

Data File : VN051924.D
Acq On : 18 Oct 2018 18:41
Operator : MD\SY
Sample : PB113908ZHE#05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#05

Quant Time: Oct 19 06:50:29 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	988452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1443409	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1252925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	457240	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	534663	58.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.70%	
35) Dibromofluoromethane	7.59	113	527643	57.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.02%	
50) Toluene-d8	10.09	98	1976797	59.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.40%	
62) 4-Bromofluorobenzene	12.40	95	563141	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	

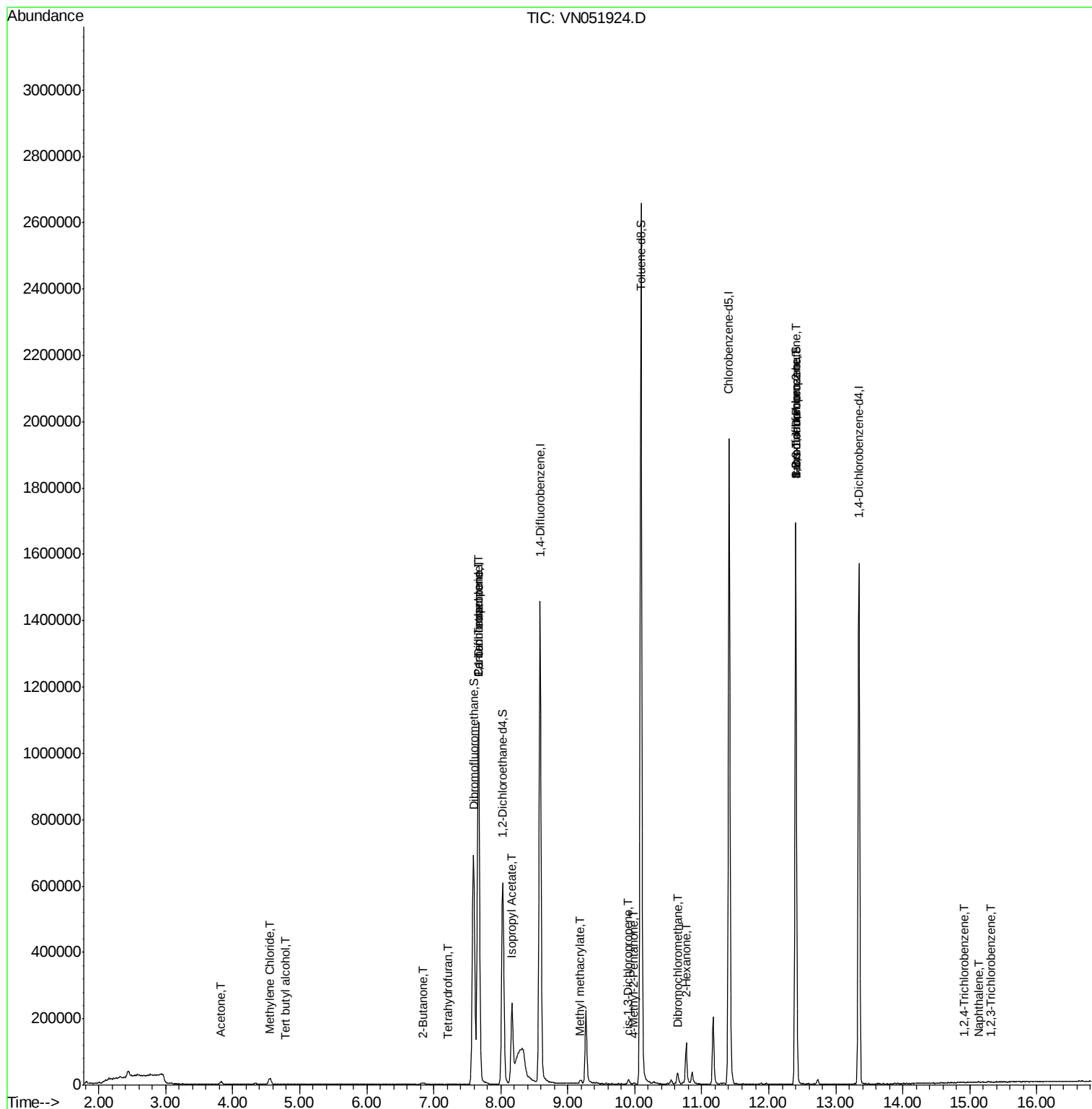
Target Compounds			Qvalue			
5) Bromomethane	2.57	94	2983	Below Cal	#	79
11) Tert butyl alcohol	4.78	59	237	0.443 ug/l	#	72
13) Acrolein	3.62	56	63	Below Cal	#	61
16) Acetone	3.83	43	10230	6.305 ug/l		99
18) Methyl Acetate	4.33	43	8664	Below Cal	#	73
20) Methylene Chloride	4.55	84	6777	0.822 ug/l	#	94
25) 2-Butanone	6.83	43	1109	0.478 ug/l	#	41
29) Tetrahydrofuran	7.21	42	634	0.448 ug/l	#	22
31) Cyclohexane	7.67	56	15476	Below Cal	#	49
36) 1,1-Dichloropropene	7.66	75	62170	5.549 ug/l	#	46
37) Ethyl Acetate	6.94	43	184	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	88454	6.705 ug/l	#	15
43) Isopropyl Acetate	8.17	43	288815	27.786 ug/l	#	86
48) Methyl methacrylate	9.18	41	6031	1.334 ug/l	#	9
51) 4-Methyl-2-Pentanone	9.99	43	2241	0.430 ug/l	#	75
54) cis-1,3-Dichloropropene	9.91	75	2802	0.229 ug/l	#	72
59) 2-Hexanone	10.77	43	16672	4.768 ug/l	#	57
60) Dibromochloromethane	10.63	129	78	2.058 ug/l	#	11
71) Bromoform	12.40	173	4600	3.848 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	282638	50.857 ug/l	#	100
79) 2-Chlorotoluene	12.77	91	528	Below Cal		82
81) trans-1,4-Dichloro-2-buten	12.40	75	282638	167.124 ug/l	#	14
93) 1,2,4-Trichlorobenzene	14.91	180	112	4.075 ug/l	#	1
95) Naphthalene	15.14	128	619	4.099 ug/l	#	70
96) 1,2,3-Trichlorobenzene	15.31	180	69	2.922 ug/l	#	12

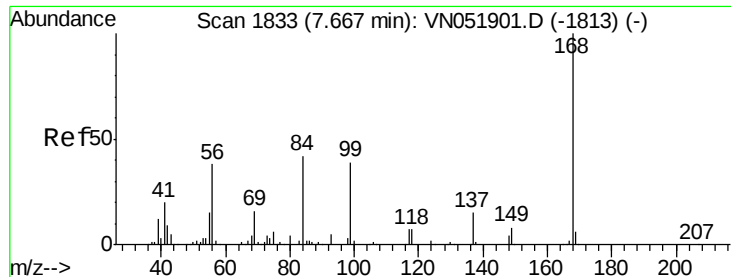
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051924.D

Acq: 18 Oct 2018 18:41

Instrument :

MSVOA_N

ClientSampleId :

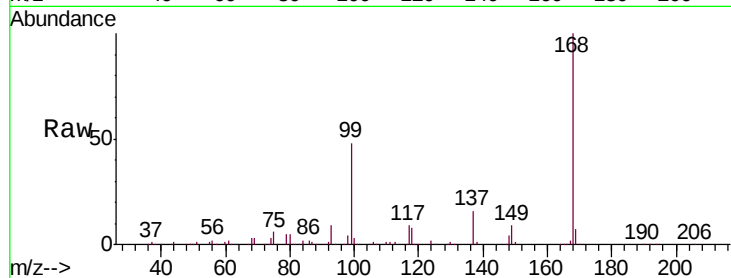
PB113908ZHE#05

Tgt Ion:168 Resp: 988452

Ion Ratio Lower Upper

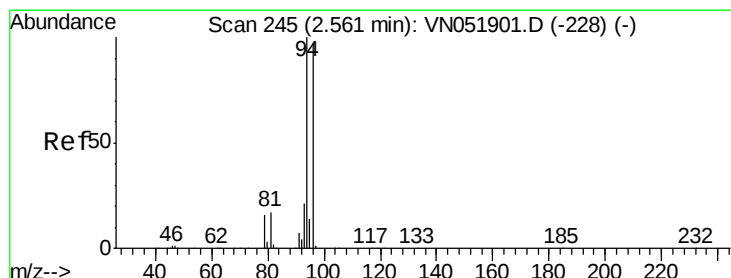
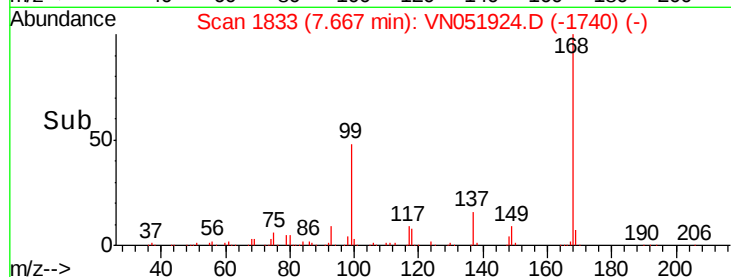
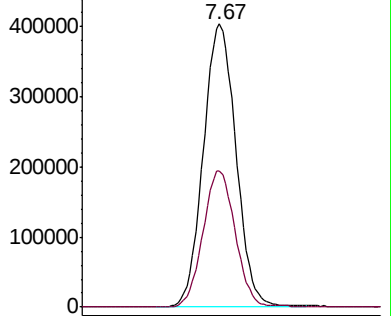
168 100

99 48.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051924.D

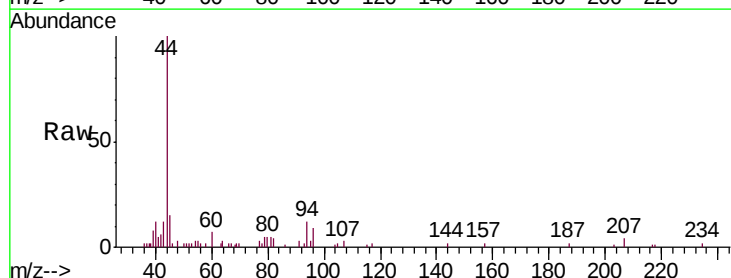
Acq: 18 Oct 2018 18:41

Tgt Ion: 94 Resp: 2983

Ion Ratio Lower Upper

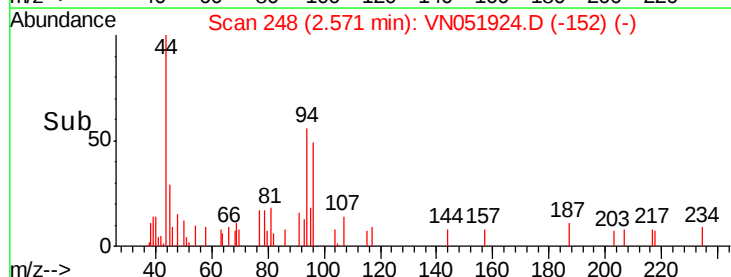
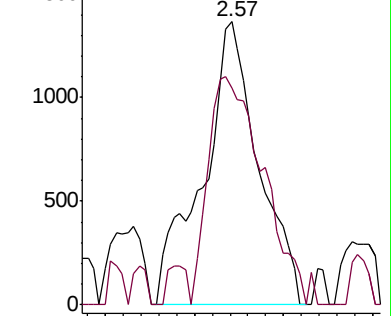
94 100

