

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053846.D
 Acq On : 18 Feb 2019 16:35
 Operator : JC/SP
 Sample : PB117159ZHE#10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#10

Quant Time: Feb 19 03:02:33 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	668641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1158363	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1089050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411746	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	371462	55.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.76%	
35) Dibromofluoromethane	7.59	113	368663	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
50) Toluene-d8	10.09	98	1413104	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.40	95	456242	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	

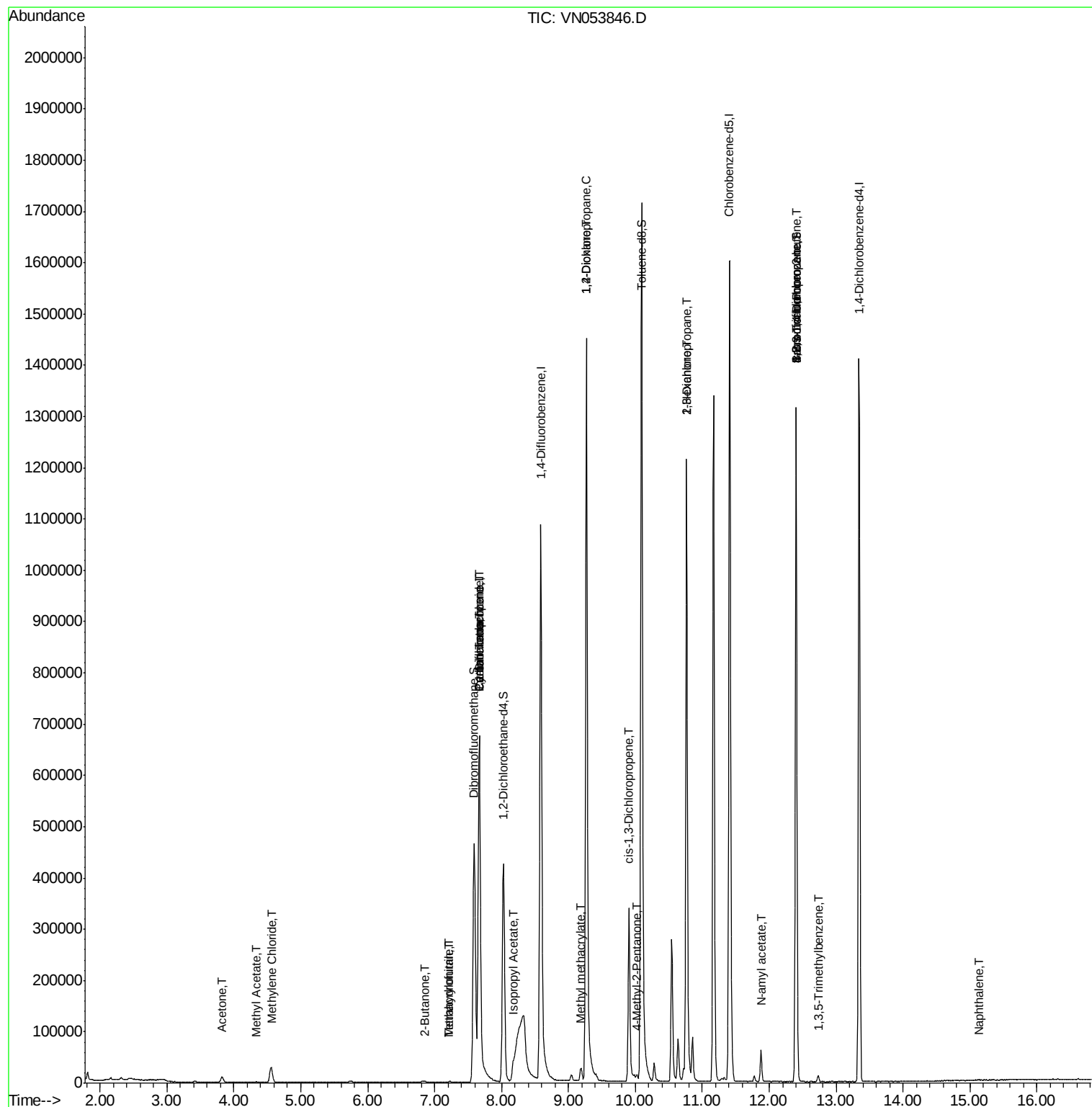
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	19695	11.447	ug/l	90
18) Methyl Acetate	4.33	43	3328	0.653	ug/l #	85
20) Methylene Chloride	4.55	84	22031	3.052	ug/l	97
25) 2-Butanone	6.85	43	4466	1.820	ug/l #	84
29) Tetrahydrofuran	7.21	42	2005	1.272	ug/l #	62
31) Cyclohexane	7.67	56	9890	0.705	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41064	3.933	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54343	5.166	ug/l #	16
41) Methacrylonitrile	7.22	41	872	0.268	ug/l #	22
43) Isopropyl Acetate	8.17	43	38250	3.396	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	1897	0.230	ug/l #	43
48) Methyl methacrylate	9.18	41	9924	1.846	ug/l #	12
49) 1,4-Dioxane	9.26	88	61	39.851	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9266	1.674	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72078	5.884	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	14026	1.192	ug/l #	43
59) 2-Hexanone	10.76	43	176261	46.913	ug/l #	51
71) Bromoform	12.40	173	2667	0.482	ug/l #	1
74) N-amyl acetate	11.88	43	18650	2.679	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	211330	39.959	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5876	0.245	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	211330	112.363	ug/l #	15
95) Naphthalene	15.14	128	30	1.738	ug/l #	69

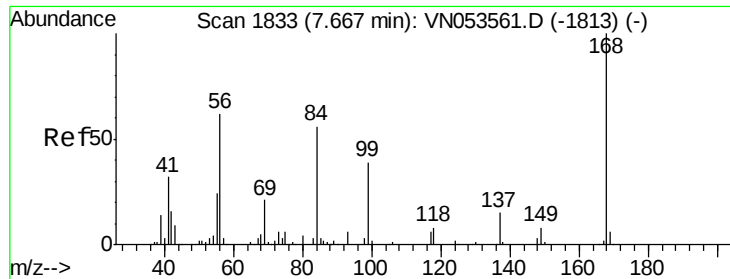
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
Data File : VN053846.D
Acq On : 18 Feb 2019 16:35
Operator : JC/SP
Sample : PB117159ZHE#10
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#10

Quant Time: Feb 19 03:02:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

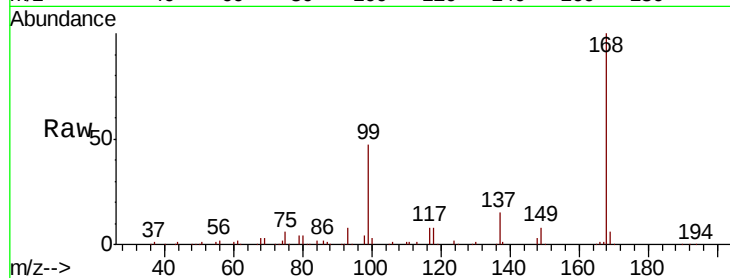
PB117159ZHE#10

Tgt Ion:168 Resp: 668641

Ion Ratio Lower Upper

168 100

99 47.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053561.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053561.D (-1813) (-)

