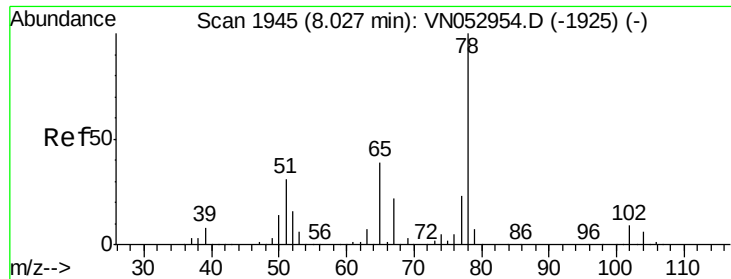
Ion Ratio Lower Upper

42 100

72 52.0 34.7 52.1

71 0.0 32.3 48.5#

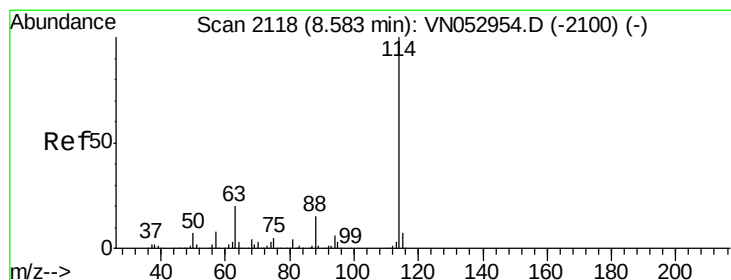
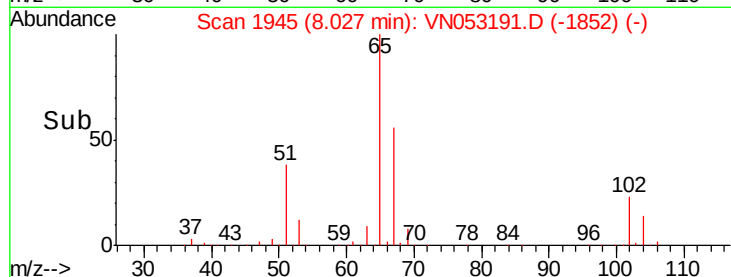
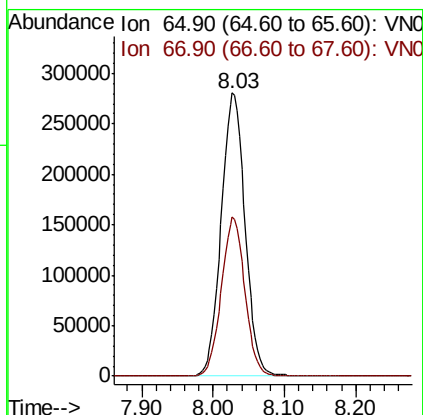
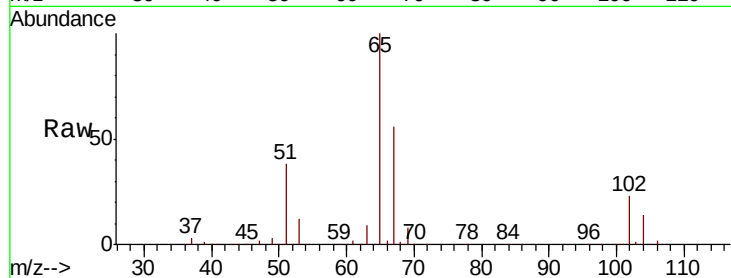




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

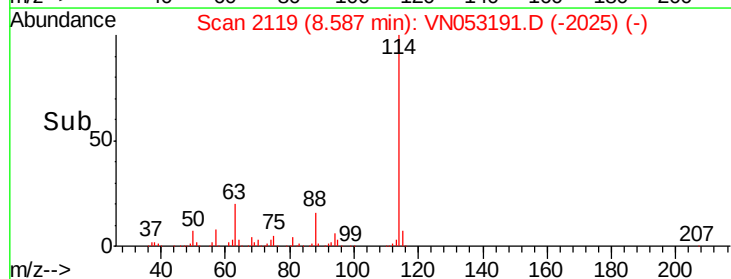
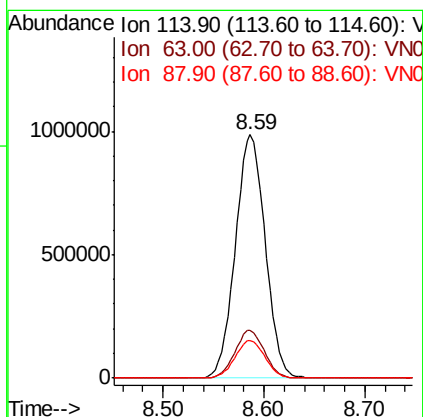
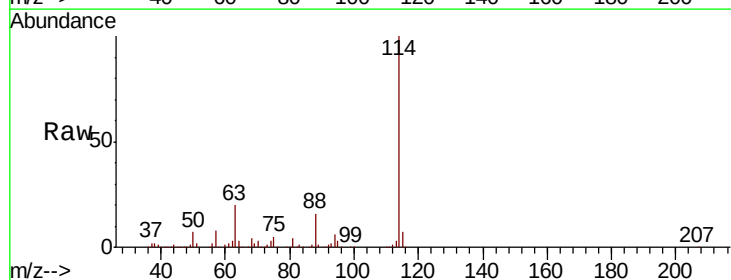
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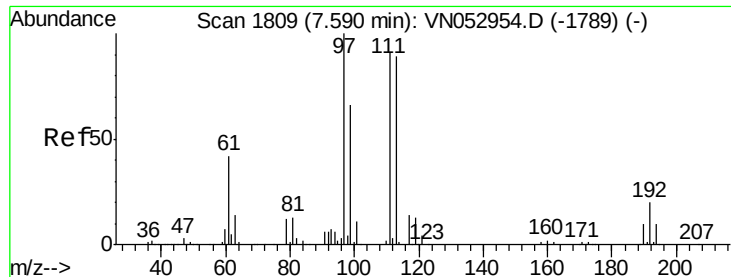
Tot Ion: 65 Resp: 652930
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

Tgt Ion: 114 Resp: 2026367
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.6 0.0 31.0

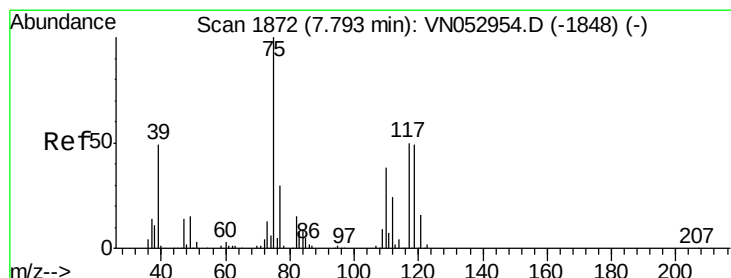
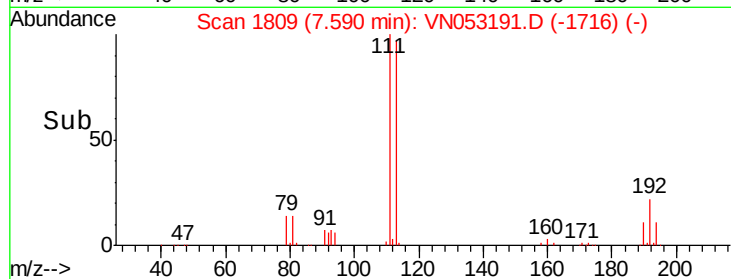
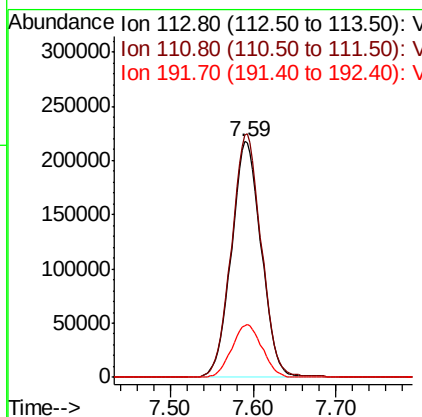
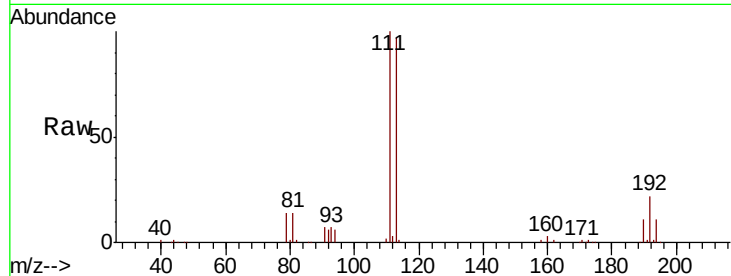




