

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112018\
 Data File : VN052418.D
 Acq On : 20 Nov 2018 19:59
 Operator : MD\SY
 Sample : J5775-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 20 23:57:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	302503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	506710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	430495	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142314	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	224726	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
35) Dibromofluoromethane	7.59	113	168450	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
50) Toluene-d8	10.09	98	643310	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	12.40	95	184892	43.71	ug/l	0.00
Spiked Amount			Recovery	=	87.42%	

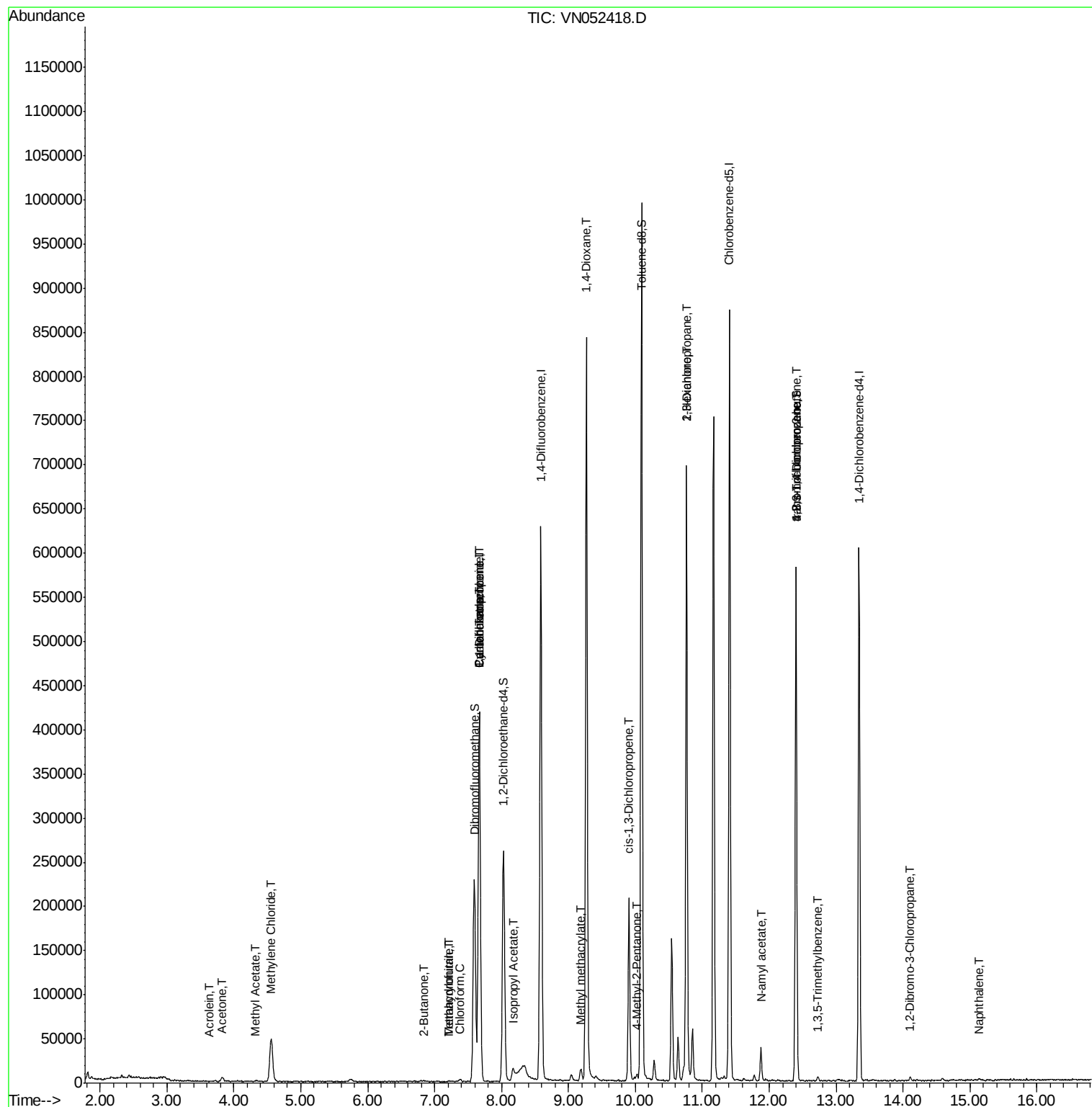
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	180	22.253	ug/l #	74
16) Acetone	3.82	43	8721	7.414	ug/l	91
18) Methyl Acetate	4.32	43	940	0.714	ug/l #	50
20) Methylene Chloride	4.56	84	32568	8.519	ug/l	97
25) 2-Butanone	6.84	43	1085	0.655	ug/l #	52
29) Tetrahydrofuran	7.21	42	333	0.306	ug/l #	48
30) Chloroform	7.38	83	2379	0.357	ug/l	94
31) Cyclohexane	7.66	56	9243	0.370	ug/l #	32
36) 1,1-Dichloropropene	7.67	75	29425	5.794	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33017	7.076	ug/l #	16
41) Methacrylonitrile	7.22	41	331	3.845	ug/l #	100
43) Isopropyl Acetate	8.17	43	17746	2.495	ug/l #	95
48) Methyl methacrylate	9.18	41	4822	1.336	ug/l #	43
49) 1,4-Dioxane	9.27	88	64	2.310	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	4971	1.388	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	29328	5.215	ug/l #	77
57) 1,3-Dichloropropane	10.77	76	6503	1.167	ug/l #	43
59) 2-Hexanone	10.76	43	118012	47.922	ug/l #	54
74) N-amyl acetate	11.88	43	13108	3.216	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	107425	44.486	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1859	0.204	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	107425	144.286	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.11	75	97	0.238	ug/l #	3
95) Naphthalene	15.13	128	1986	2.978	ug/l #	81

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

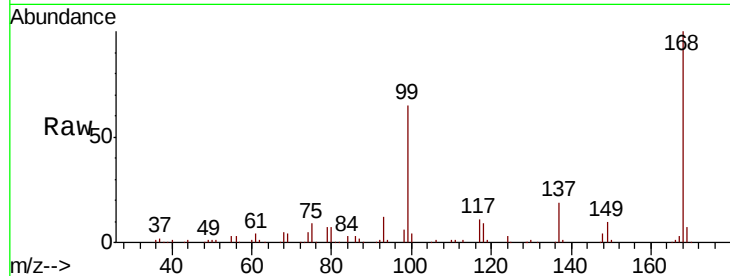
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 302503

Ion Ratio Lower Upper

168 100

99 65.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

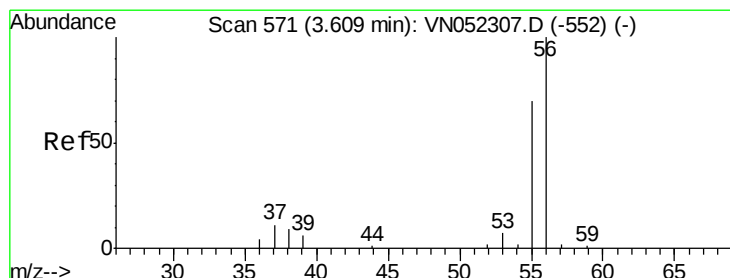
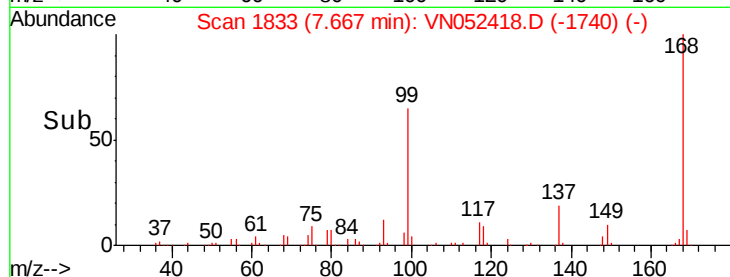
100000

50000

0

Time-->

7.60 7.70



#13

Acrolein

Concen: 22.253 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052418.D

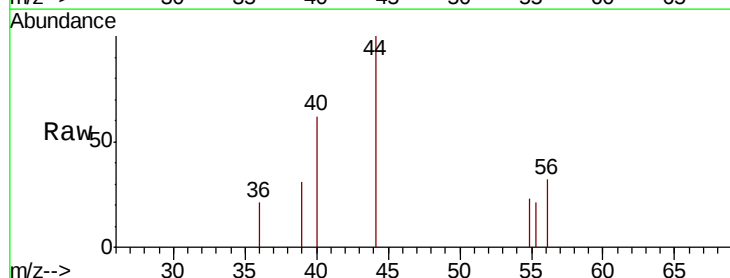
Acq: 20 Nov 2018 19:59

Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 93.3 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

400

300

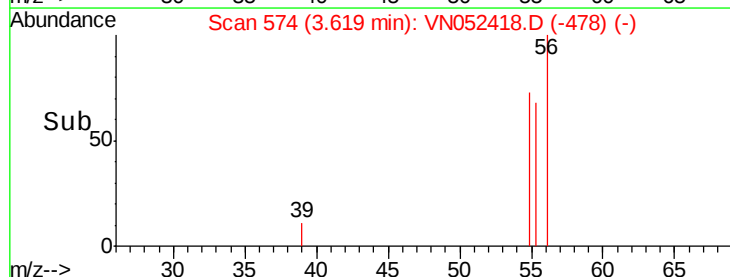
200

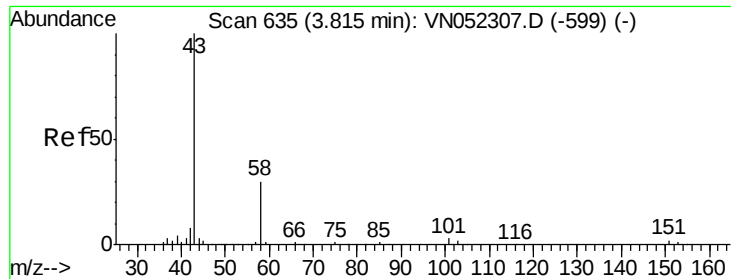
100

0

Time-->

3.60 3.61 3.62 3.63 3.64





#16

Acetone

Concen: 7.414 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

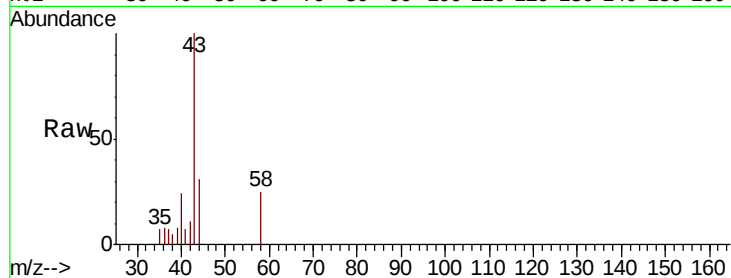
ClientSampled :