7.67

250000

200000

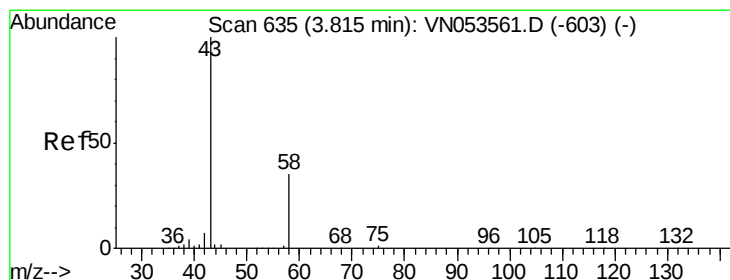
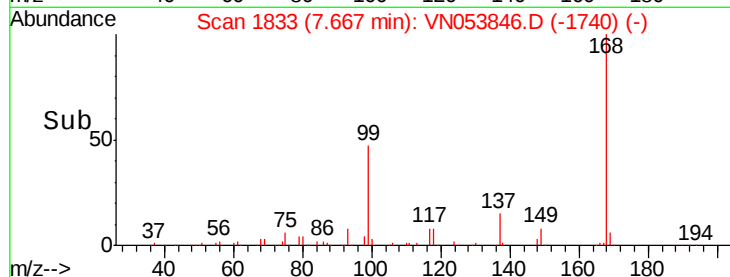
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 11.447 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053846.D

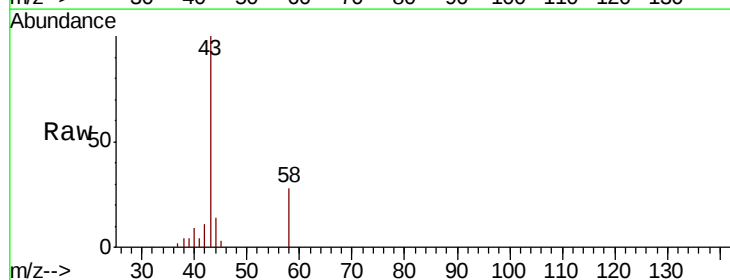
Acq: 18 Feb 2019 16:35

Tgt Ion: 43 Resp: 19695

Ion Ratio Lower Upper

43 100

58 28.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-603) (-)

3.82

8000

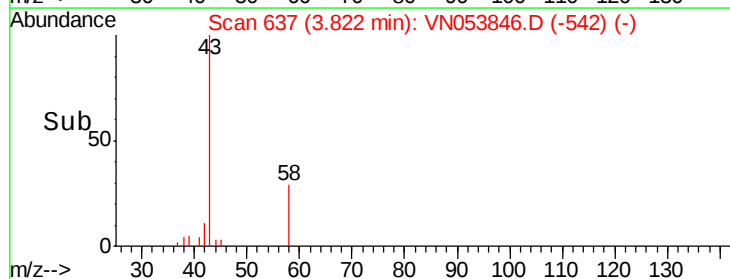
6000

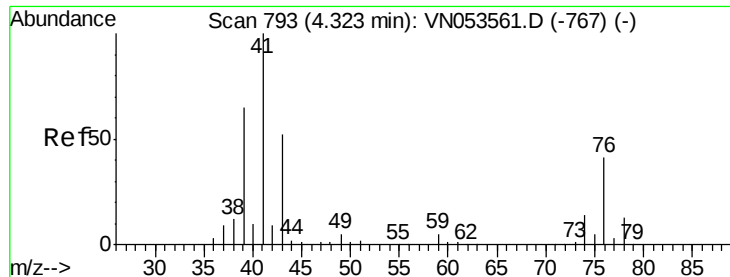
4000

2000

0

Time-->

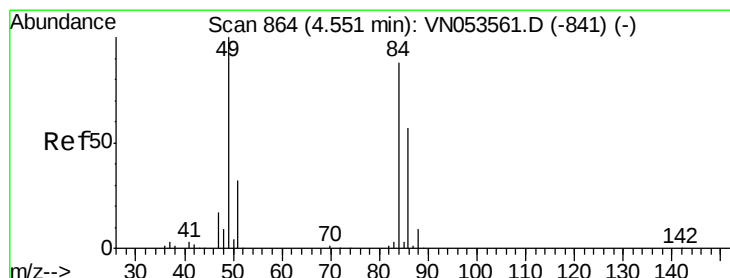
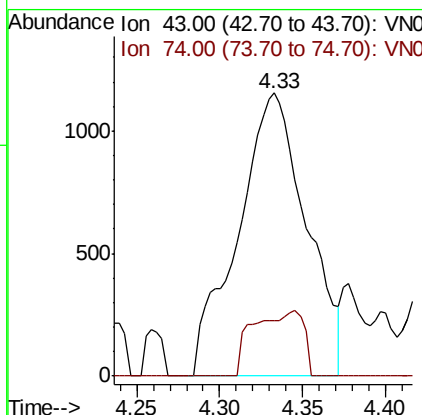
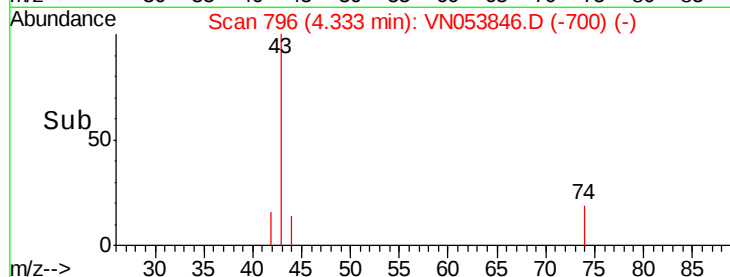
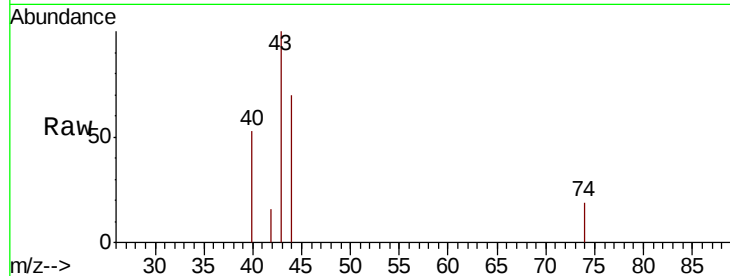




#18
Methyl Acetate
Concen: 0.653 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

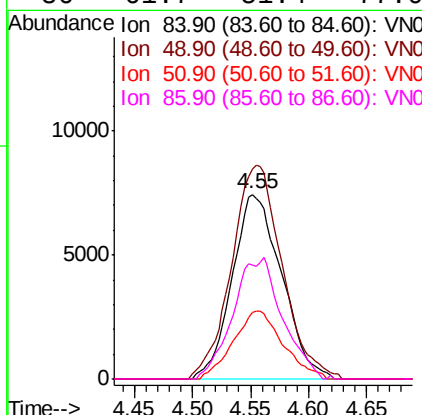
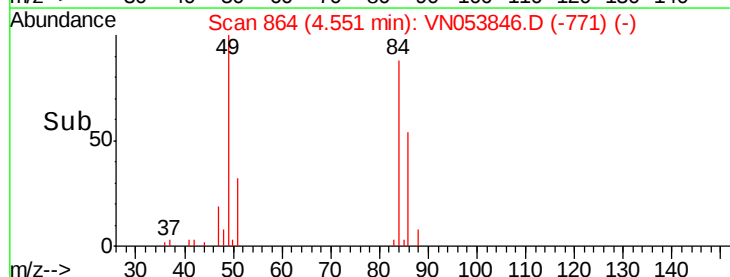
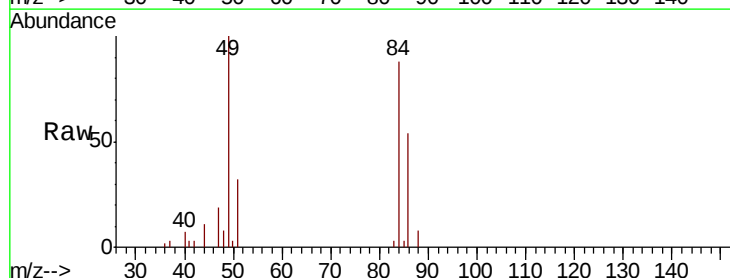
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#10

