

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101618\
 Data File : VN051889.D
 Acq On : 16 Oct 2018 12:24
 Operator : MD\SY
 Sample : J5198-20
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-E

Quant Time: Oct 17 02:23:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	852746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1226534	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1085215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	444305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	461838	56.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.32%	
35) Dibromofluoromethane	7.59	113	450257	59.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.08%	
50) Toluene-d8	10.09	98	1684426	59.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.54%	
62) 4-Bromofluorobenzene	12.40	95	503952	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	

Target Compounds

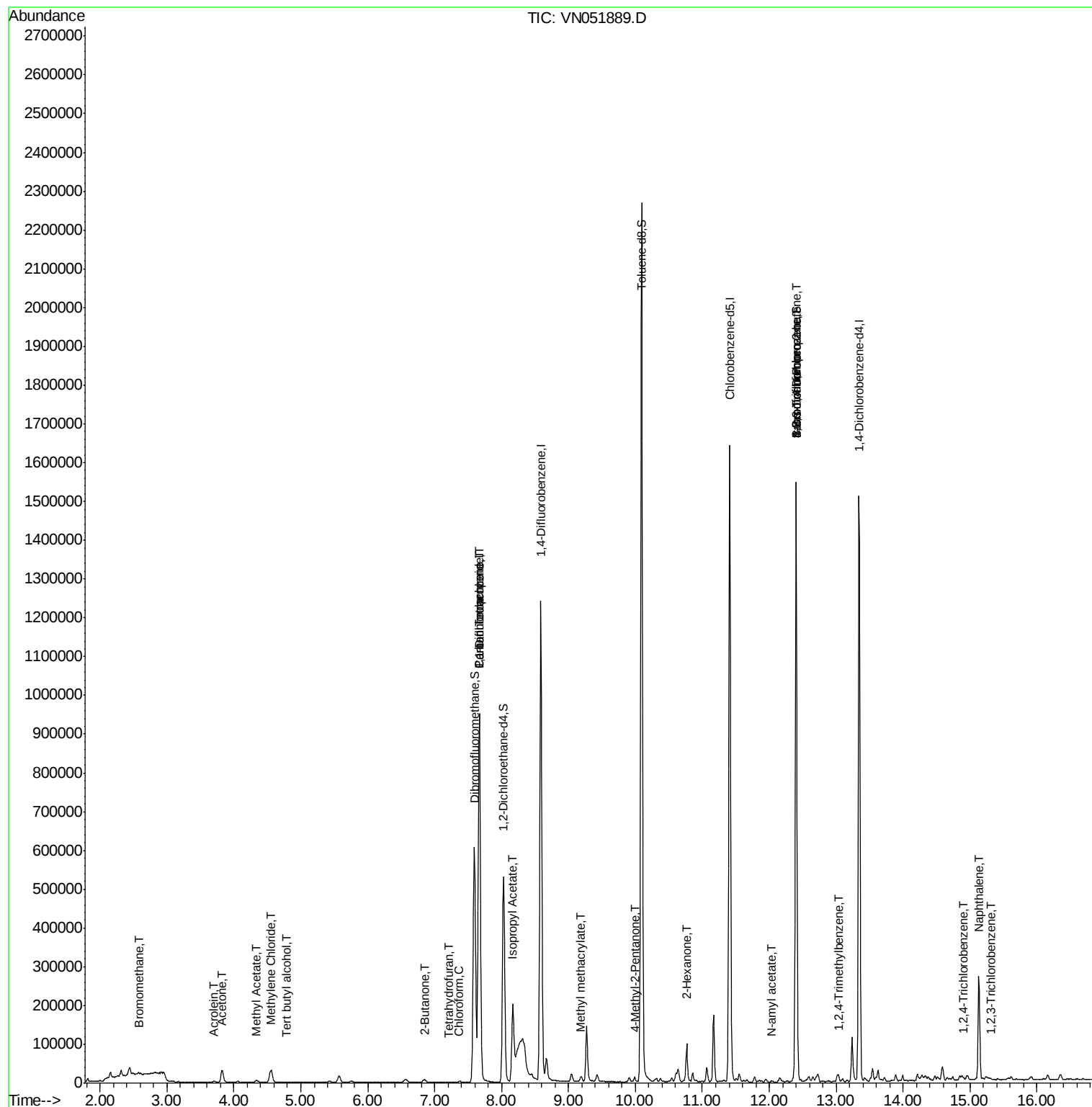
						Qvalue
5) Bromomethane	2.57	94	2213	0.285	ug/l	88
11) Tert butyl alcohol	4.78	59	2387	3.982	ug/l #	79
13) Acrolein	3.70	56	29	15.985	ug/l #	1
16) Acetone	3.82	43	52556	29.899	ug/l	96
18) Methyl Acetate	4.33	43	8792	0.839	ug/l #	90
20) Methylene Chloride	4.56	84	27516	3.782	ug/l	90
25) 2-Butanone	6.85	43	10363	4.172	ug/l	98
29) Tetrahydrofuran	7.22	42	713	0.482	ug/l #	60
30) Chloroform	7.37	83	3583	0.257	ug/l	96
31) Cyclohexane	7.67	56	14677	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	52339	5.271	ug/l #	51
38) Carbon Tetrachloride	7.67	117	75035	6.519	ug/l #	16
43) Isopropyl Acetate	8.17	43	259082	25.194	ug/l	95
48) Methyl methacrylate	9.19	41	6581	1.449	ug/l #	26
51) 4-Methyl-2-Pentanone	9.99	43	8083	1.527	ug/l	99
59) 2-Hexanone	10.77	43	15048	4.048	ug/l	71
71) Bromoform	12.40	173	4021	4.146	ug/l #	1
74) N-amyl acetate	12.04	43	2108	0.310	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	256375	46.739	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	256375	132.877	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	7239	0.261	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	417	3.706	ug/l #	60
95) Naphthalene	15.13	128	243420	17.960	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	522	2.925	ug/l #	1

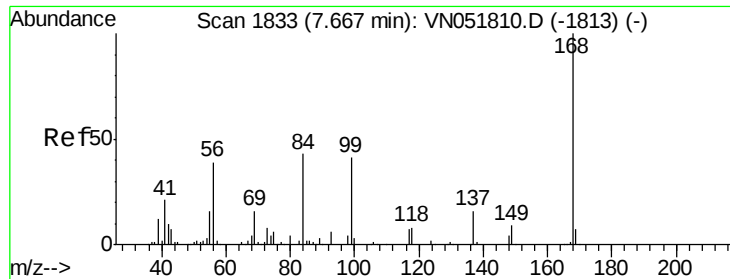
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 09:51:20 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: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

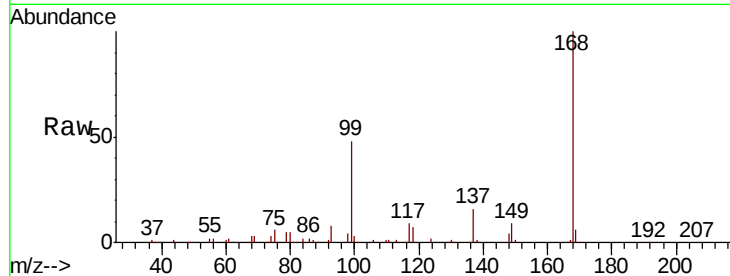
CL-02-101218-E

Tgt Ion:168 Resp: 852746

Ion Ratio Lower Upper

168 100

99 48.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

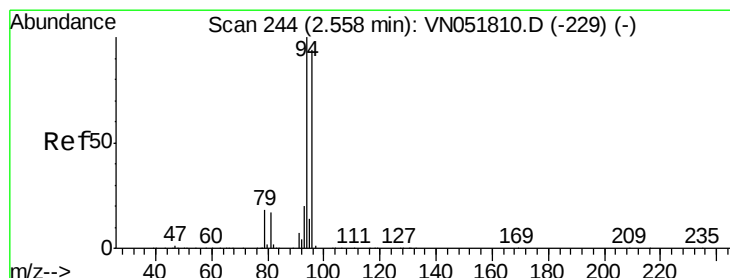
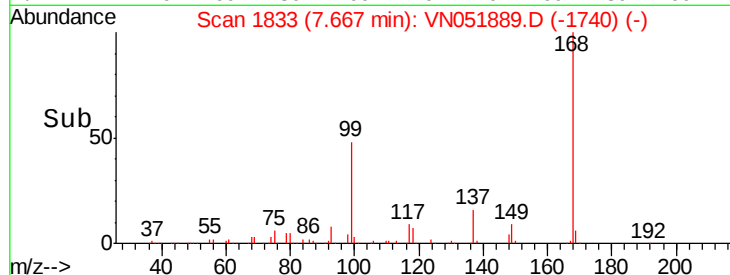
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.285 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051889.D

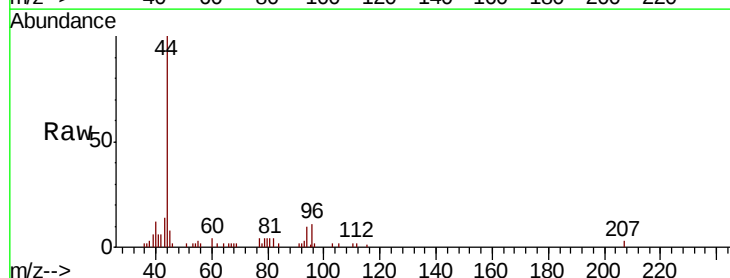
Acq: 16 Oct 2018 12:24

Tgt Ion: 94 Resp: 2213

Ion Ratio Lower Upper

94 100

96 107.1 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

1200

1000

800

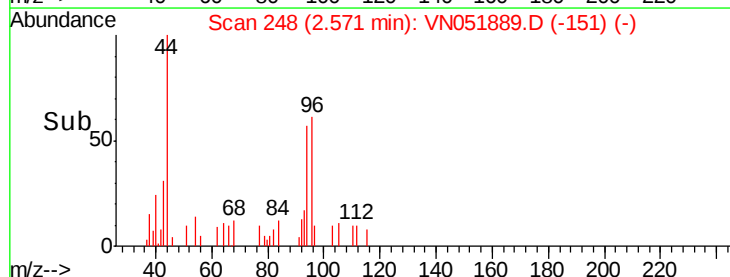
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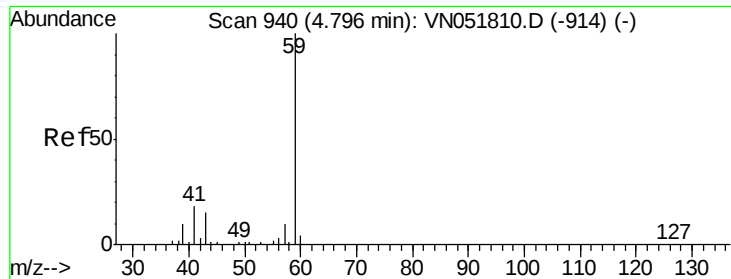
400

