

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053190.D
 Acq On : 24 Dec 2018 17:26
 Operator : MD\SY
 Sample : J6511-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-60(0-5)-GRAB

Quant Time: Dec 24 22:31:33 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	1335337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2062730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1799484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	652275	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	665872	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
35) Dibromofluoromethane	7.59	113	560990	59.54	ug/l	0.00
Spiked Amount			Recovery	=	119.08%	
50) Toluene-d8	10.09	98	2515462	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
62) 4-Bromofluorobenzene	12.40	95	779787	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	

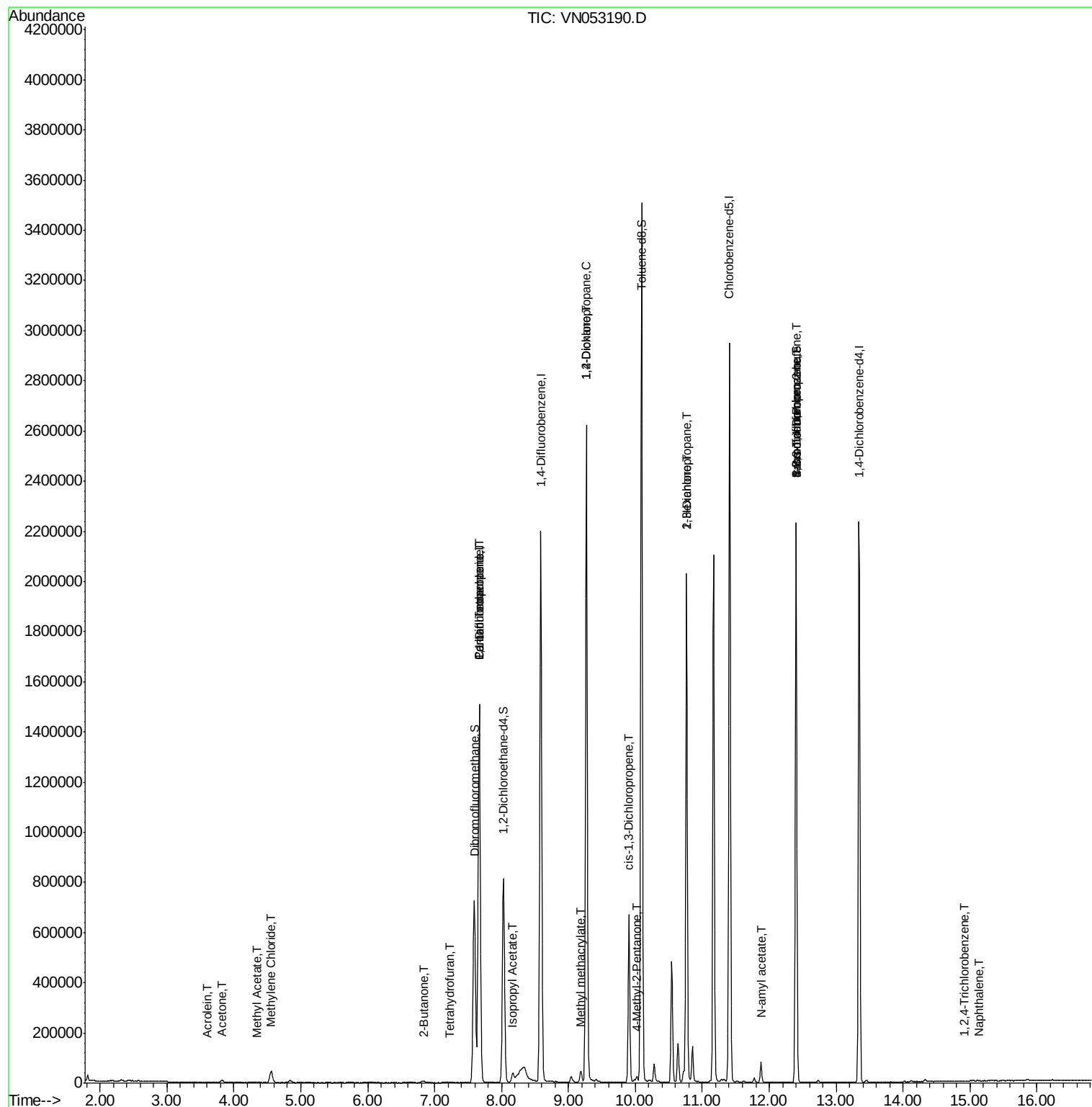
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	156	0.208	ug/l #	65
16) Acetone	3.82	43	17470	6.575	ug/l	92
18) Methyl Acetate	4.34	43	5844	1.467	ug/l	92
20) Methylene Chloride	4.56	84	34288	2.366	ug/l	95
25) 2-Butanone	6.84	43	2063	0.463	ug/l	100
29) Tetrahydrofuran	7.22	42	1271	0.382	ug/l #	71
31) Cyclohexane	7.67	56	21418	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	87388	4.414	ug/l #	48
38) Carbon Tetrachloride	7.67	117	113237	6.240	ug/l #	15
43) Isopropyl Acetate	8.17	43	52510	1.441	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	3447	0.225	ug/l #	44
48) Methyl methacrylate	9.18	41	15837	1.477	ug/l #	12
49) 1,4-Dioxane	9.26	88	198	1.459	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	18591	1.737	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	126016	5.497	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	21234	0.972	ug/l #	42
59) 2-Hexanone	10.76	43	292862	40.440	ug/l #	50
71) Bromoform	12.40	173	4521	0.451	ug/l #	1
74) N-amyl acetate	11.88	43	24324	1.717	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	362329	32.998	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	362329	106.356	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	232	0.616	ug/l #	80
95) Naphthalene	15.13	128	869	1.180	ug/l #	69

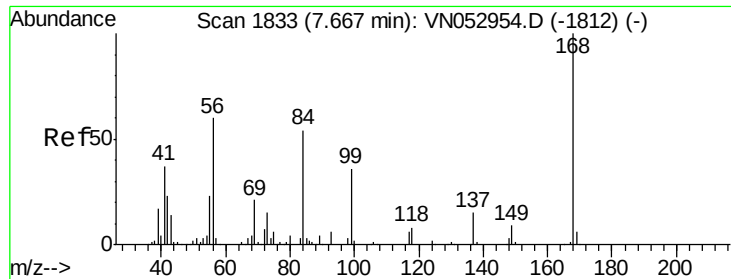
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

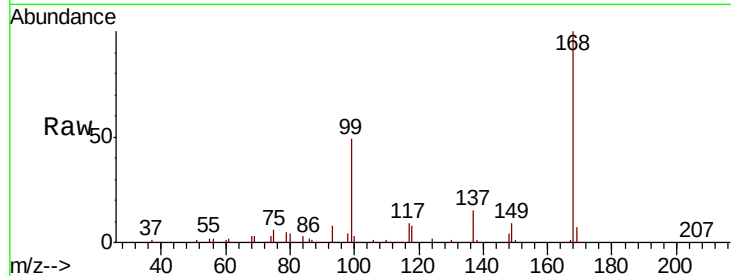
SB-60(0-5)-GRAB

Tot Ion:168 Resp: 1335337

Ion Ratio Lower Upper

168 100

99 49.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN053190.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053190.D (-1740) (-)

7.67

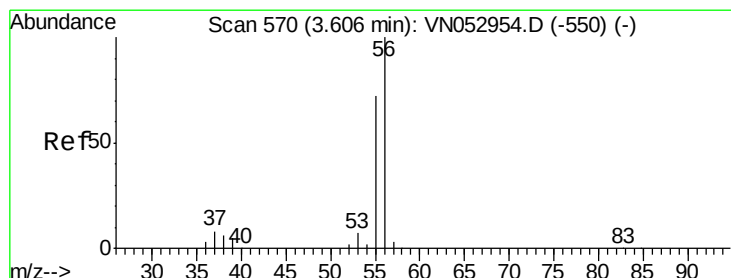
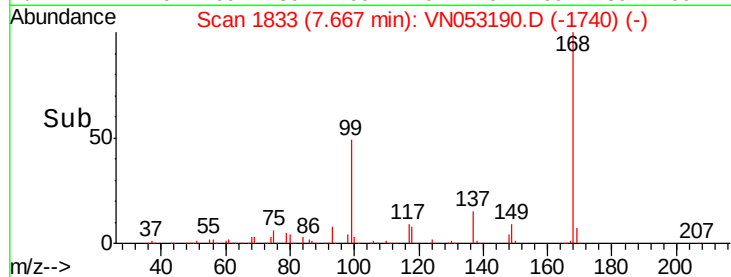
600000

400000

200000

0

Time-->



#13

Acrolein

Concen: 0.208 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053190.D

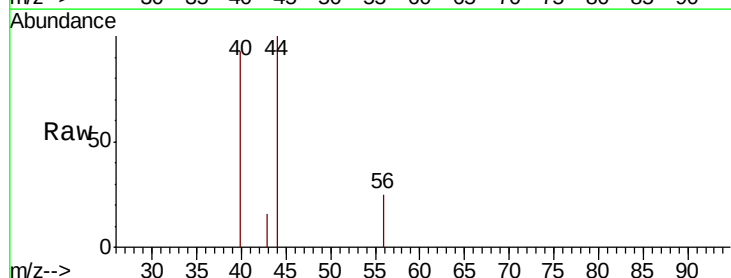
Acq: 24 Dec 2018 17:26

Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 41.7 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN053190.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053190.D (-477) (-)