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

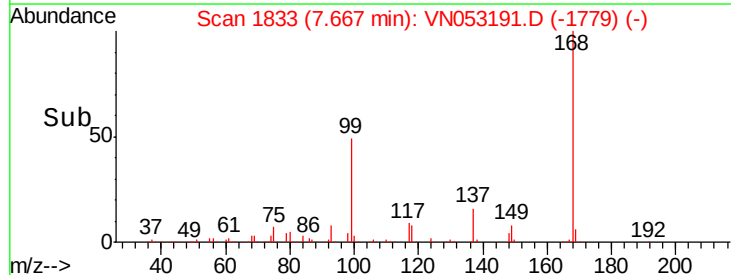
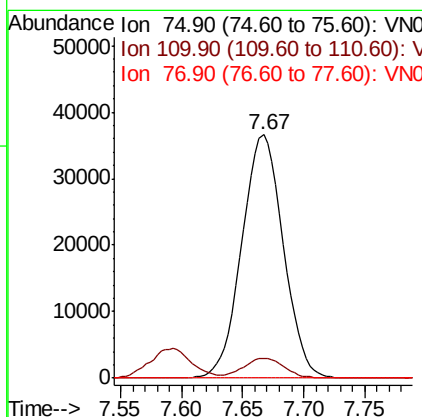
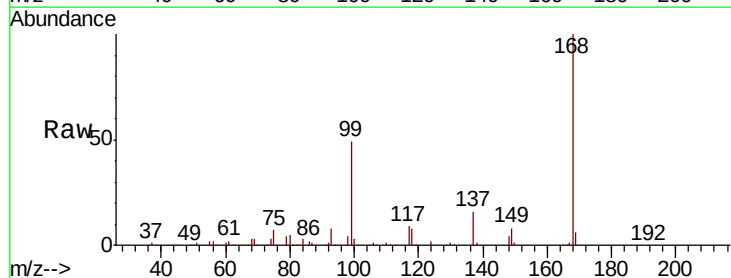
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 MSVOA_N
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 SB-61(0-5)-GRAB

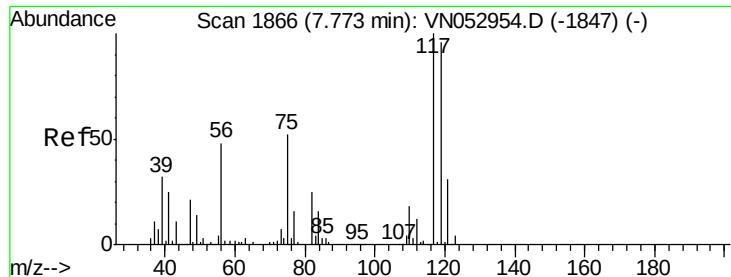
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.0	124.4
192	22.7	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.422 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.315 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

SB-61(0-5)-GRAB

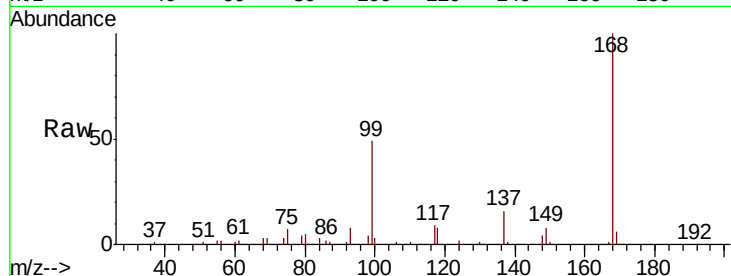
Tot Ion:117 Resp: 112588

Ion Ratio Lower Upper

117 100

119 4.6 77.1 115.7#

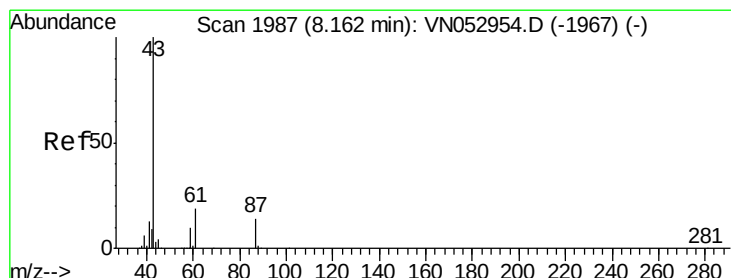
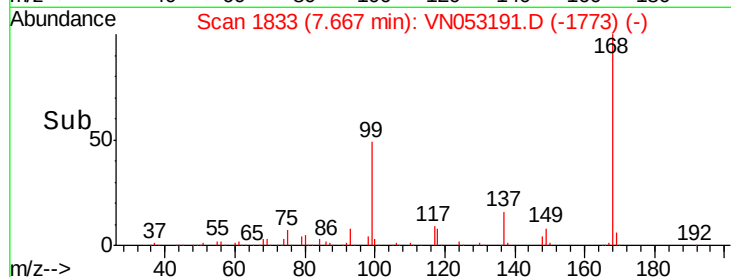
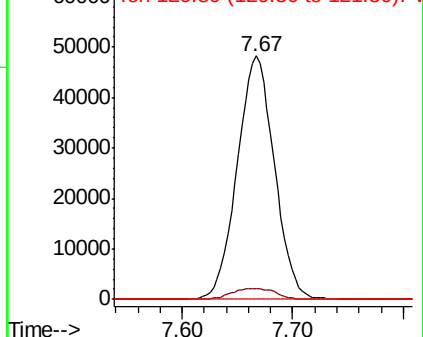
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.622 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

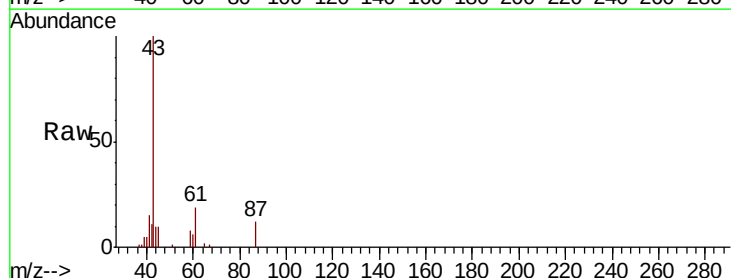
Tgt Ion: 43 Resp: 55325

Ion Ratio Lower Upper

43 100

61 17.1 22.9 34.3#

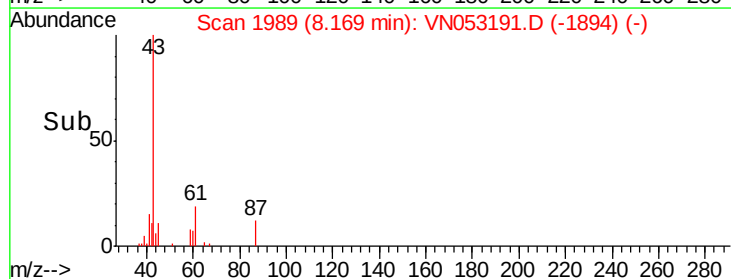
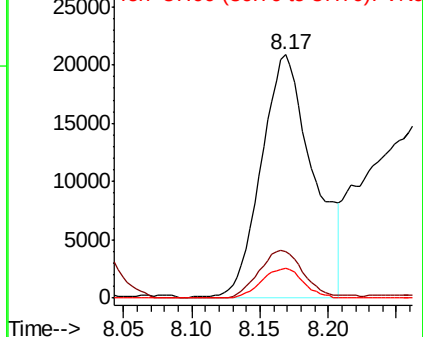
87 9.9 10.6 15.8#

