

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112018\
 Data File : VN052420.D
 Acq On : 20 Nov 2018 20:52
 Operator : MD\SY
 Sample : J5999-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 20 23:58:21 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

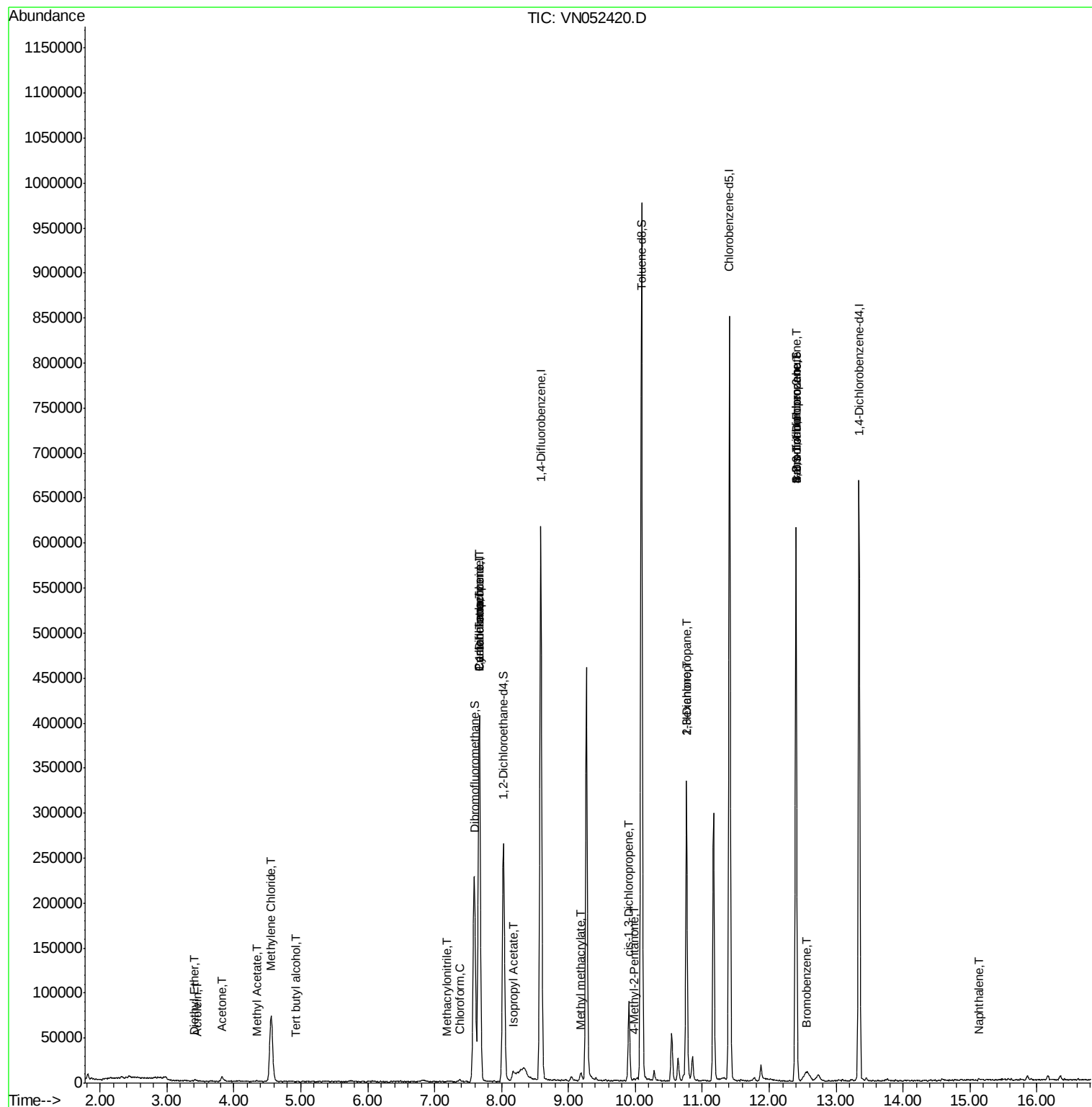
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	294497	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	499486	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	427659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150230	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	223048	53.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.26%	
35) Dibromofluoromethane	7.59	113	167857	52.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.20%	
50) Toluene-d8	10.09	98	633924	50.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	188772	45.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.56%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.42	74	752	0.380	ug/l	91
11) Tert butyl alcohol	4.94	59	66	0.300	ug/l #	72
13) Acrolein	3.46	56	58	21.930	ug/l #	14
16) Acetone	3.82	43	8580	7.492	ug/l #	83
18) Methyl Acetate	4.33	43	101	0.463	ug/l #	57
20) Methylene Chloride	4.56	84	47759	13.192	ug/l	98
30) Chloroform	7.38	83	1674	0.258	ug/l	84
31) Cyclohexane	7.66	56	9335	0.425	ug/l #	37
36) 1,1-Dichloropropene	7.67	75	29029	5.798	ug/l #	50
38) Carbon Tetrachloride	7.67	117	32343	7.032	ug/l #	15
41) Methacrylonitrile	7.18	41	173	3.775	ug/l #	100
43) Isopropyl Acetate	8.17	43	14164	2.020	ug/l #	72
48) Methyl methacrylate	9.18	41	4070	1.144	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1334	0.378	ug/l #	80
54) cis-1,3-Dichloropropene	9.91	75	12618	2.276	ug/l #	80
57) 1,3-Dichloropropane	10.76	76	2980	0.542	ug/l #	43
59) 2-Hexanone	10.76	43	55025	22.668	ug/l #	55
71) Bromoform	12.40	173	2591	1.424	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	109974	43.142	ug/l #	100
77) Bromobenzene	12.55	156	5940	2.114	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	109974	139.926	ug/l #	5
95) Naphthalene	15.14	128	1153	2.810	ug/l #	83

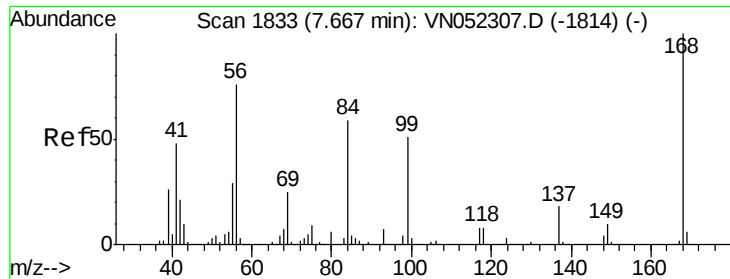
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052420.D

Acq: 20 Nov 2018 20:52

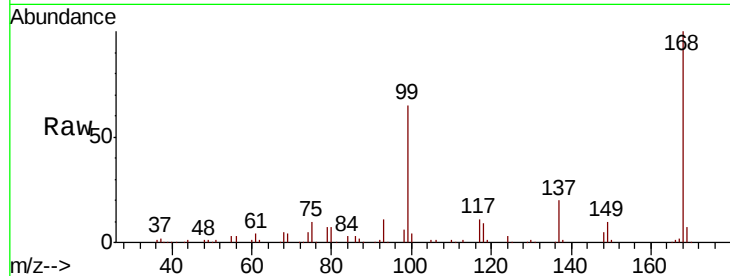
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 294497

Ion Ratio Lower Upper

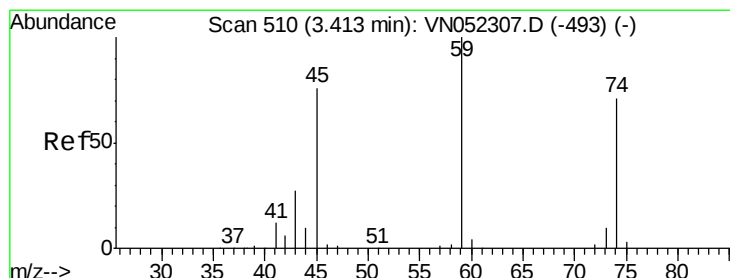
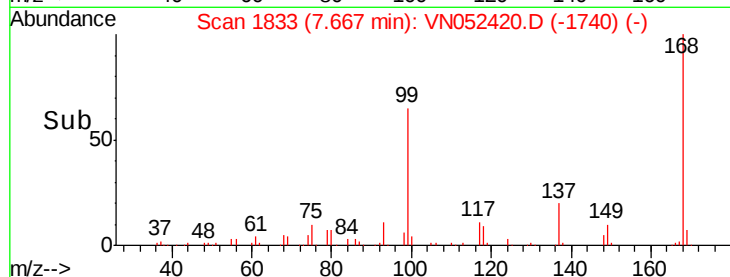
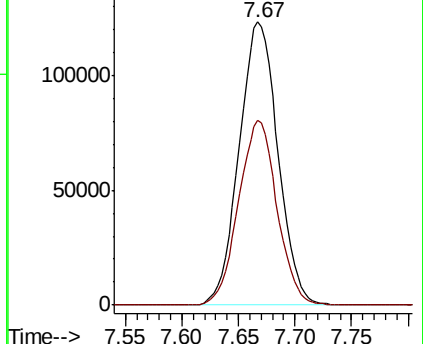
168 100

99 65.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#8

Diethyl Ether

Concen: 0.380 ug/l

RT: 3.42 min Scan# 513

Delta R.T. 0.01 min

Lab File: VN052420.D

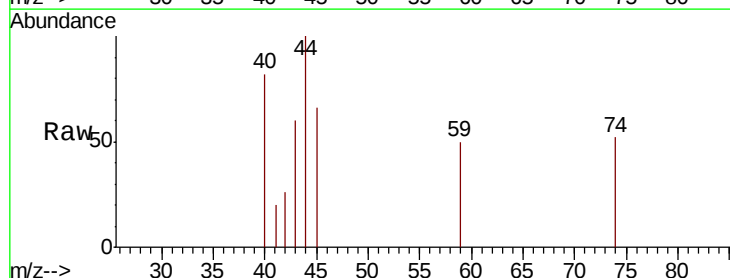
Acq: 20 Nov 2018 20:52

Tgt Ion: 74 Resp: 752

Ion Ratio Lower Upper

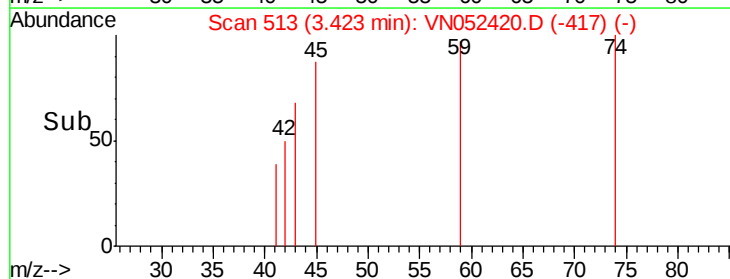
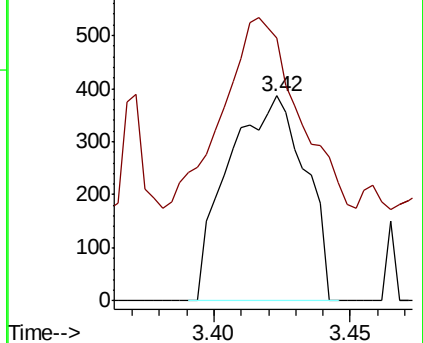
74 100