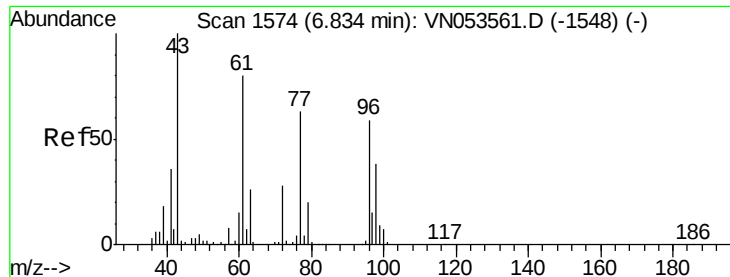
Tgt Ion: 43 Resp: 3328
Ion Ratio Lower Upper
43 100
74 16.9 19.4 29.2#



#20
Methylene Chloride
Concen: 3.052 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

Tgt Ion: 84 Resp: 22031
Ion Ratio Lower Upper
84 100
49 113.6 94.3 141.5
51 36.0 29.4 44.2
86 61.7 51.4 77.0

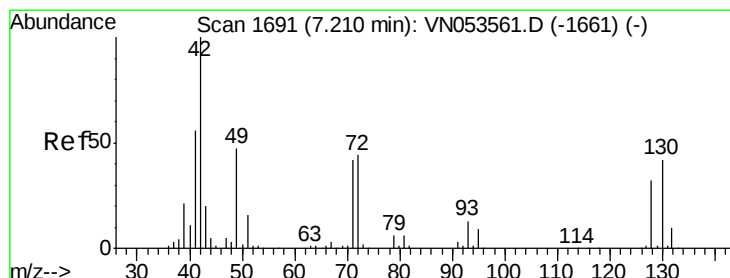
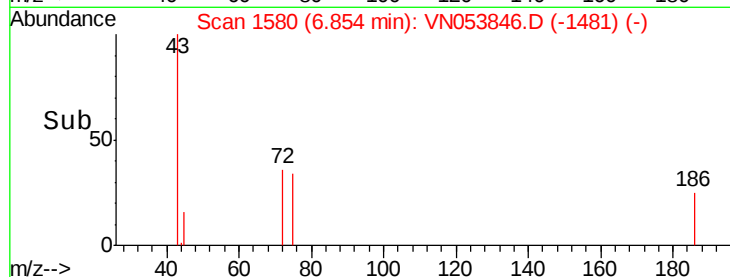
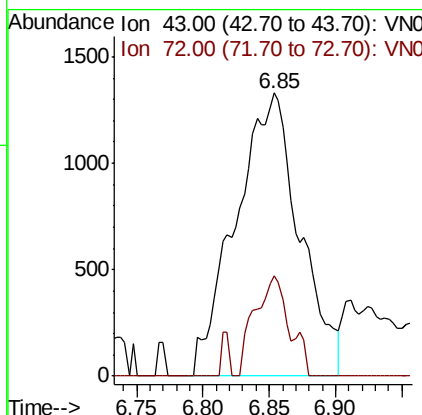
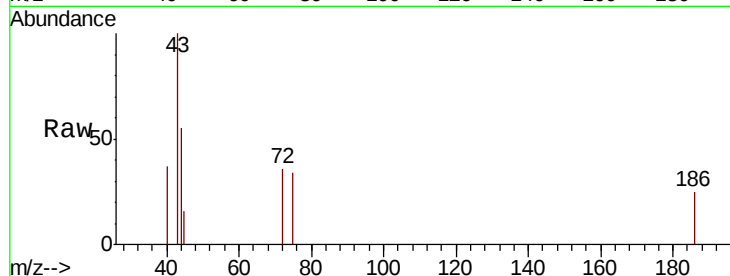




#25
2-Butanone
Concen: 1.820 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

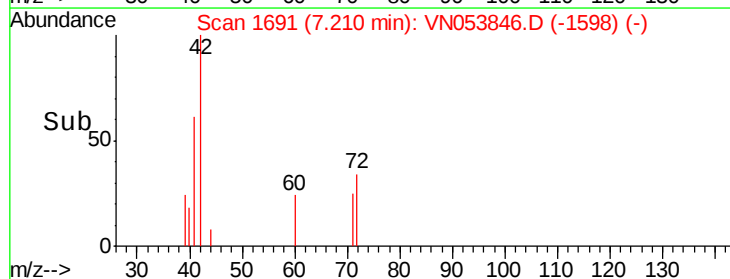
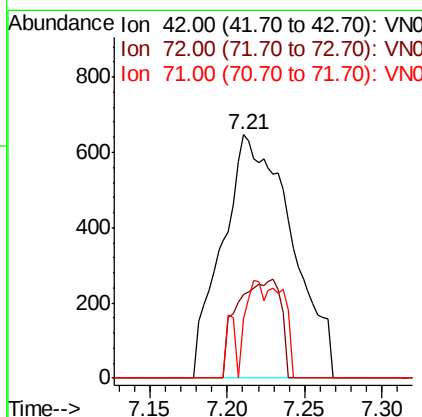
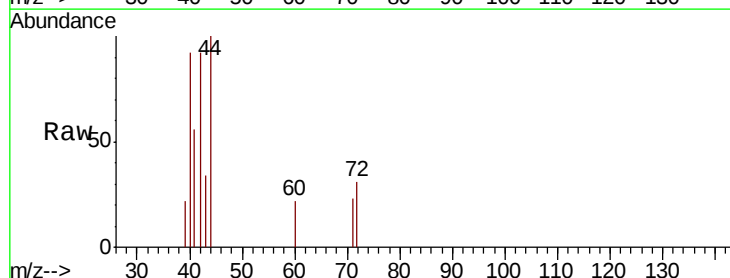
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#10

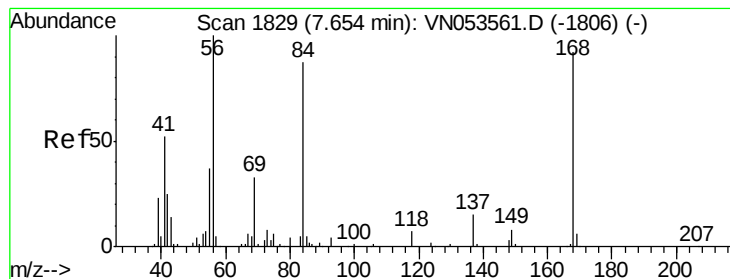
Tgt Ion: 43 Resp: 4466
Ion Ratio Lower Upper
43 100
72 35.6 22.0 33.0#



