

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049892.D
 Acq On : 19 Jul 2018 00:33
 Operator : MD\SY
 Sample : PB111206ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 06:07:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	565663	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	947477	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	788173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275323	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	408431	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
35) Dibromofluoromethane	7.59	113	360667	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	
50) Toluene-d8	10.09	98	1272466	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	
62) 4-Bromofluorobenzene	12.40	95	336454	33.71	ug/l	0.00
Spiked Amount			Recovery	=	67.42%	

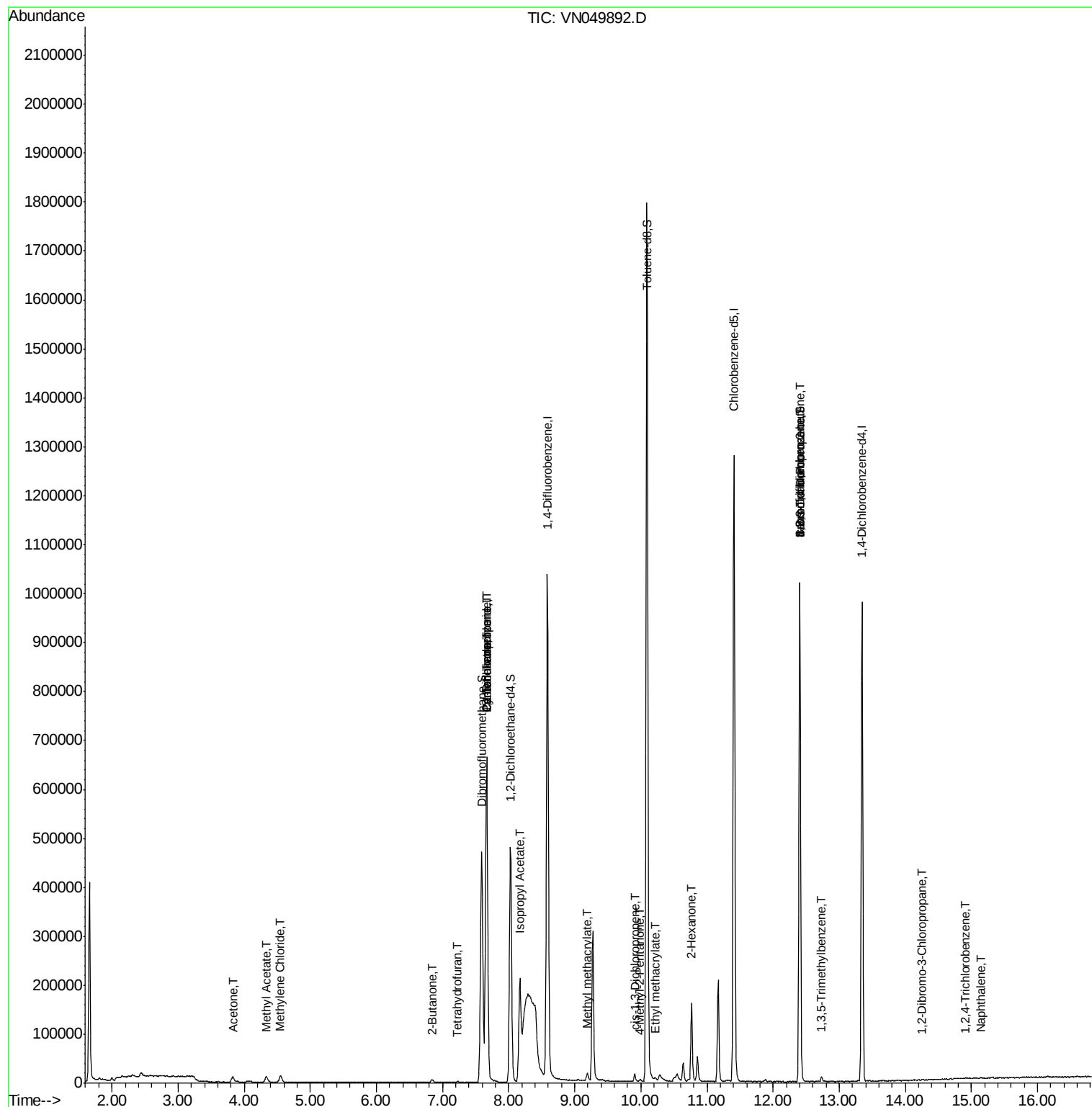
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	158	Below Cal	#	44
5) Bromomethane	2.57	94	944	Below Cal		92
16) Acetone	3.83	43	20290	10.08	ug/l	93
18) Methyl Acetate	4.34	43	22654	2.80	ug/l	95
20) Methylene Chloride	4.55	84	9658	1.26	ug/l	97
25) 2-Butanone	6.84	43	2568	0.89	ug/l	98
29) Tetrahydrofuran	7.23	42	1612	0.89	ug/l	# 76
31) Cyclohexane	7.66	56	10946	1.06	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	40728	3.87	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	51400	4.55	ug/l	# 17
43) Isopropyl Acetate	8.17	43	270133	21.37	ug/l	98
48) Methyl methacrylate	9.18	41	9503	1.50	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.99	43	2386	0.34	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	2591	0.21	ug/l	# 74
56) Ethyl methacrylate	10.23	69	2520	2.38	ug/l	# 49
59) 2-Hexanone	10.77	43	23155	4.88	ug/l	# 55
71) Bromoform	12.40	173	2933	0.53	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	163497	31.66	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.74	105	4817	0.29	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	163497	98.99	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	385	0.40	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.91	180	956	3.64	ug/l	# 67
95) Naphthalene	15.14	128	2183	4.64	ug/l	# 79

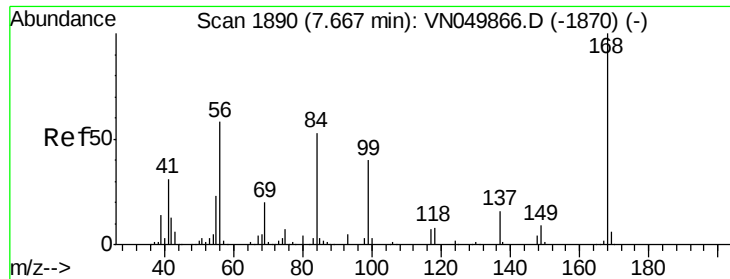
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

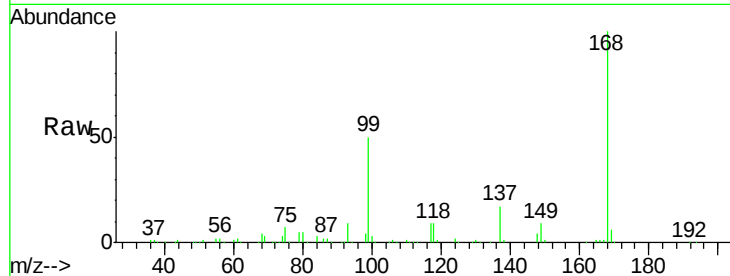
ClientSampleId :

Tot Ion:168 Resp: 565663

Ion Ratio Lower Upper

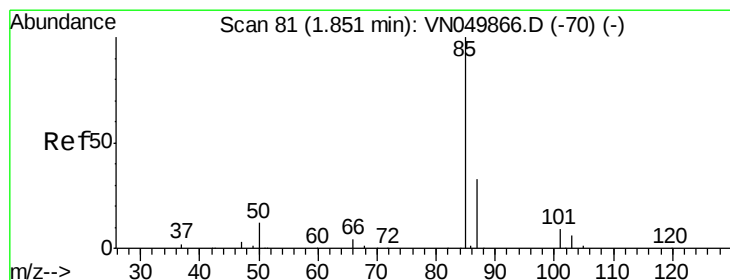
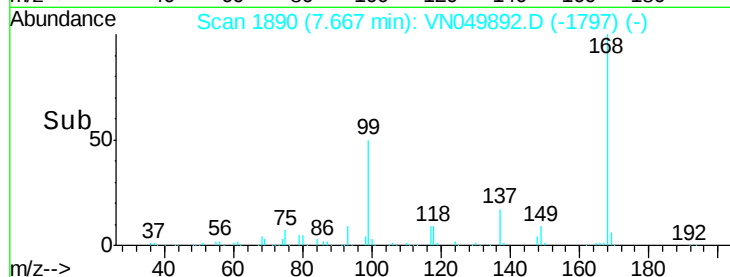
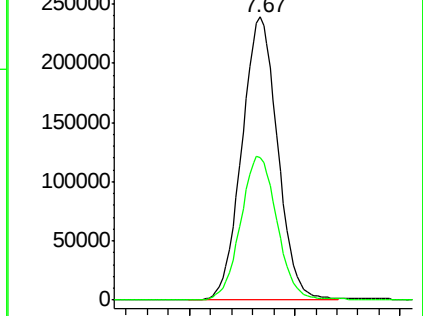
168 100

99 50.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049892.D

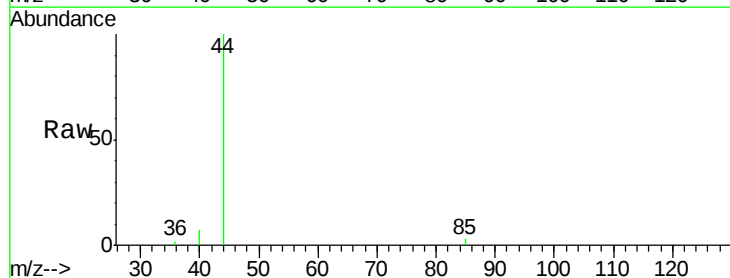
Acq: 19 Jul 2018 00:33

Tgt Ion: 85 Resp: 158

Ion Ratio Lower Upper

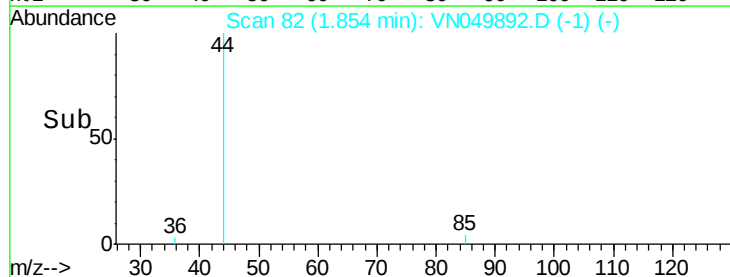
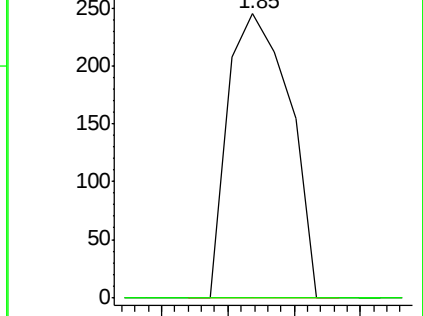
85 100

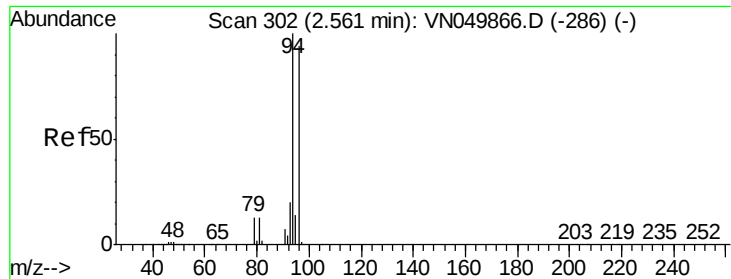
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