3.61

250

200

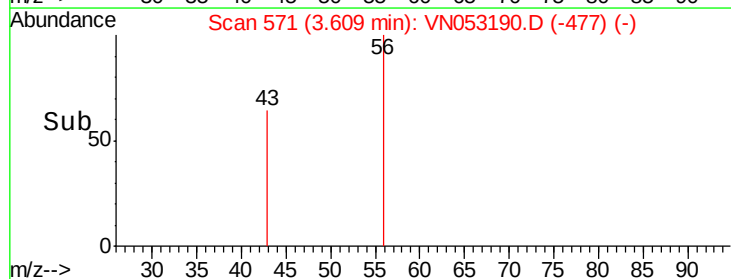
150

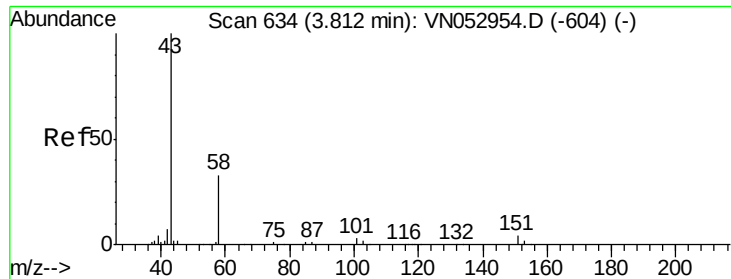
100

50

0

Time-->





#16

Acetone

Concen: 6.575 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

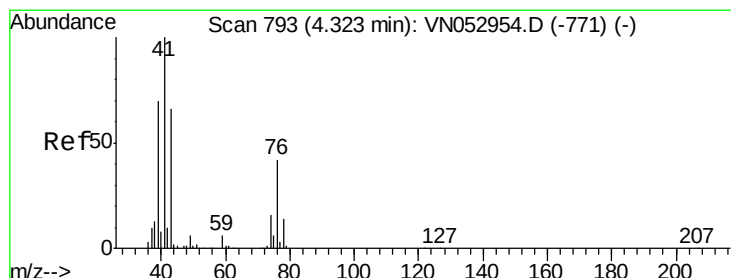
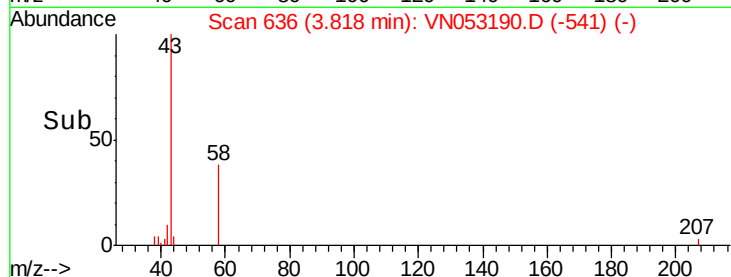
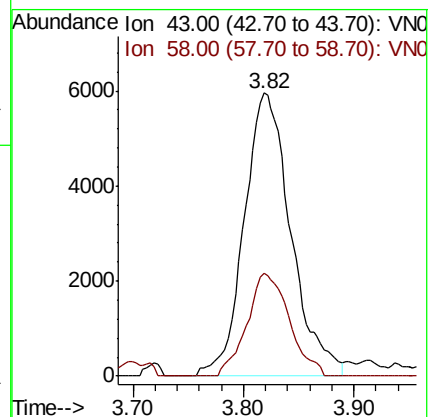
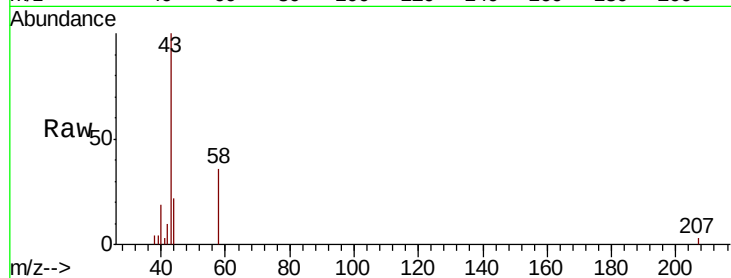
SB-60(0-5)-GRAB

Tot Ion: 43 Resp: 17470

Ion Ratio Lower Upper

43 100

58 36.4 25.4 38.0



#18

Methyl Acetate

Concen: 1.467 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053190.D

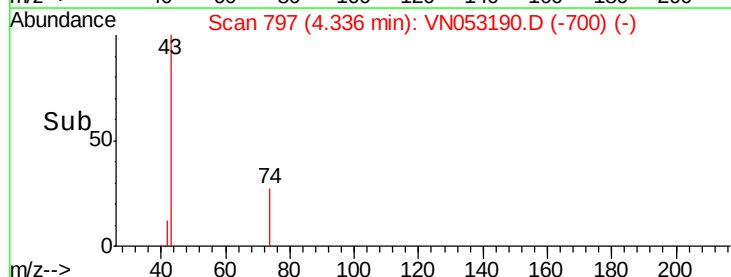
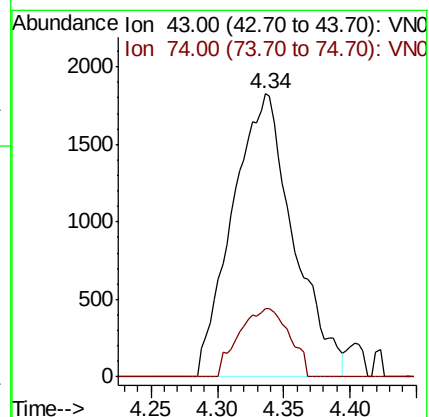
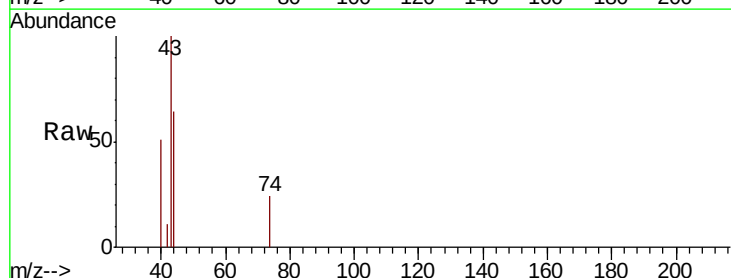
Acq: 24 Dec 2018 17:26

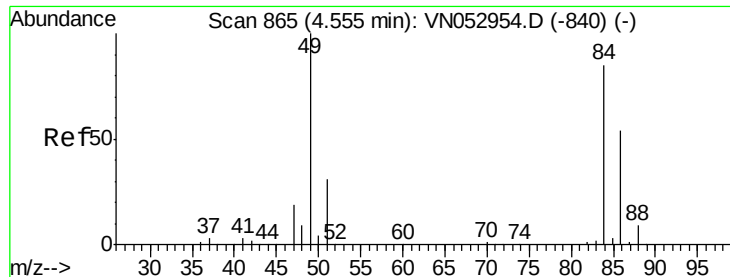
Tgt Ion: 43 Resp: 5844

Ion Ratio Lower Upper

43 100

74 19.9 19.2 28.8

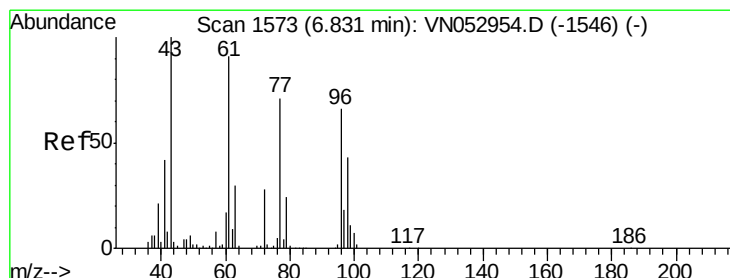
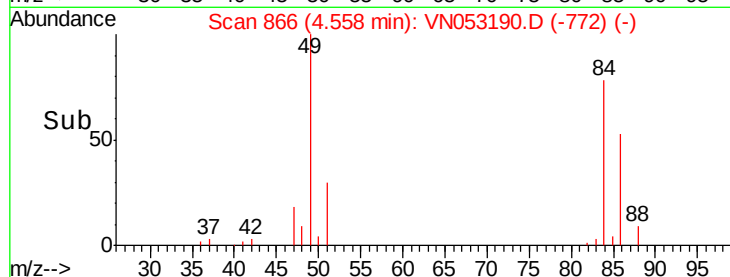
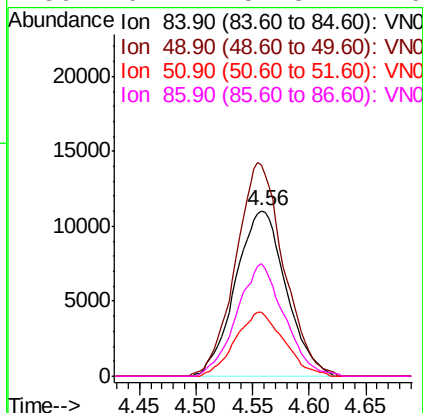
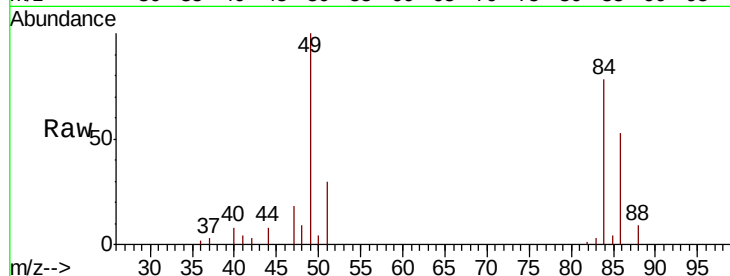




#20
Methvlene Chloride
Concen: 2.366 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

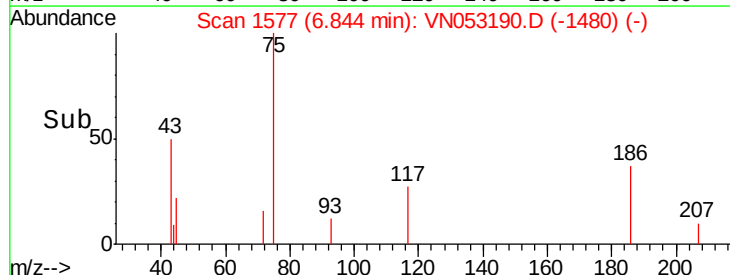
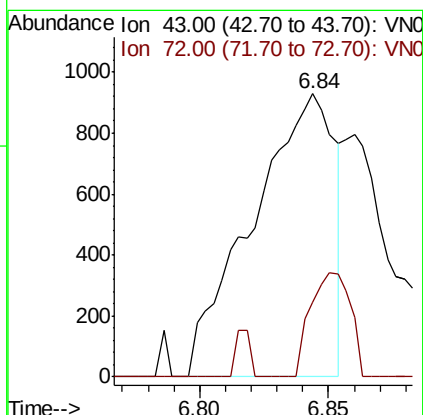
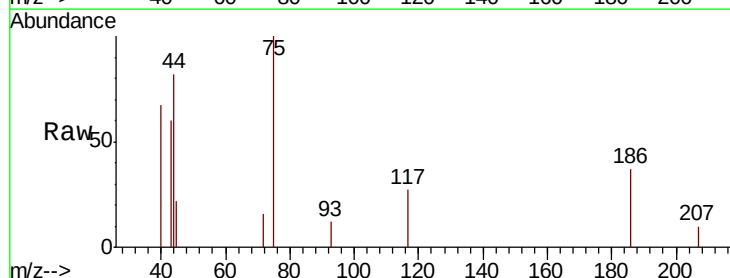
Instrument :
MSVOA_N
ClientSampleId :
SB-60(0-5)-GRAB