Tot Ion: 43 Resp: 8721

Ion Ratio Lower Upper

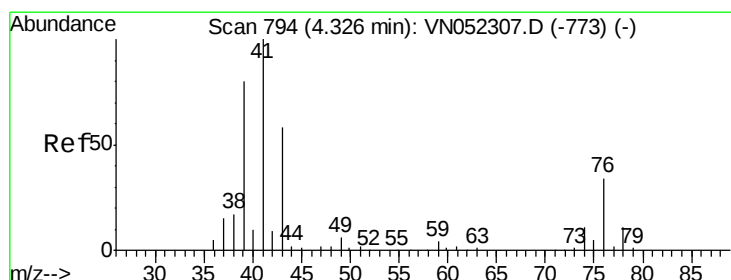
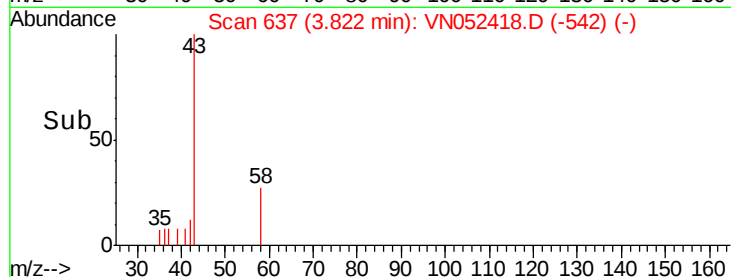
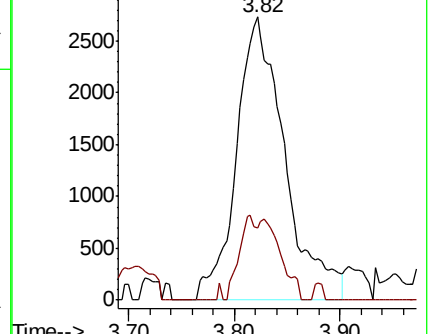
43 100

58 25.4 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-599) (-)



#18

Methyl Acetate

Concen: 0.714 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN052418.D

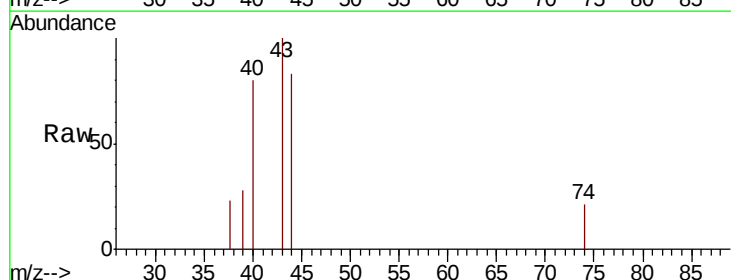
Acq: 20 Nov 2018 19:59

Tgt Ion: 43 Resp: 940

Ion Ratio Lower Upper

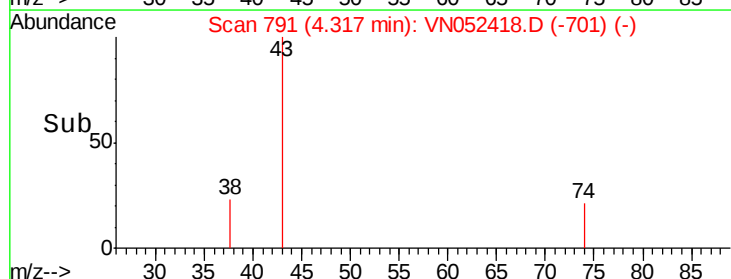
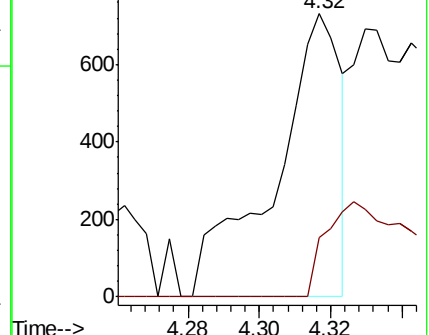
43 100

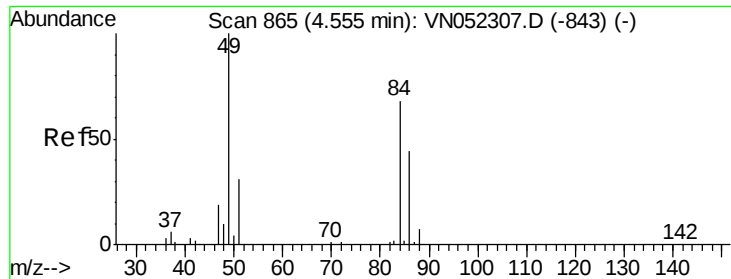
74 42.7 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-773) (-)

Ion 74.00 (73.70 to 74.70): VN052307.D (-773) (-)

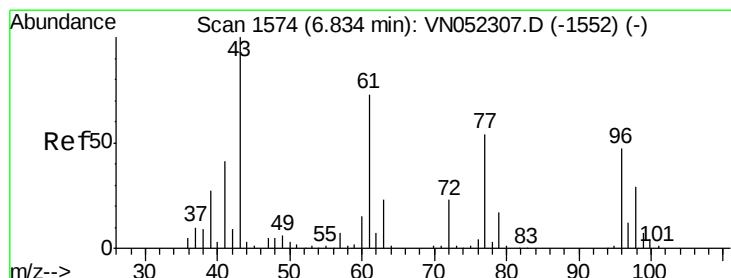
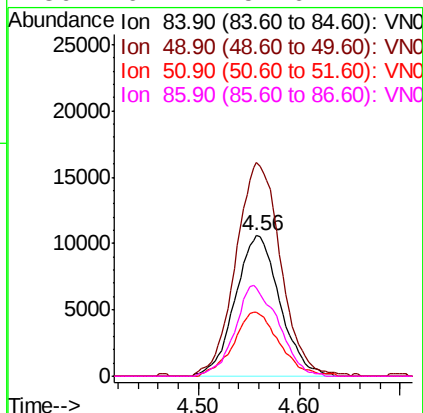
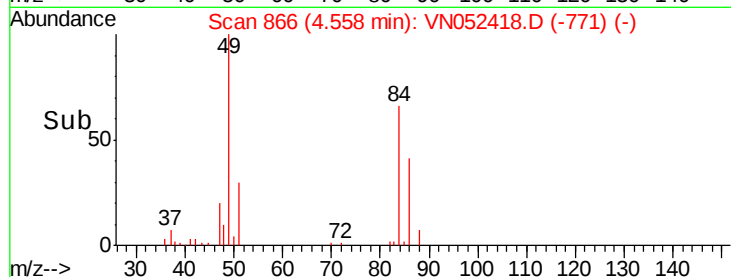
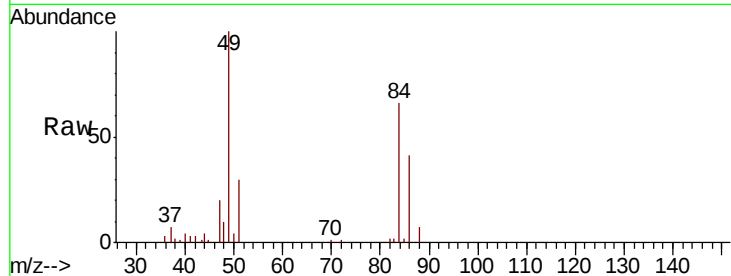




#20
Methvlene Chloride
Concen: 8.519 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

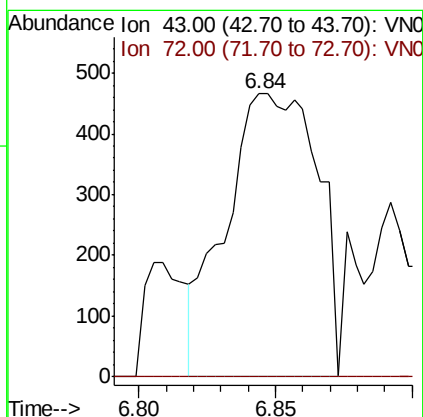
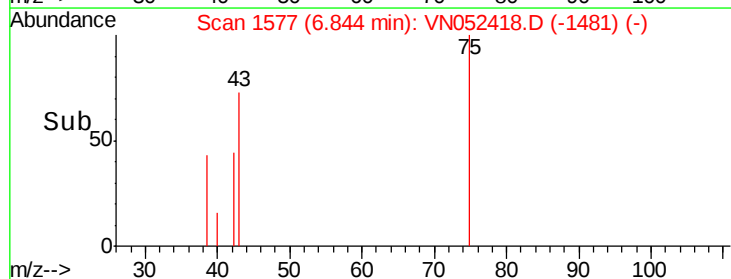
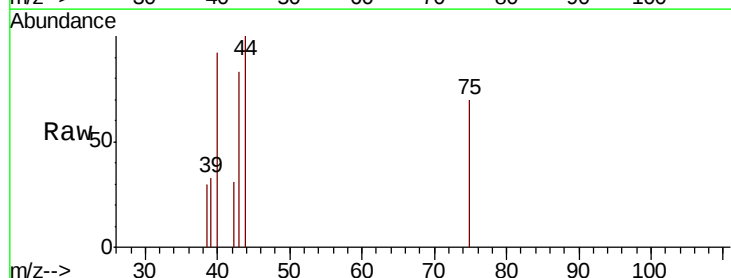
Instrument :
MSVOA_N
ClientSampled :

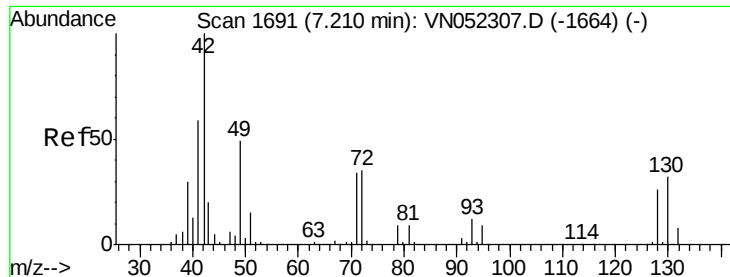
Tot Ion: 84 Resp: 32568
Ion Ratio Lower Upper
84 100
49 151.7 118.2 177.2
51 45.1 36.1 54.1
86 62.4 51.6 77.4



#25
2-Butanone
Concen: 0.655 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion: 43 Resp: 1085
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#





#29

Tetrahydrofuran

Concen: 0.306 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

ClientSampleId :