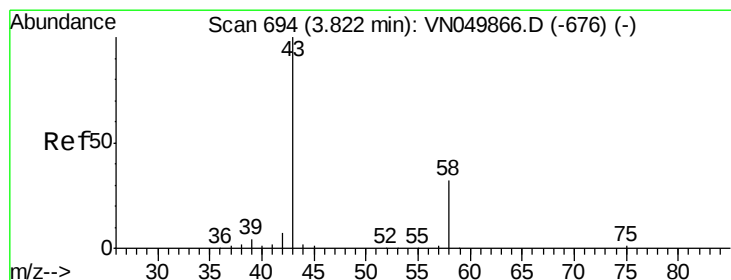
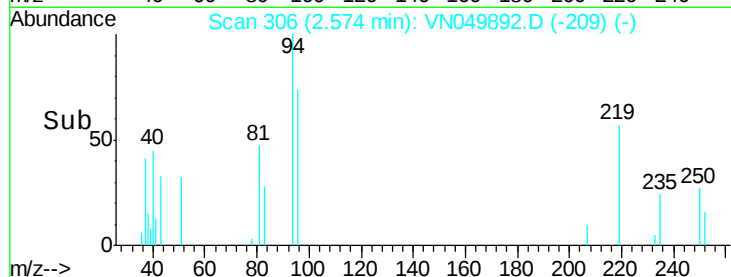
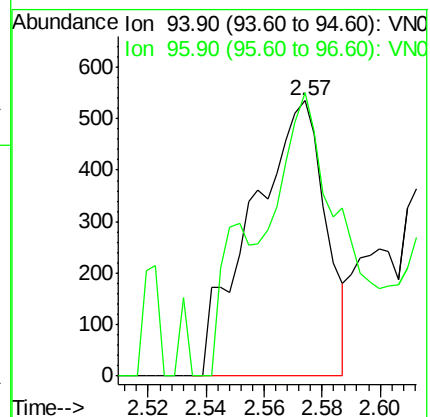
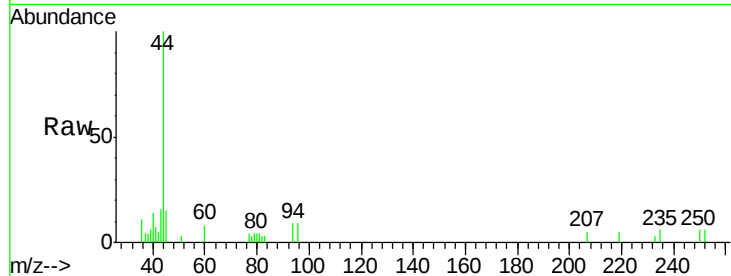
ClientSampled :

Tot Ion: 94 Resp: 944

Ion Ratio Lower Upper

94 100

96 102.8 75.7 113.5



#16

Acetone

Concen: 10.08 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049892.D

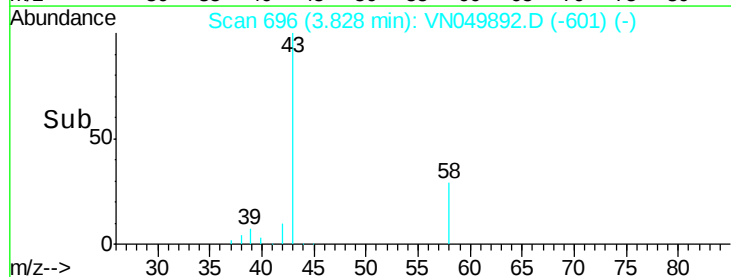
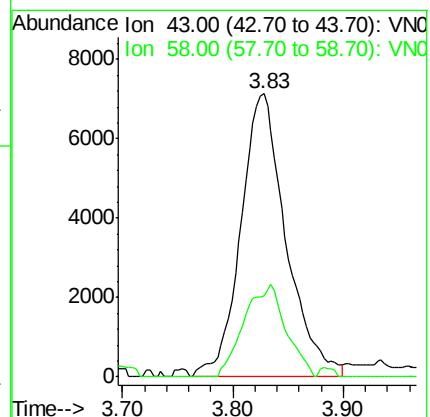
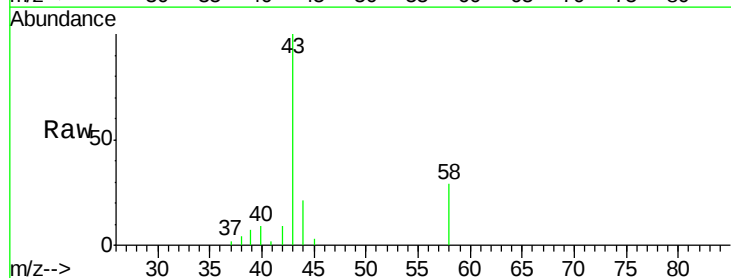
Acq: 19 Jul 2018 00:33

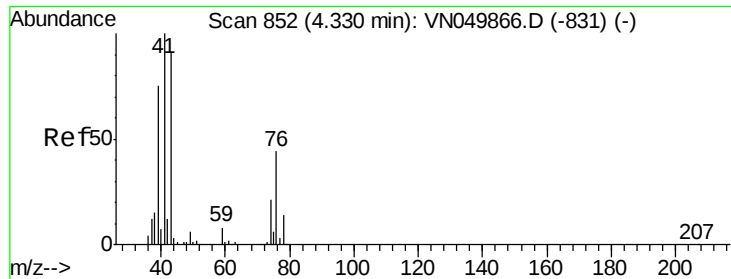
Tgt Ion: 43 Resp: 20290

Ion Ratio Lower Upper

43 100

58 28.6 25.9 38.9

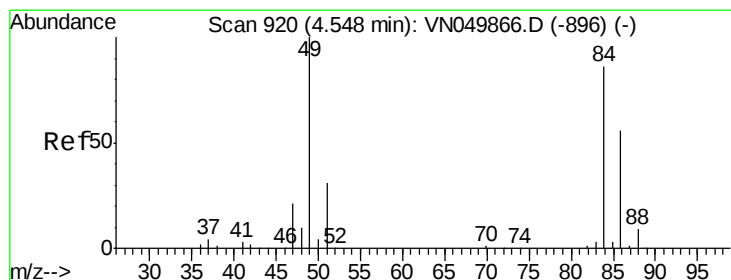
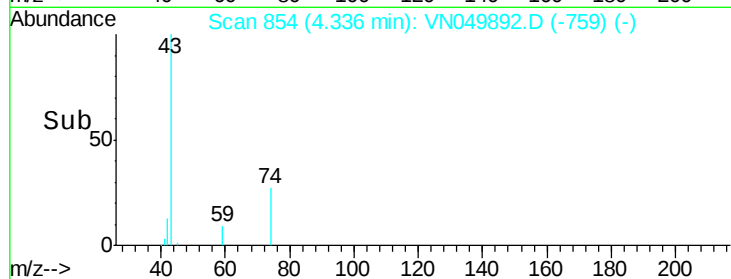
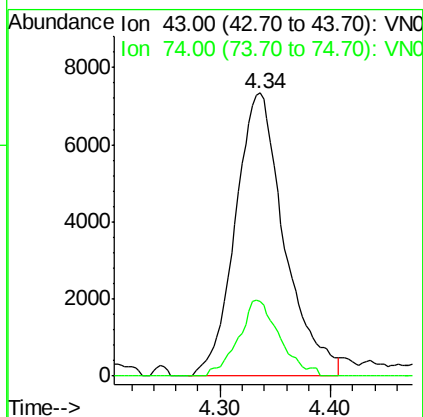
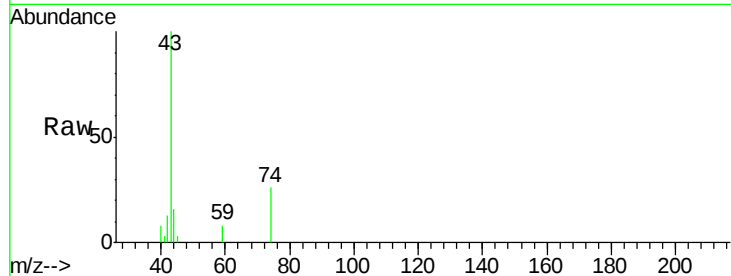




#18
Methvl Acetate
Concen: 2.80 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049892.D
Acq: 19 Jul 2018 00:33

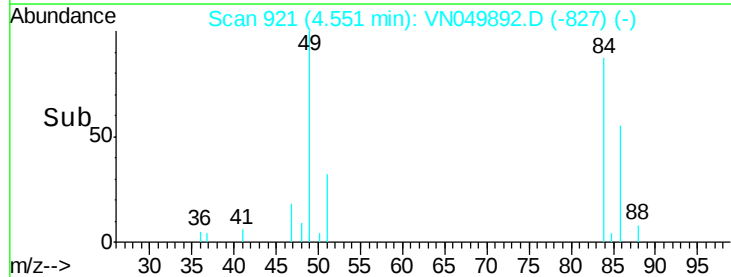
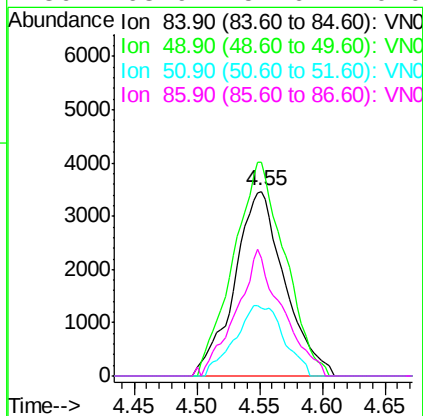
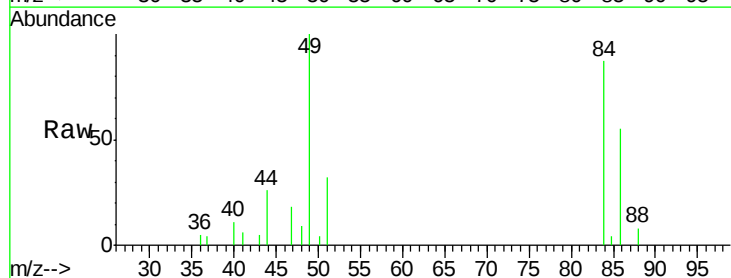
Instrument :
MSVOA_N
ClientSampleId :

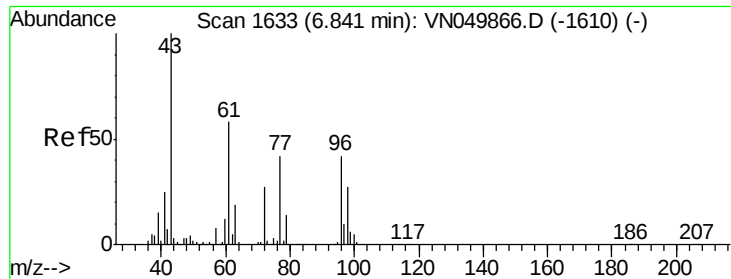
Tot Ion: 43 Resp: 22654
Ion Ratio Lower Upper
43 100
74 22.5 19.8 29.8



