

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110618\
 Data File : VN052190.D
 Acq On : 6 Nov 2018 14:21
 Operator : MD\SY
 Sample : J5826-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-S

Quant Time: Nov 06 14:46:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 15:24:48 2018
 Response via : Initial Calibration

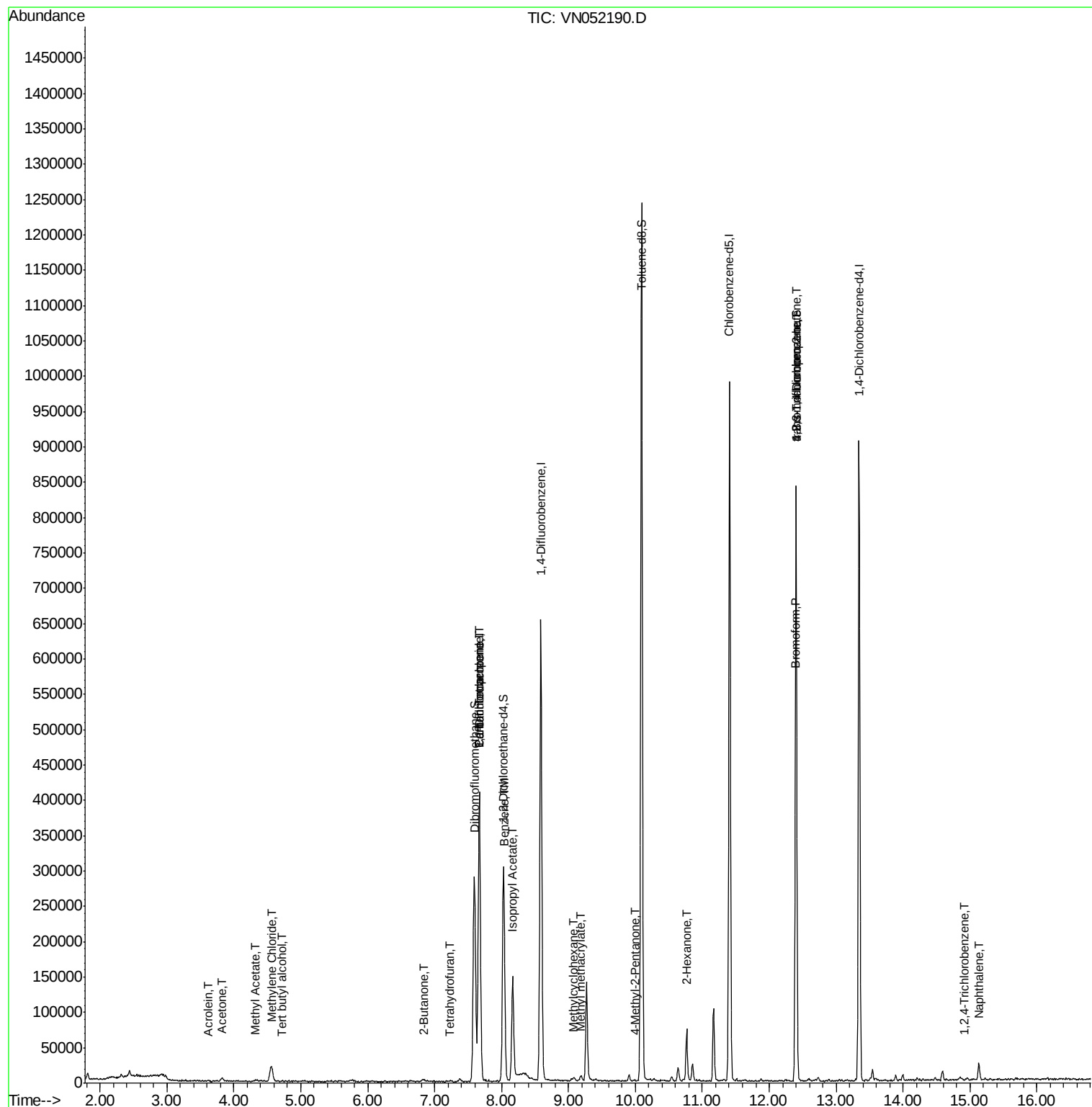
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	313447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	574820	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	227299	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	245115	65.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	131.90%	
35) Dibromofluoromethane	7.59	113	219061	61.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.76%	
50) Toluene-d8	10.09	98	851465	61.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	123.42%	
62) 4-Bromofluorobenzene	12.40	95	285236	62.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.94%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.72	59	34	0.210	ug/l #	76
13) Acrolein	3.61	56	121	33.029	ug/l #	42
16) Acetone	3.82	43	7108	8.441	ug/l	99
18) Methyl Acetate	4.32	43	1449	0.556	ug/l #	57
20) Methylene Chloride	4.56	84	14971	4.279	ug/l	88
25) 2-Butanone	6.84	43	895	0.685	ug/l #	50
29) Tetrahydrofuran	7.21	42	294	0.364	ug/l #	53
31) Cyclohexane	7.67	56	9016	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	25523	5.019	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33606	6.615	ug/l #	16
39) Methylcyclohexane	9.09	83	1667	0.277	ug/l #	84
40) Benzene	8.05	78	5093	0.341	ug/l	92
43) Isopropyl Acetate	8.17	43	180176	31.054	ug/l	98
48) Methyl methacrylate	9.18	41	4692	1.680	ug/l #	12
49) 1,4-Dioxane	9.27	88	69	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.99	43	1048	0.342	ug/l #	38
59) 2-Hexanone	10.77	43	10618	4.976	ug/l #	59
71) Bromoform	12.38	173	373	2.934	ug/l #	29
74) N-amyl acetate	12.06	43	293	Below Cal	#	10
76) 1,2,3-Trichloropropane	12.40	75	147543	49.110	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	147543	147.691	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.91	180	70	2.257	ug/l #	1
95) Naphthalene	15.13	128	18848	2.708	ug/l	97

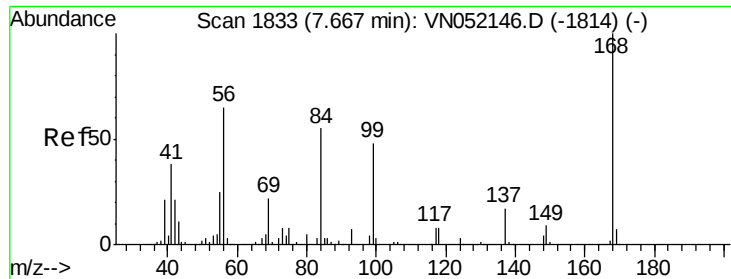
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 05 15:24:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampleId :

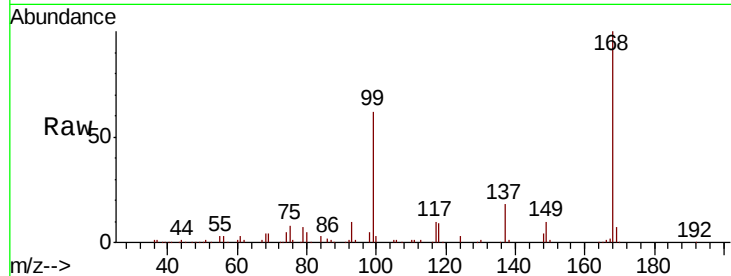
SB-S

Tgt Ion:168 Resp: 313447

Ion Ratio Lower Upper

168 100

99 61.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

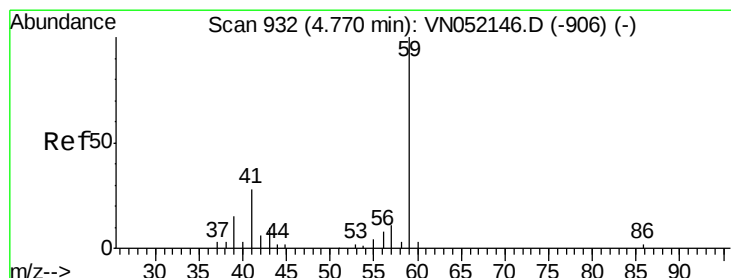
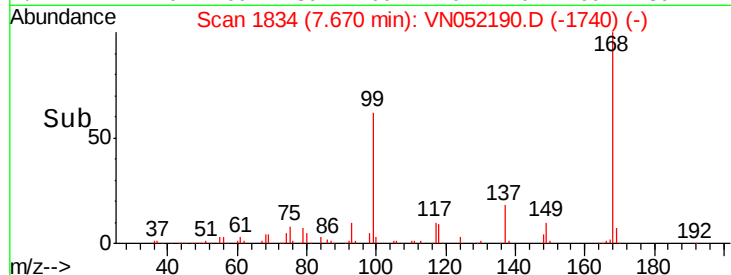
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.210 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.05 min

Lab File: VN052190.D

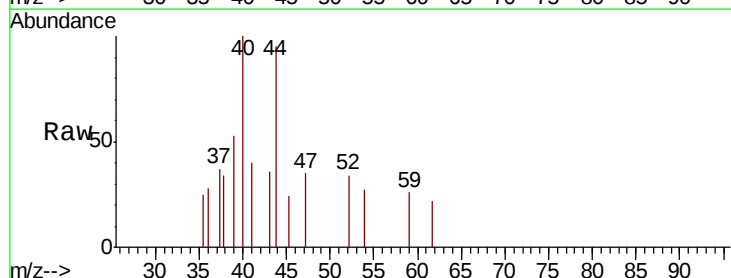
Acq: 6 Nov 2018 14:21

Tgt Ion: 59 Resp: 34

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

200

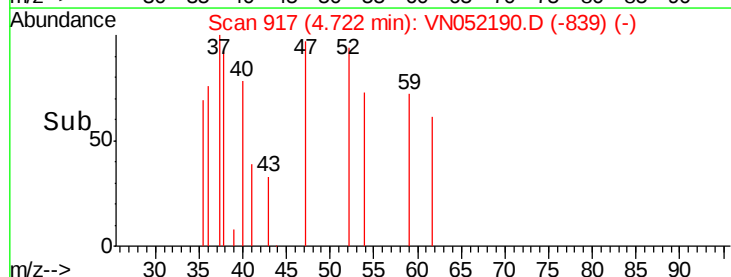
150

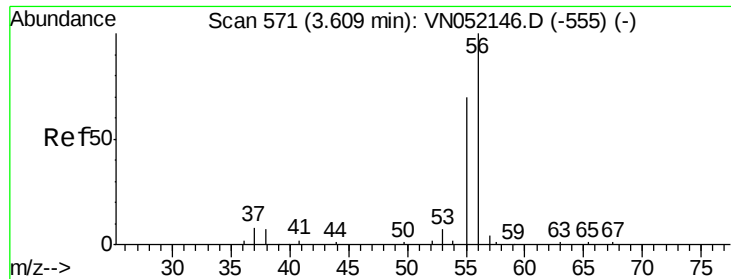
100

50

0

Time-->





#13

Acrolein

Concen: 33.029 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampled :