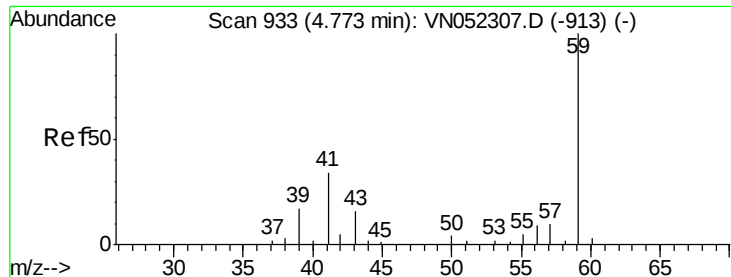
45 117.7 54.3 162.9



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

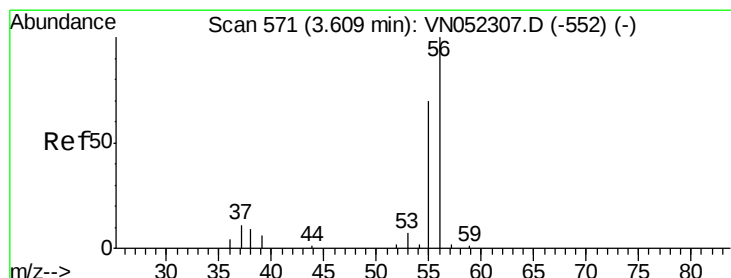
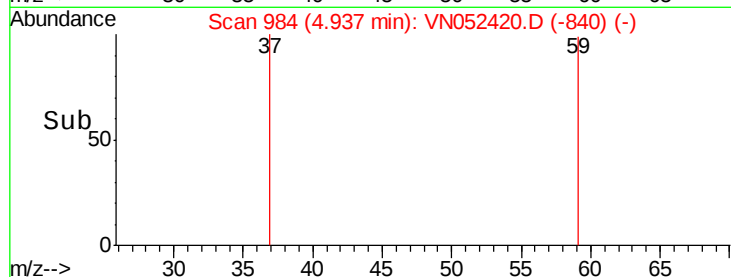
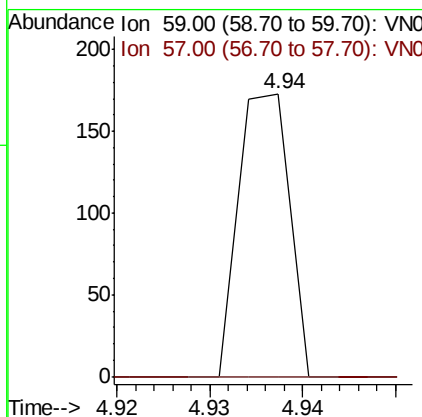
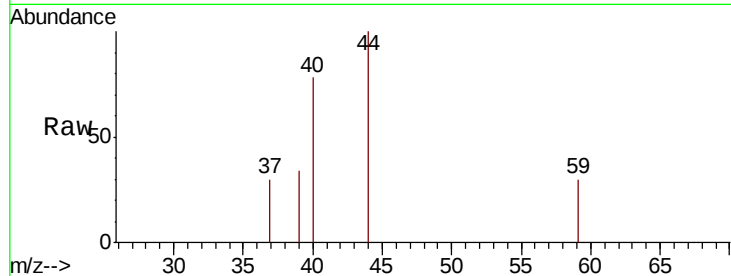




#11
Tert butvl alcohol
Concen: 0.300 ug/l
RT: 4.94 min Scan# 984
Delta R.T. 0.16 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

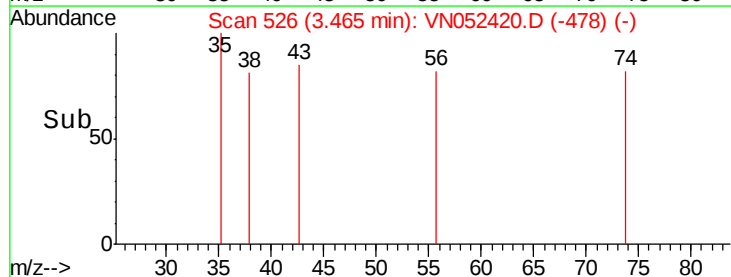
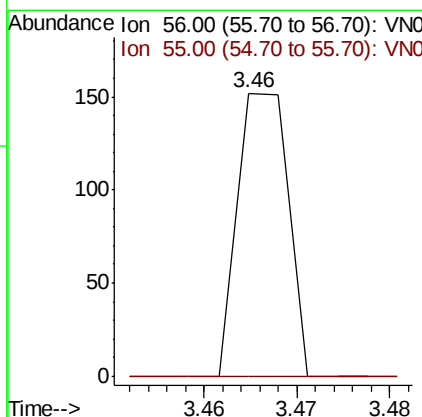
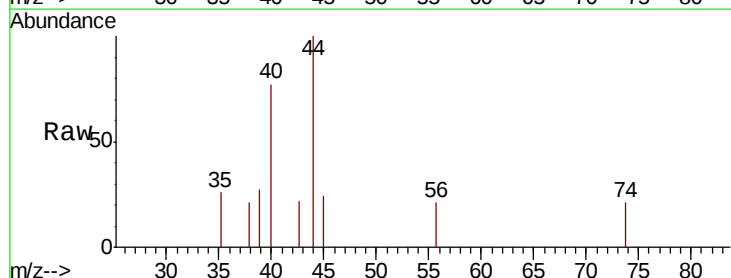
Instrument :
MSVOA_N
ClientSampleId :

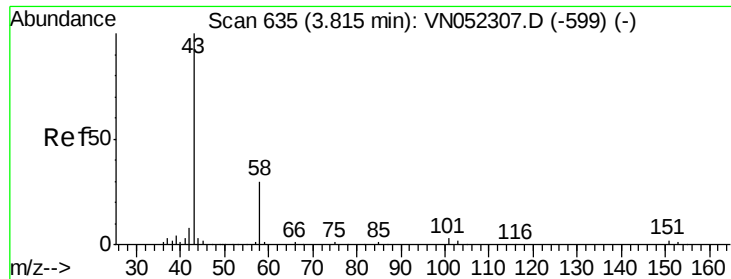
Tot Ion: 59 Resp: 66
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 21.930 ug/l
RT: 3.46 min Scan# 526
Delta R.T. -0.14 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#





#16

Acetone

Concen: 7.492 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

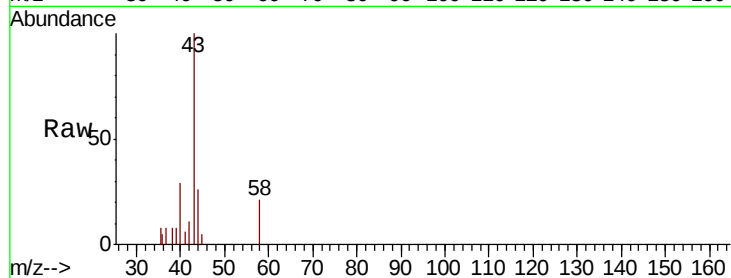
ClientSampleId :

Tot Ion: 43 Resp: 8580

Ion Ratio Lower Upper

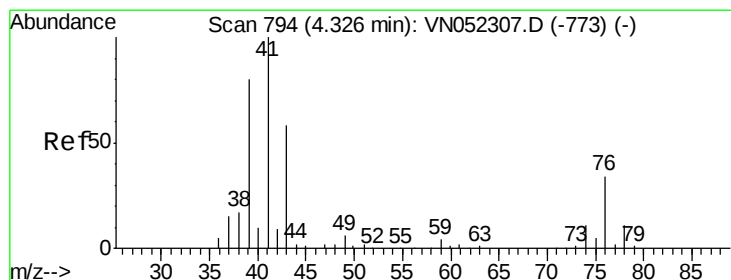
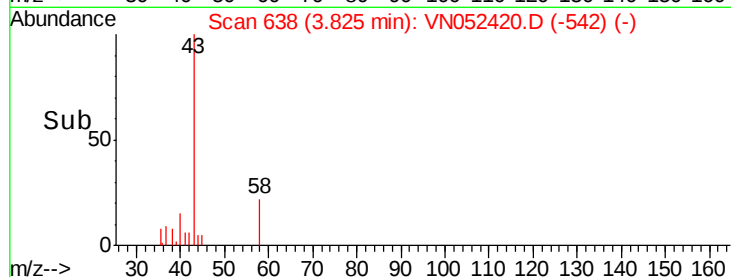
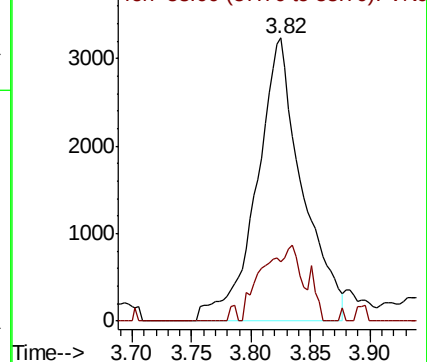
43 100

58 21.1 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.463 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052420.D

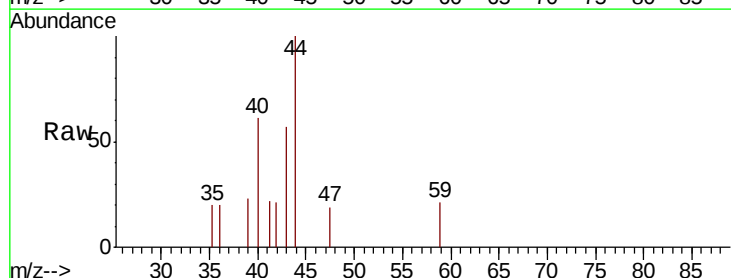
Acq: 20 Nov 2018 20:52

Tgt Ion: 43 Resp: 101

Ion Ratio Lower Upper

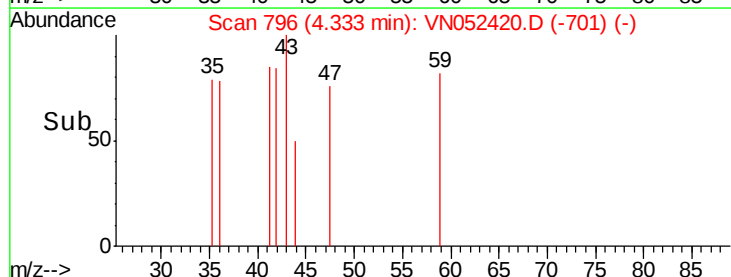
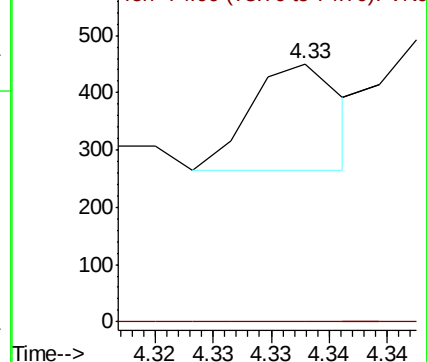
43 100