#20
Methylene Chloride
Concen: 1.26 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049892.D
Acq: 19 Jul 2018 00:33

Tgt Ion: 84 Resp: 9658
Ion Ratio Lower Upper
84 100
49 115.6 95.4 143.2
51 36.5 28.4 42.6
86 63.9 52.6 79.0





#25

2-Butanone

Concen: 0.89 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

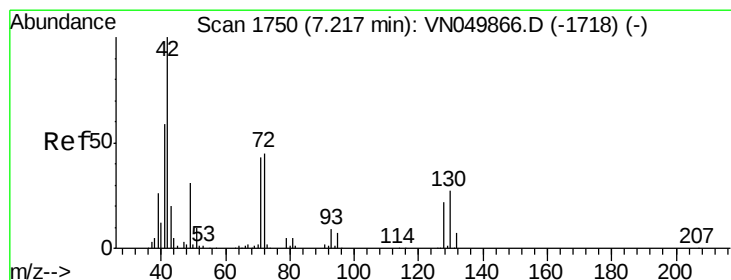
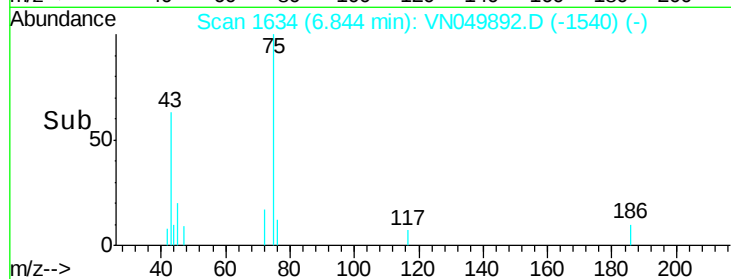
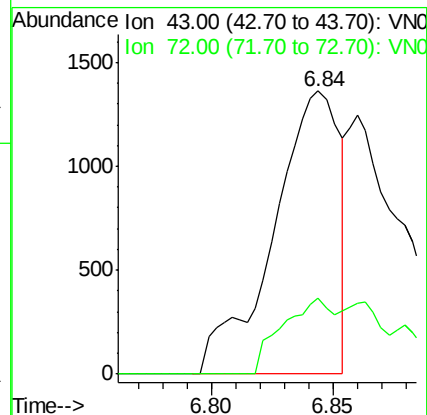
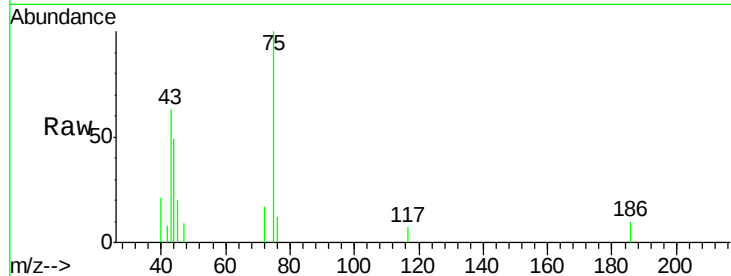
ClientSampled :

Tot Ion: 43 Resp: 2568

Ion Ratio Lower Upper

43 100

72 26.7 22.1 33.1



#29

Tetrahydrofuran

Concen: 0.89 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

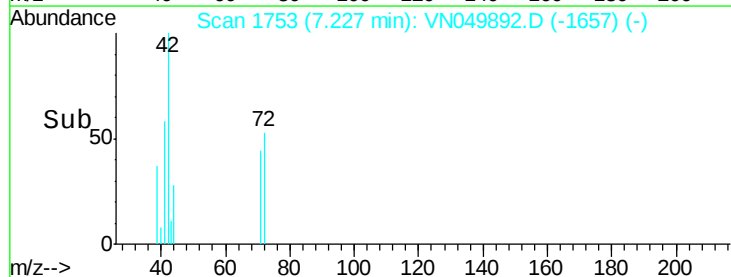
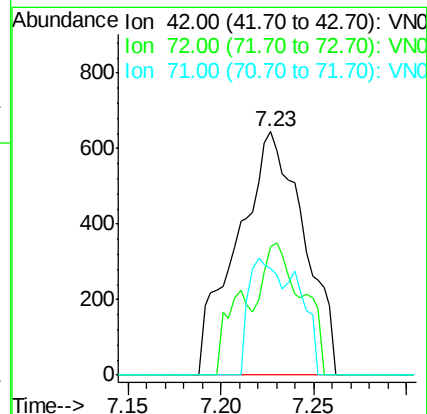
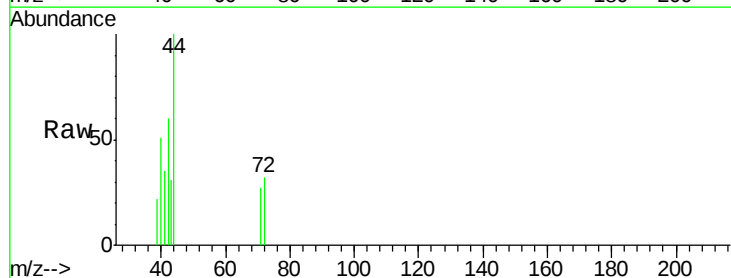
Tgt Ion: 42 Resp: 1612

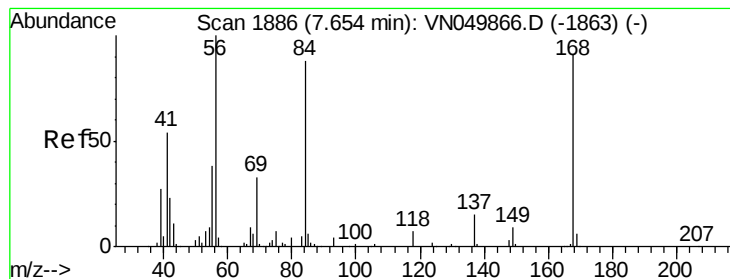
Ion Ratio Lower Upper

42 100

72 33.1 35.6 53.4#

71 22.3 34.0 51.0#





#31

Cyclohexane

Concen: 1.06 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

ClientSampled :

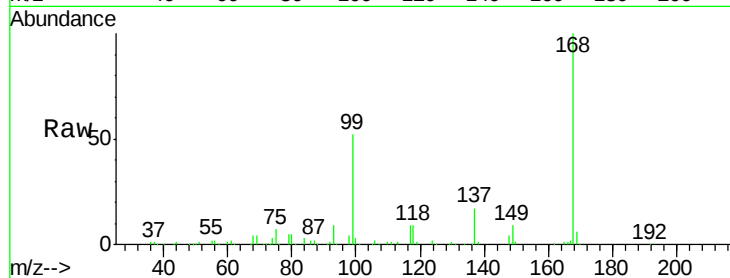
Tot Ion: 56 Resp: 10946

Ion Ratio Lower Upper

56 100

69 190.4 26.6 40.0#

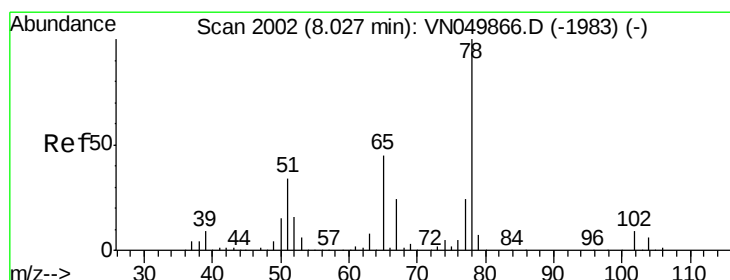
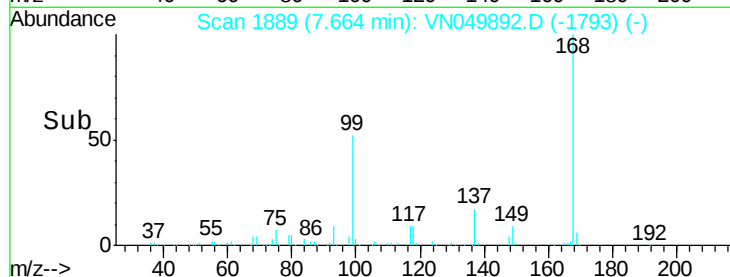
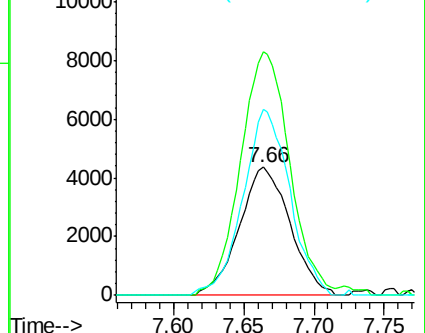
84 145.3 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.53 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049892.D

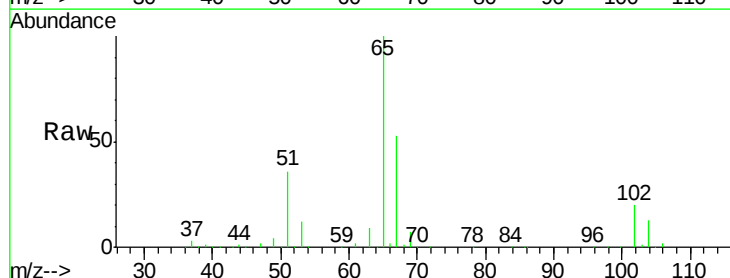
Acq: 19 Jul 2018 00:33

Tgt Ion: 65 Resp: 408431

Ion Ratio Lower Upper

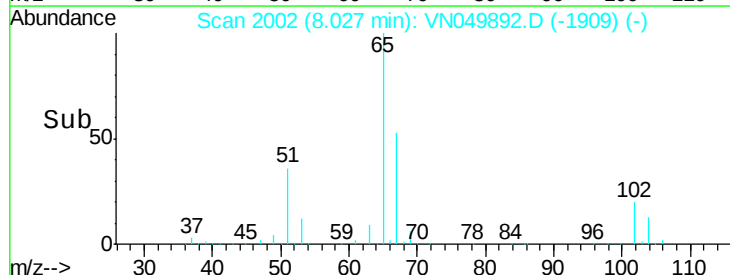
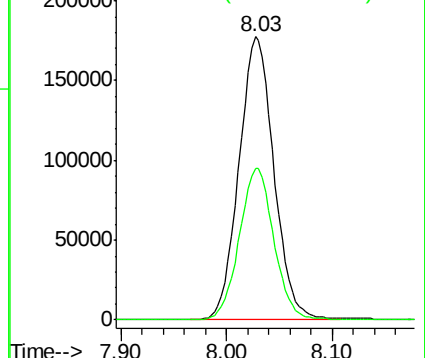
65 100