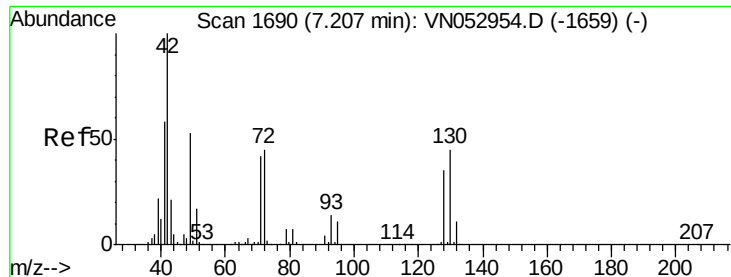
Tot Ion: 84 Resp: 34288
Ion Ratio Lower Upper
84 100
49 127.7 96.8 145.2
51 38.6 29.9 44.9
86 67.7 51.8 77.6



#25
2-Butanone
Concen: 0.463 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

Tgt Ion: 43 Resp: 2063
Ion Ratio Lower Upper
43 100
72 26.4 21.0 31.6

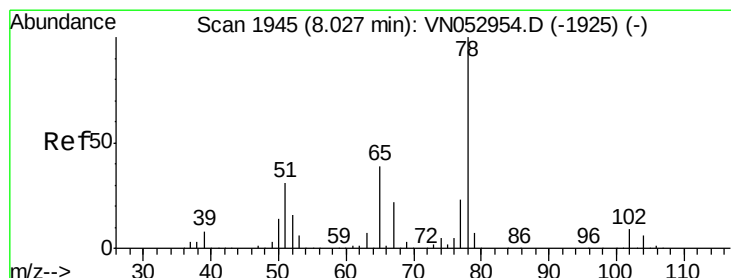
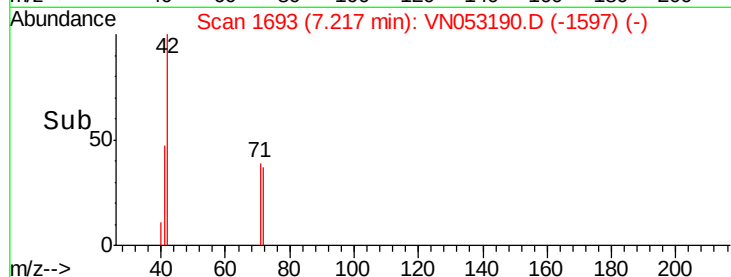
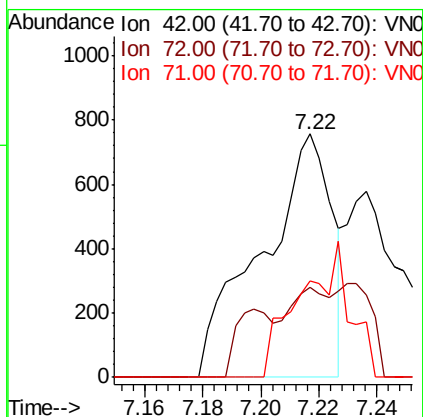
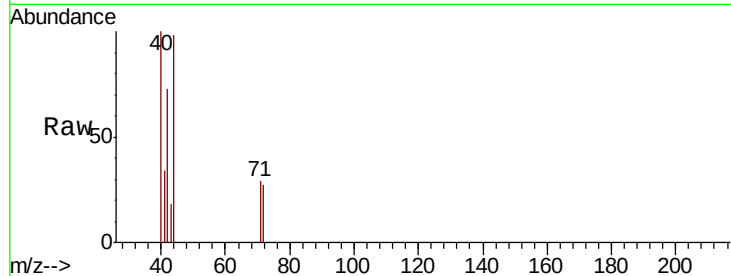




#29
Tetrahydrofuran
Concen: 0.382 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

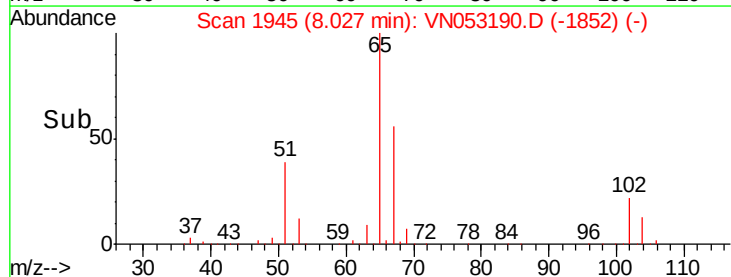
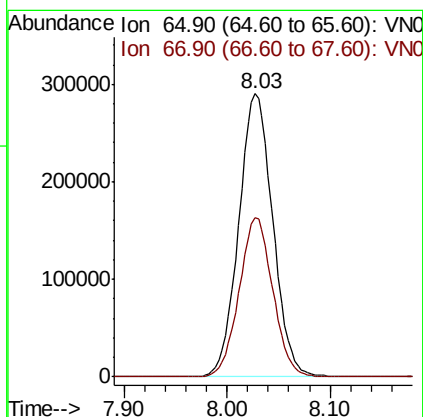
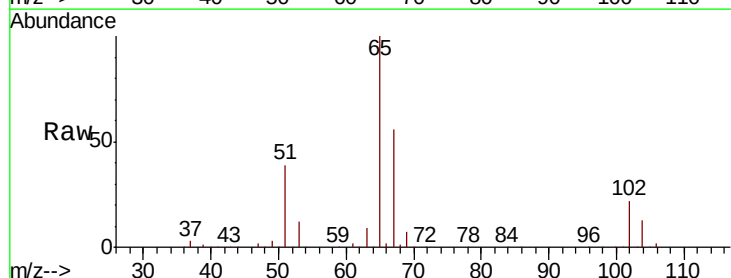
Instrument :
MSVOA_N
ClientSampled :
SB-60(0-5)-GRAB

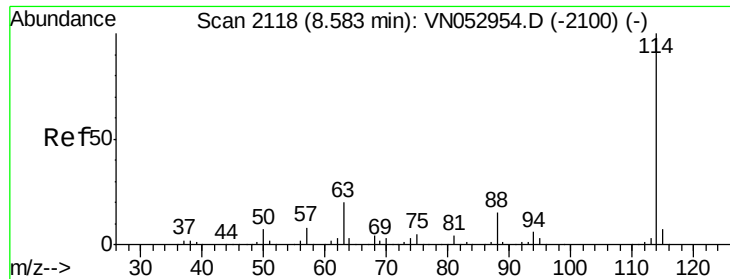
Tot Ion: 42 Resp: 1271
Ion Ratio Lower Upper
42 100
72 8.7 34.7 52.1#
71 39.6 32.3 48.5



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

Tgt Ion: 65 Resp: 665872
Ion Ratio Lower Upper
65 100
67 55.7 0.0 110.4

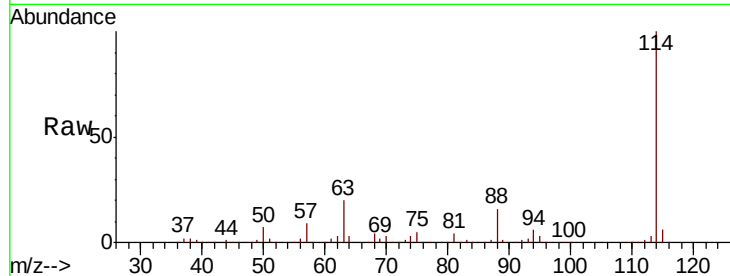




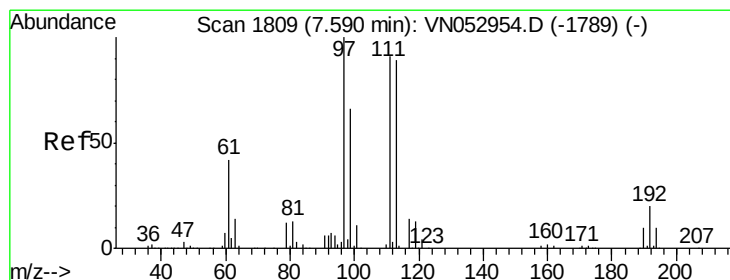
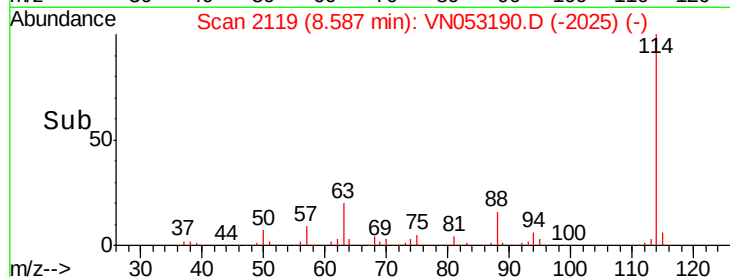
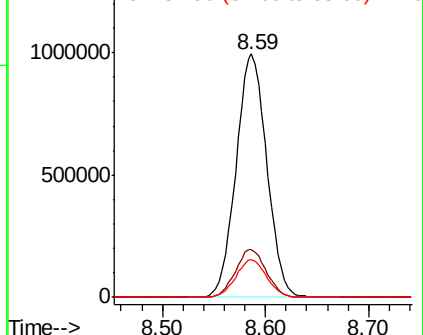
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-60(0-5)-GRAB

Tot Ion:114 Resp: 2062730
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.6 0.0 31.0

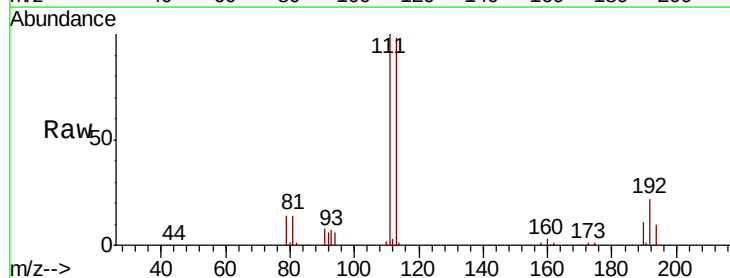


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

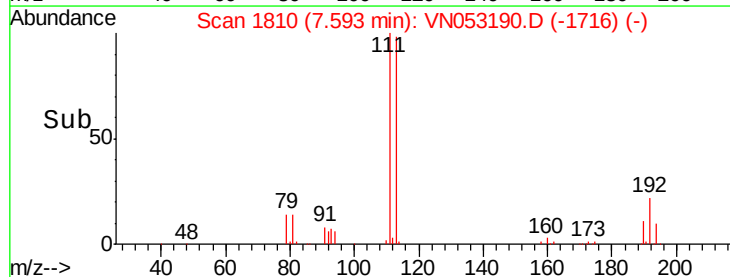
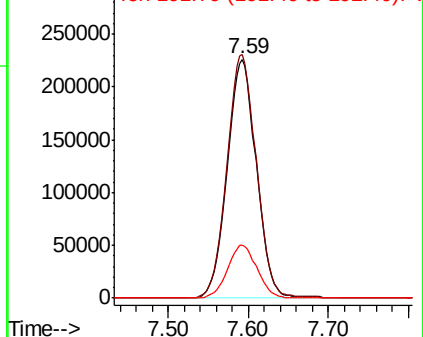


