

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053847.D
 Acq On : 18 Feb 2019 17:02
 Operator : JC/SP
 Sample : PB117159ZHE#11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#11

Quant Time: Feb 19 03:02:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	634925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1075239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1024148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	379264	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	346724	54.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.86%	
35) Dibromofluoromethane	7.59	113	340374	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
50) Toluene-d8	10.09	98	1277136	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.40	95	426021	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	17581	10.761	ug/l	99
18) Methyl Acetate	4.34	43	3562	0.736	ug/l #	68
20) Methylene Chloride	4.56	84	21964	3.204	ug/l	91
25) 2-Butanone	6.85	43	3420	1.468	ug/l #	83
29) Tetrahydrofuran	7.20	42	646	0.432	ug/l #	63
31) Cyclohexane	7.67	56	8948	0.664	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	36306	3.746	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51042	5.227	ug/l #	16
43) Isopropyl Acetate	8.18	43	32751	3.133	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	1708	0.223	ug/l #	43
48) Methyl methacrylate	9.18	41	9434	1.890	ug/l #	12
49) 1,4-Dioxane	9.27	88	59	39.882	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8170	1.590	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	64605	5.682	ug/l #	63
56) Ethyl methacrylate	10.54	69	1691	0.224	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13058	1.195	ug/l #	43
59) 2-Hexanone	10.76	43	163747	46.952	ug/l #	51
71) Bromoform	12.41	173	3133	0.602	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	194167	39.858	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5824	0.263	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	194167	112.079	ug/l #	15

(#) = 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: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

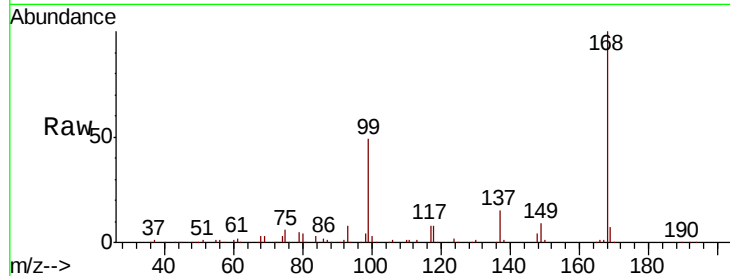
PB117159ZHE#11

Tgt Ion:168 Resp: 634925

Ion Ratio Lower Upper

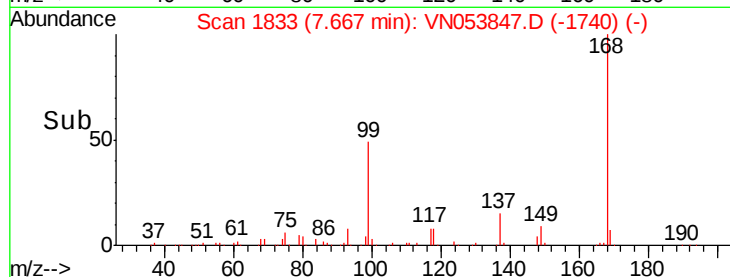
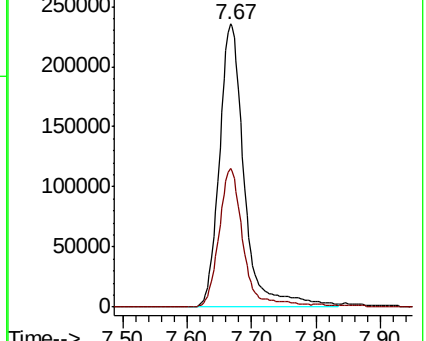
168 100

99 49.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053847.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053847.D (-1740) (-)



#16

Acetone

Concen: 10.761 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053847.D

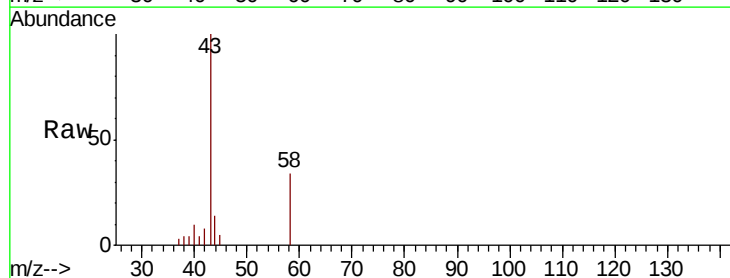
Acq: 18 Feb 2019 17:02

Tgt Ion: 43 Resp: 17581

Ion Ratio Lower Upper

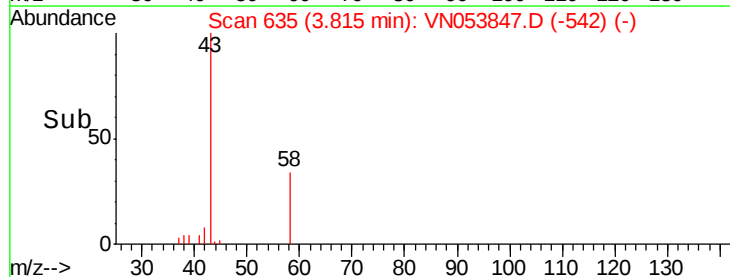
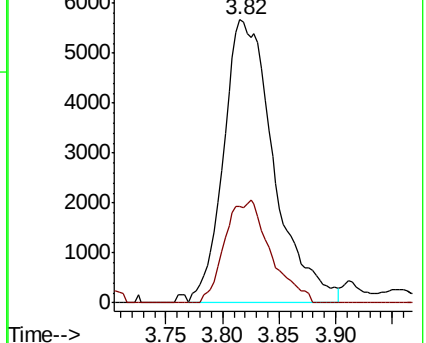
43 100

58 34.2 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053847.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053847.D (-542) (-)

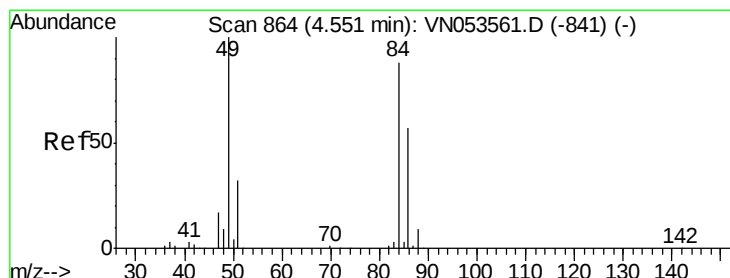
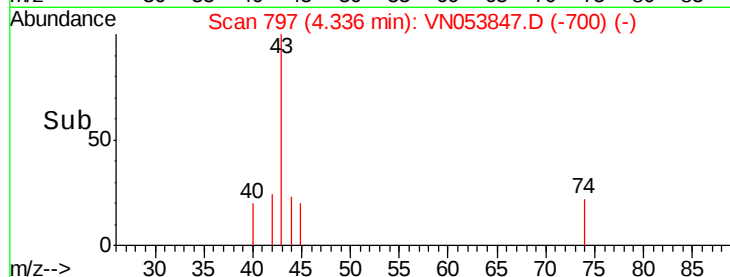
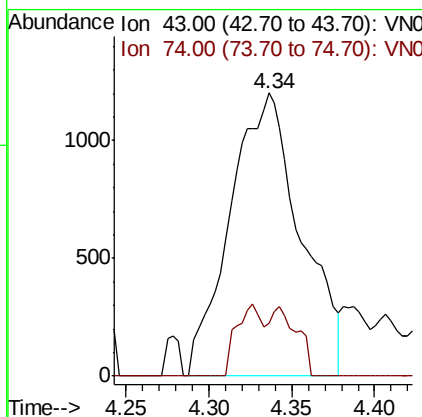
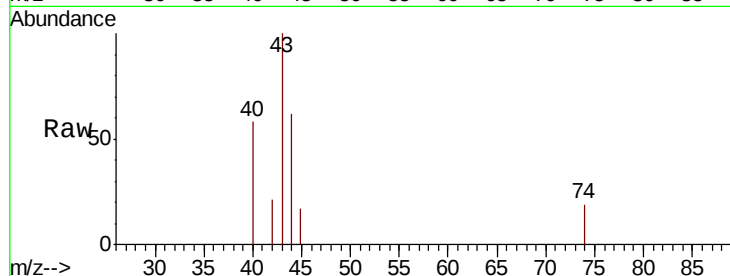




#18
Methyl Acetate
Concen: 0.736 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

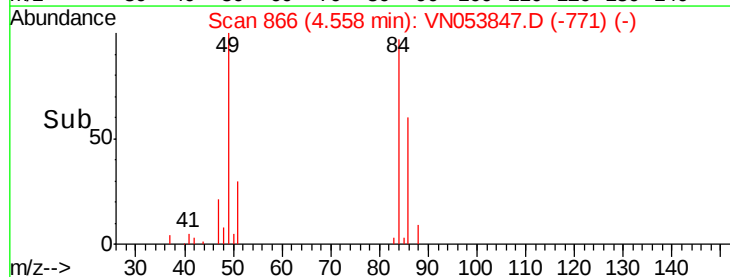
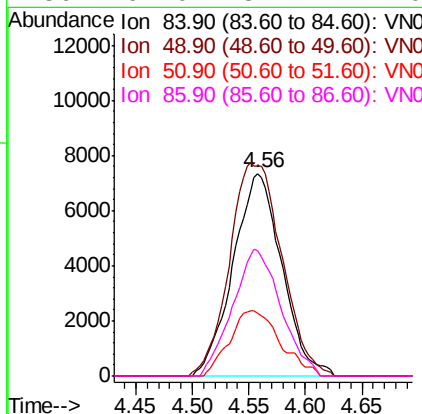
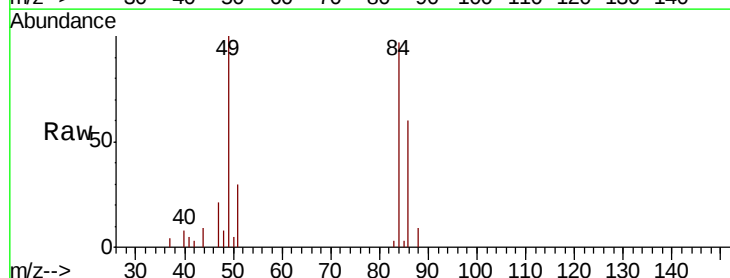
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#11

