

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050224.D
 Acq On : 31 Jul 2018 19:01
 Operator : MD\SY
 Sample : J3825-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-073018-B

Quant Time: Aug 01 03:58:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	644855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1079581	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	912702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	327262	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	461369	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	7.59	113	412175	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
50) Toluene-d8	10.09	98	1466457	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
62) 4-Bromofluorobenzene	12.40	95	400622	37.55	ug/l	0.00
Spiked Amount			Recovery	=	75.10%	

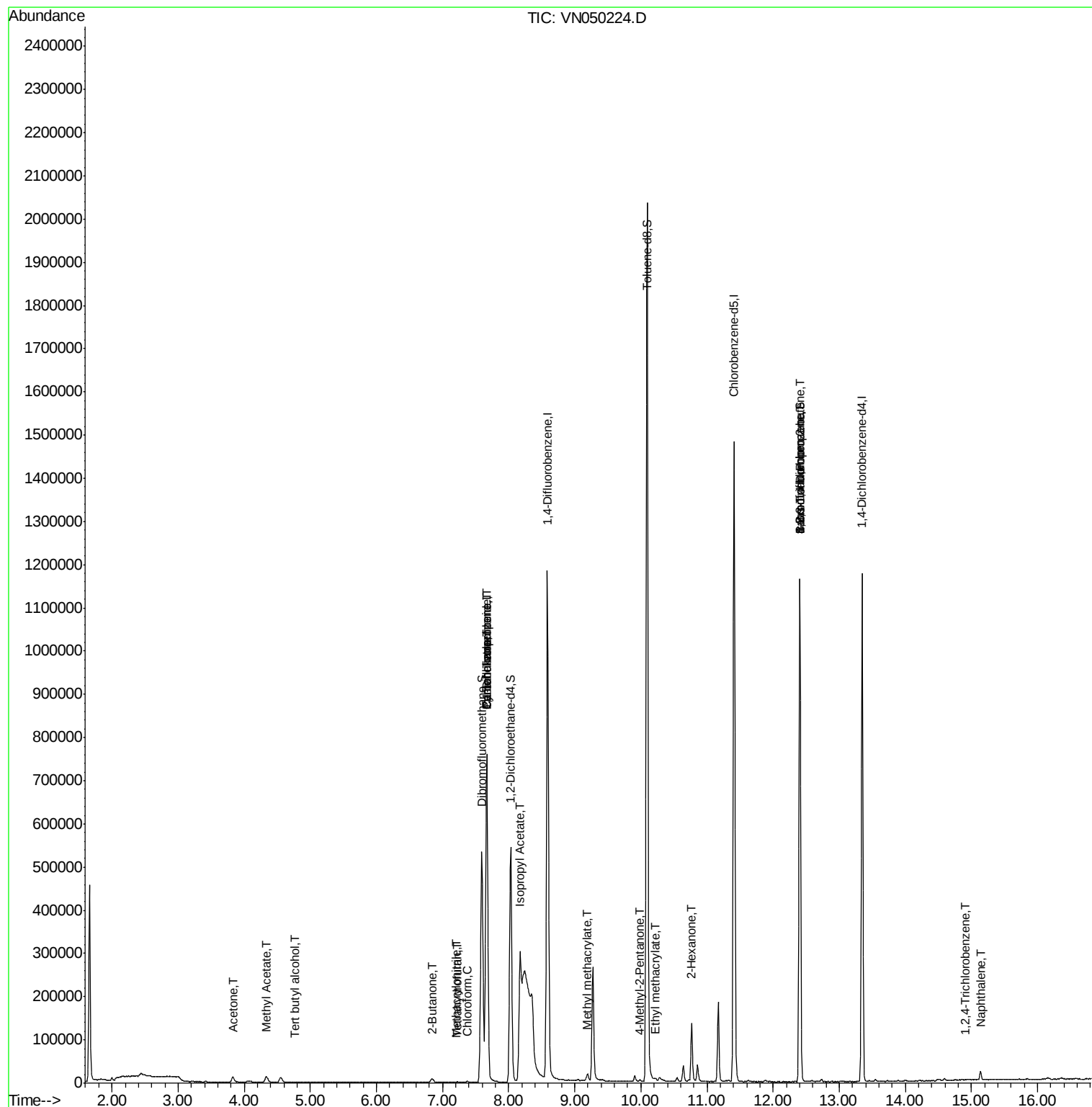
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	292	Below Cal		87
11) Tert butyl alcohol	4.77	59	169	0.26	ug/l #	72
16) Acetone	3.83	43	22862	6.56	ug/l	98
18) Methyl Acetate	4.33	43	25685	1.54	ug/l #	82
20) Methylene Chloride	4.55	84	8747	Below Cal		95
25) 2-Butanone	6.85	43	5413	1.58	ug/l	94
29) Tetrahydrofuran	7.22	42	1659	0.75	ug/l #	47
30) Chloroform	7.37	83	3245	0.21	ug/l	93
31) Cyclohexane	7.67	56	12138	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	46154	3.79	ug/l #	48
38) Carbon Tetrachloride	7.66	117	58058	4.50	ug/l #	16
41) Methacrylonitrile	7.19	41	29	2.75	ug/l #	10
43) Isopropyl Acetate	8.17	43	354736	21.55	ug/l #	91
48) Methyl methacrylate	9.18	41	8487	1.16	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	2986	0.36	ug/l #	86
56) Ethyl methacrylate	10.23	69	3047	2.28	ug/l #	79
59) 2-Hexanone	10.77	43	18529	8.14	ug/l #	58
71) Bromoform	12.41	173	3375	0.52	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	200	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	194599	32.00	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	194599	101.49	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.50	75	68	Below Cal	#	17
93) 1,2,4-Trichlorobenzene	14.91	180	29	3.09	ug/l #	13
95) Naphthalene	15.14	128	17721	5.50	ug/l	97

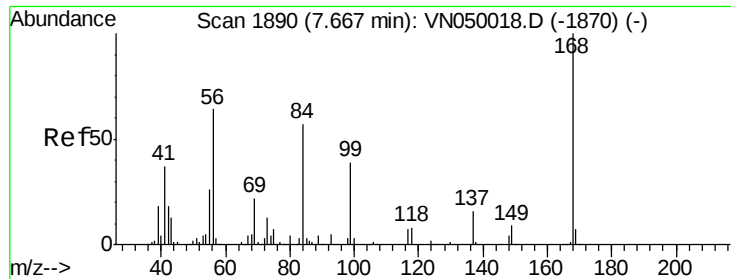
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 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: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

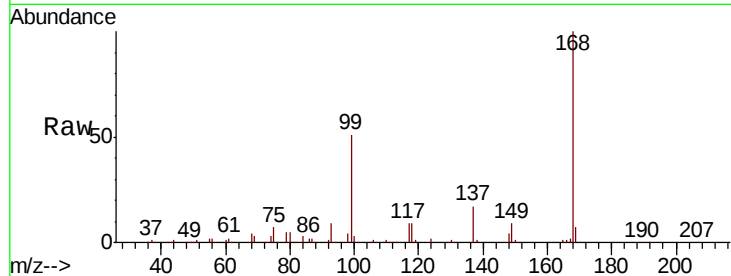
CL-01-073018-B

Tot Ion:168 Resp: 644855

Ion Ratio Lower Upper

168 100

99 51.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050224.D (-1798) (-)

Ion 98.90 (98.60 to 99.60): VN050224.D (-1798) (-)

7.67

250000

200000

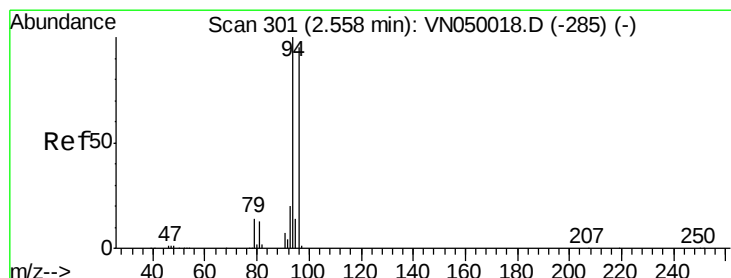
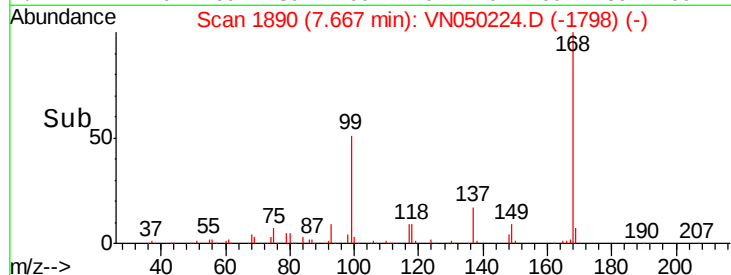
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050224.D

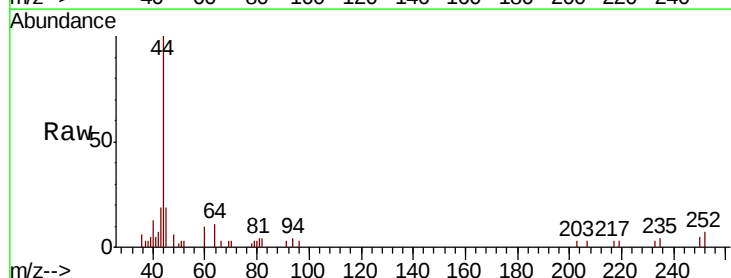
Acq: 31 Jul 2018 19:01

Tgt Ion: 94 Resp: 292

Ion Ratio Lower Upper

94 100

96 80.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050224.D (-206) (-)

Ion 95.90 (95.60 to 96.60): VN050224.D (-206) (-)