200

0

Time-->

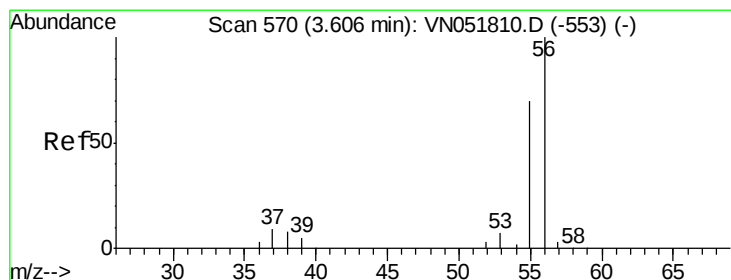
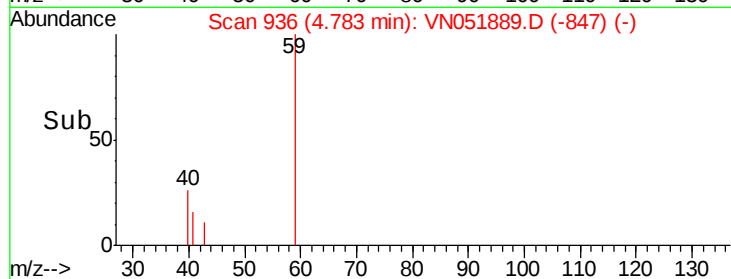
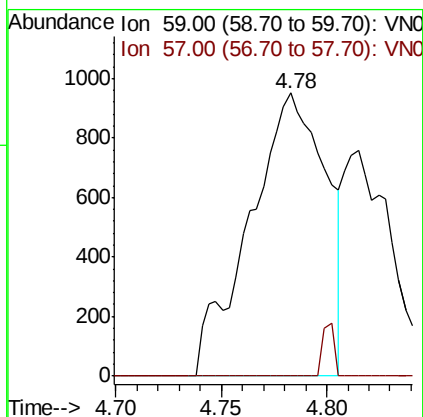
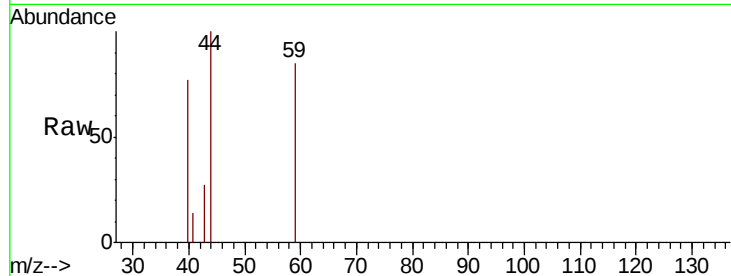




#11
Tert butyl alcohol
Concen: 3.982 ug/l
RT: 4.78 min Scan# 936
Delta R.T. -0.01 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

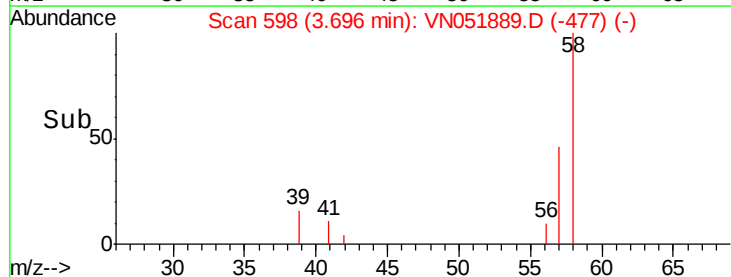
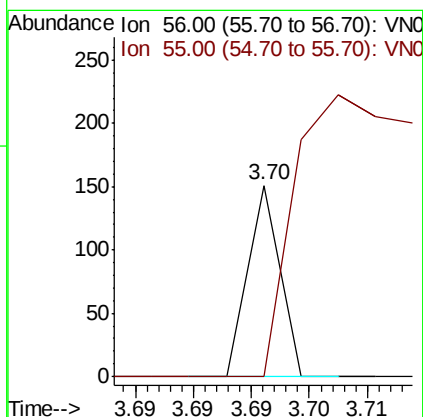
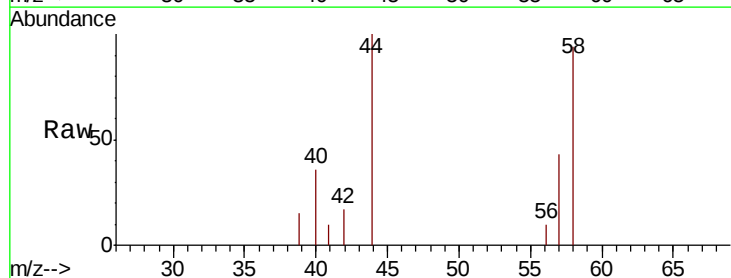
Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-E

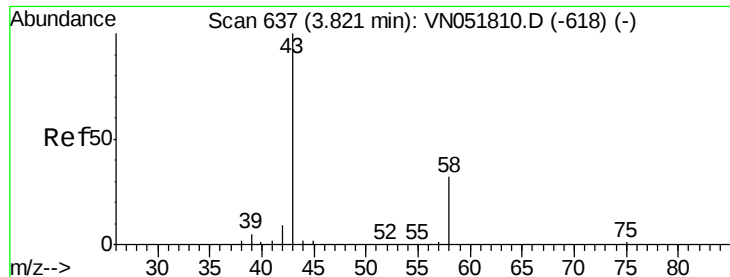
Tgt Ion: 59 Resp: 2387
Ion Ratio Lower Upper
59 100
57 2.7 8.3 12.5#



#13
Acrolein
Concen: 15.985 ug/l
RT: 3.70 min Scan# 598
Delta R.T. 0.09 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion: 56 Resp: 29
Ion Ratio Lower Upper
56 100
55 803.4 57.7 86.5#





#16

Acetone

Concen: 29.899 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

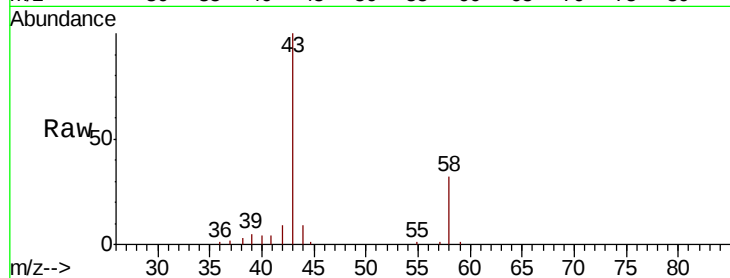
CL-02-101218-E

Tgt Ion: 43 Resp: 52556

Ion Ratio Lower Upper

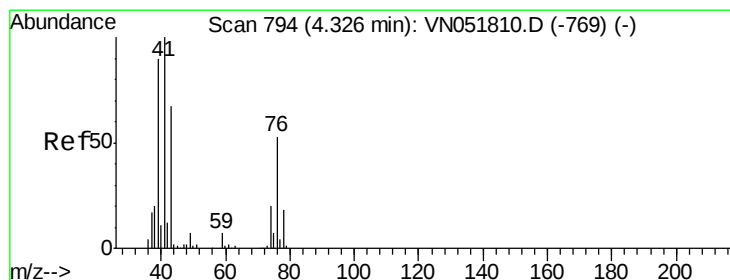
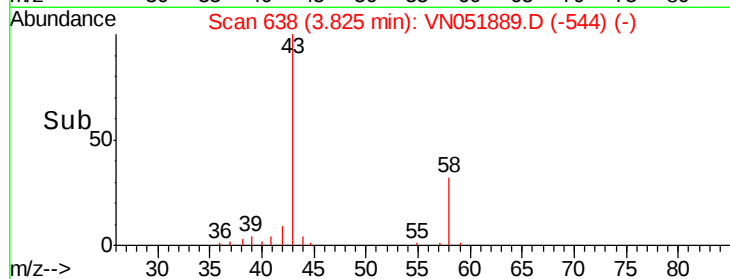
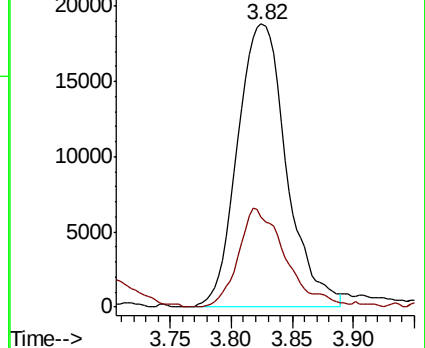
43 100

58 32.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.839 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051889.D

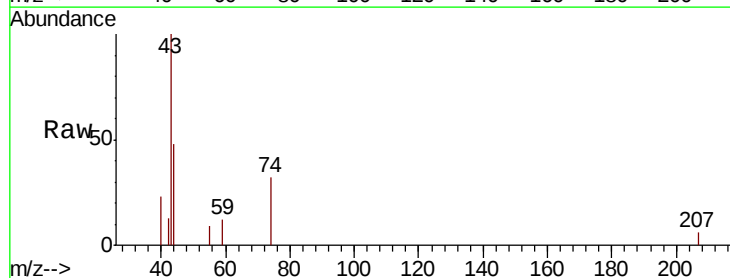
Acq: 16 Oct 2018 12:24

Tgt Ion: 43 Resp: 8792

Ion Ratio Lower Upper

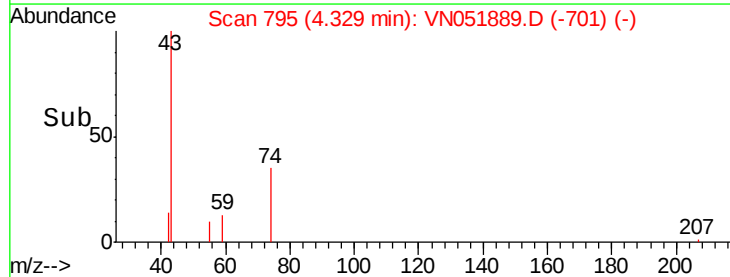
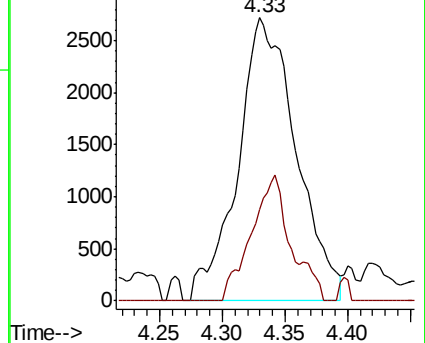
43 100

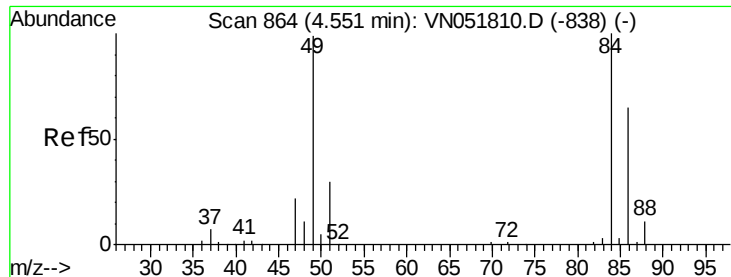
74 29.9 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