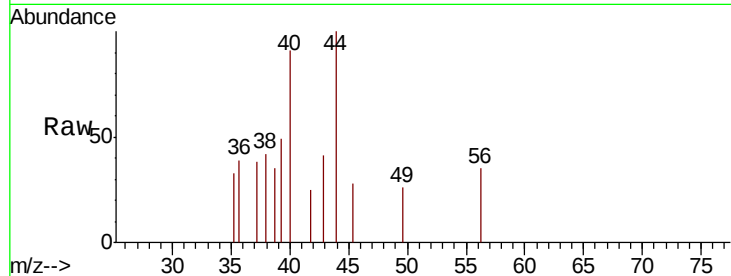
SB-S

Tgt Ion: 56 Resp: 121

Ion Ratio Lower Upper

56 100

55 25.6 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

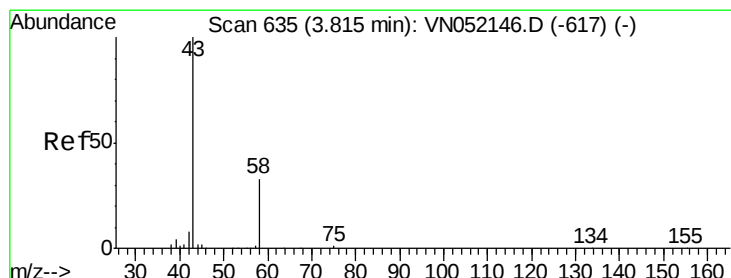
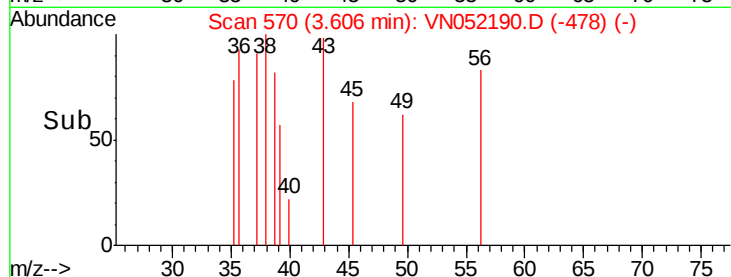
150

100

50

0

Time-->



#16

Acetone

Concen: 8.441 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052190.D

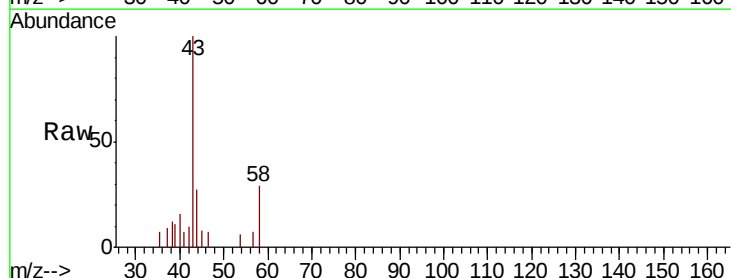
Acq: 6 Nov 2018 14:21

Tgt Ion: 43 Resp: 7108

Ion Ratio Lower Upper

43 100

58 30.7 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

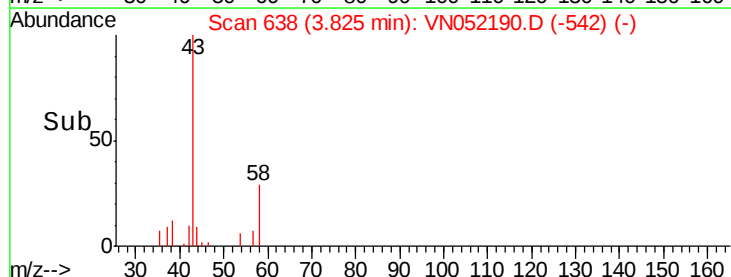
3000

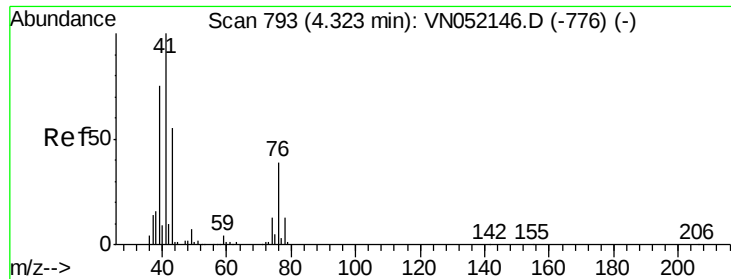
2000

1000

0

Time-->

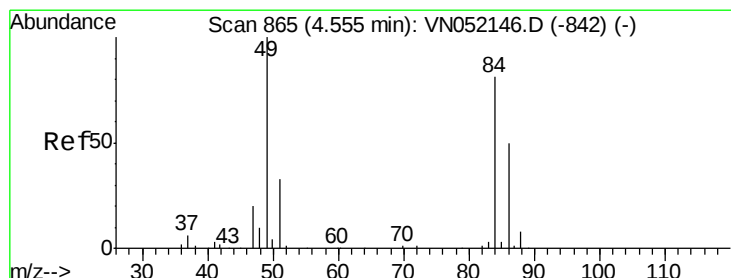
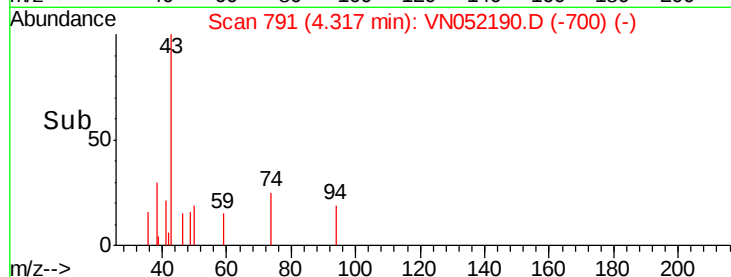
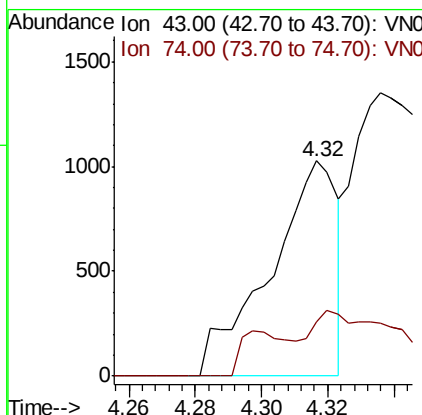
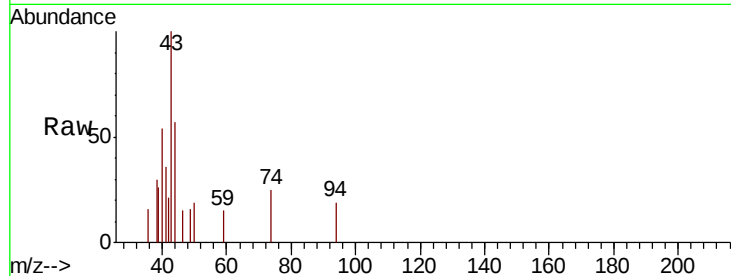




#18
Methyl Acetate
Concen: 0.556 ug/l
RT: 4.32 min Scan# 791
Delta R.T. -0.01 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

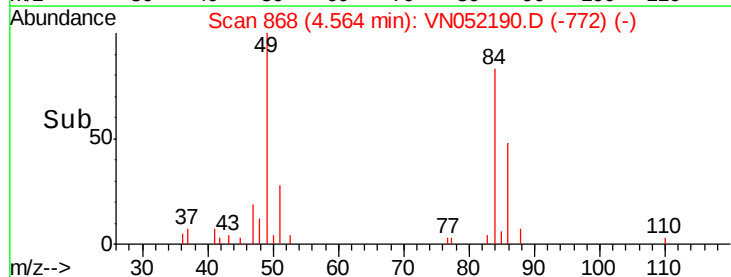
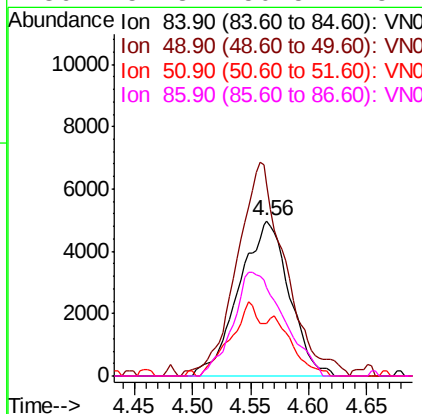
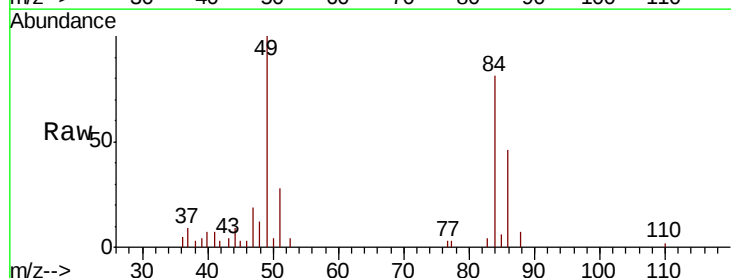
Instrument :
MSVOA_N
ClientSampled :
SB-S

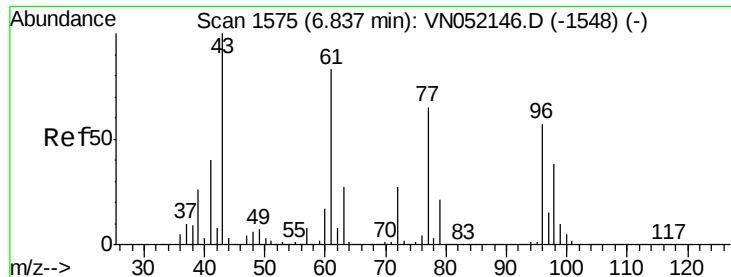
Tgt Ion: 43 Resp: 1449
Ion Ratio Lower Upper
43 100
74 43.0 17.9 26.9#



#20
Methylene Chloride
Concen: 4.279 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Tgt Ion: 84 Resp: 14971
Ion Ratio Lower Upper
84 100
49 120.4 110.6 165.8
51 34.2 33.7 50.5
86 57.3 50.5 75.7





#25

2-Butanone

Concen: 0.685 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampled :