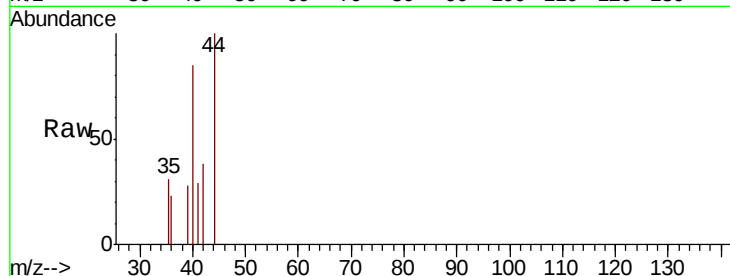
Tot Ion: 42 Resp: 333

Ion Ratio Lower Upper

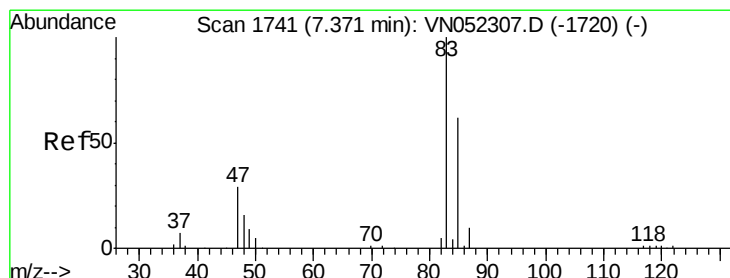
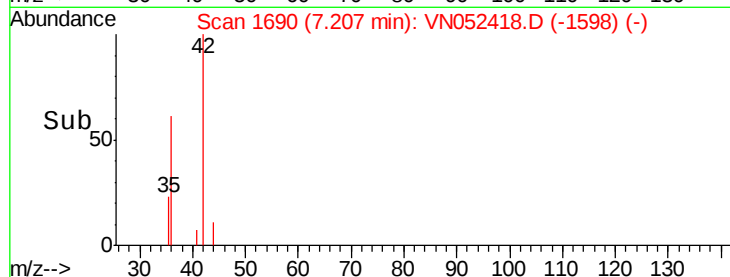
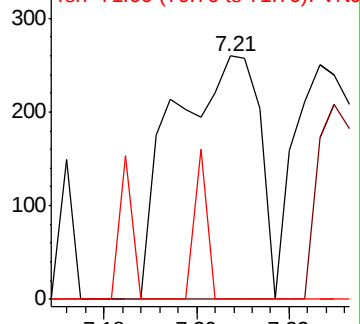
42 100

72 0.0 28.6 42.8#

71 9.3 26.7 40.1#



Abundance Ion 42.00 (41.70 to 42.70): VN052307.D (-1664) (-)



#30

Chloroform

Concen: 0.357 ug/l

RT: 7.38 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VN052418.D

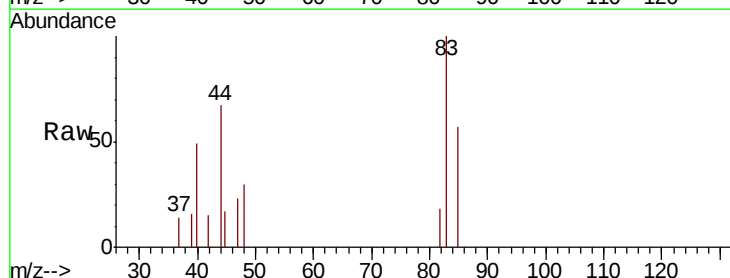
Acq: 20 Nov 2018 19:59

Tgt Ion: 83 Resp: 2379

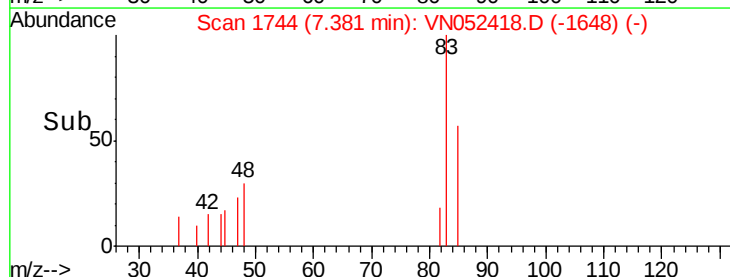
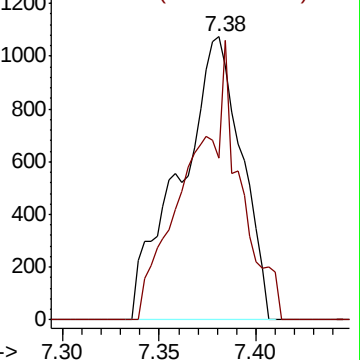
Ion Ratio Lower Upper

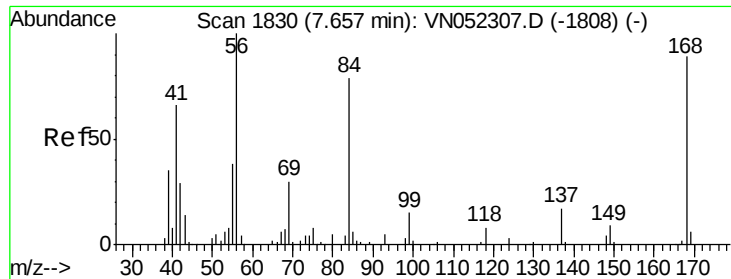
83 100

85 57.2 49.4 74.2



Abundance Ion 82.90 (82.60 to 83.60): VN052307.D (-1720) (-)

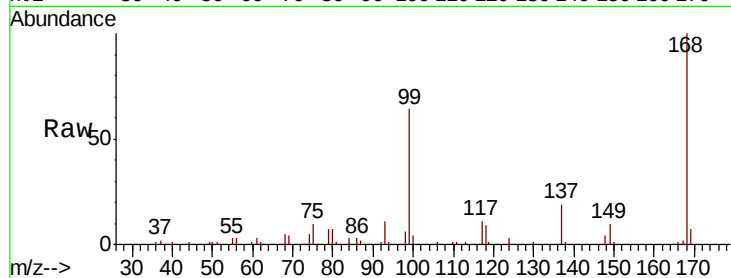




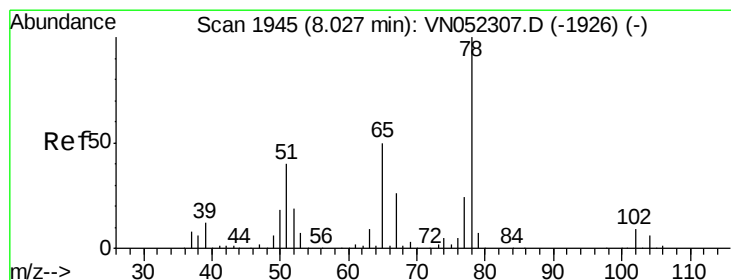
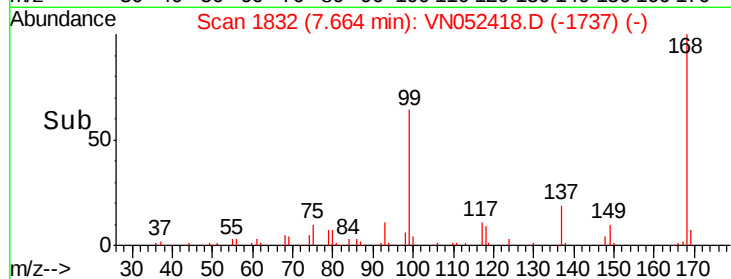
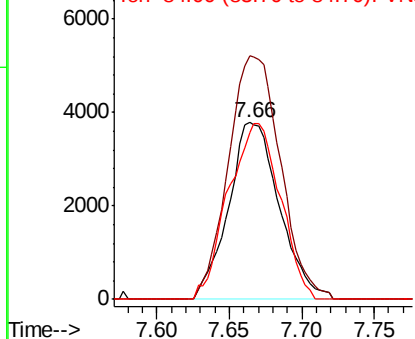
#31
Cyclohexane
Concen: 0.370 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 9243
Ion Ratio Lower Upper
56 100
69 137.9 23.8 35.8#
84 94.2 63.0 94.6

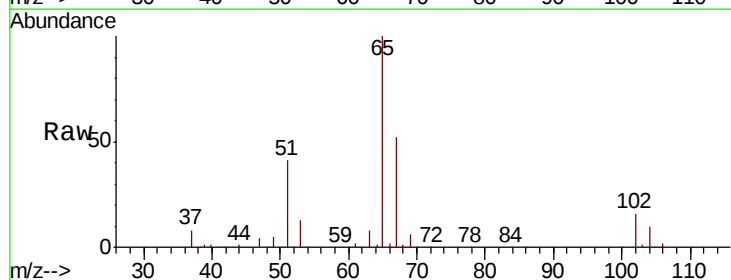


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

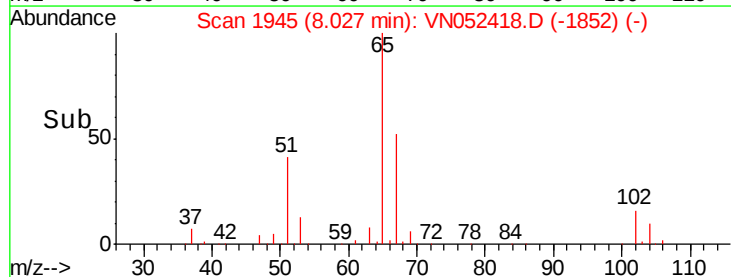
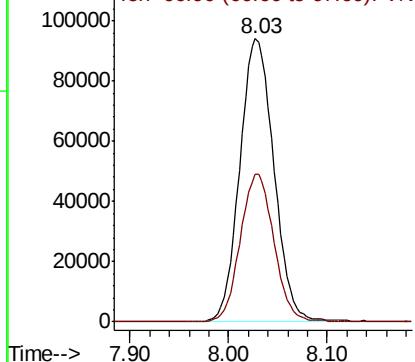


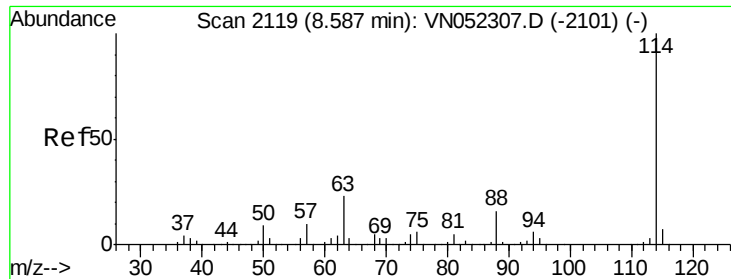
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion: 65 Resp: 224726
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.2



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

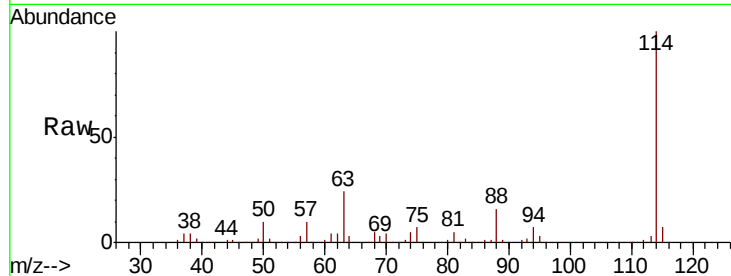




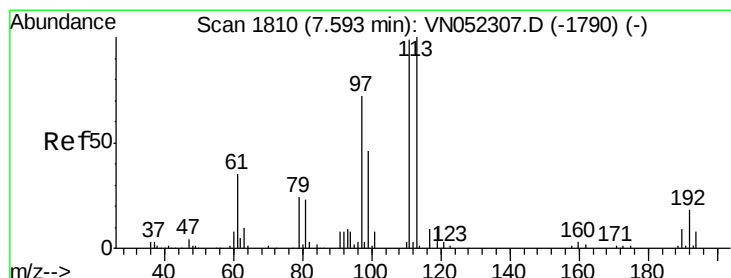
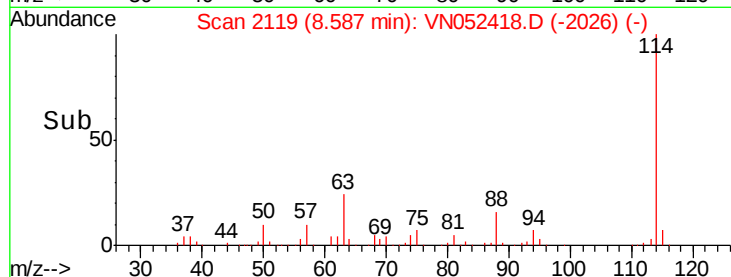
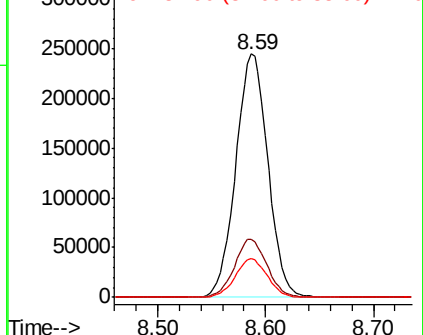
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	45.4
88	15.8	0.0	31.2