#29
Tetrahydrofuran
Concen: 1.272 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

Tgt Ion: 42 Resp: 2005
Ion Ratio Lower Upper
42 100
72 25.5 35.2 52.8#
71 10.5 33.0 49.4#





#31

Cyclohexane

Concen: 0.705 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

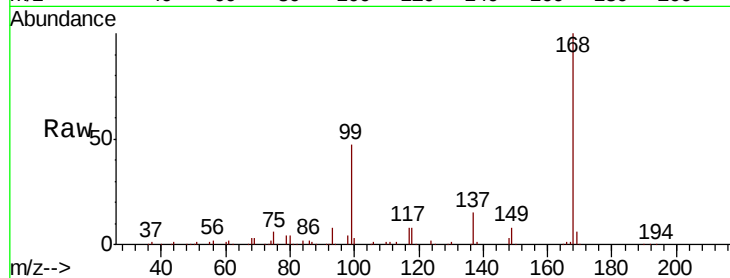
Tgt Ion: 56 Resp: 9890

Ion Ratio Lower Upper

56 100

69 187.7 26.4 39.6#

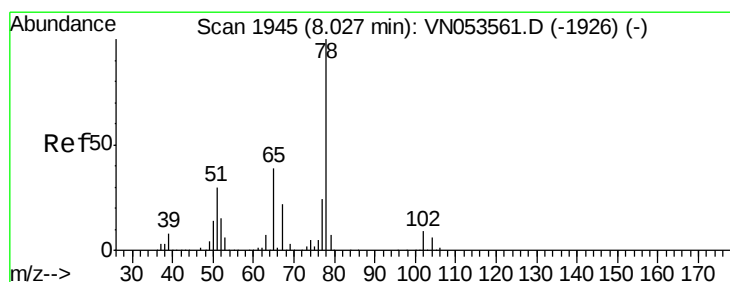
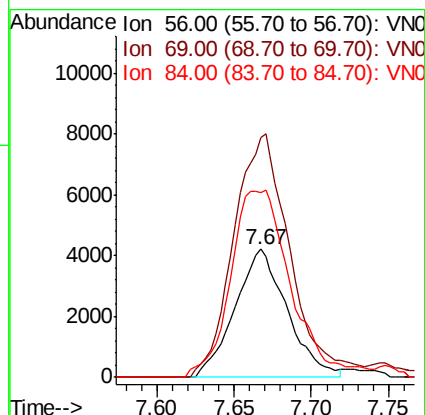
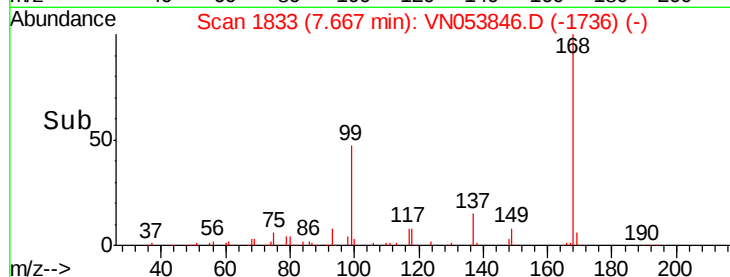
84 138.8 67.9 101.9#



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: 55.378 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053846.D

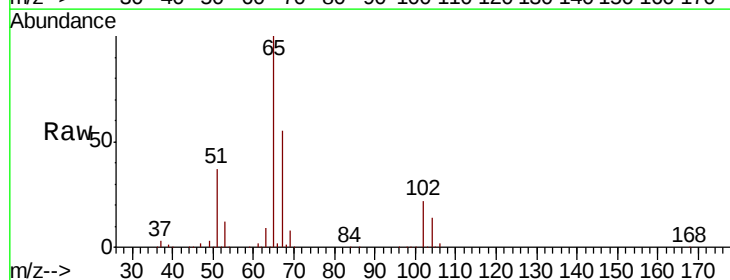
Acq: 18 Feb 2019 16:35

Tgt Ion: 65 Resp: 371462

Ion Ratio Lower Upper

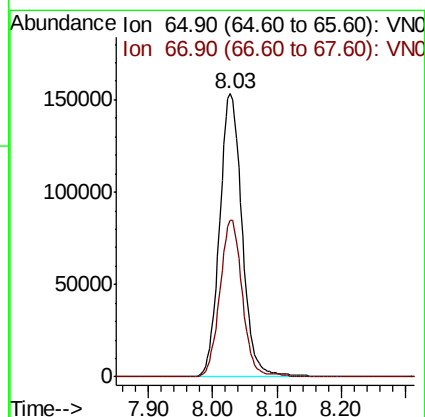
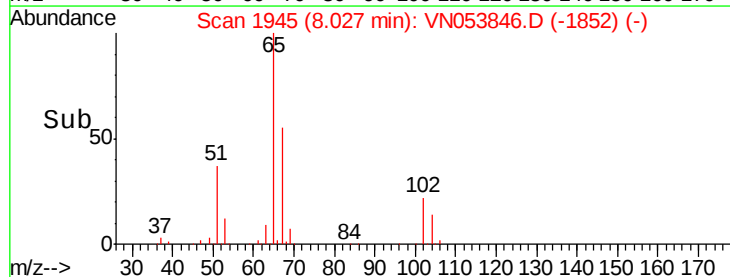
65 100

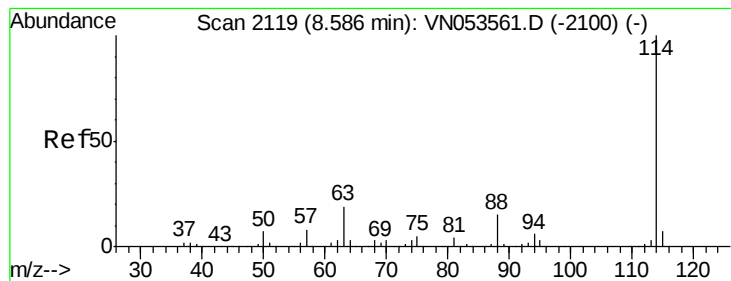
67 54.5 0.0 111.2



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: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