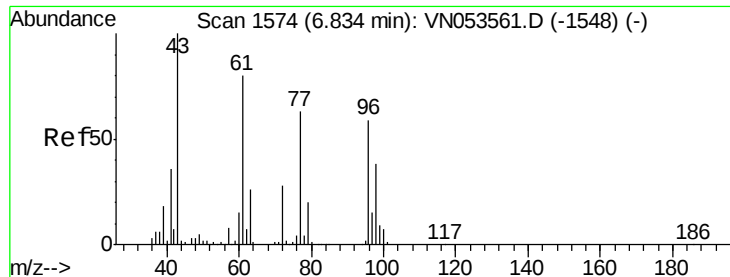
Tgt Ion: 43 Resp: 3562
Ion Ratio Lower Upper
43 100
74 8.5 19.4 29.2#



#20
Methylene Chloride
Concen: 3.204 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Tgt Ion: 84 Resp: 21964
Ion Ratio Lower Upper
84 100
49 103.6 94.3 141.5
51 31.1 29.4 44.2
86 62.0 51.4 77.0





#25

2-Butanone

Concen: 1.468 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

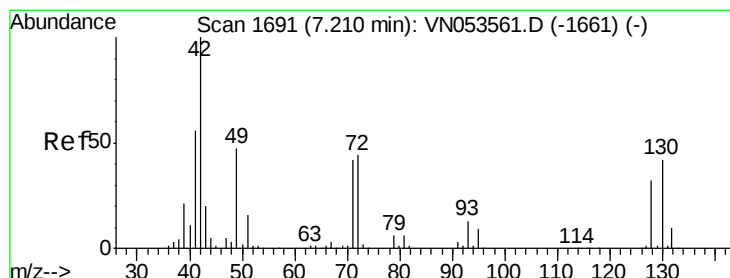
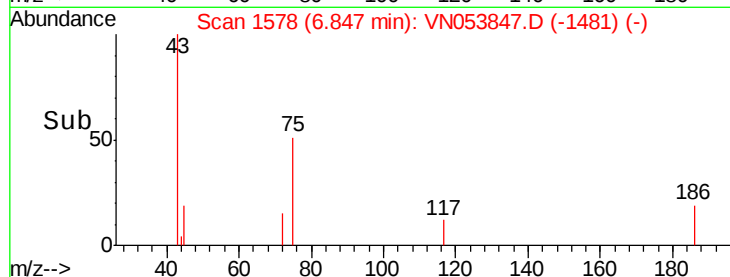
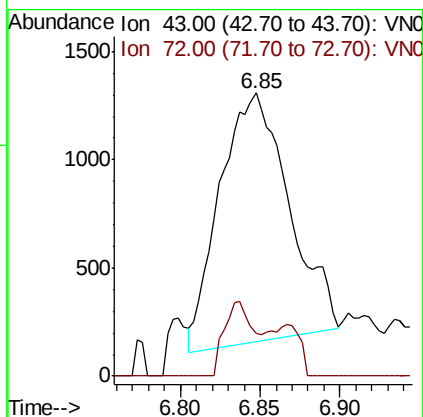
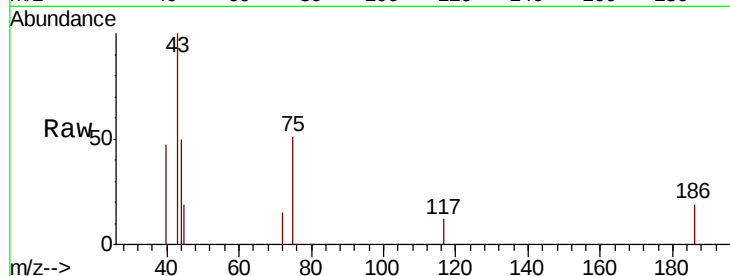
PB117159ZHE#11

Tgt Ion: 43 Resp: 3420

Ion Ratio Lower Upper

43 100

72 18.5 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

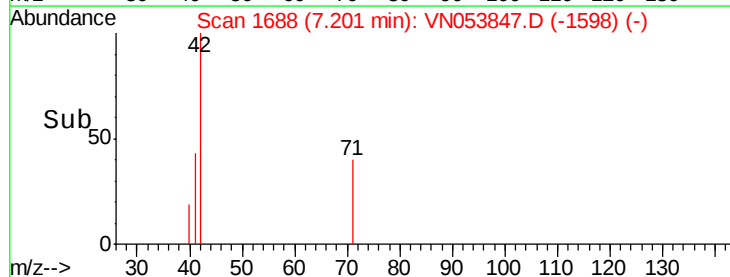
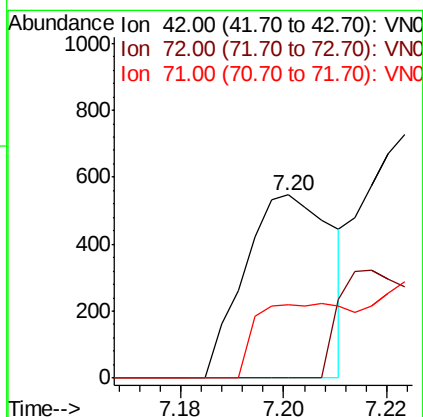
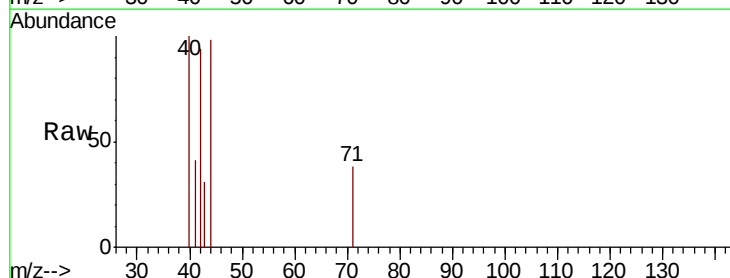
Tgt Ion: 42 Resp: 646

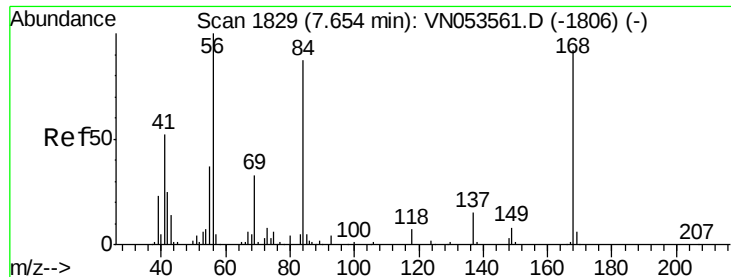
Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

71 44.0 33.0 49.4

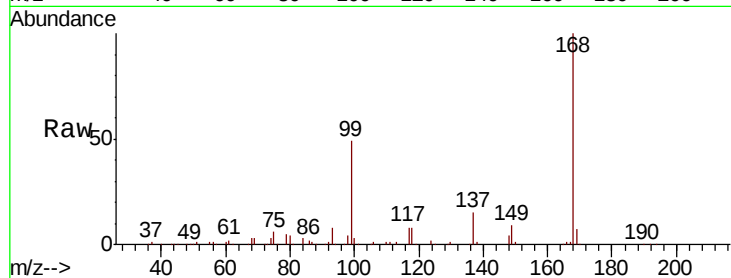




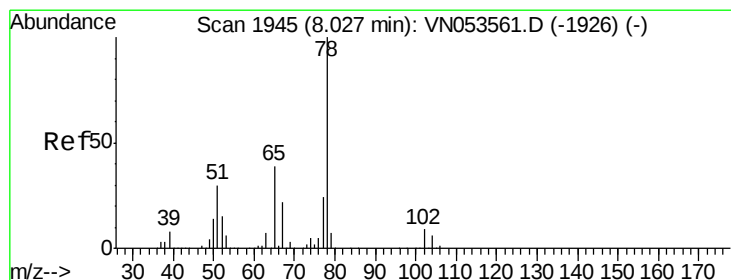
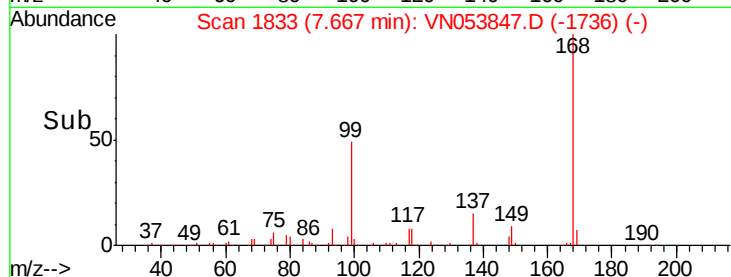
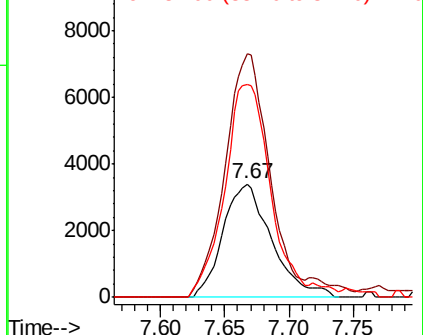
#31
Cyclohexane
Concen: 0.664 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#11