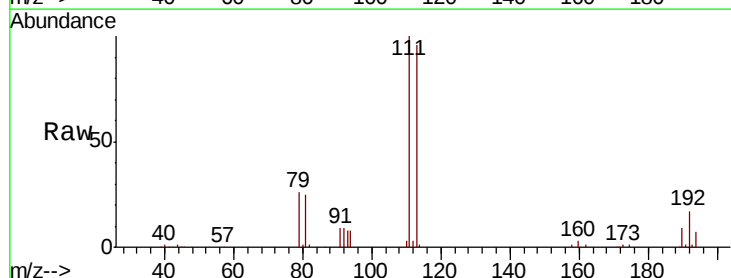


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

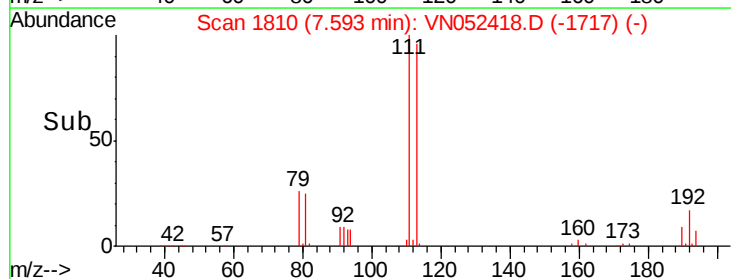
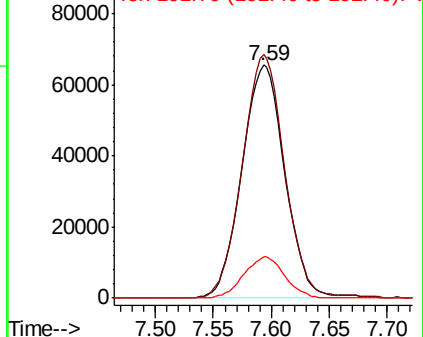


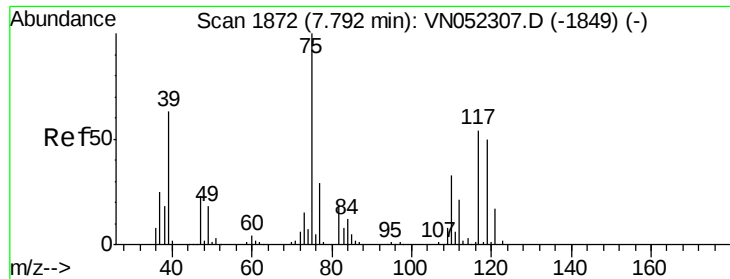
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.0	121.6
192	16.9	13.8	20.6



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

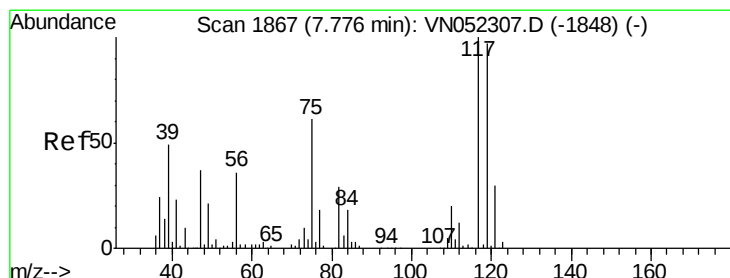
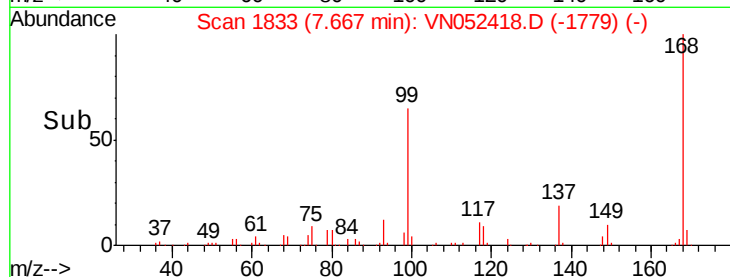
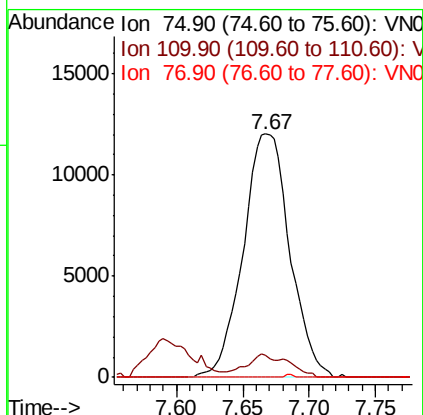
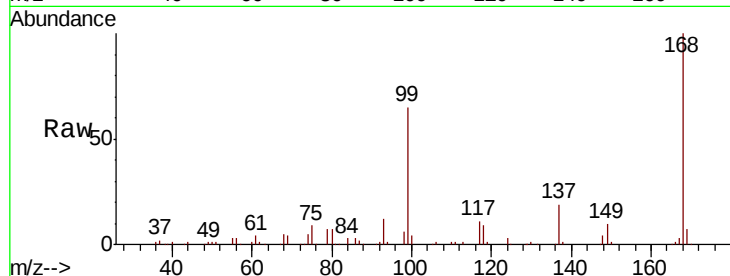




#36
 1,1-Dichloropropene
 Concen: 5.794 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052418.D
 Acq: 20 Nov 2018 19:59

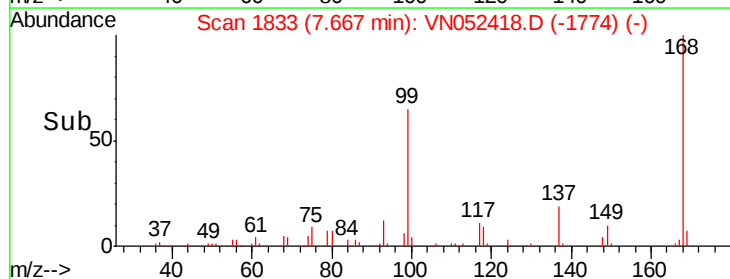
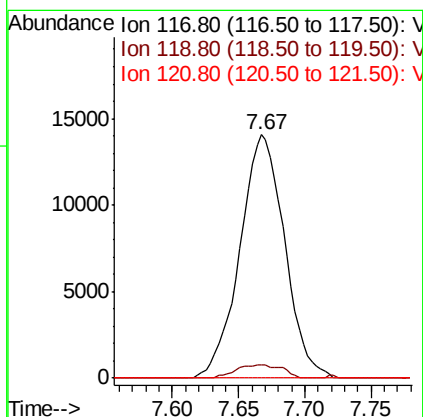
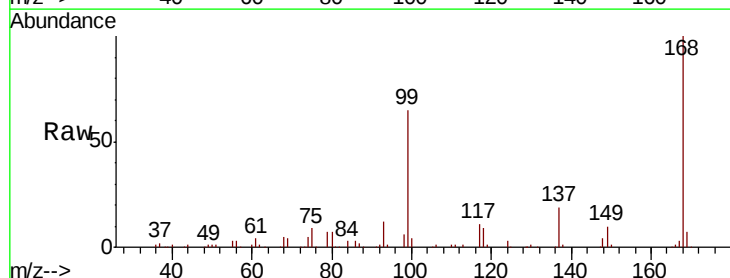
Instrument :
 MSVOA_N
 ClientSampleId :

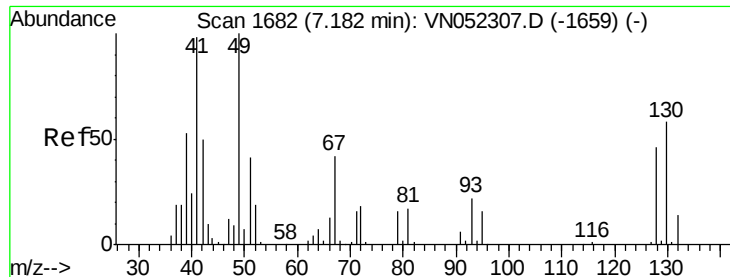
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.5	49.5#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 7.076 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052418.D
 Acq: 20 Nov 2018 19:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	77.4	116.0#
121	0.0	24.0	36.0#

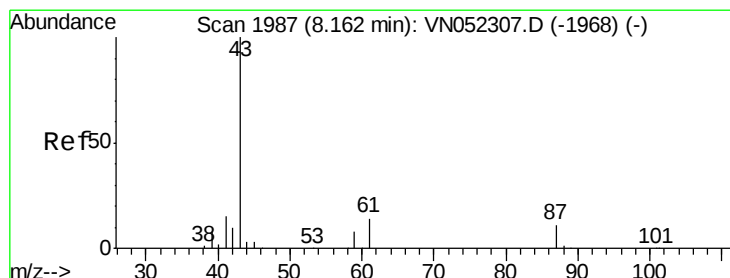
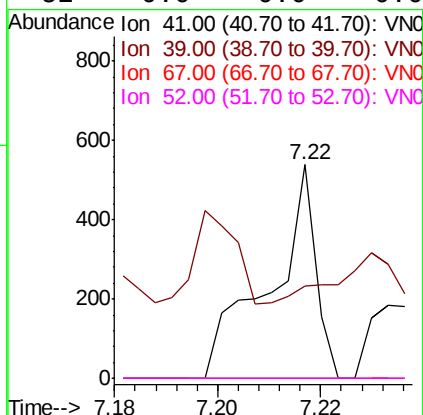
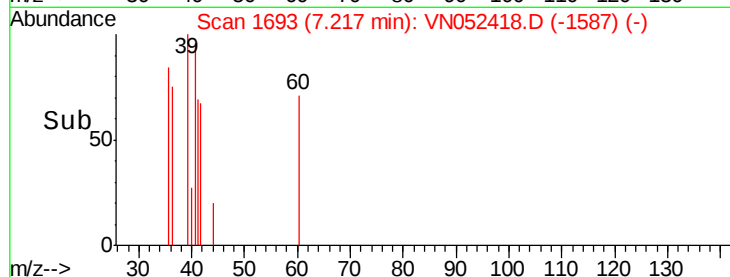
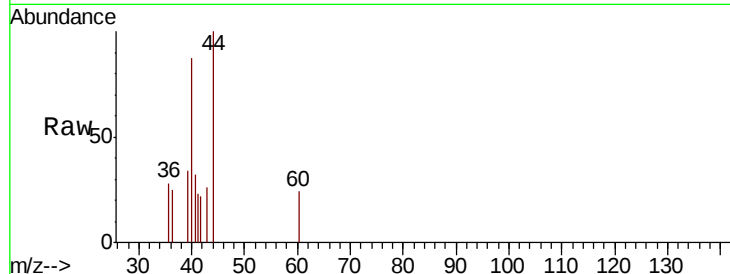