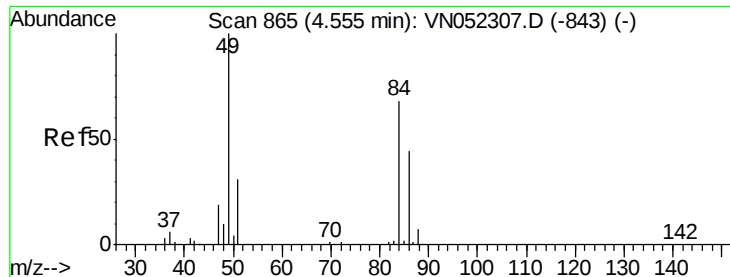
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

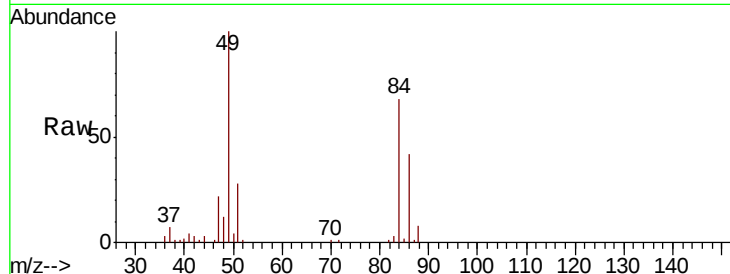




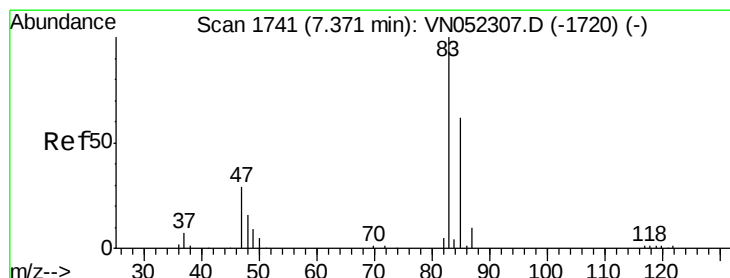
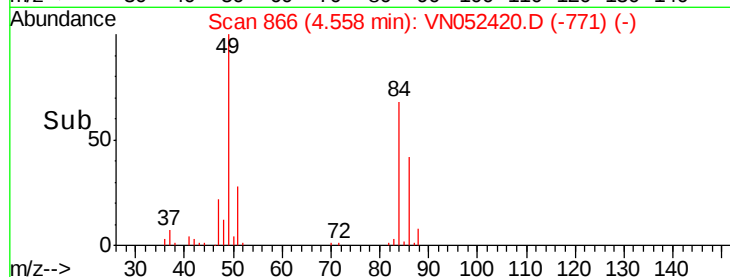
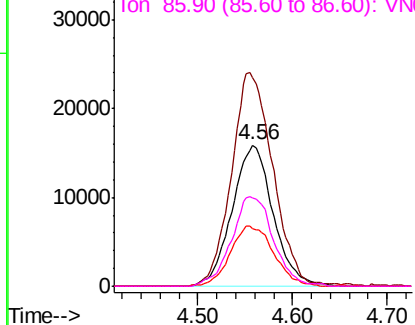
#20
Methylene Chloride
Concen: 13.192 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 47759
Ion Ratio Lower Upper
84 100
49 147.7 118.2 177.2
51 41.1 36.1 54.1
86 62.4 51.6 77.4

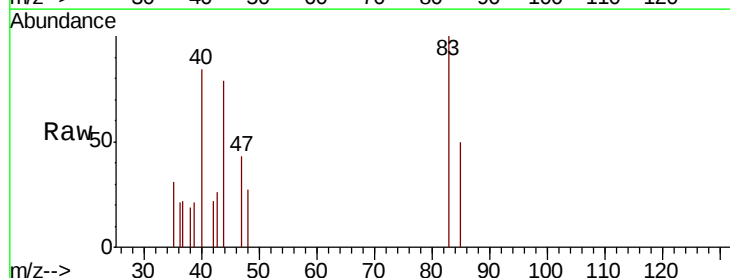


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

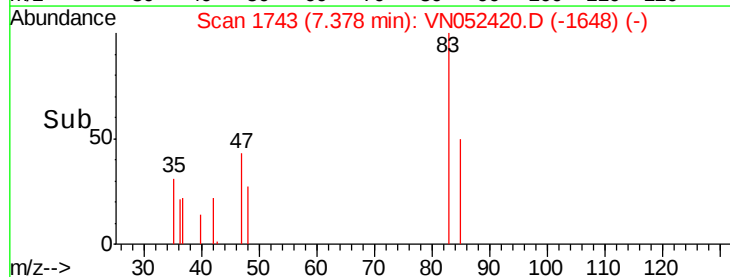
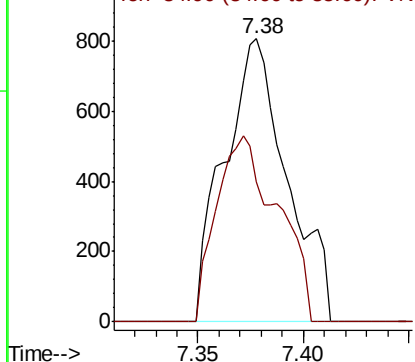


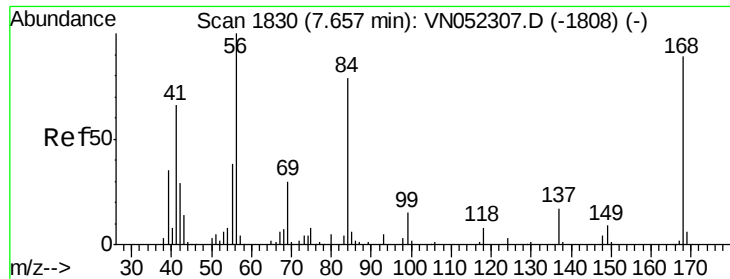
#30
Chloroform
Concen: 0.258 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Tgt Ion: 83 Resp: 1674
Ion Ratio Lower Upper
83 100
85 49.6 49.4 74.2



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO

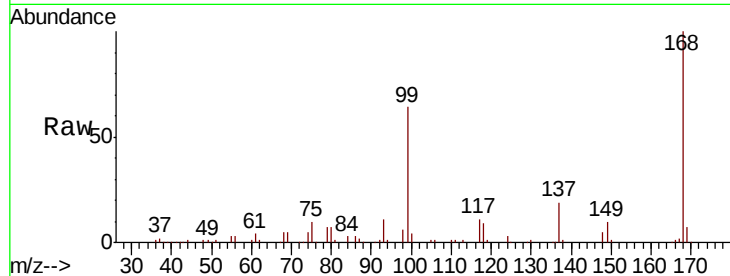




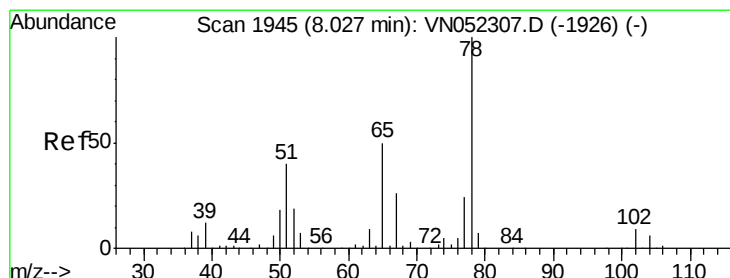
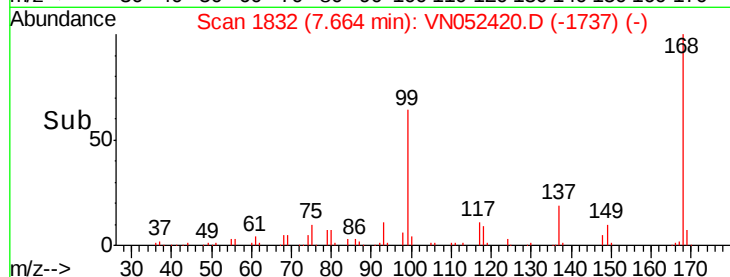
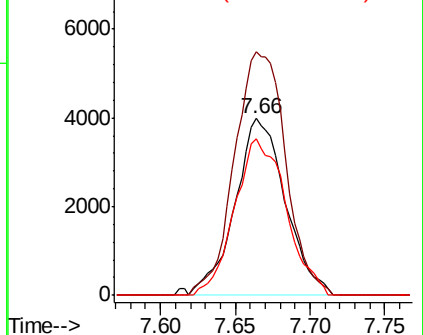
#31
Cyclohexane
Concen: 0.425 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 9335
Ion Ratio Lower Upper
56 100
69 137.7 23.8 35.8#
84 88.6 63.0 94.6

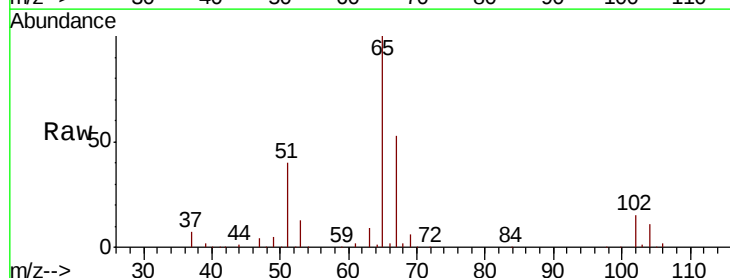


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

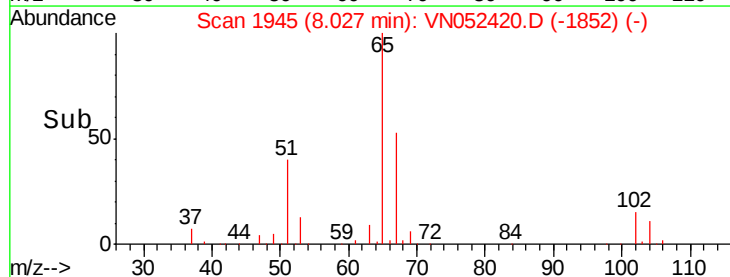
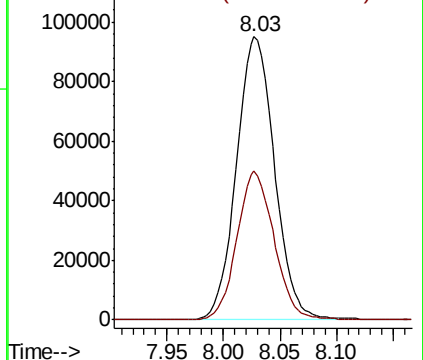