2.56

400

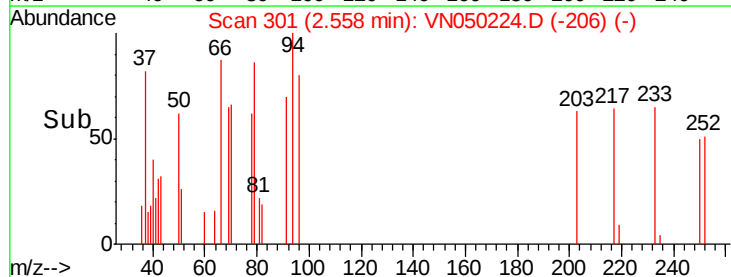
300

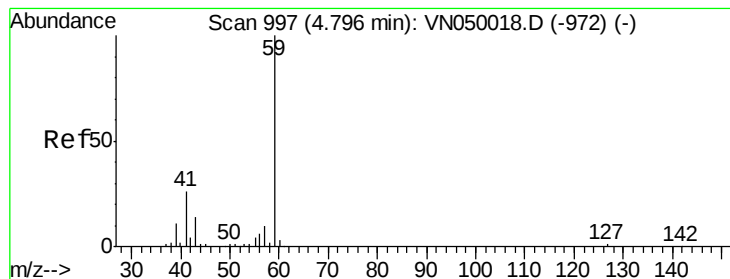
200

100

0

Time-->



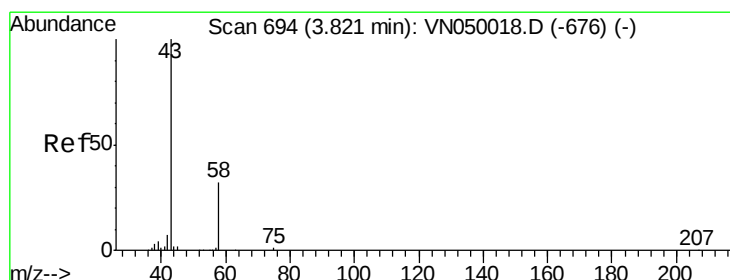
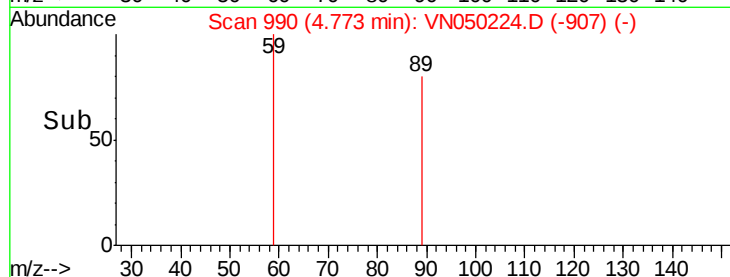
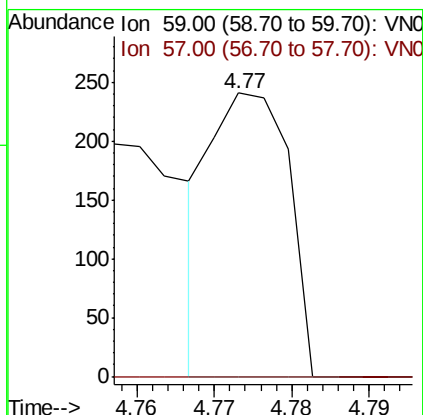
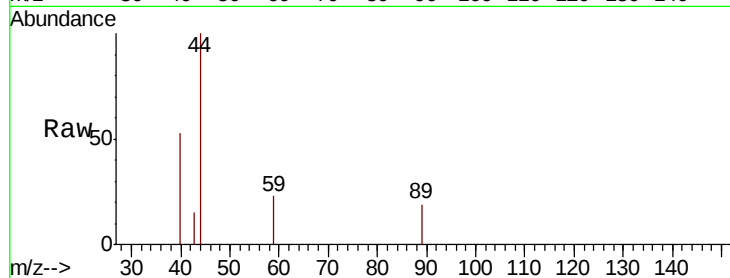


#11

Tert butyl alcohol
 Concen: 0.26 ug/l
 RT: 4.77 min Scan# 990
 Delta R.T. -0.03 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-073018-B

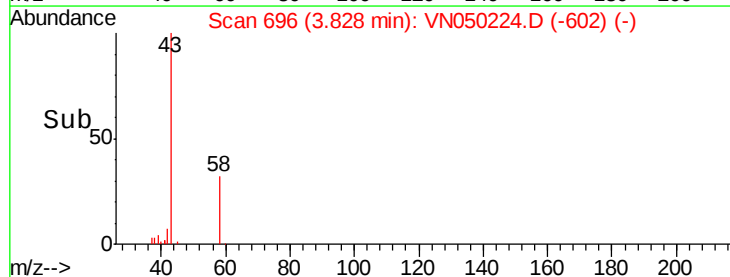
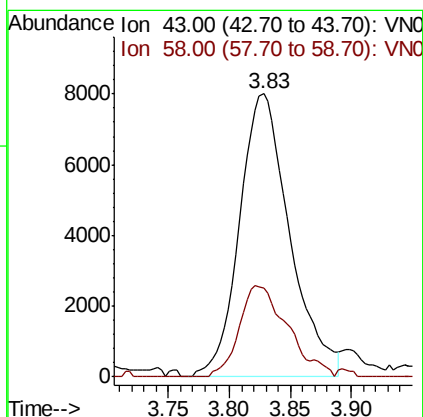
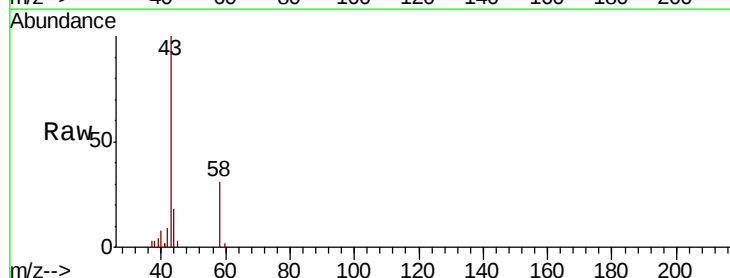
Tot Ion: 59 Resp: 169
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

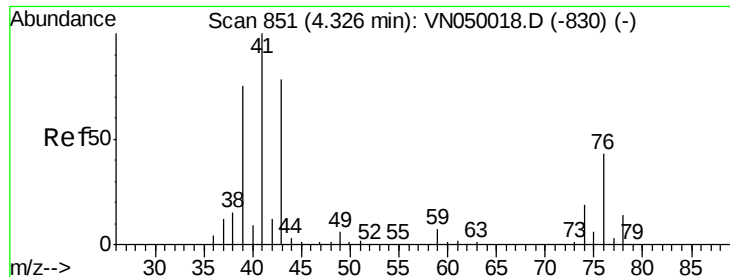


#16

Acetone
 Concen: 6.56 ug/l
 RT: 3.83 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

Tgt Ion: 43 Resp: 22862
 Ion Ratio Lower Upper
 43 100
 58 31.2 25.8 38.8

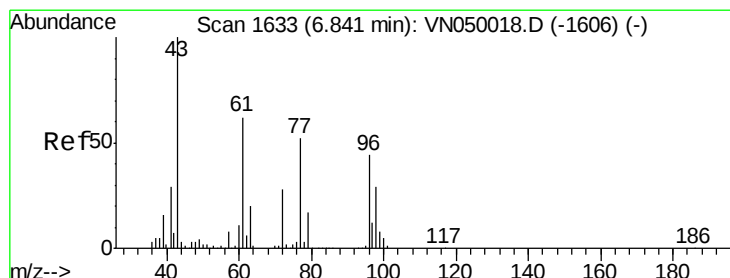
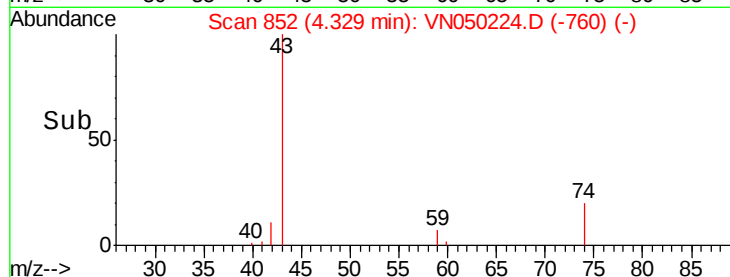
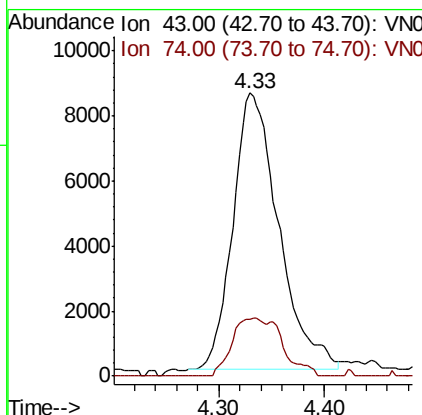
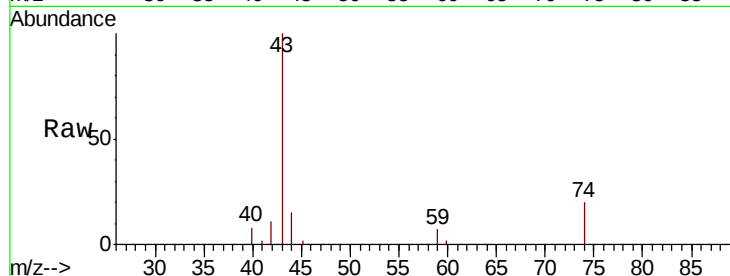




#18
Methvl Acetate
Concen: 1.54 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

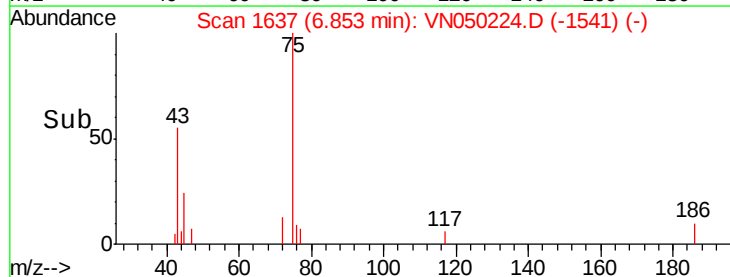
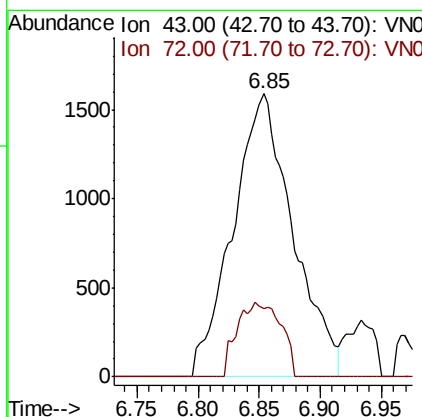
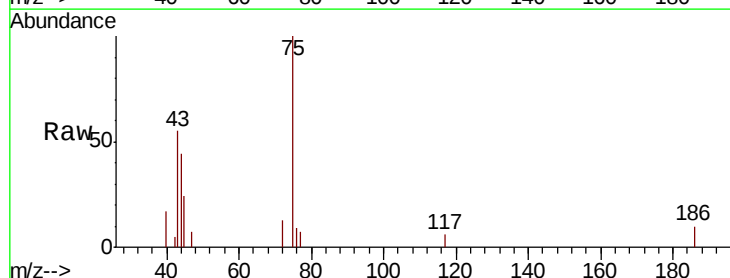
Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

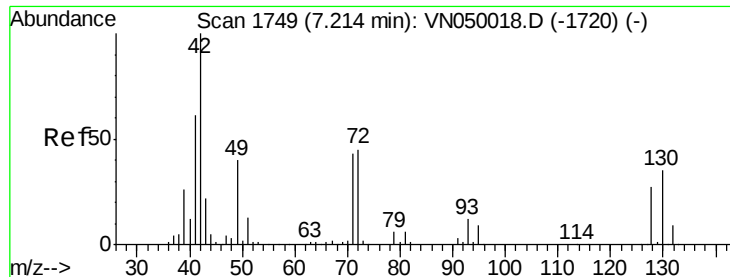
Tot Ion: 43 Resp: 25685
Ion Ratio Lower Upper
43 100
74 15.2 19.2 28.8#