#41
Methacrylonitrile
Concen: 3.845 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.04 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

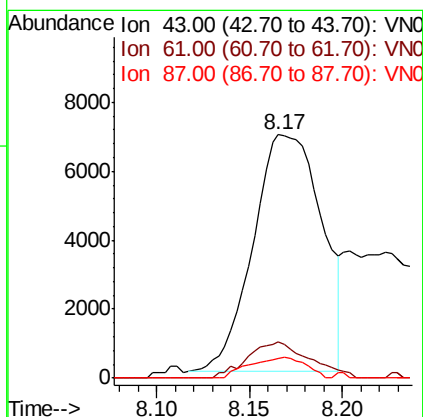
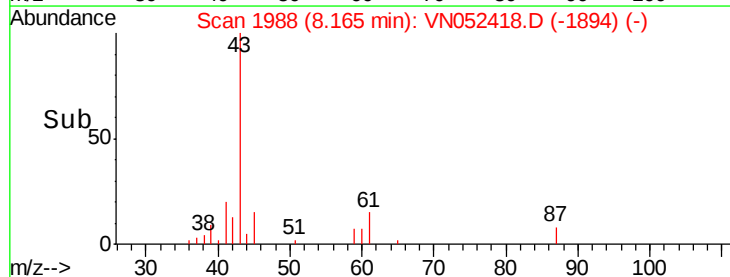
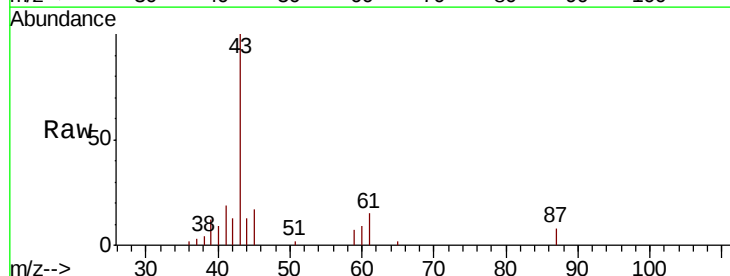
Instrument :
MSVOA_N
ClientSampled :

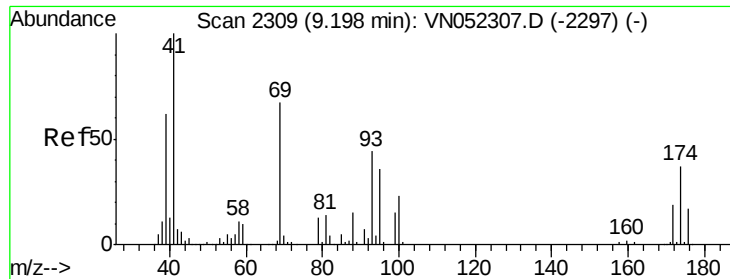
Tot Ion:	41	Resp:	331
Ion	Ratio	Lower	Upper
41	100		
39	92.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.495 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion:	43	Resp:	17746
Ion	Ratio	Lower	Upper
43	100		
61	13.8	12.0	18.0
87	7.2	8.3	12.5#

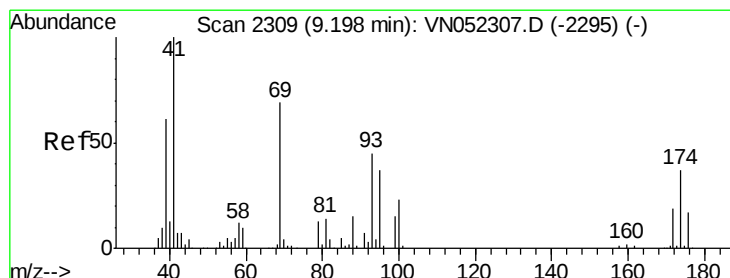
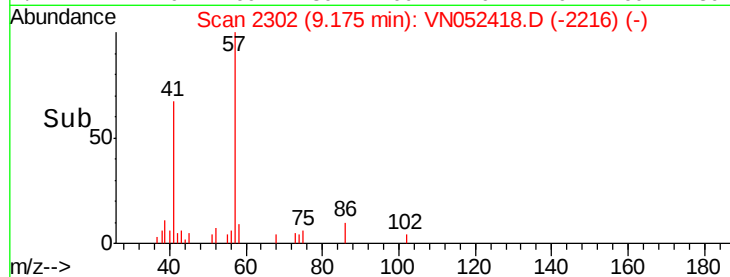
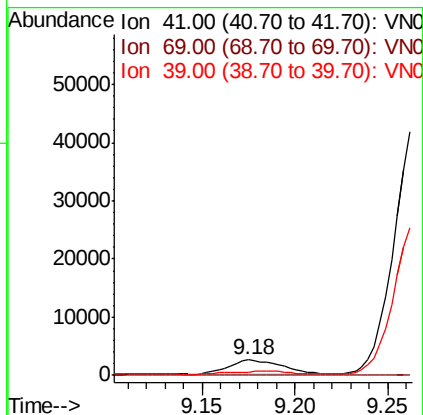
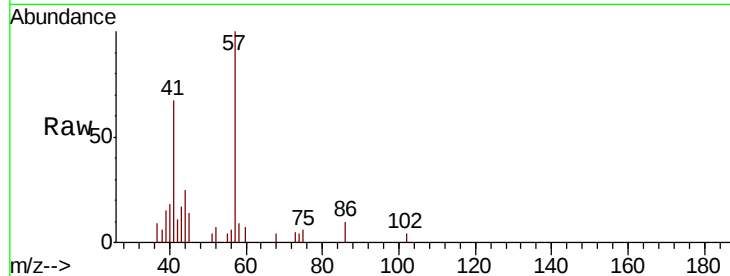




#48
Methvl methacrylate
Concen: 1.336 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

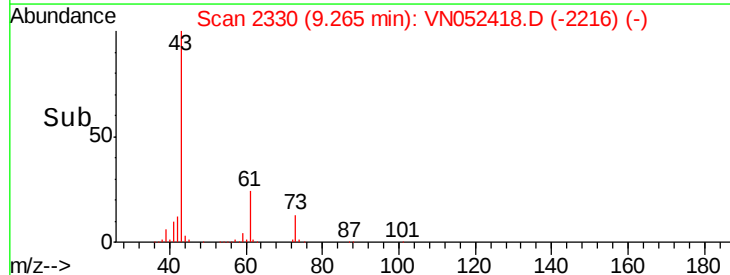
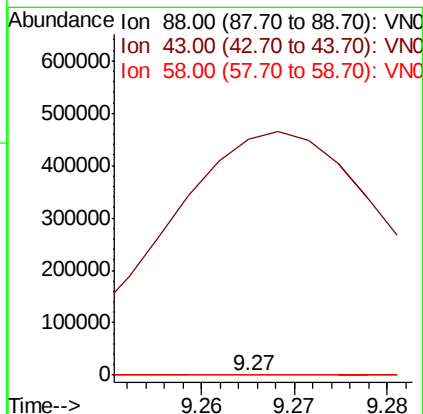
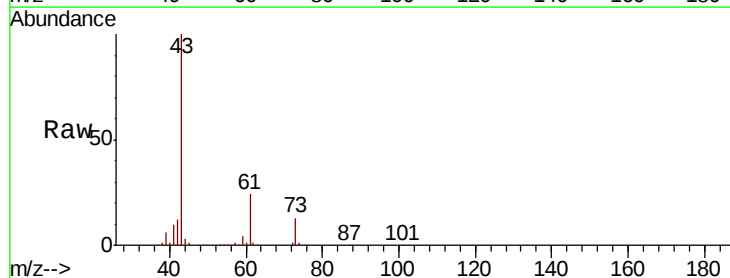
Instrument :
MSVOA_N
ClientSampled :

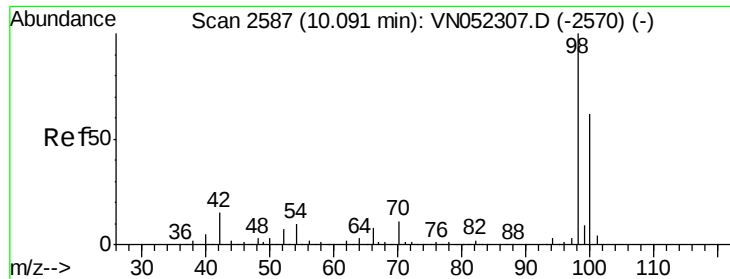
Tot Ion: 41 Resp: 4822
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 45.9 52.5 78.7#



#49
1,4-Dioxane
Concen: 2.310 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 1354582.8 33.3 49.9#
58 5743.8 59.2 88.8#





#50

Toluene-d8

Concen: 2.310 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

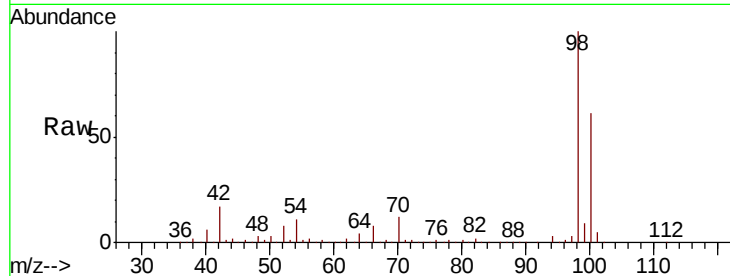
ClientSampleId :

Tot Ion: 98 Resp: 643310

Ion Ratio Lower Upper

98 100

100 61.9 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

400000

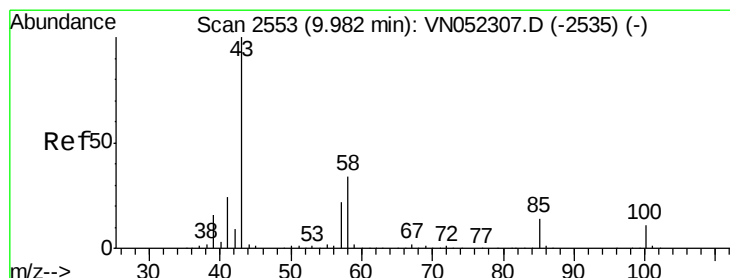
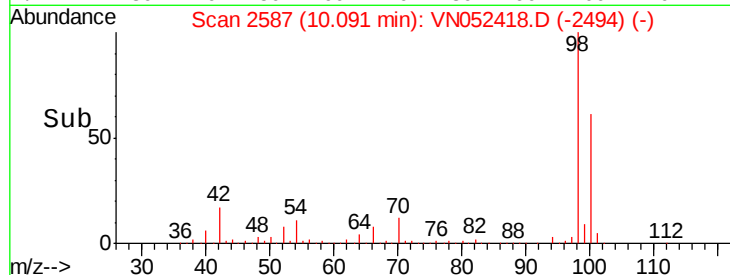
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.388 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052418.D