Tgt Ion: 56 Resp: 8948
Ion Ratio Lower Upper
56 100
69 214.5 26.4 39.6#
84 187.7 67.9 101.9#

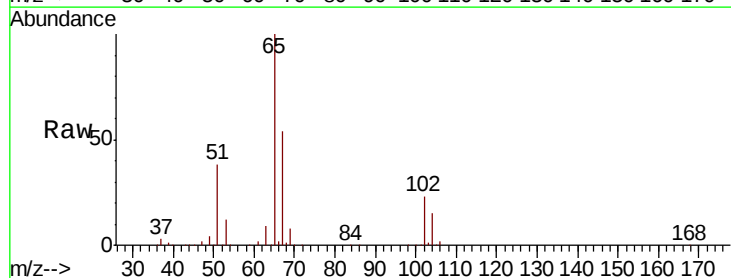


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

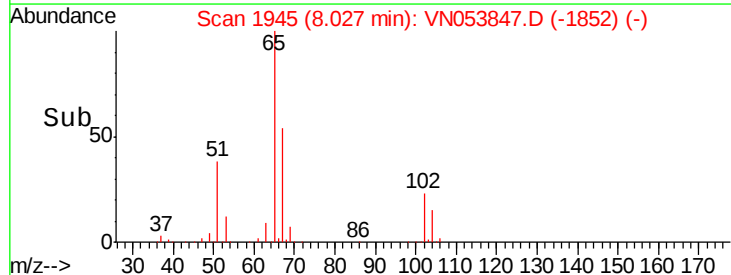
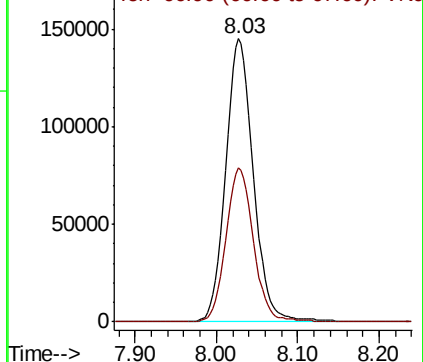


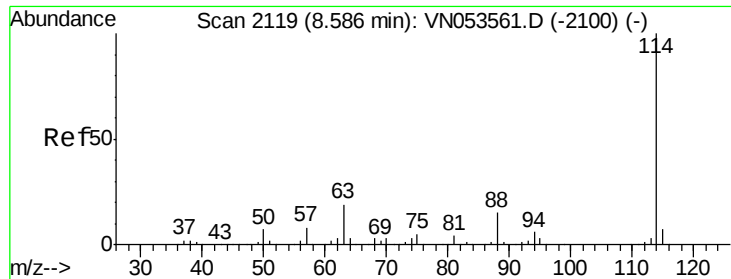
#33
1,2-Dichloroethane-d4
Concen: 54.435 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Tgt Ion: 65 Resp: 346724
Ion Ratio Lower Upper
65 100
67 54.4 0.0 111.2



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

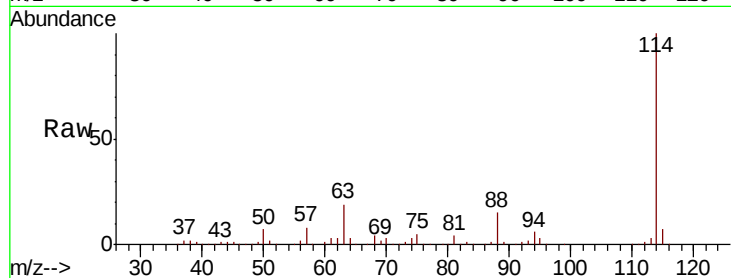




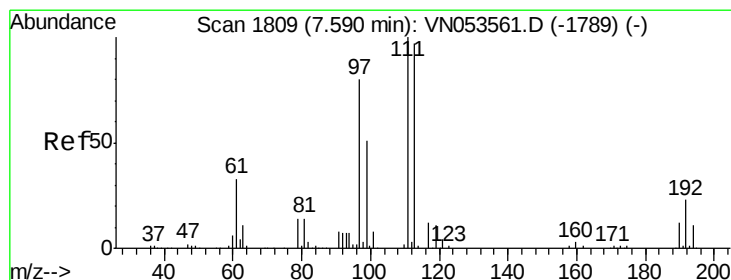
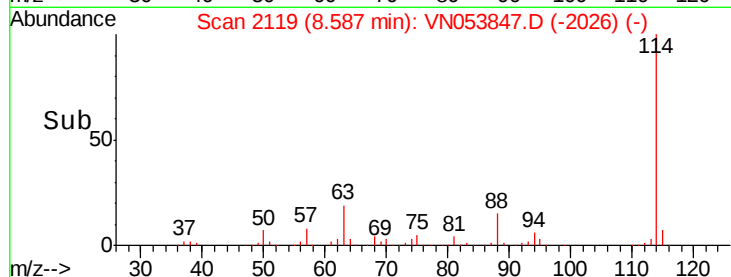
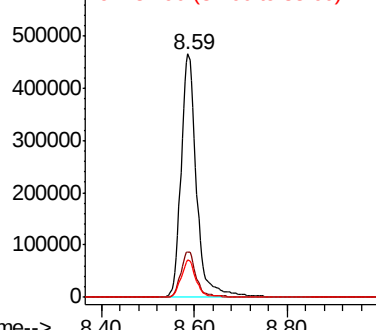
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

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MSVOA_N
ClientSampleId :
PB117159ZHE#11

Tgt Ion:114 Resp: 1075239
Ion Ratio Lower Upper
114 100
63 18.8 0.0 38.6
88 15.4 0.0 30.4

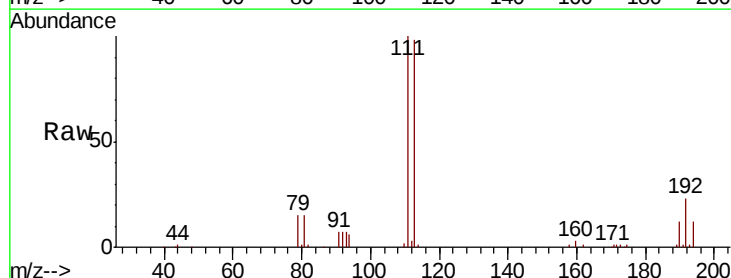


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

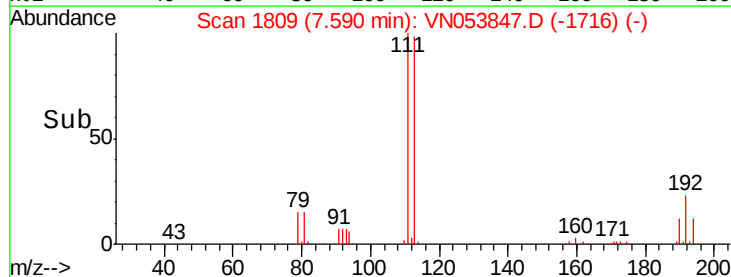
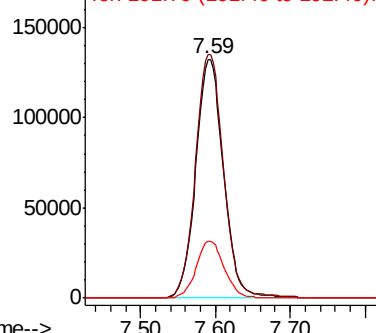


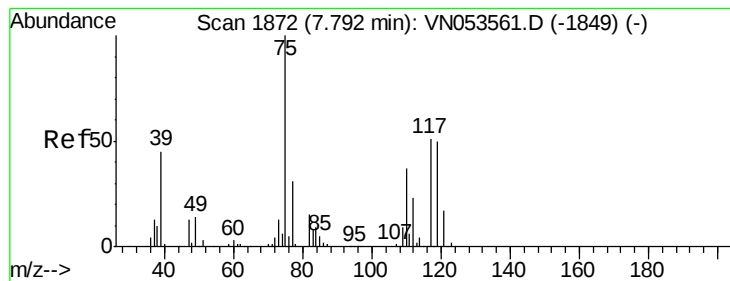
#35
Dibromofluoromethane
Concen: 50.098 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Tgt Ion:113 Resp: 340374
Ion Ratio Lower Upper
113 100
111 102.9 81.1 121.7
192 24.0 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.746 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11