#25
2-Butanone
Concen: 1.58 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Tgt Ion: 43 Resp: 5413
Ion Ratio Lower Upper
43 100
72 23.9 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.75 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampled :

CL-01-073018-B

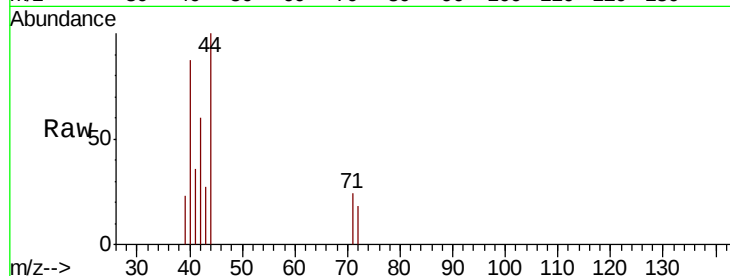
Tot Ion: 42 Resp: 1659

Ion Ratio Lower Upper

42 100

72 5.6 35.9 53.9#

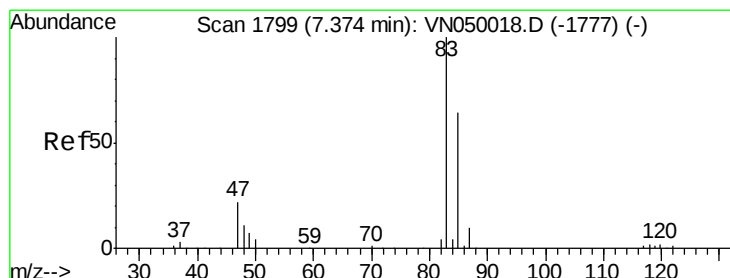
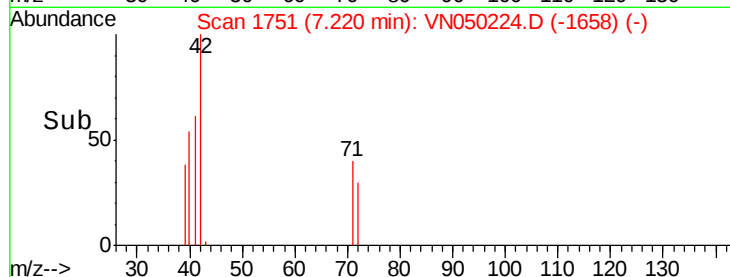
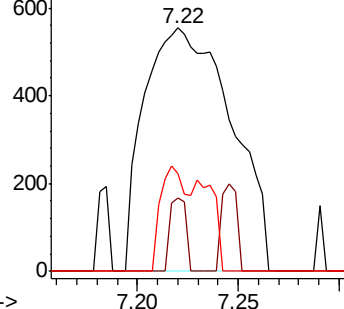
71 13.7 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.21 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050224.D

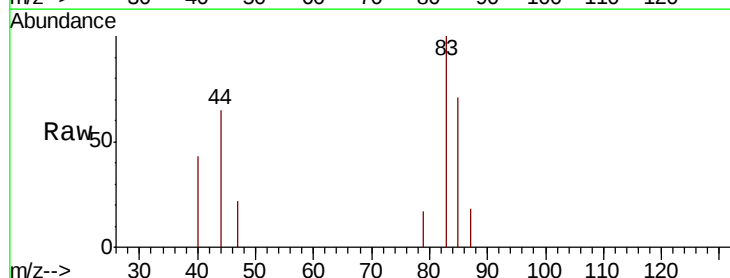
Acq: 31 Jul 2018 19:01

Tgt Ion: 83 Resp: 3245

Ion Ratio Lower Upper

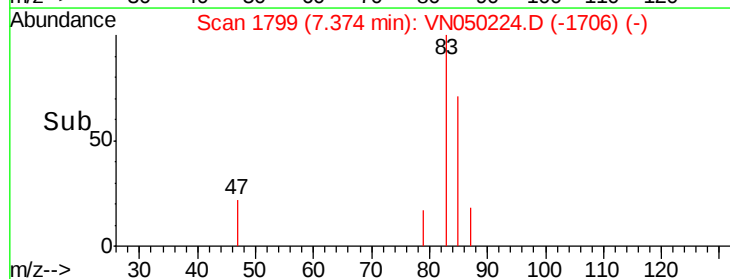
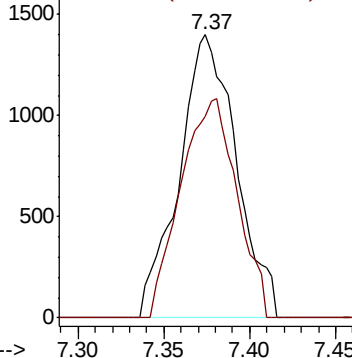
83 100

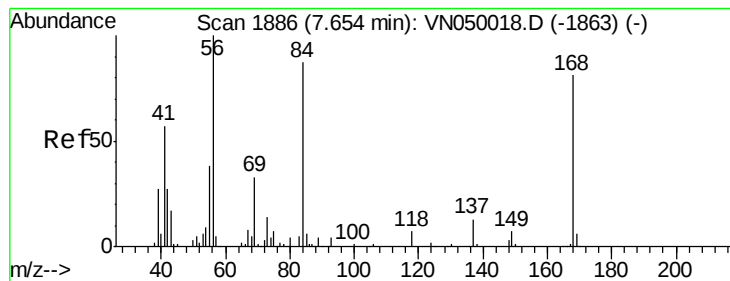
85 71.2 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

CL-01-073018-B

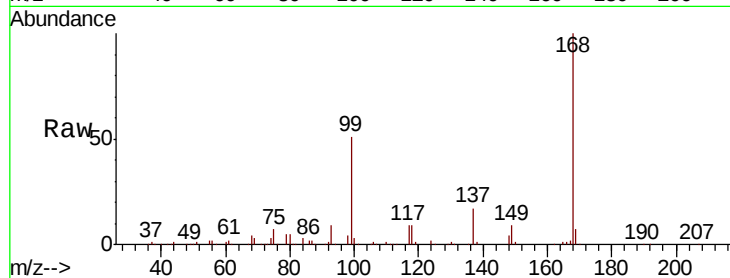
Tot Ion: 56 Resp: 12138

Ion Ratio Lower Upper

56 100

69 166.6 26.2 39.4#

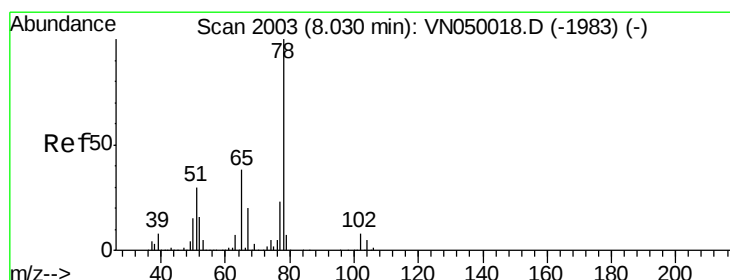
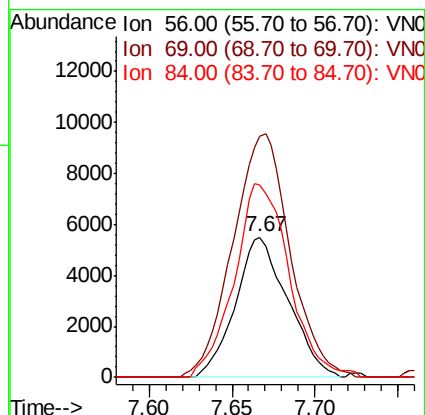
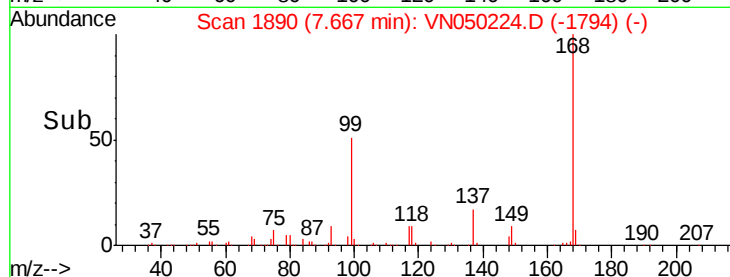
84 137.0 67.4 101.0#



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: 51.28 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050224.D

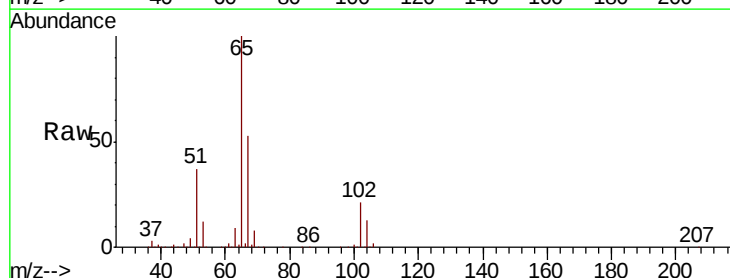
Acq: 31 Jul 2018 19:01

Tgt Ion: 65 Resp: 461369

Ion Ratio Lower Upper

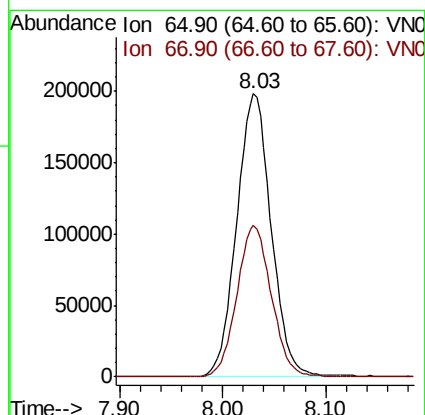
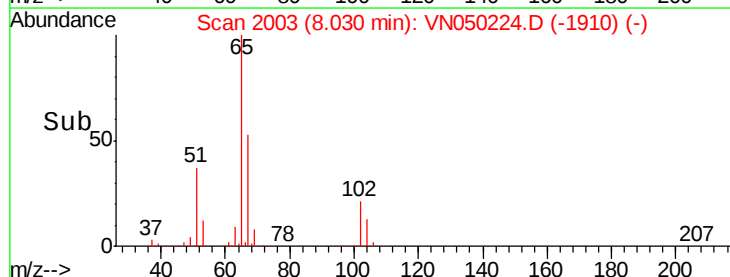
65 100

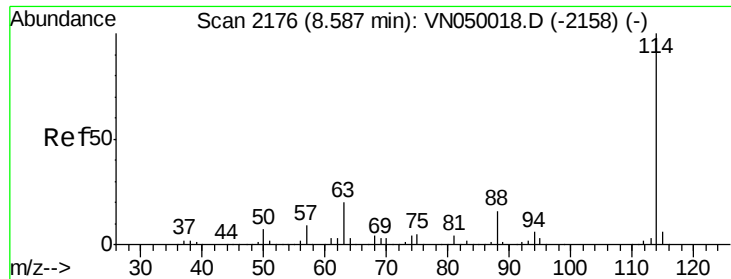
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