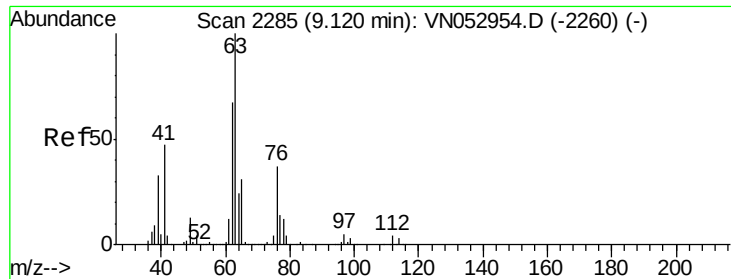


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

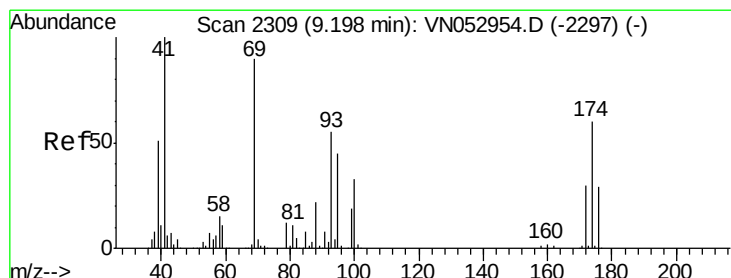
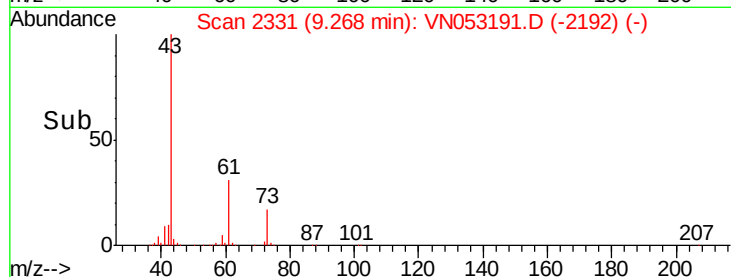
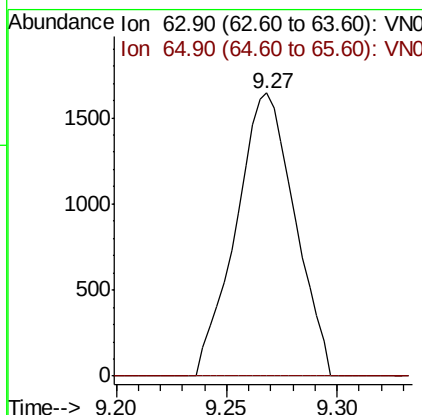
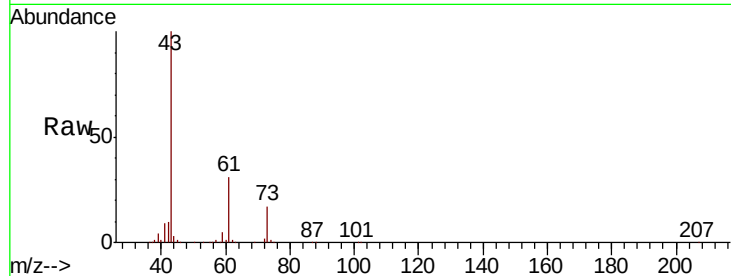




#45
 1,2-Dichloropropane
 Concen: 0.201 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

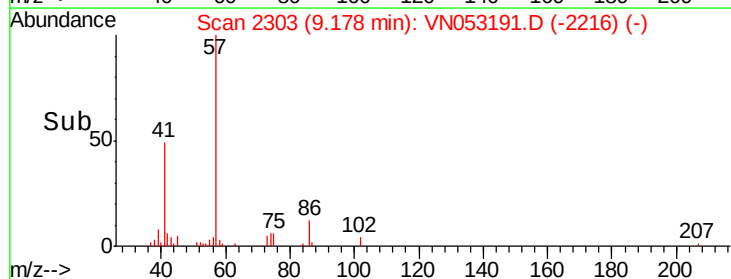
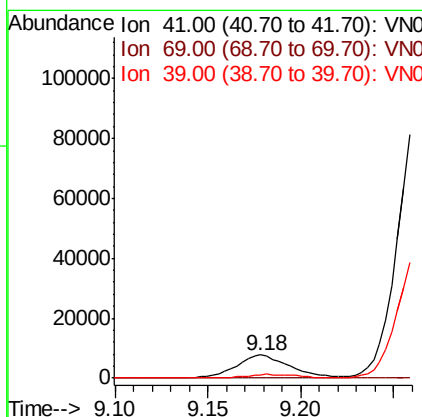
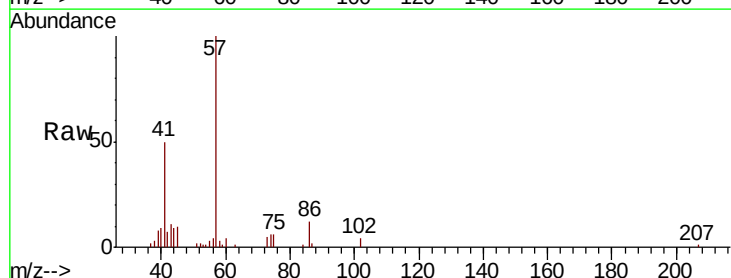
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-61(0-5)-GRAB

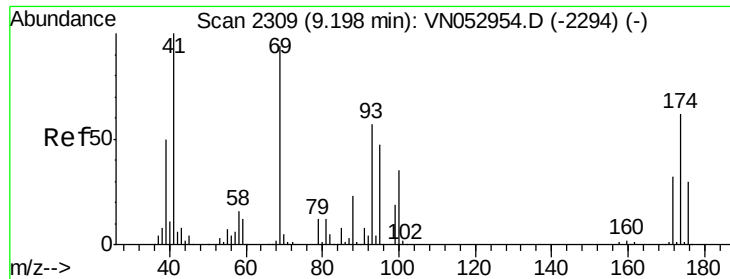
Tot Ion: 63 Resp: 3032
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 1.467 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053191.D
 Acq: 24 Dec 2018 17:53

Tgt Ion: 41 Resp: 15460
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 0.0 41.9 62.9#