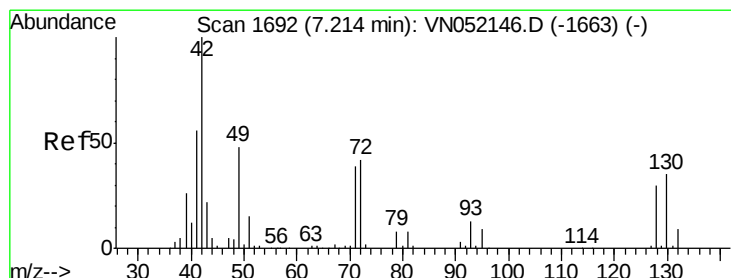
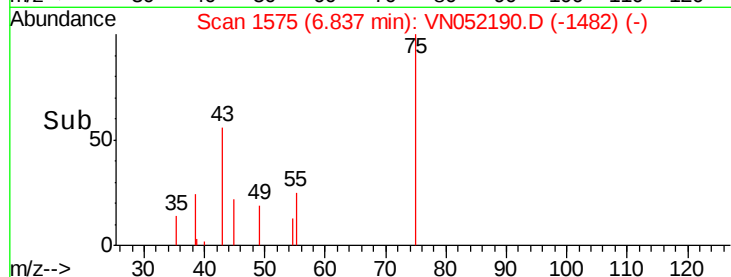
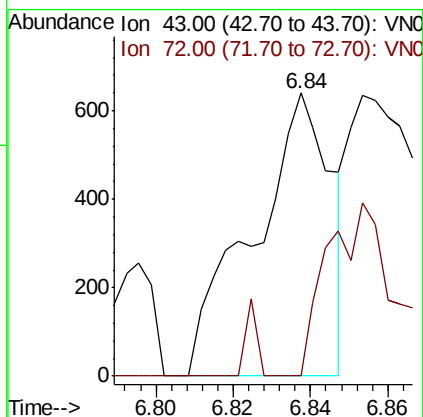
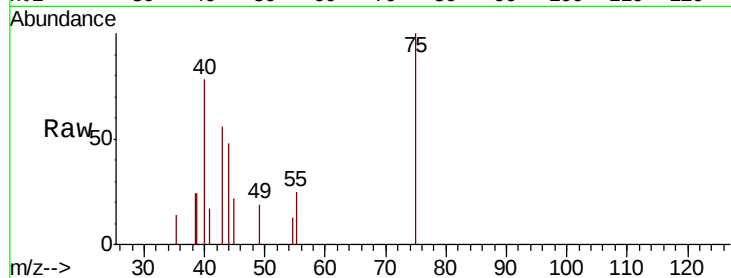
SB-S

Tgt Ion: 43 Resp: 895

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



#29

Tetrahydrofuran

Concen: 0.364 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

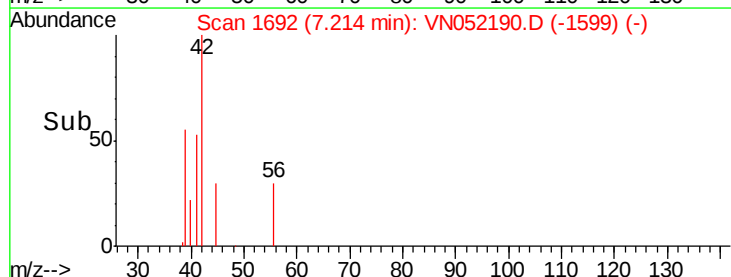
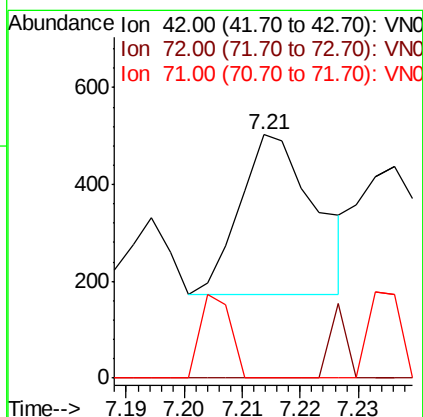
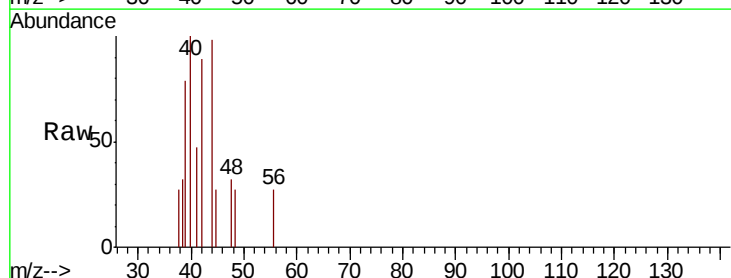
Tgt Ion: 42 Resp: 294

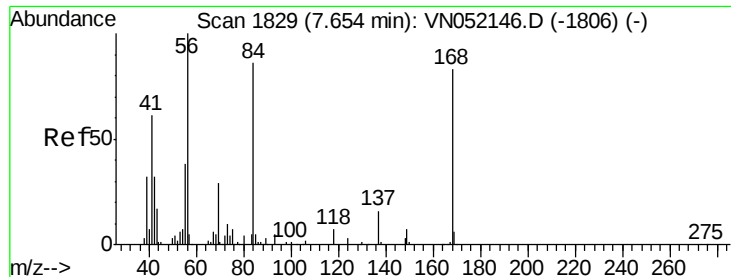
Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

71 21.4 30.6 46.0#

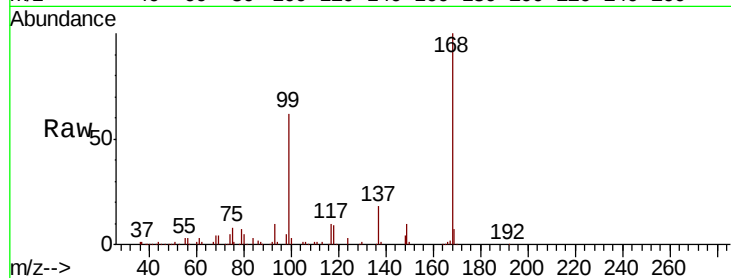




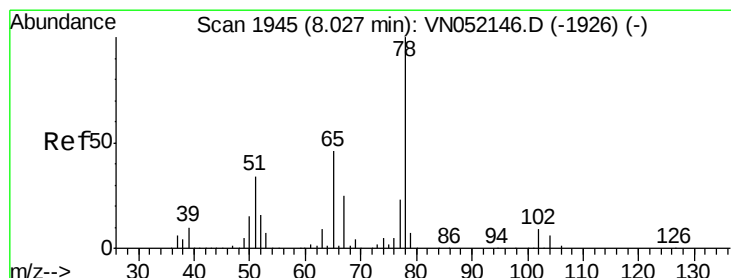
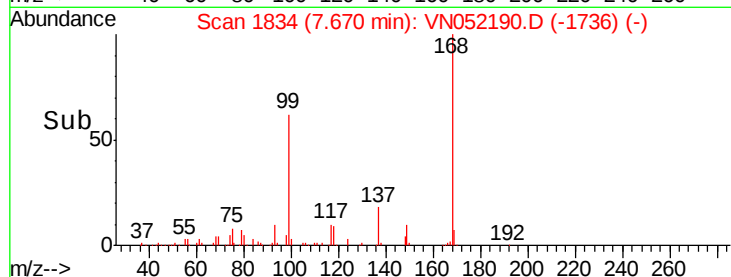
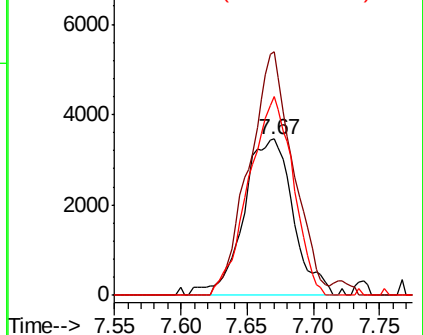
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Instrument :
MSVOA_N
ClientSampled :
SB-S

Tgt Ion: 56 Resp: 9016
Ion Ratio Lower Upper
56 100
69 156.0 25.8 38.6#
84 127.3 63.5 95.3#

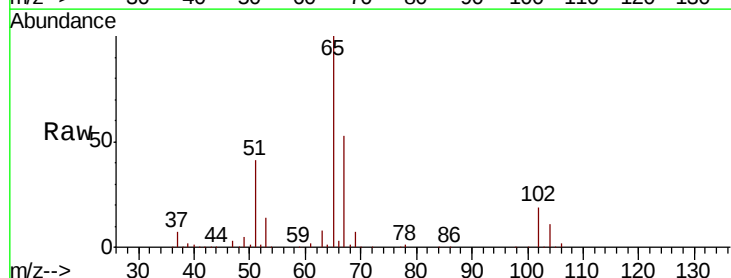


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

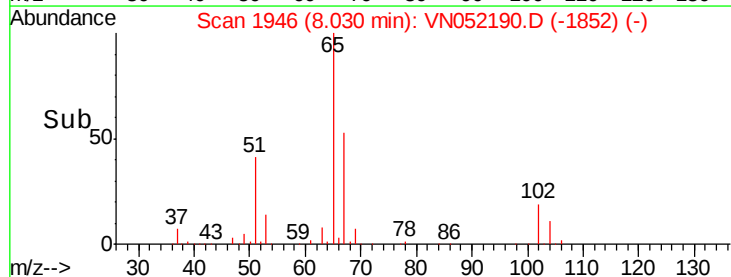
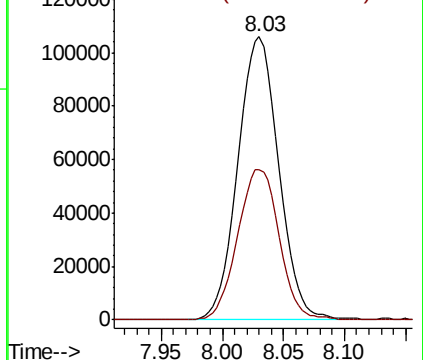


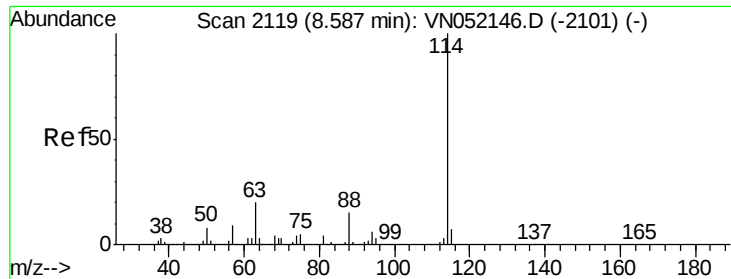
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Tgt Ion: 65 Resp: 245115
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