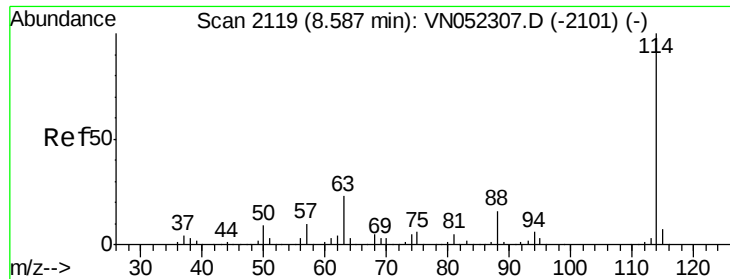
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Tgt Ion: 65 Resp: 223048
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.2



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

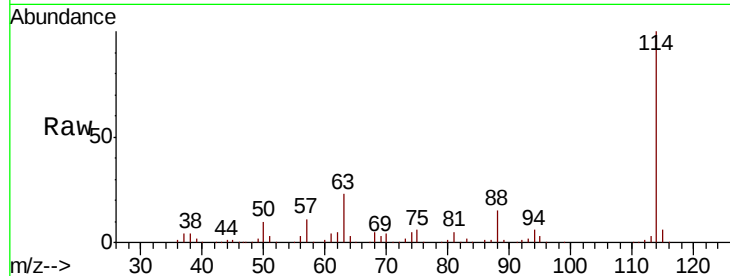




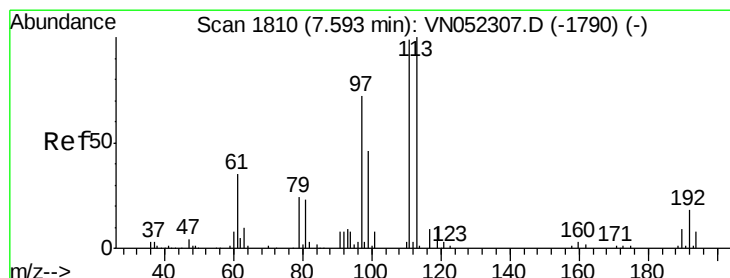
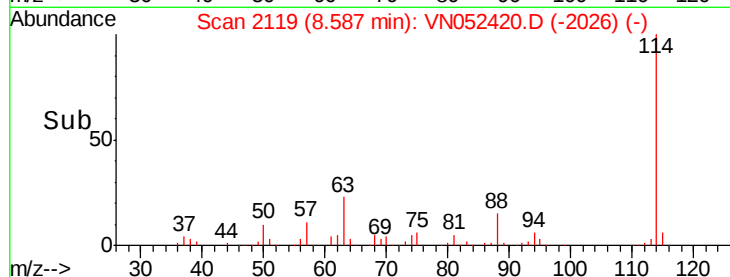
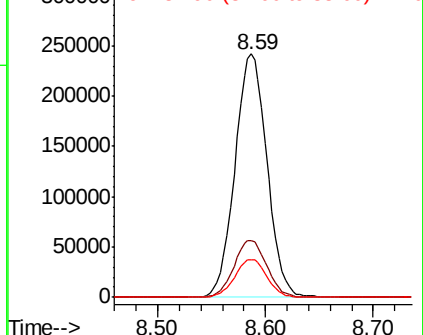
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052420.D
 Acq: 20 Nov 2018 20:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 499486
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.4
 88 15.4 0.0 31.2

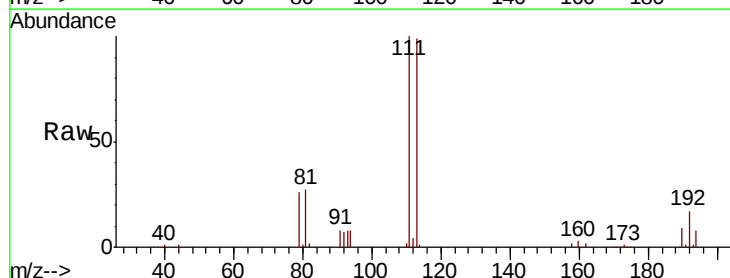


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 87.90 (87.60 to 88.60): VNO

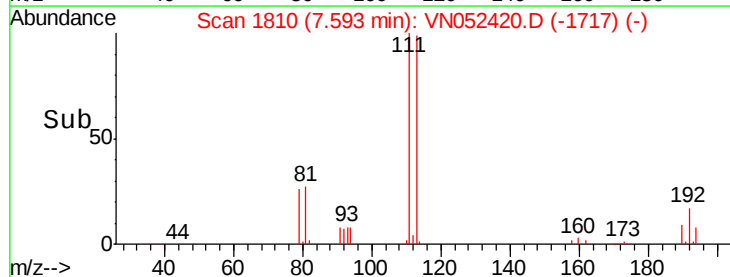
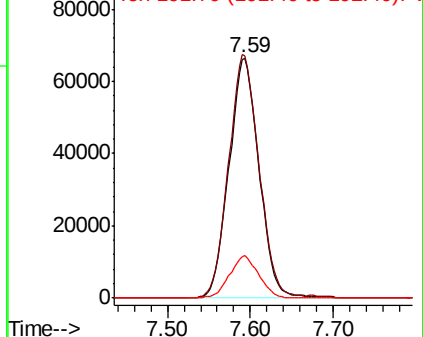


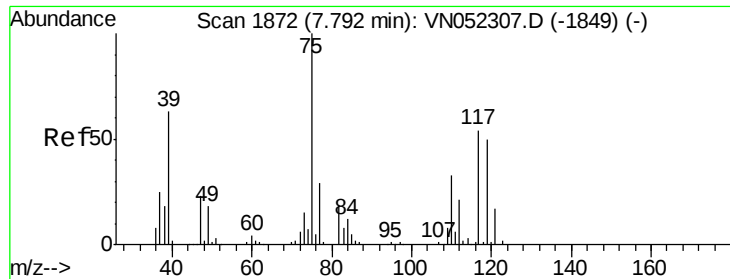
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052420.D
 Acq: 20 Nov 2018 20:52

Tgt Ion:113 Resp: 167857
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.0 121.6
 192 17.1 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: 5.798 ug/l

RT: 7.67 min Scan# 1834

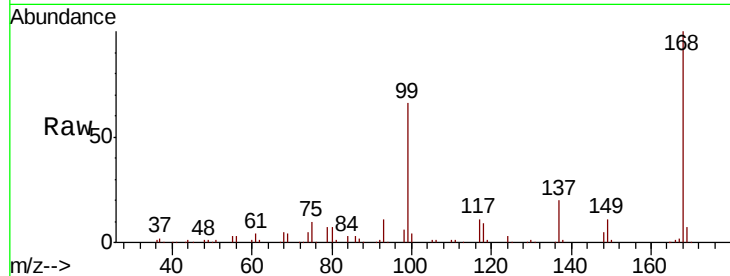
Delta R.T. -0.12 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :
MSVOA_N
ClientSampleId :

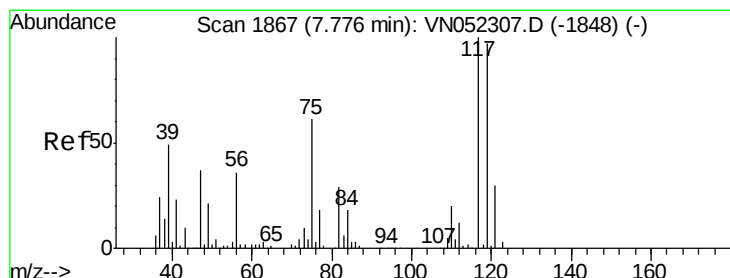
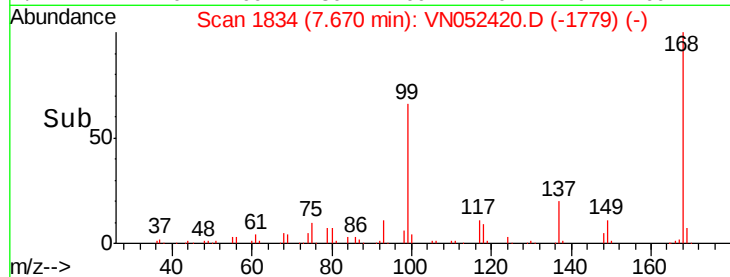
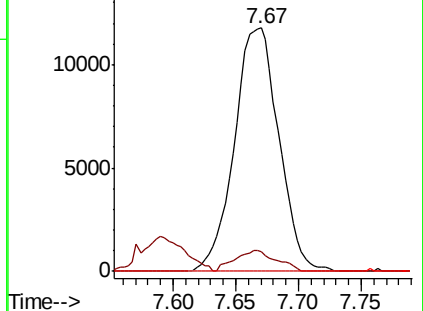
Tot Ion:	75	Resp:	29029
Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.5	49.5#
77	0.0	24.2	36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 7.032 ug/l

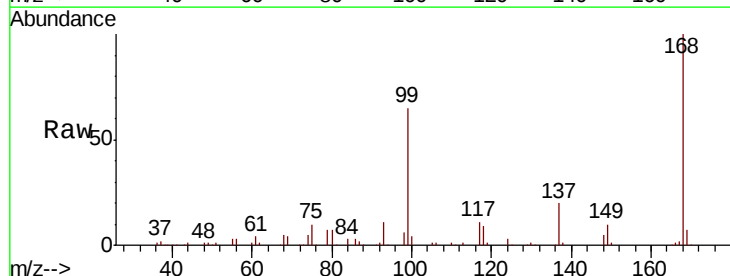
RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

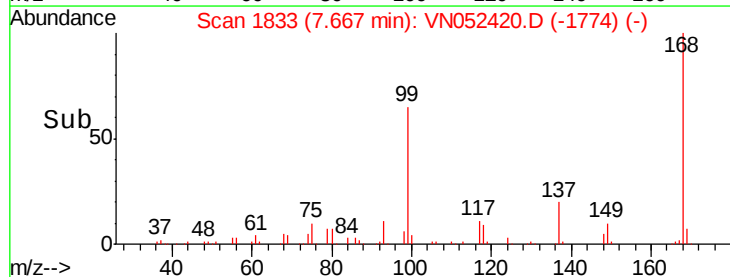
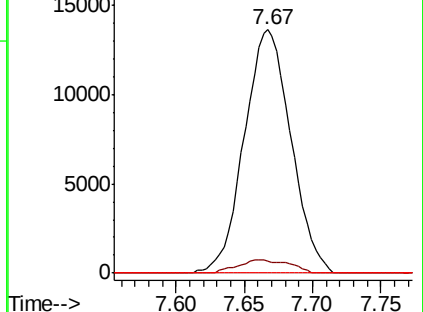
Tgt Ion:	117	Resp:	32343
Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.4	116.0#
121	0.0	24.0	36.0#