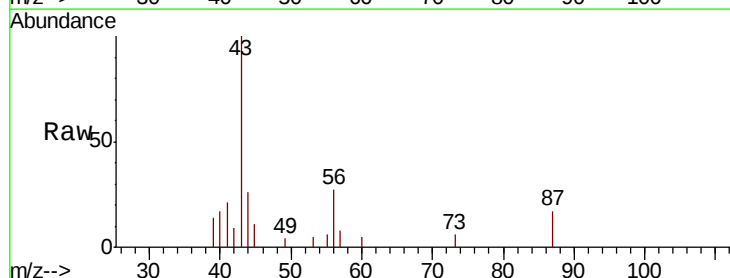
Acq: 20 Nov 2018 19:59

Tgt Ion: 43 Resp: 4971

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-2535) (-)

10.02

4000

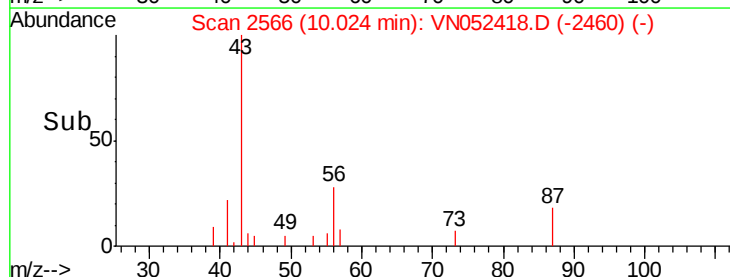
3000

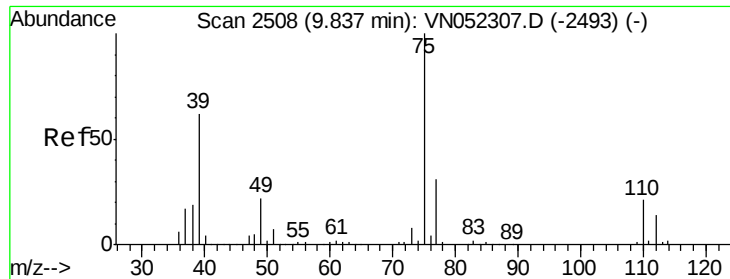
2000

1000

0

Time-->



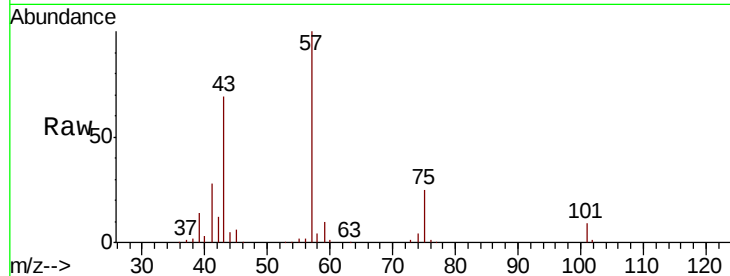


#54

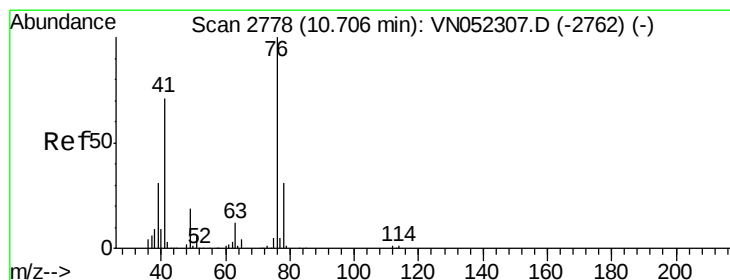
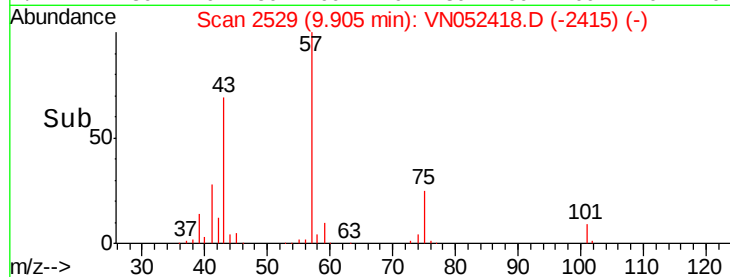
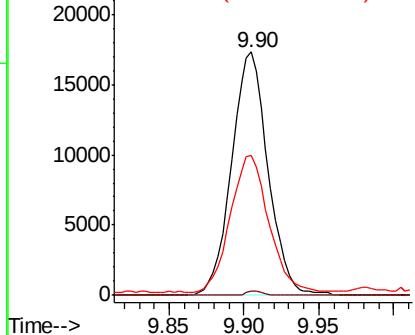
cis-1,3-Dichloropropene
 Concen: 5.215 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN052418.D
 Acq: 20 Nov 2018 19:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	1.5	24.6	36.8#
39	56.1	49.9	74.9



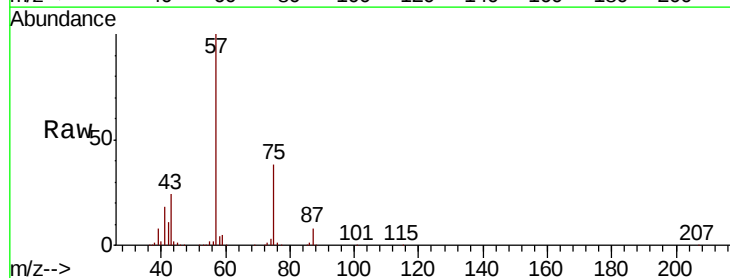
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



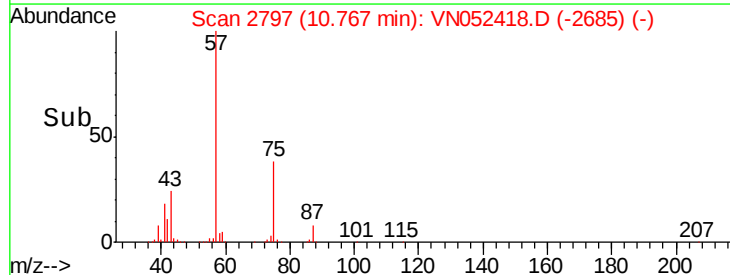
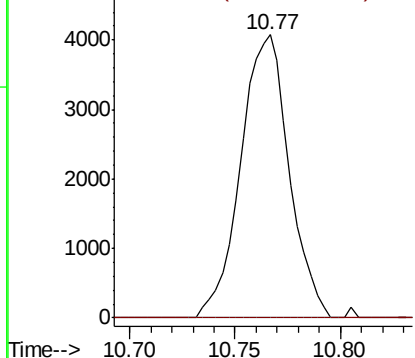
#57

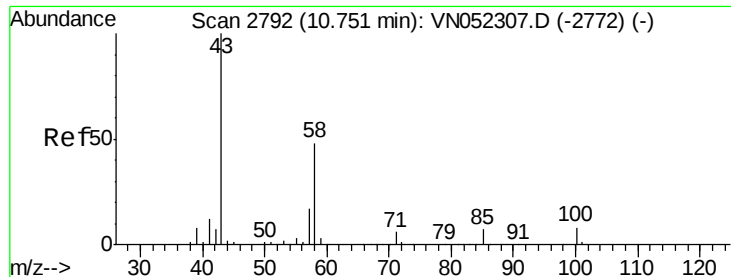
1,3-Dichloropropane
 Concen: 1.167 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052418.D
 Acq: 20 Nov 2018 19:59

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.7	38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

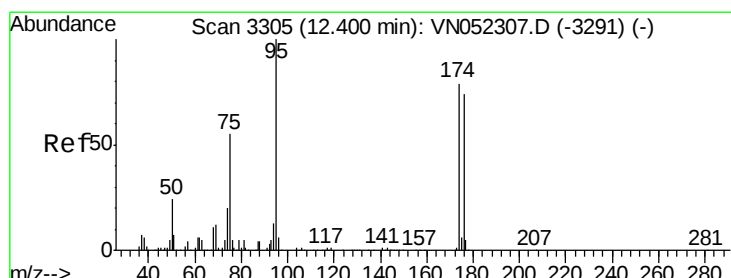
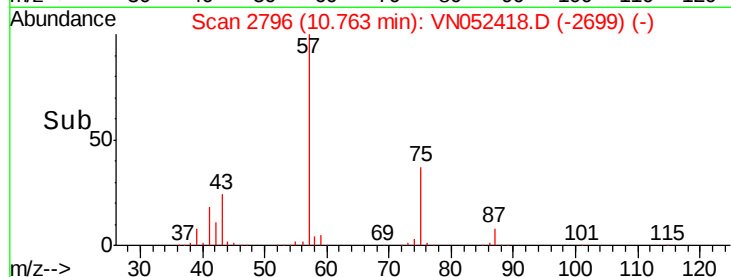
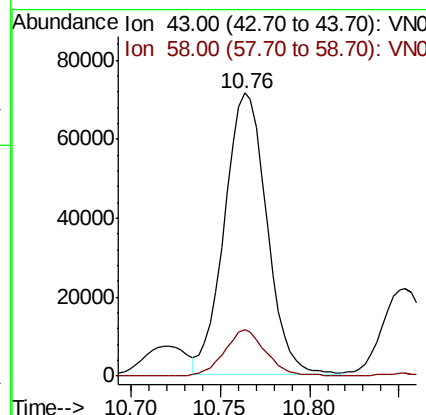
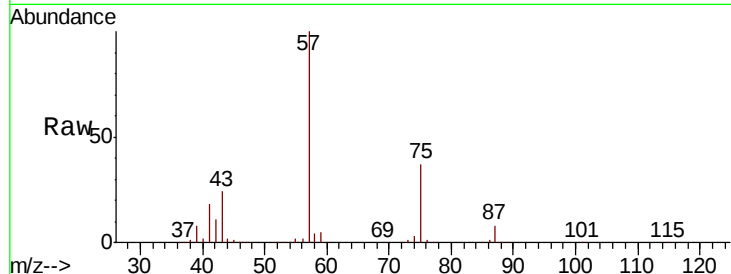




#59
2-Hexanone
Concen: 47.922 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