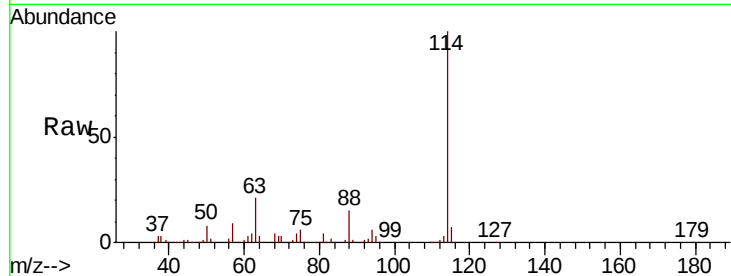




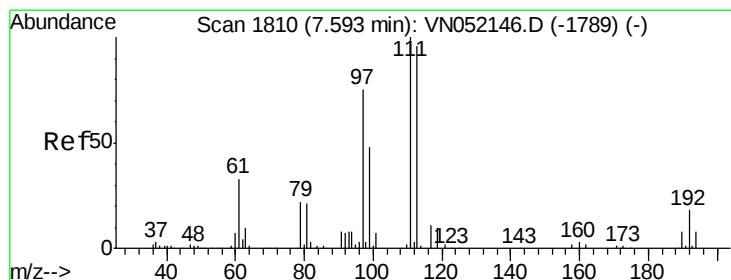
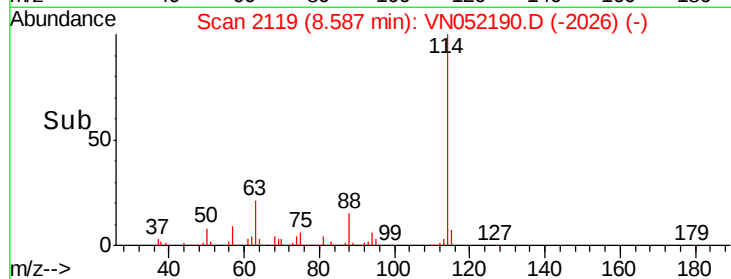
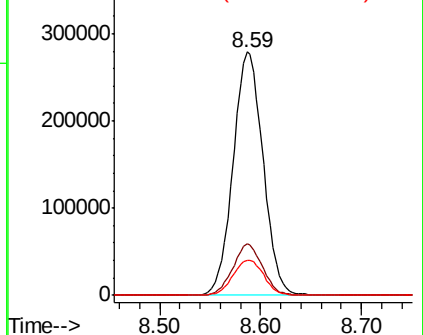
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052190.D
 Acq: 6 Nov 2018 14:21

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-S

Tgt Ion:114 Resp: 574820
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 46.0
 88 14.6 0.0 35.4

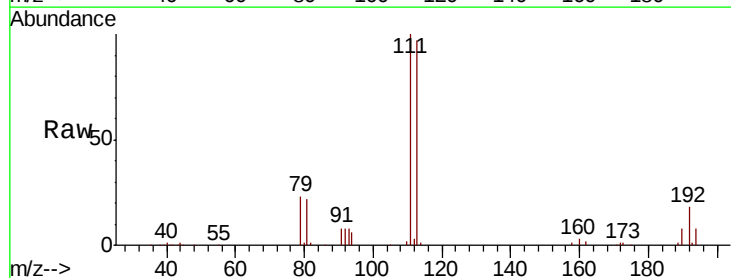


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

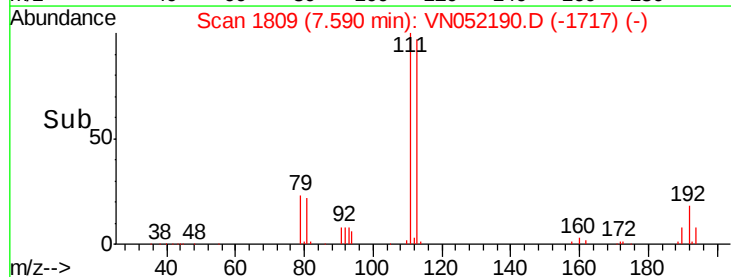
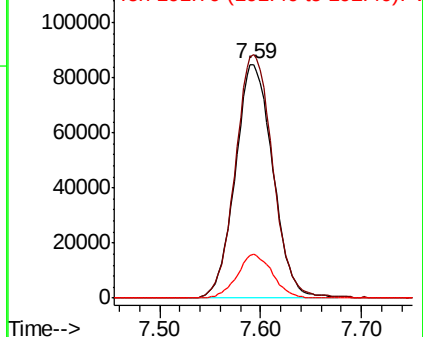


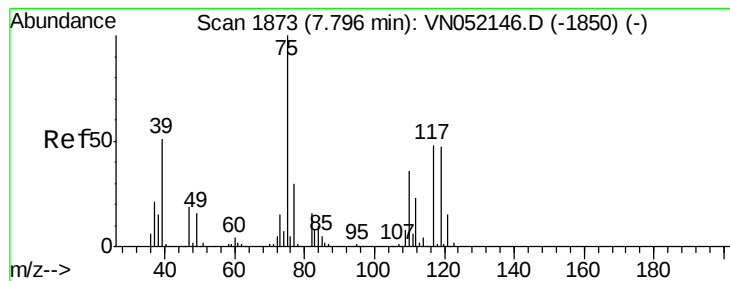
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052190.D
 Acq: 6 Nov 2018 14:21

Tgt Ion:113 Resp: 219061
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.1 124.7
 192 17.6 12.7 19.1



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: 5.019 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampleId :

SB-S

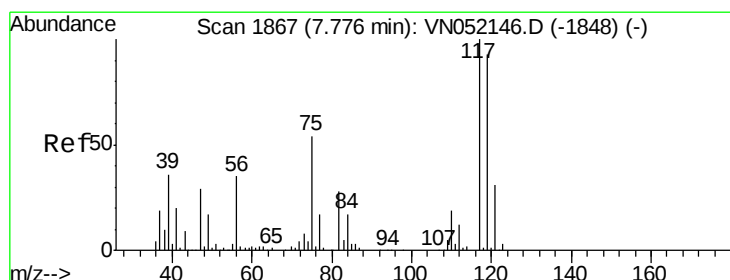
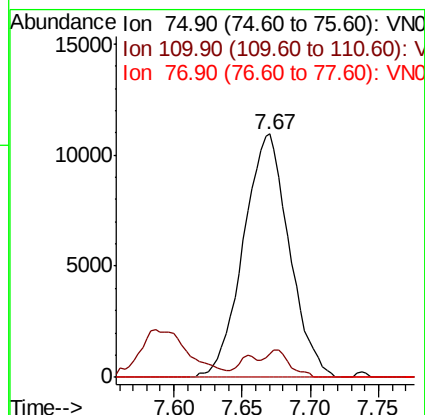
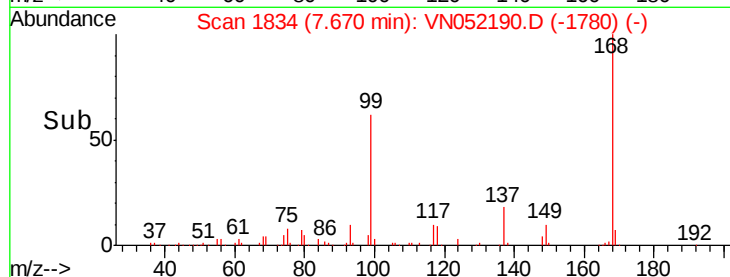
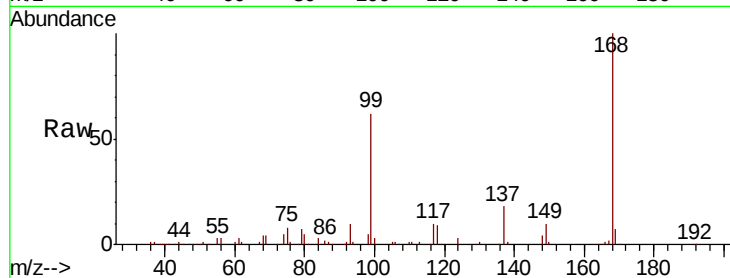
Tgt Ion: 75 Resp: 25523

Ion Ratio Lower Upper

75 100

110 5.7 16.0 48.0#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.615 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

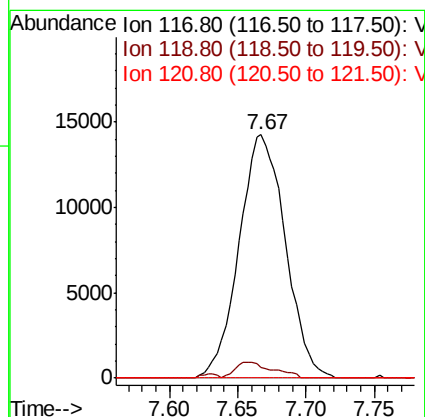
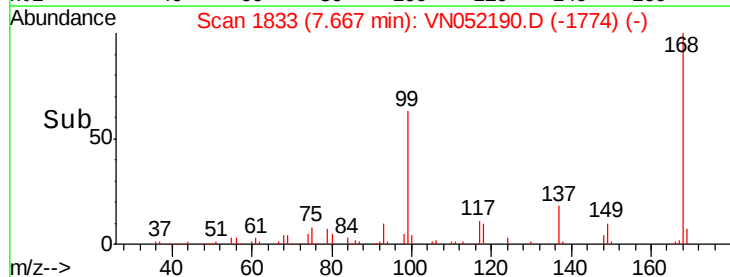
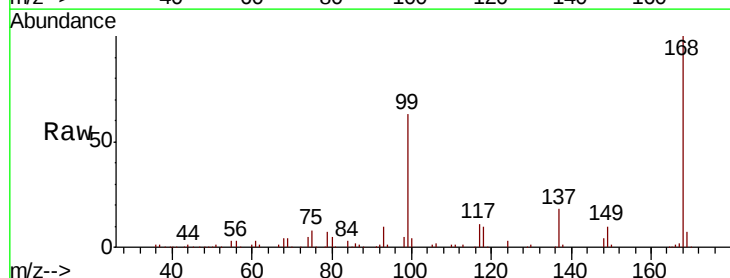
Tgt Ion: 117 Resp: 33606