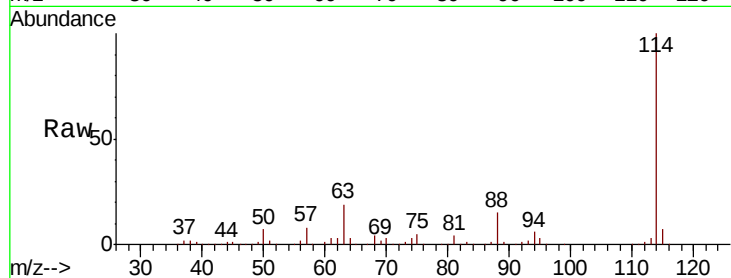
Tgt Ion:114 Resp: 1158363

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

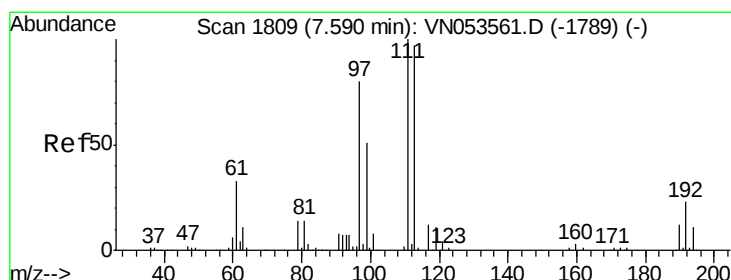
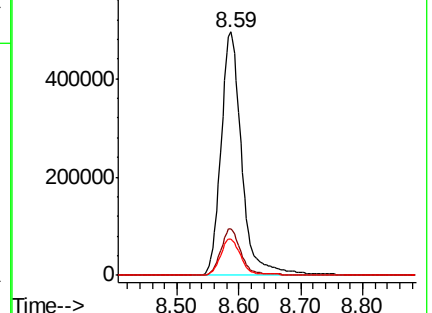
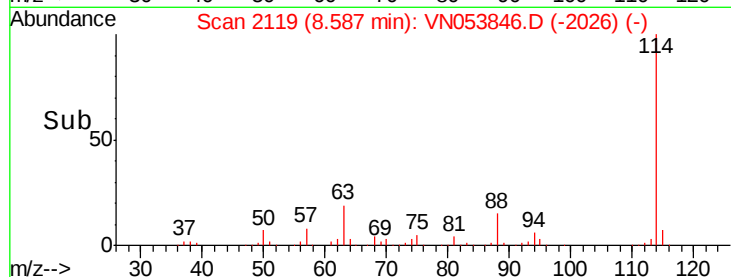
88 14.9 0.0 30.4



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: 50.368 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

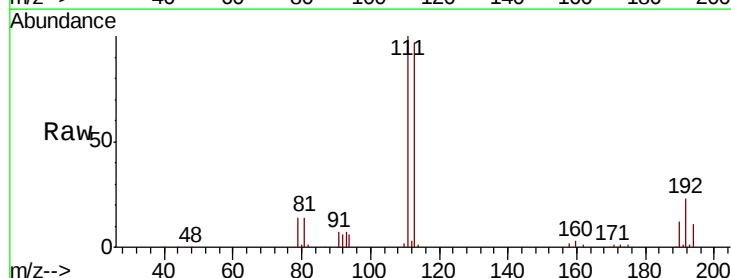
Tgt Ion:113 Resp: 368663

Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

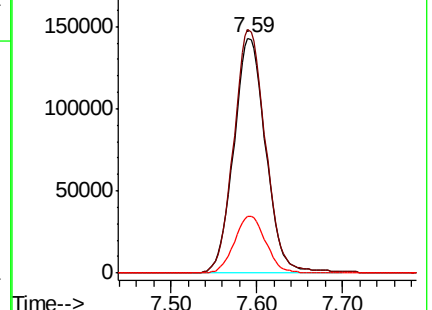
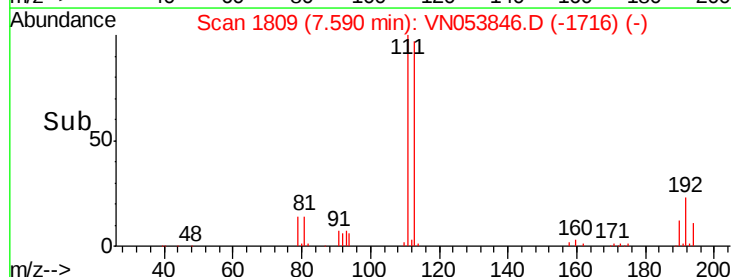
192 24.0 18.2 27.2

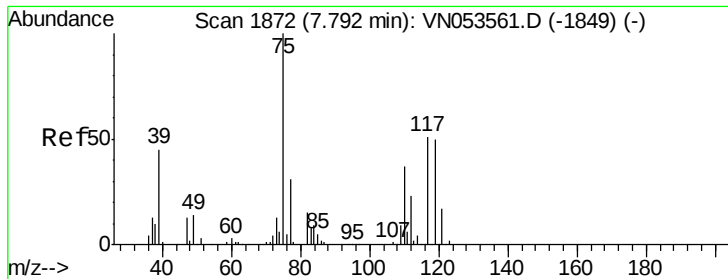


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.933 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

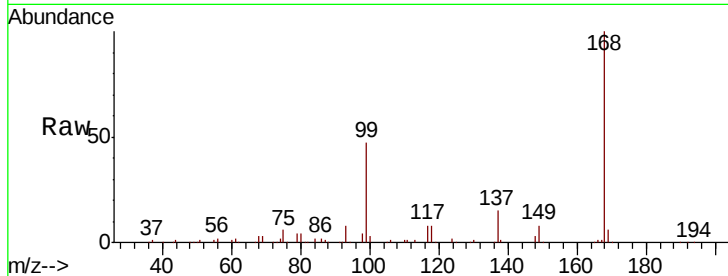
Tgt Ion: 75 Resp: 41064

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

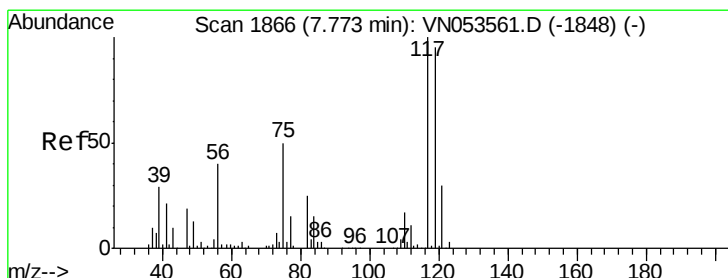
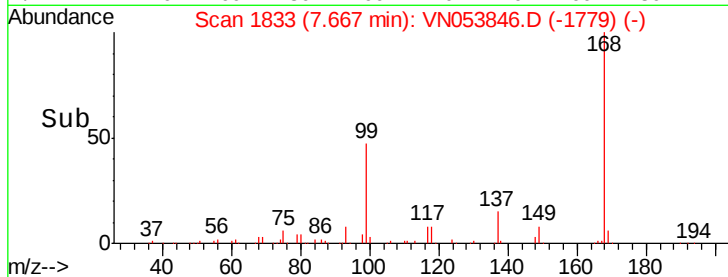
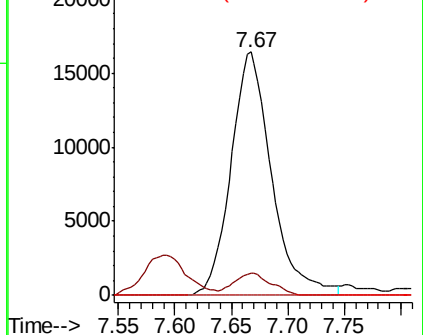
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053846.D (-1773) (-)

Ion 109.90 (109.60 to 110.60): VN053846.D (-1773) (-)

Ion 76.90 (76.60 to 77.60): VN053846.D (-1773) (-)