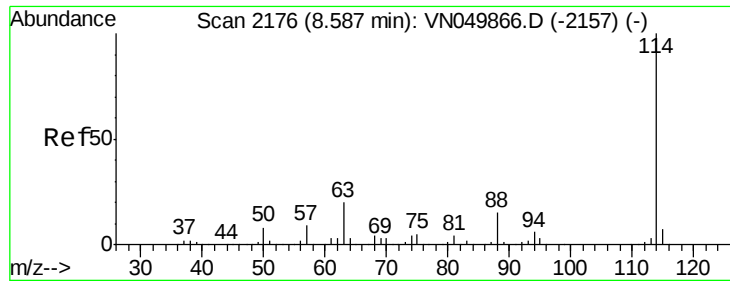
67 53.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)

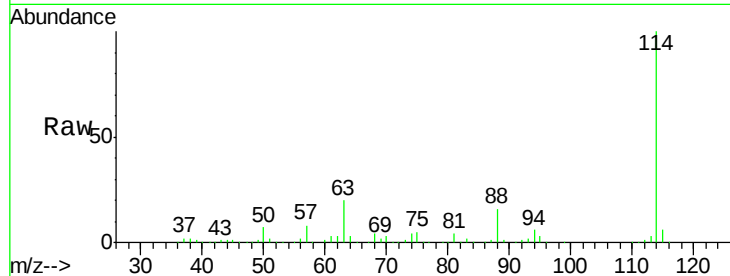




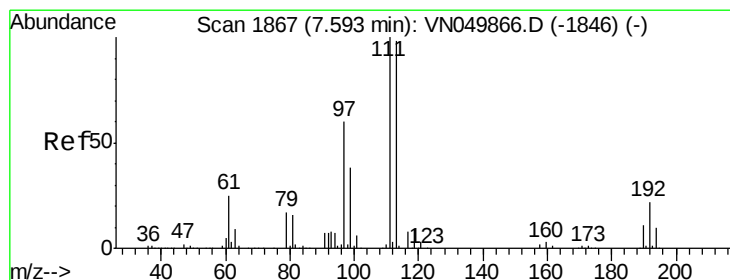
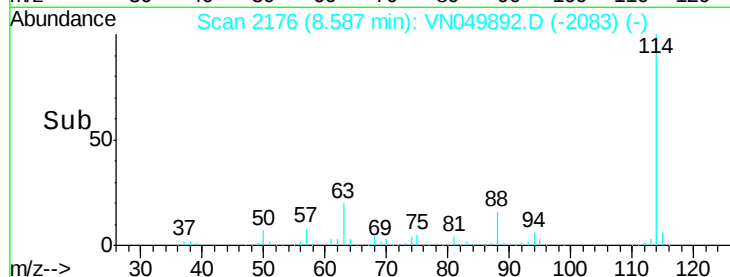
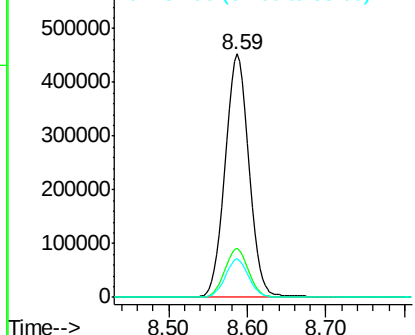
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 947477
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.8
 88 15.7 0.0 30.6

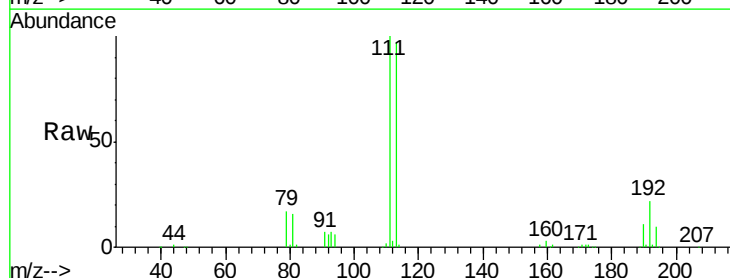


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

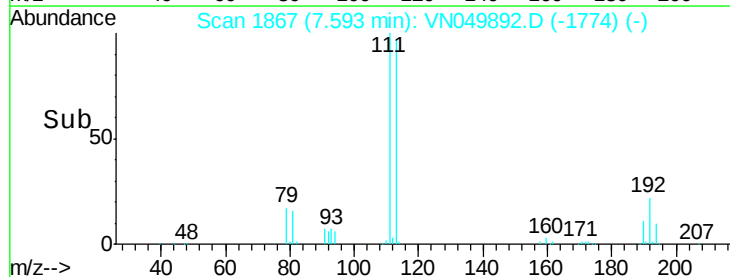
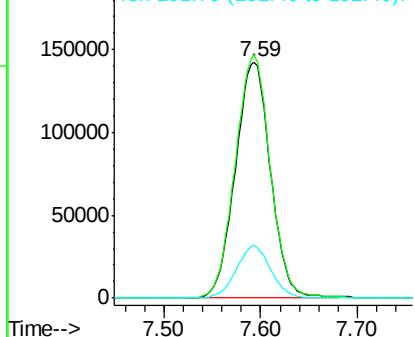


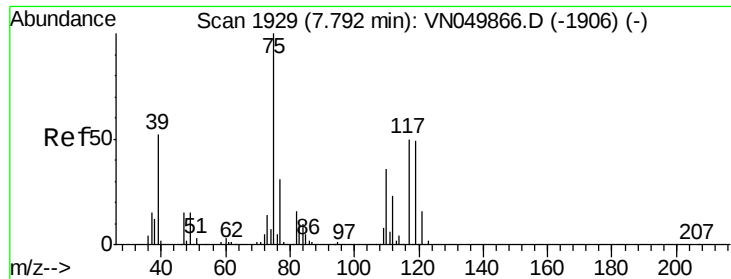
#35
 Dibromofluoromethane
 Concen: 45.34 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Tgt Ion:113 Resp: 360667
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.8 122.8
 192 21.8 17.8 26.6



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

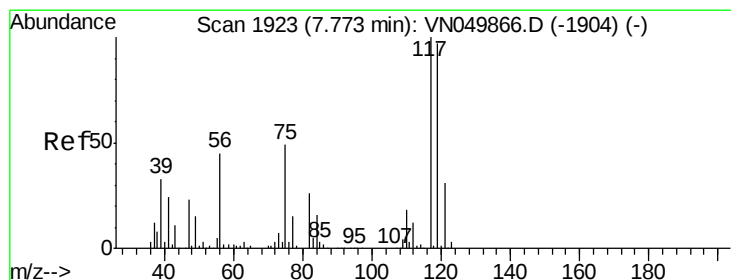
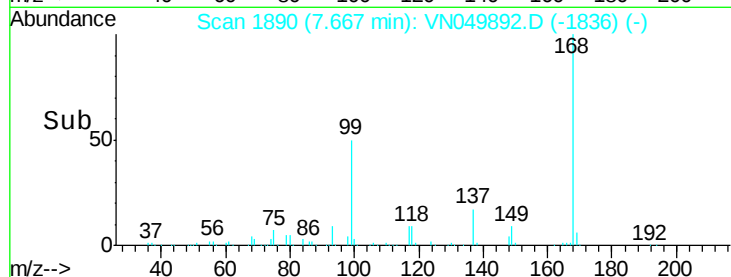
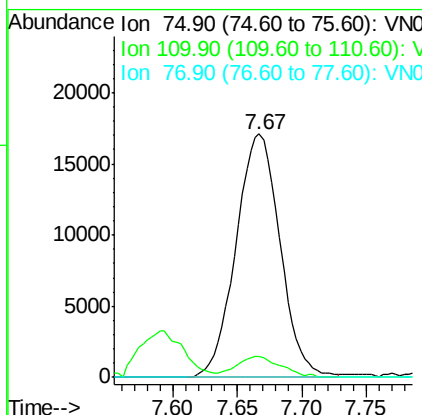
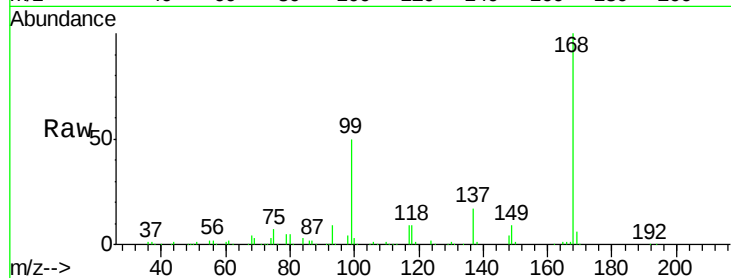




#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

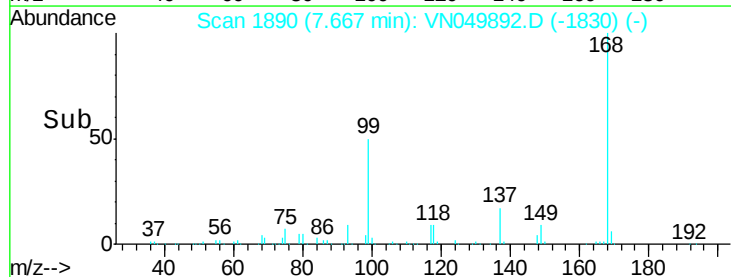
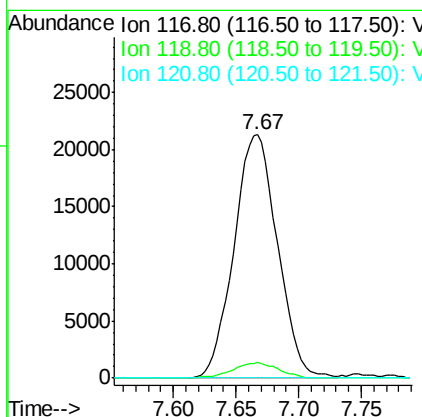
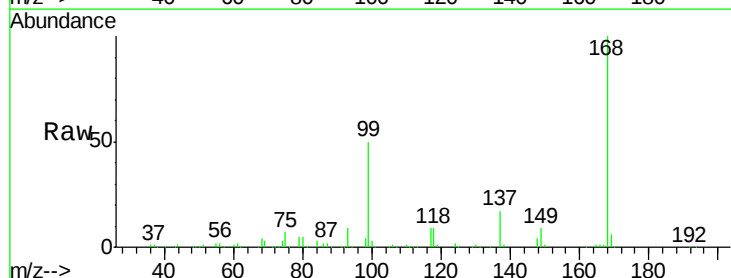
Instrument :
 MSVOA_N
 ClientSampled :

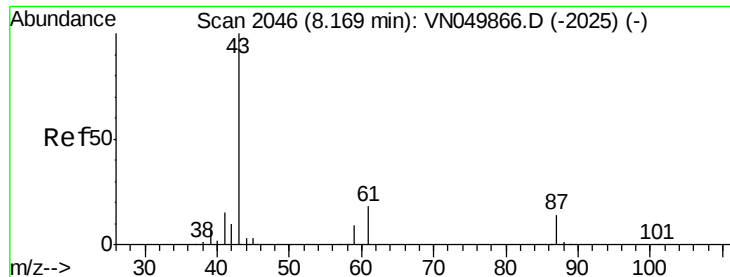
Tot Ion	75	Resp	40728
Ion Ratio	Lower	Upper	
75	100		
110	8.7	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.55 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Tgt Ion	117	Resp	51400
Ion Ratio	Lower	Upper	
117	100		
119	6.5	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 21.37 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :
MSVOA_N
ClientSampled :