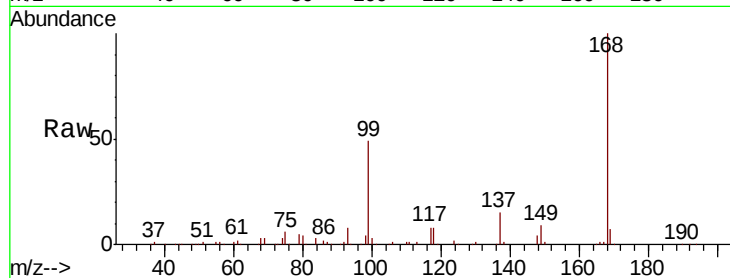
Tgt Ion: 75 Resp: 36306

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.3#

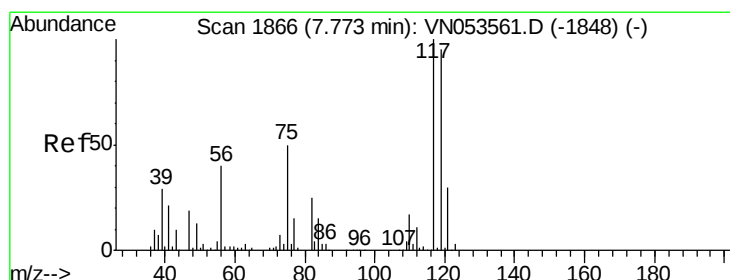
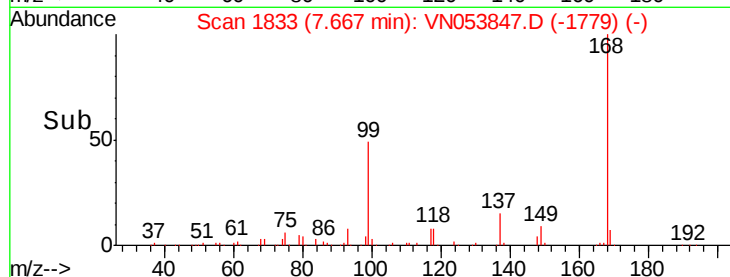
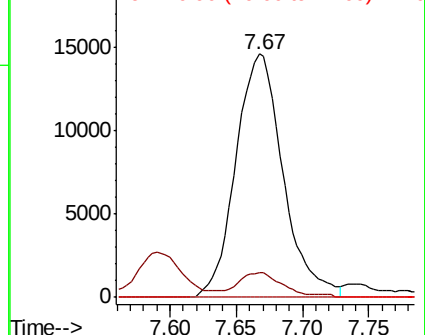
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053847.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053847.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053847.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 5.227 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

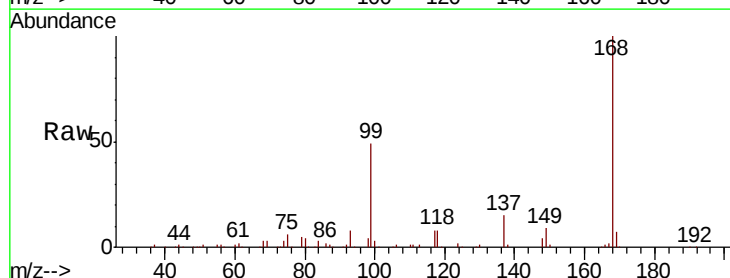
Tgt Ion: 117 Resp: 51042

Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

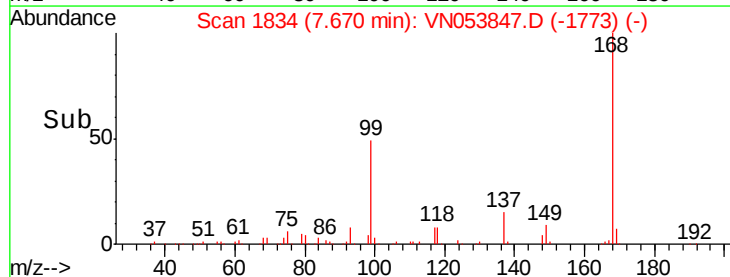
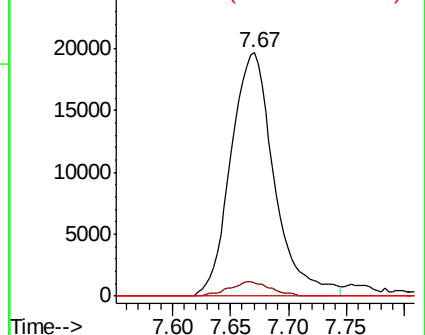
121 0.0 24.6 37.0#

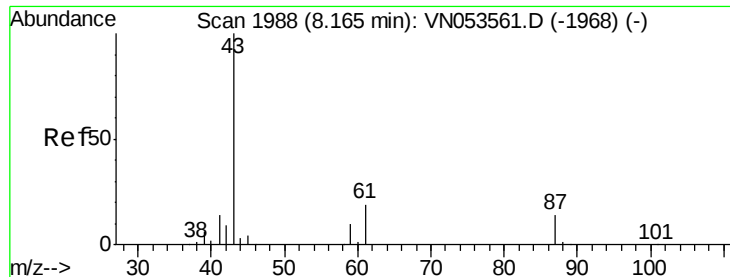


Abundance Ion 116.80 (116.50 to 117.50): VN053847.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053847.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053847.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 3.133 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11

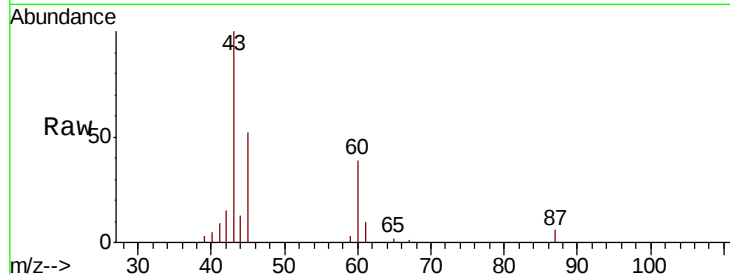
Tgt Ion: 43 Resp: 32751

Ion Ratio Lower Upper

43 100

61 18.6 23.9 35.9#

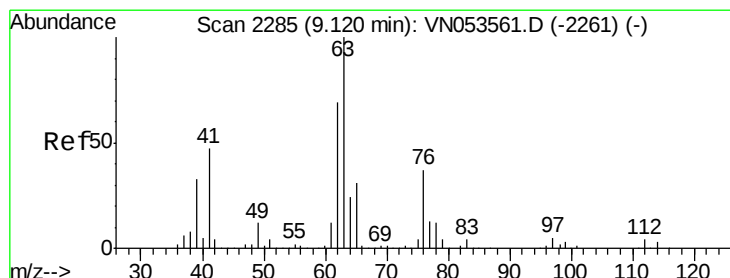
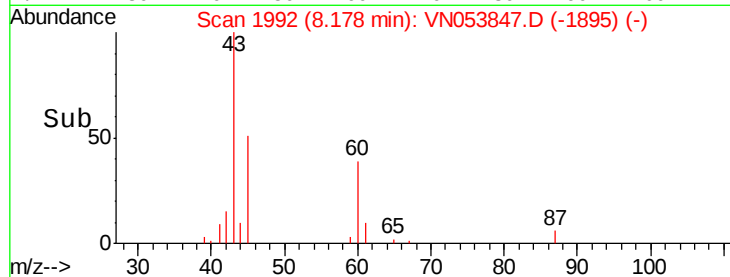
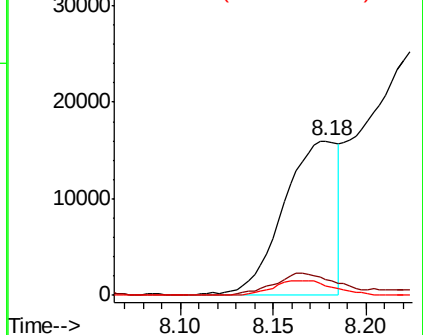
87 10.6 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.223 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053847.D

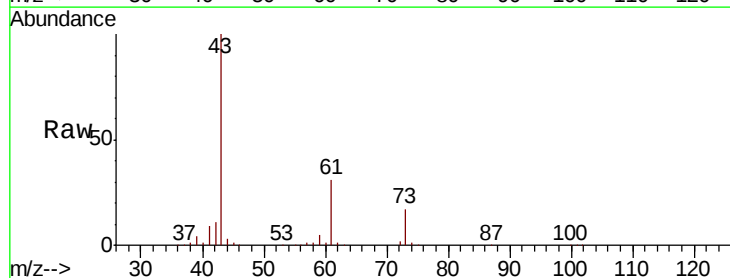
Acq: 18 Feb 2019 17:02

Tgt Ion: 63 Resp: 1708

Ion Ratio Lower Upper

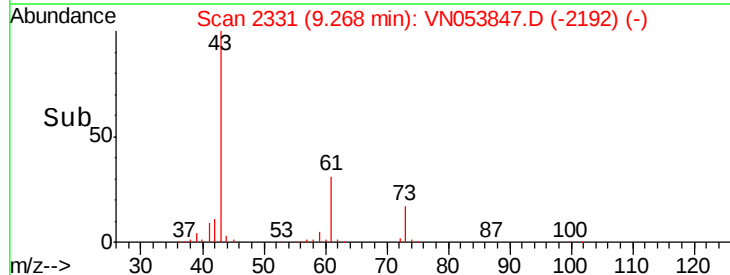
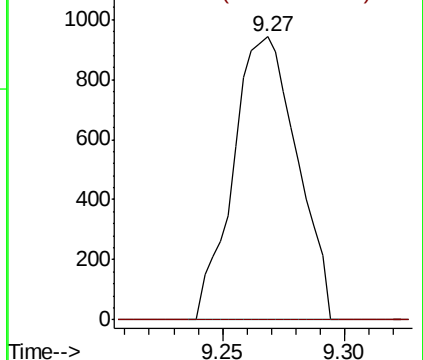
63 100

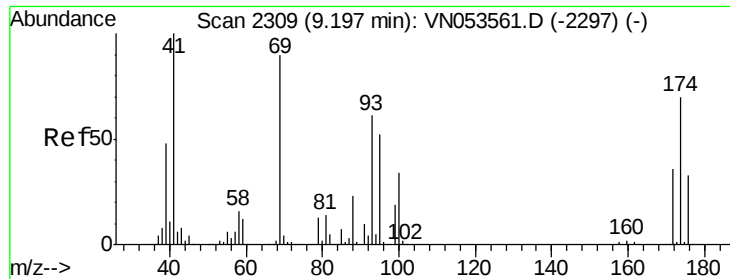
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