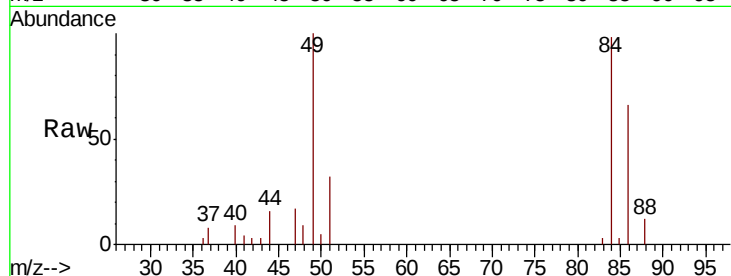




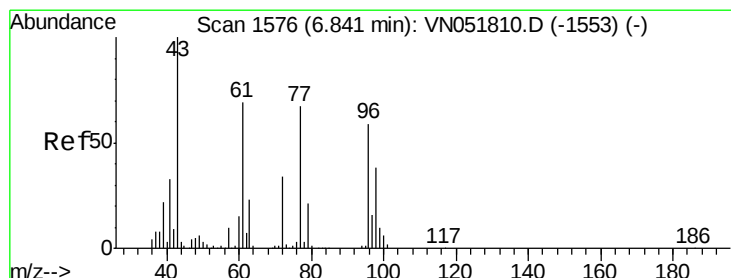
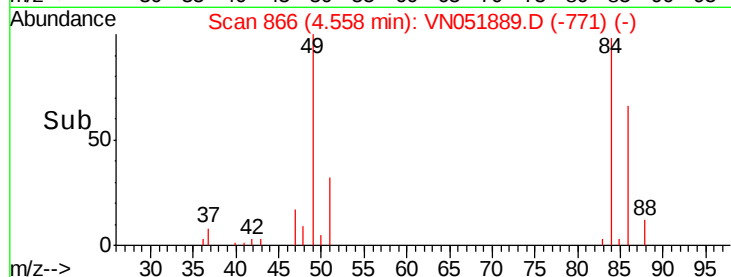
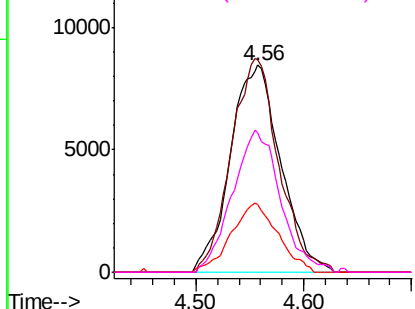
#20
Methylene Chloride
Concen: 3.782 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Instrument :
MSVOA_N
ClientSampled :
CL-02-101218-E

Tgt Ion:	84	Resp:	27516
Ion	Ratio	Lower	Upper
84	100		
49	102.4	93.2	139.8
51	32.6	29.0	43.6
86	67.4	49.8	74.8

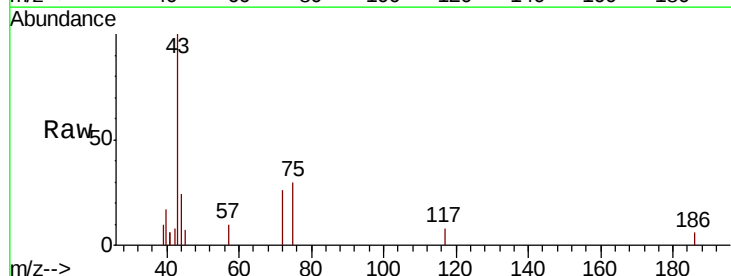


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

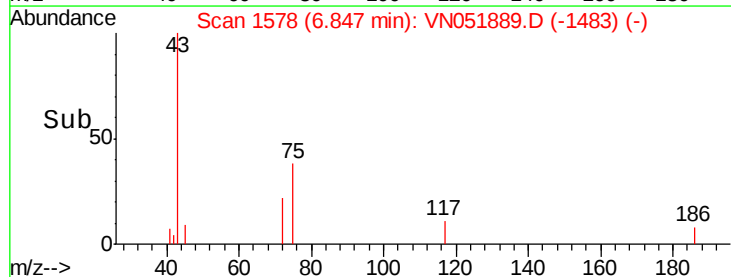
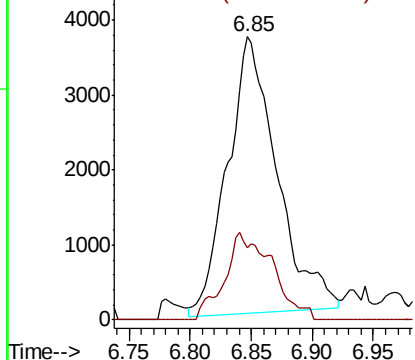


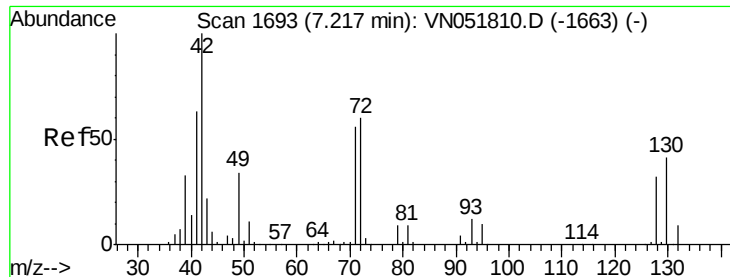
#25
2-Butanone
Concen: 4.172 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion:	43	Resp:	10363
Ion	Ratio	Lower	Upper
43	100		
72	26.8	22.3	33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.482 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-E

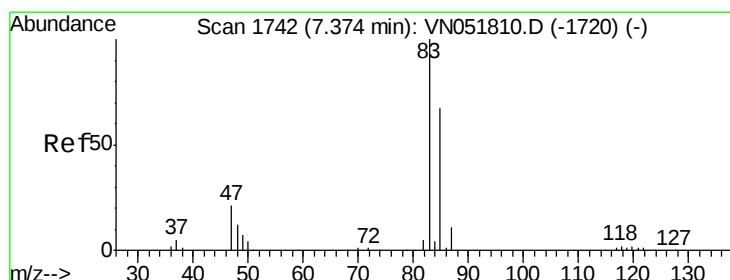
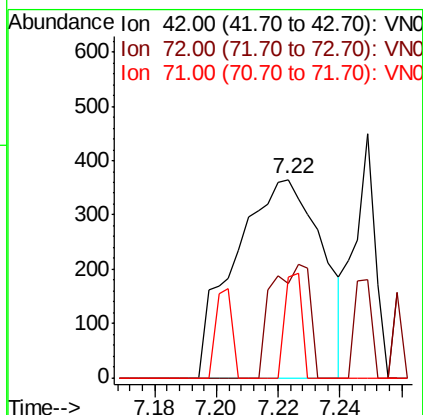
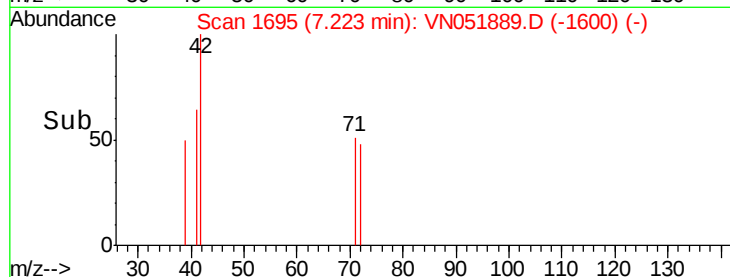
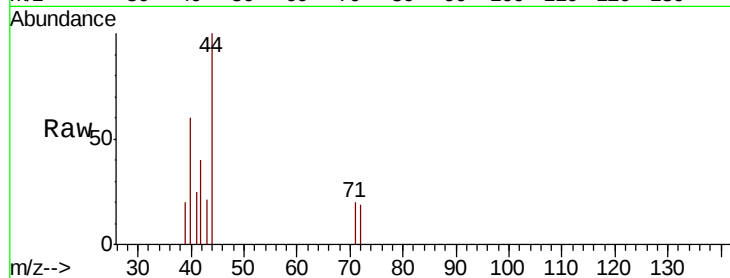
Tgt Ion: 42 Resp: 713

Ion Ratio Lower Upper

42 100

72 25.2 35.5 53.3#

71 10.2 33.7 50.5#



#30

Chloroform

Concen: 0.257 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051889.D

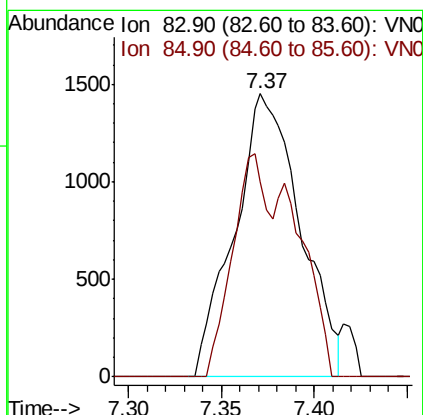
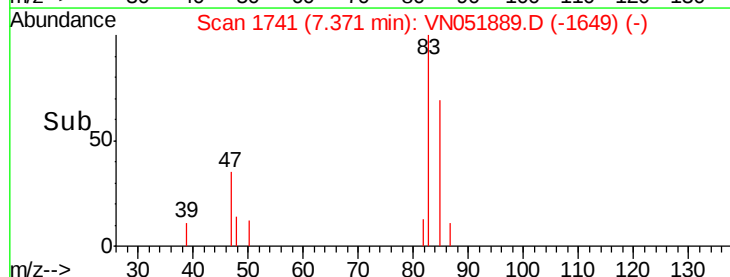
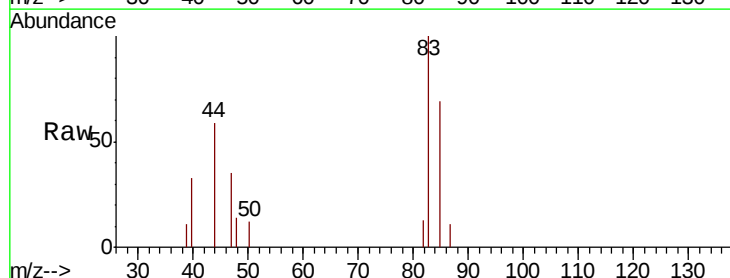
Acq: 16 Oct 2018 12:24