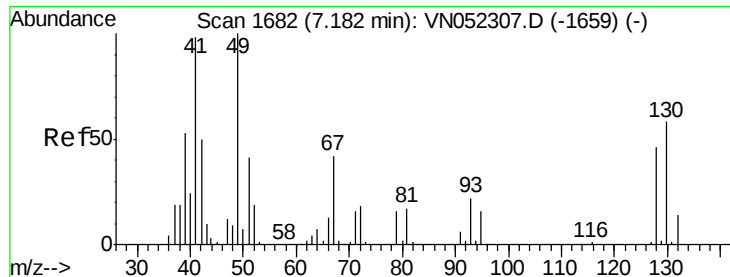


Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

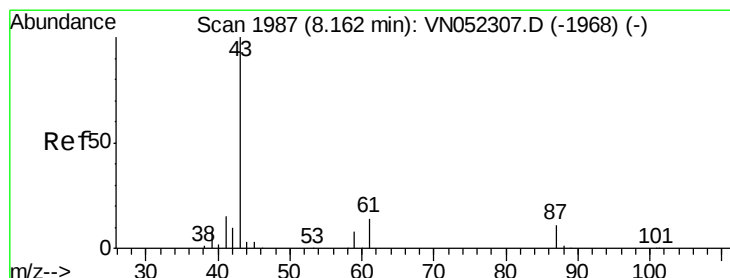
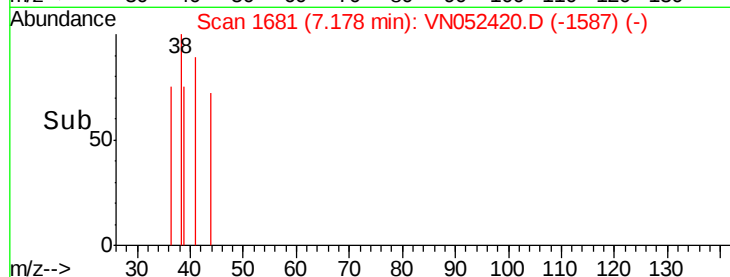
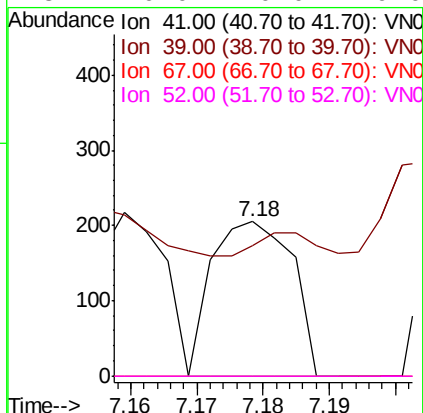
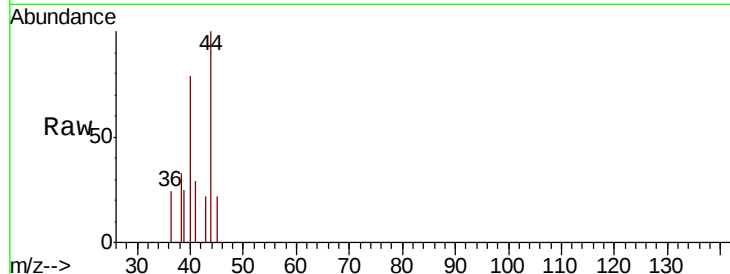




#41
Methacrylonitrile
Concen: 3.775 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

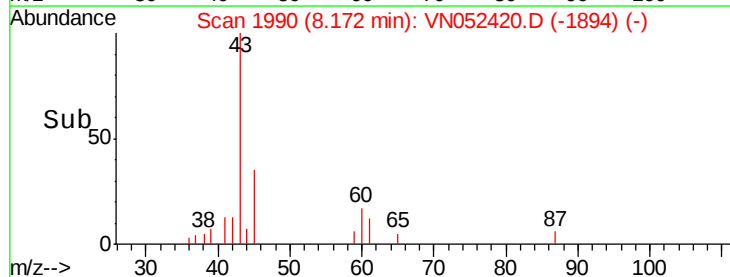
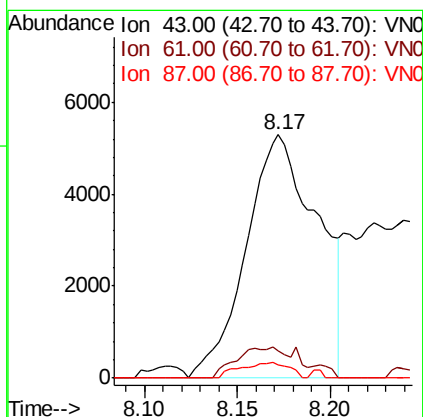
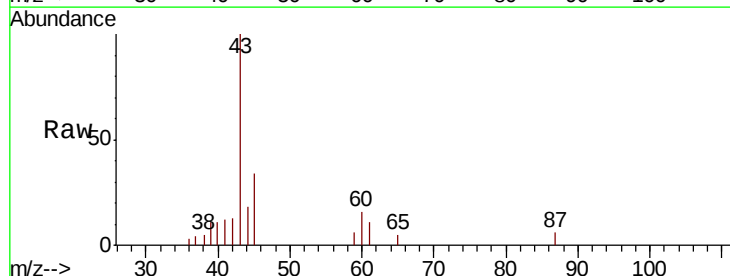
Instrument :
MSVOA_N
ClientSampled :

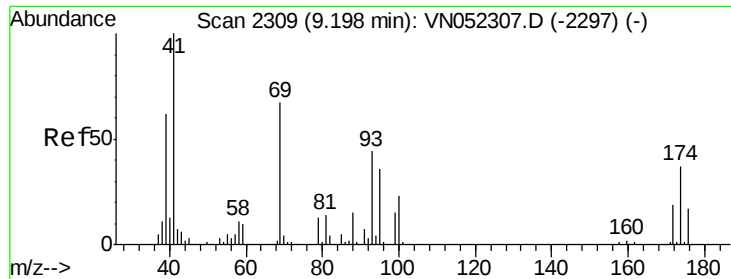
Tot Ion:	41	Resp:	173
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.020 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Tgt Ion:	43	Resp:	14164
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.0	18.0#
87	4.4	8.3	12.5#

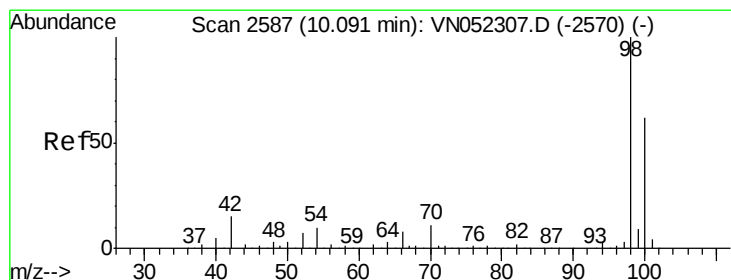
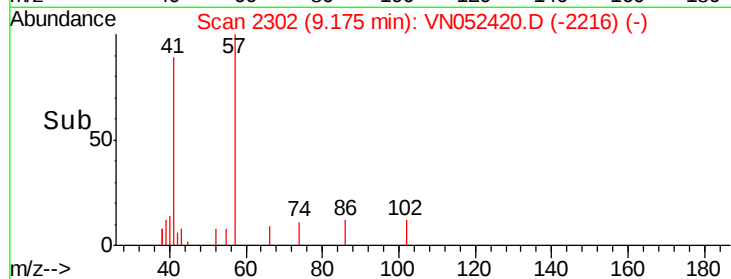
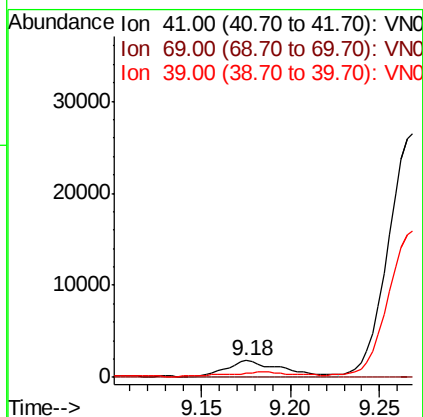
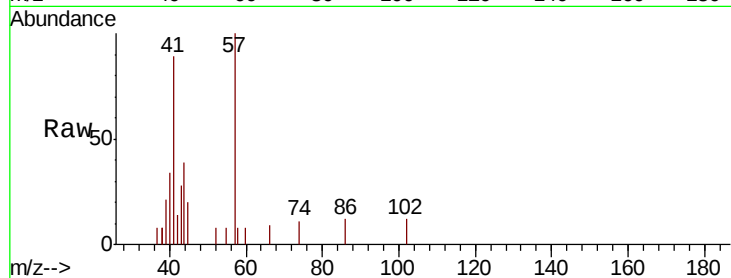




#48
Methvl methacrylate
Concen: 1.144 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

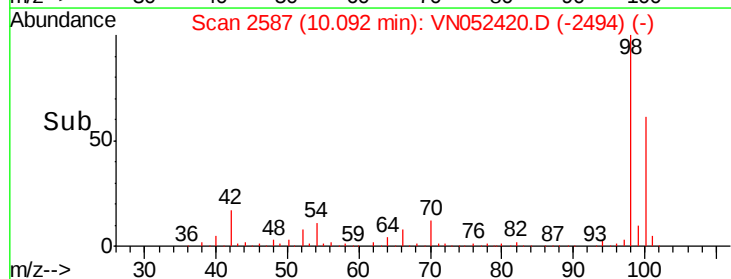
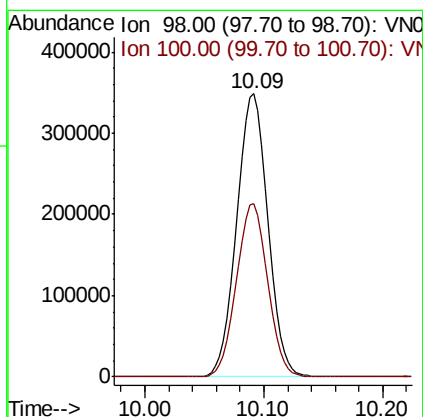
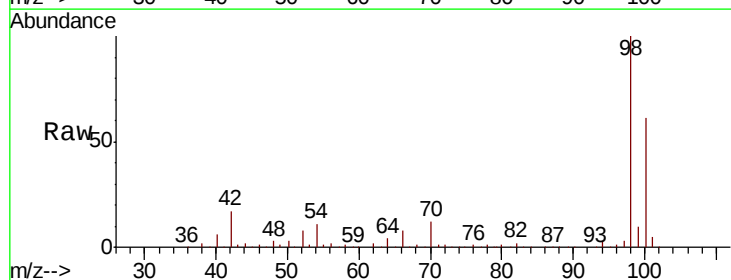
Instrument :
MSVOA_N
ClientSampleId :