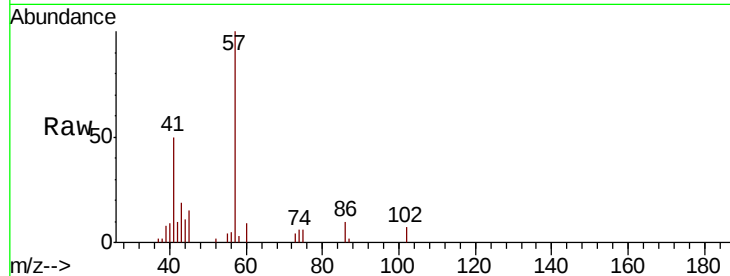




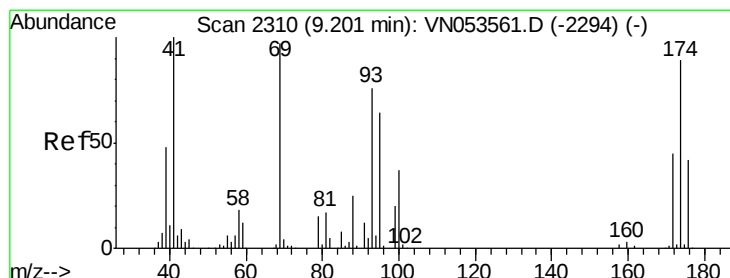
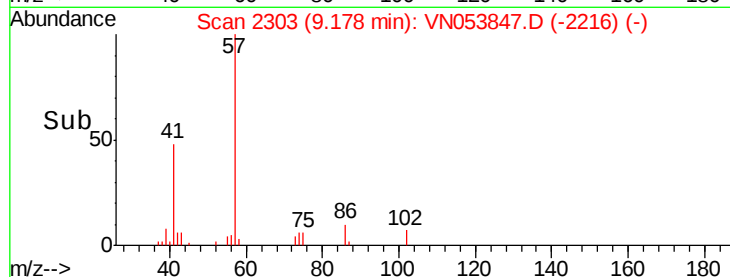
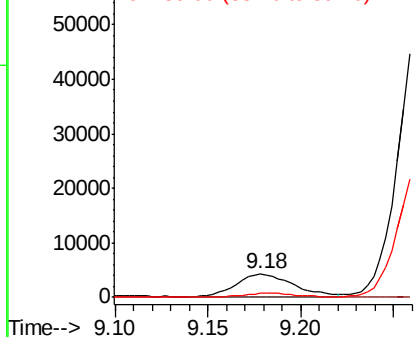
#48
Methyl methacrylate
Concen: 1.890 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#11

Tgt Ion: 41 Resp: 9434
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

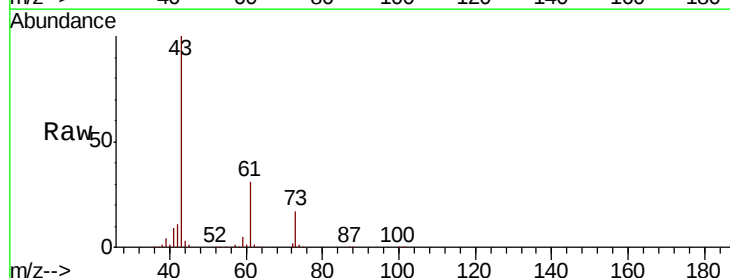


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

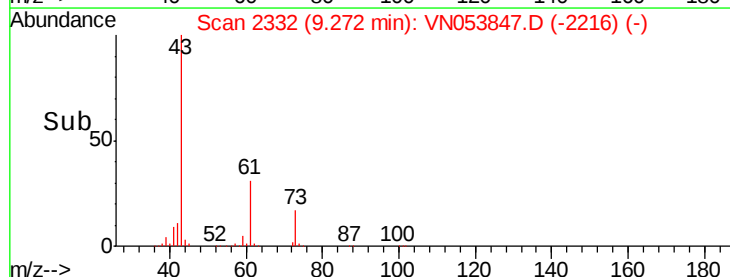
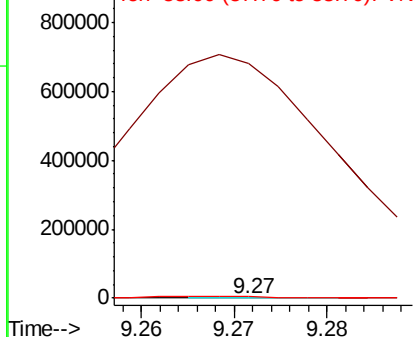


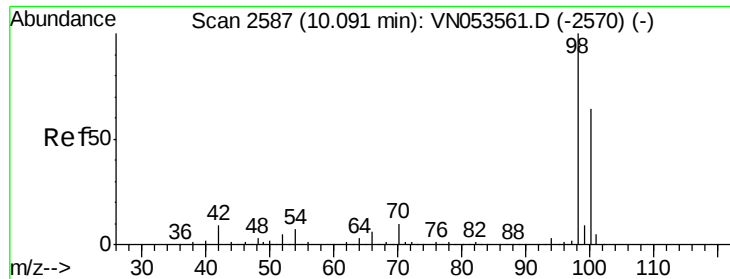
#49
1,4-Dioxane
Concen: 39.882 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN053847.D
Acq: 18 Feb 2019 17:02

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 2410096.6 27.8 41.6#
58 12442.4 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 50.063 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

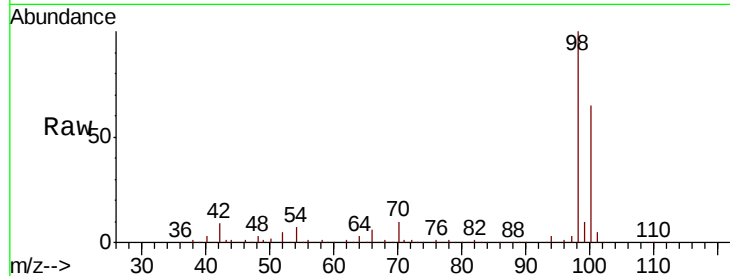
PB117159ZHE#11

Tgt Ion: 98 Resp: 1277136

Ion Ratio Lower Upper

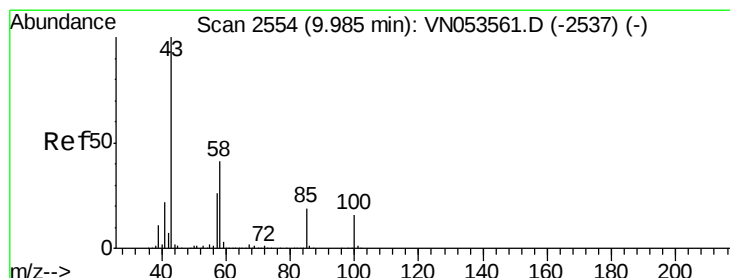
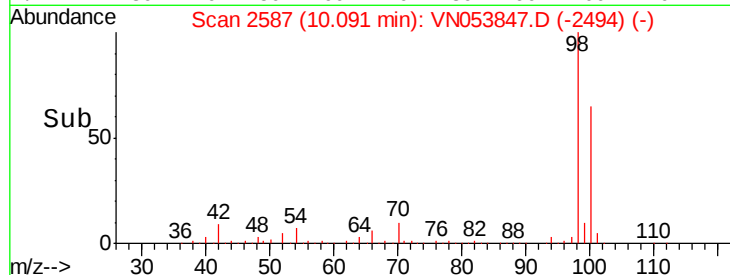
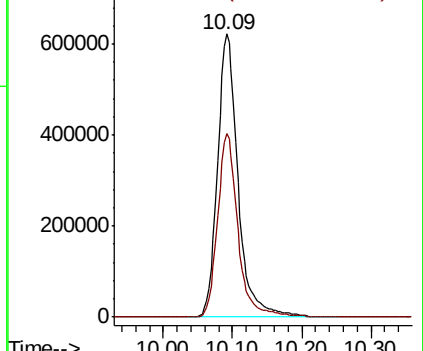
98 100

100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.590 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053847.D

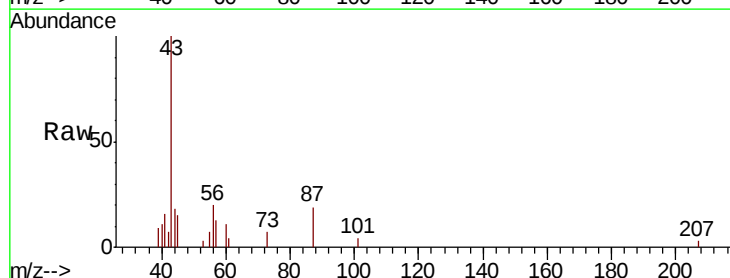
Acq: 18 Feb 2019 17:02

Tgt Ion: 43 Resp: 8170

Ion Ratio Lower Upper

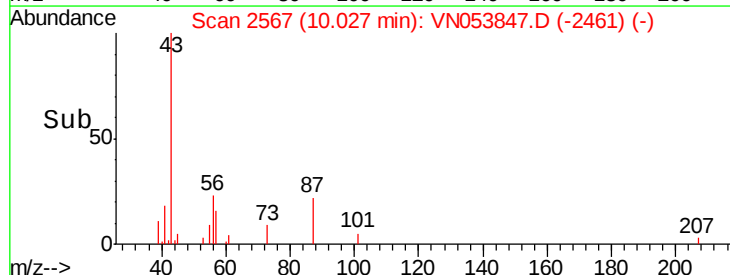
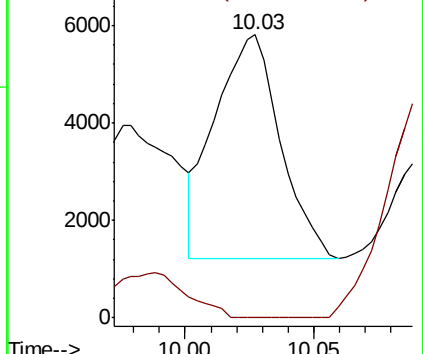
43 100