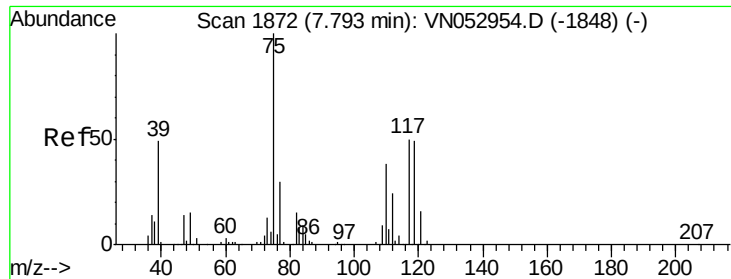
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

Tgt Ion:113 Resp: 560990
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.0 124.4
 192 22.4 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

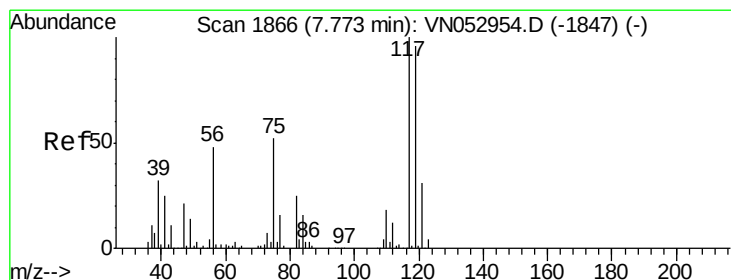
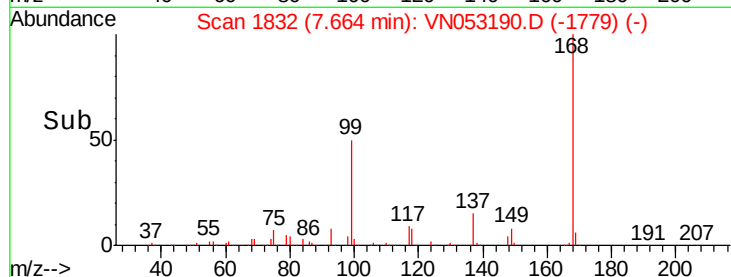
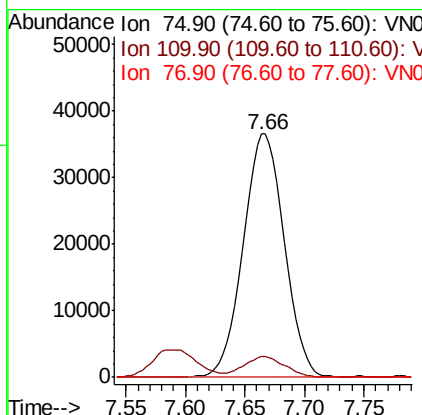
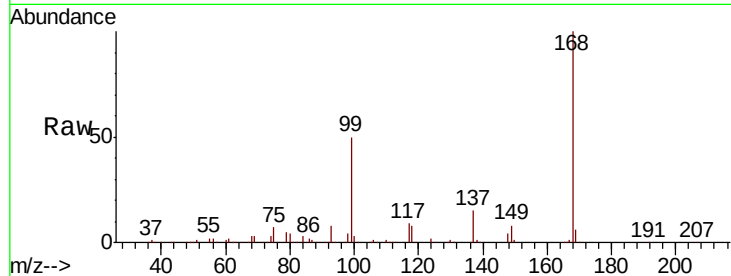




#36
 1,1-Dichloropropene
 Concen: 4.414 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

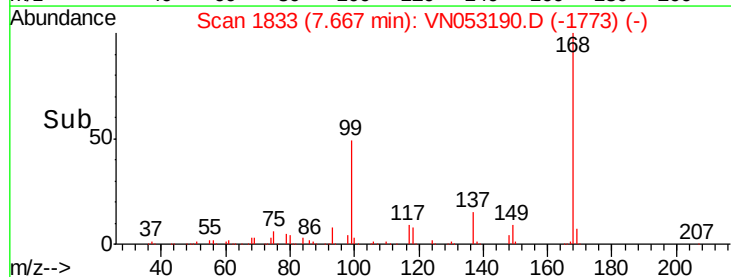
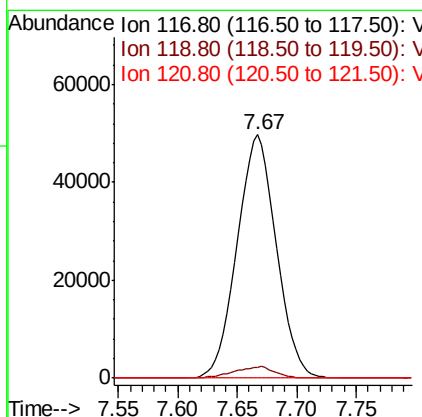
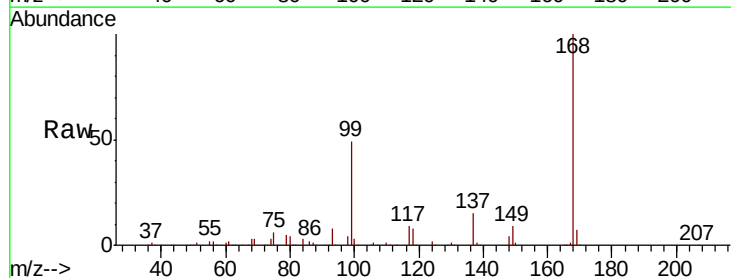
Instrument :
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 SB-60(0-5)-GRAB

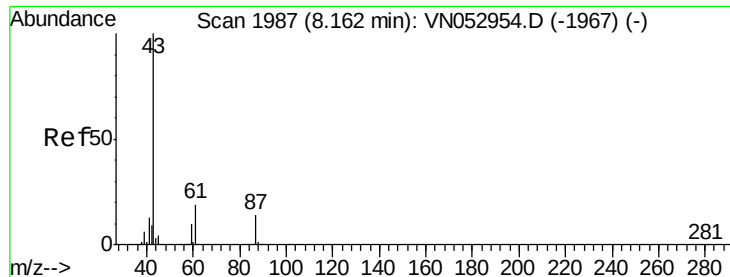
Tot Ion	75	Resp	87388
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.240 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

Tgt Ion	117	Resp	113237
Ion Ratio	100	Lower	Upper
117	100		
119	4.5	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 1.441 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

SB-60(0-5)-GRAB

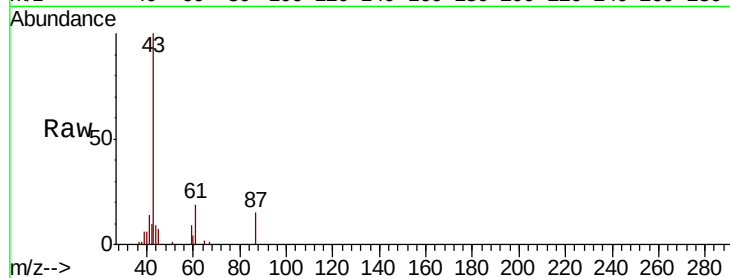
Tot Ion: 43 Resp: 52510

Ion Ratio Lower Upper

43 100

61 17.7 22.9 34.3#

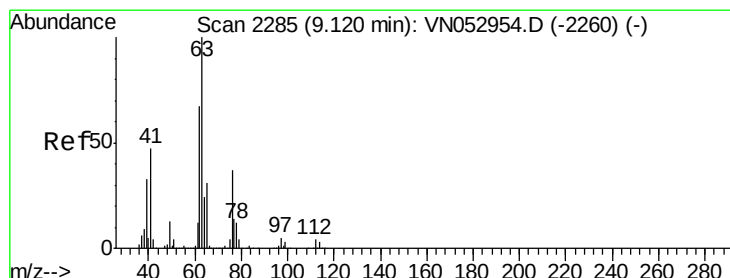
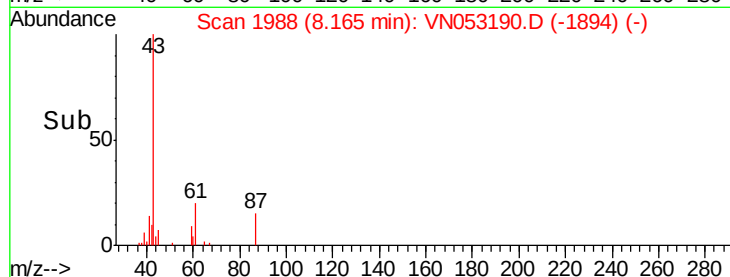
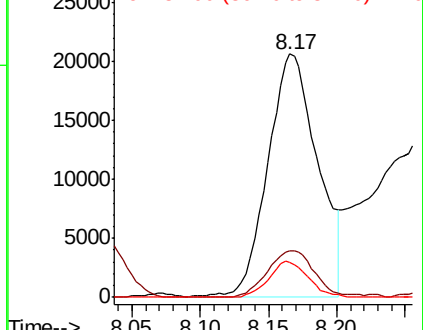
87 11.5 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.225 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053190.D

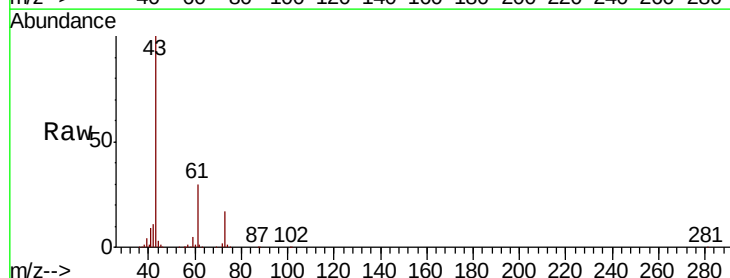
Acq: 24 Dec 2018 17:26

Tgt Ion: 63 Resp: 3447

Ion Ratio Lower Upper

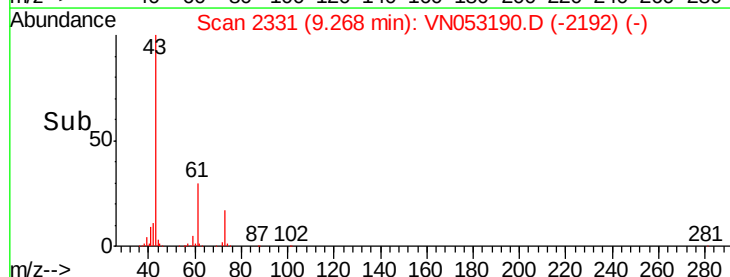
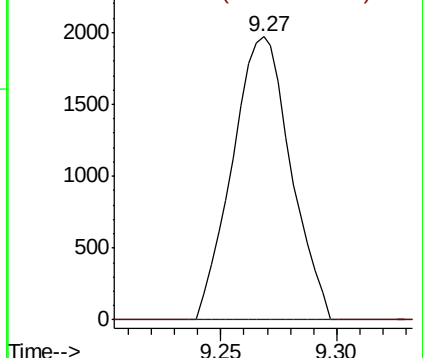
63 100