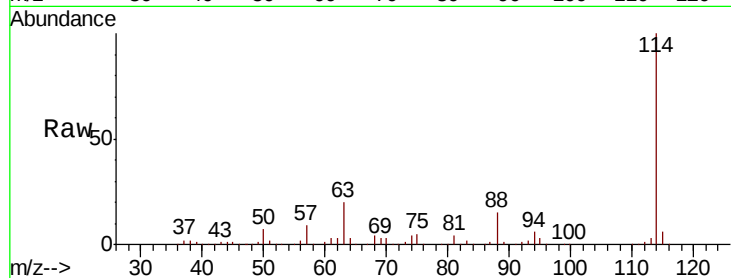




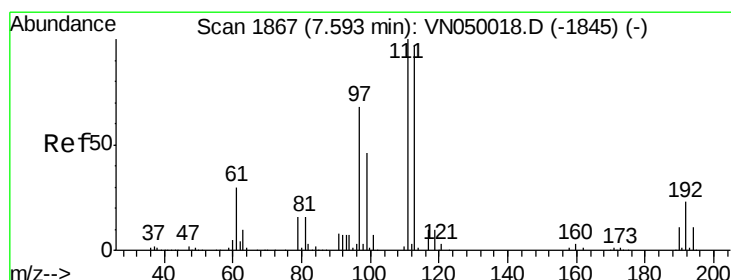
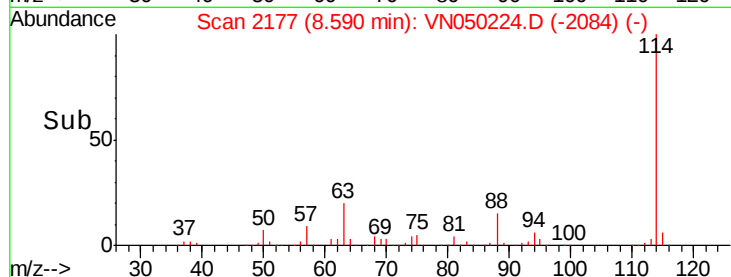
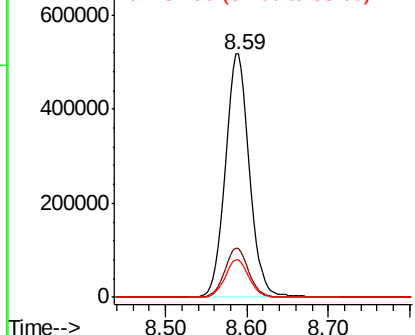
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

Instrument :
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 CL-01-073018-B

Tot Ion:114 Resp: 1079581
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.4 0.0 31.2

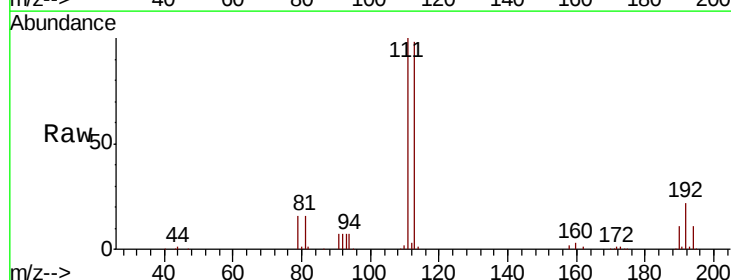


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

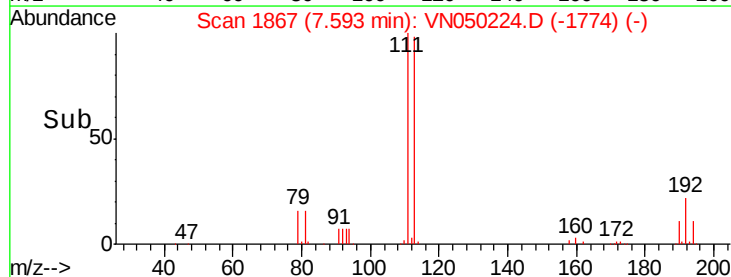
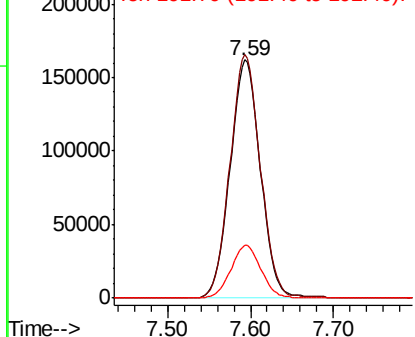


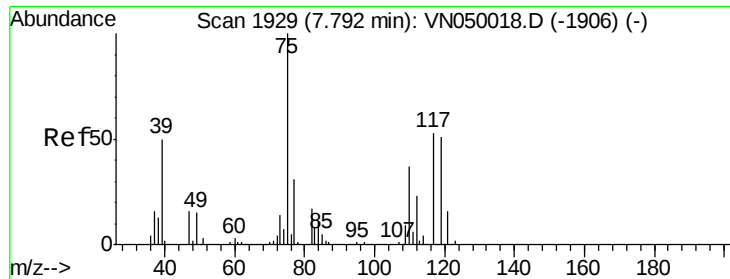
#35
 Dibromofluoromethane
 Concen: 46.76 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

Tgt Ion:113 Resp: 412175
 Ion Ratio Lower Upper
 113 100
 111 101.7 80.7 121.1
 192 22.0 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

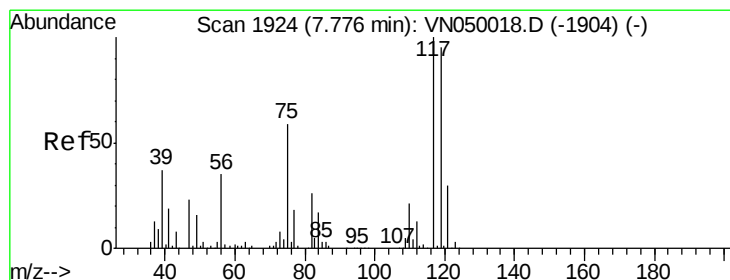
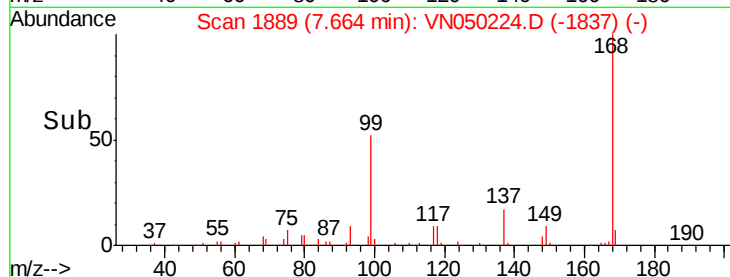
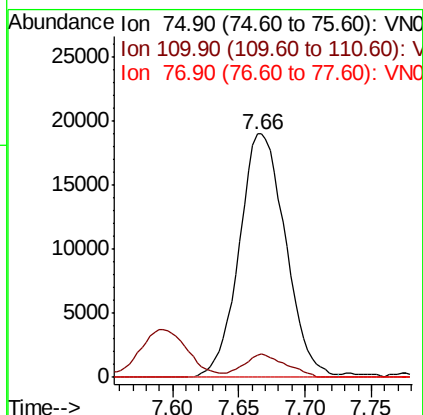
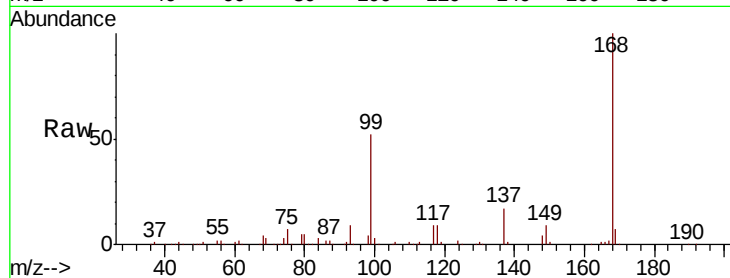




#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

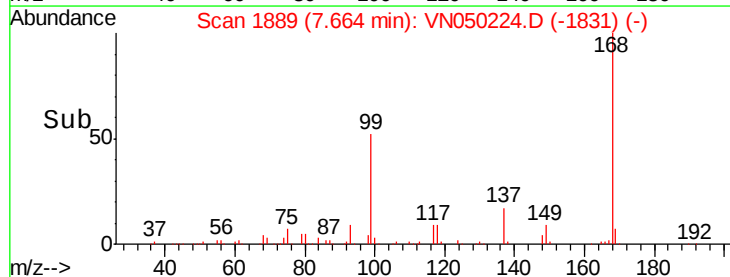
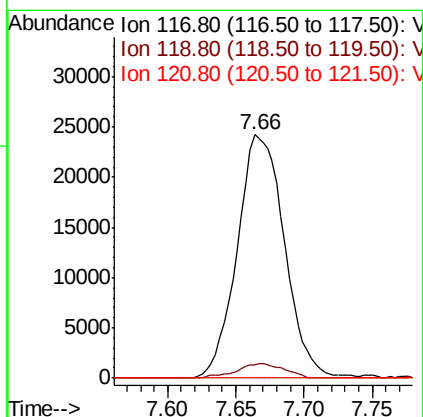
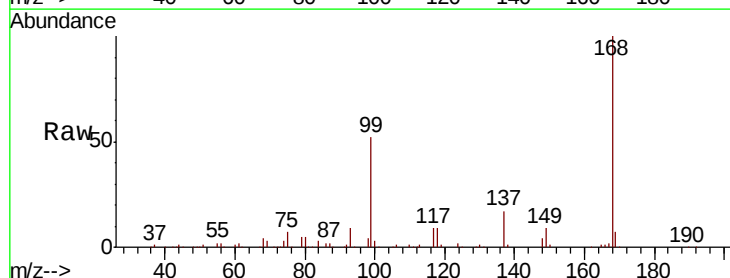
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-073018-B

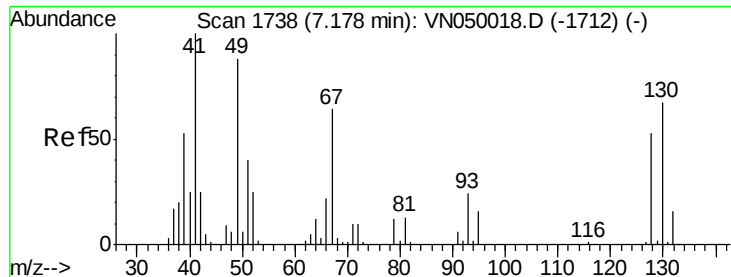
Tot Ion	75	Resp	46154
Ion Ratio	100	Lower	Upper
75	100		
110	8.7	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.50 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN050224.D
 Acq: 31 Jul 2018 19:01

Tgt Ion	117	Resp	58058
Ion Ratio	100	Lower	Upper
117	100		
119	5.6	77.4	116.0#
121	0.0	23.9	35.9#