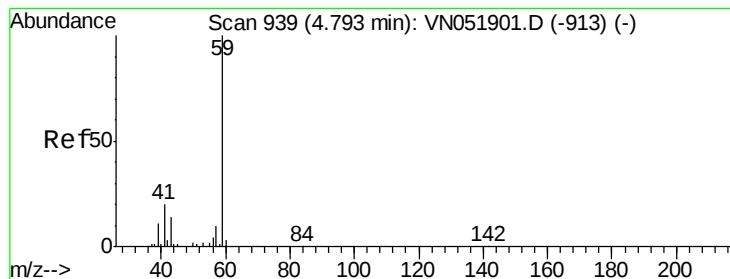
96 76.5 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



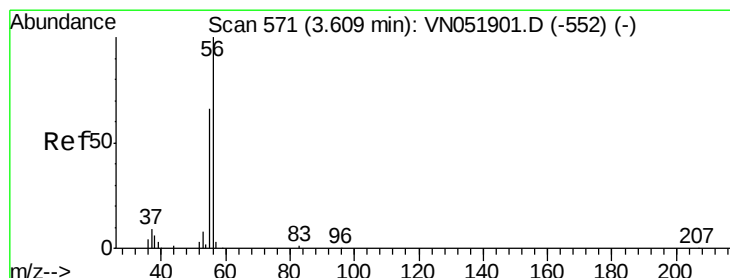
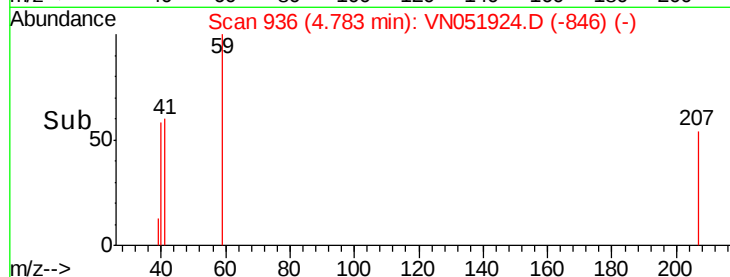
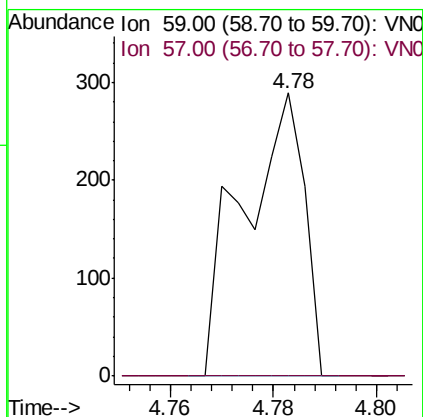
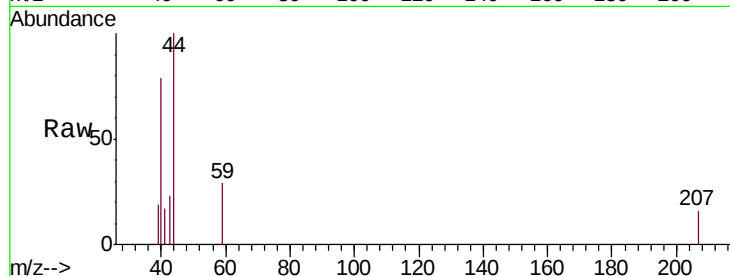


#11

Tert butyl alcohol
 Concen: 0.443 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051924.D
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 PB113908ZHE#05

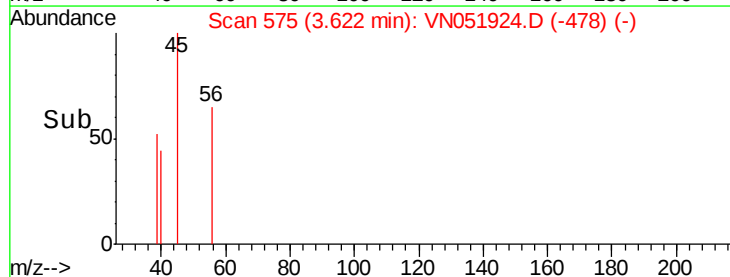
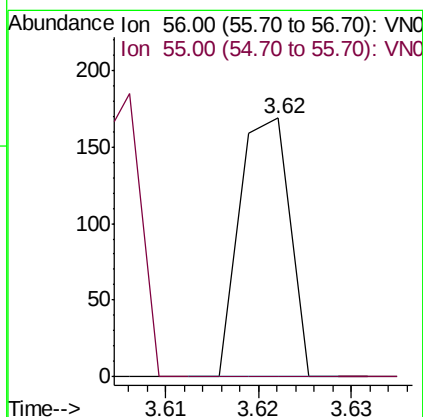
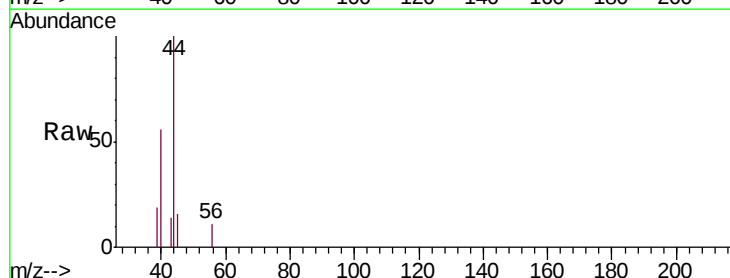
Tgt Ion: 59 Resp: 237
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

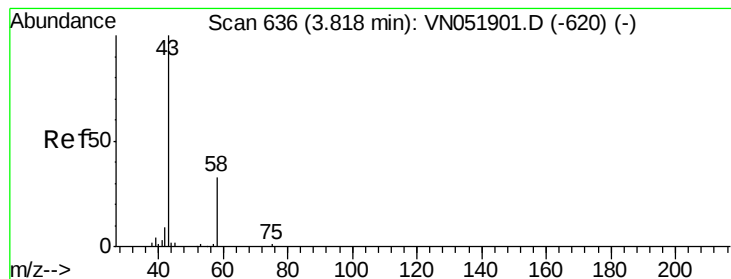


#13

Acrolein
 Concen: Below Cal
 RT: 3.62 min Scan# 575
 Delta R.T. 0.01 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Tgt Ion: 56 Resp: 63
 Ion Ratio Lower Upper
 56 100
 55 103.2 56.7 85.1#





#16

Acetone

Concen: 6.305 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

Instrument :

MSVOA_N

ClientSampleId :

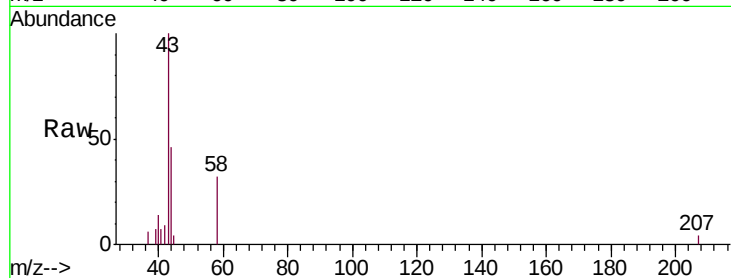
PB113908ZHE#05

Tgt Ion: 43 Resp: 10230

Ion Ratio Lower Upper

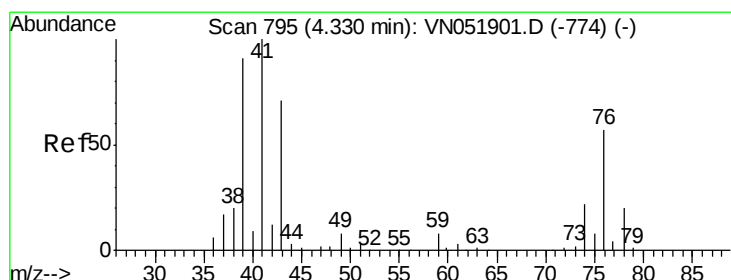
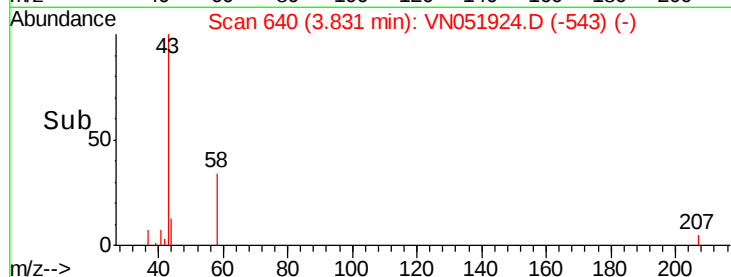
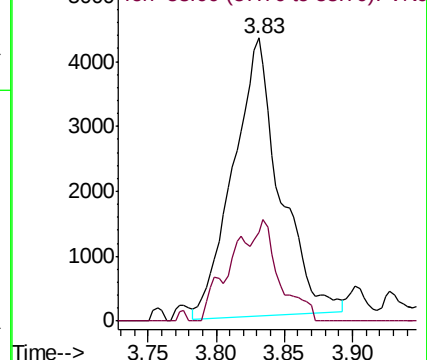
43 100

58 32.9 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-620) (-)

Ion 58.00 (57.70 to 58.70): VN051901.D (-620) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051924.D

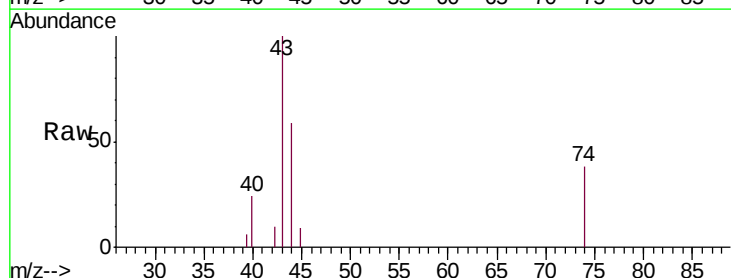
Acq: 18 Oct 2018 18:41

Tgt Ion: 43 Resp: 8664

Ion Ratio Lower Upper

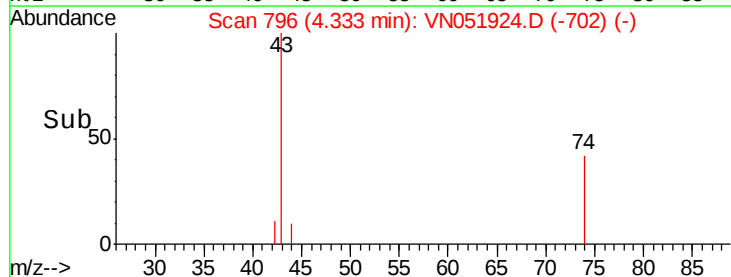
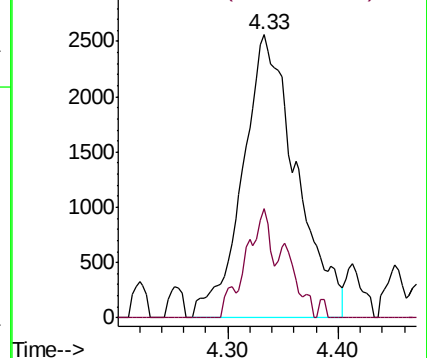
43 100

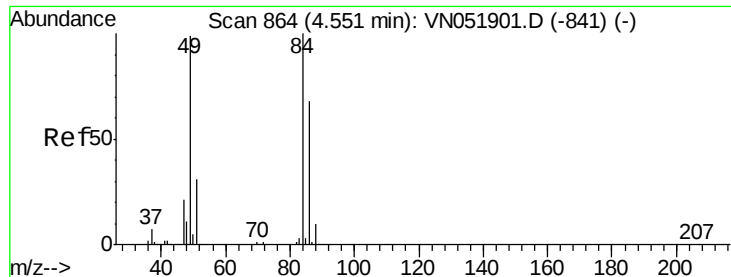
74 16.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-774) (-)

Ion 74.00 (73.70 to 74.70): VN051901.D (-774) (-)