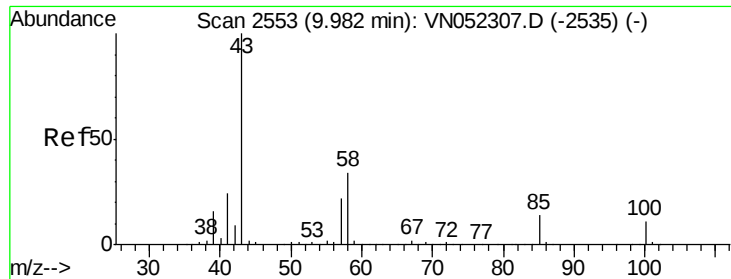
Tot Ion: 41 Resp: 4070
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052420.D
Acq: 20 Nov 2018 20:52

Tgt Ion: 98 Resp: 633924
Ion Ratio Lower Upper
98 100
100 61.2 49.5 74.3





#51

4-Methyl-2-Pentanone

Concen: 0.378 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

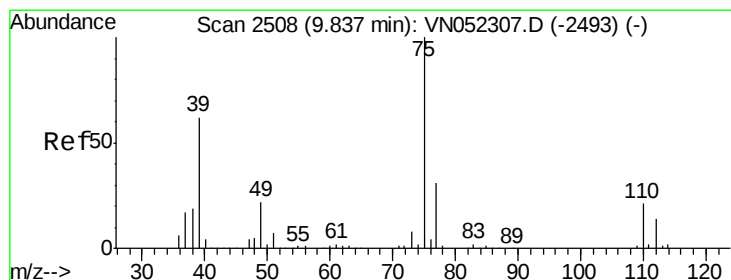
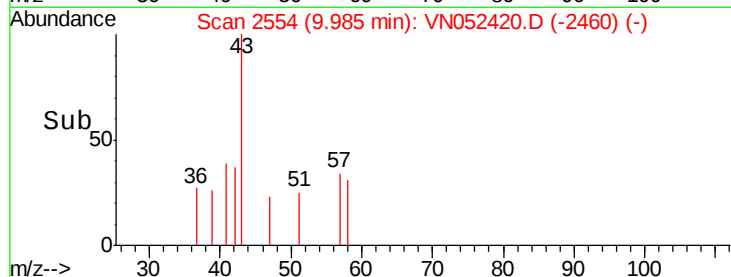
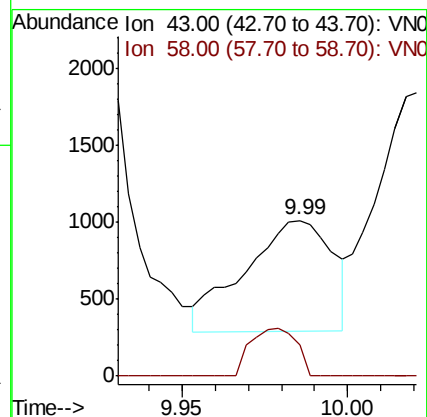
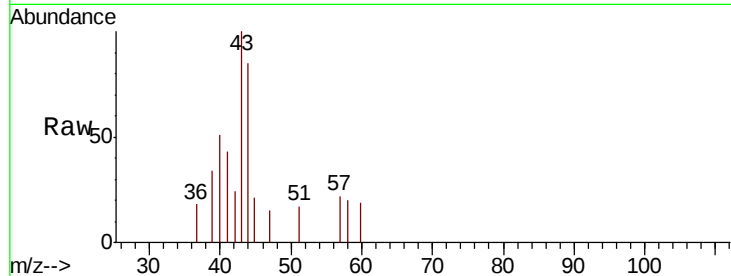
ClientSampled :

Tot Ion: 43 Resp: 1334

Ion Ratio Lower Upper

43 100

58 22.5 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 2.276 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

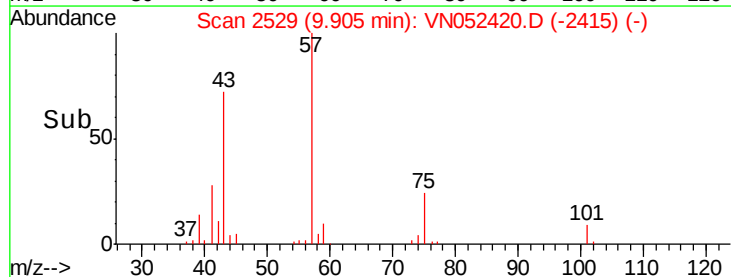
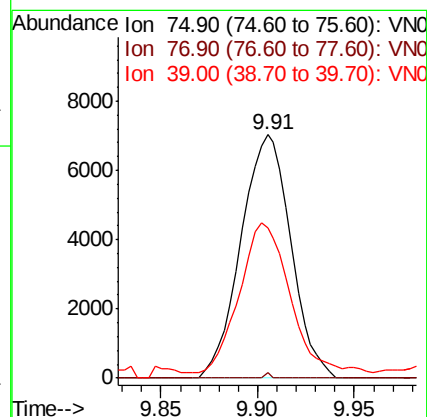
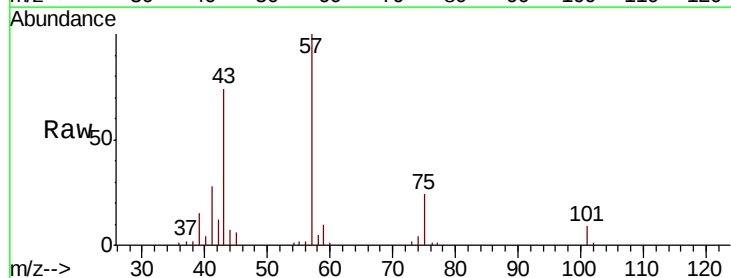
Tgt Ion: 75 Resp: 12618

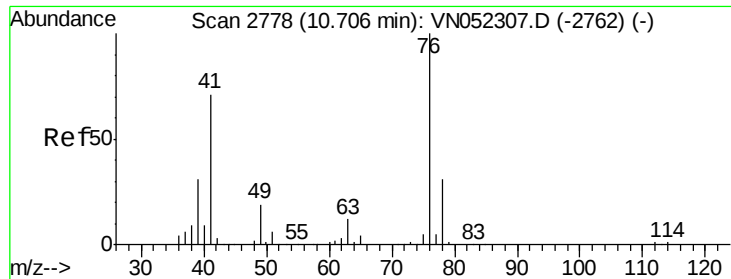
Ion Ratio Lower Upper

75 100

77 2.3 24.6 36.8#

39 59.1 49.9 74.9

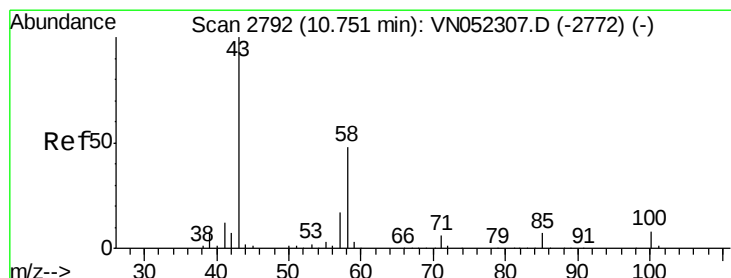
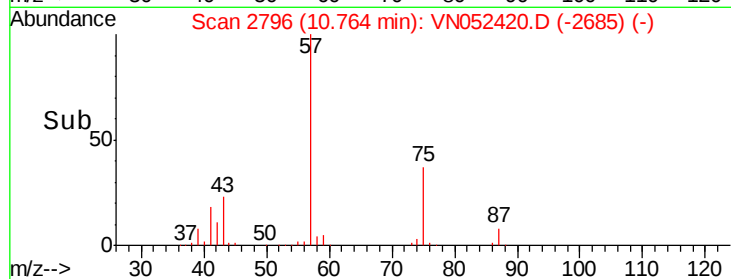
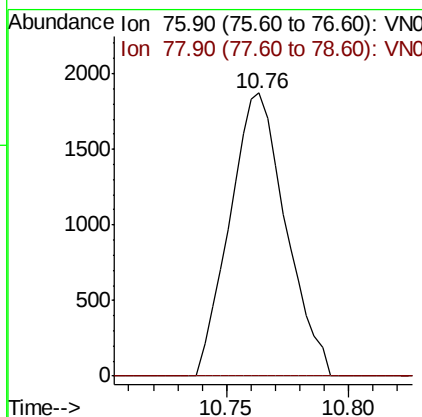
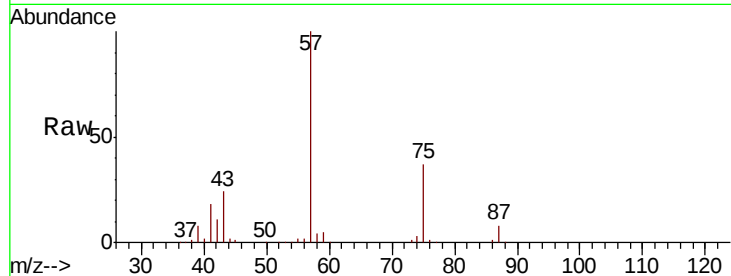




#57
 1,3-Dichloropropane
 Concen: 0.542 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052420.D
 Acq: 20 Nov 2018 20:52

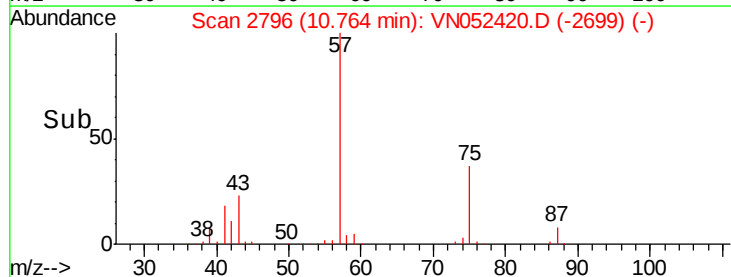
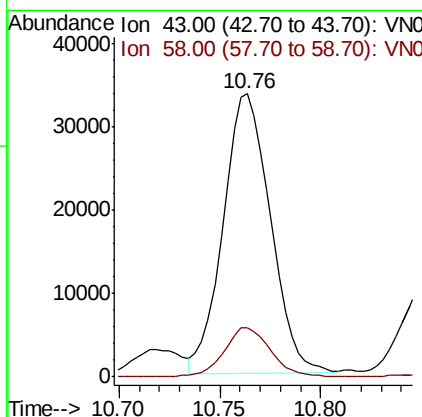
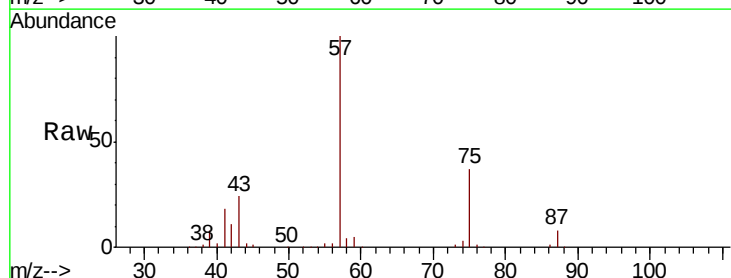
Instrument :
 MSVOA_N
 ClientSampleId :