#49

1,4-Dioxane

Concen: 1.336 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

SB-61(0-5)-GRAB

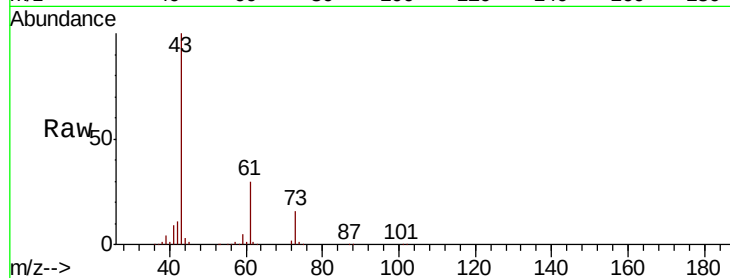
Tot Ion: 88 Resp: 178

Ion Ratio Lower Upper

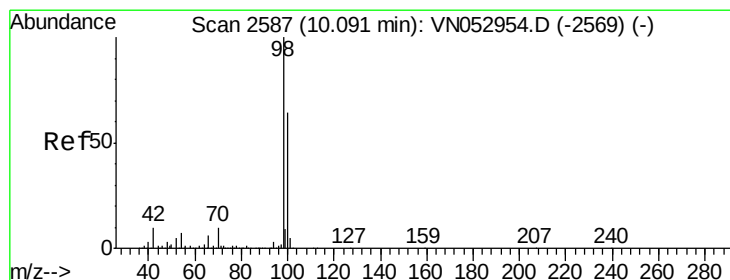
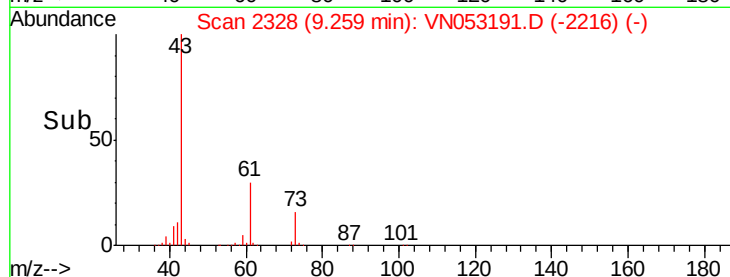
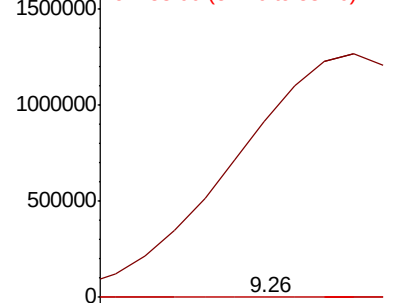
88 100

43 1290516.3 26.6 40.0#

58 5374.2 58.4 87.6#



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



#50

Toluene-d8

Concen: 1.336 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053191.D

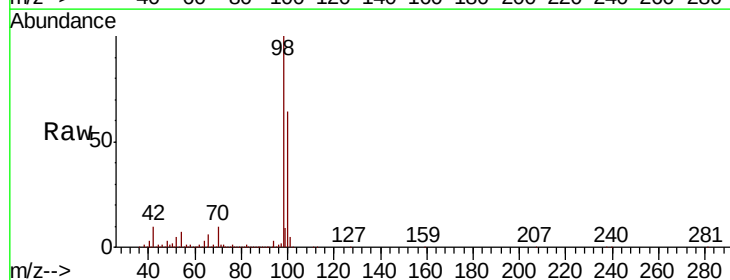
Acq: 24 Dec 2018 17:53

Tgt Ion: 98 Resp: 2469122

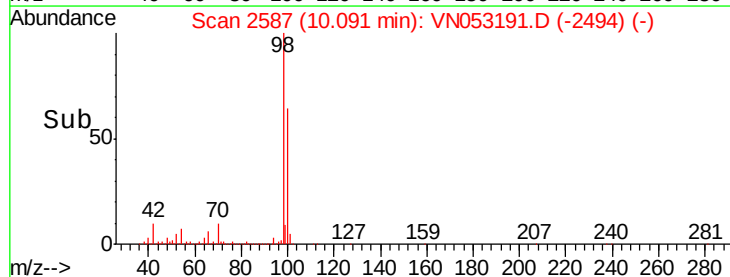
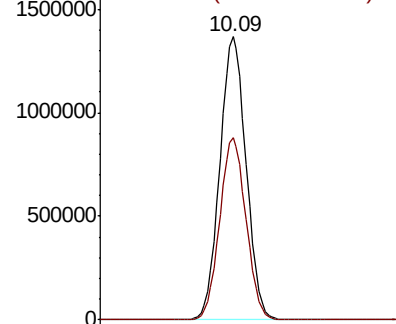
Ion Ratio Lower Upper

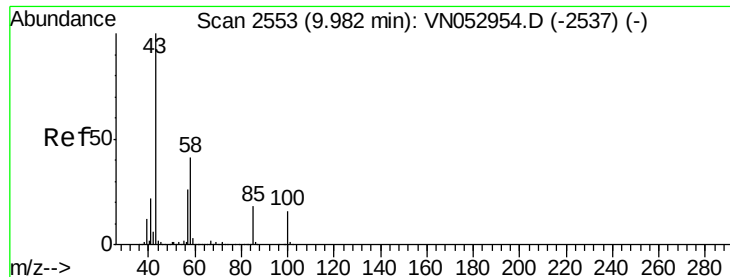
98 100

100 64.5 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 1.629 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

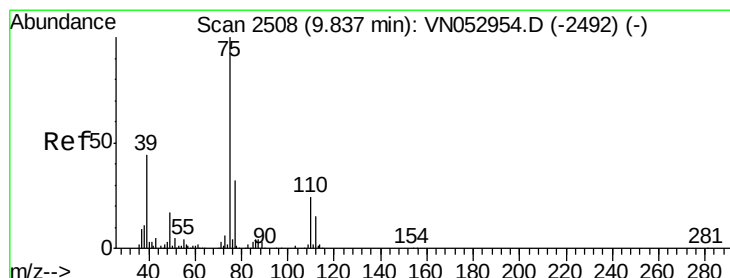
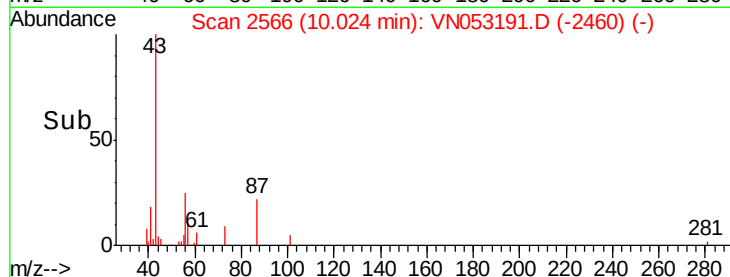
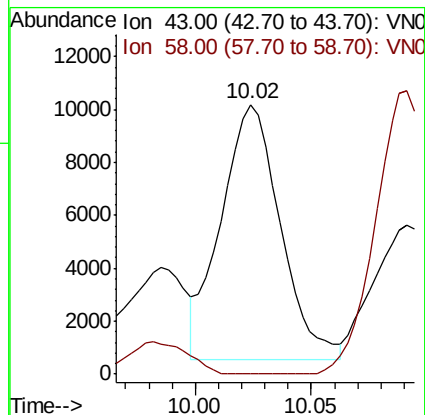
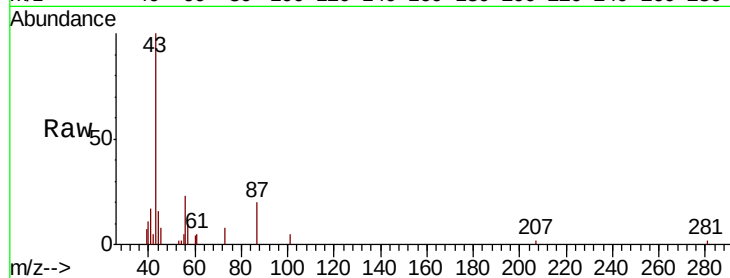
SB-61(0-5)-GRAB

Tot Ion: 43 Resp: 17124

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 5.011 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