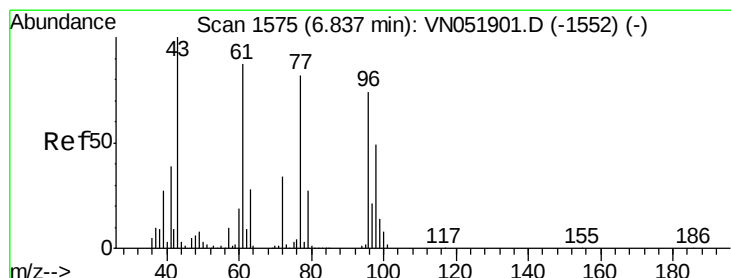
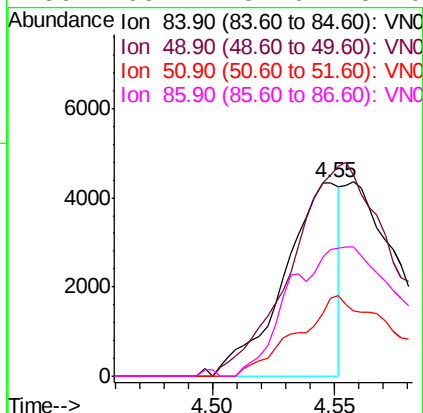
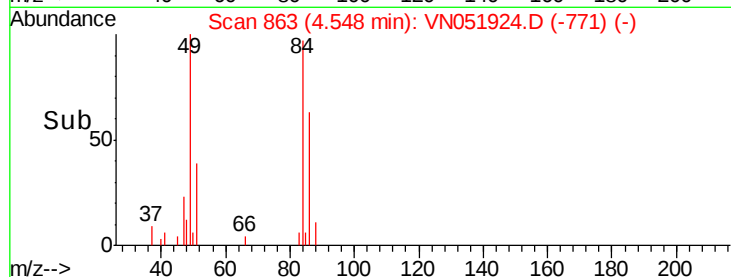
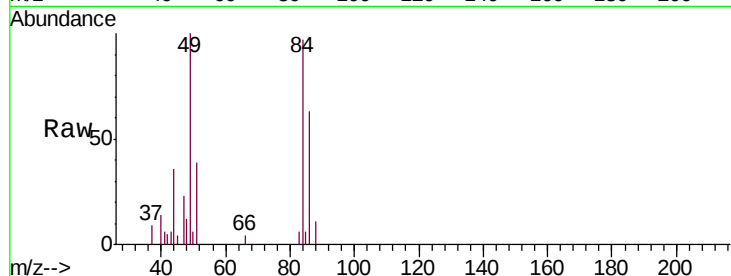




#20
Methylene Chloride
Concen: 0.822 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

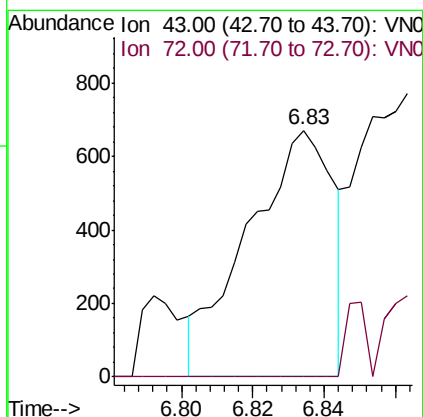
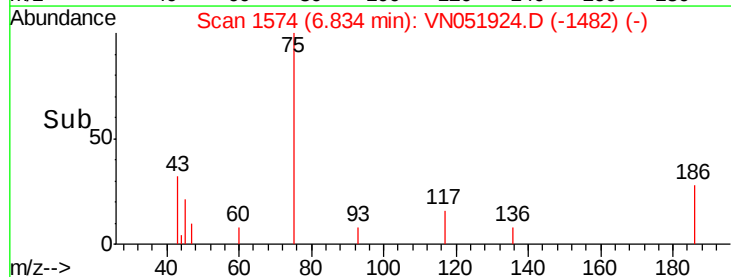
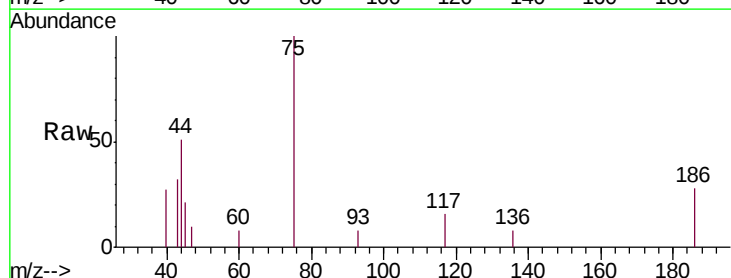
Instrument :
MSVOA_N
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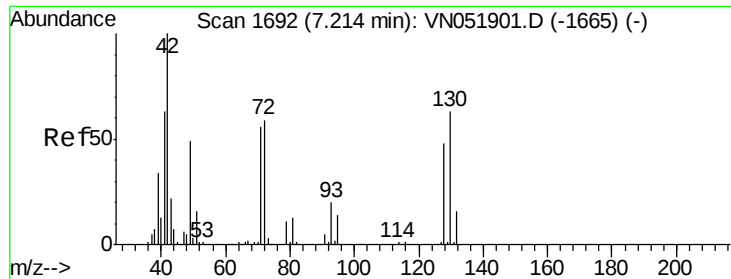
Tgt Ion: 84 Resp: 6777
Ion Ratio Lower Upper
84 100
49 103.5 79.0 118.4
51 40.1 24.9 37.3#
86 65.7 54.6 82.0



#25
2-Butanone
Concen: 0.478 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion: 43 Resp: 1109
Ion Ratio Lower Upper
43 100
72 0.0 27.0 40.6#

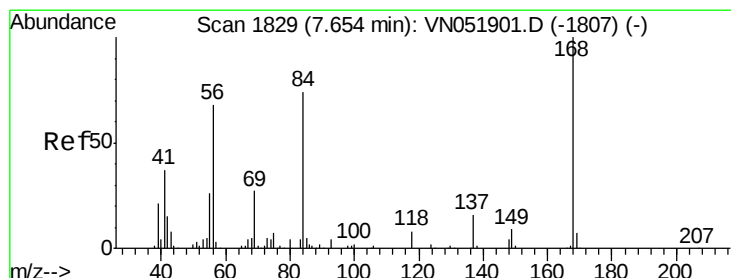
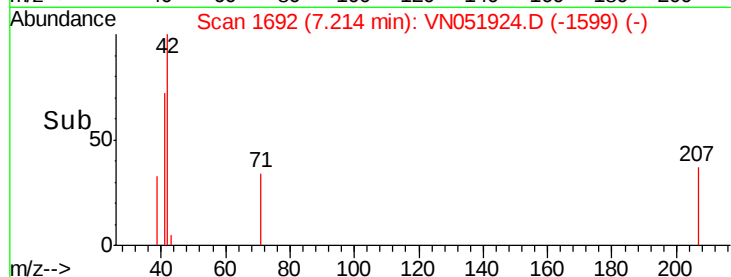
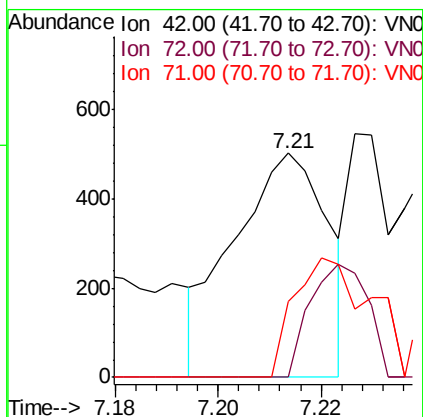
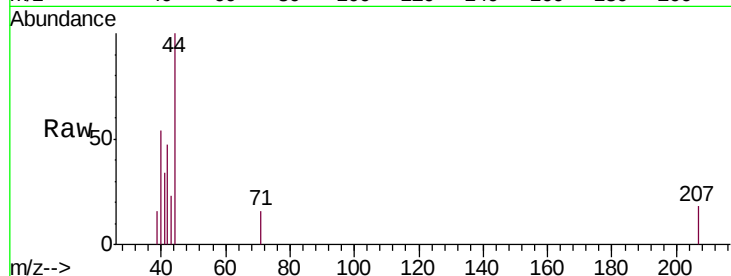




#29
Tetrahydrofuran
Concen: 0.448 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

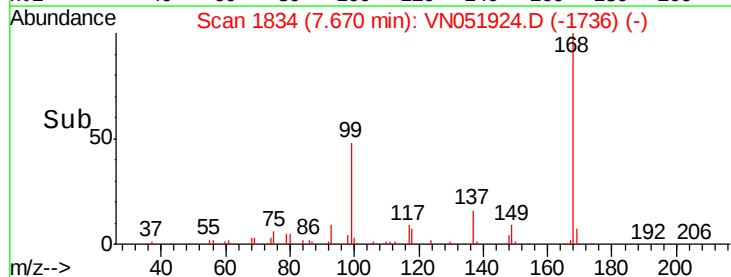
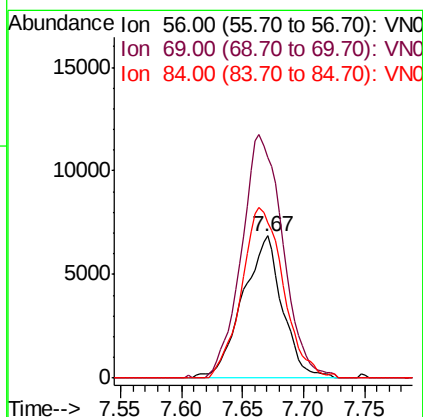
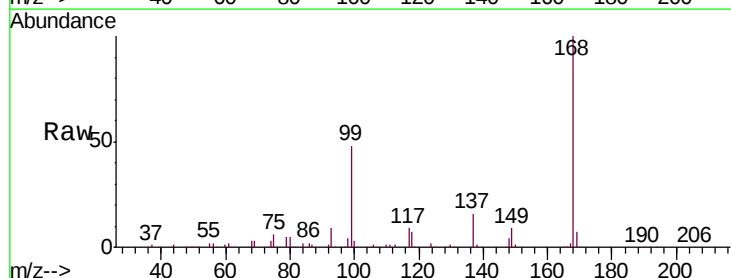
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MSVOA_N
ClientSampleId :
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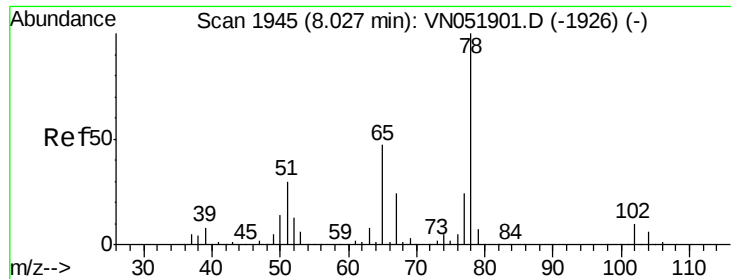
Tgt Ion: 42 Resp: 634
Ion Ratio Lower Upper
42 100
72 0.0 47.7 71.5#
71 0.0 45.4 68.0#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion: 56 Resp: 15476
Ion Ratio Lower Upper
56 100
69 155.5 31.2 46.8#
84 109.5 86.6 130.0