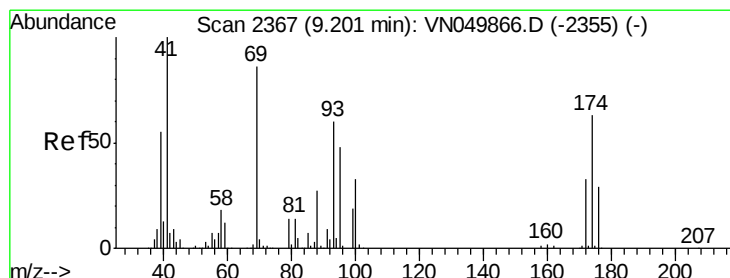
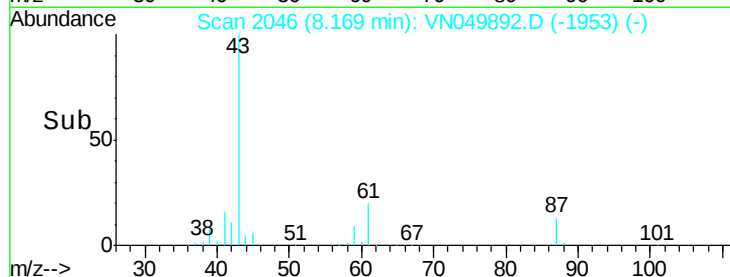
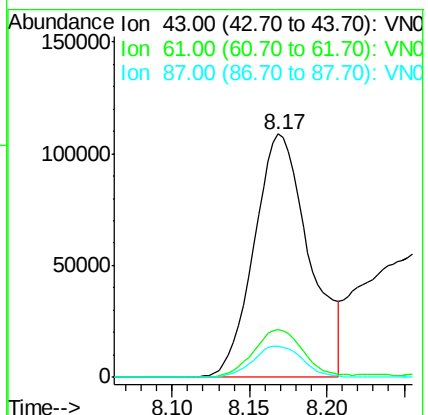
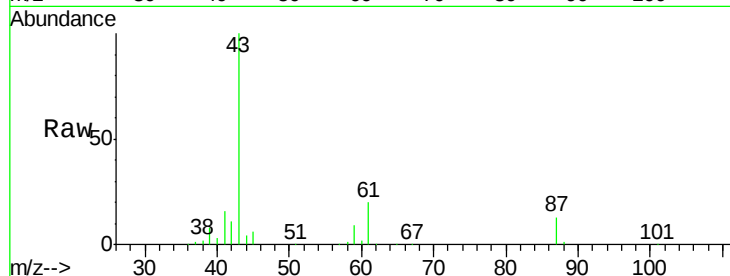
Tot Ion: 43 Resp: 270133

Ion Ratio Lower Upper

43 100

61 17.9 14.9 22.3

87 11.7 10.0 15.0



#48

Methyl methacrylate

Concen: 1.50 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

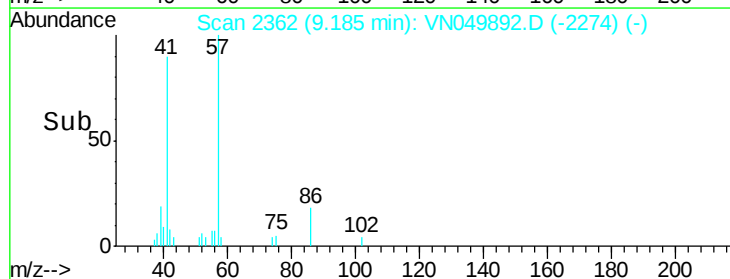
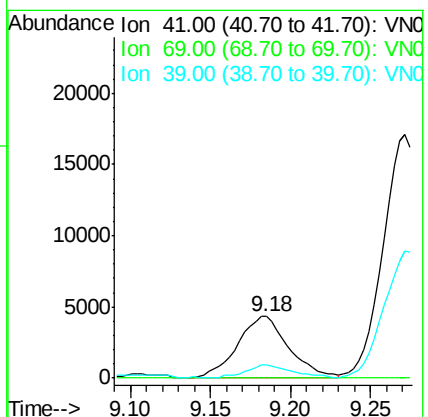
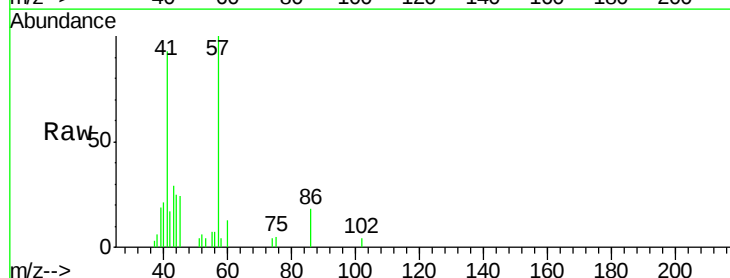
Tgt Ion: 41 Resp: 9503

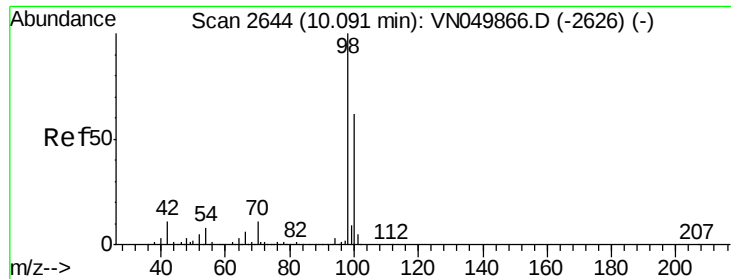
Ion Ratio Lower Upper

41 100

69 0.0 71.5 107.3#

39 19.4 44.7 67.1#





#50

Toluene-d8

Concen: 43.91 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

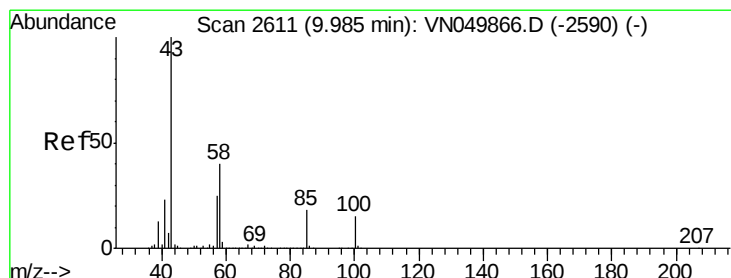
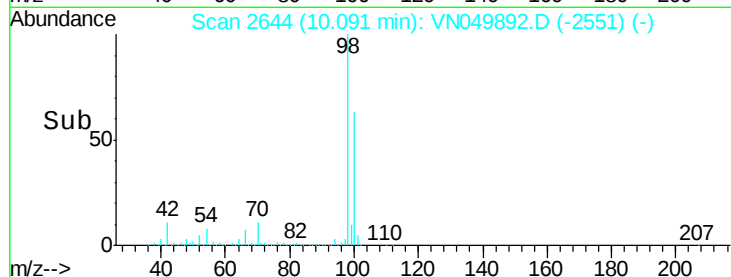
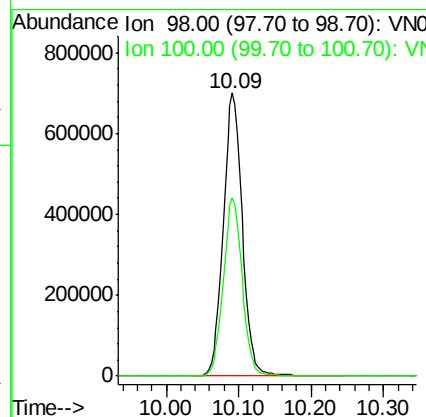
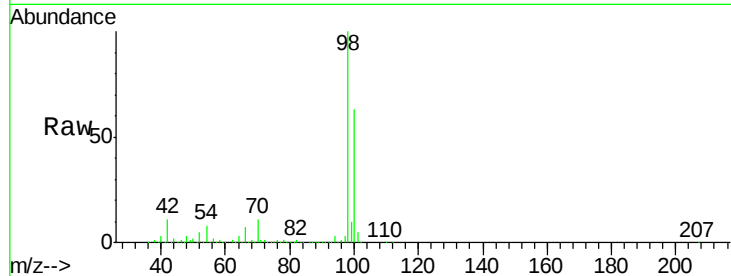
ClientSampleId :

Tot Ion: 98 Resp: 1272466

Ion Ratio Lower Upper

98 100

100 62.7 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.34 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049892.D

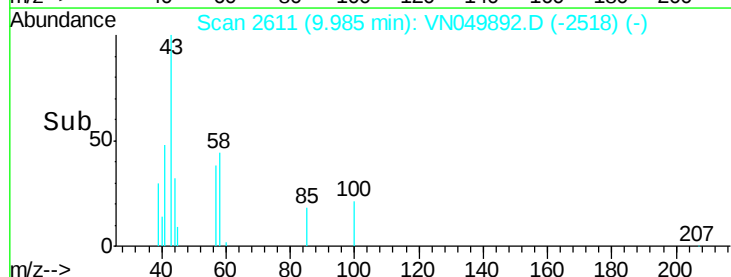
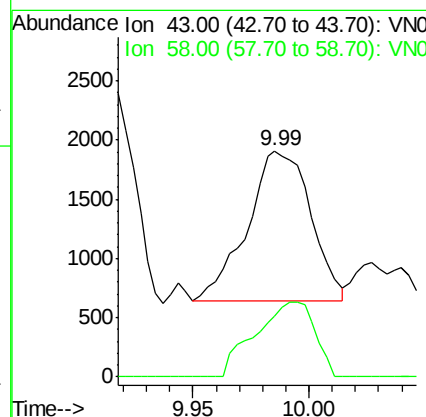
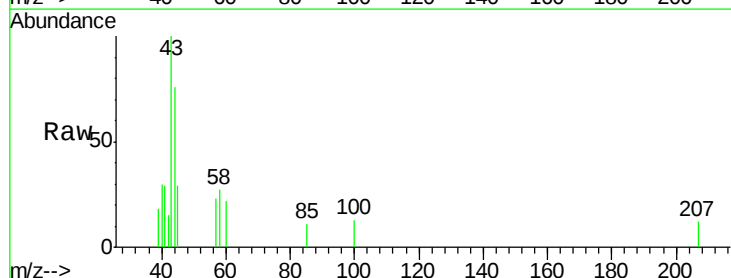
Acq: 19 Jul 2018 00:33