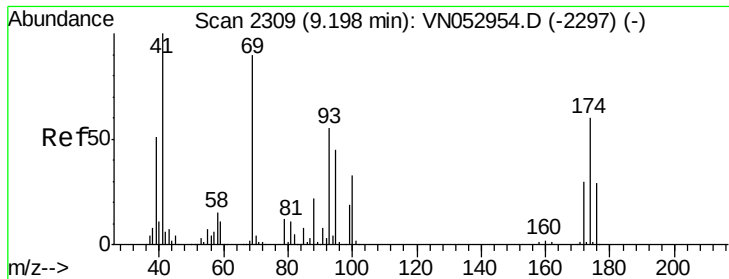
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

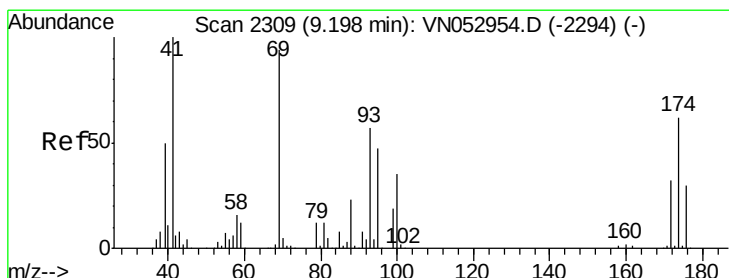
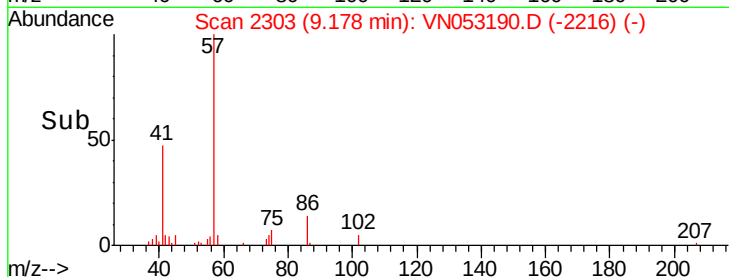
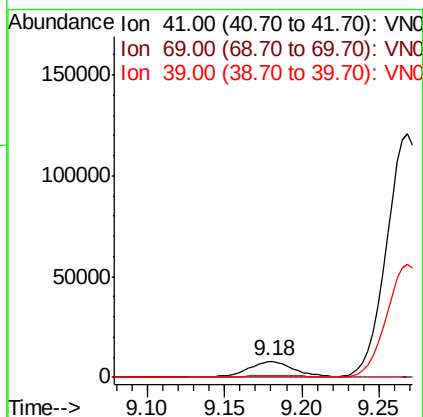
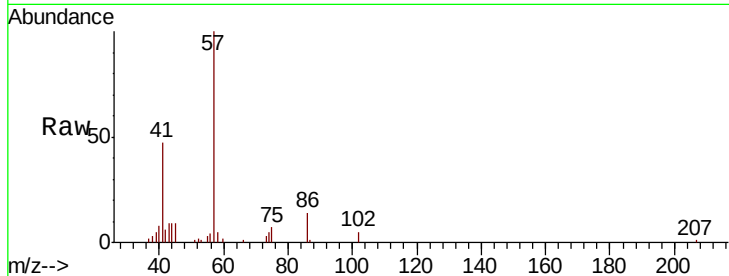




#48
Methvl methacrylate
Concen: 1.477 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

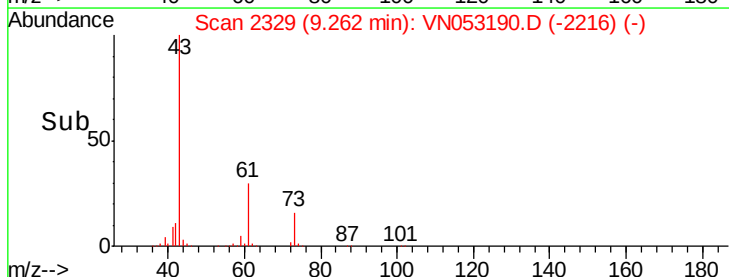
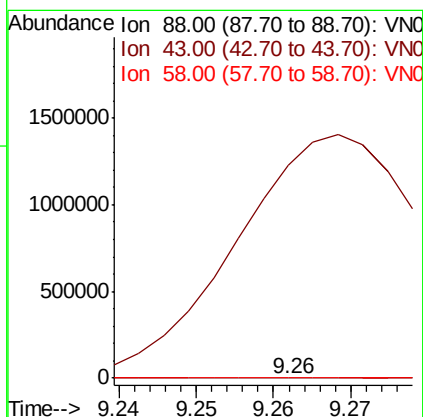
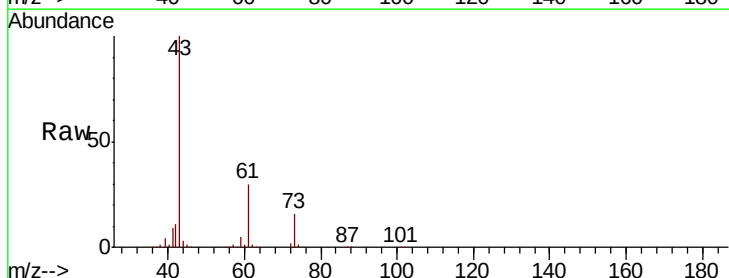
Instrument :
MSVOA_N
ClientSampleId :
SB-60(0-5)-GRAB

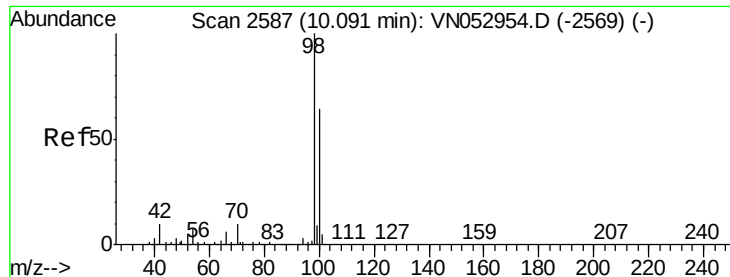
Tot Ion: 41 Resp: 15837
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 1.459 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

Tgt Ion: 88 Resp: 198
Ion Ratio Lower Upper
88 100
43 1291150.5 26.6 40.0#
58 5536.4 58.4 87.6#





#50

Toluene-d8

Concen: 1.459 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

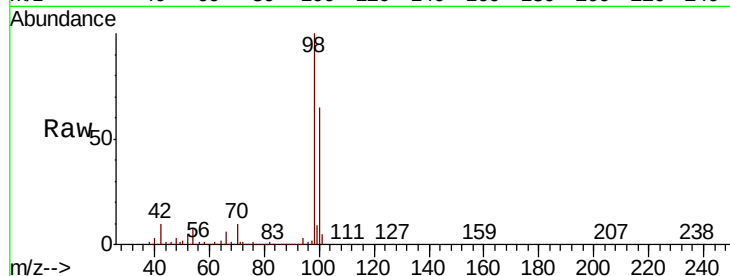
SB-60(0-5)-GRAB

Tot Ion: 98 Resp: 2515462

Ion Ratio Lower Upper

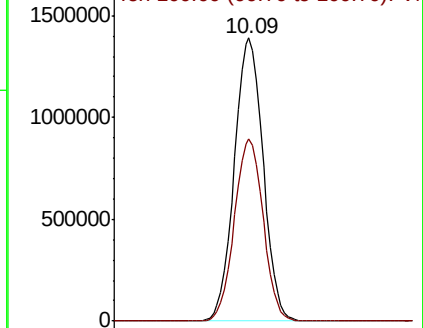
98 100

100 64.4 51.6 77.4

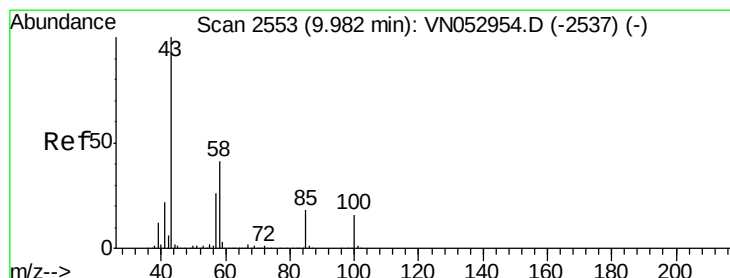
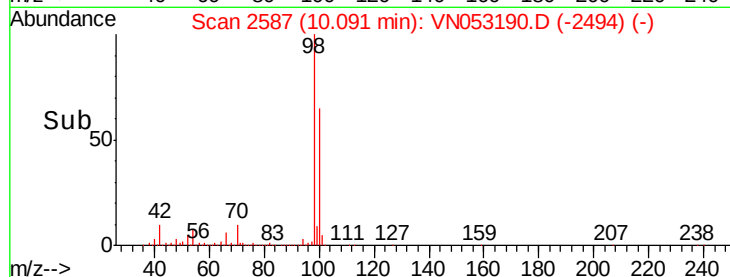


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.737 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN053190.D