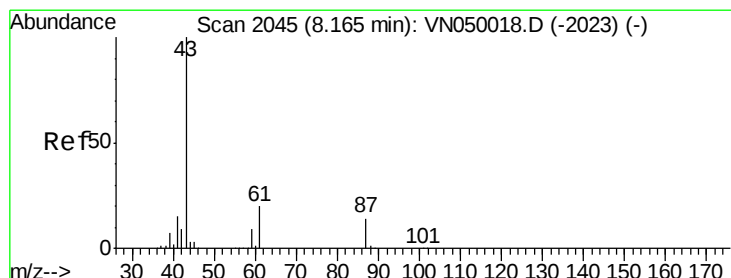
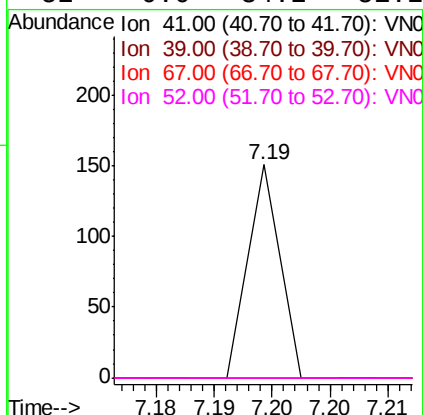
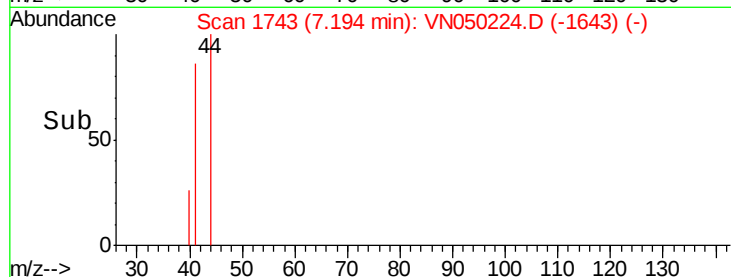
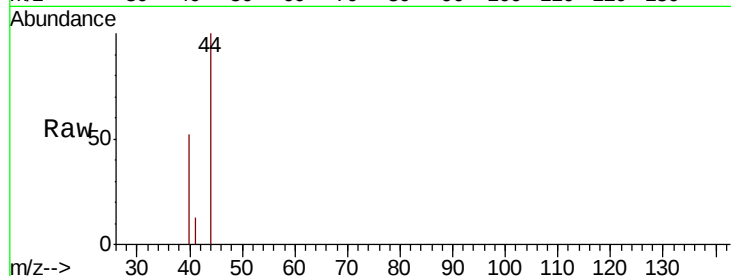




#41
Methacrylonitrile
Concen: 2.75 ug/l
RT: 7.19 min Scan# 1743
Delta R.T. 0.02 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

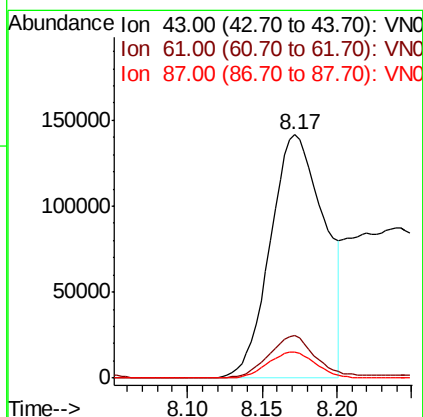
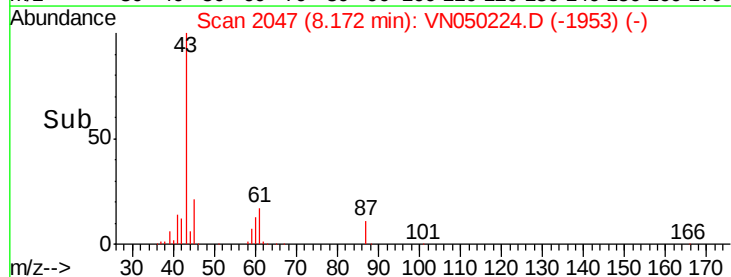
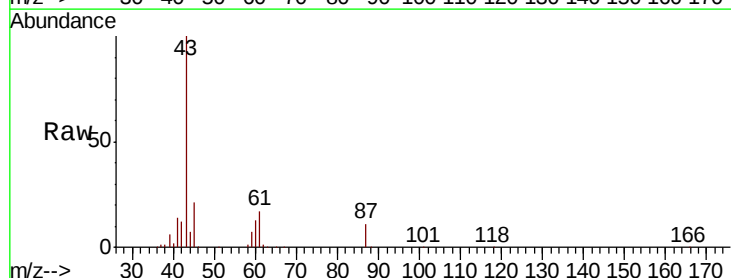
Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

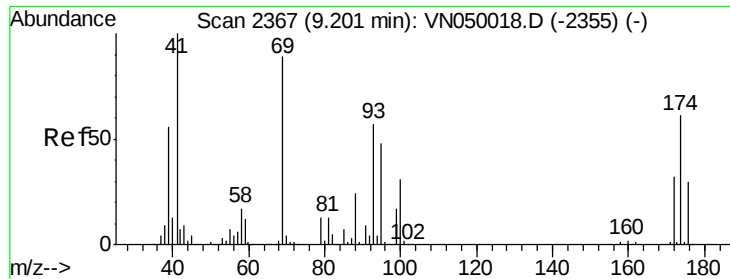
Tot Ion: 41 Resp: 29
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 21.55 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Tgt Ion: 43 Resp: 354736
Ion Ratio Lower Upper
43 100
61 15.6 15.8 23.6#
87 9.6 10.3 15.5#

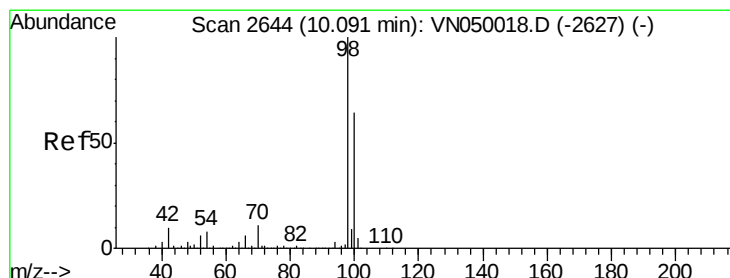
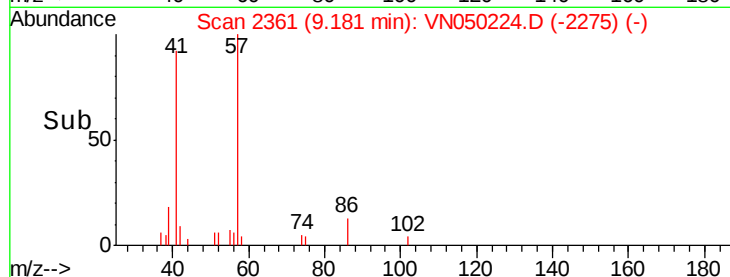
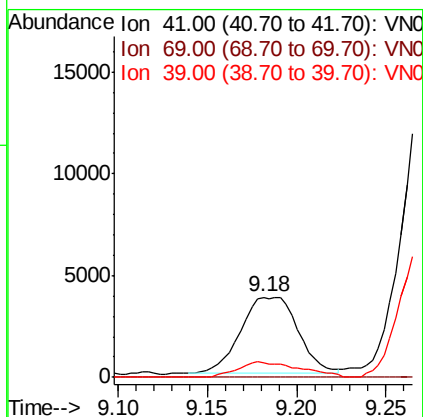
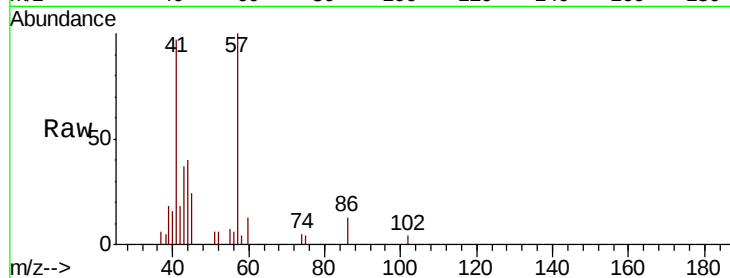




#48
Methvl methacrylate
Concen: 1.16 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

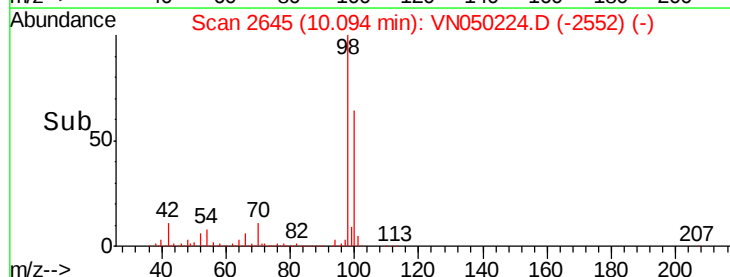
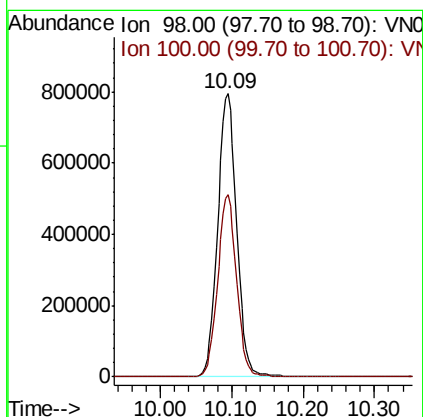
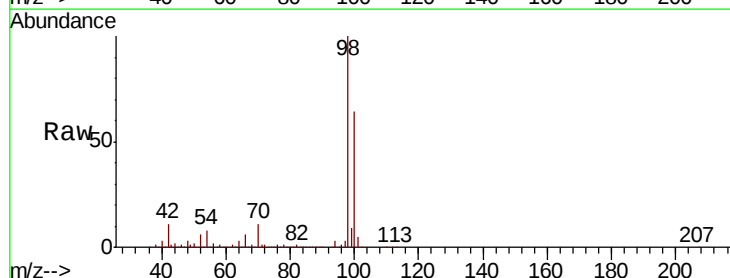
Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

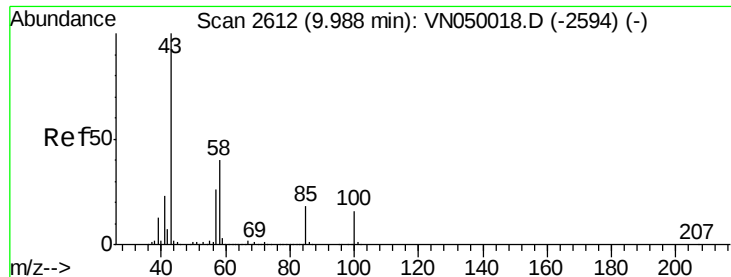
Tot Ion: 41 Resp: 8487
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 21.9 43.9 65.9#



#50
Toluene-d8
Concen: 45.25 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Tgt Ion: 98 Resp: 1466457
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