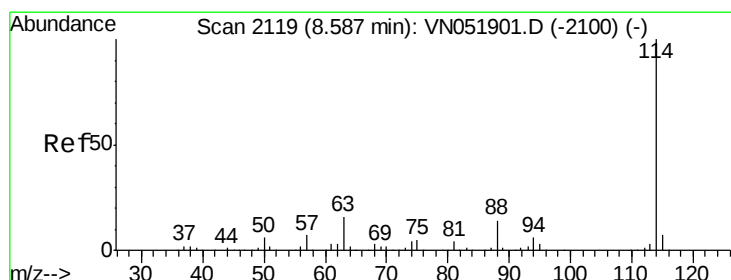
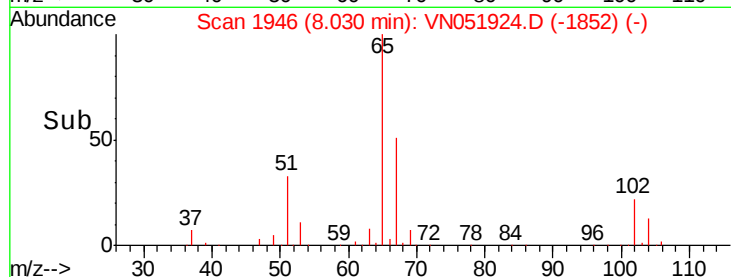
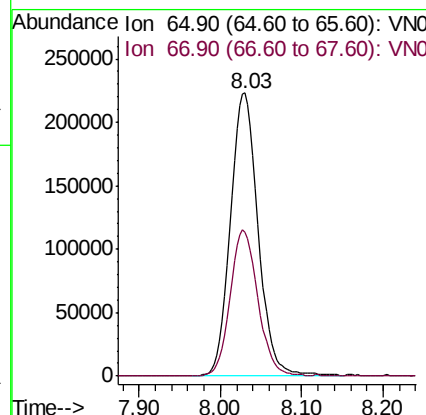
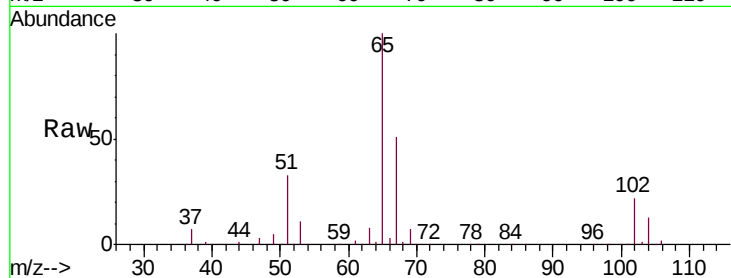




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

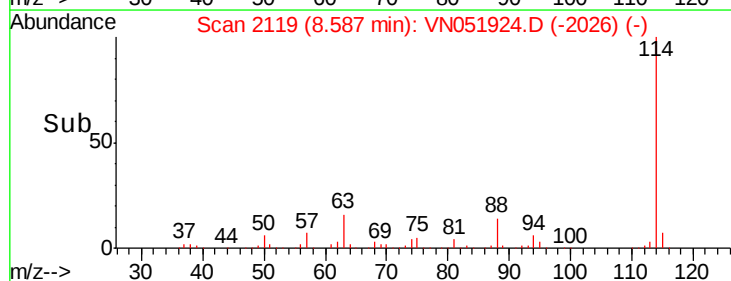
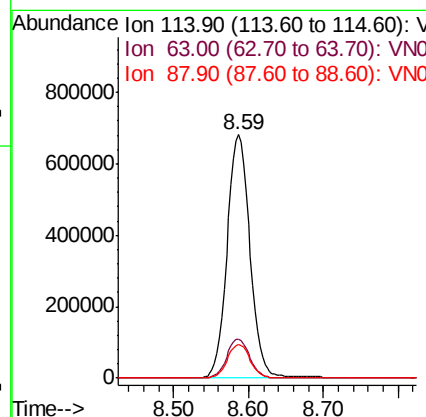
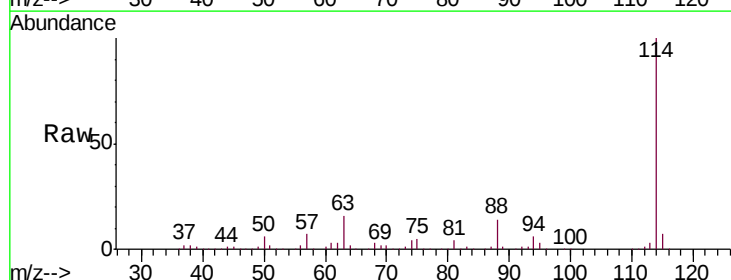
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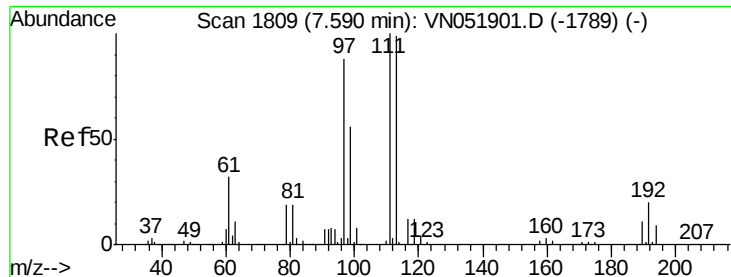
Tgt Ion: 65 Resp: 534663
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Tgt Ion: 114 Resp: 1443409
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 31.8
 88 13.7 0.0 28.0

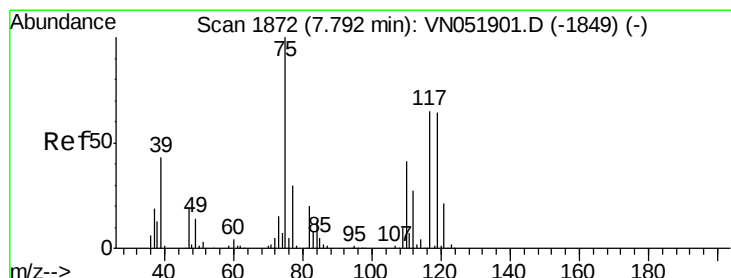
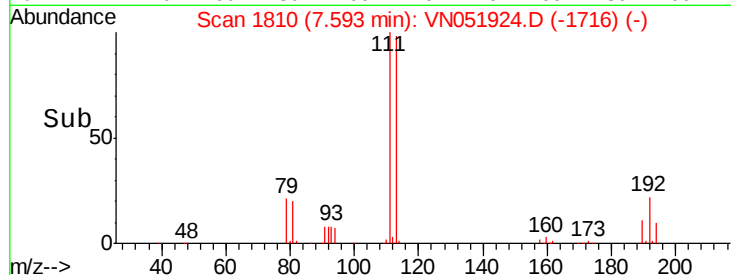
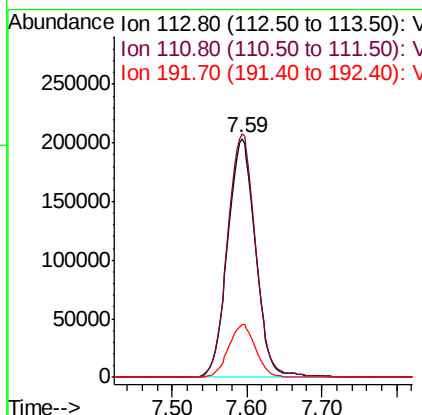
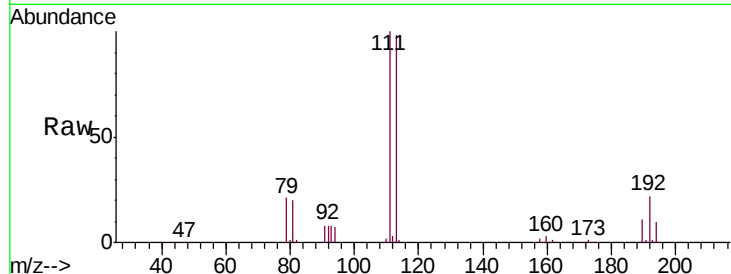




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

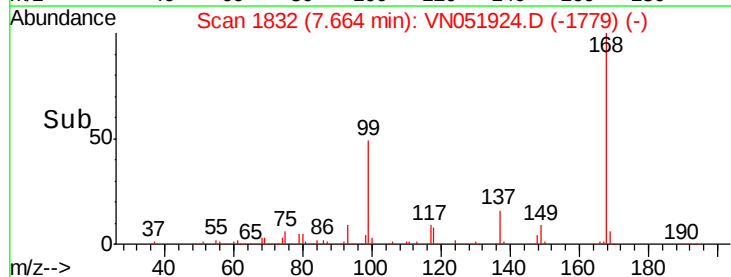
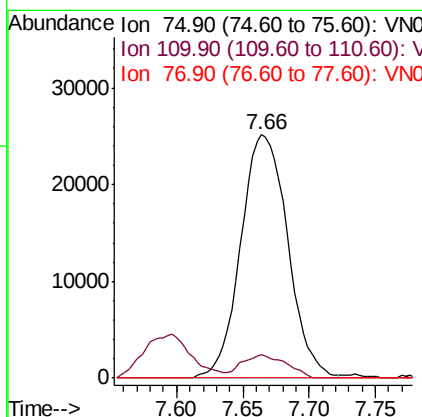
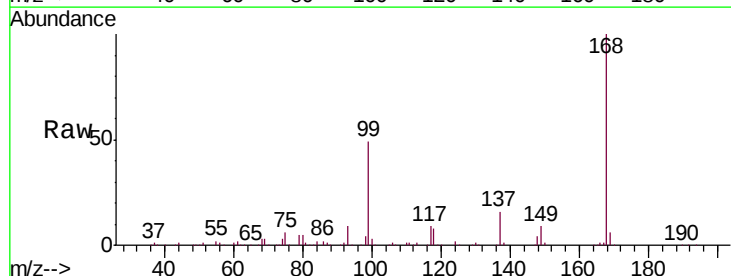
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 ClientSampleId :
 PB113908ZHE#05

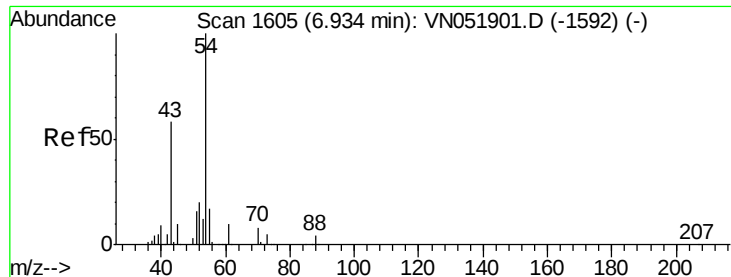
Tgt Ion:113 Resp: 527643
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.6 123.8
 192 21.5 17.3 25.9



#36
 1,1-Dichloropropene
 Concen: 5.549 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Tgt Ion: 75 Resp: 62170
 Ion Ratio Lower Upper
 75 100
 110 9.1 21.0 63.0#
 77 0.0 24.9 37.3#

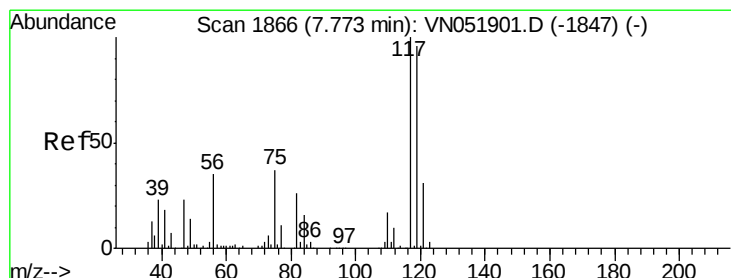
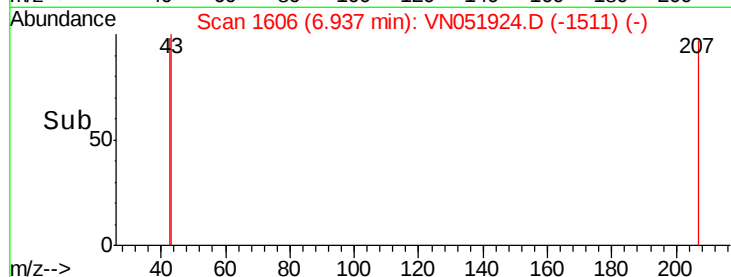
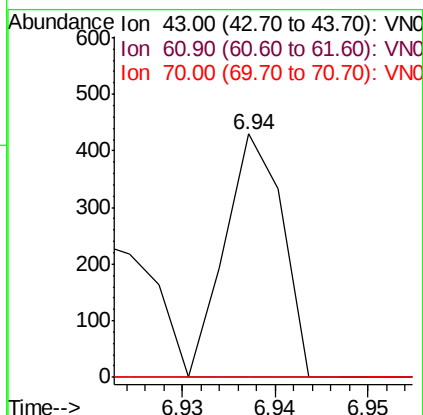
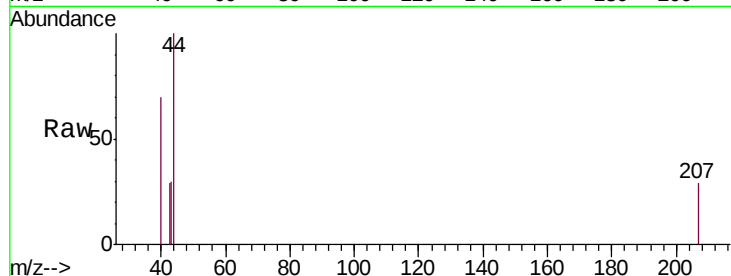