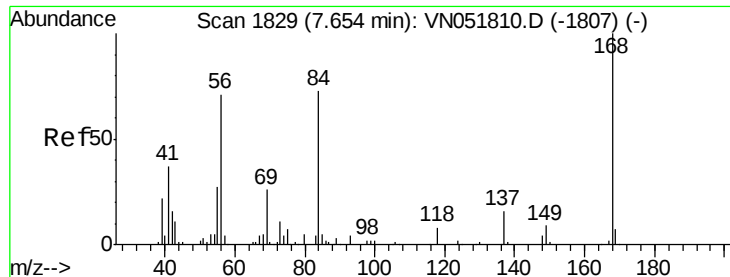
Tgt Ion: 83 Resp: 3583

Ion Ratio Lower Upper

83 100

85 68.8 52.2 78.4

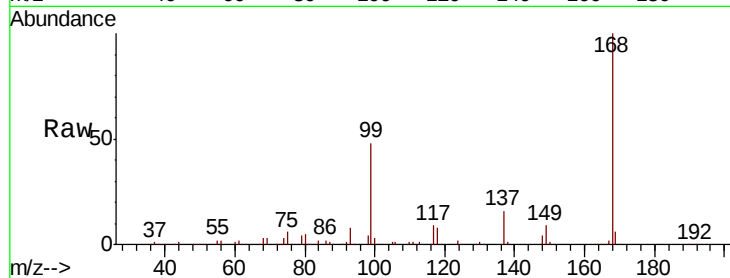




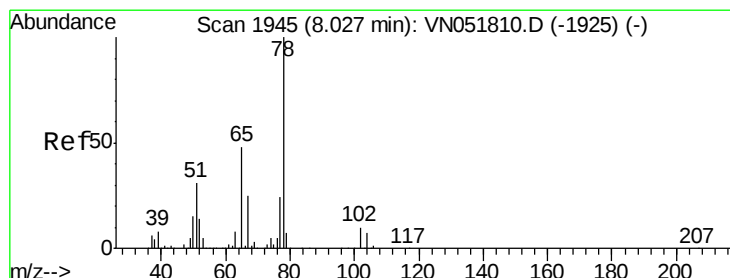
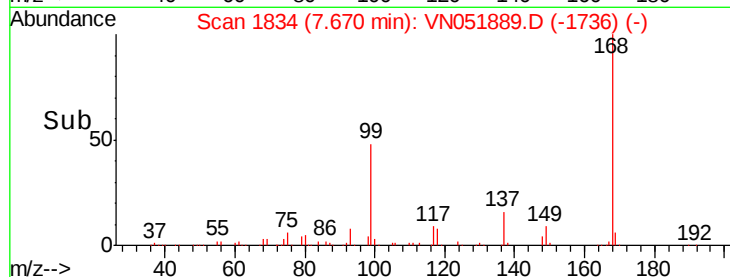
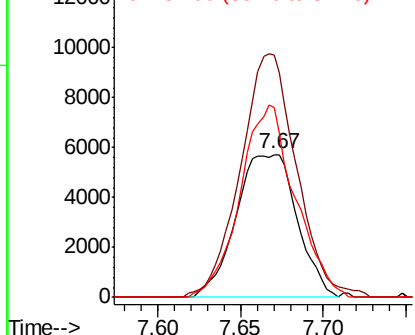
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-E

Tgt Ion: 56 Resp: 14677
Ion Ratio Lower Upper
56 100
69 166.9 26.2 39.4#
84 133.5 68.3 102.5#

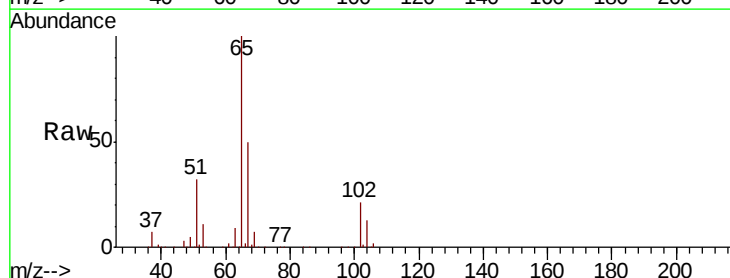


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

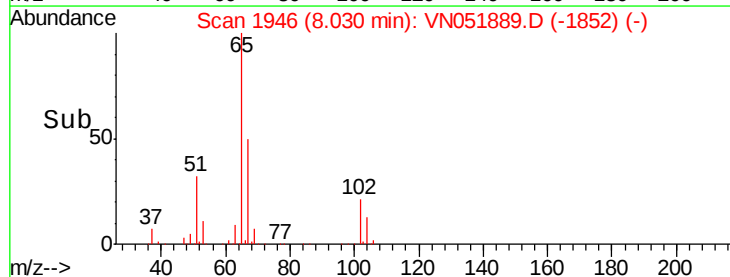
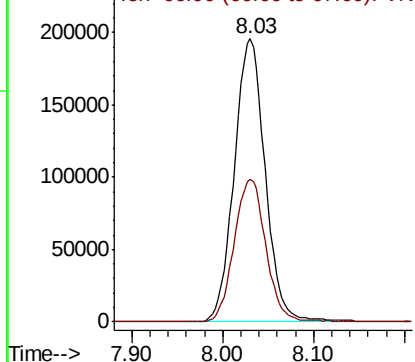


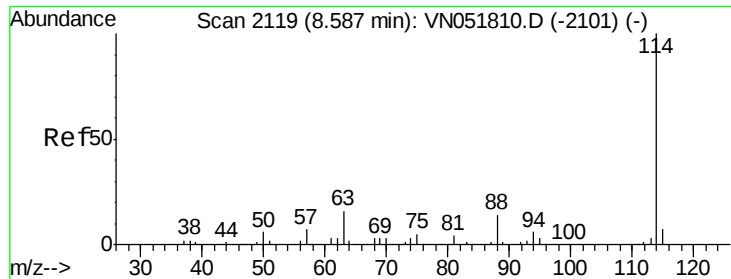
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion: 65 Resp: 461838
Ion Ratio Lower Upper
65 100
67 51.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

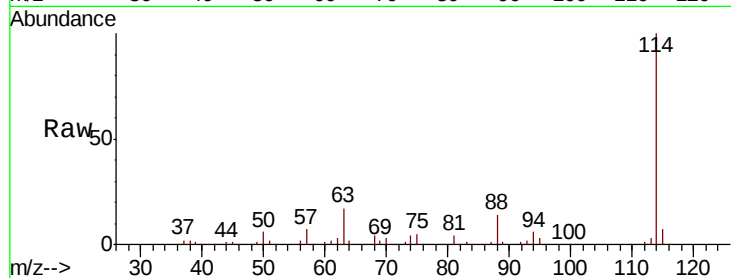




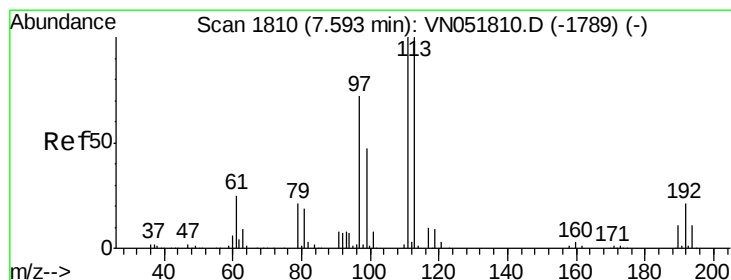
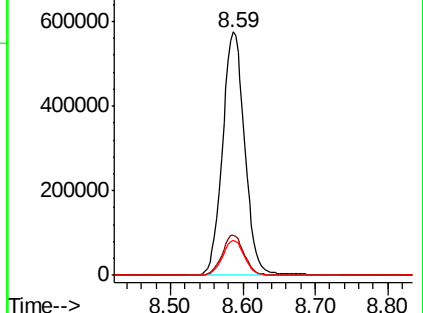
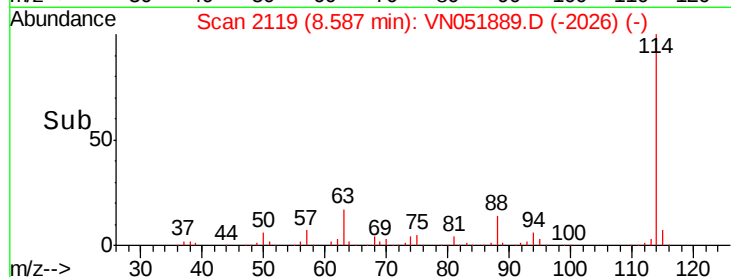
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051889.D
 Acq: 16 Oct 2018 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-E

Tgt Ion:114 Resp: 1226534
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 38.6
 88 14.3 0.0 30.6

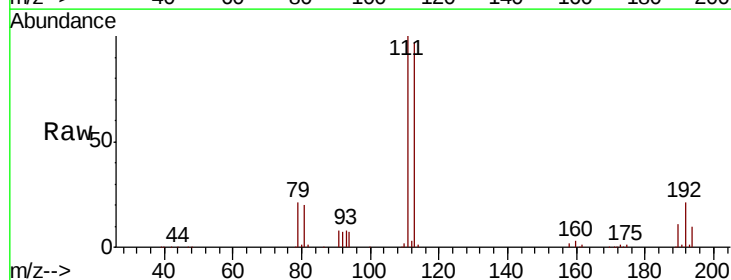


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

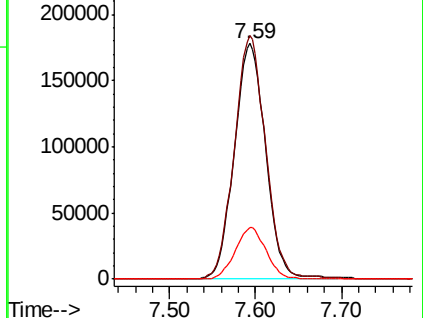
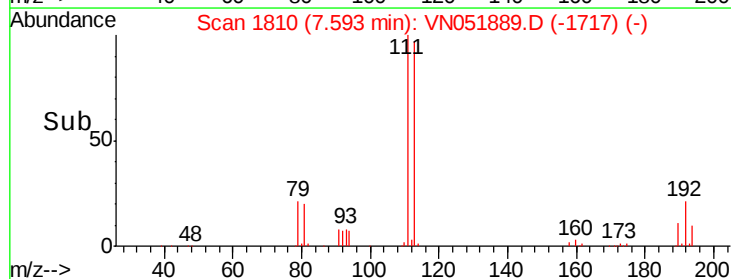


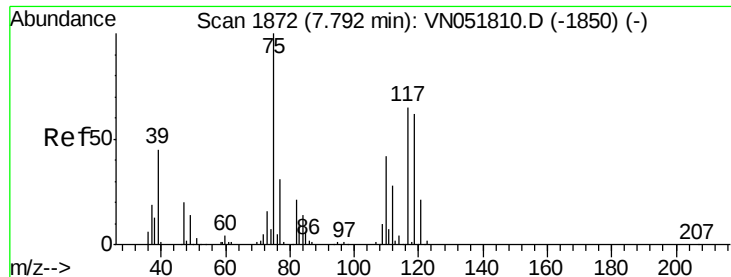
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051889.D
 Acq: 16 Oct 2018 12:24

Tgt Ion:113 Resp: 450257
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.6 123.8
 192 21.4 18.0 27.0



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

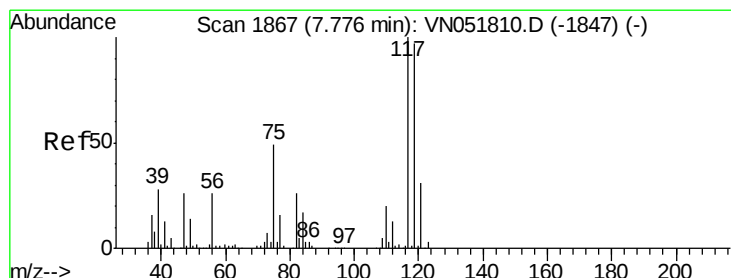
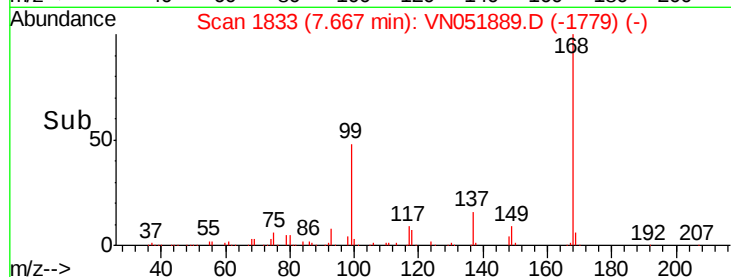
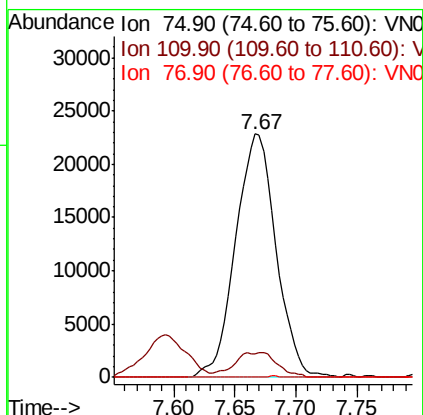
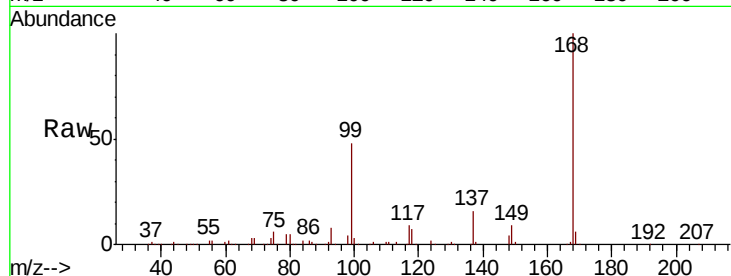