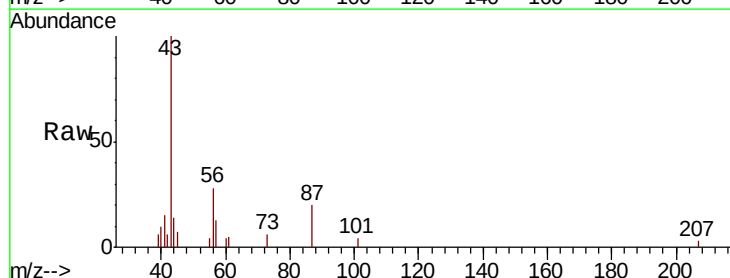
Acq: 24 Dec 2018 17:26

Tgt Ion: 43 Resp: 18591

Ion Ratio Lower Upper

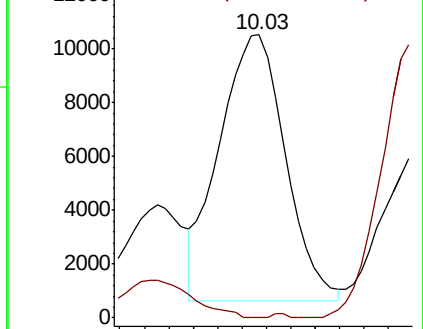
43 100

58 0.0 32.2 48.4#

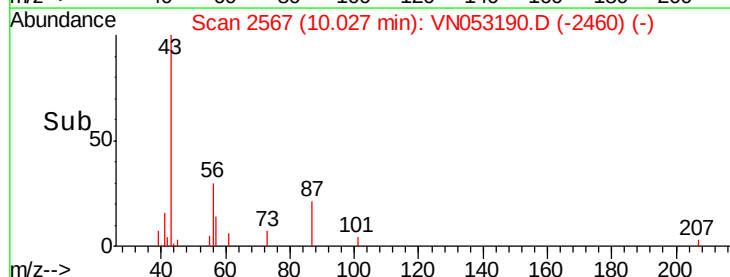


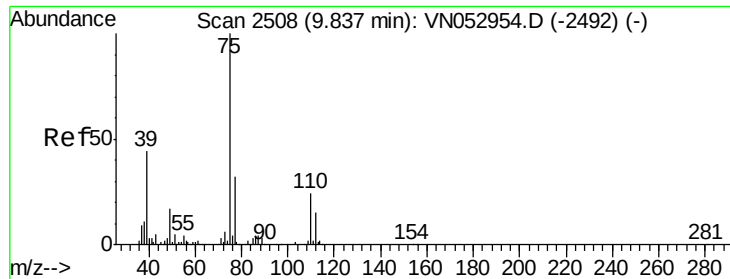
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.497 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

SB-60(0-5)-GRAB

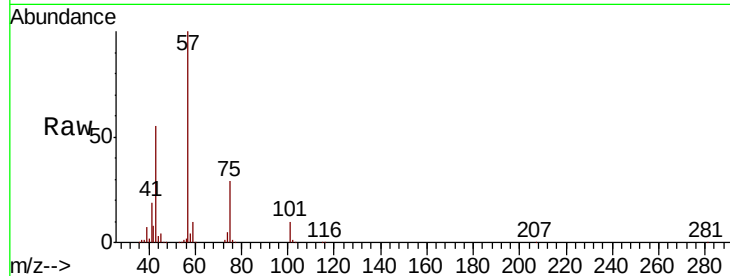
Tot Ion: 75 Resp: 126016

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

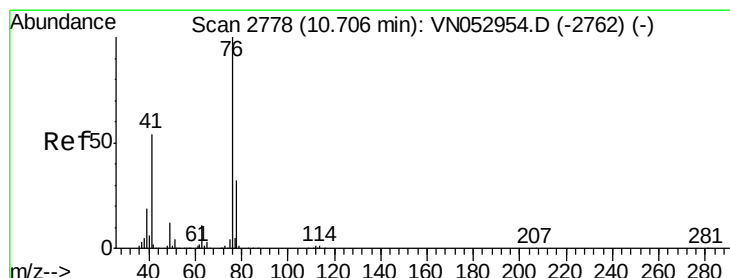
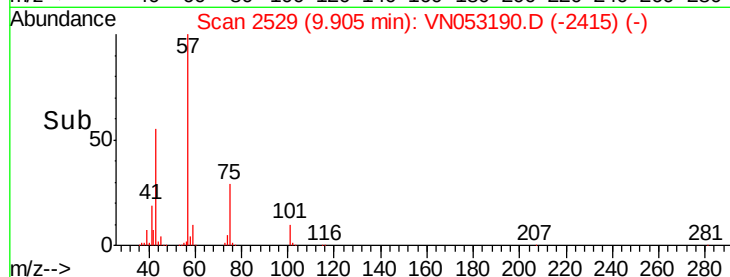
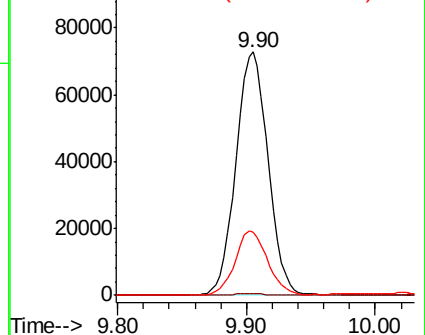
39 25.8 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.972 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053190.D

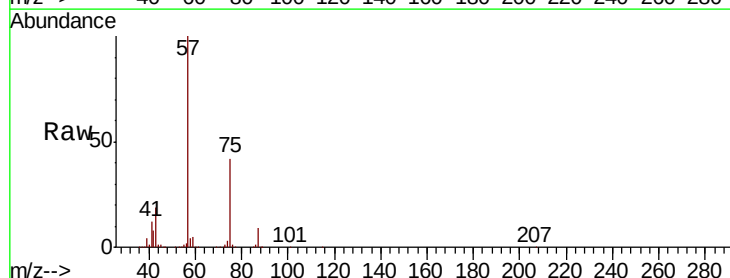
Acq: 24 Dec 2018 17:26

Tgt Ion: 76 Resp: 21234

Ion Ratio Lower Upper

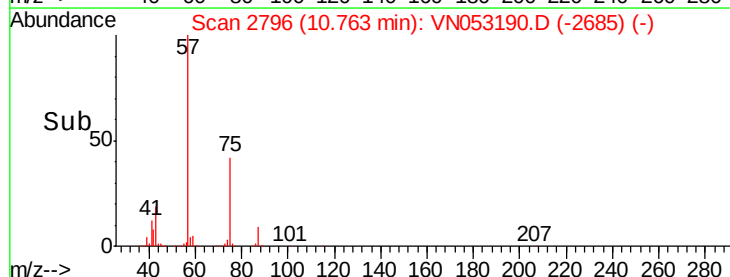
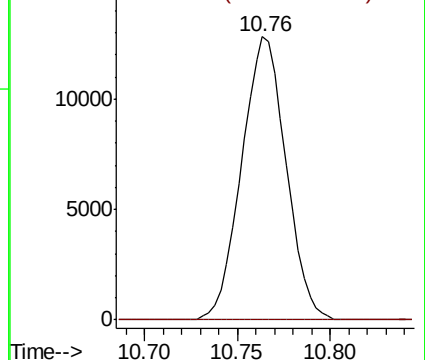
76 100

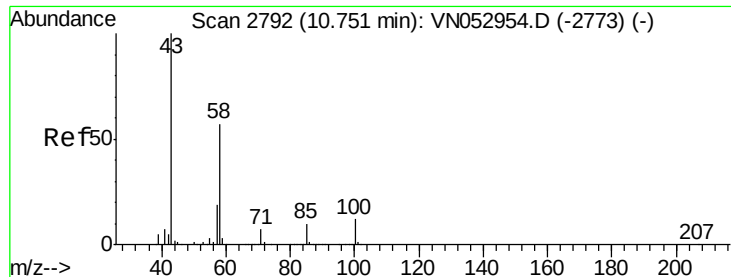
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

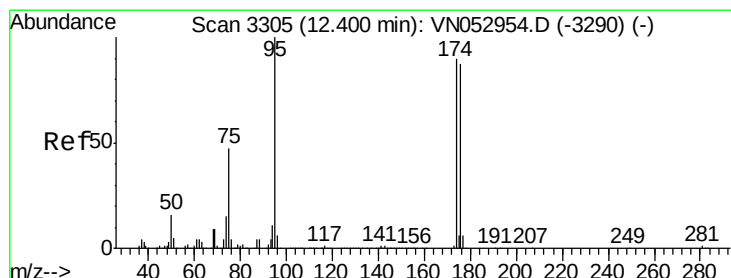
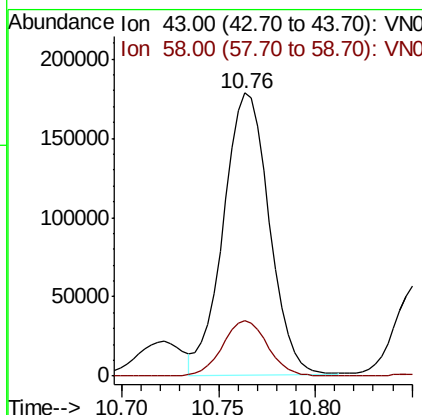
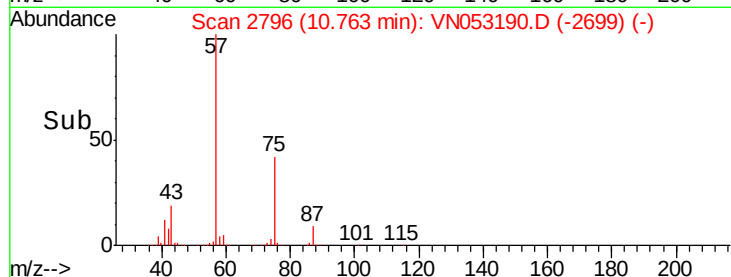
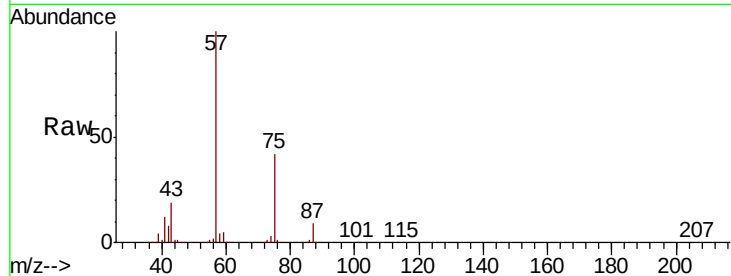




#59
2-Hexanone
Concen: 40.440 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