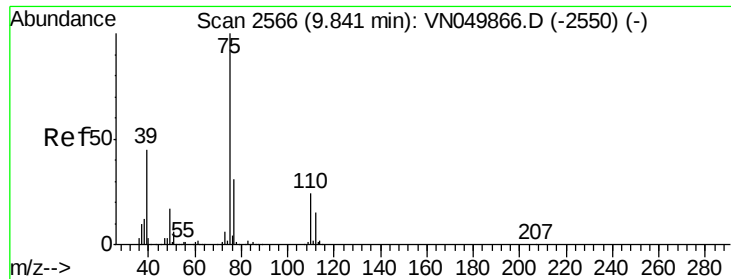
Tgt Ion: 43 Resp: 2386

Ion Ratio Lower Upper

43 100

58 47.4 31.8 47.8



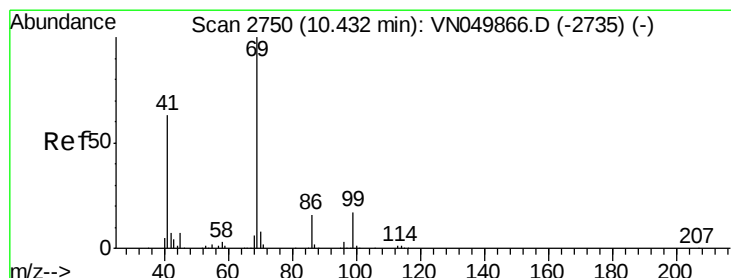
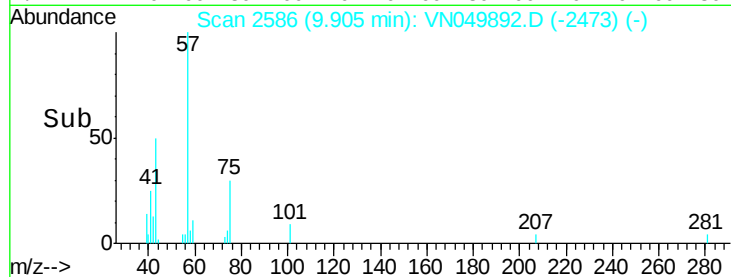
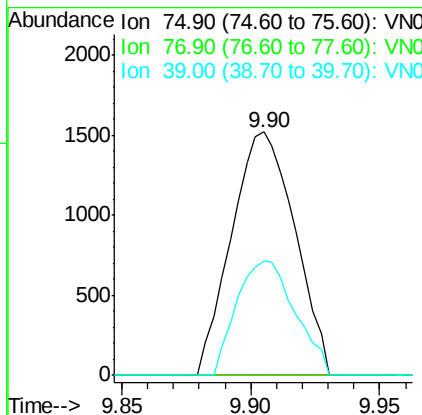
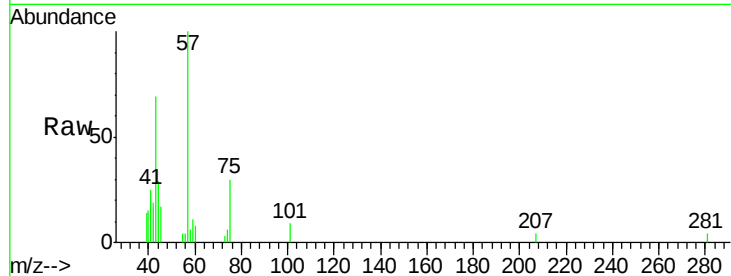


#54

cis-1,3-Dichloropropene
 Concen: 0.21 ug/l
 RT: 9.90 min Scan# 2586
 Delta R.T. 0.06 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Instrument :
 MSVOA_N
 ClientSampleId :

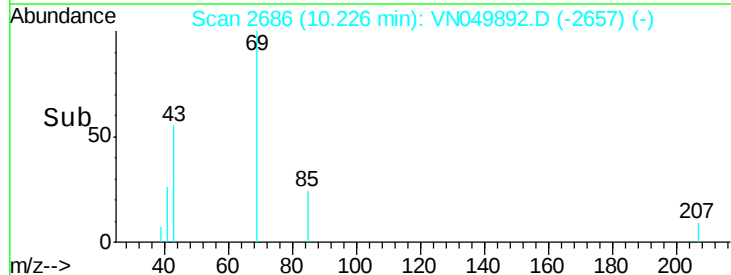
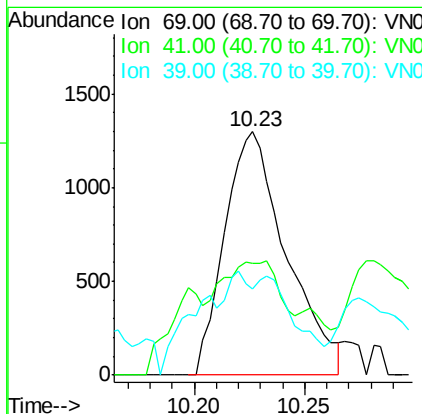
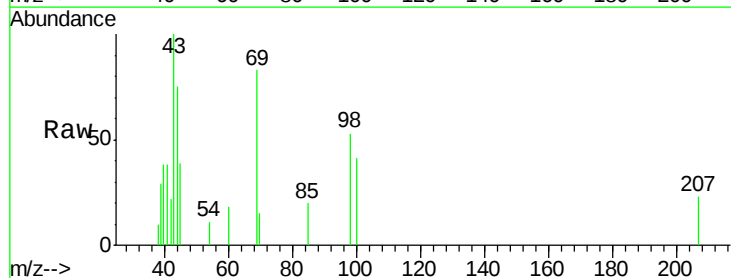
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.3	37.9#
39	46.8	35.5	53.3

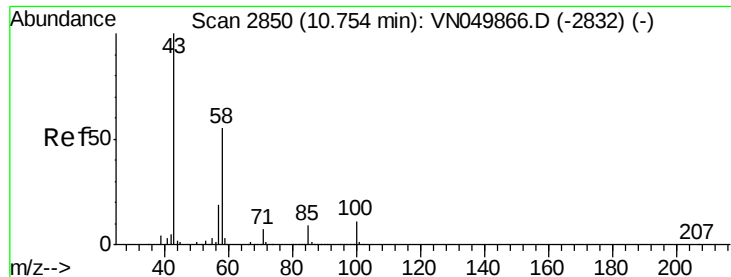


#56

Ethyl methacrylate
 Concen: 2.38 ug/l
 RT: 10.23 min Scan# 2686
 Delta R.T. -0.21 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Tgt Ion	Ratio	Lower	Upper
69	100		
41	23.2	51.6	77.4#
39	4.8	25.8	38.8#





#59

2-Hexanone

Concen: 4.88 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

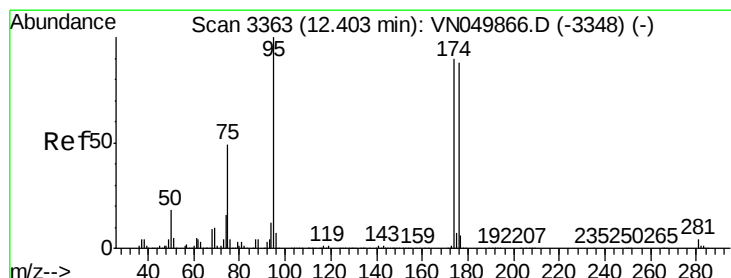
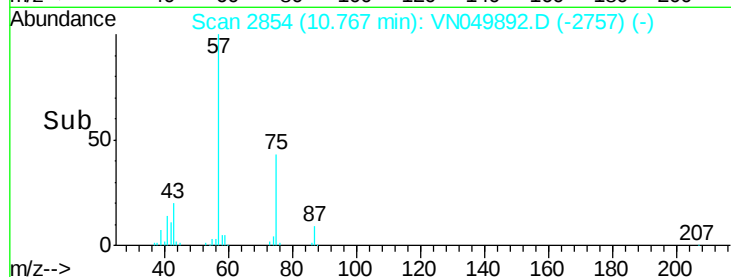
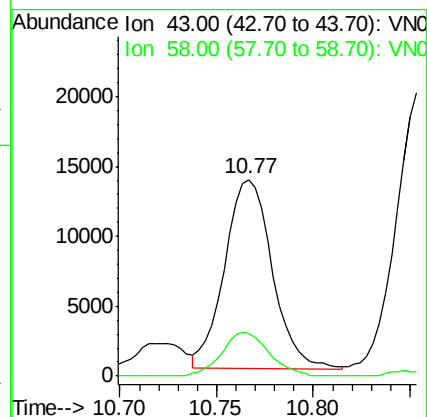
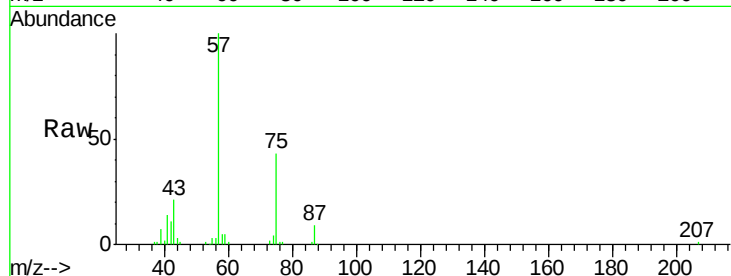
ClientSampleId :

Tot Ion: 43 Resp: 23155

Ion Ratio Lower Upper

43 100

58 23.1 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 33.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

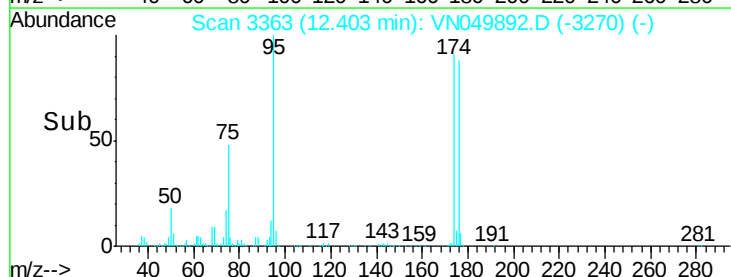
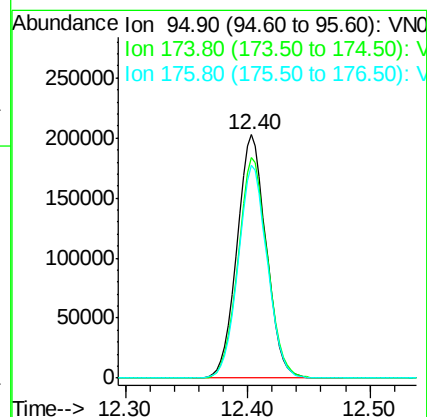
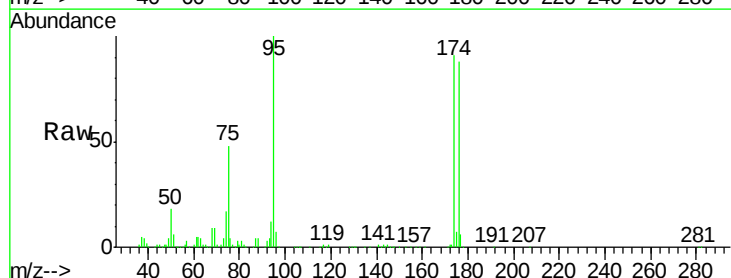
Tgt Ion: 95 Resp: 336454