#36
 1,1-Dichloropropene
 Concen: 5.271 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051889.D
 Acq: 16 Oct 2018 12:24

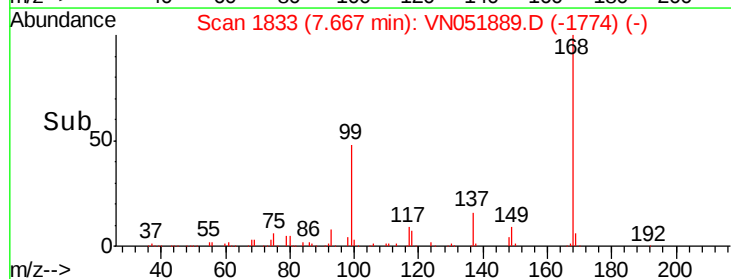
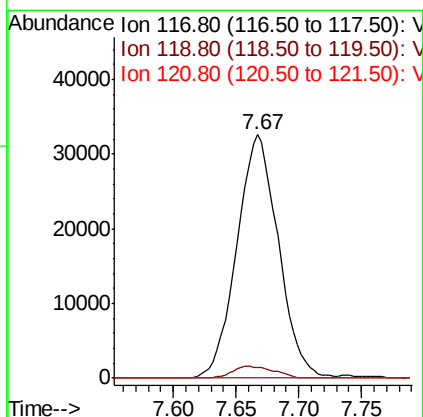
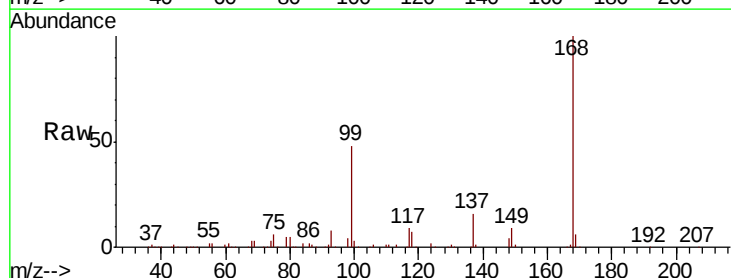
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-101218-E

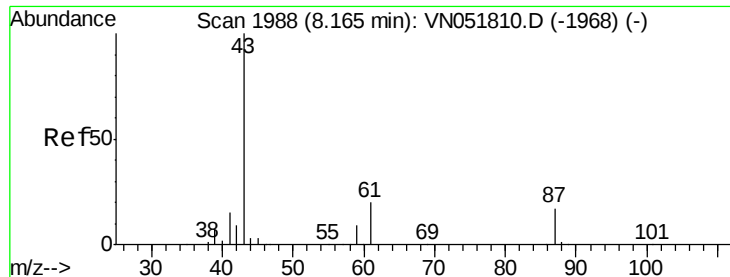
Tgt Ion: 75 Resp: 52339
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.2 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.519 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051889.D
 Acq: 16 Oct 2018 12:24

Tgt Ion: 117 Resp: 75035
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 25.194 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-E

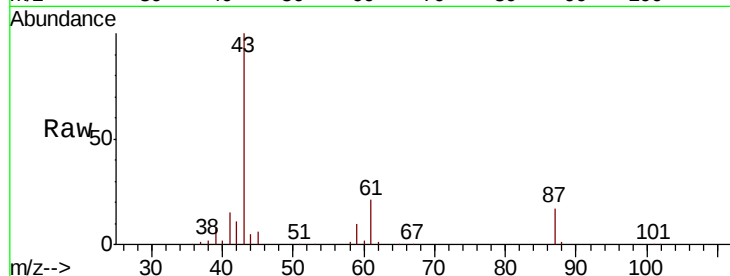
Tgt Ion: 43 Resp: 259082

Ion Ratio Lower Upper

43 100

61 18.7 17.5 26.3

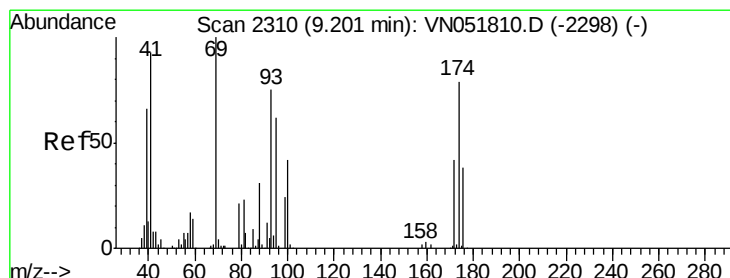
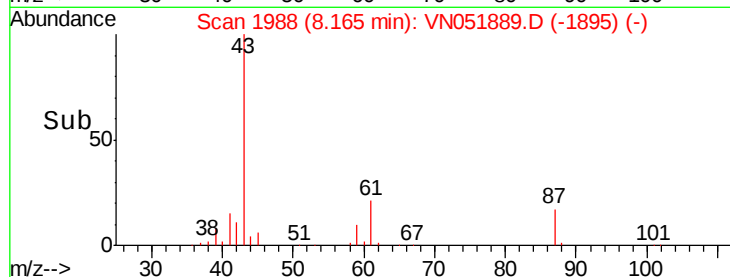
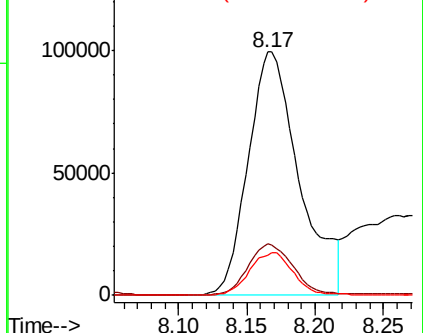
87 15.2 11.3 16.9



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



#48

Methyl methacrylate

Concen: 1.449 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

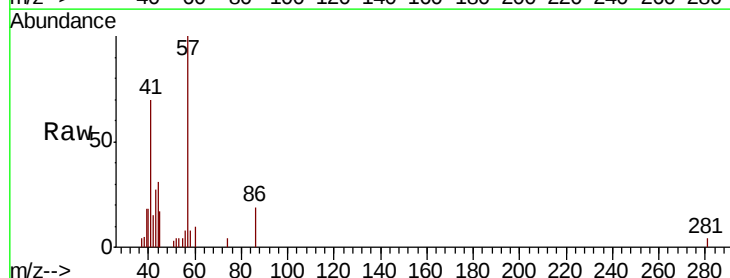
Tgt Ion: 41 Resp: 6581

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

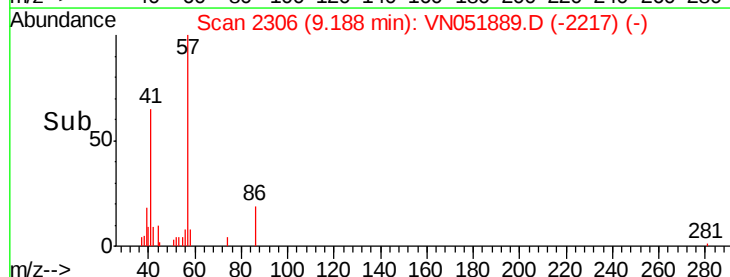
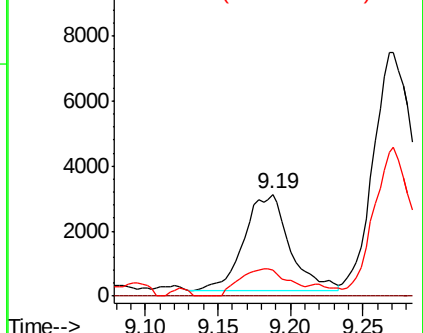
39 29.6 42.2 63.2#

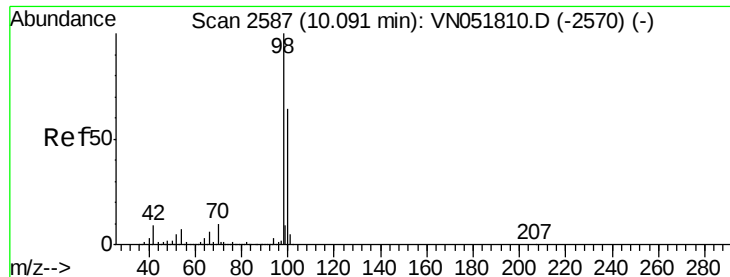


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

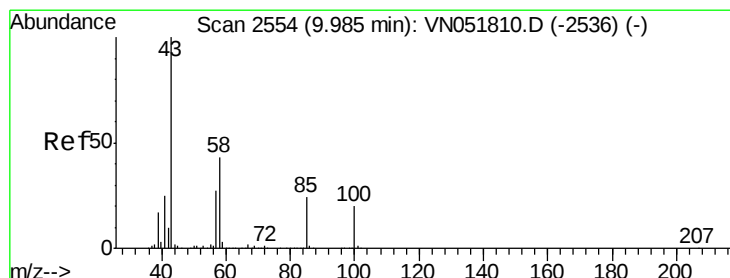
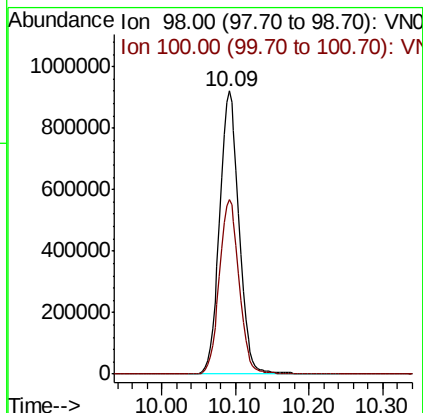
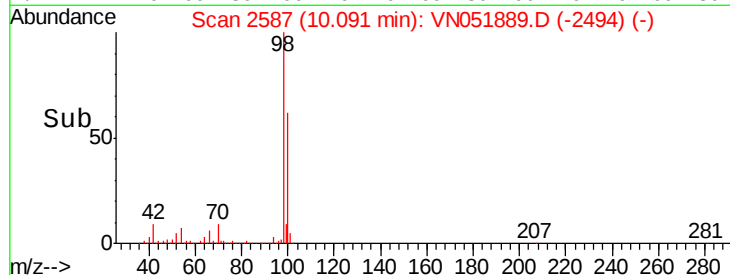
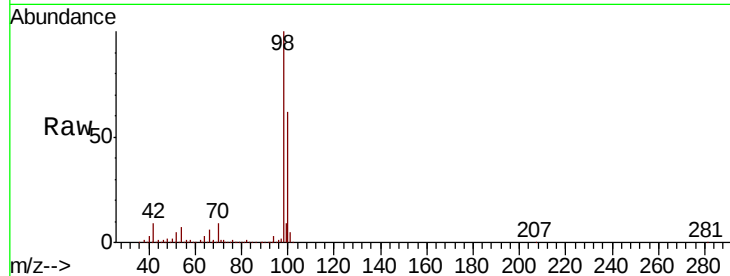
CL-02-101218-E