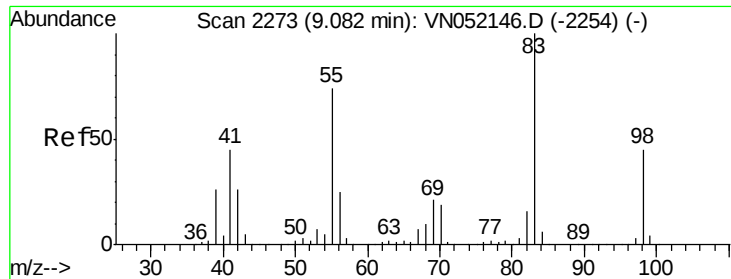
Ion Ratio Lower Upper

117 100

119 4.4 74.8 112.2#

121 0.0 25.1 37.7#

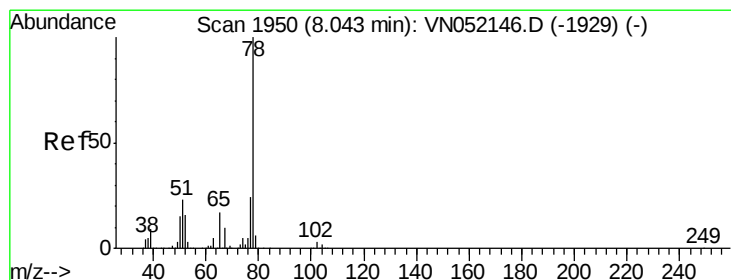
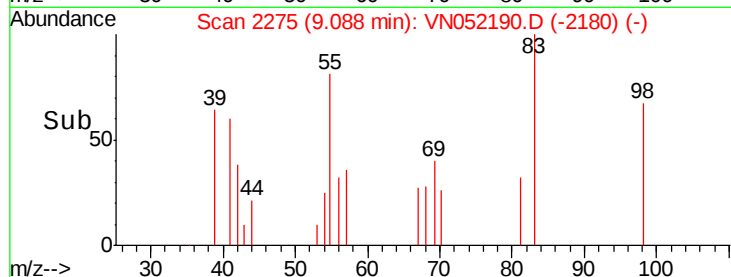
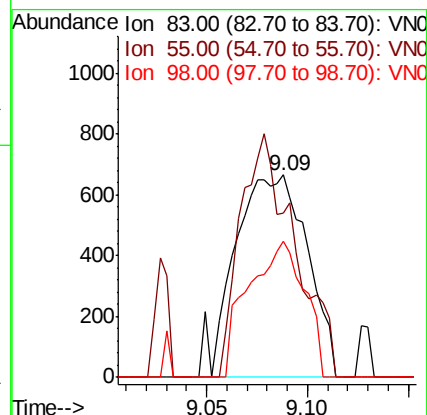
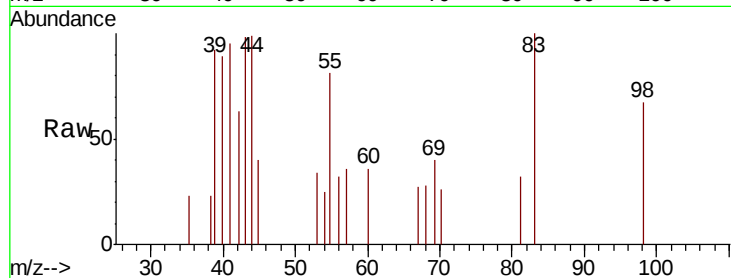




#39
Methylcyclohexane
Concen: 0.277 ug/l
RT: 9.09 min Scan# 2275
Delta R.T. 0.01 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

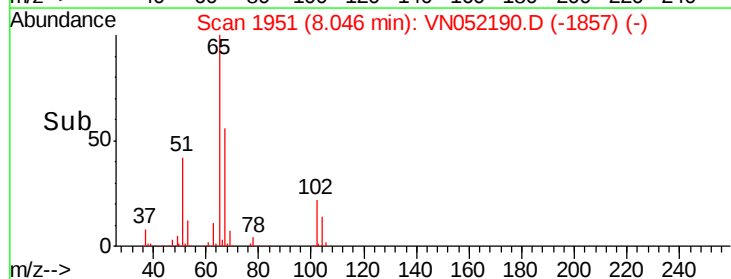
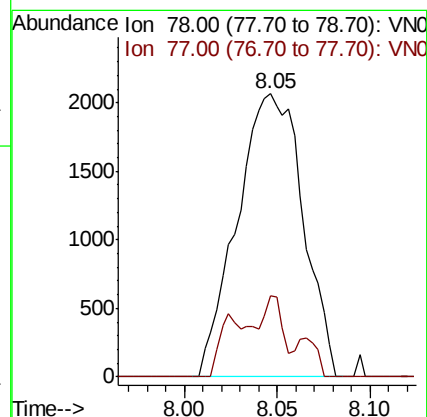
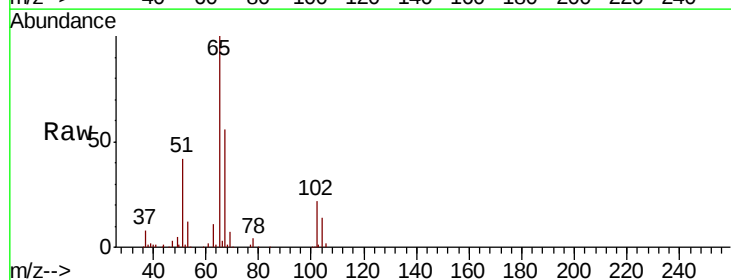
Instrument :
MSVOA_N
ClientSampled :
SB-S

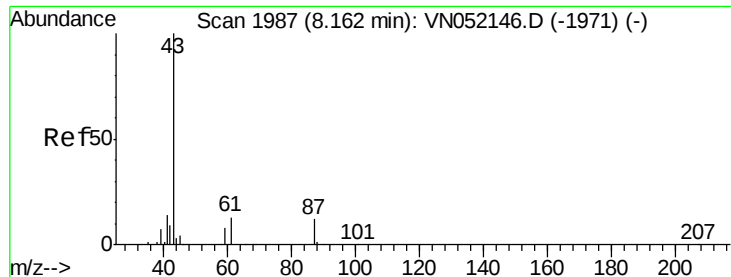
Tgt Ion: 83 Resp: 1667
Ion Ratio Lower Upper
83 100
55 81.1 62.0 93.0
98 67.4 34.7 52.1#



#40
Benzene
Concen: 0.341 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Tgt Ion: 78 Resp: 5093
Ion Ratio Lower Upper
78 100
77 28.8 19.8 29.6

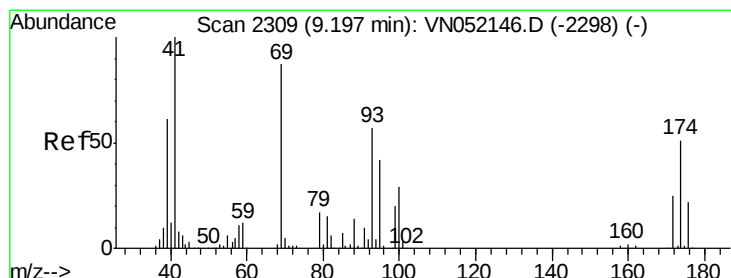
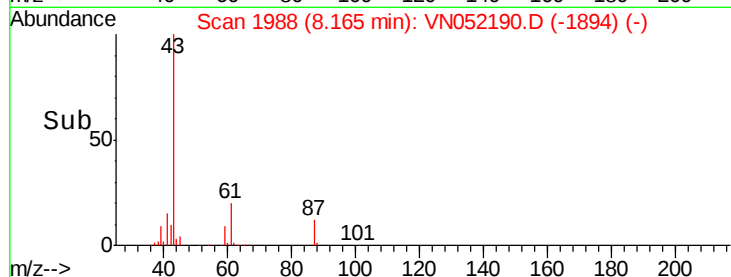
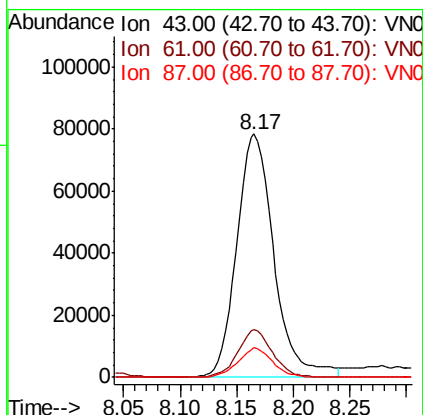
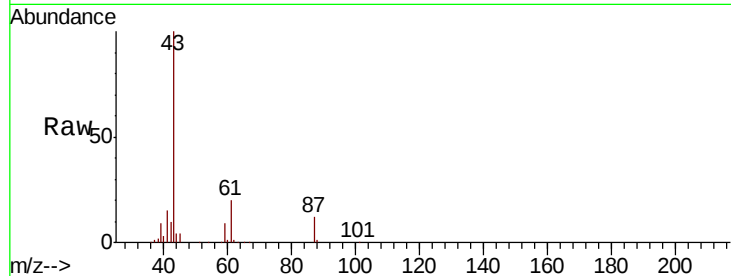




#43
Isopropyl Acetate
Concen: 31.054 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

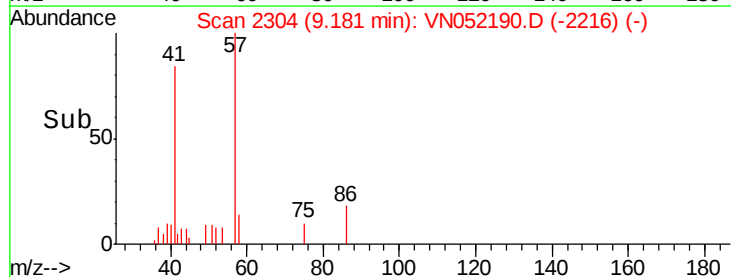
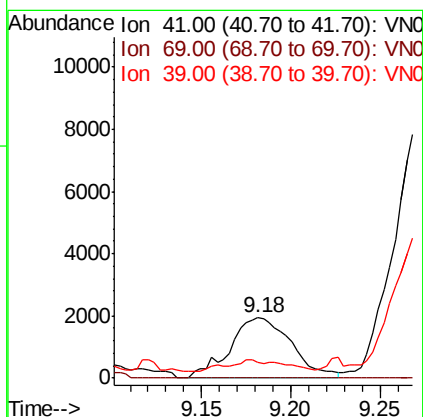
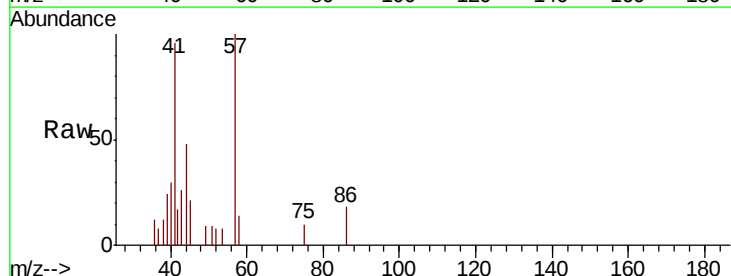
Instrument :
MSVOA_N
ClientSampled :
SB-S

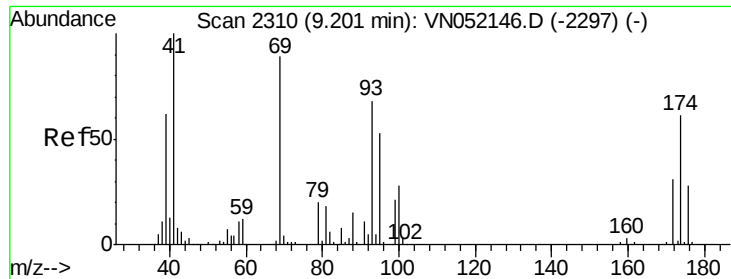
Tgt Ion: 43 Resp: 180176
Ion Ratio Lower Upper
43 100
61 18.2 15.4 23.0
87 11.3 9.8 14.8



#48
Methyl methacrylate
Concen: 1.680 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Tgt Ion: 41 Resp: 4692
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 0.0 50.5 75.7#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampleId :