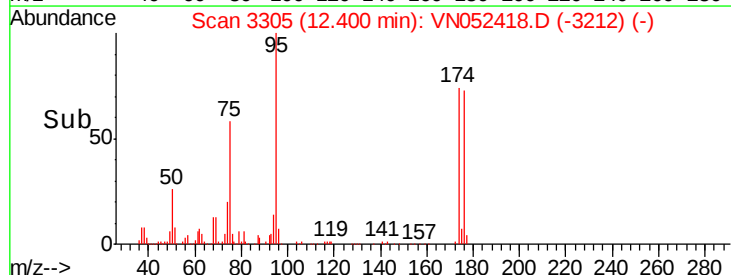
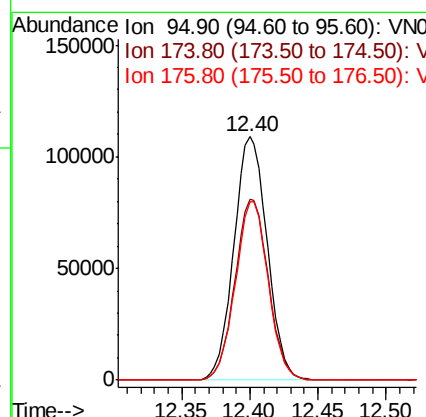
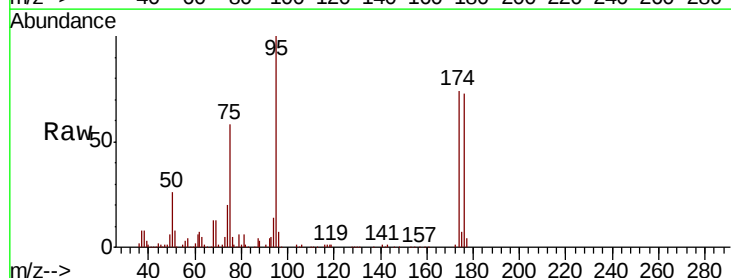
Instrument :
MSVOA_N
ClientSampled :

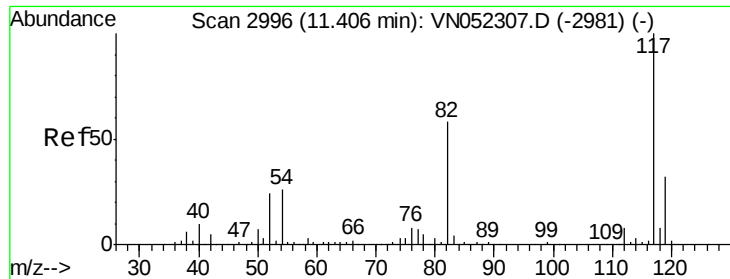
Tot Ion: 43 Resp: 118012
Ion Ratio Lower Upper
43 100
58 16.0 23.5 70.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052418.D
Acq: 20 Nov 2018 19:59

Tgt Ion: 95 Resp: 184892
Ion Ratio Lower Upper
95 100
174 74.5 0.0 156.0
176 72.2 0.0 148.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

ClientSampleId :

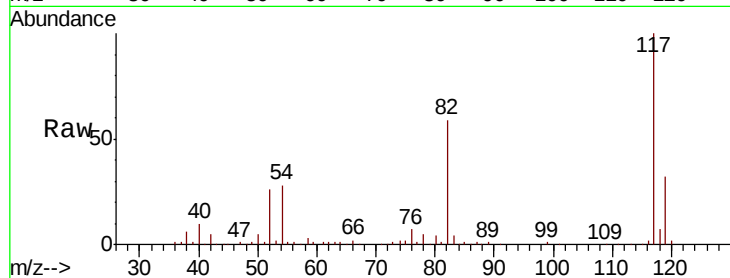
Tot Ion:117 Resp: 430495

Ion Ratio Lower Upper

117 100

82 59.2 46.5 69.7

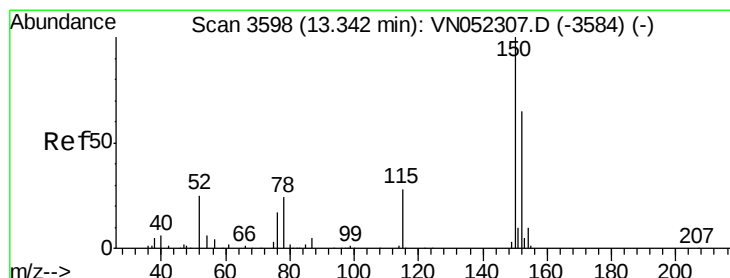
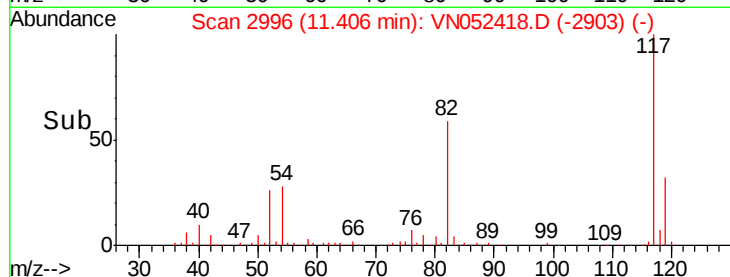
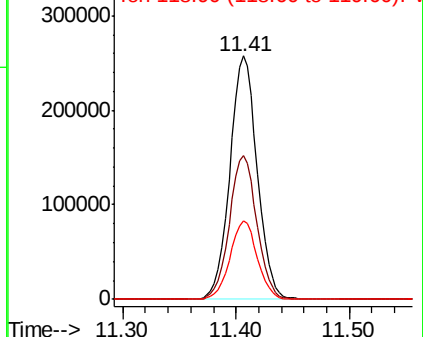
119 32.2 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

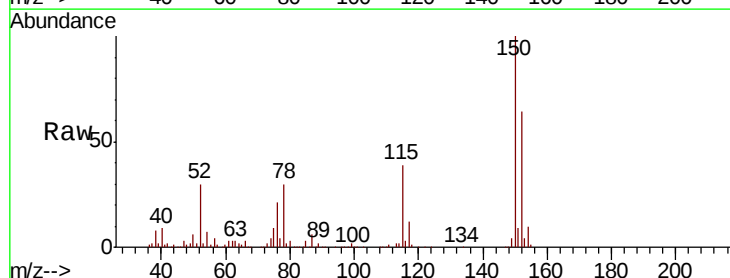
Tgt Ion:152 Resp: 142314

Ion Ratio Lower Upper

152 100

115 61.4 30.3 91.0

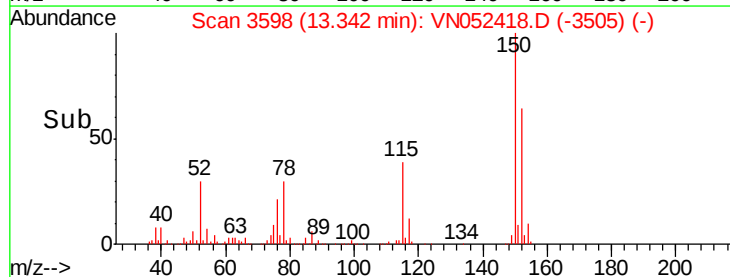
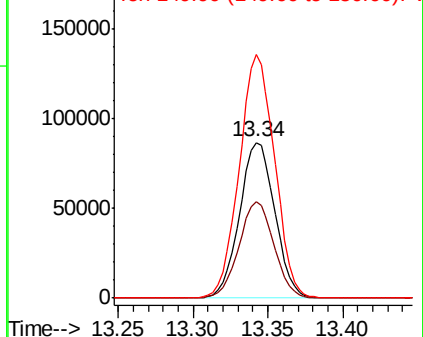
150 156.5 0.0 348.2

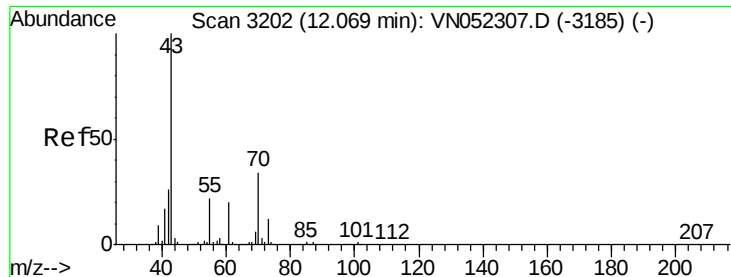


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.216 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 13108

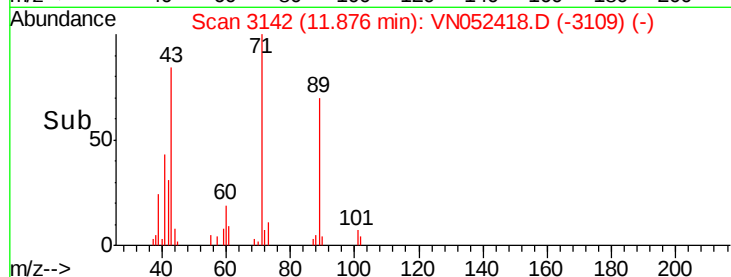
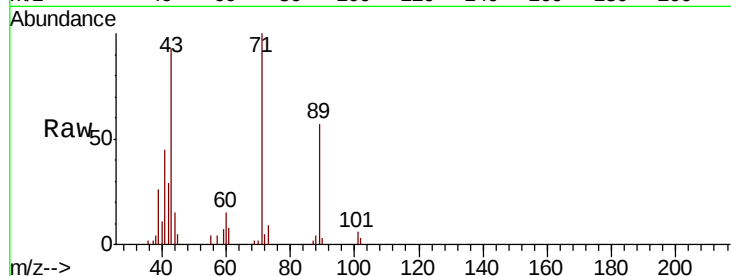
Ion Ratio Lower Upper

43 100

70 1.3 27.1 40.7#

55 5.5 17.4 26.0#

61 9.3 16.1 24.1#

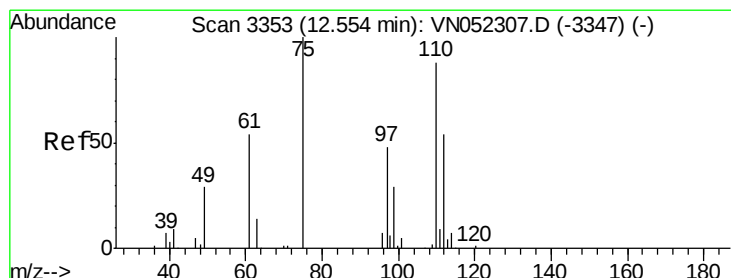
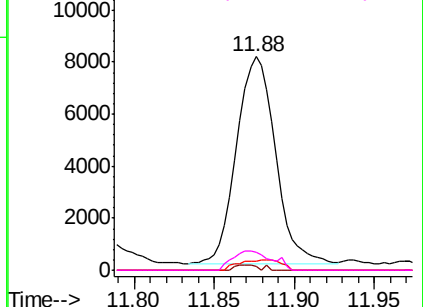


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 44.486 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052418.D

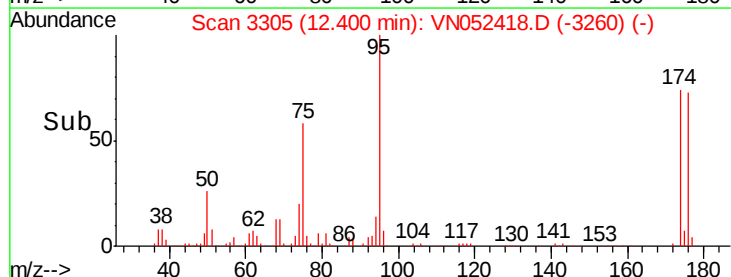
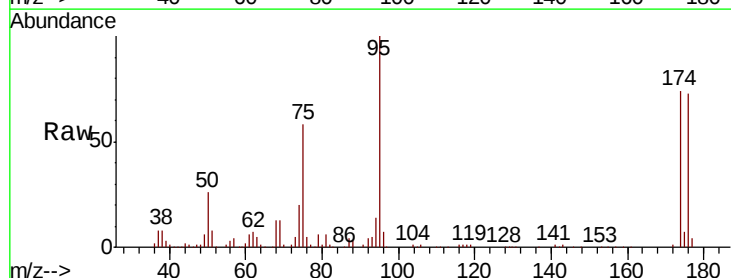
Acq: 20 Nov 2018 19:59