#38

Carbon Tetrachloride

Concen: 5.166 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

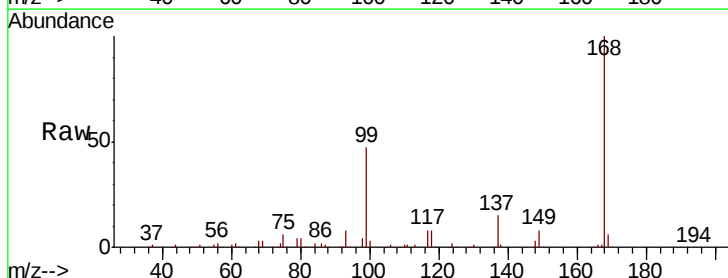
Tgt Ion: 117 Resp: 54343

Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

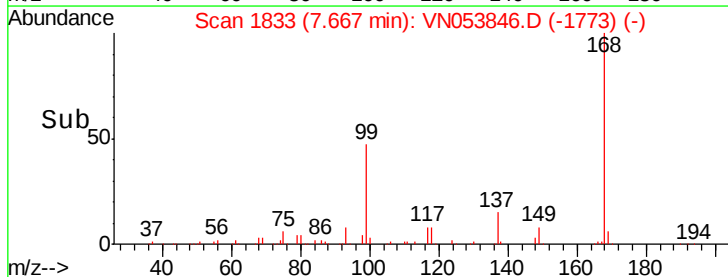
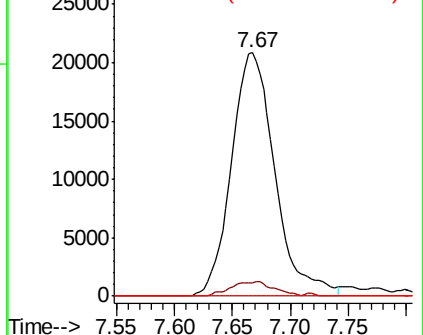
121 0.0 24.6 37.0#

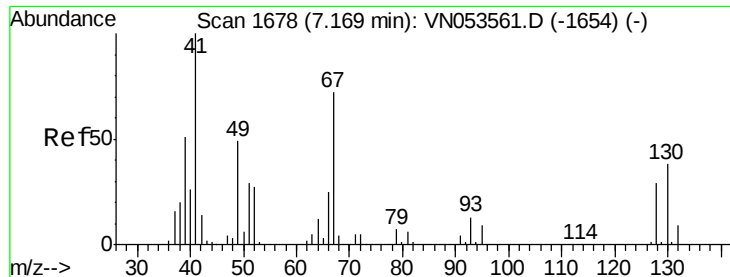


Abundance Ion 116.80 (116.50 to 117.50): VN053846.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053846.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053846.D (-1773) (-)

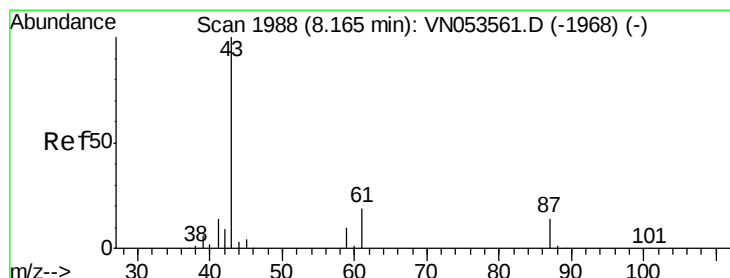
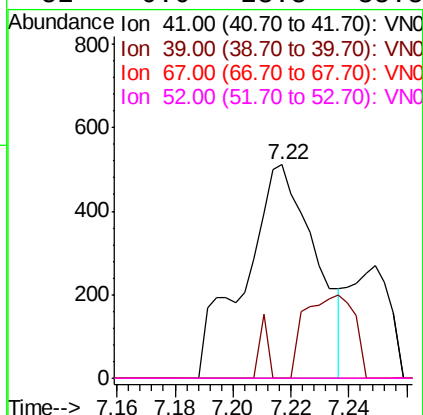
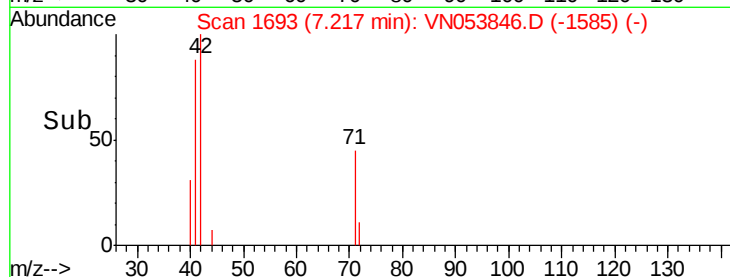
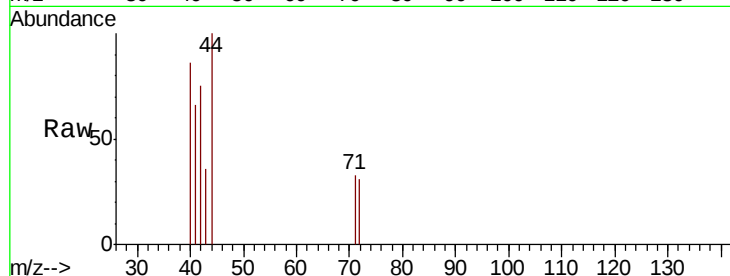




#41
Methacrylonitrile
Concen: 0.268 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

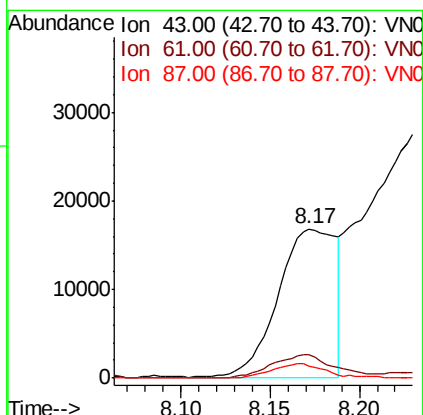
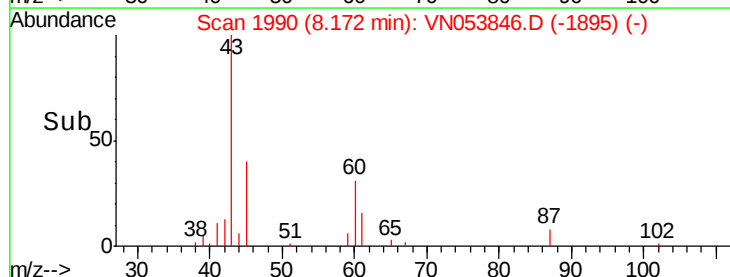
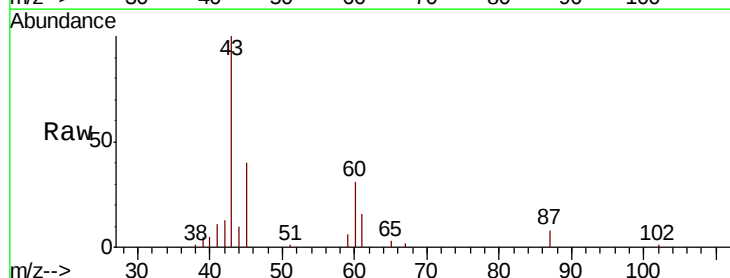
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#10

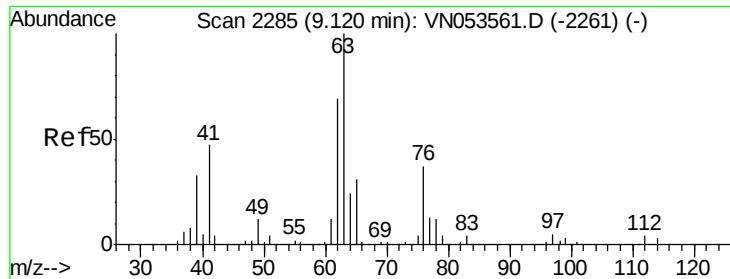
Tgt Ion: 41 Resp: 872
Ion Ratio Lower Upper
41 100
39 3.3 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.396 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN053846.D
Acq: 18 Feb 2019 16:35