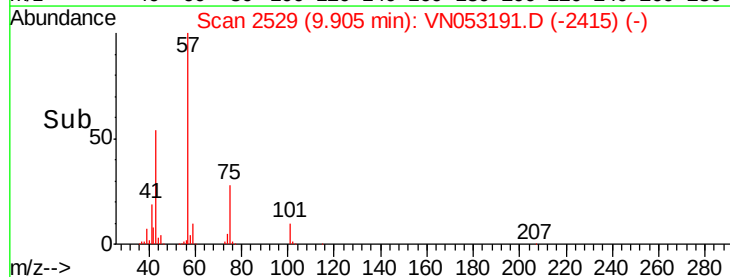
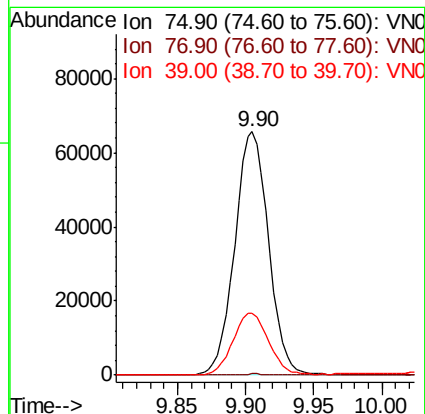
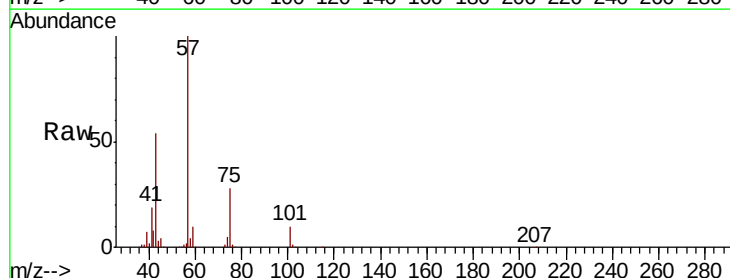
Tgt Ion: 75 Resp: 112866

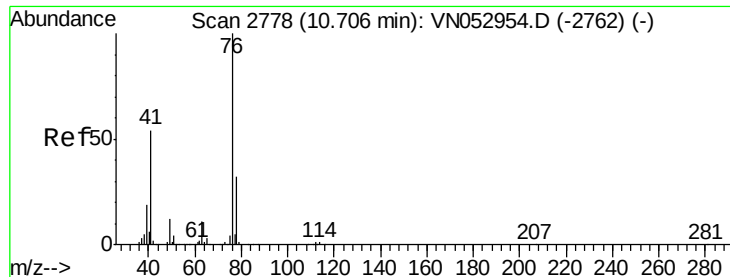
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 25.6 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 0.780 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

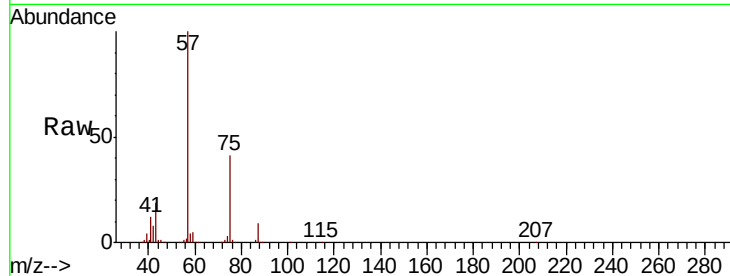
SB-61(0-5)-GRAB

Tot Ion: 76 Resp: 16735

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

12000

10000

8000

6000

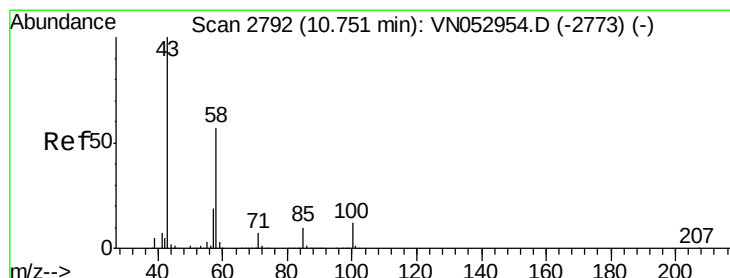
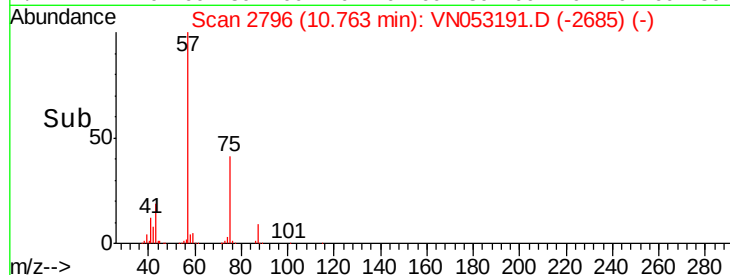
4000

2000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 32.342 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053191.D