SB-S

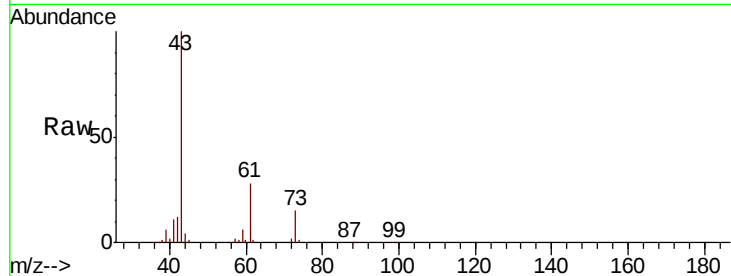
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 204626.1 34.1 51.1#

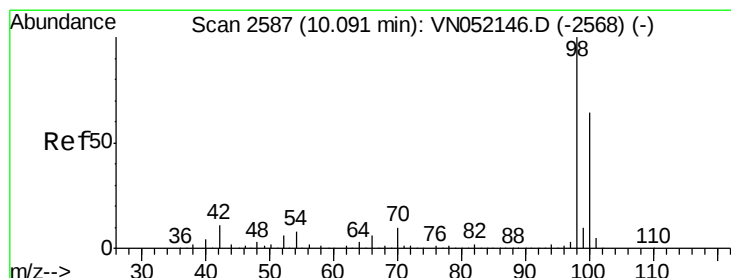
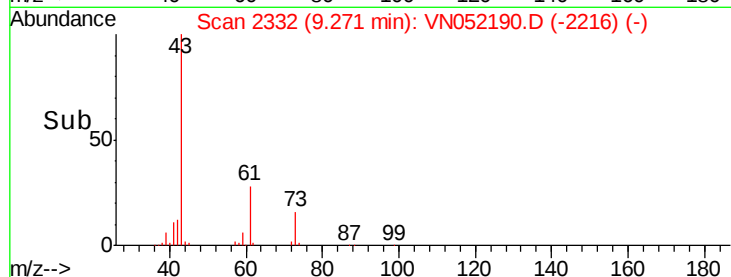
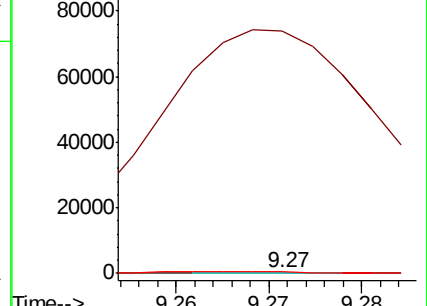
58 1005.8 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052190.D

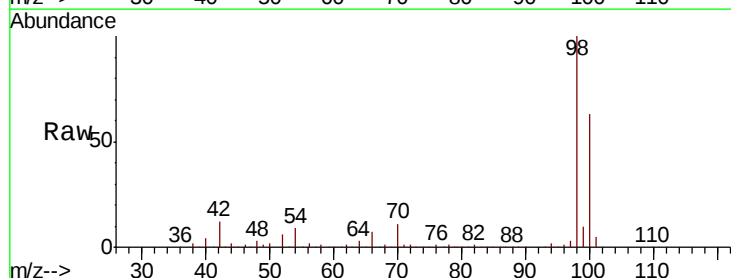
Acq: 6 Nov 2018 14:21

Tgt Ion: 98 Resp: 851465

Ion Ratio Lower Upper

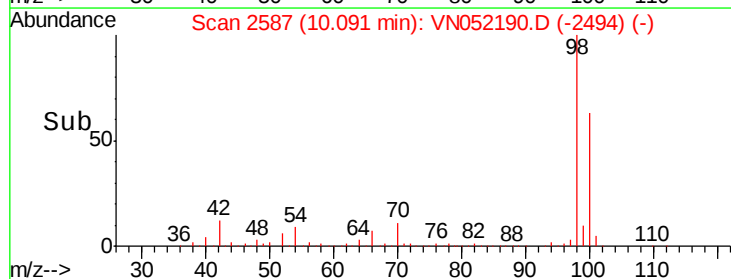
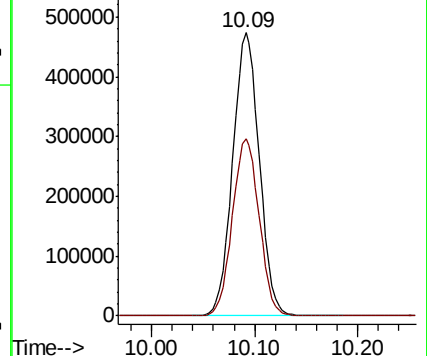
98 100

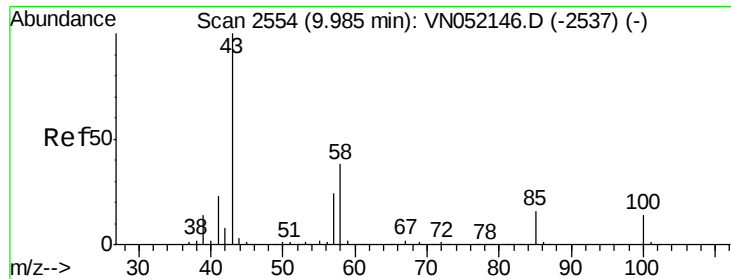
100 63.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.342 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampled :

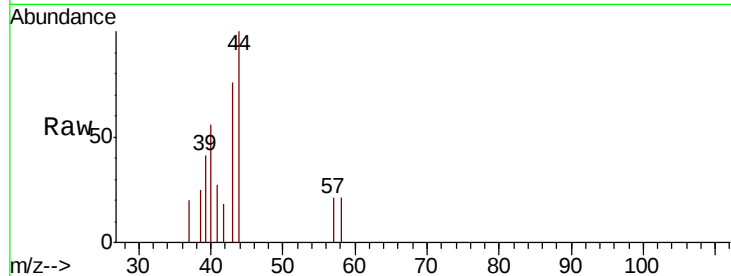
SB-S

Tgt Ion: 43 Resp: 1048

Ion Ratio Lower Upper

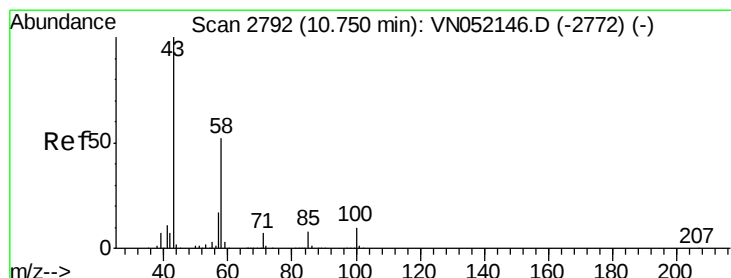
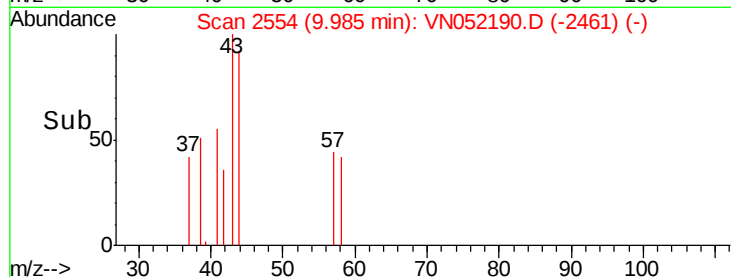
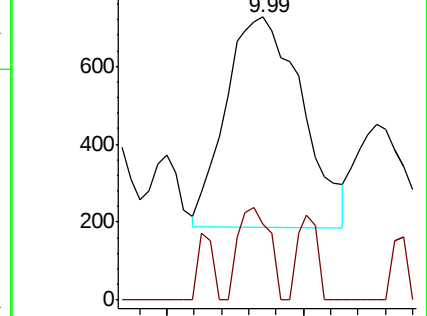
43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 4.976 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052190.D

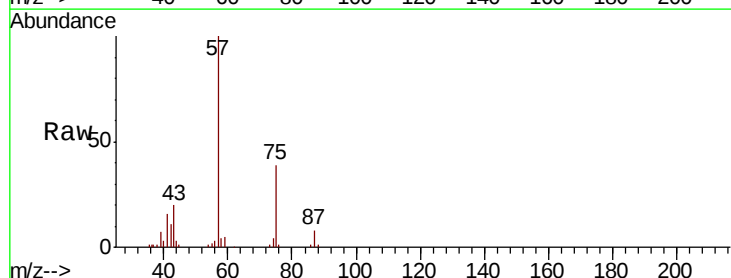
Acq: 6 Nov 2018 14:21

Tgt Ion: 43 Resp: 10618

Ion Ratio Lower Upper

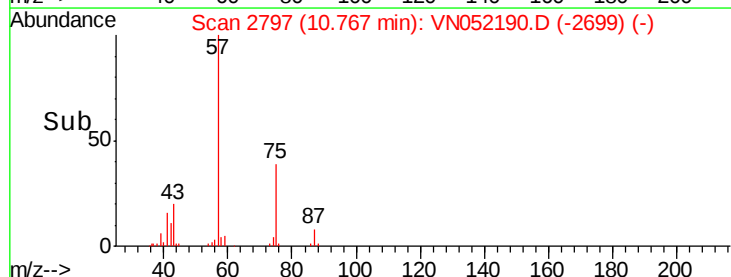
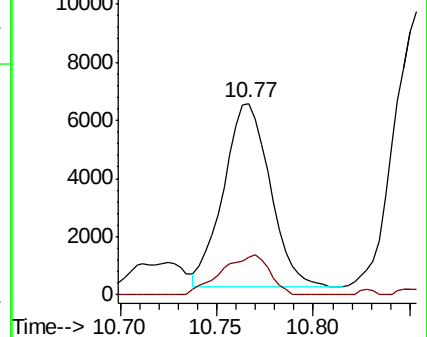
43 100

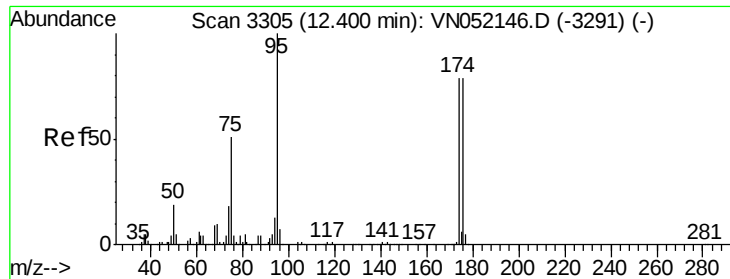
58 22.3 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