Tgt Ion: 43 Resp: 38250
Ion Ratio Lower Upper
43 100
61 16.9 23.9 35.9#
87 8.8 11.0 16.6#





#45

1,2-Dichloropropane

Concen: 0.230 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

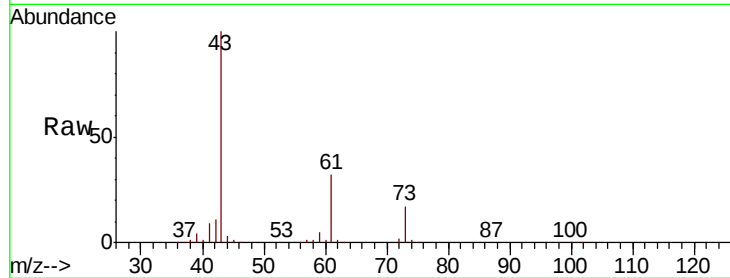
PB117159ZHE#10

Tgt Ion: 63 Resp: 1897

Ion Ratio Lower Upper

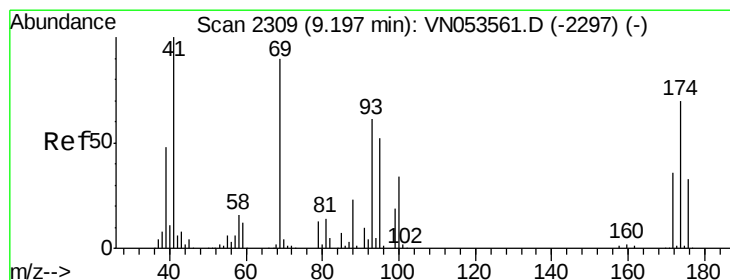
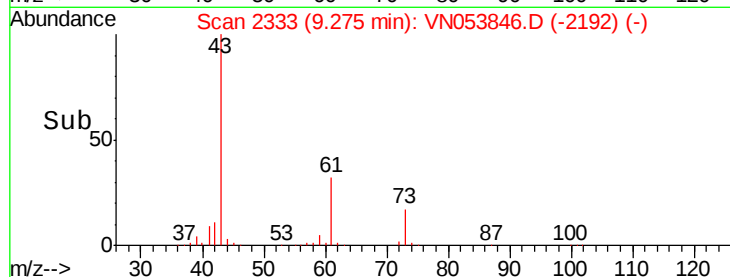
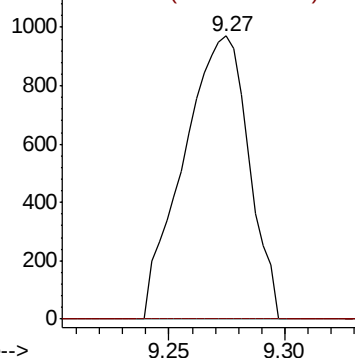
63 100

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: 1.846 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

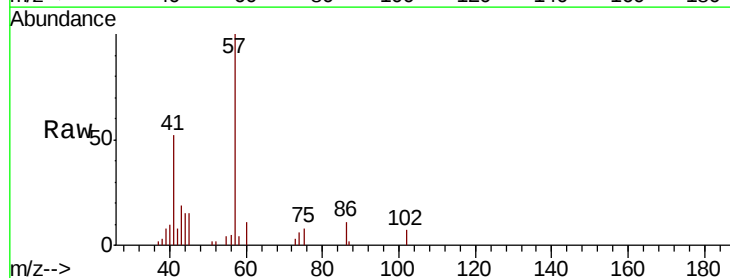
Tgt Ion: 41 Resp: 9924

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

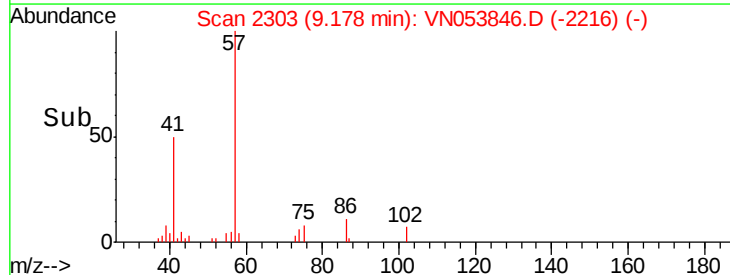
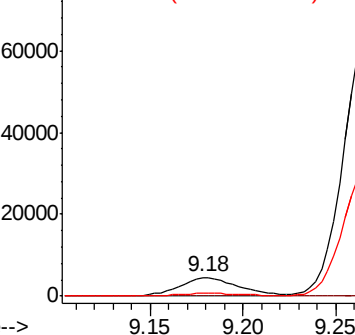
39 0.0 40.0 60.0#

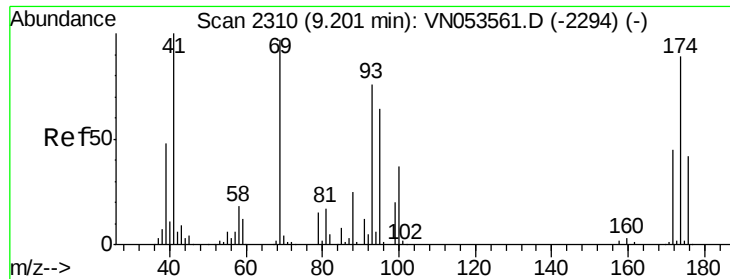


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 39.851 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

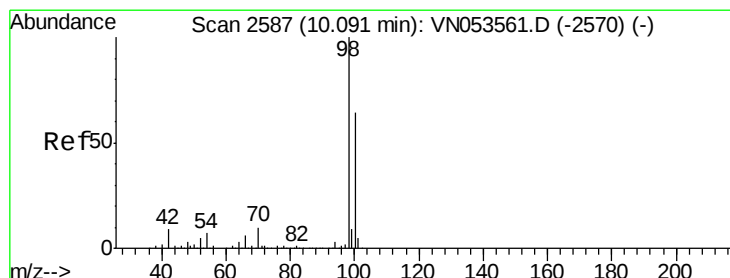
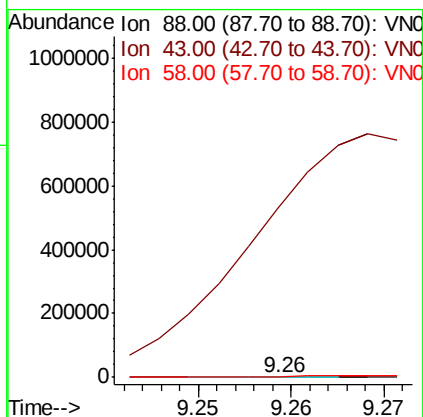
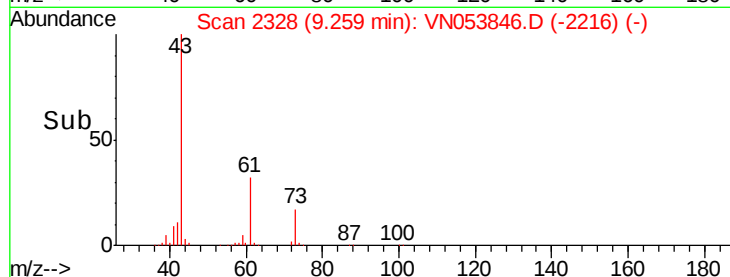
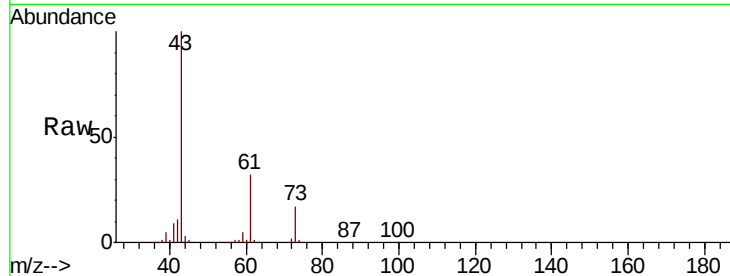
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 2528182.0 27.8 41.6#