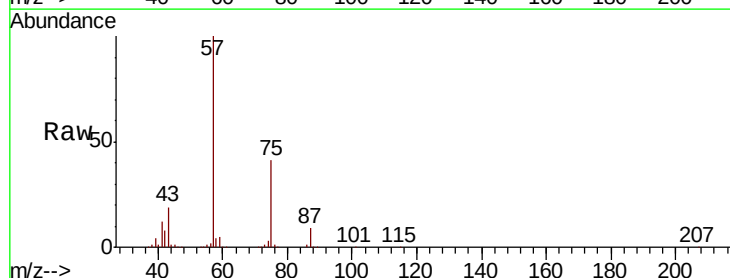
Acq: 24 Dec 2018 17:53

Tgt Ion: 43 Resp: 230083

Ion Ratio Lower Upper

43 100

58 19.9 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

150000

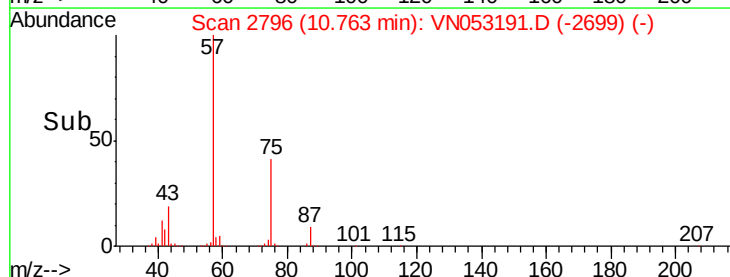
100000

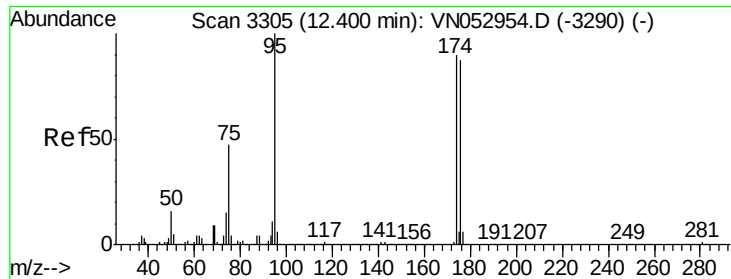
50000

0

Time-->

10.70 10.75 10.80

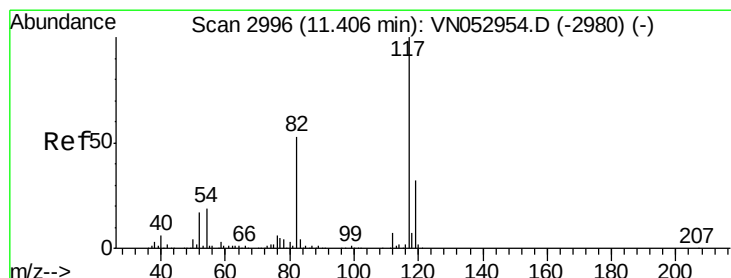
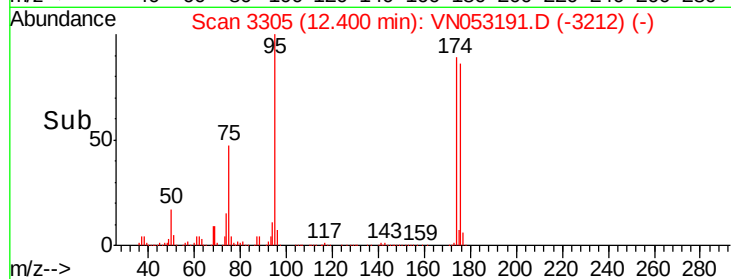
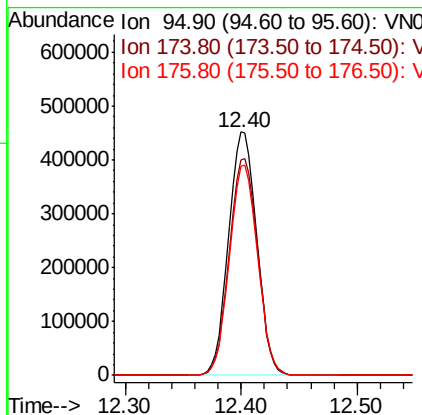
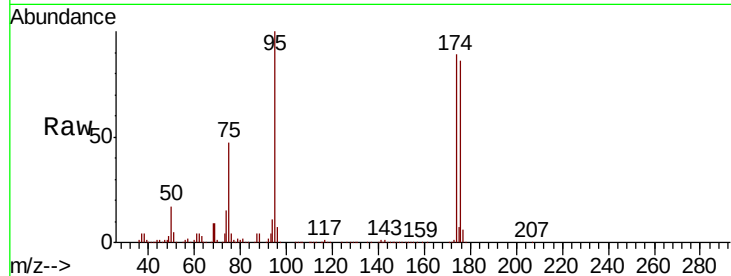




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

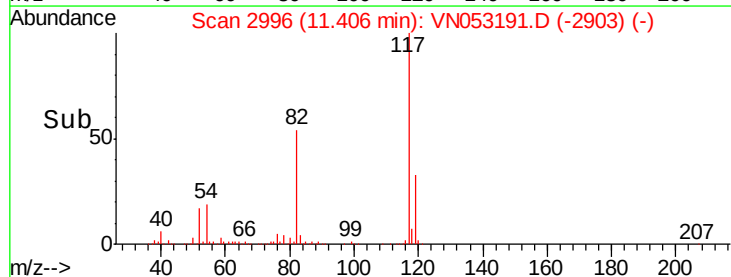
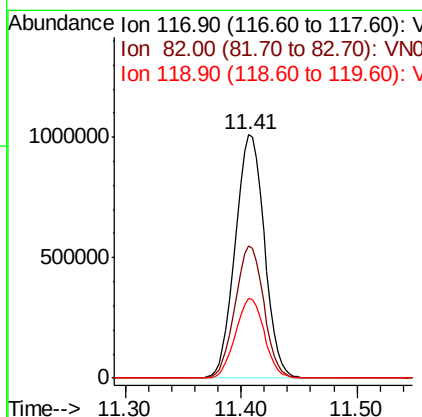
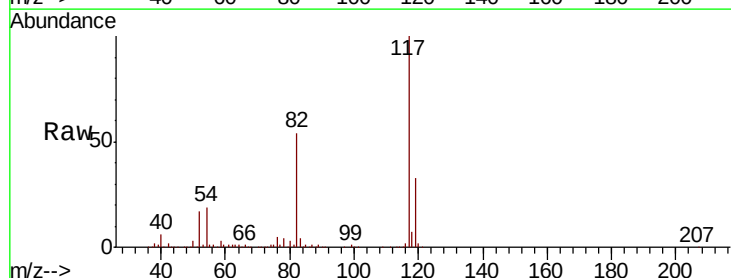
Instrument :
MSVOA_N
ClientSampleId :
SB-61(0-5)-GRAB

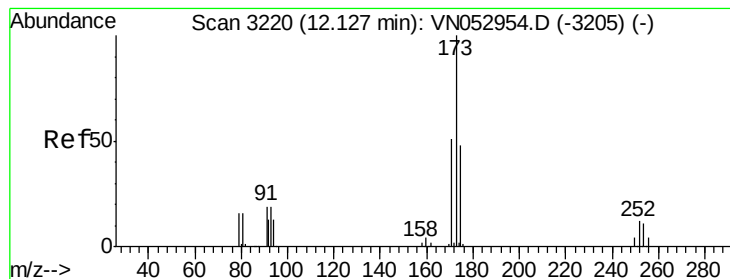
Tot Ion: 95 Resp: 756872
Ion Ratio Lower Upper
95 100
174 89.9 0.0 178.8
176 86.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

Tgt Ion: 117 Resp: 1759697
Ion Ratio Lower Upper
117 100
82 54.5 42.8 64.2
119 32.6 25.5 38.3





#71

Bromoform

Concen: 0.477 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

SB-61(0-5)-GRAB

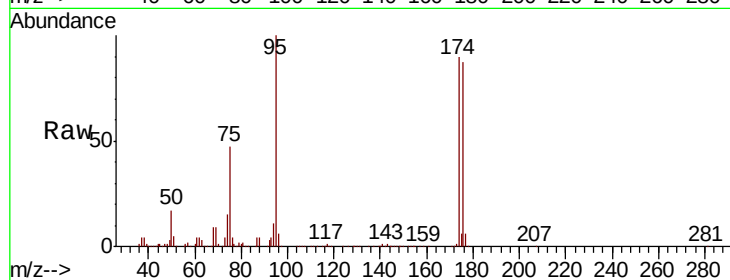
Tot Ion:173 Resp: 4675

Ion Ratio Lower Upper

173 100

175 923.0 24.3 72.9#

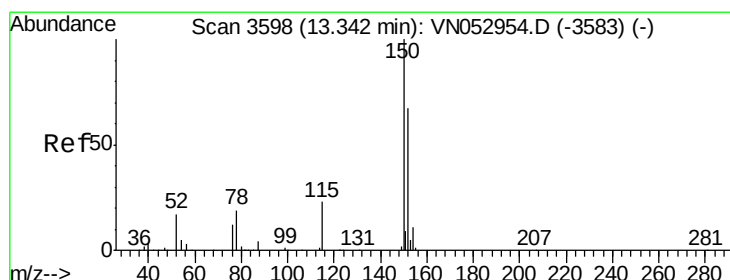
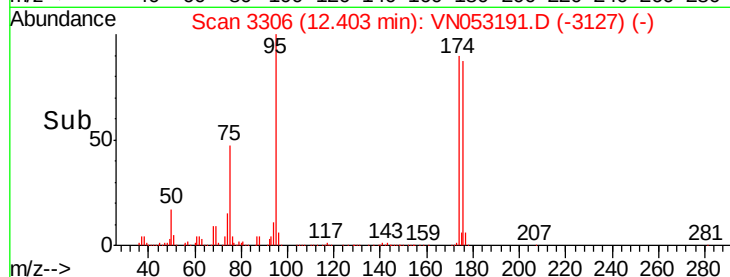
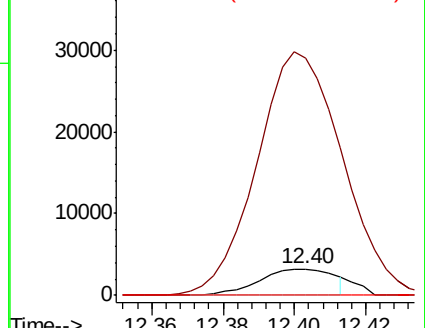
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