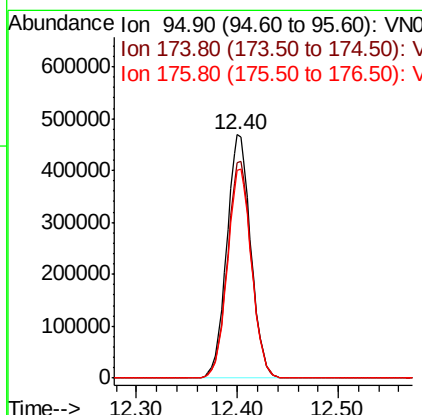
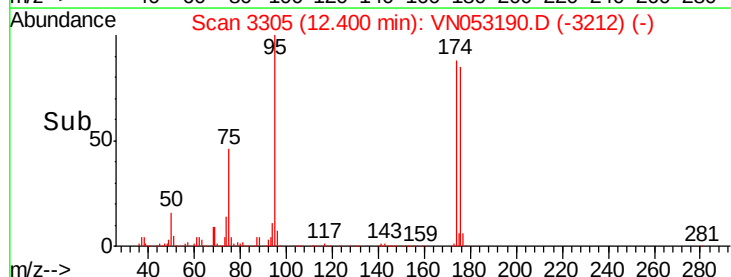
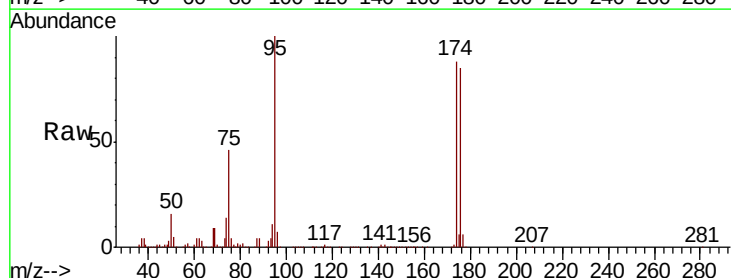
Instrument :
MSVOA_N
ClientSampleId :
SB-60(0-5)-GRAB

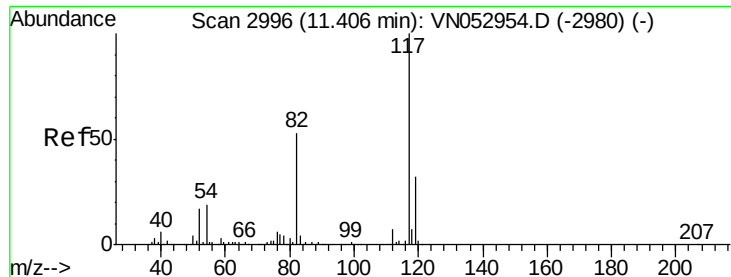
Tot Ion: 43 Resp: 292862
Ion Ratio Lower Upper
43 100
58 19.6 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

Tgt Ion: 95 Resp: 779787
Ion Ratio Lower Upper
95 100
174 88.9 0.0 178.8
176 86.0 0.0 173.8

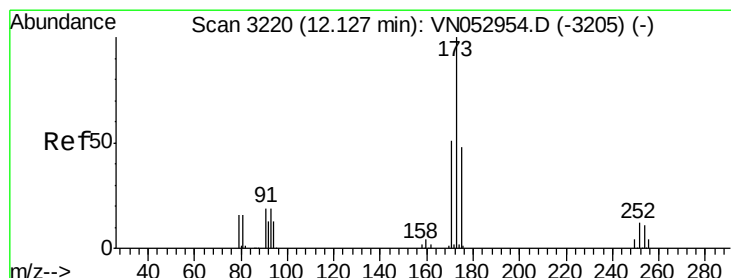
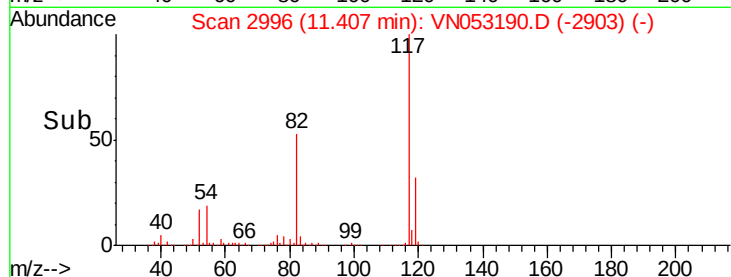
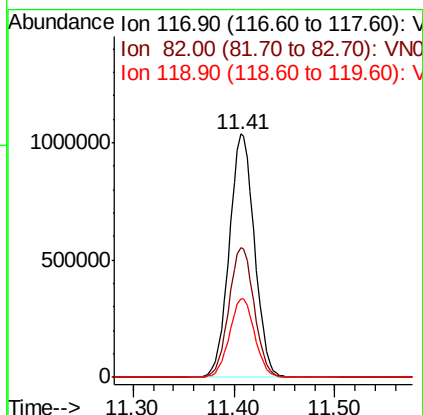
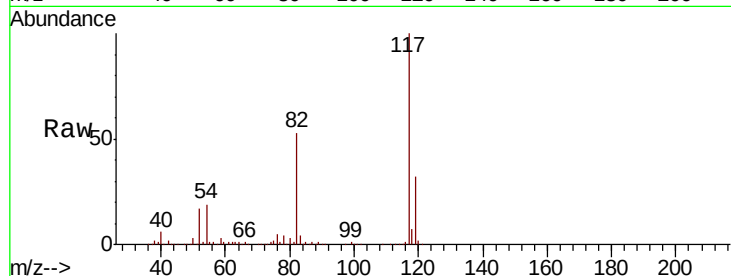




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

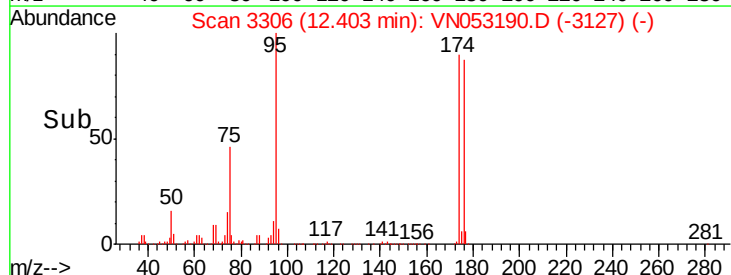
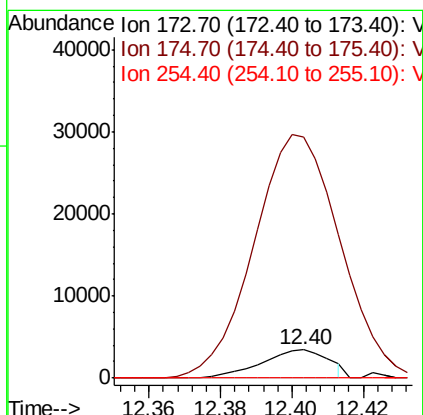
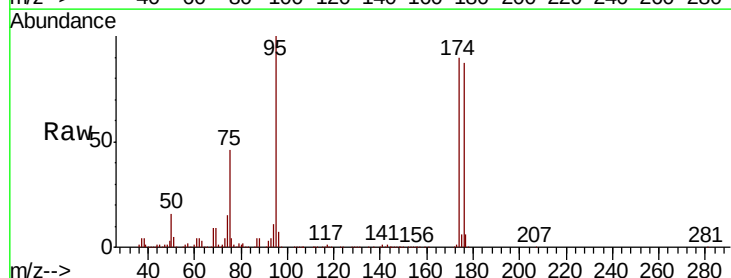
Instrument :
MSVOA_N
ClientSampled :
SB-60(0-5)-GRAB

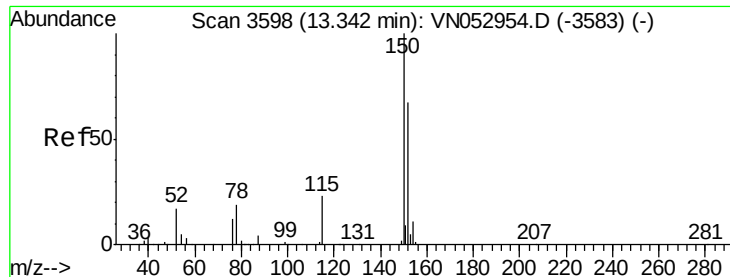
Tot Ion:117 Resp: 1799484
Ion Ratio Lower Upper
117 100
82 53.5 42.8 64.2
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.451 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053190.D
Acq: 24 Dec 2018 17:26

Tgt Ion:173 Resp: 4521
Ion Ratio Lower Upper
173 100
175 963.6 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

SB-60(0-5)-GRAB

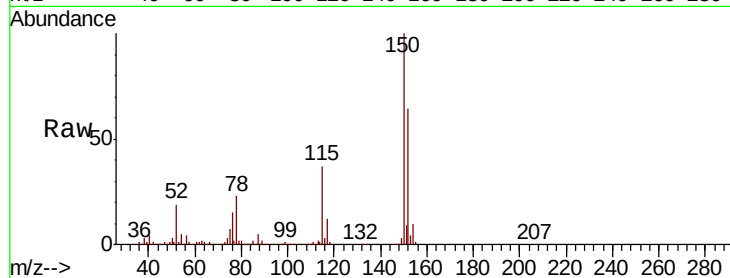
Tot Ion:152 Resp: 652275

Ion Ratio Lower Upper

152 100

115 56.1 28.3 85.0

150 156.9 0.0 347.8

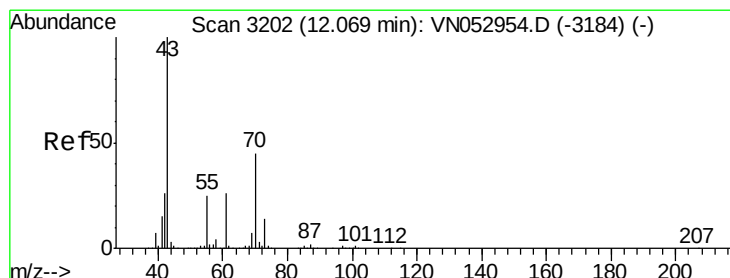
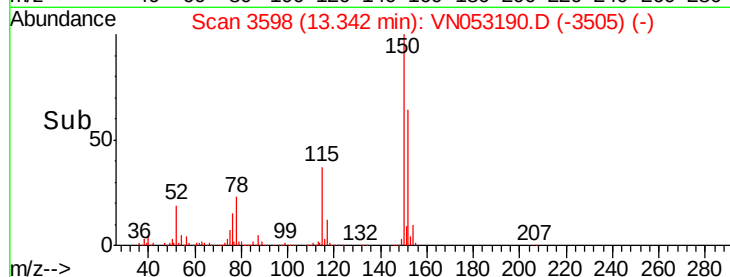
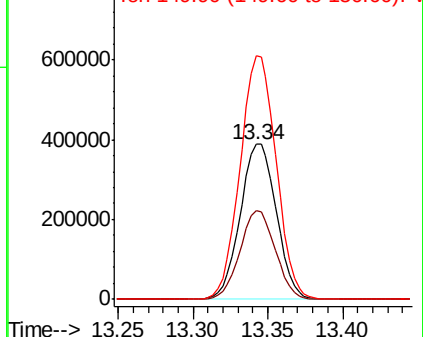