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

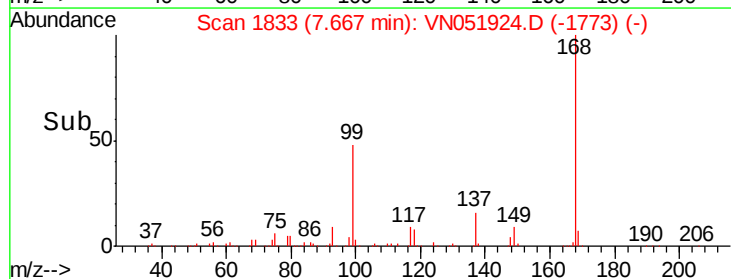
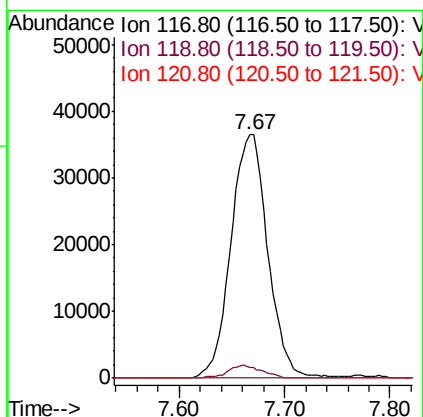
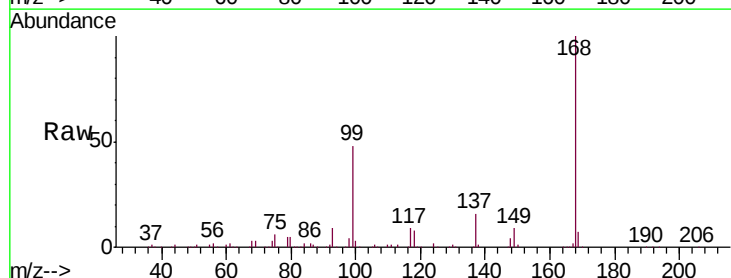
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#05

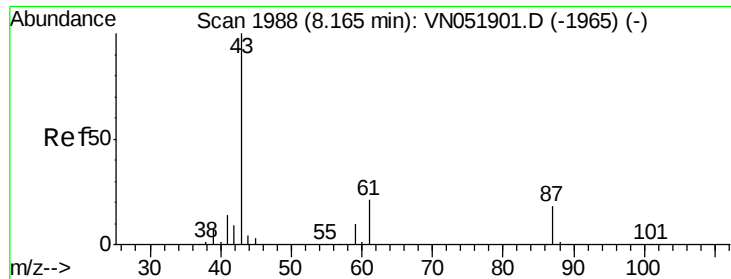
Tgt Ion: 43 Resp: 184
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 10.4 15.6#



#38
Carbon Tetrachloride
Concen: 6.705 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion: 117 Resp: 88454
Ion Ratio Lower Upper
117 100
119 4.6 77.0 115.6#
121 0.0 25.1 37.7#

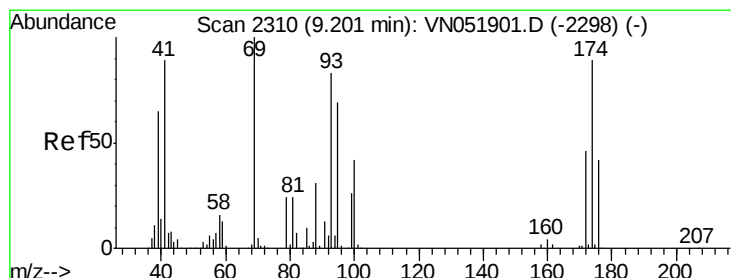
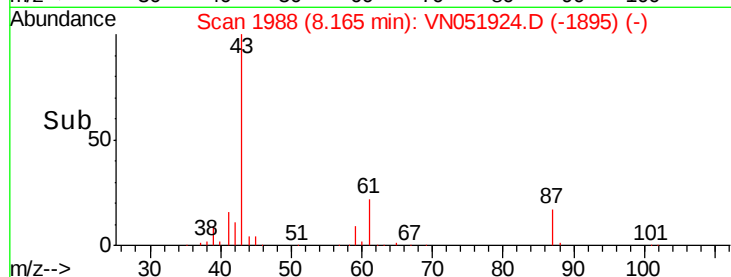
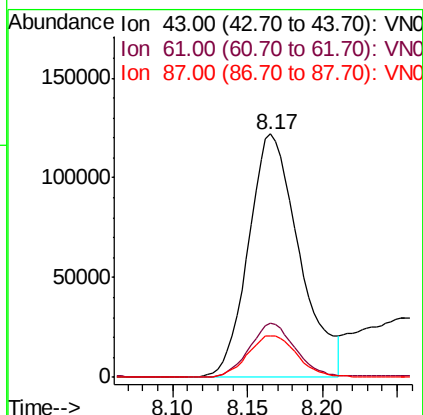
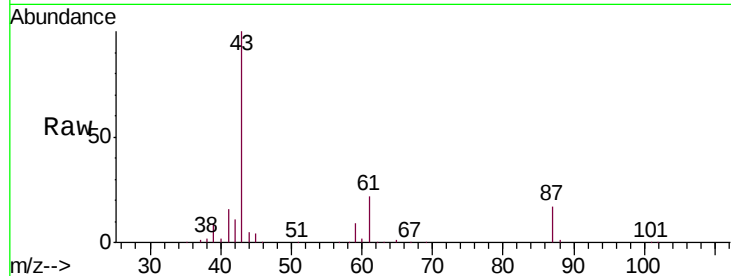




#43
Isopropyl Acetate
Concen: 27.786 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

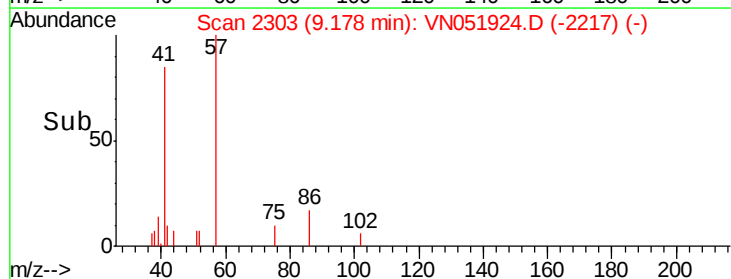
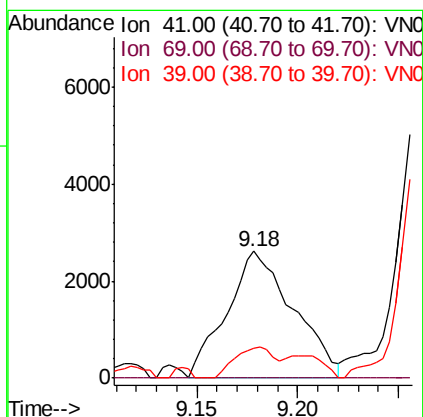
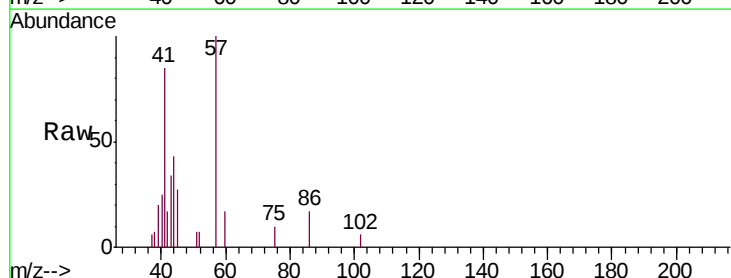
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#05

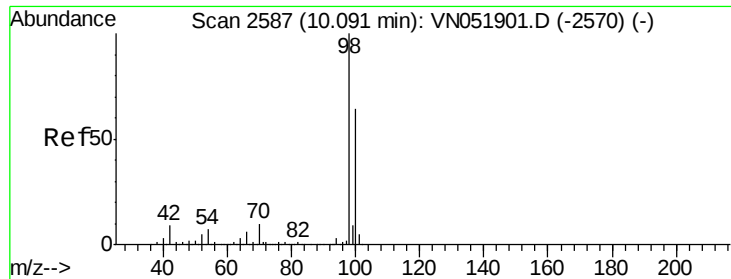
Tgt Ion: 43 Resp: 288815
Ion Ratio Lower Upper
43 100
61 20.3 24.9 37.3#
87 16.5 14.6 22.0



#48
Methyl methacrylate
Concen: 1.334 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion: 41 Resp: 6031
Ion Ratio Lower Upper
41 100
69 0.0 90.2 135.2#
39 14.6 59.7 89.5#

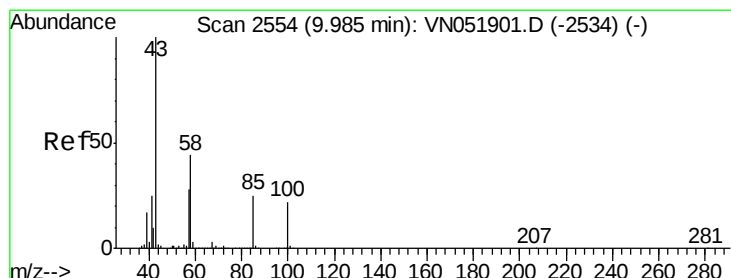
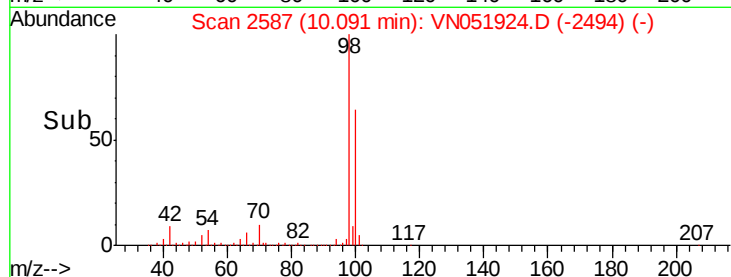
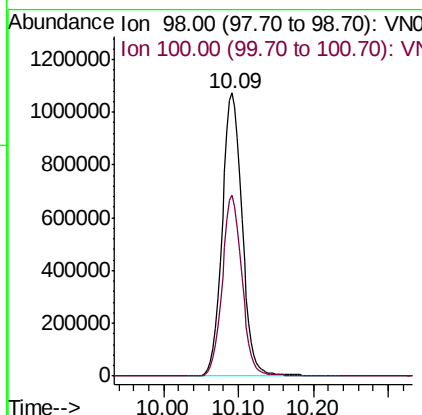
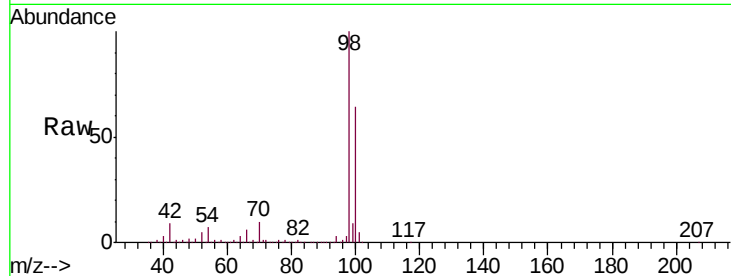