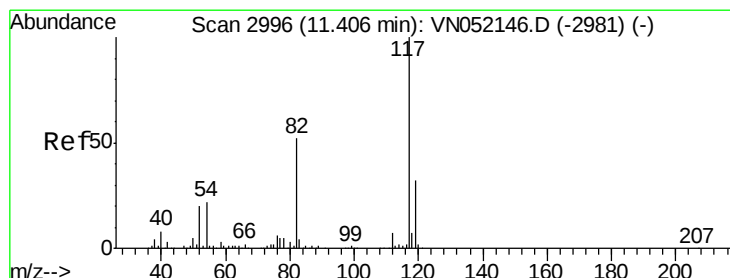
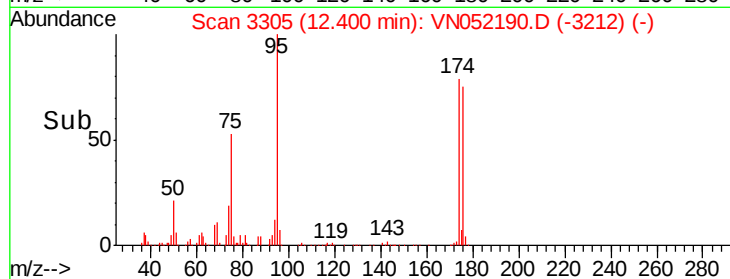
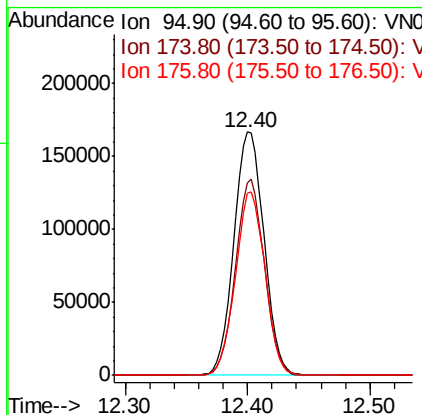
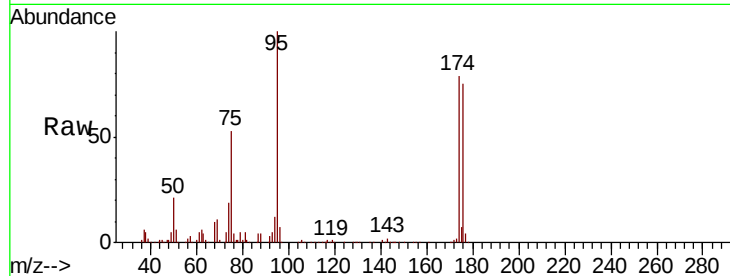




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

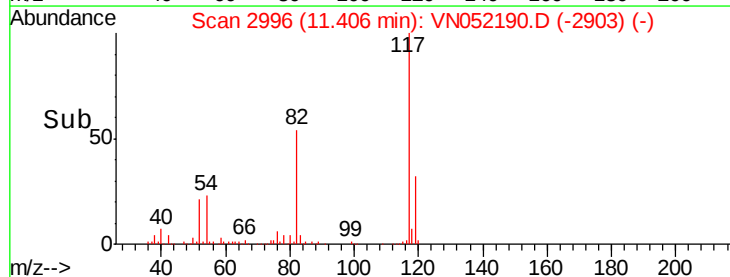
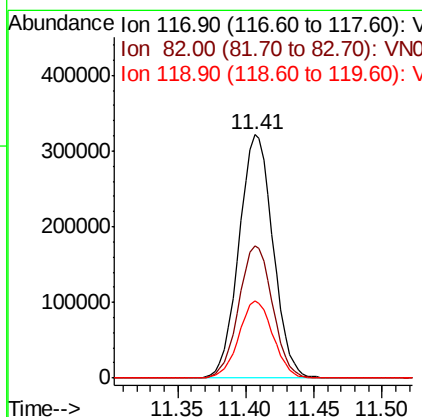
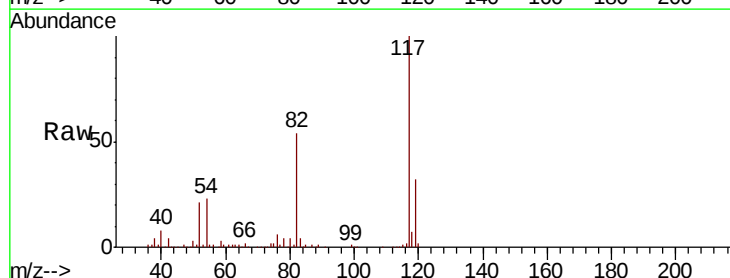
Instrument :
MSVOA_N
ClientSampleId :
SB-S

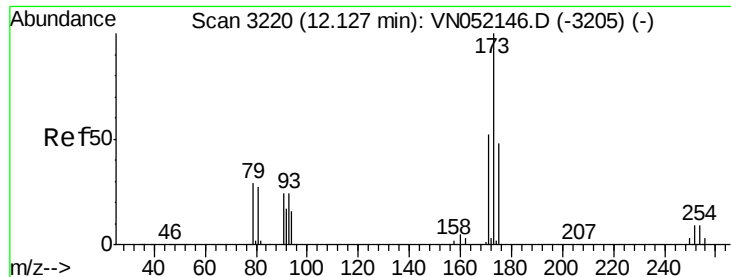
Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	131.8
176	73.9	0.0	126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052190.D
Acq: 6 Nov 2018 14:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.4	49.9	74.9
119	31.7	25.7	38.5





#71

Bromoform

Concen: 2.934 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampled :

SB-S

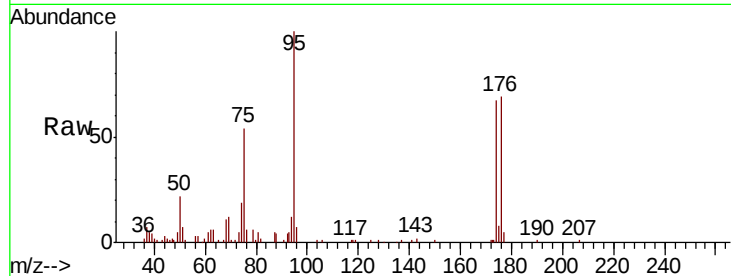
Tgt Ion:173 Resp: 373

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

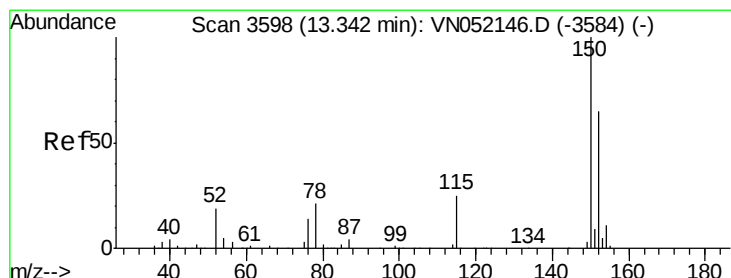
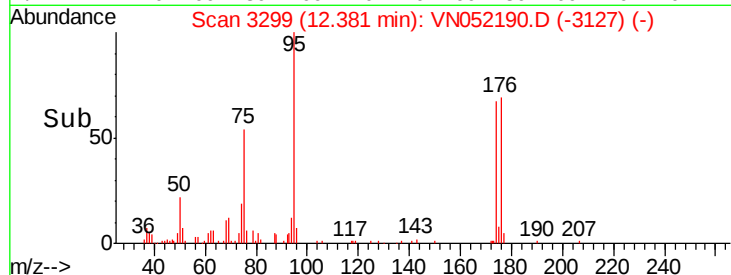
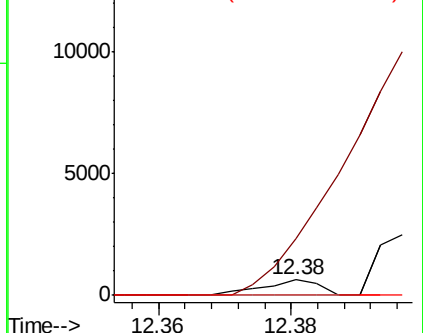
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

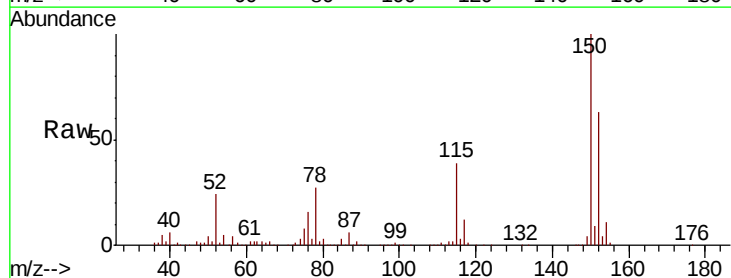
Tgt Ion:152 Resp: 227299

Ion Ratio Lower Upper

152 100

115 62.4 31.6 95.0

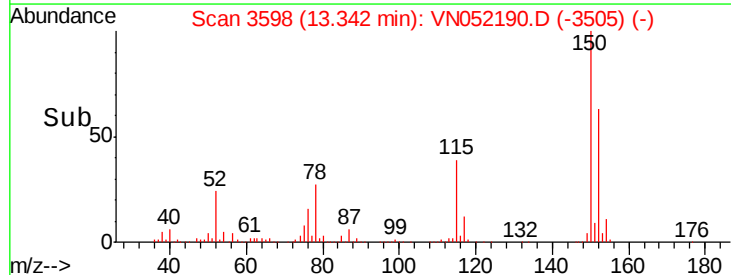
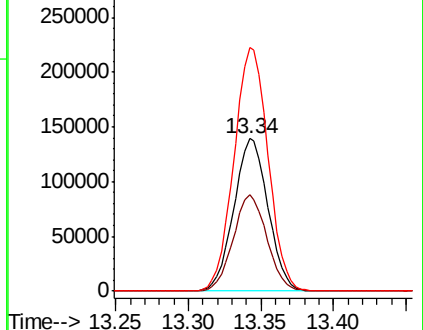
150 159.8 0.0 345.0

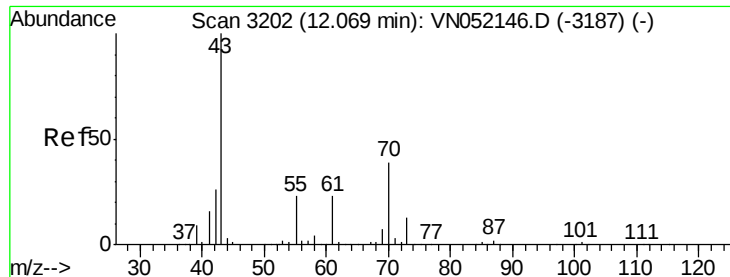


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampled :