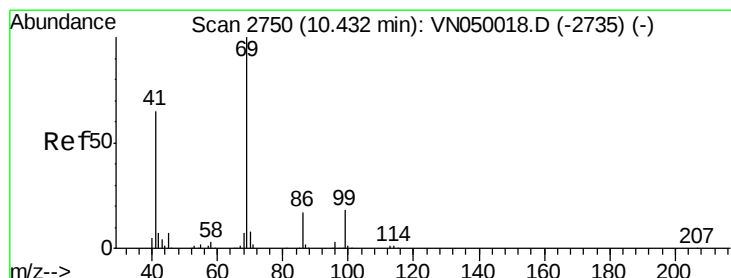
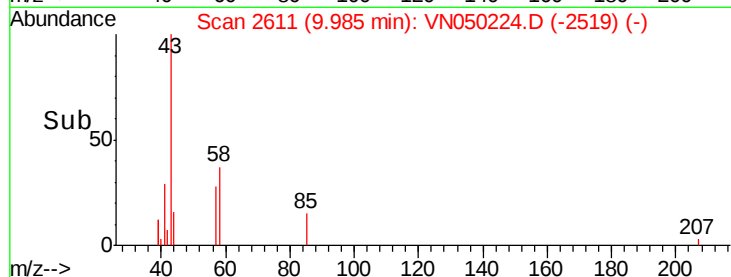
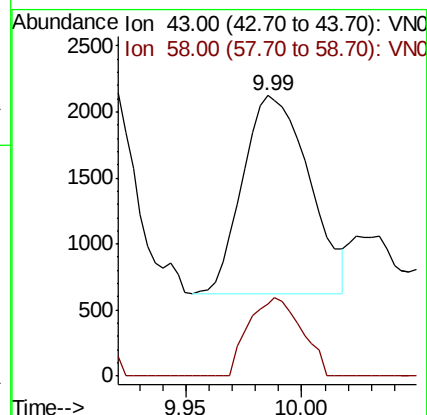
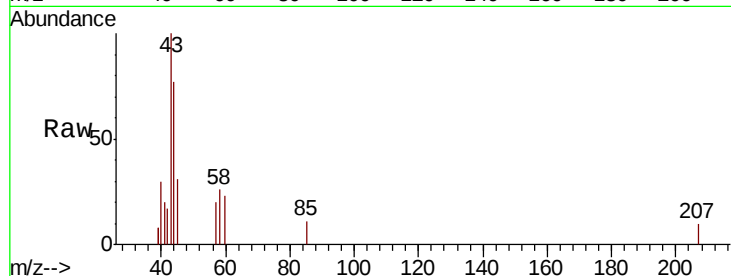
CL-01-073018-B

Tot Ion: 43 Resp: 2986

Ion Ratio Lower Upper

43 100

58 31.5 31.9 47.9#



#56

Ethyl methacrylate

Concen: 2.28 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

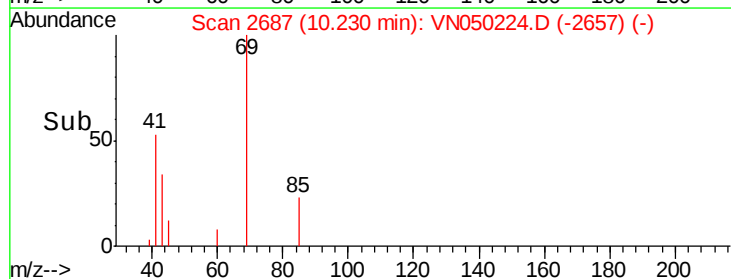
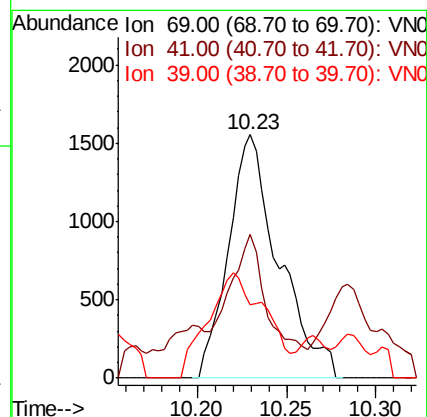
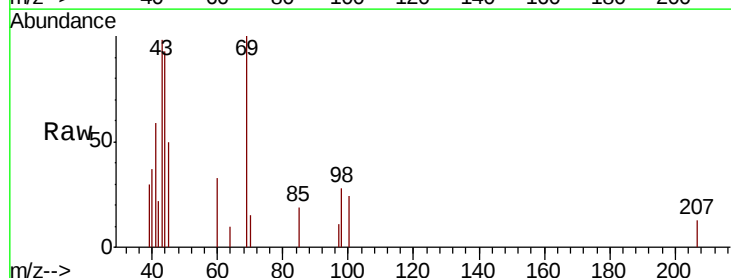
Tgt Ion: 69 Resp: 3047

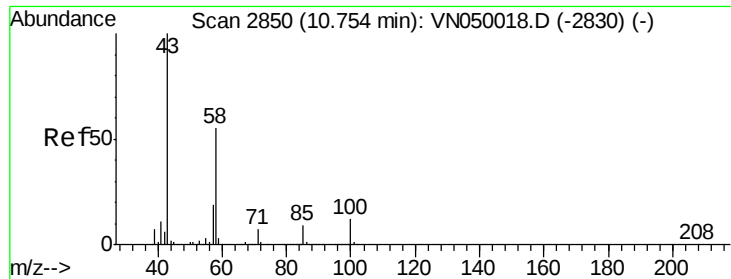
Ion Ratio Lower Upper

69 100

41 50.1 51.0 76.4#

39 49.1 26.6 40.0#

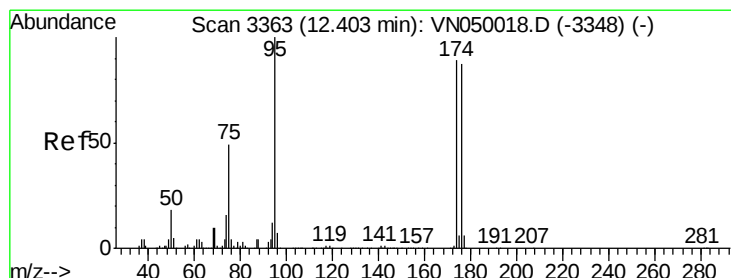
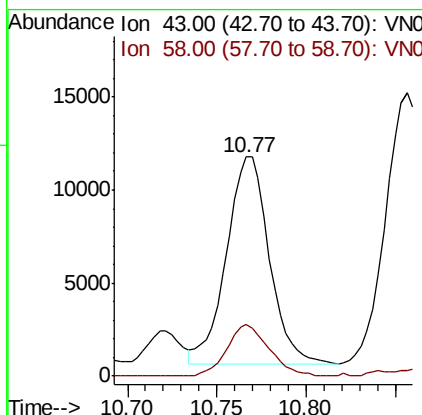
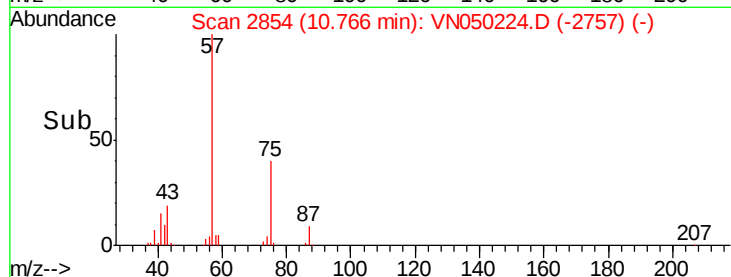
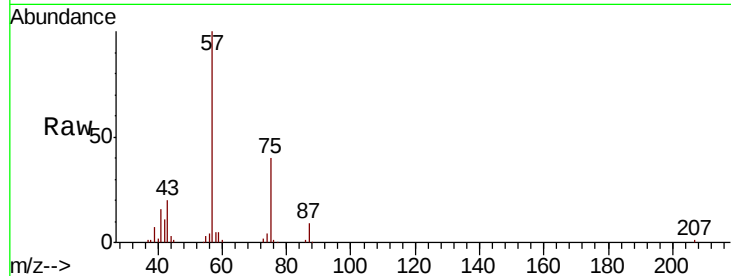




#59
2-Hexanone
Concen: 8.14 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

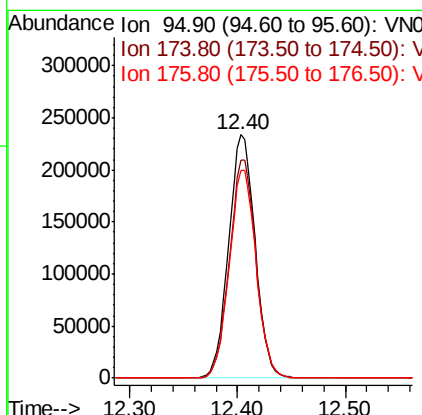
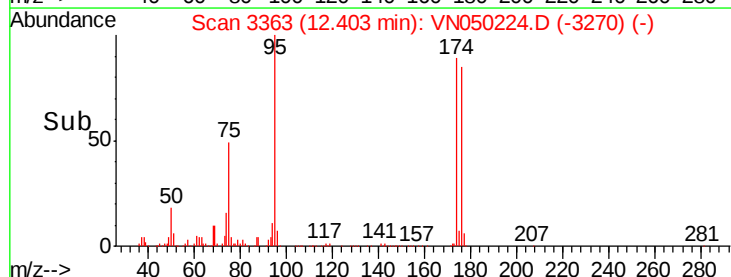
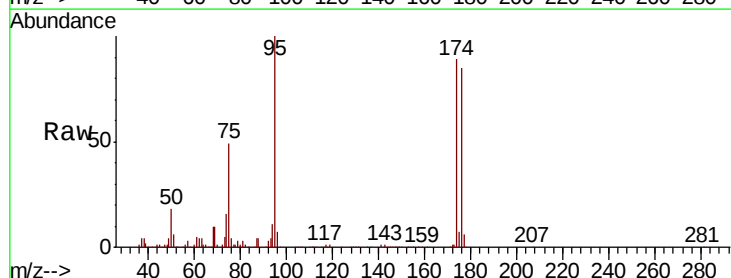
Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

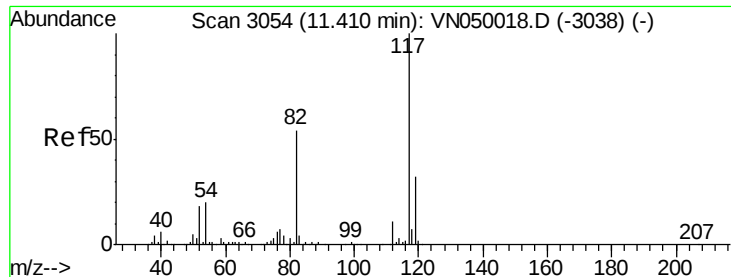
Tot Ion: 43 Resp: 18529
Ion Ratio Lower Upper
43 100
58 24.6 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 37.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Tgt Ion: 95 Resp: 400622
Ion Ratio Lower Upper
95 100
174 89.7 0.0 178.2
176 86.3 0.0 173.4