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

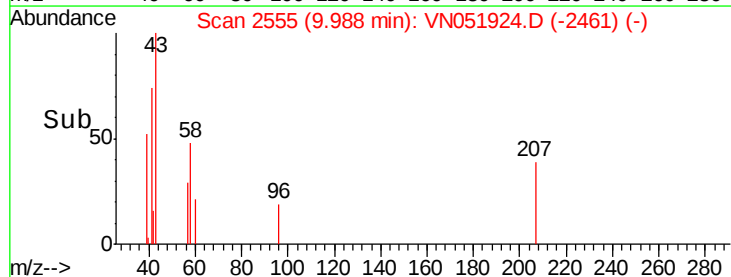
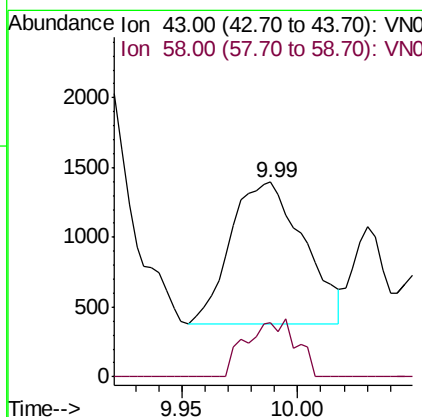
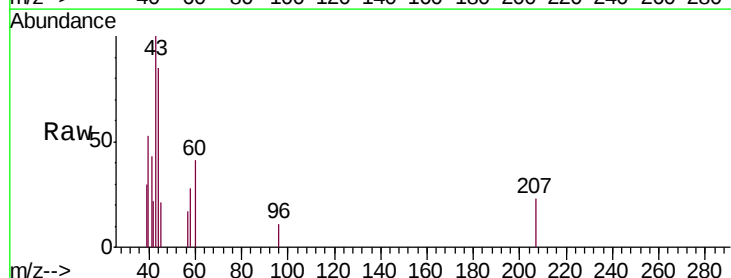
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#05

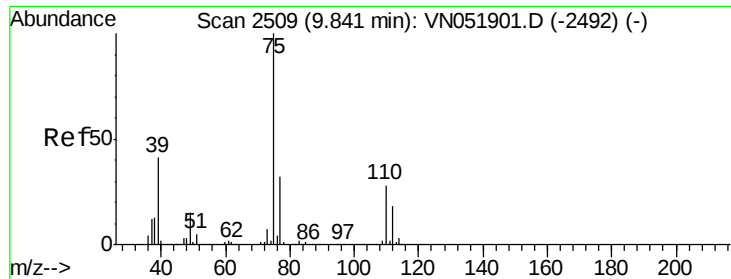
Tgt Ion: 98 Resp: 1976797
Ion Ratio Lower Upper
98 100
100 62.9 51.0 76.4



#51
4-Methyl-2-Pentanone
Concen: 0.430 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion: 43 Resp: 2241
Ion Ratio Lower Upper
43 100
58 27.3 34.6 52.0#

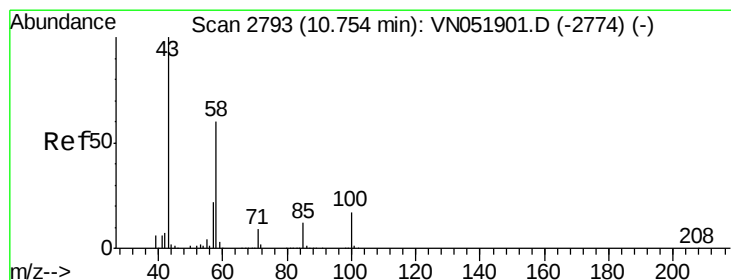
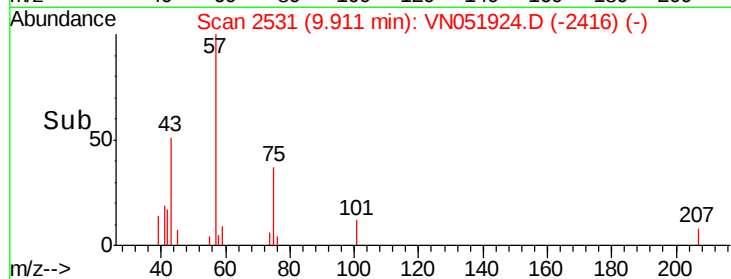
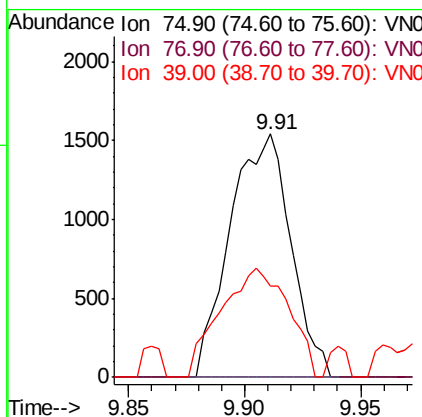
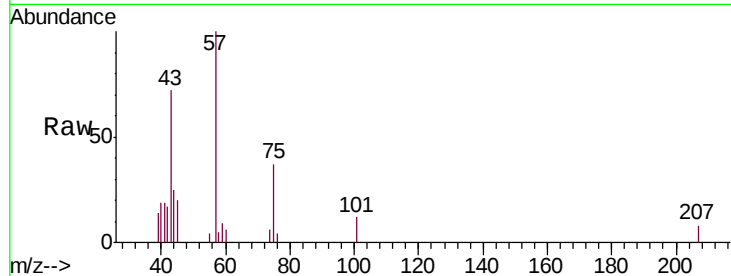




#54
 cis-1,3-Dichloropropene
 Concen: 0.229 ug/l
 RT: 9.91 min Scan# 2531
 Delta R.T. 0.07 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

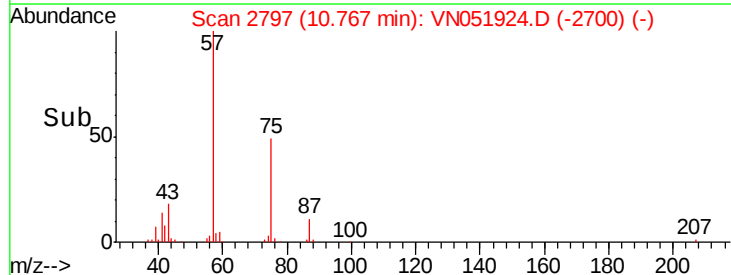
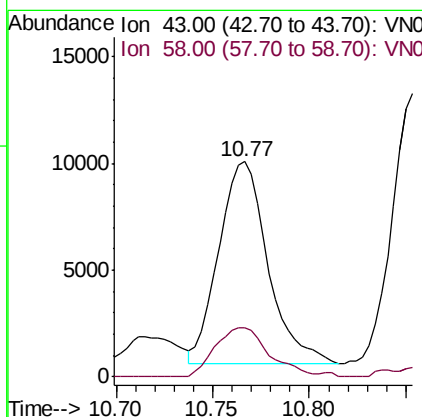
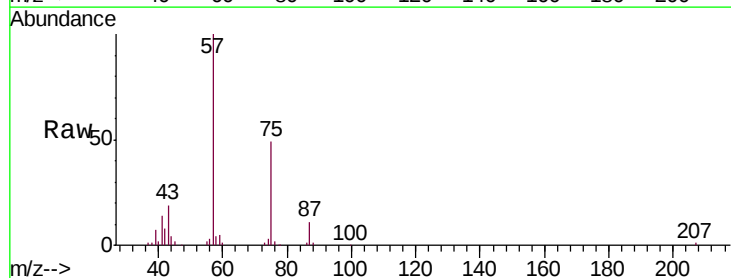
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#05

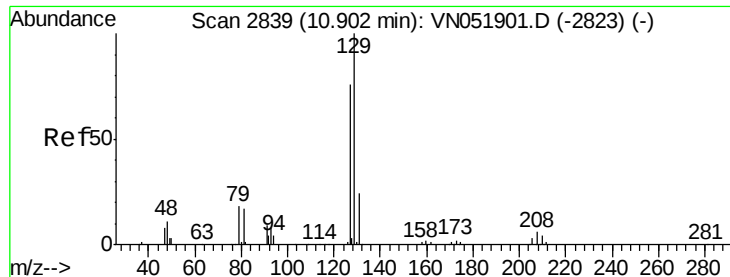
Tgt Ion: 75 Resp: 2802
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 37.5 32.8 49.2



#59
 2-Hexanone
 Concen: 4.768 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Tgt Ion: 43 Resp: 16672
 Ion Ratio Lower Upper
 43 100
 58 27.3 29.8 89.5#





#60

Dibromochloromethane

Concen: 2.058 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

Instrument :

MSVOA_N

ClientSampleId :

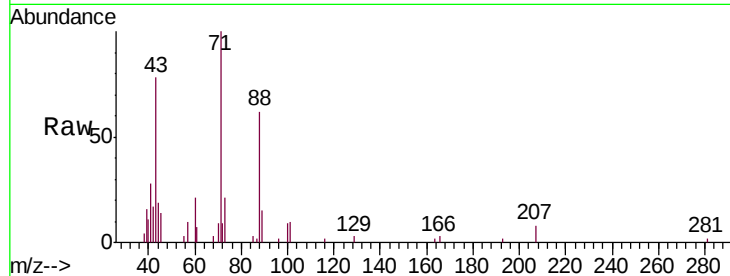
PB113908ZHE#05

Tgt Ion:129 Resp: 78

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

200

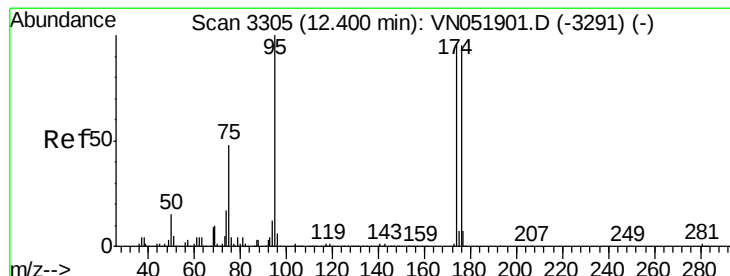
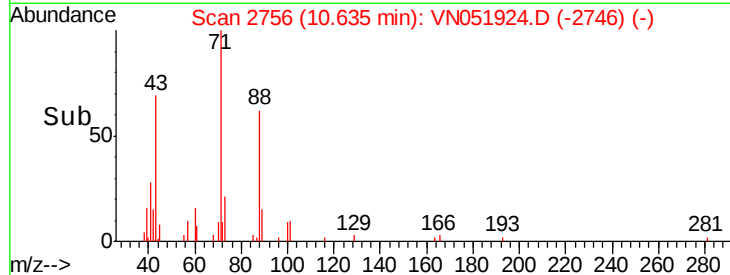
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