Tgt Ion: 75 Resp: 107425

Ion Ratio Lower Upper

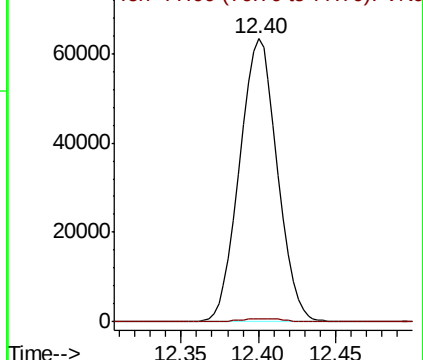
75 100

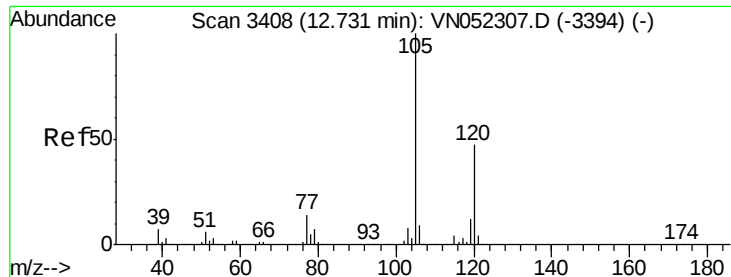
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.204 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

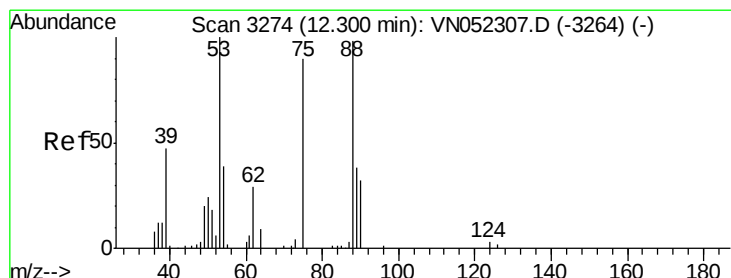
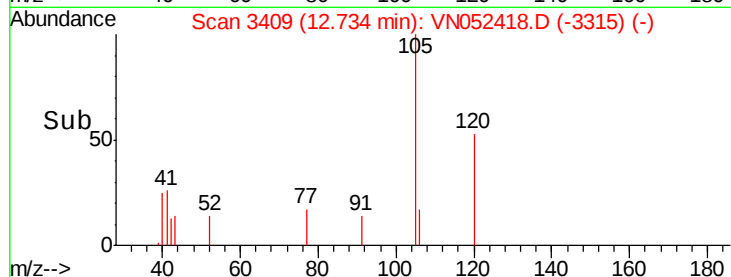
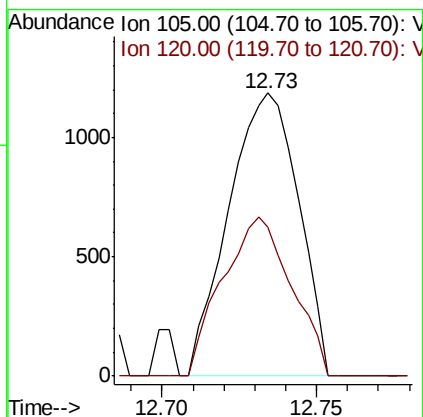
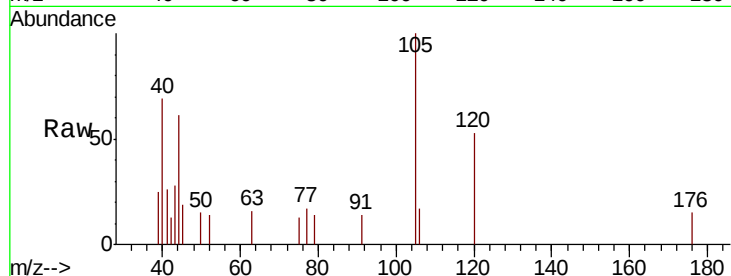
ClientSampled :

Tot Ion:105 Resp: 1859

Ion Ratio Lower Upper

105 100

120 55.6 23.7 71.1



#81

trans-1,4-Dichloro-2-butene

Concen: 144.286 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

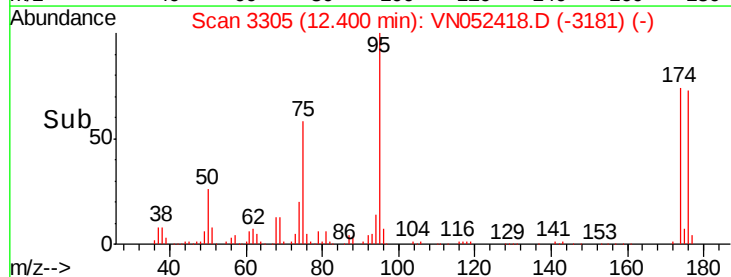
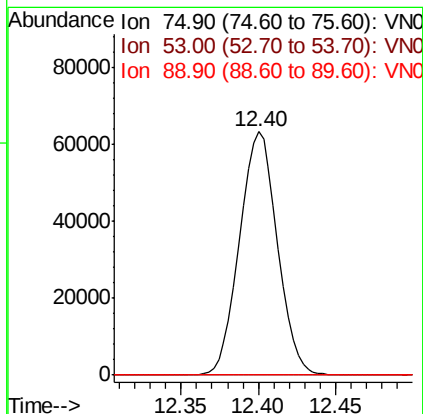
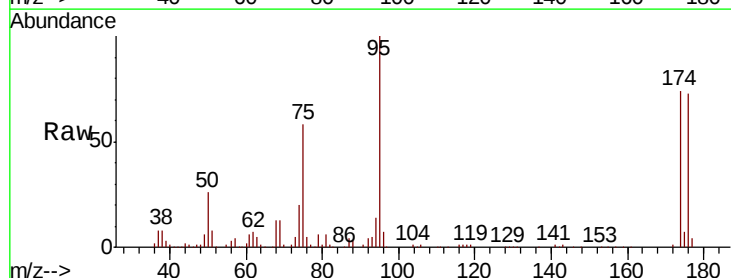
Tgt Ion: 75 Resp: 107425

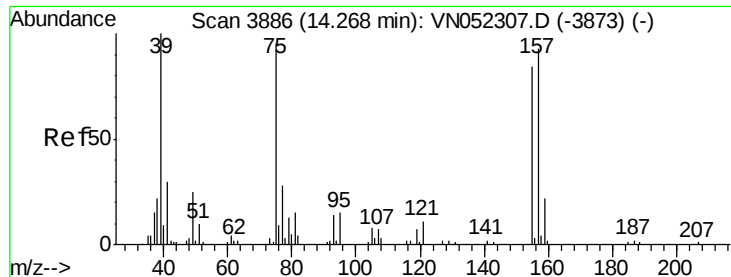
Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.238 ug/l

RT: 14.11 min Scan# 3836

Delta R.T. -0.16 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

Instrument :

MSVOA_N

ClientSampled :

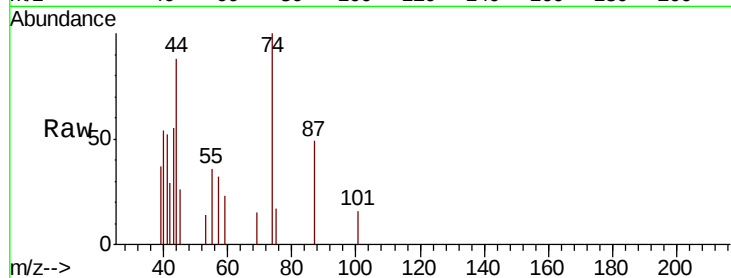
Tot Ion: 75 Resp: 97

Ion Ratio Lower Upper

75 100

155 0.0 42.4 127.3#

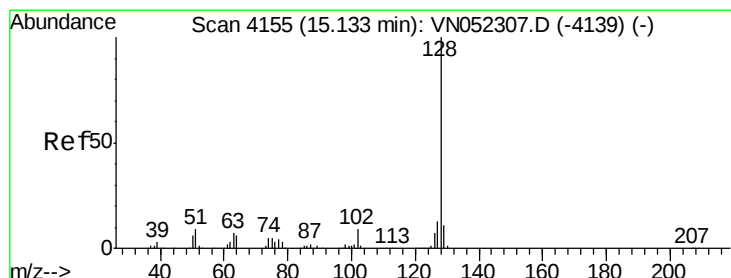
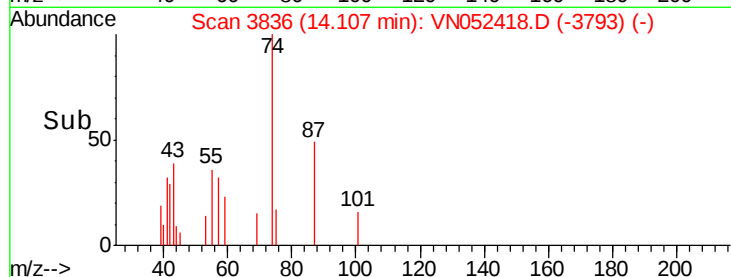
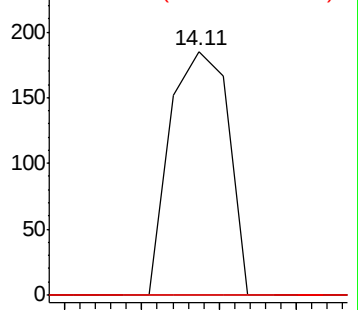
157 0.0 49.6 149.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3873) (-)

Ion 154.80 (154.50 to 155.50): VN052307.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN052307.D (-3873) (-)



#95

Naphthalene

Concen: 2.978 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052418.D

Acq: 20 Nov 2018 19:59

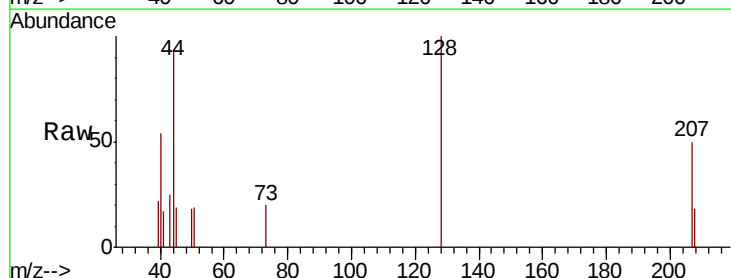
Tgt Ion: 128 Resp: 1986

Ion Ratio Lower Upper

128 100

127 8.4 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