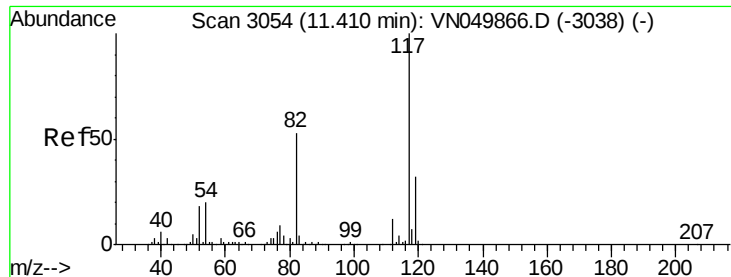
Ion Ratio Lower Upper

95 100

174 90.9 0.0 179.6

176 87.0 0.0 174.0

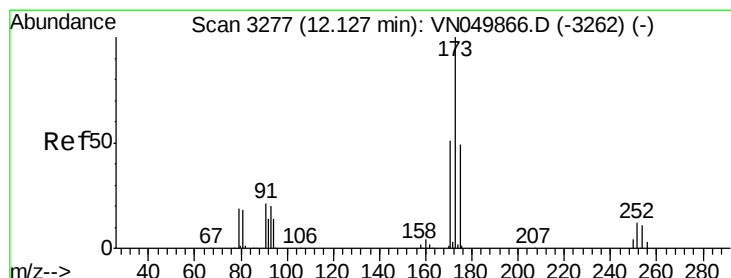
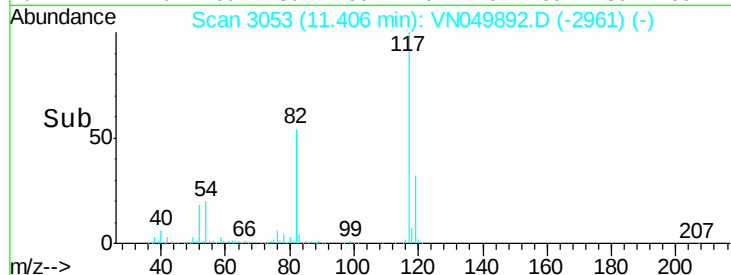
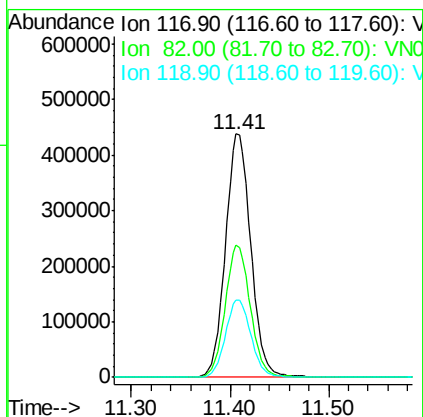
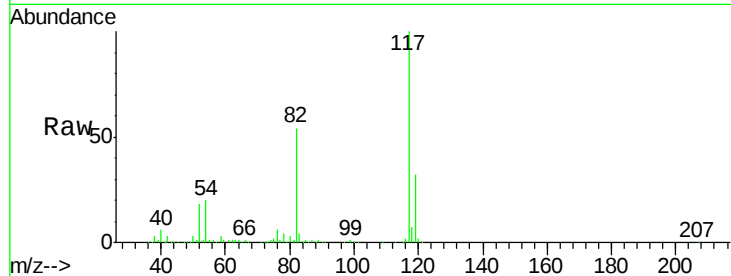




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049892.D
Acq: 19 Jul 2018 00:33

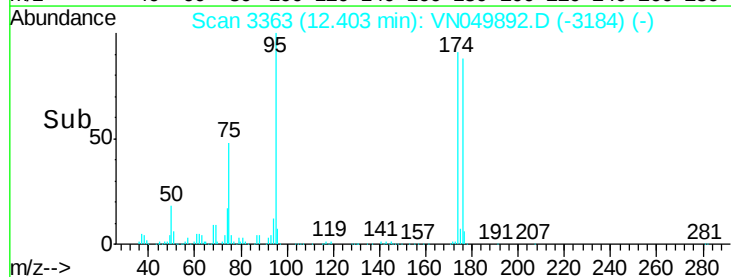
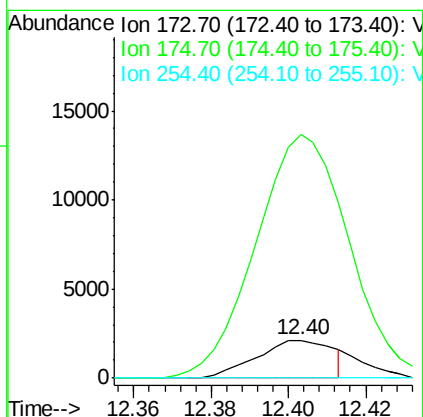
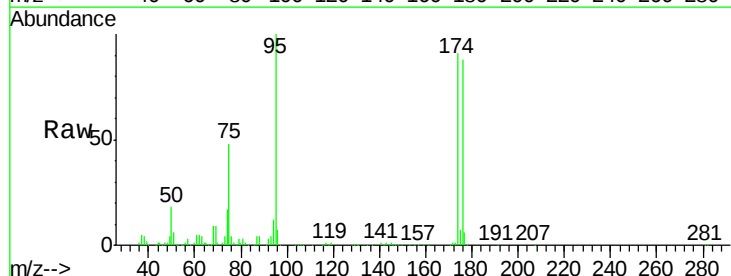
Instrument :
MSVOA_N
ClientSampled :

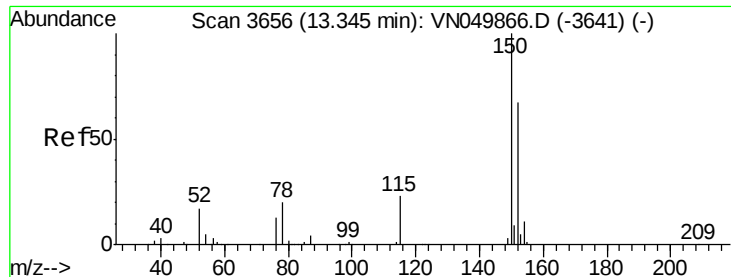
Tot Ion:117 Resp: 788173
Ion Ratio Lower Upper
117 100
82 54.4 41.9 62.9
119 31.9 25.4 38.2



#71
Bromoform
Concen: 0.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049892.D
Acq: 19 Jul 2018 00:33

Tgt Ion:173 Resp: 2933
Ion Ratio Lower Upper
173 100
175 650.4 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

ClientSampleId :

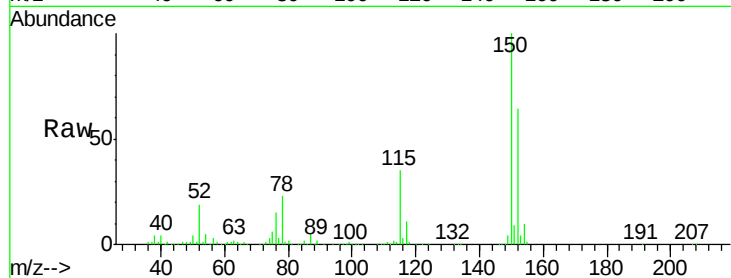
Tot Ion:152 Resp: 275323

Ion Ratio Lower Upper

152 100

115 55.8 28.1 84.2

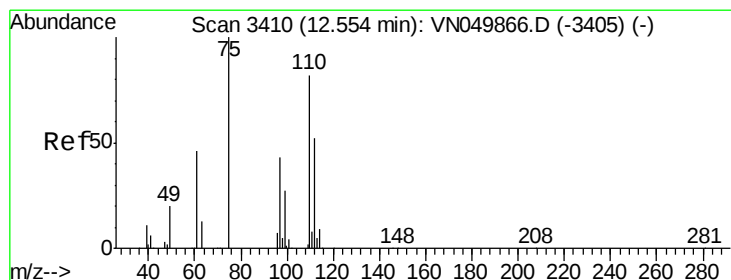
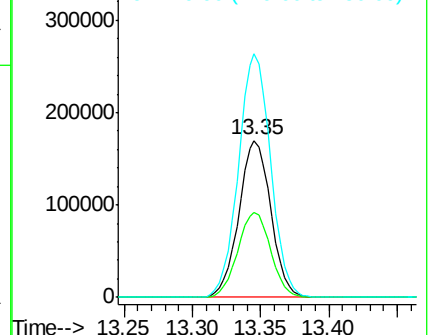
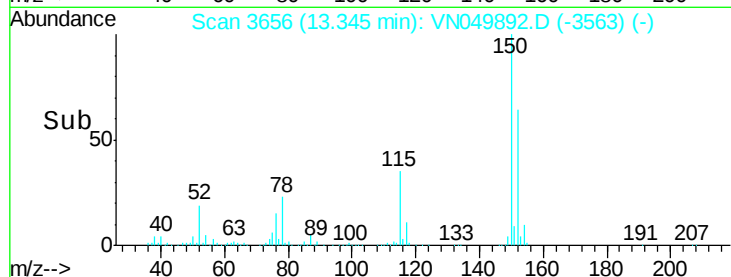
150 156.6 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 31.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049892.D

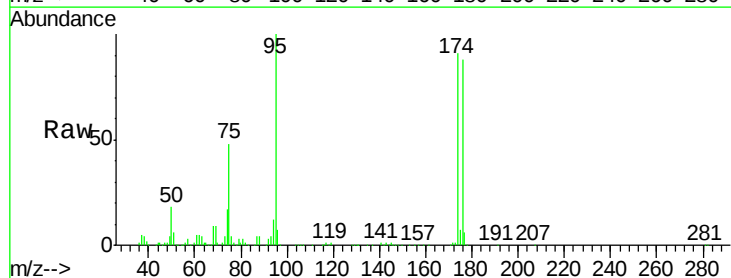
Acq: 19 Jul 2018 00:33

Tgt Ion: 75 Resp: 163497

Ion Ratio Lower Upper

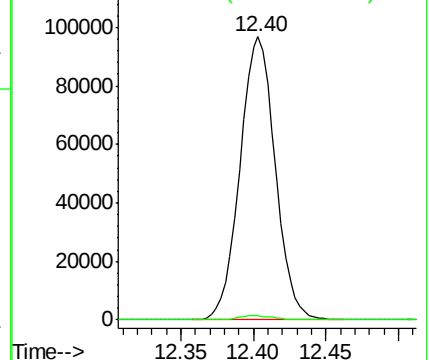
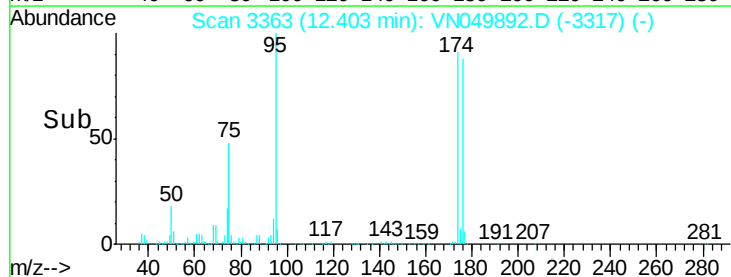
75 100

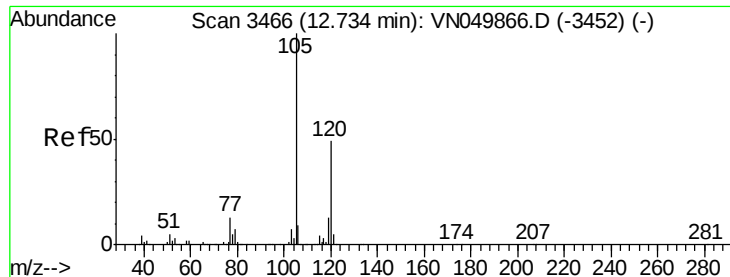
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.29 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