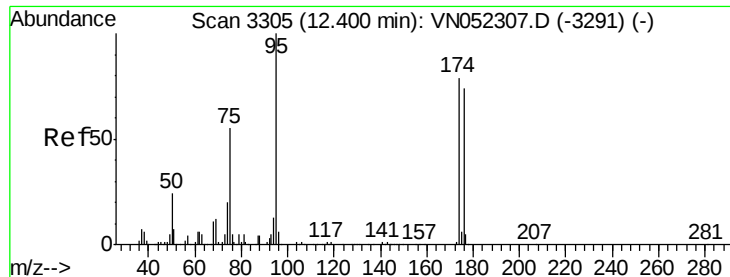
Tot Ion: 76 Resp: 2980
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 22.668 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052420.D
 Acq: 20 Nov 2018 20:52

Tgt Ion: 43 Resp: 55025
 Ion Ratio Lower Upper
 43 100
 58 17.2 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: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

ClientSampleId :

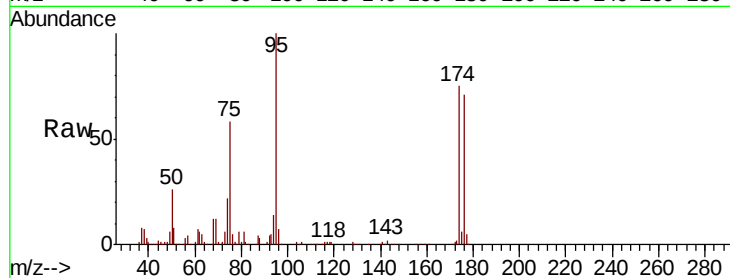
Tot Ion: 95 Resp: 188772

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.0

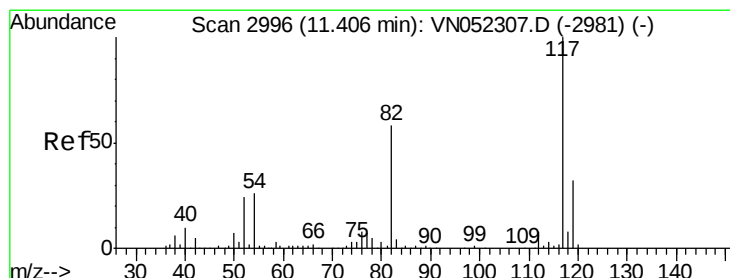
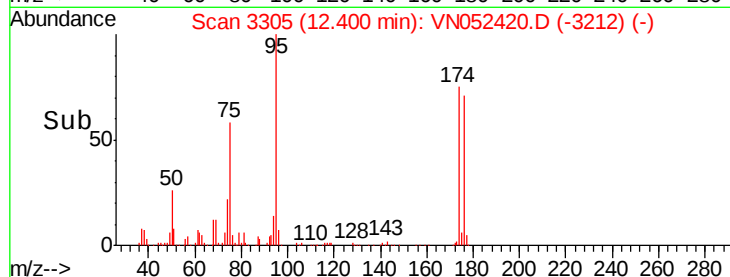
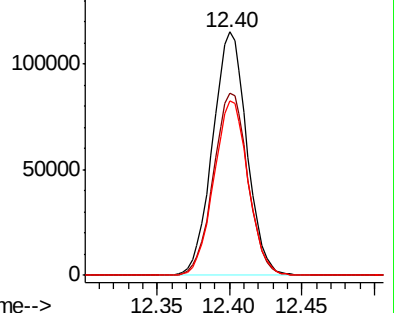
176 72.1 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052307.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052307.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052307.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

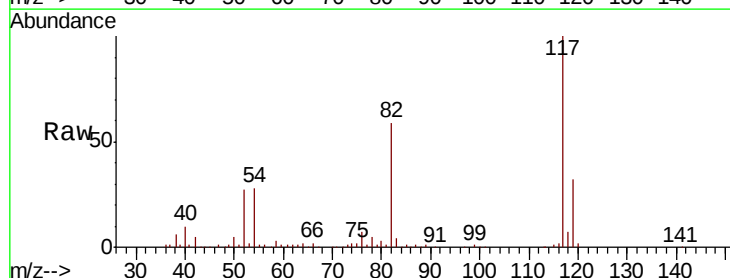
Tgt Ion: 117 Resp: 427659

Ion Ratio Lower Upper

117 100

82 58.5 46.5 69.7

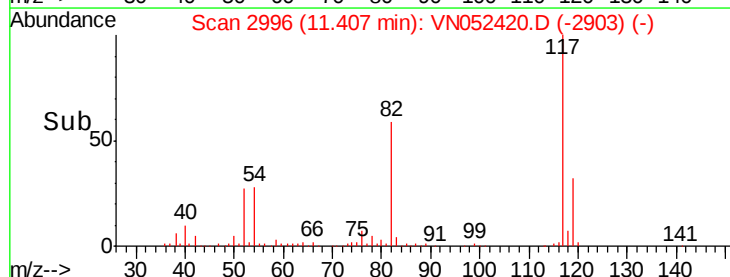
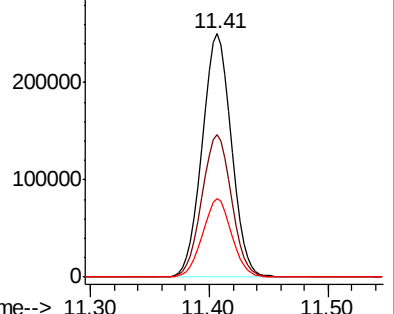
119 32.3 25.7 38.5

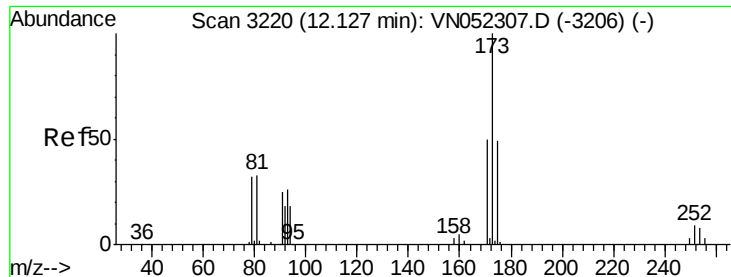


Abundance Ion 116.90 (116.60 to 117.60): VN052307.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052307.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052307.D (-2981) (-)





#71

Bromoform

Concen: 1.424 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

ClientSampled :

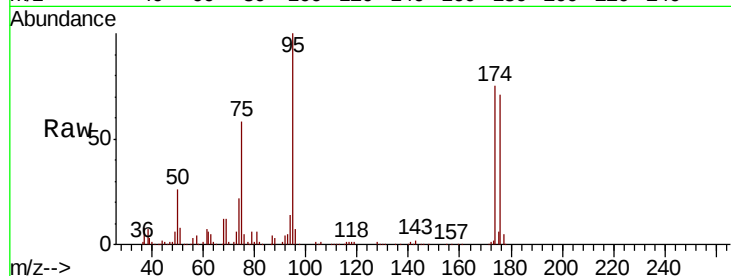
Tot Ion:173 Resp: 2591

Ion Ratio Lower Upper

173 100

175 378.3 25.0 75.0#

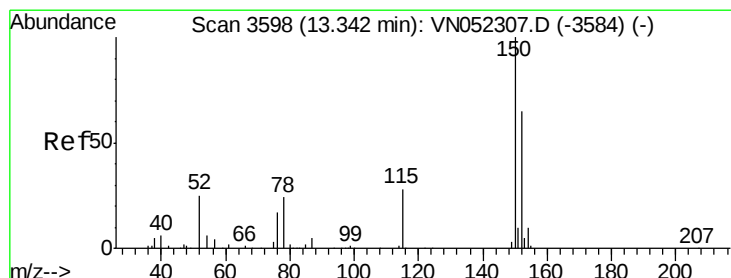
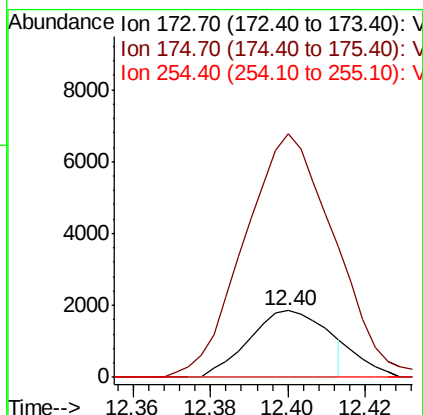
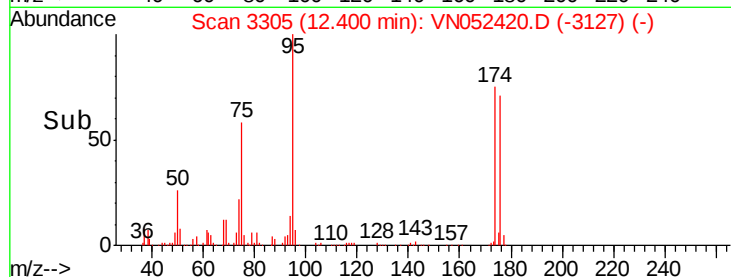
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

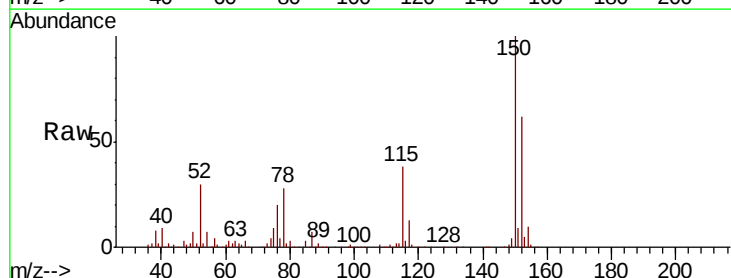
Tgt Ion:152 Resp: 150230

Ion Ratio Lower Upper

152 100

115 63.0 30.3 91.0

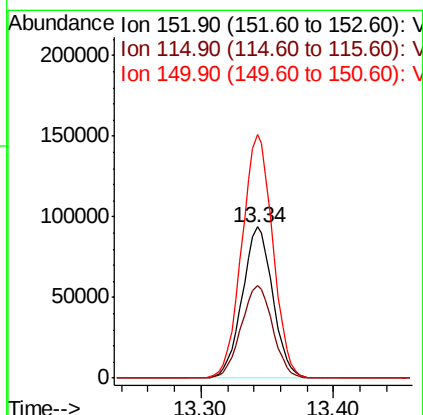
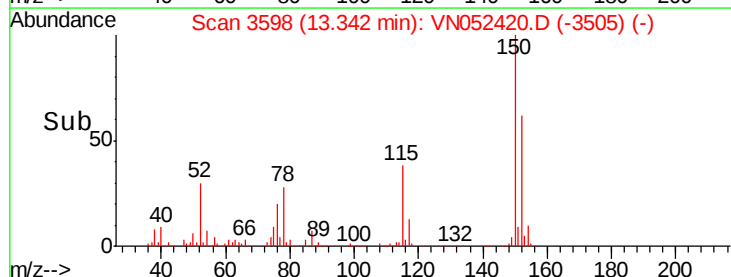
150 162.1 0.0 348.2