Tgt Ion: 98 Resp: 1684426

Ion Ratio Lower Upper

98 100

100 62.9 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 1.527 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051889.D

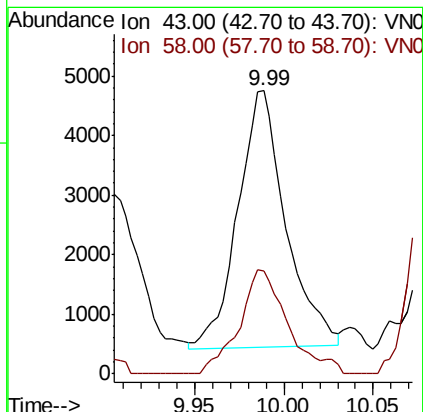
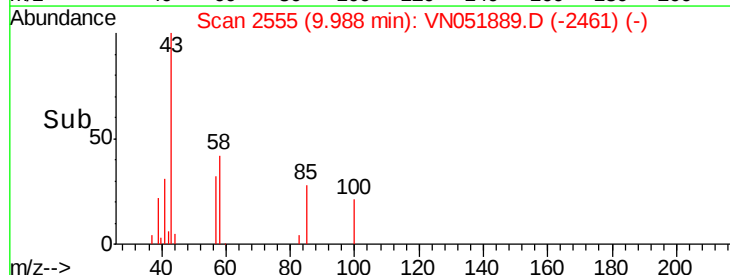
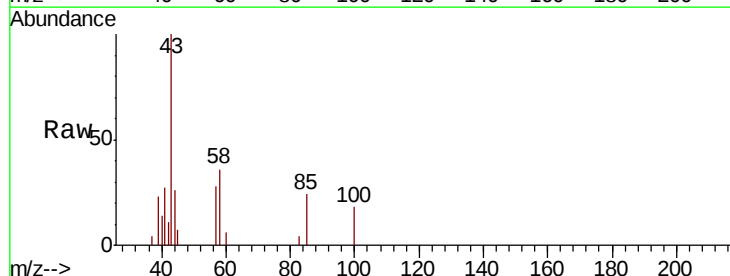
Acq: 16 Oct 2018 12:24

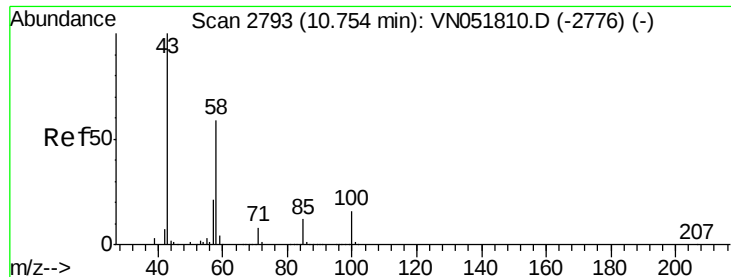
Tgt Ion: 43 Resp: 8083

Ion Ratio Lower Upper

43 100

58 41.2 32.4 48.6

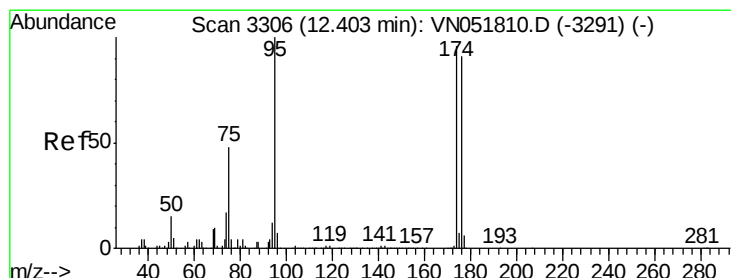
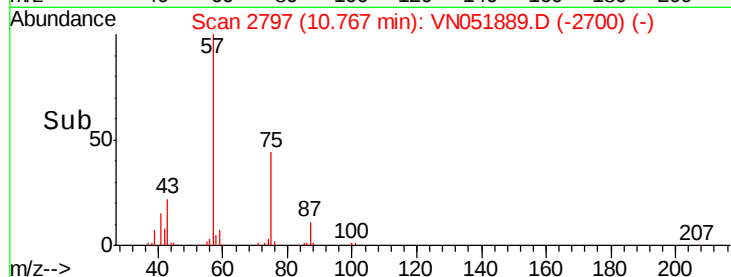
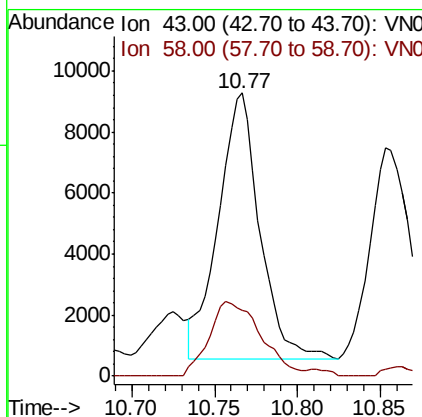
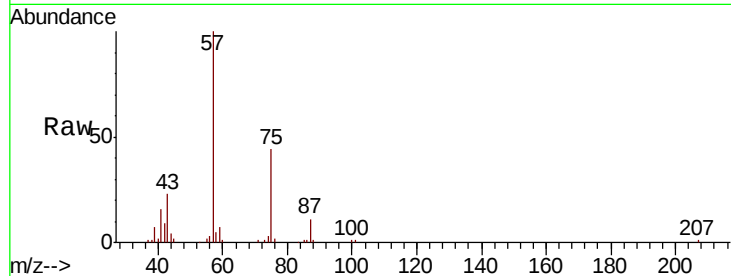




#59
2-Hexanone
Concen: 4.048 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

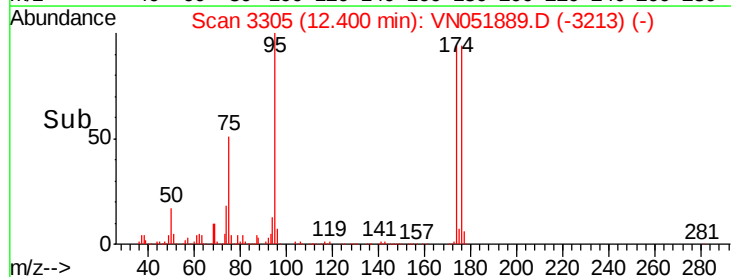
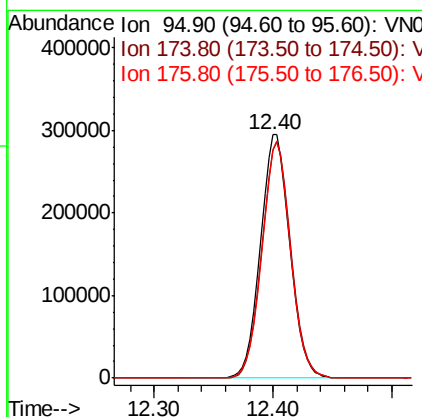
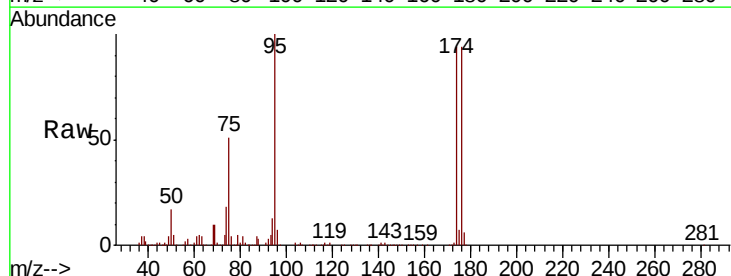
Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-E

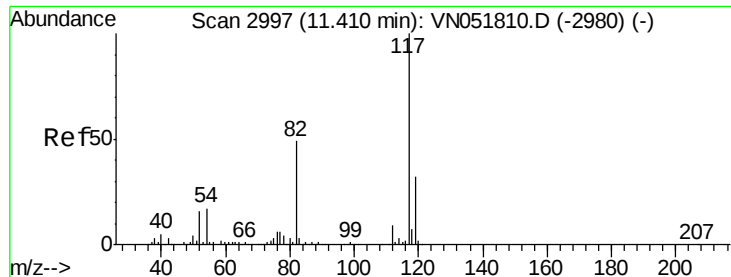
Tgt Ion: 43 Resp: 15048
Ion Ratio Lower Upper
43 100
58 35.2 28.3 85.0



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion: 95 Resp: 503952
Ion Ratio Lower Upper
95 100
174 95.8 0.0 183.0
176 94.0 0.0 178.8

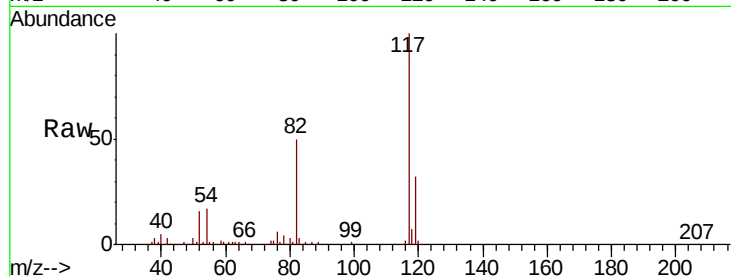




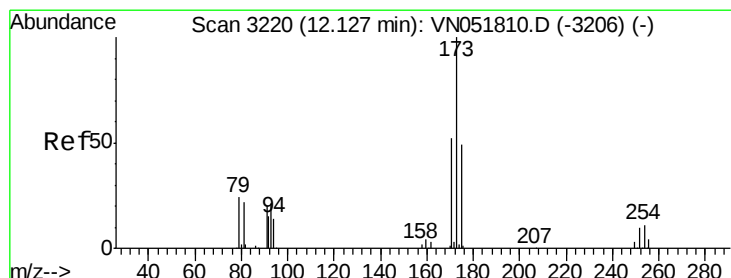
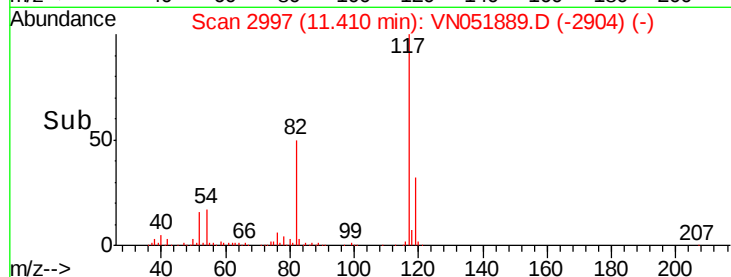
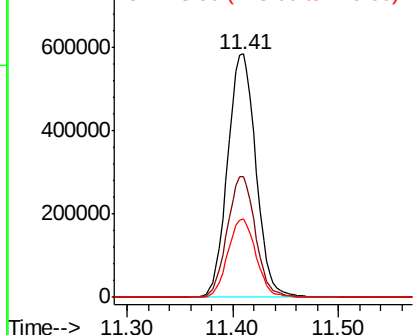
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-E