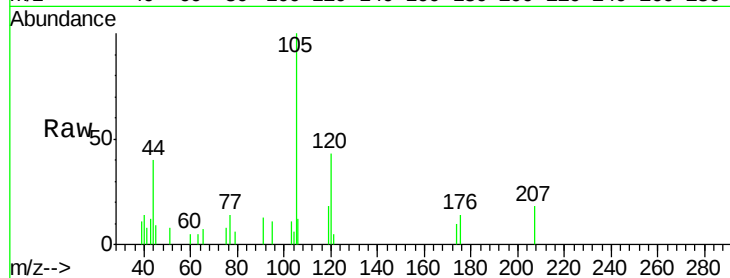
ClientSampleId :

Tot Ion:105 Resp: 4817

Ion Ratio Lower Upper

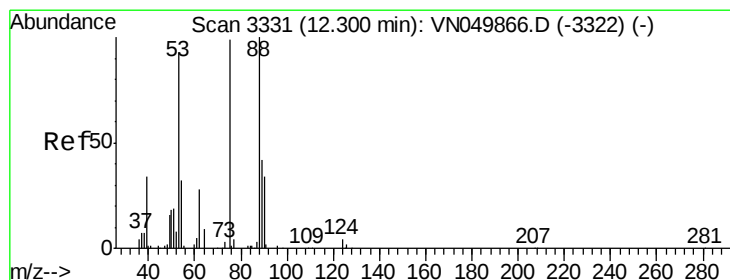
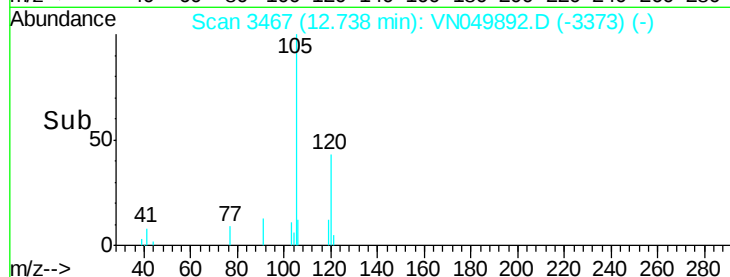
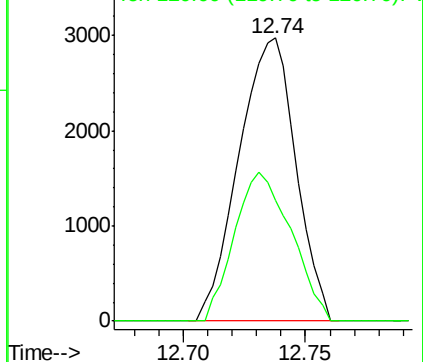
105 100

120 52.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 98.99 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

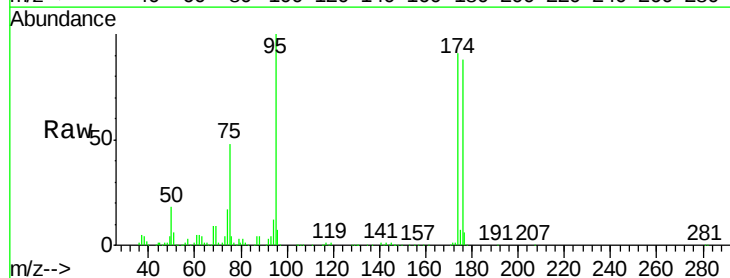
Tgt Ion: 75 Resp: 163497

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

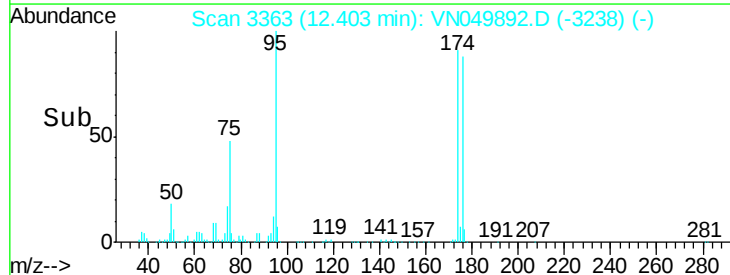
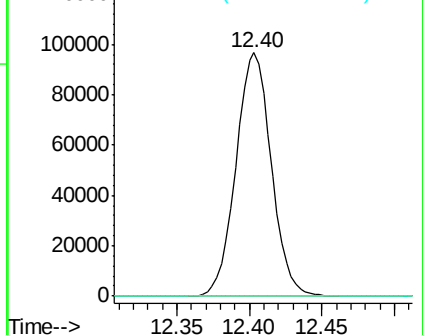
89 0.0 35.9 53.9#

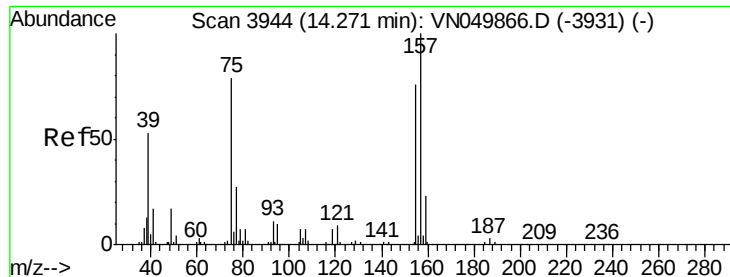


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.40 ug/l

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

Instrument :

MSVOA_N

ClientSampleId :

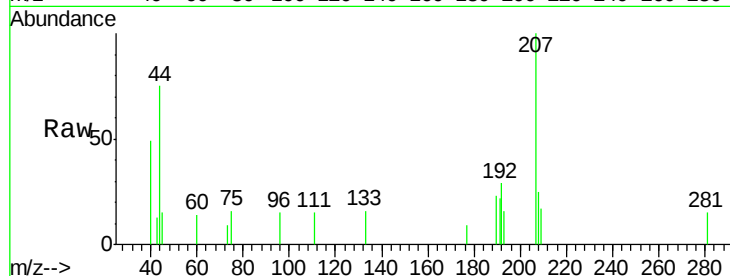
Tot Ion: 75 Resp: 385

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#

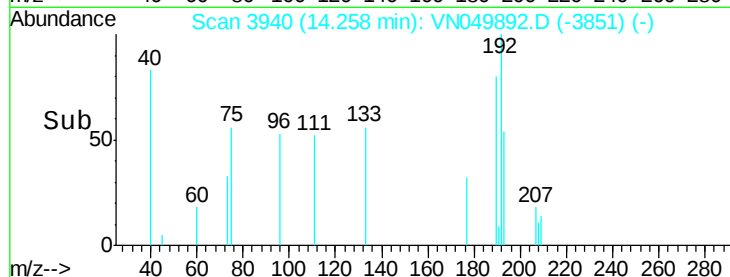


Abundance Ion 74.90 (74.60 to 75.60): VN049892.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049892.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049892.D (-3851) (-)

Time-->

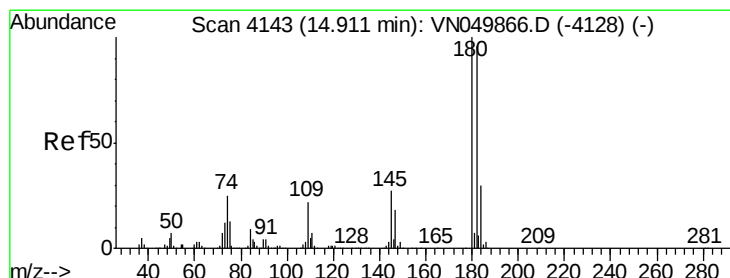


Abundance Ion 74.90 (74.60 to 75.60): VN049892.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049892.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049892.D (-3851) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.64 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN049892.D

Acq: 19 Jul 2018 00:33

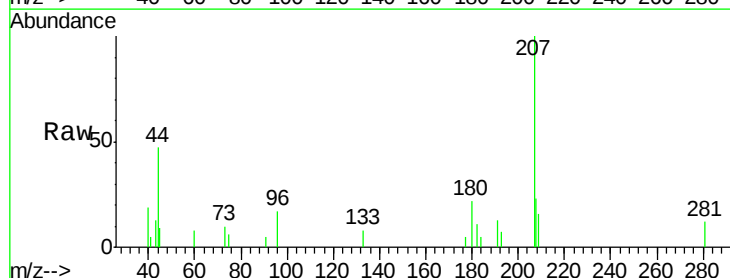
Tgt Ion: 180 Resp: 956

Ion Ratio Lower Upper

180 100

182 62.9 47.3 141.9

145 9.7 14.4 43.0#

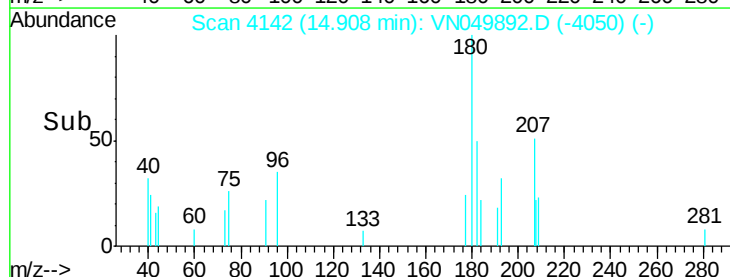


Abundance Ion 179.80 (179.50 to 180.50): VN049892.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049892.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049892.D (-4050) (-)

Time-->

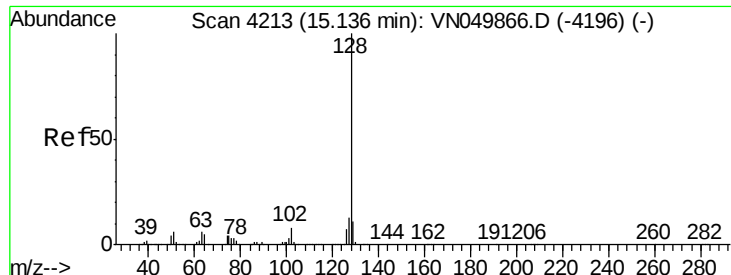


Abundance Ion 179.80 (179.50 to 180.50): VN049892.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049892.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049892.D (-4050) (-)

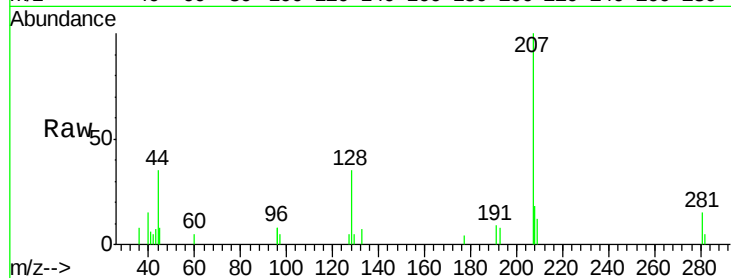
Time-->



#95
 Naphthalene
 Concen: 4.64 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049892.D
 Acq: 19 Jul 2018 00:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.4	15.6#
129	3.2	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