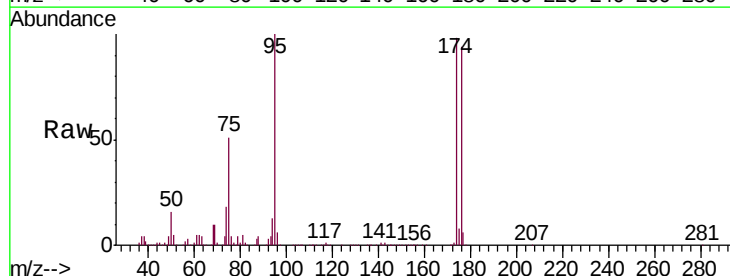
Tgt Ion: 95 Resp: 563141

Ion Ratio Lower Upper

95 100

174 97.1 0.0 195.0

176 93.0 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

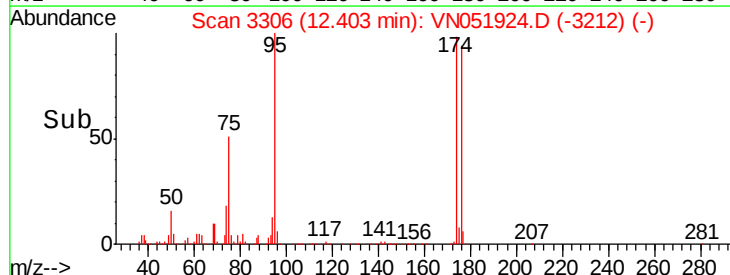
300000

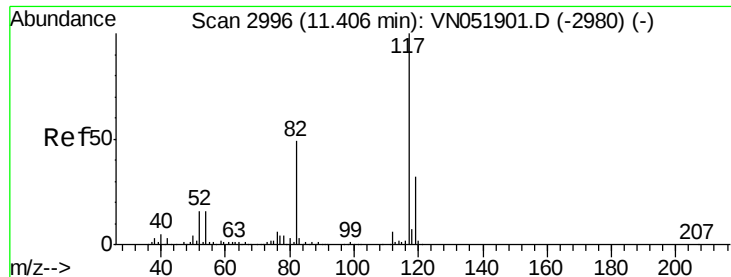
200000

100000

0

Time-->

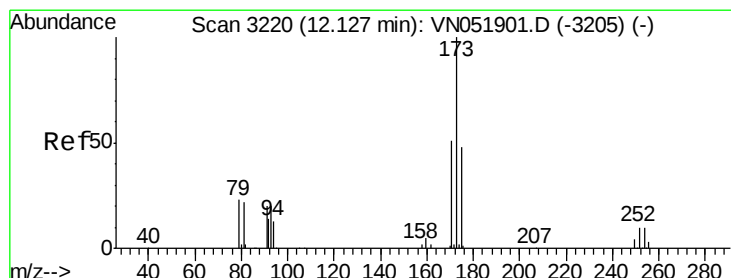
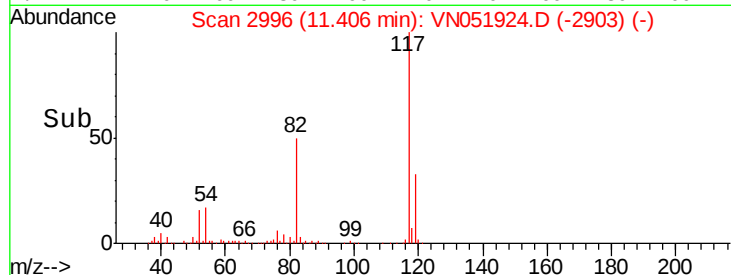
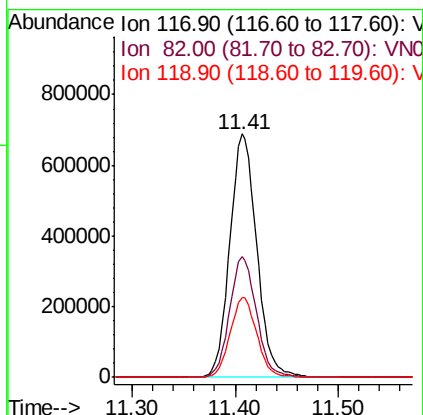
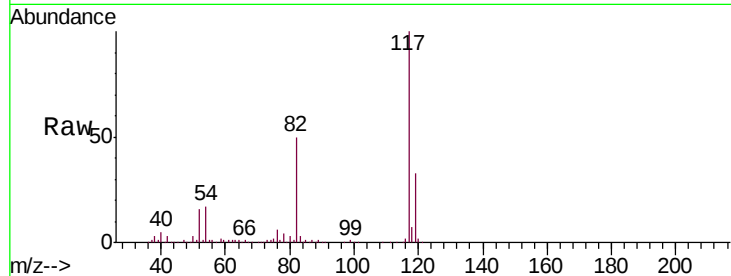




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

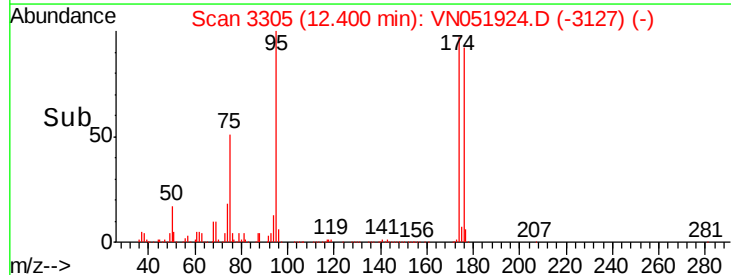
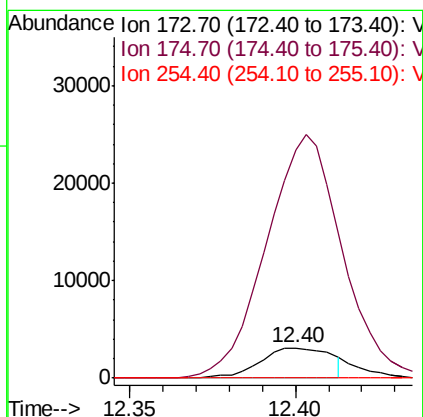
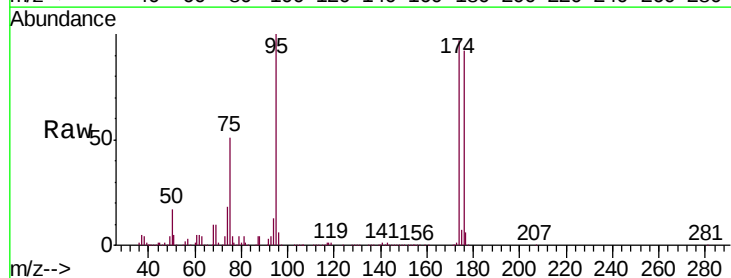
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#05

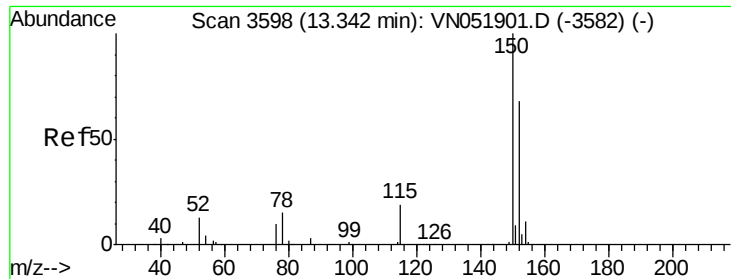
Tgt Ion:117 Resp: 1252925
Ion Ratio Lower Upper
117 100
82 49.6 38.9 58.3
119 33.0 25.9 38.9



#71
Bromoform
Concen: 3.848 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051924.D
Acq: 18 Oct 2018 18:41

Tgt Ion:173 Resp: 4600
Ion Ratio Lower Upper
173 100
175 744.5 24.0 72.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#05

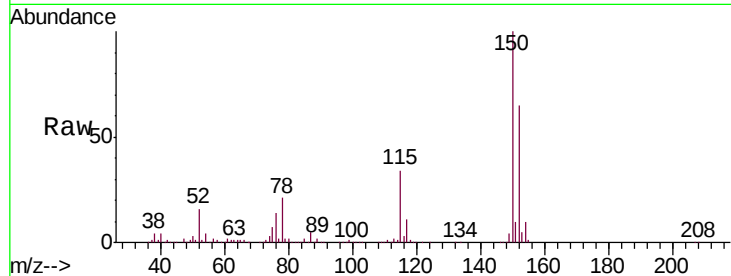
Tgt Ion:152 Resp: 457240

Ion Ratio Lower Upper

152 100

115 54.6 26.7 80.1

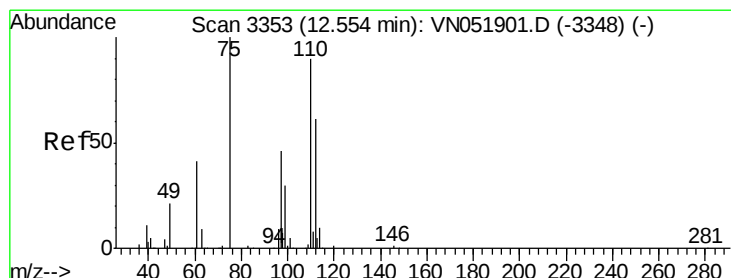
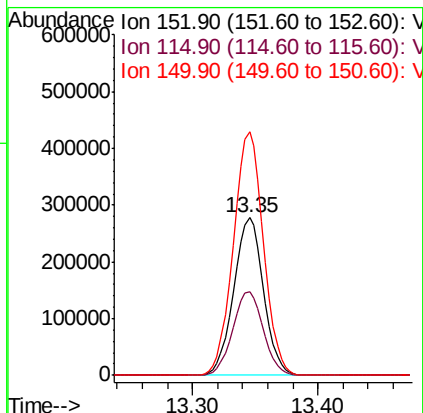
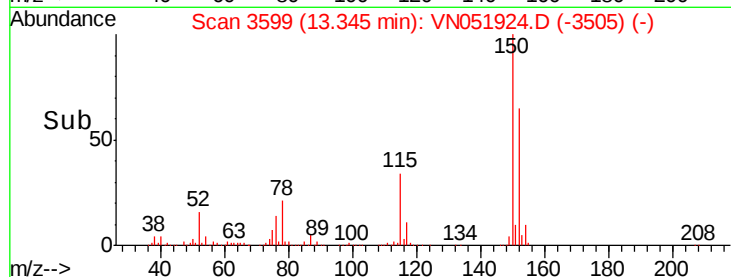
150 155.7 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 50.857 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051924.D

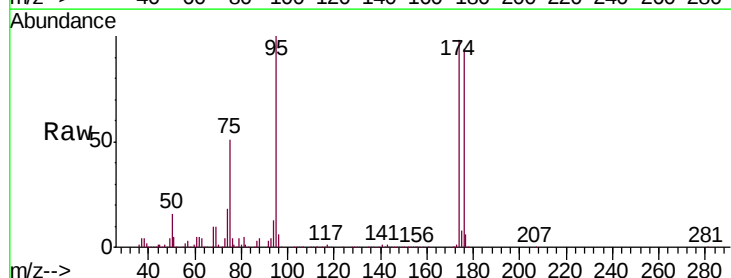
Acq: 18 Oct 2018 18:41

Tgt Ion: 75 Resp: 282638

Ion Ratio Lower Upper

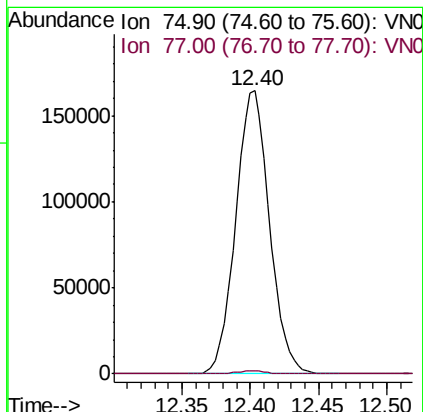
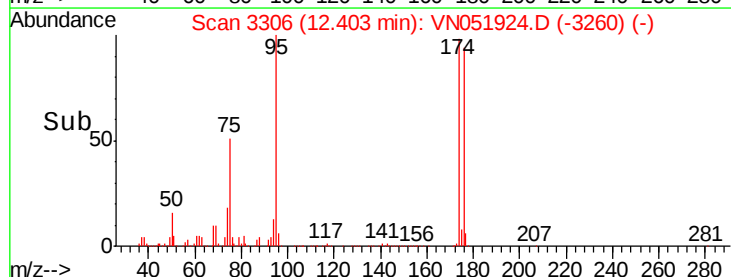
75 100