Tgt Ion:117 Resp: 1085215
Ion Ratio Lower Upper
117 100
82 49.8 42.6 64.0
119 32.1 25.8 38.6

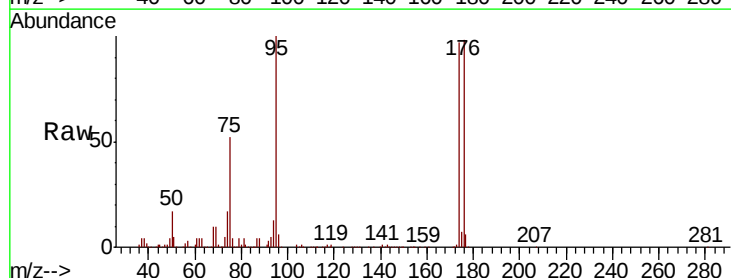


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

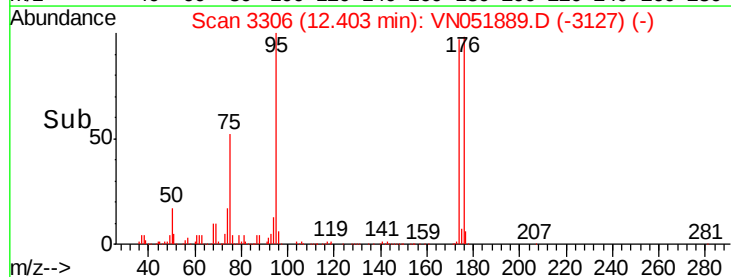
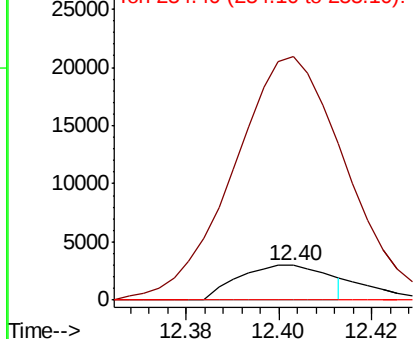


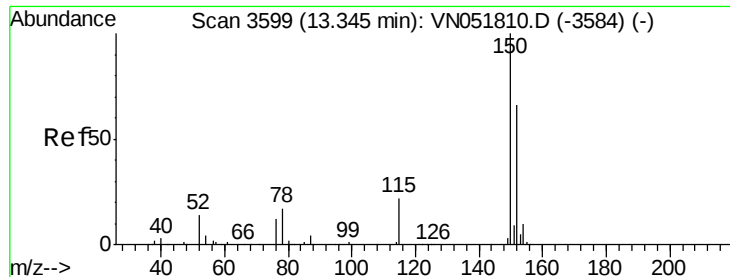
#71
Bromoform
Concen: 4.146 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion:173 Resp: 4021
Ion Ratio Lower Upper
173 100
175 748.8 24.4 73.4#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-101218-E

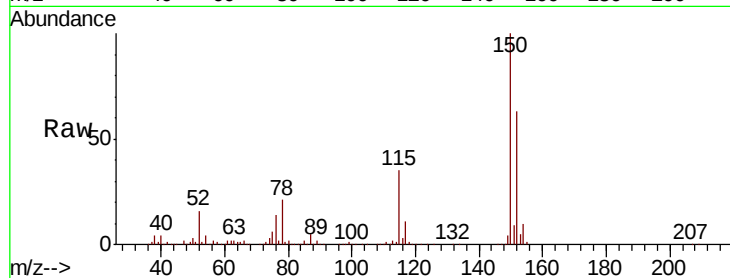
Tgt Ion:152 Resp: 444305

Ion Ratio Lower Upper

152 100

115 54.5 27.8 83.4

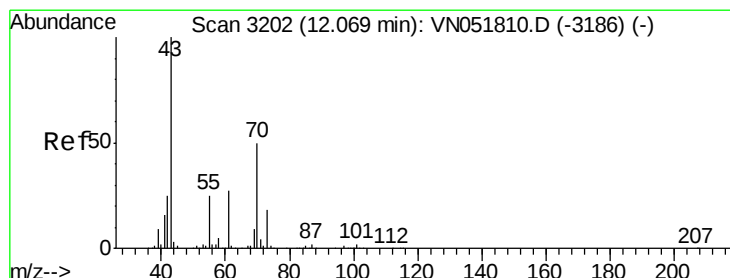
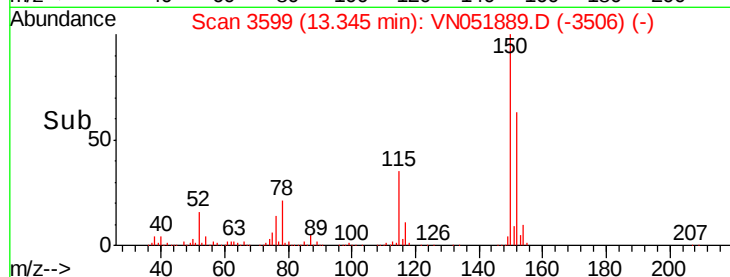
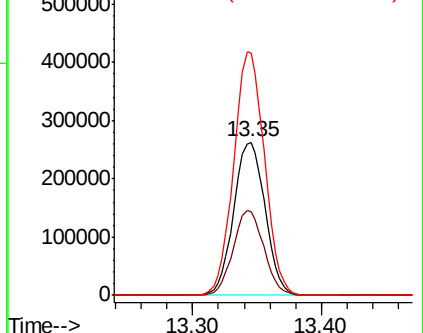
150 155.9 0.0 351.4



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: 0.310 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Tgt Ion: 43 Resp: 2108

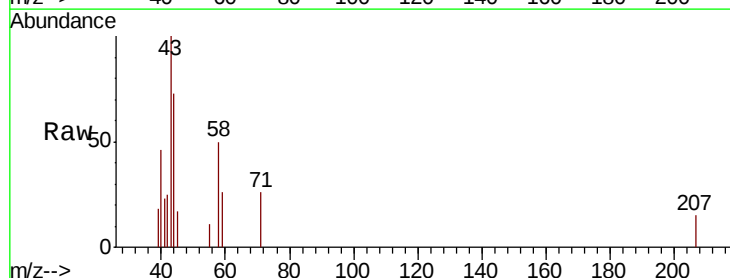
Ion Ratio Lower Upper

43 100

70 0.0 36.2 54.2#

55 15.4 21.8 32.8#

61 0.0 20.5 30.7#

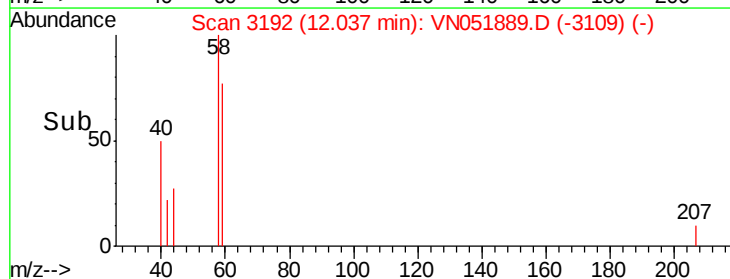
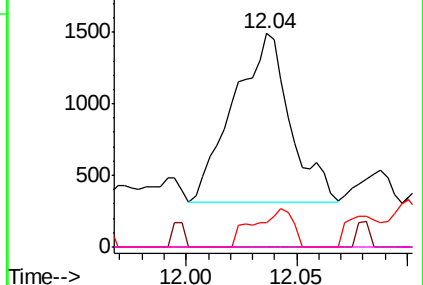


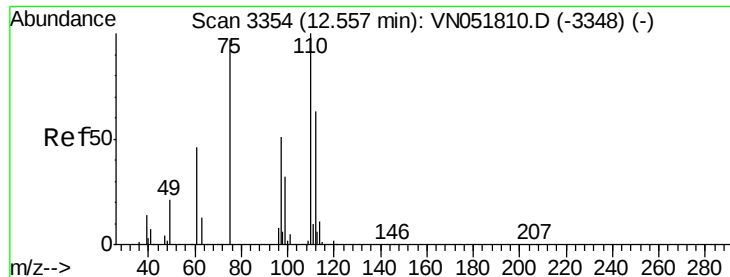
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 46.739 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

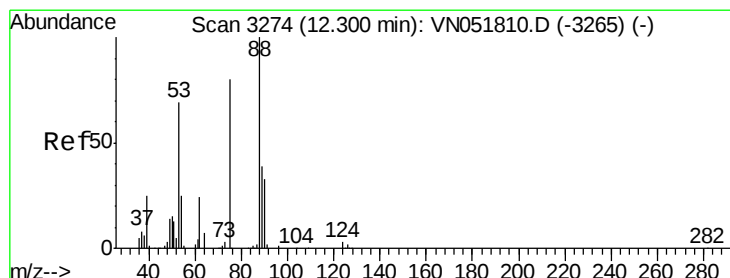
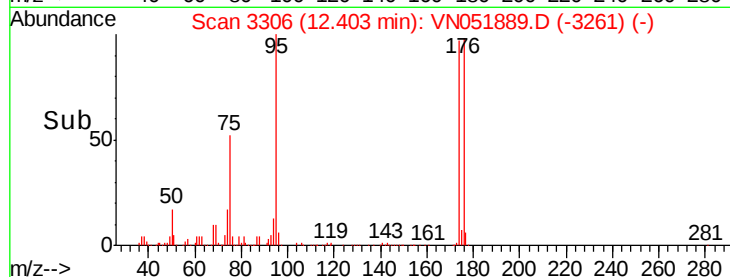
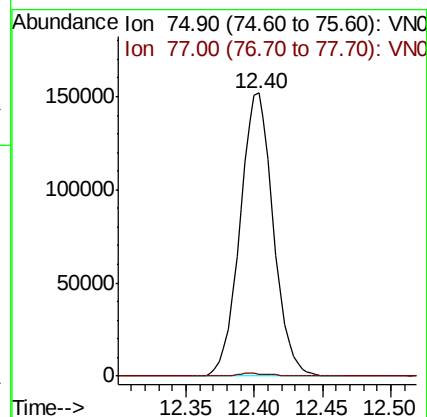
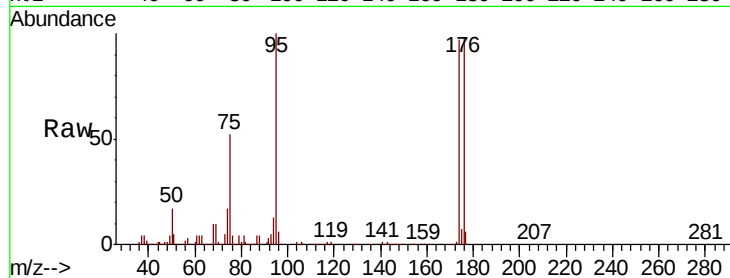
CL-02-101218-E