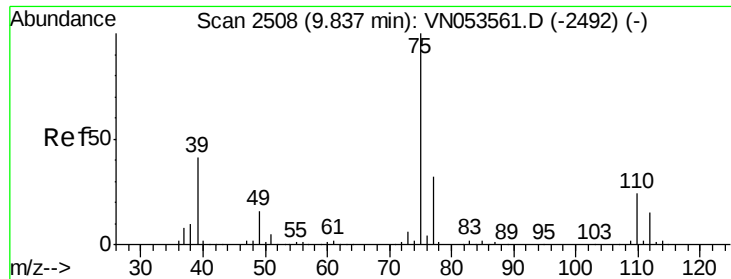
58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.682 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11

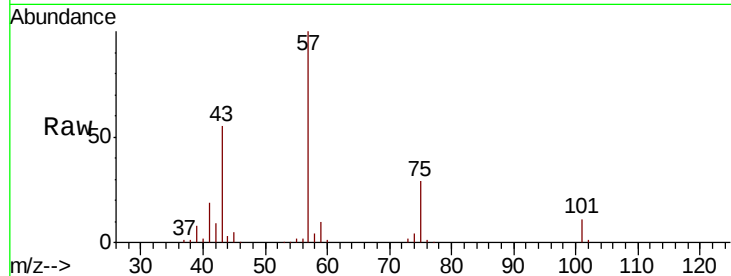
Tgt Ion: 75 Resp: 64605

Ion Ratio Lower Upper

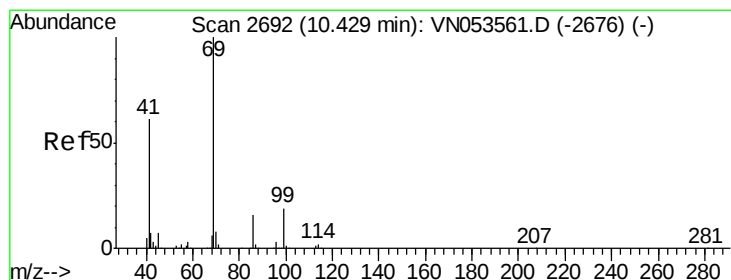
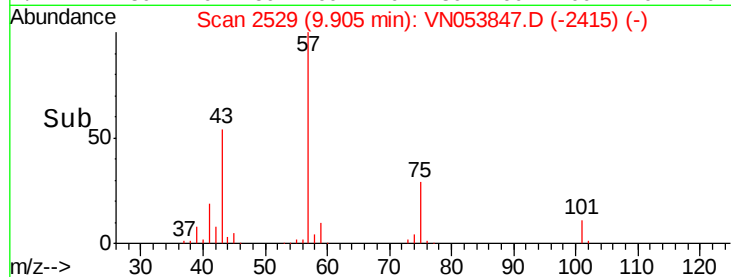
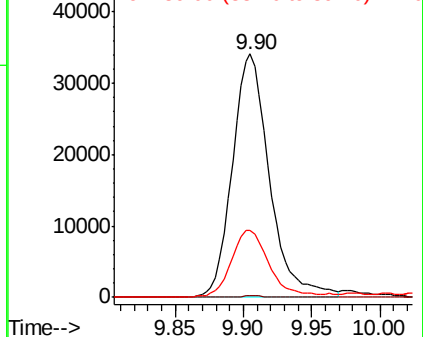
75 100

77 0.8 25.8 38.6#

39 27.8 33.4 50.0#



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



#56

Ethyl methacrylate

Concen: 0.224 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

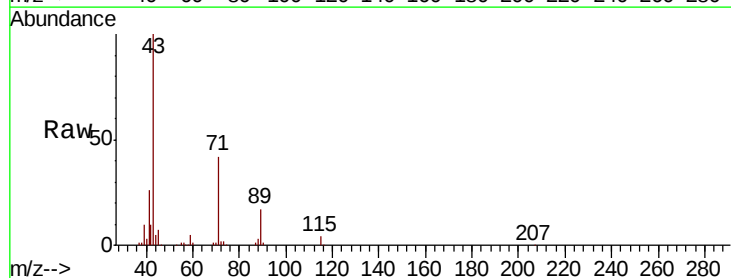
Tgt Ion: 69 Resp: 1691

Ion Ratio Lower Upper

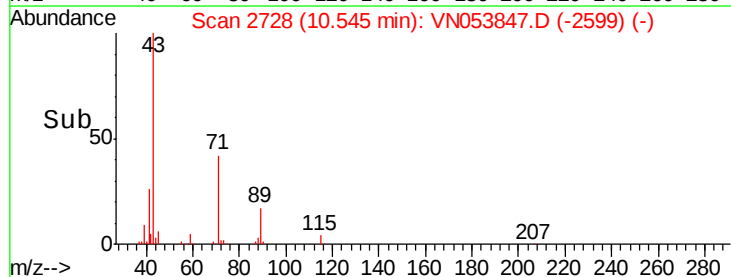
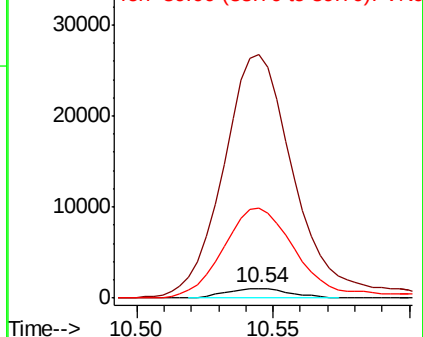
69 100

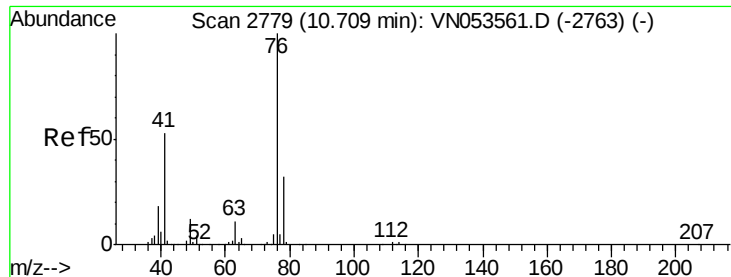
41 2890.2 49.4 74.0#

39 1113.2 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

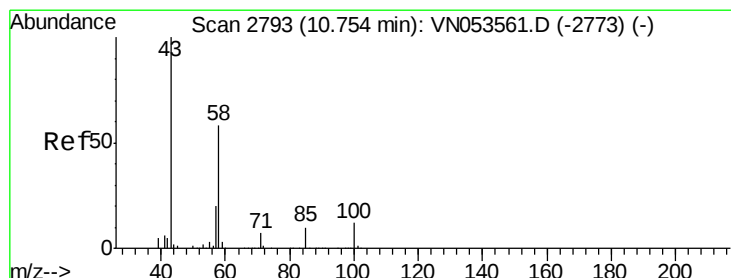
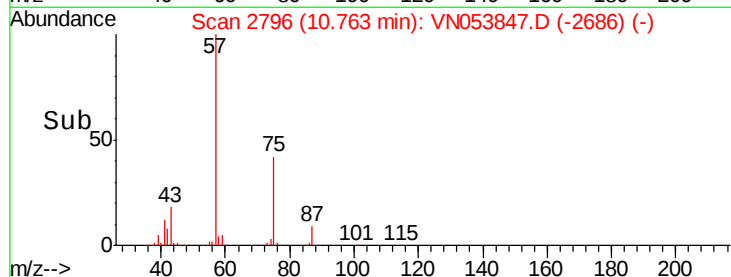
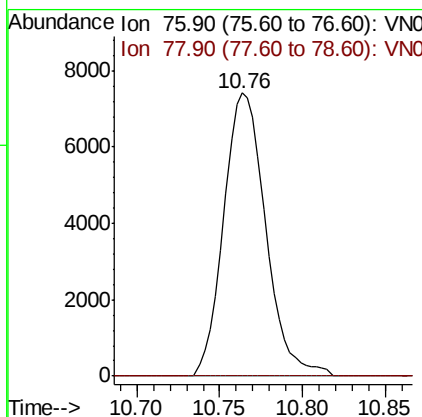
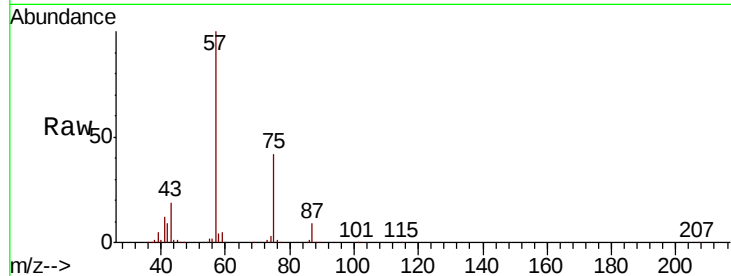




#57
 1,3-Dichloropropane
 Concen: 1.195 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053847.D
 Acq: 18 Feb 2019 17:02