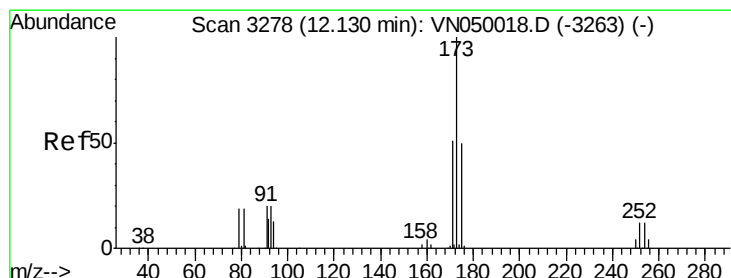
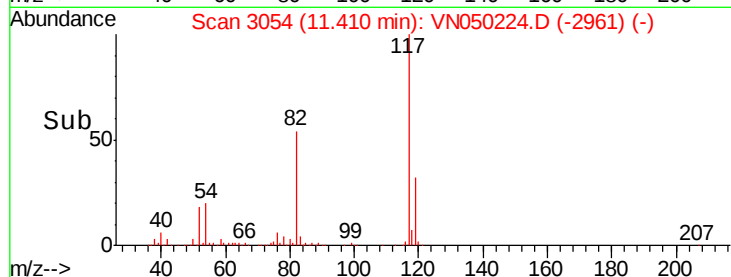
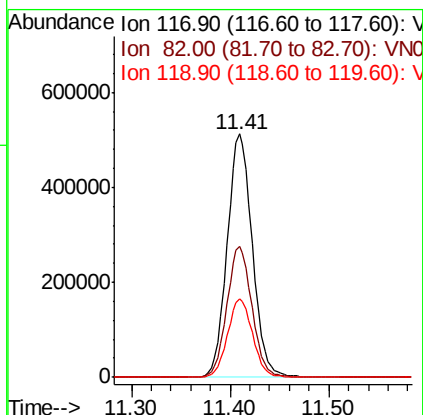
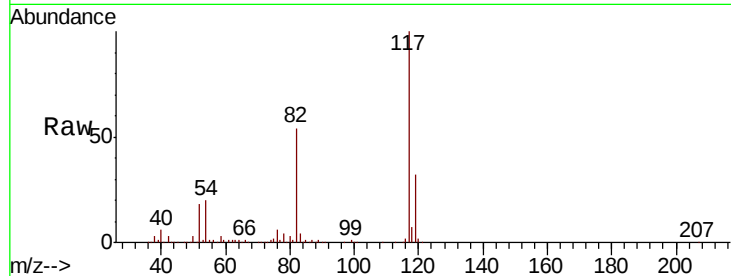




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

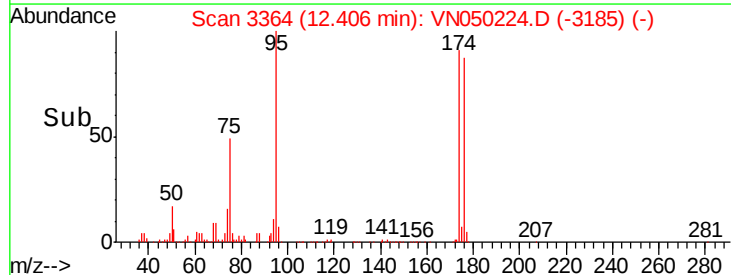
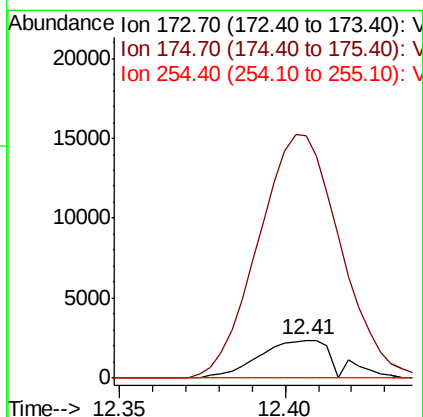
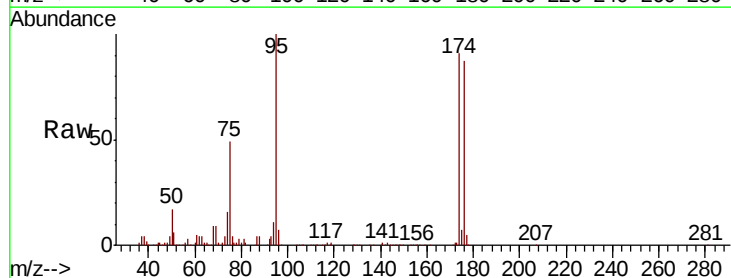
Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

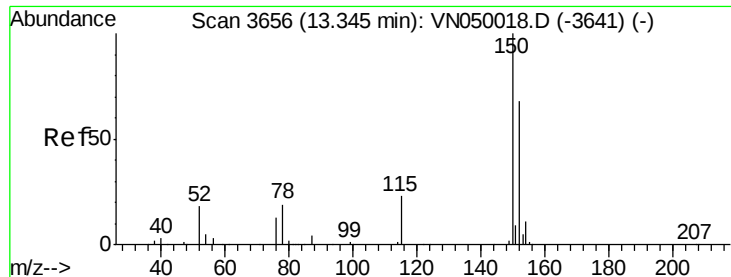
Tot Ion:117 Resp: 912702
Ion Ratio Lower Upper
117 100
82 53.8 43.7 65.5
119 32.1 26.1 39.1



#71
Bromoform
Concen: 0.52 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Tgt Ion:173 Resp: 3375
Ion Ratio Lower Upper
173 100
175 679.6 24.1 72.2#
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: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

CL-01-073018-B

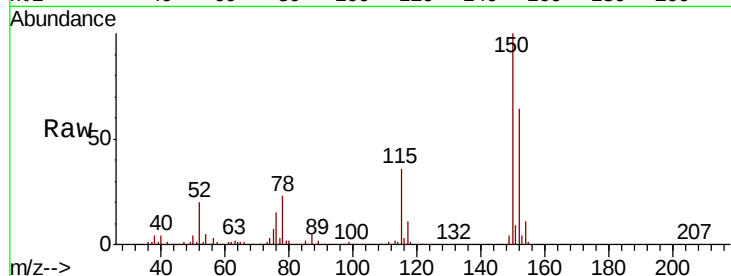
Tot Ion:152 Resp: 327262

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

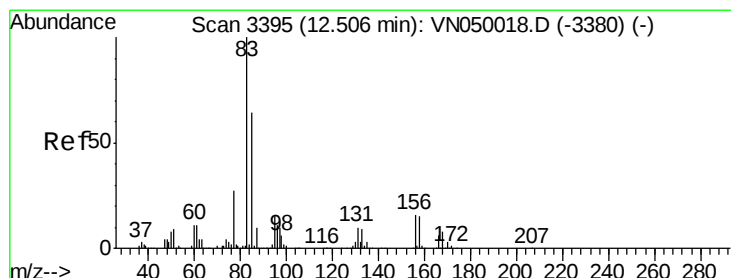
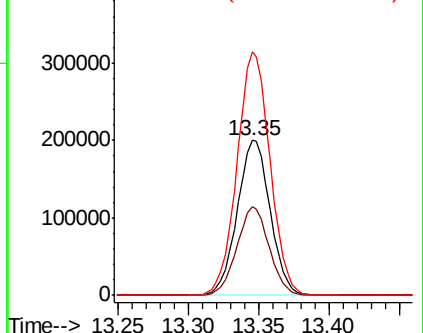
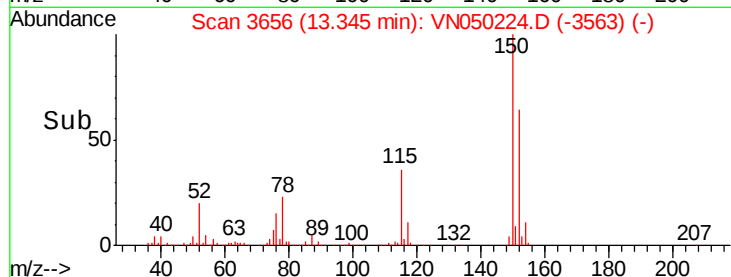
150 157.2 0.0 348.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3368

Delta R.T. -0.09 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

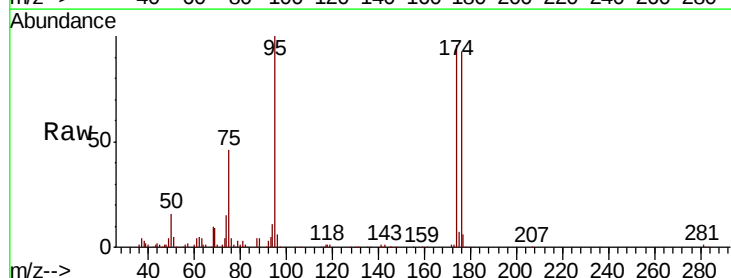
Tgt Ion: 83 Resp: 200

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

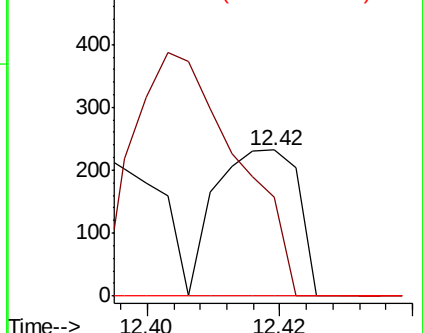
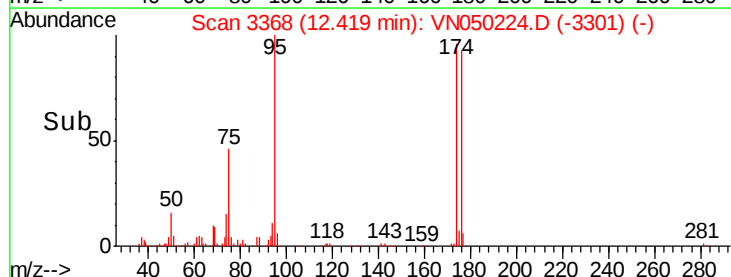
85 0.0 32.3 96.8#

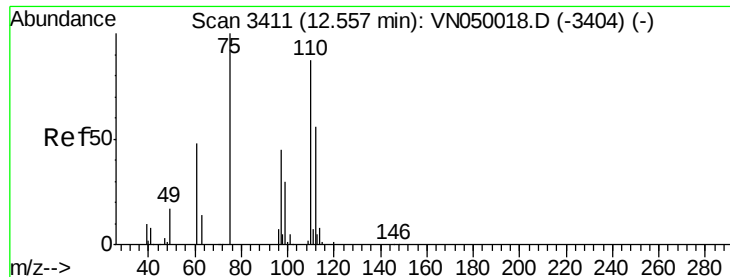


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 32.00 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