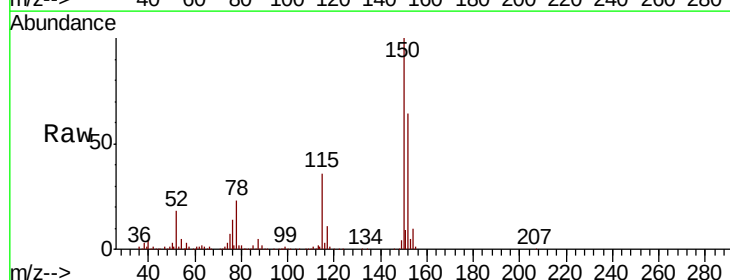
Tgt Ion:152 Resp: 627221

Ion Ratio Lower Upper

152 100

115 56.4 28.3 85.0

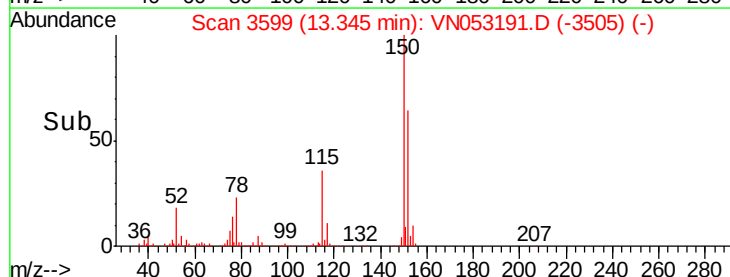
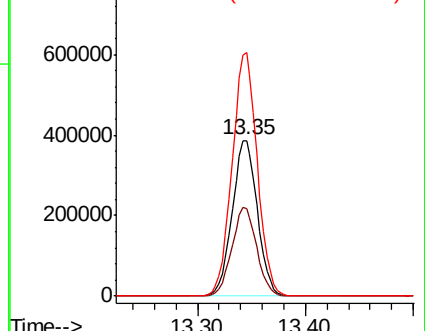
150 156.4 0.0 347.8

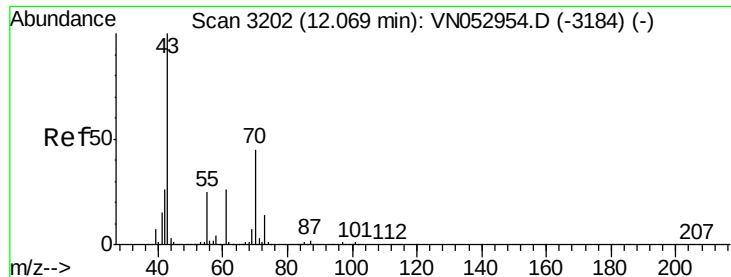


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

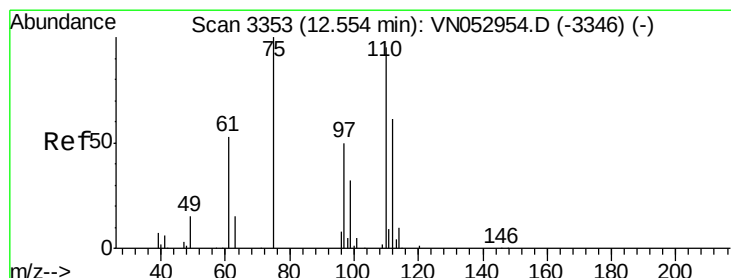
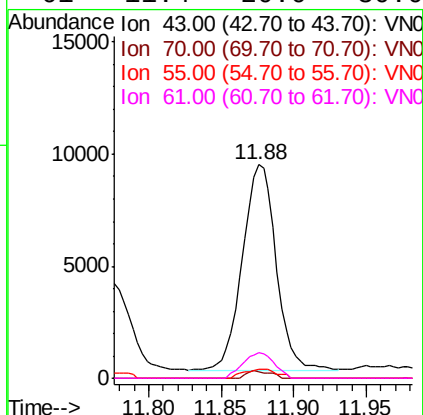
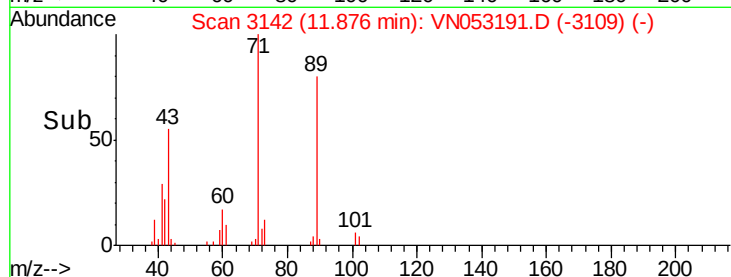
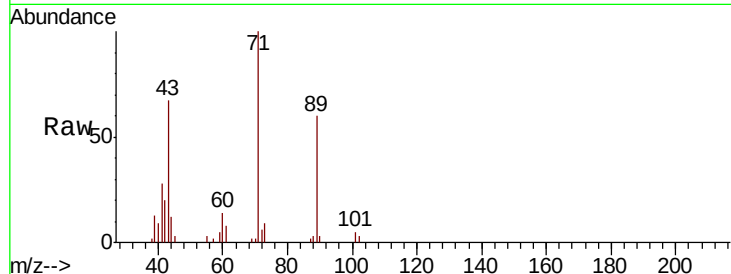




#74
N-amyl acetate
Concen: 1.090 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

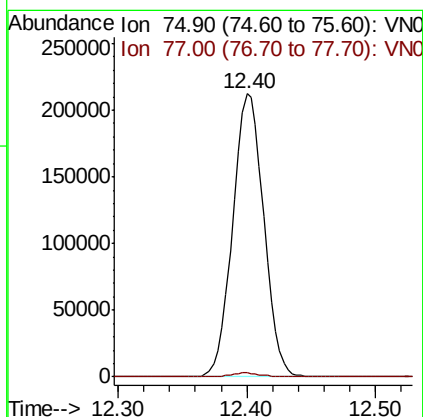
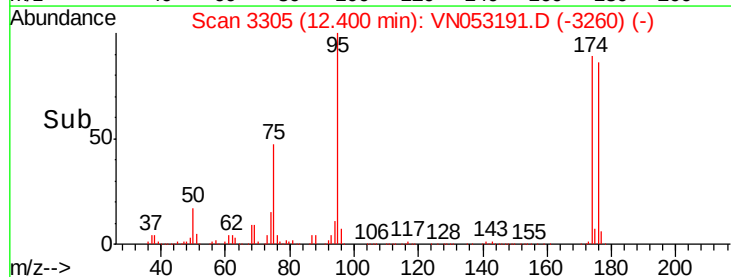
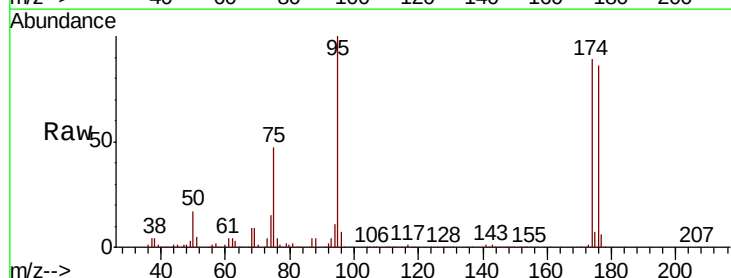
Instrument :
MSVOA_N
ClientSampled :
SB-61(0-5)-GRAB

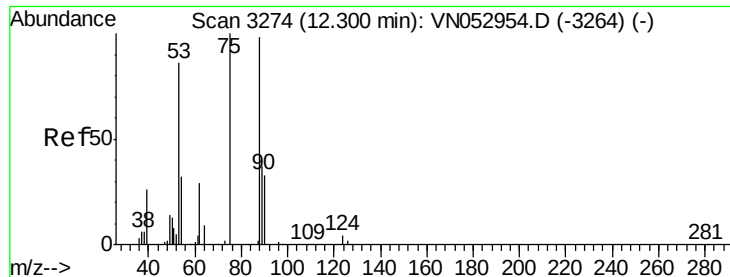
Tot Ion: 43 Resp: 14849
Ion Ratio Lower Upper
43 100
70 2.5 34.2 51.4#
55 4.2 20.3 30.5#
61 11.4 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 33.535 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053191.D
Acq: 24 Dec 2018 17:53