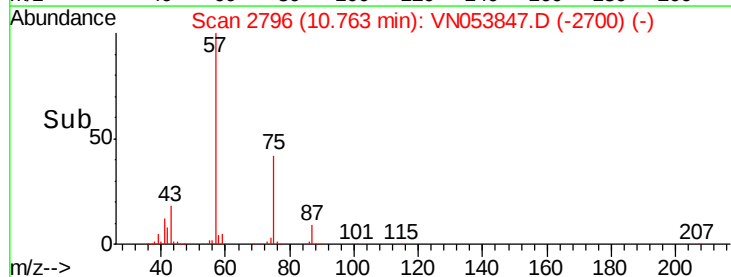
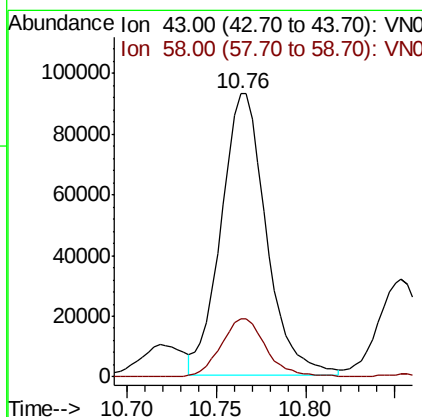
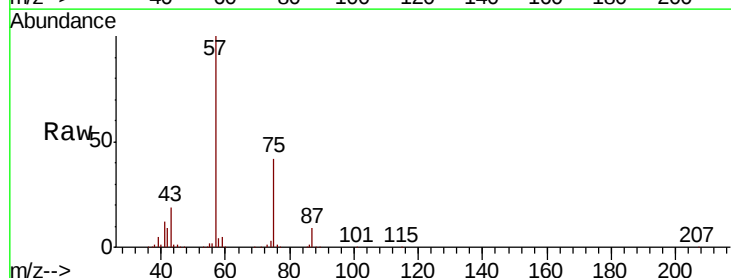
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#11

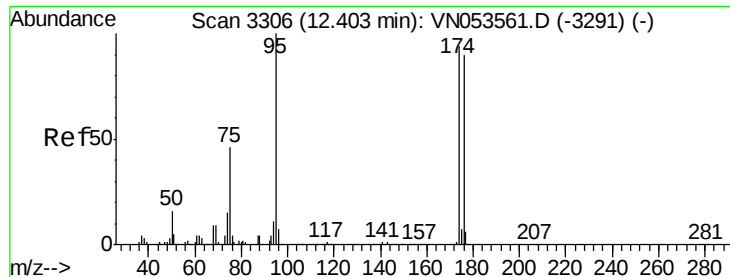
Tgt Ion: 76 Resp: 13058
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 46.952 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053847.D
 Acq: 18 Feb 2019 17:02

Tgt Ion: 43 Resp: 163747
 Ion Ratio Lower Upper
 43 100
 58 20.9 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 50.072 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11

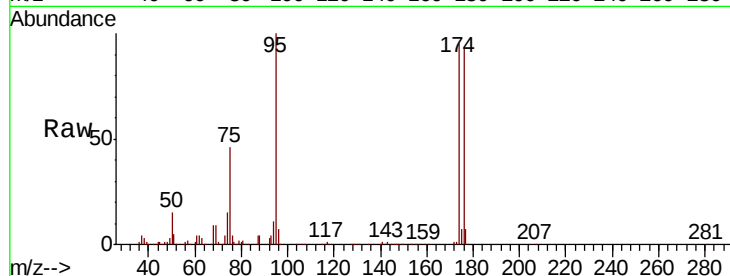
Tgt Ion: 95 Resp: 426021

Ion Ratio Lower Upper

95 100

174 95.1 0.0 183.2

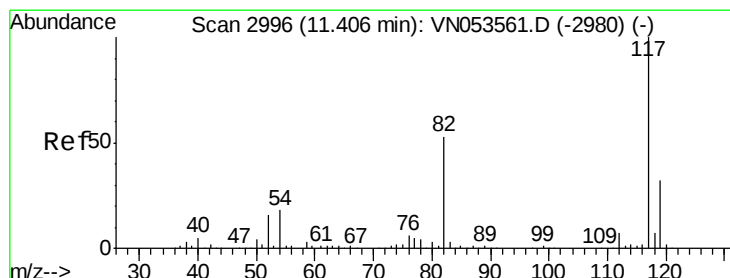
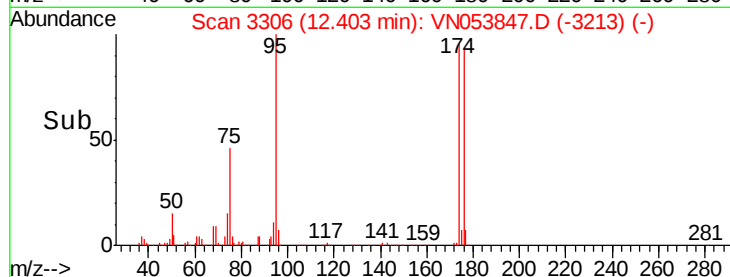
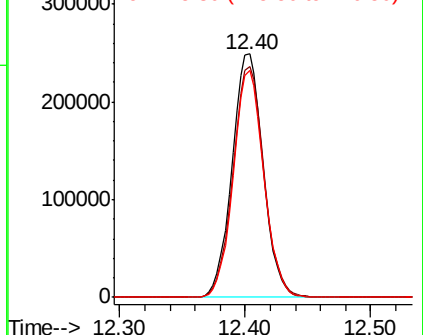
176 91.7 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

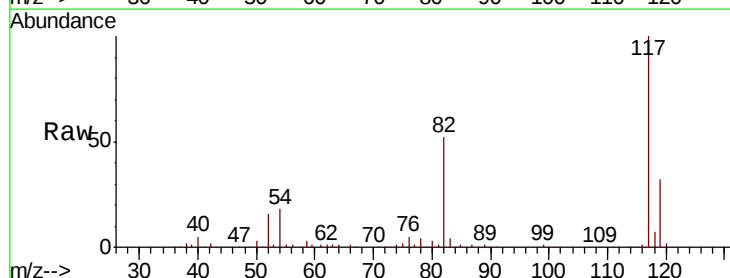
Tgt Ion: 117 Resp: 1024148

Ion Ratio Lower Upper

117 100

82 51.9 42.9 64.3

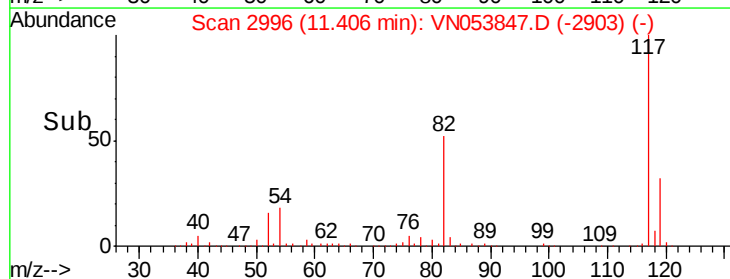
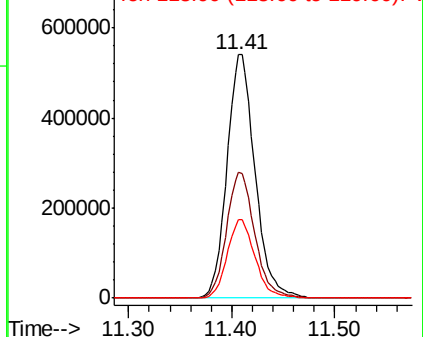
119 32.4 26.0 39.0

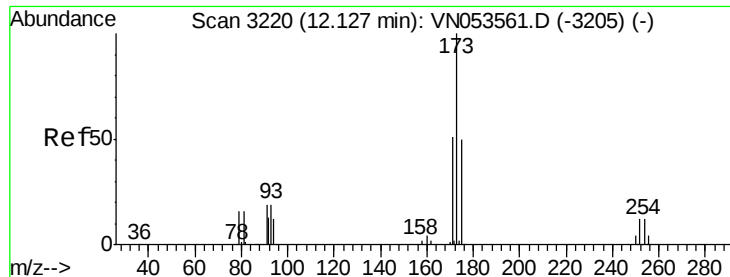


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.602 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11

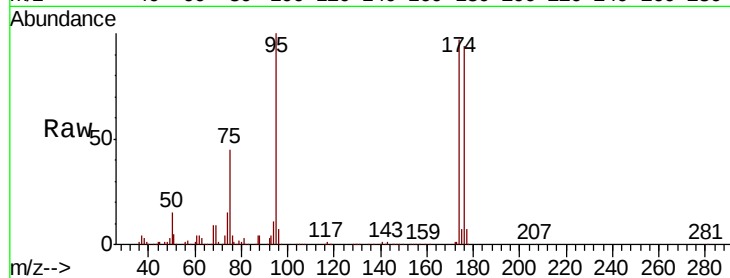
Tgt Ion:173 Resp: 3133

Ion Ratio Lower Upper

173 100

175 790.4 24.6 74.0#

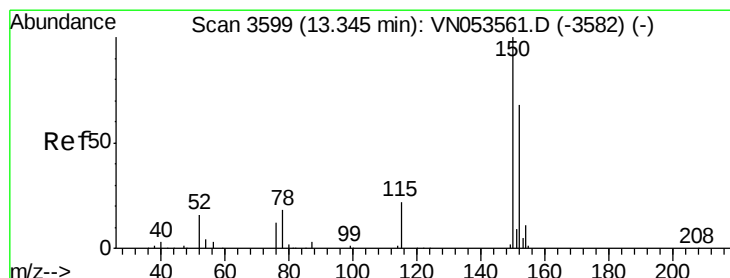
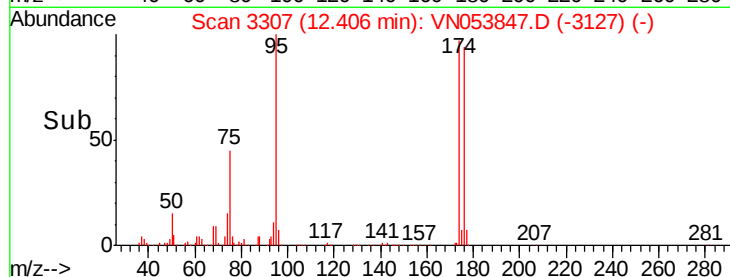
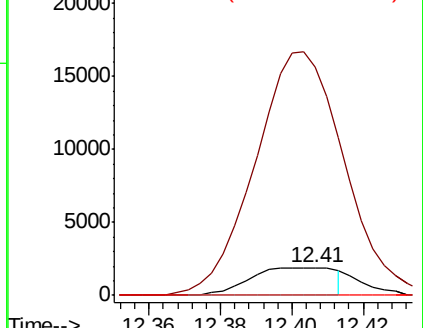
254 0.0 0.2 0.2#