Abundance

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-ethyl acetate

Concen: 1.717 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Tgt Ion: 43 Resp: 24324

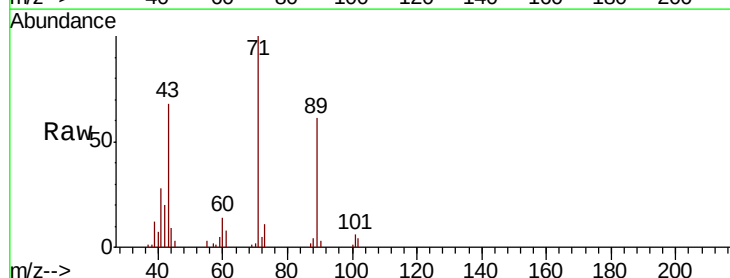
Ion Ratio Lower Upper

43 100

70 1.5 34.2 51.4#

55 4.1 20.3 30.5#

61 11.4 20.0 30.0#



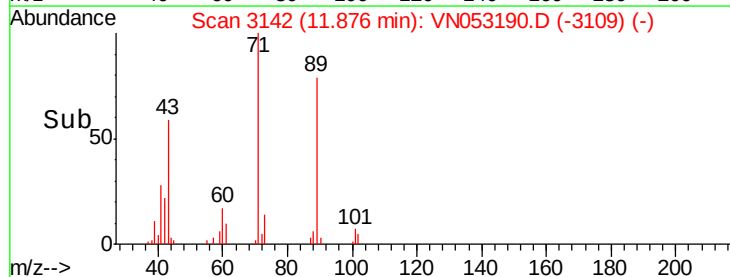
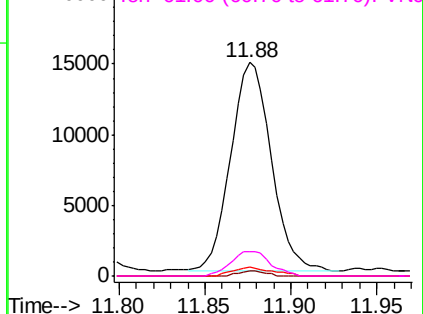
Abundance

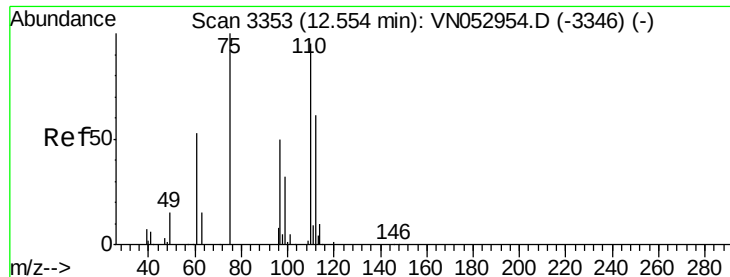
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 32.998 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

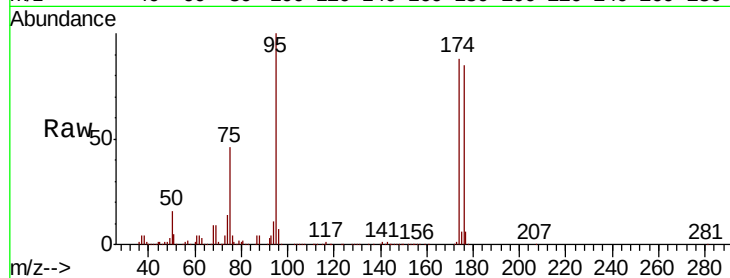
SB-60(0-5)-GRAB

Tot Ion: 75 Resp: 362329

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

150000

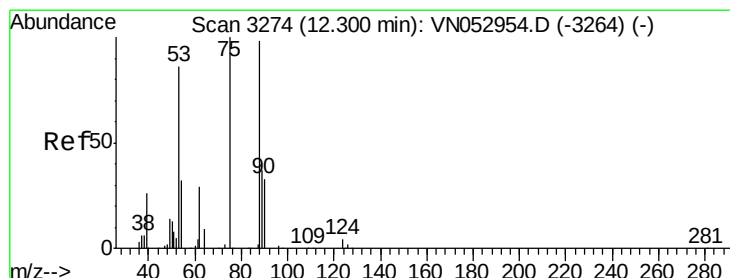
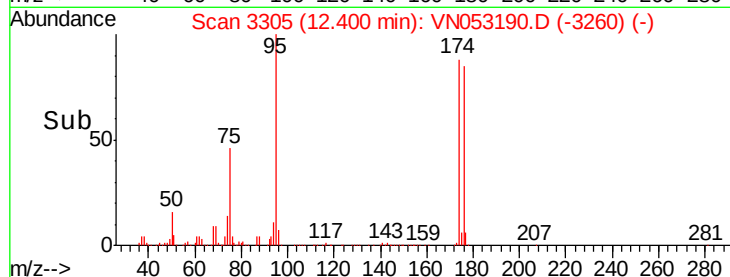
100000

50000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.356 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053190.D

Acq: 24 Dec 2018 17:26

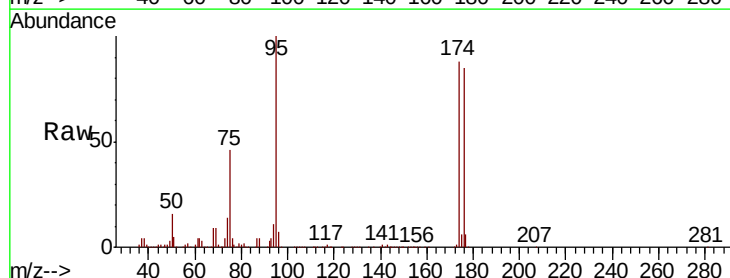
Tgt Ion: 75 Resp: 362329

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

300000

250000

200000

150000

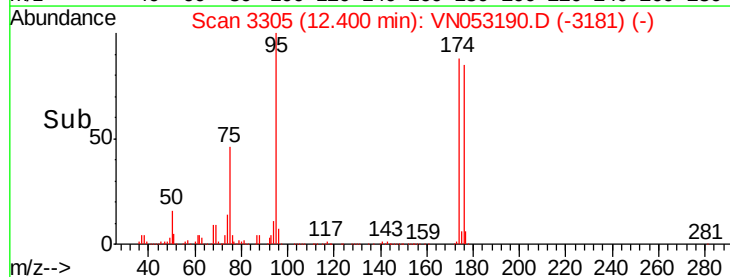
100000

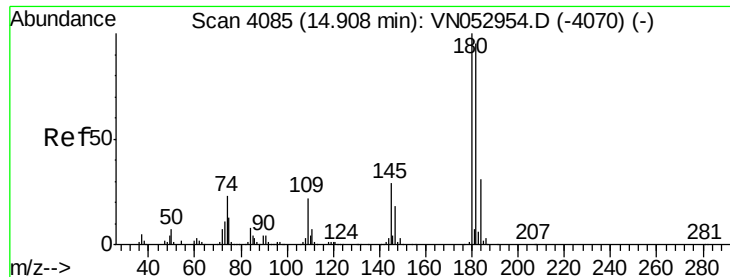
50000

0

12.35 12.40 12.45

Time-->

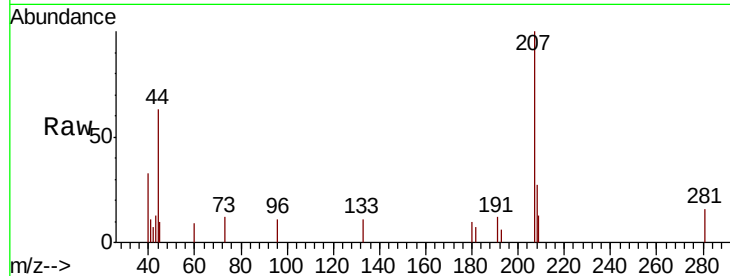




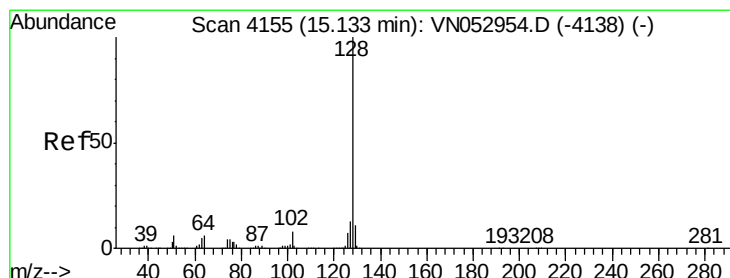
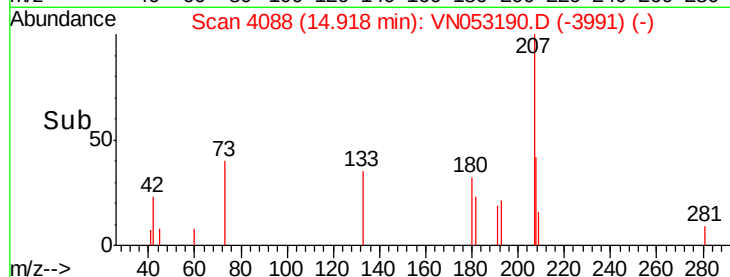
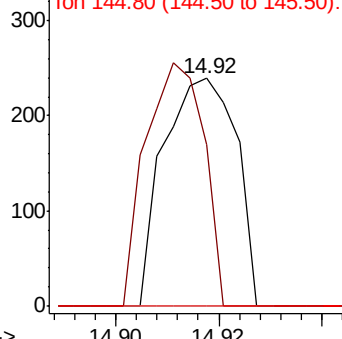
#93
 1,2,4-Trichlorobenzene
 Concen: 0.616 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-60(0-5)-GRAB

Tot Ion:180 Resp: 232
 Ion Ratio Lower Upper
 180 100
 182 85.8 47.8 143.3
 145 0.0 14.2 42.6#

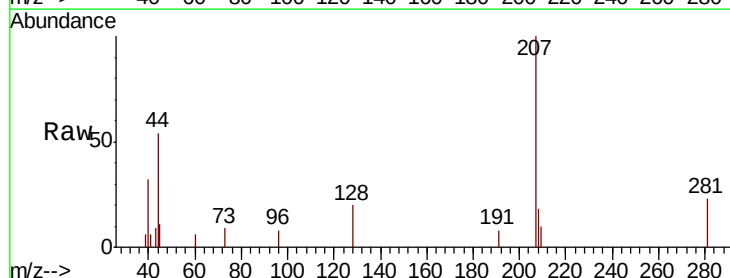


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.180 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053190.D
 Acq: 24 Dec 2018 17:26

Tgt Ion:128 Resp: 869
 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