SB-S

Tgt Ion: 43 Resp: 293

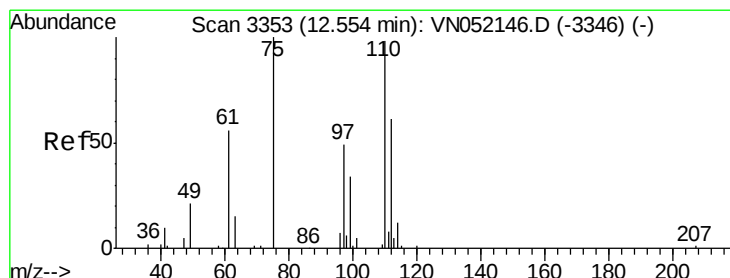
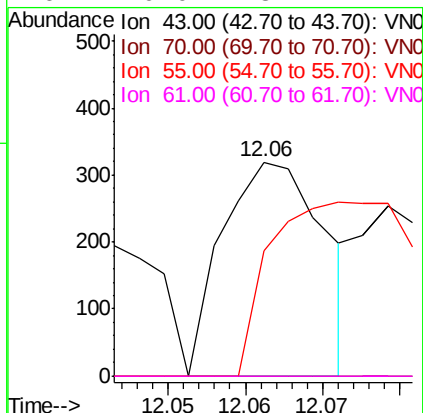
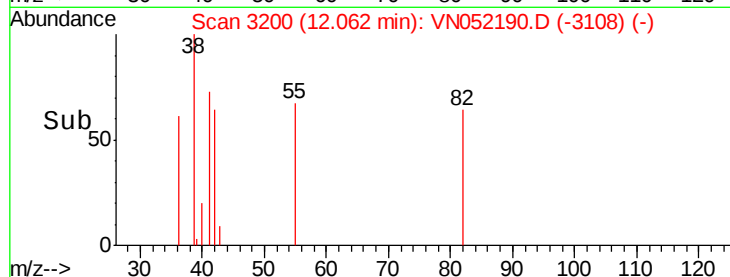
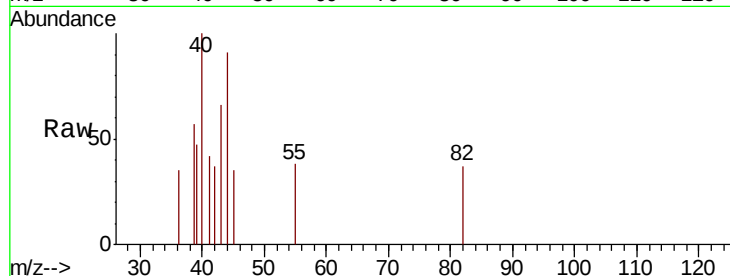
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 107.8 18.4 27.6#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 49.110 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052190.D

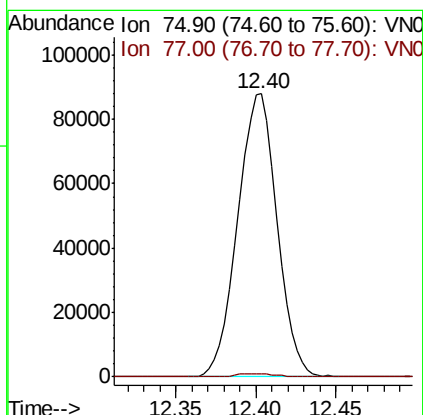
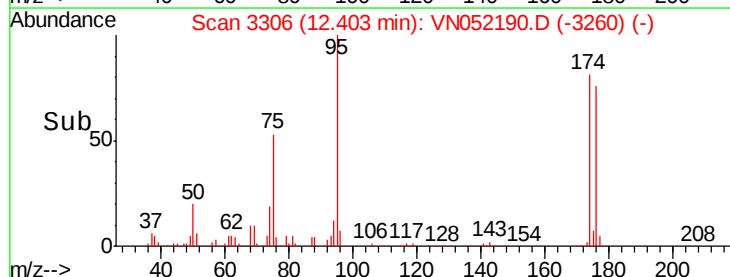
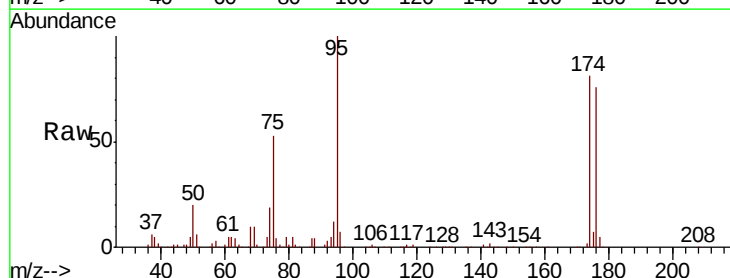
Acq: 6 Nov 2018 14:21

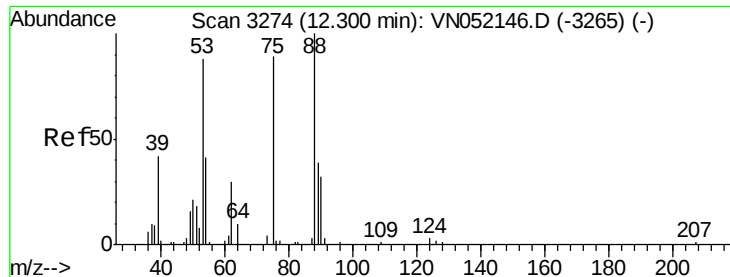
Tgt Ion: 75 Resp: 147543

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 147.691 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampleId :

SB-S

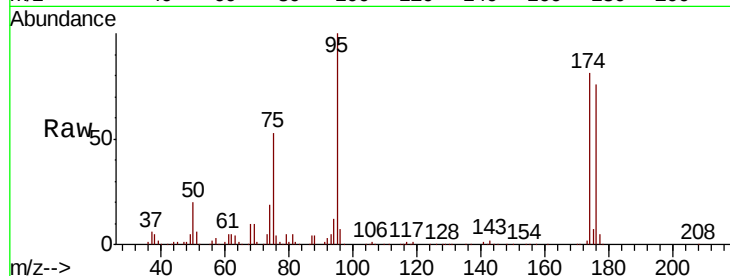
Tgt Ion: 75 Resp: 147543

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

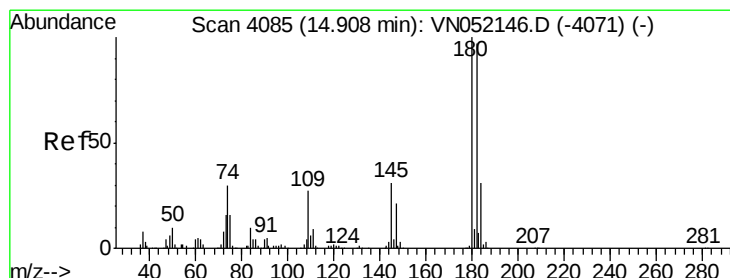
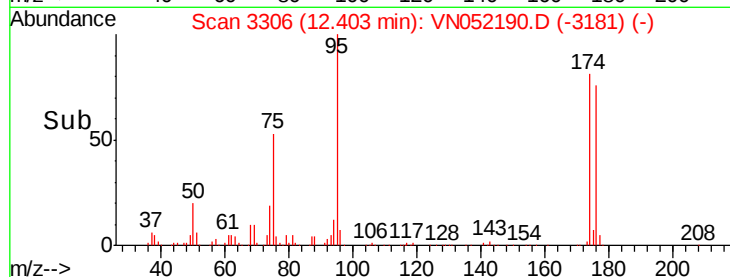
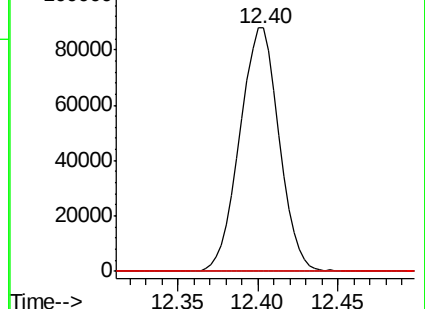
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052190.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052190.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052190.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.257 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

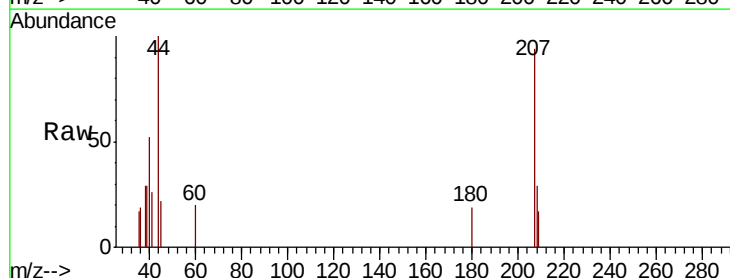
Tgt Ion: 180 Resp: 70

Ion Ratio Lower Upper

180 100

182 0.0 49.1 147.4#

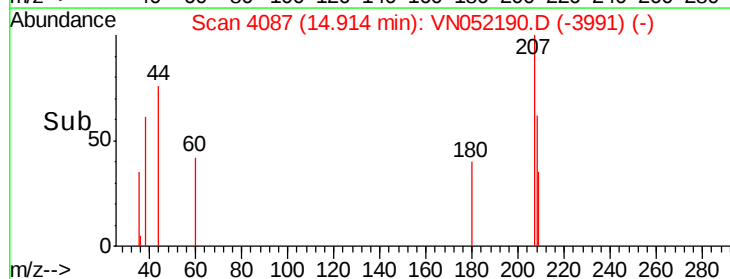
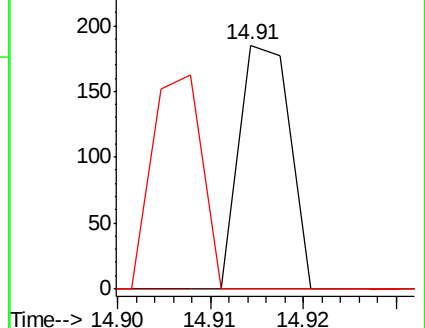
145 87.1 16.4 49.2#

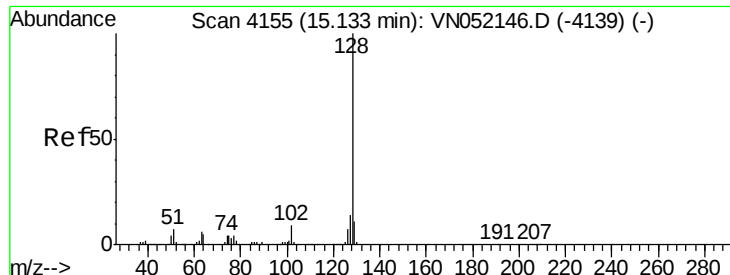


Abundance Ion 179.80 (179.50 to 180.50): VN052190.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN052190.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN052190.D (-3991) (-)





#95

Naphthalene

Concen: 2.708 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052190.D

Acq: 6 Nov 2018 14:21

Instrument :

MSVOA_N

ClientSampleId :

SB-S

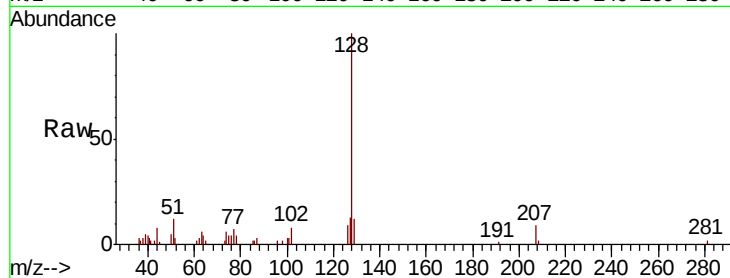
Tgt Ion:128 Resp: 18848

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 12.7 8.6 12.8



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