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: VN053847.D

Acq: 18 Feb 2019 17:02

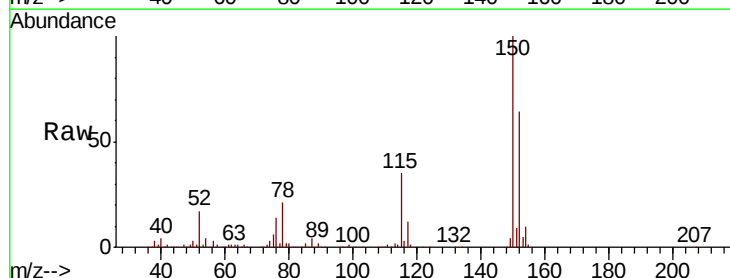
Tgt Ion:152 Resp: 379264

Ion Ratio Lower Upper

152 100

115 54.6 27.8 83.4

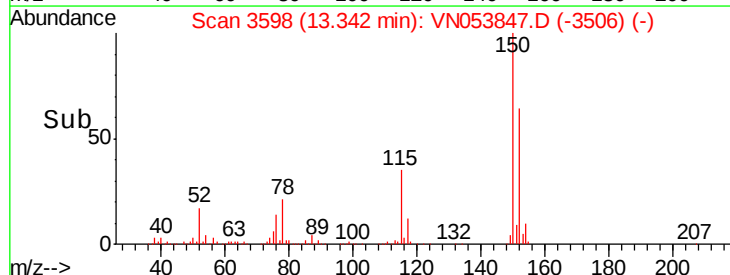
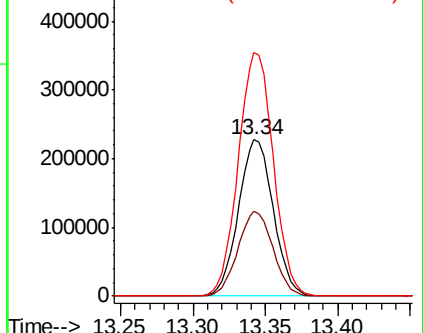
150 157.5 0.0 349.0

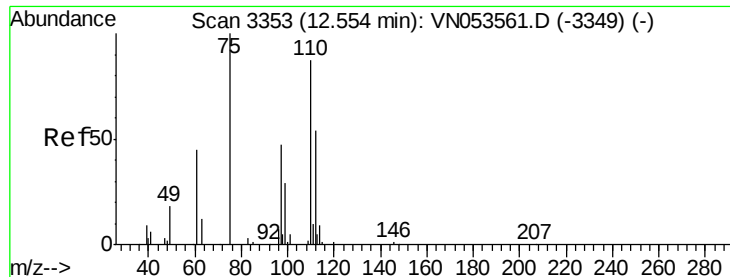


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053847.D

Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

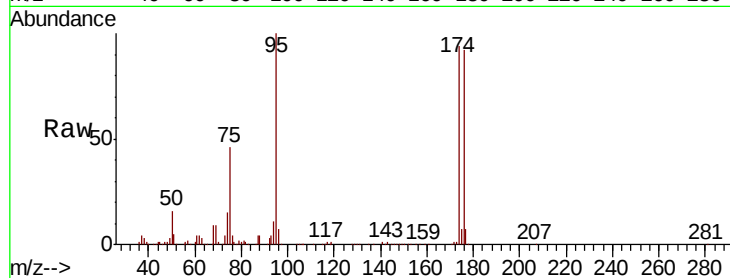
PB117159ZHE#11

Tgt Ion: 75 Resp: 194167

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

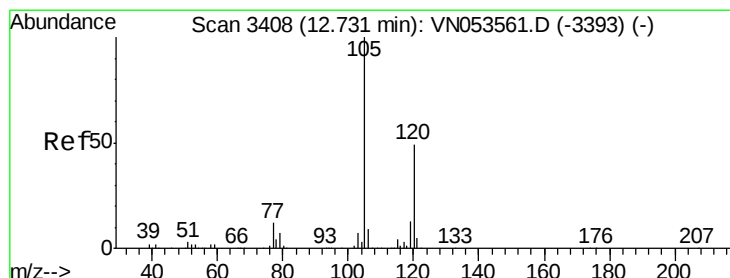
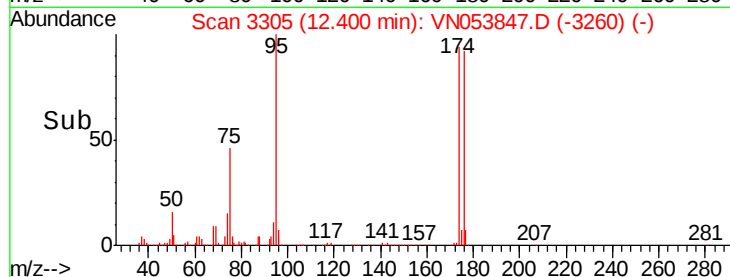
100000

50000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.263 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053847.D

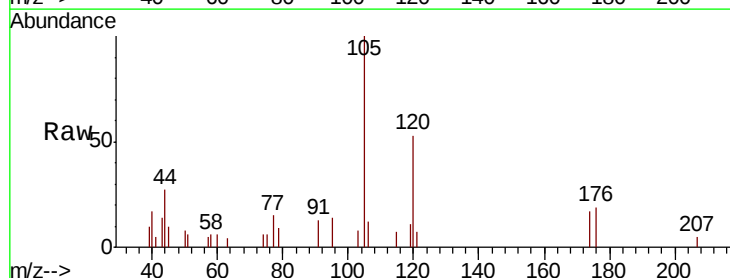
Acq: 18 Feb 2019 17:02

Tgt Ion: 105 Resp: 5824

Ion Ratio Lower Upper

105 100

120 51.2 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

4000

3000

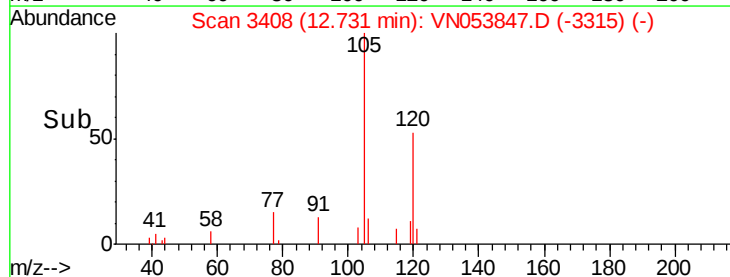
2000

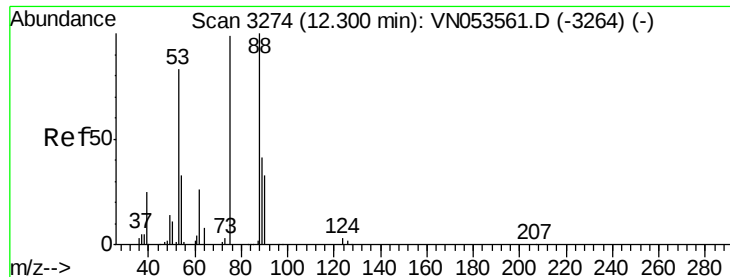
1000

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 112.079 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053847.D

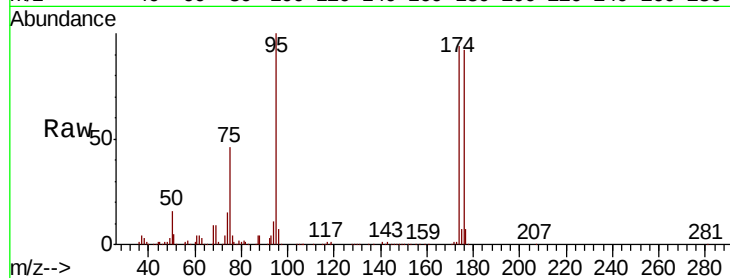
Acq: 18 Feb 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#11



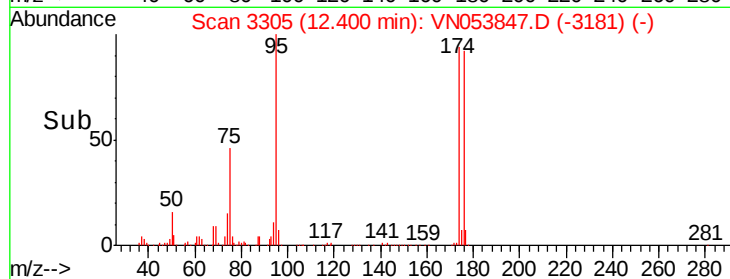
Tgt Ion: 75 Resp: 194167

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



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