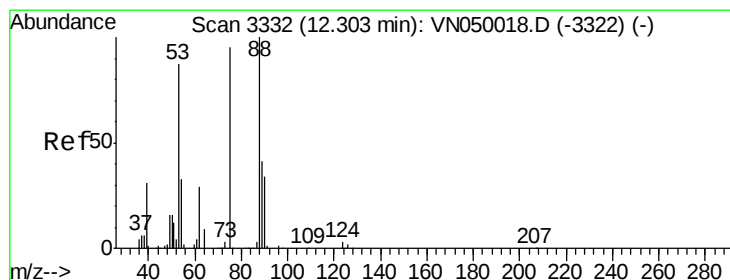
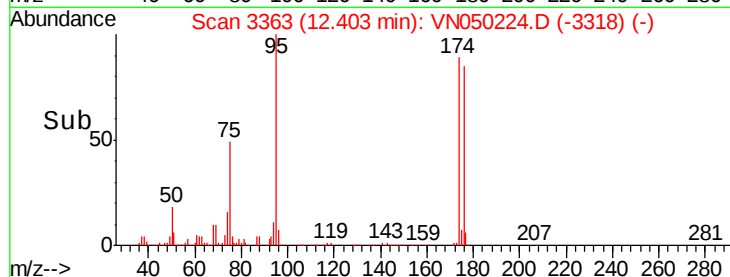
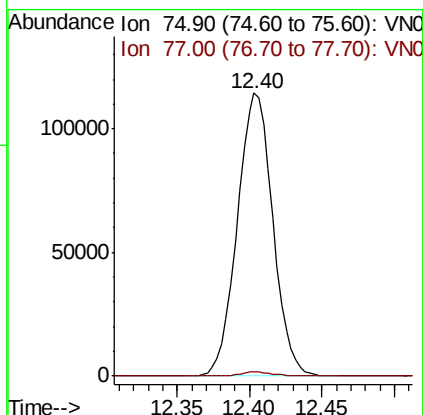
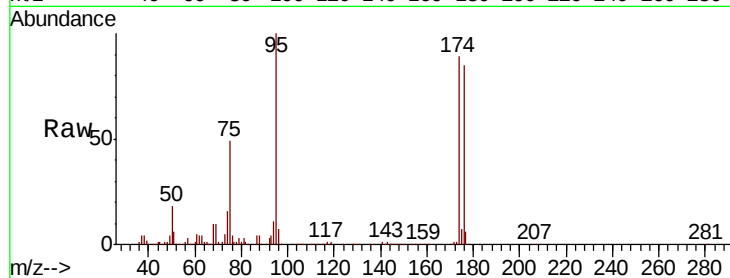
CL-01-073018-B

Tot Ion: 75 Resp: 194599

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 101.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

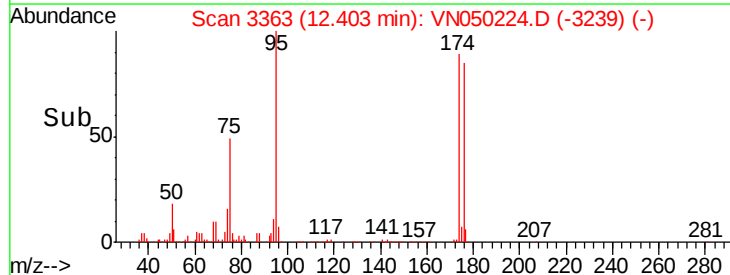
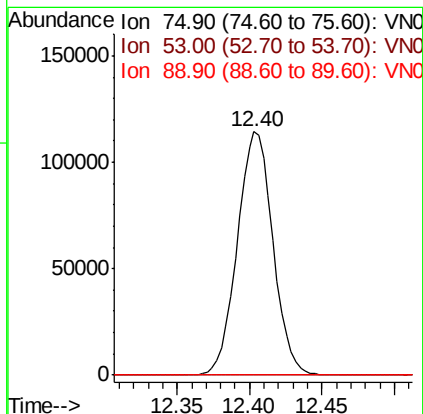
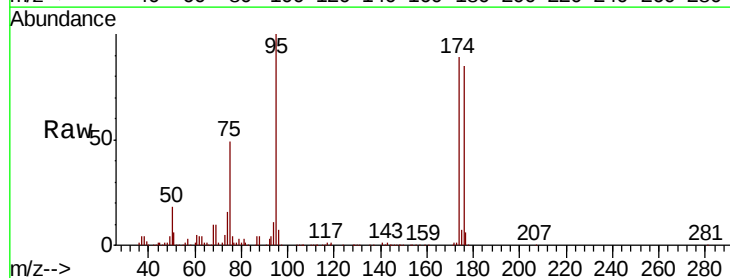
Tgt Ion: 75 Resp: 194599

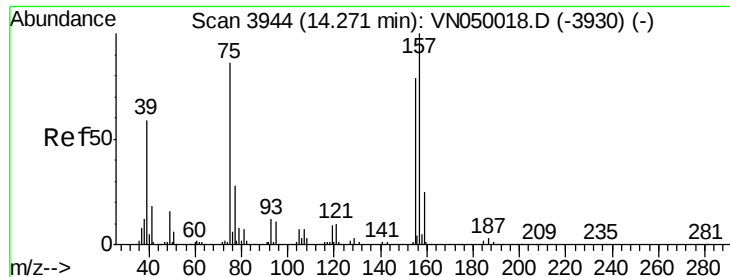
Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.50 min Scan# 4015

Delta R.T. 0.23 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

Instrument :

MSVOA_N

ClientSampleId :

CL-01-073018-B

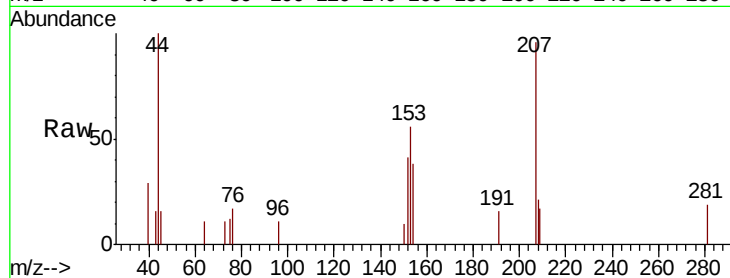
Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

155 139.7 44.8 134.4#

157 0.0 57.2 171.6#

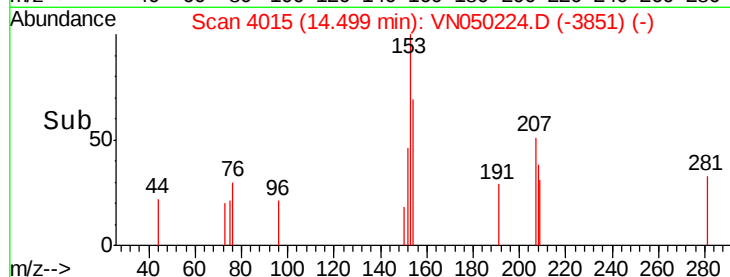


Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)

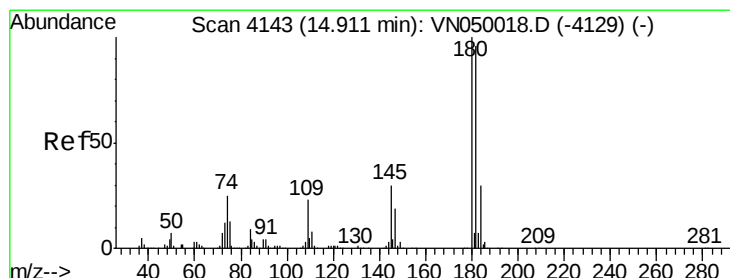
Ion 154.80 (154.50 to 155.50): VN050018.D (-3930) (-)

Ion 156.80 (156.50 to 157.50): VN050018.D (-3930) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.09 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050224.D

Acq: 31 Jul 2018 19:01

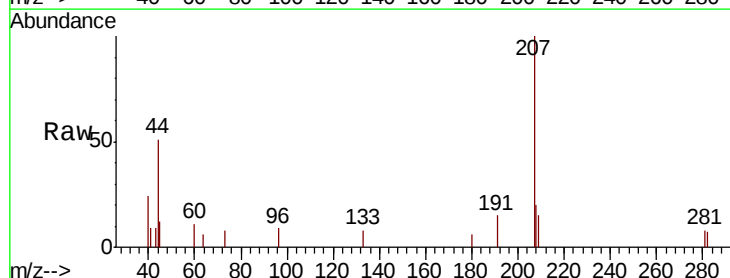
Tgt Ion: 180 Resp: 29

Ion Ratio Lower Upper

180 100

182 0.0 46.7 140.1#

145 0.0 13.8 41.4#

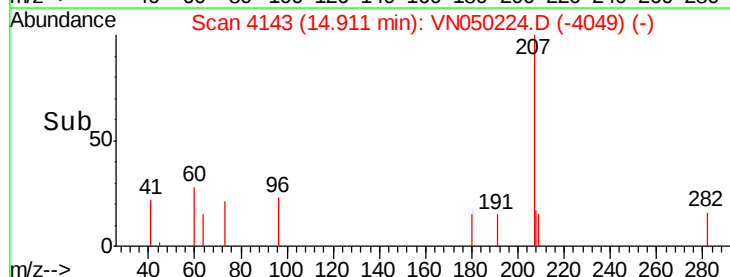


Abundance Ion 179.80 (179.50 to 180.50): VN050018.D (-4129) (-)

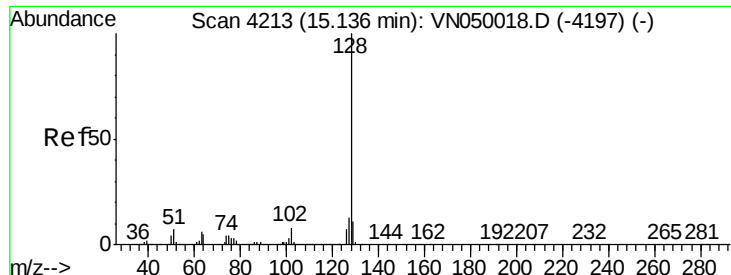
Ion 181.80 (181.50 to 182.50): VN050018.D (-4129) (-)

Ion 144.80 (144.50 to 145.50): VN050018.D (-4129) (-)

Time-->



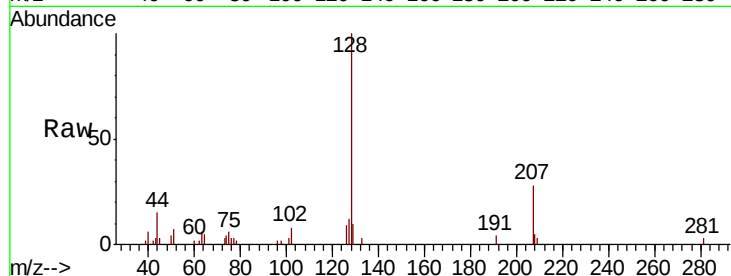
Time-->



#95
Naphthalene
Concen: 5.50 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050224.D
Acq: 31 Jul 2018 19:01

Instrument :
MSVOA_N
ClientSampleId :
CL-01-073018-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.4	15.6
129	9.9	8.8	13.2



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