Tgt Ion: 75 Resp: 256375

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 132.877 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

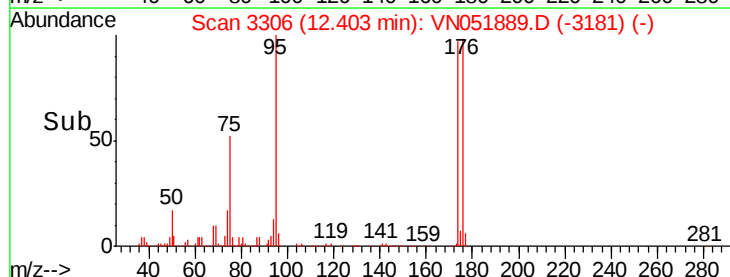
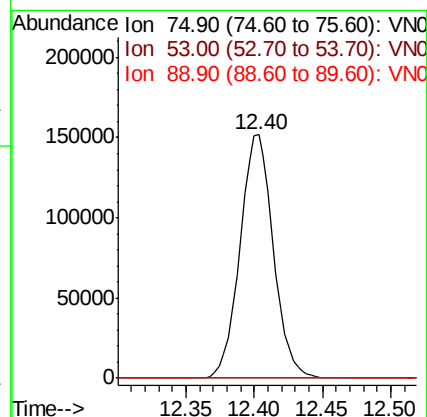
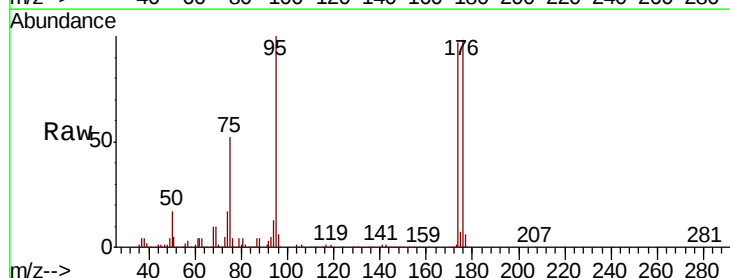
Tgt Ion: 75 Resp: 256375

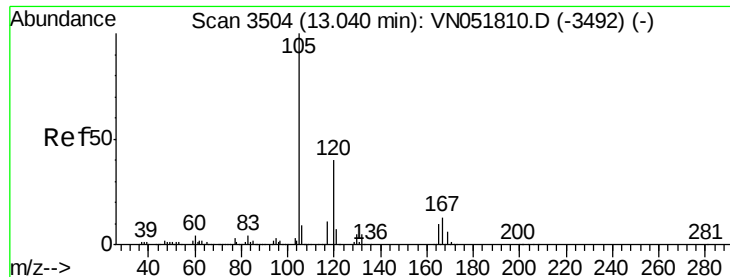
Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 0.0 36.1 54.1#





#84

1,2,4-Trimethylbenzene

Concen: 0.261 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

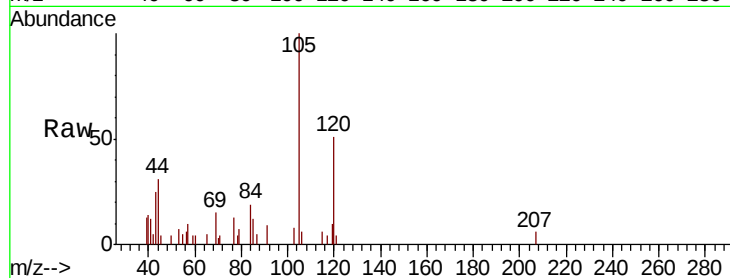
CL-02-101218-E

Tgt Ion:105 Resp: 7239

Ion Ratio Lower Upper

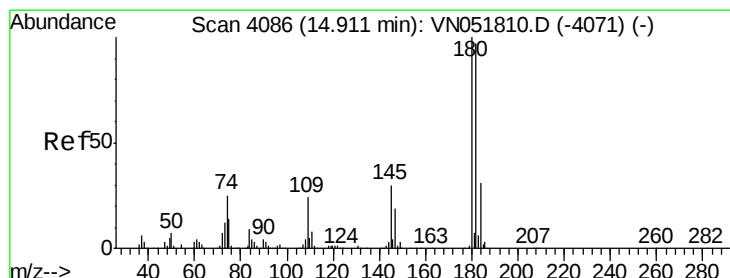
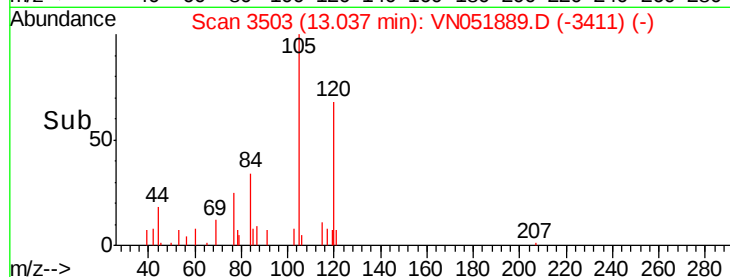
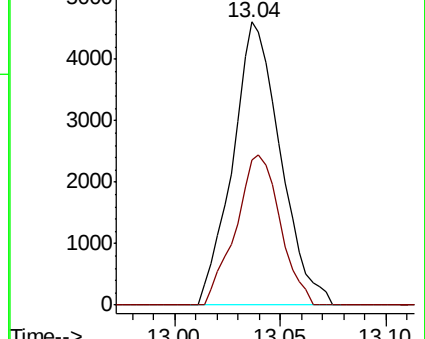
105 100

120 49.4 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.706 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051889.D

Acq: 16 Oct 2018 12:24

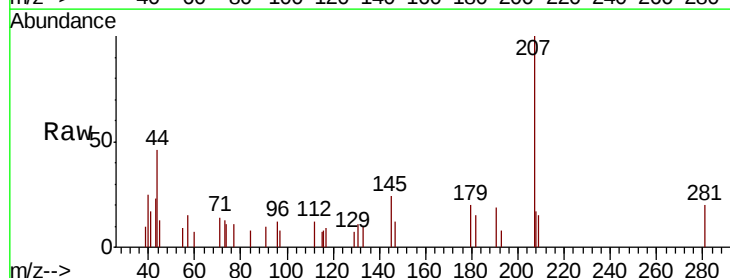
Tgt Ion:180 Resp: 417

Ion Ratio Lower Upper

180 100

182 82.7 48.2 144.6

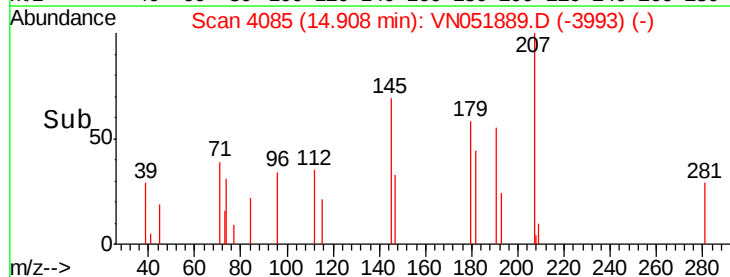
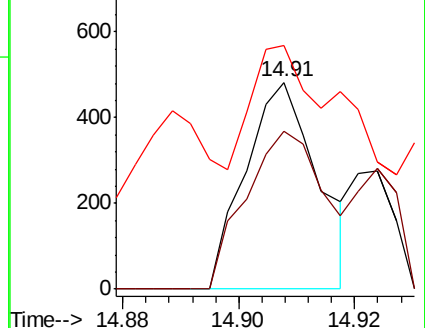
145 95.4 14.1 42.2#

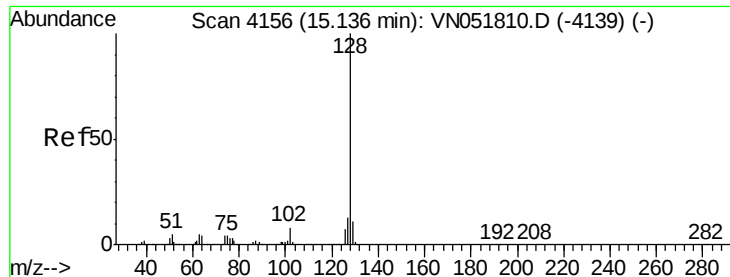


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

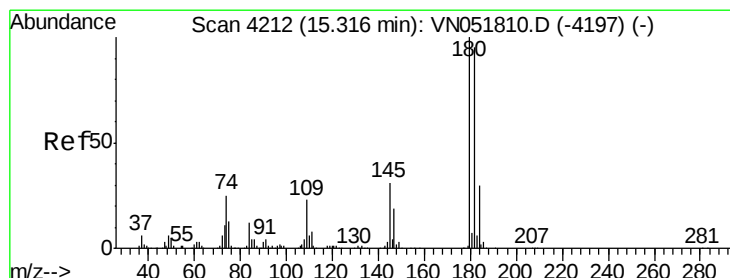
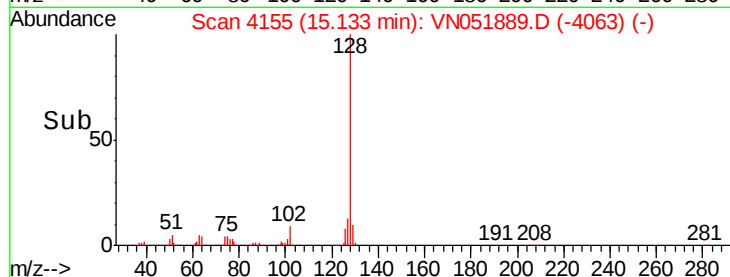
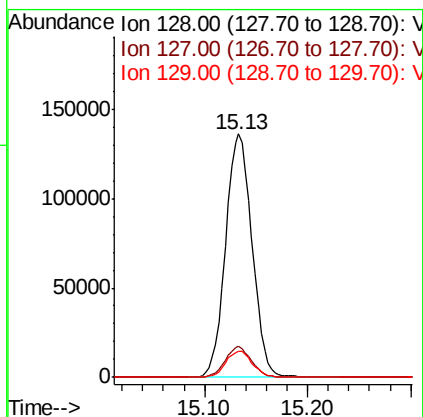
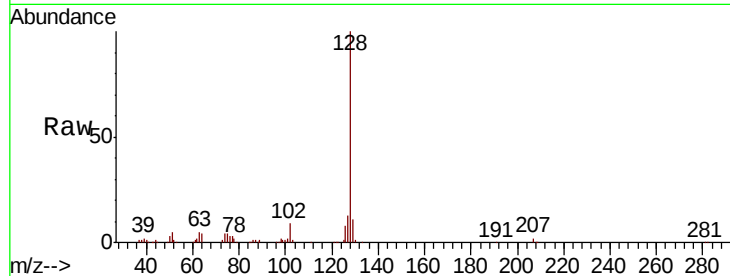




#95
Naphthalene
Concen: 17.960 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Instrument :
MSVOA_N
ClientSampleId :
CL-02-101218-E

Tgt Ion:128 Resp: 243420
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.925 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051889.D
Acq: 16 Oct 2018 12:24

Tgt Ion:180 Resp: 522
Ion Ratio Lower Upper
180 100
182 28.7 48.0 144.2#
145 171.5 15.2 45.6#