Tgt Ion: 75 Resp: 354081
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 108.087 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

SB-61(0-5)-GRAB

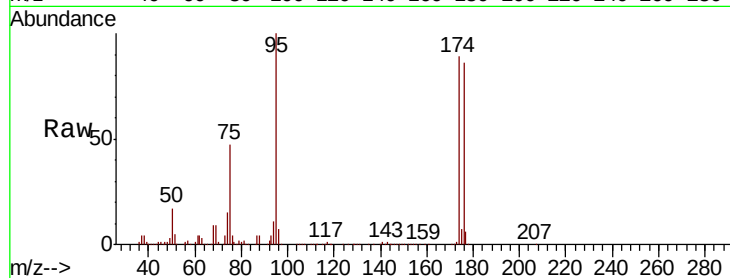
Tot Ion: 75 Resp: 354081

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

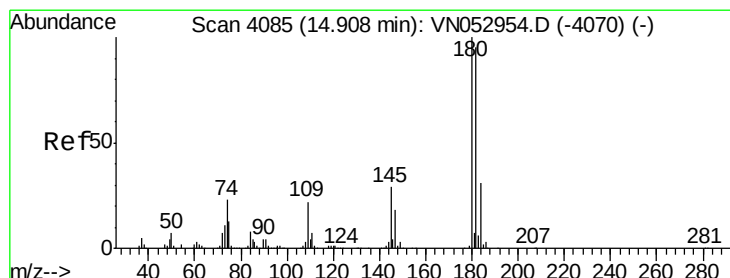
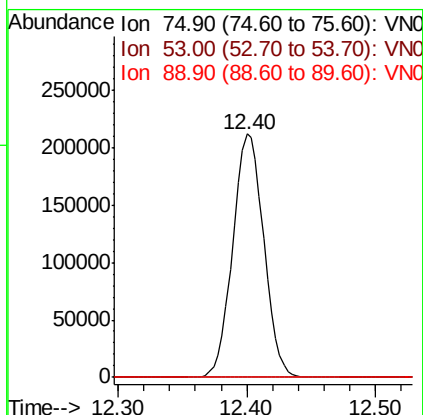
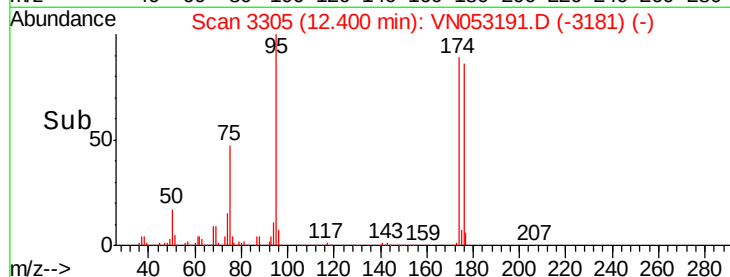


Abundance Ion 74.90 (74.60 to 75.60): VN053191.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053191.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053191.D (-3181) (-)

Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 0.620 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053191.D

Acq: 24 Dec 2018 17:53

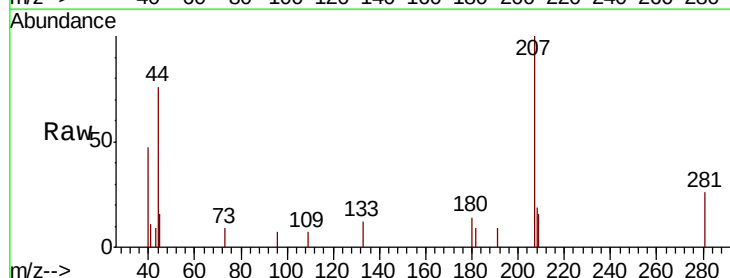
Tgt Ion: 180 Resp: 275

Ion Ratio Lower Upper

180 100

182 46.5 47.8 143.3#

145 0.0 14.2 42.6#

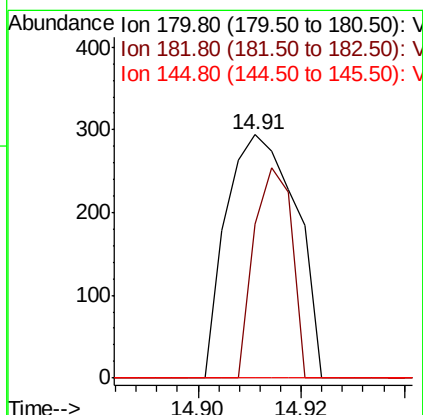
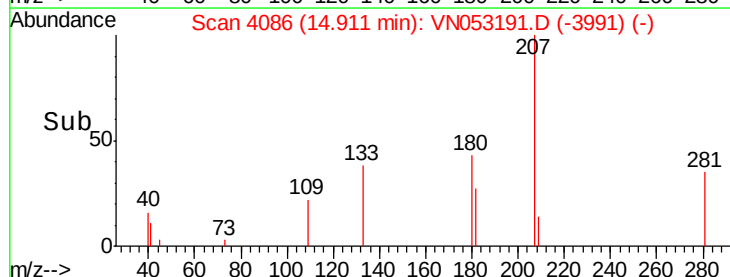


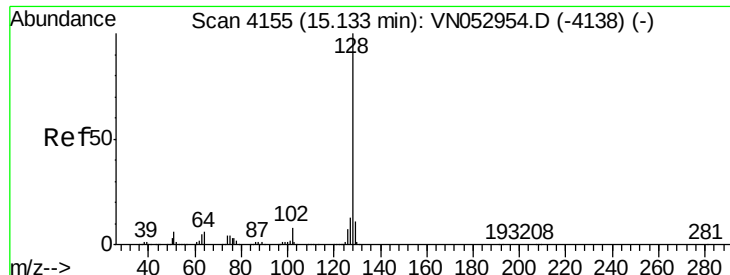
Abundance Ion 179.80 (179.50 to 180.50): VN053191.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN053191.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN053191.D (-3991) (-)

Time--> 14.90 14.92





#95

Naphthalene

Concen: 1.175 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053191.D

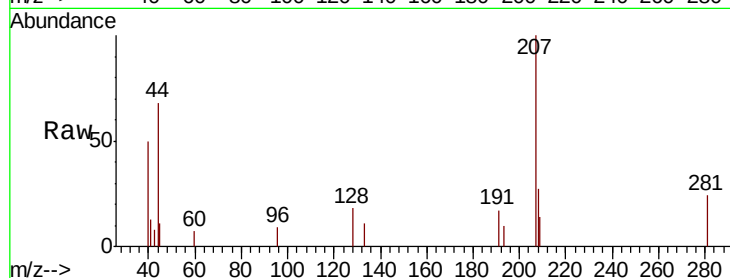
Acq: 24 Dec 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

SB-61(0-5)-GRAB



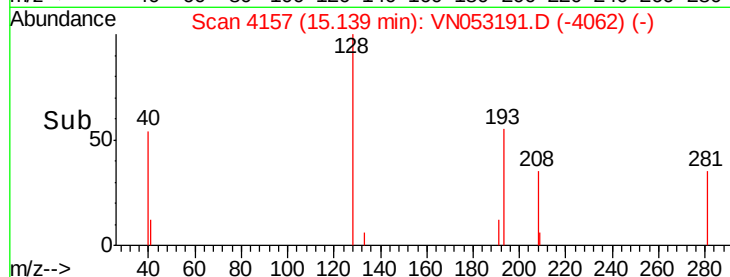
Tot Ion:128 Resp: 722

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