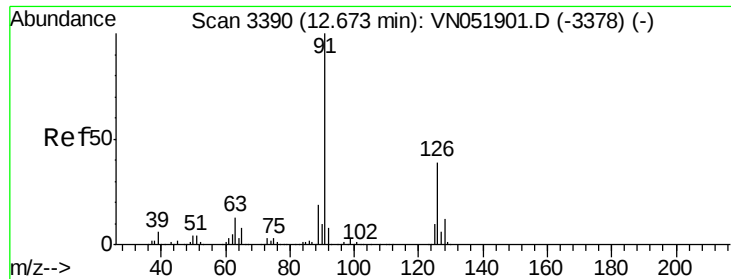
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.77 min Scan# 3421

Delta R.T. 0.10 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

Instrument :

MSVOA_N

ClientSampleId :

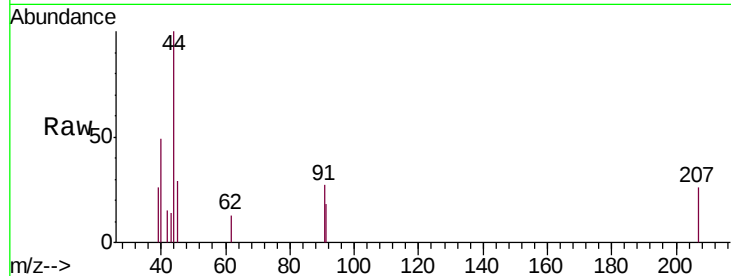
PB113908ZHE#05

Tgt Ion: 91 Resp: 528

Ion Ratio Lower Upper

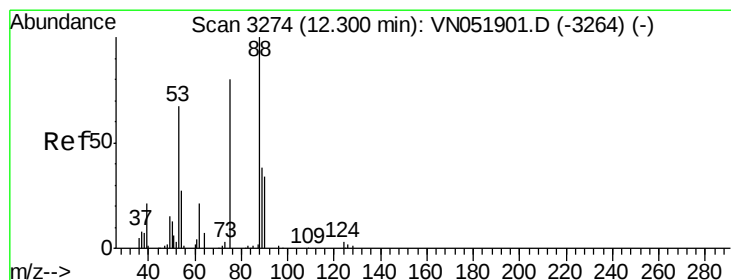
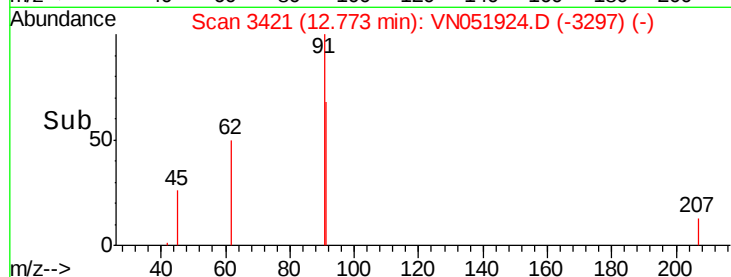
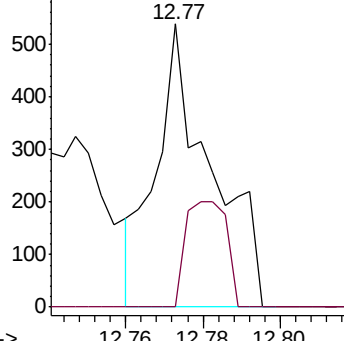
91 100

126 27.8 19.6 58.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 167.124 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051924.D

Acq: 18 Oct 2018 18:41

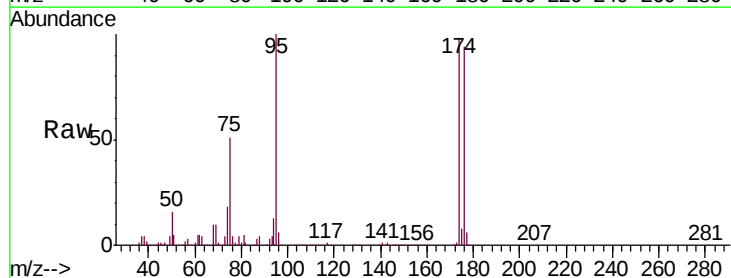
Tgt Ion: 75 Resp: 282638

Ion Ratio Lower Upper

75 100

53 0.0 68.5 102.7#

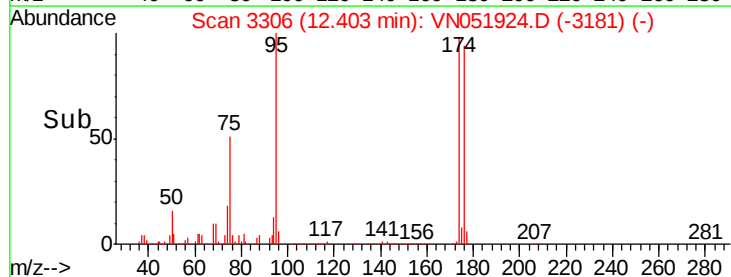
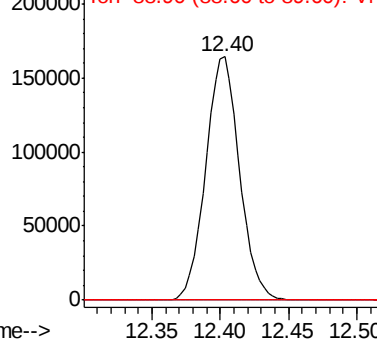
89 0.0 39.0 58.6#

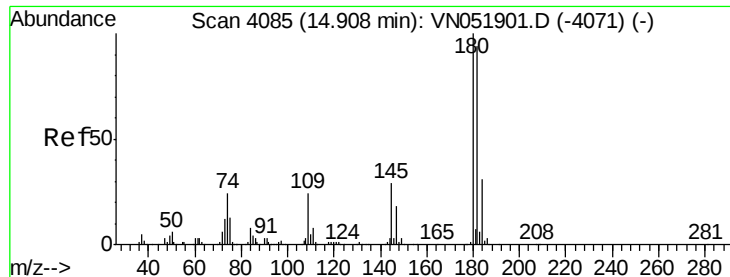


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

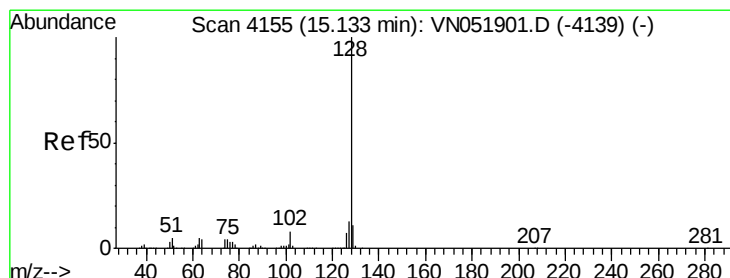
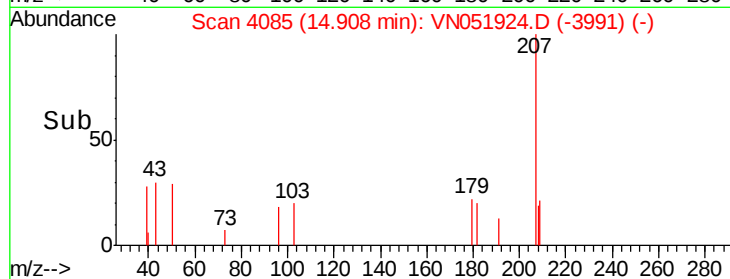
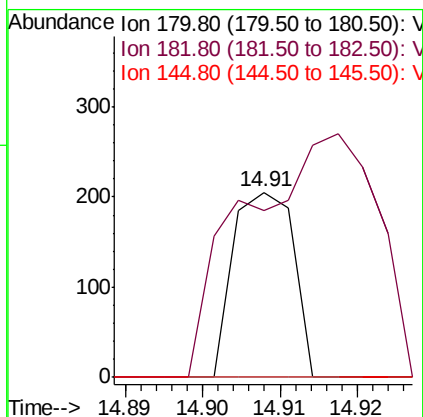
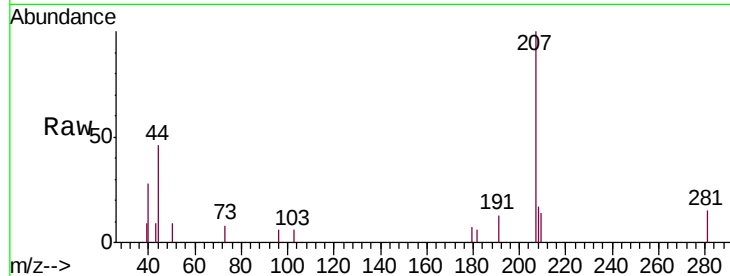




#93
 1,2,4-Trichlorobenzene
 Concen: 4.075 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

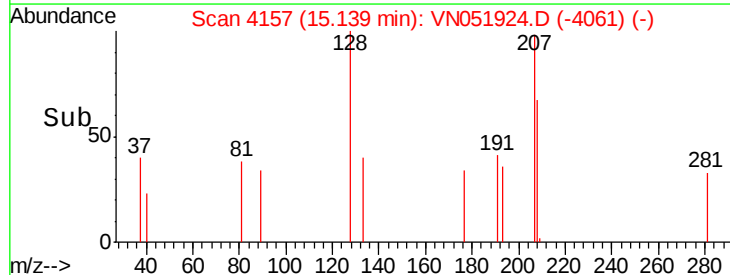
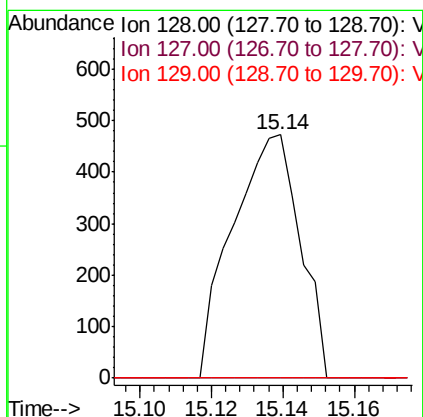
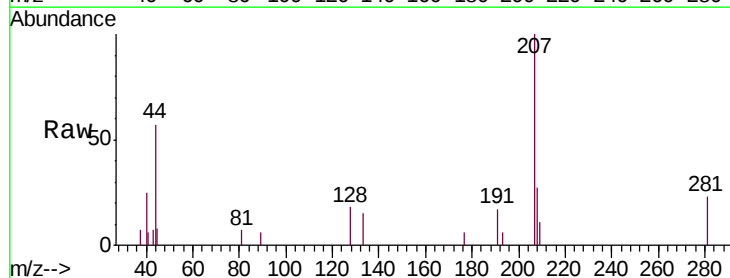
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#05

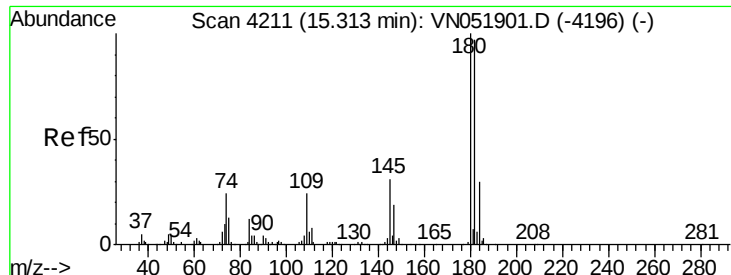
Tgt Ion:180 Resp: 112
 Ion Ratio Lower Upper
 180 100
 182 284.8 47.3 141.9#
 145 0.0 14.5 43.5#



#95
 Naphthalene
 Concen: 4.099 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Tgt Ion:128 Resp: 619
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.5 12.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.922 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN051924.D
 Acq: 18 Oct 2018 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	15.2	45.6#