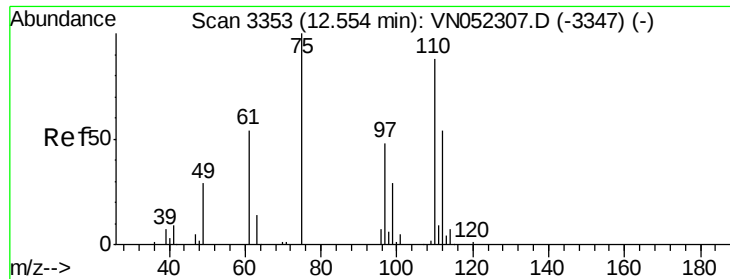


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 43.142 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

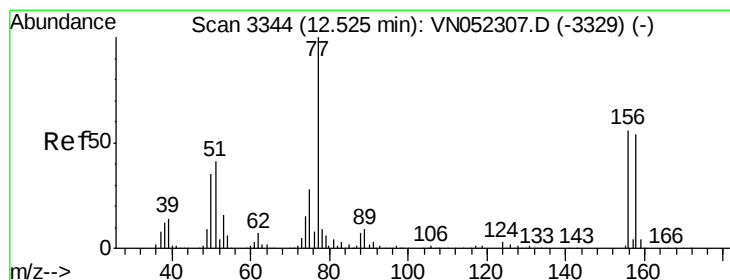
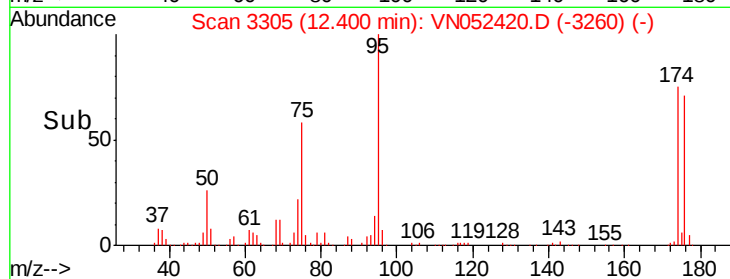
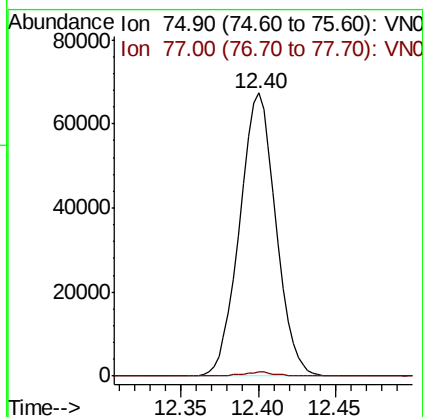
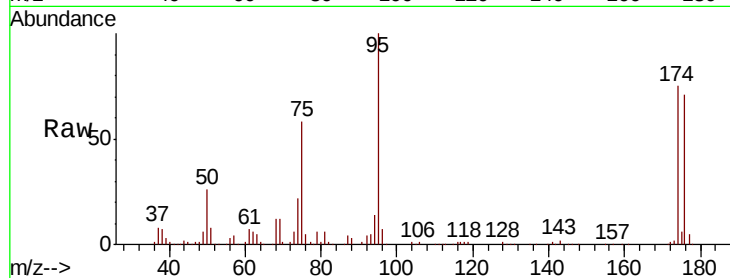
ClientSampled :

Tot Ion: 75 Resp: 109974

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#77

Bromobenzene

Concen: 2.114 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.02 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

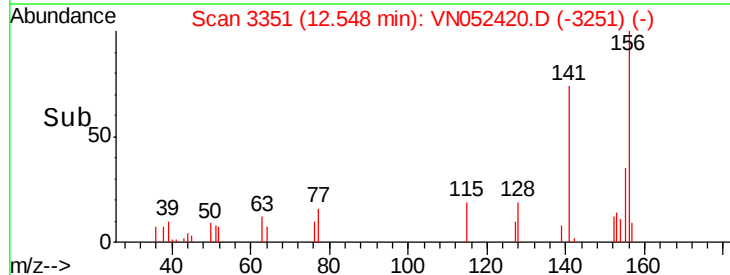
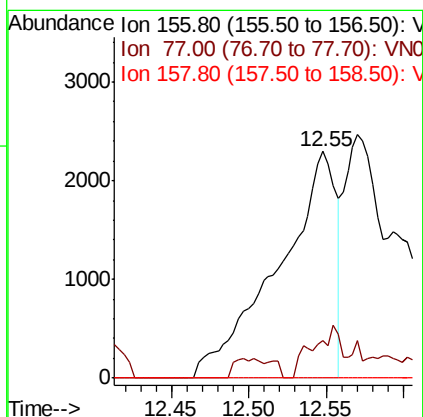
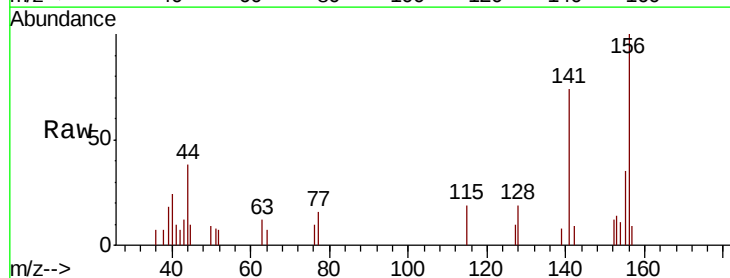
Tgt Ion: 156 Resp: 5940

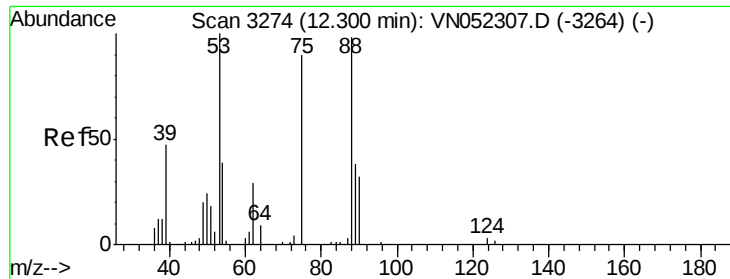
Ion Ratio Lower Upper

156 100

77 11.6 103.6 310.9#

158 0.0 48.1 144.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 139.926 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

Instrument :

MSVOA_N

ClientSampleId :

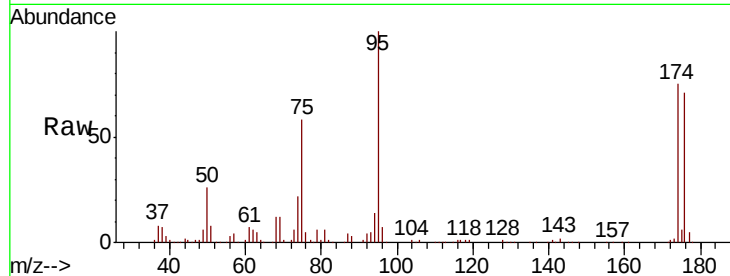
Tot Ion: 75 Resp: 109974

Ion Ratio Lower Upper

75 100

53 0.3 90.2 135.2#

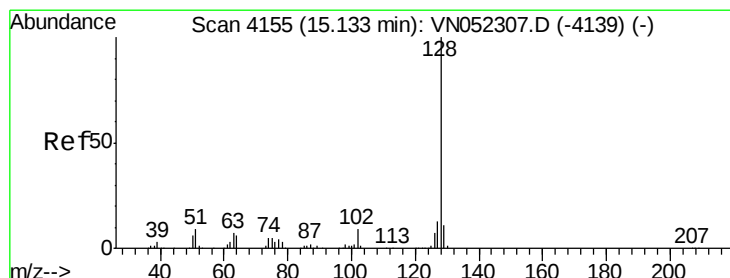
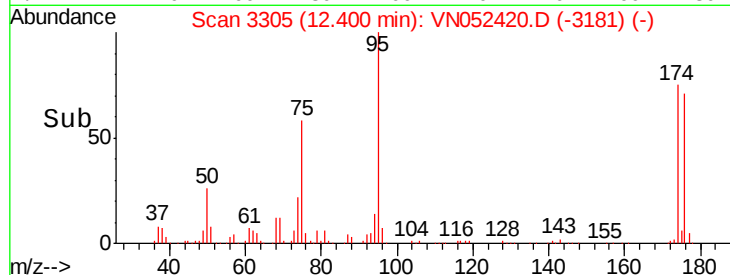
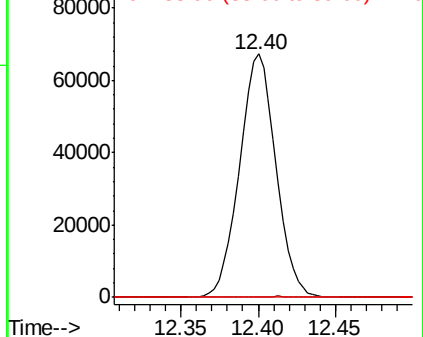
89 0.1 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#95

Naphthalene

Concen: 2.810 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN052420.D

Acq: 20 Nov 2018 20:52

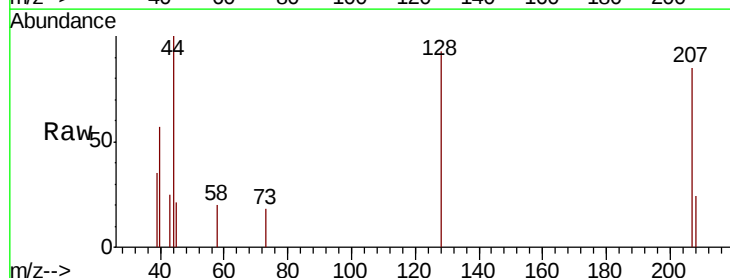
Tgt Ion:128 Resp: 1153

Ion Ratio Lower Upper

128 100

127 2.5 10.4 15.6#

129 8.4 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) (-)