58 13345.9 56.5 84.7#



#50

Toluene-d8

Concen: 51.418 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053846.D

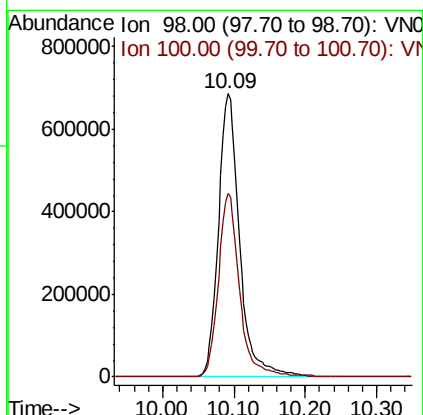
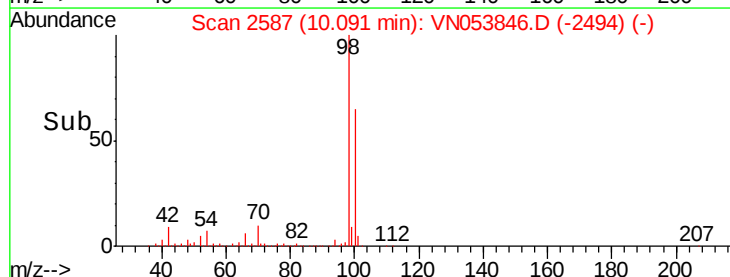
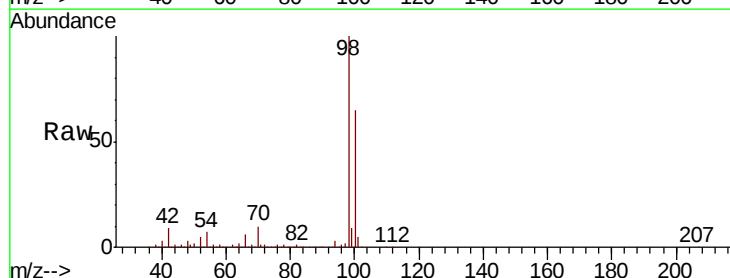
Acq: 18 Feb 2019 16:35

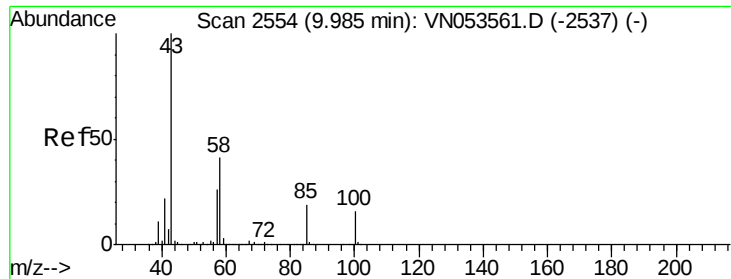
Tgt Ion: 98 Resp: 1413104

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0

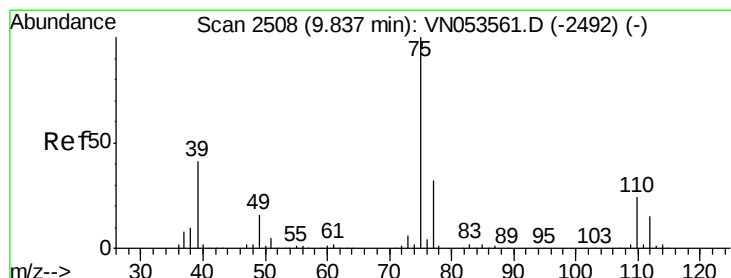
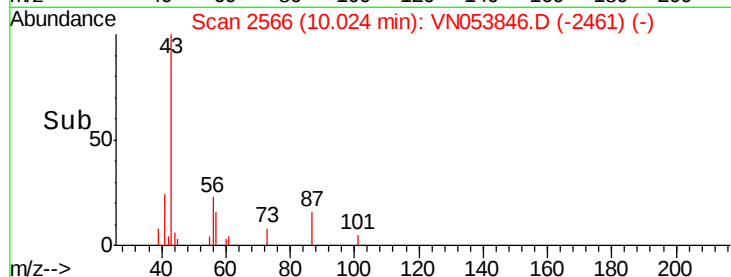
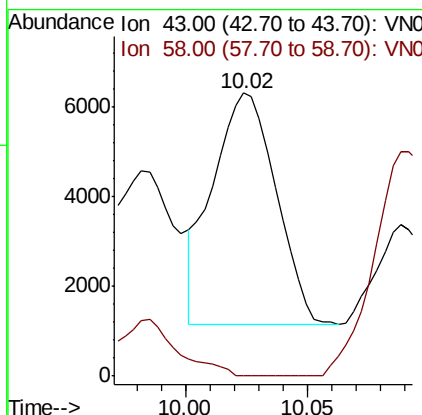
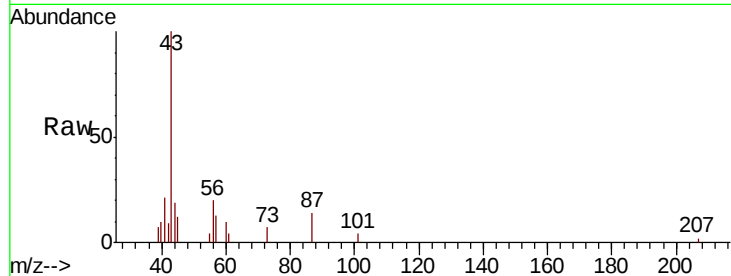




#51
 4-Methyl-2-Pentanone
 Concen: 1.674 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

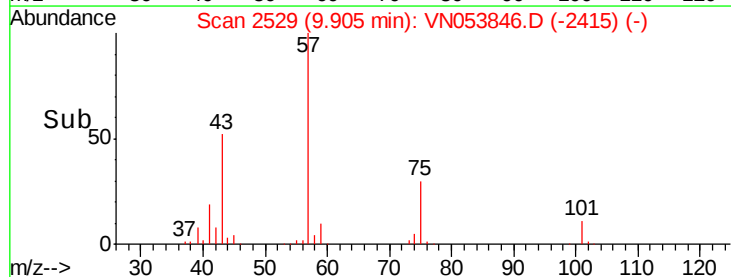
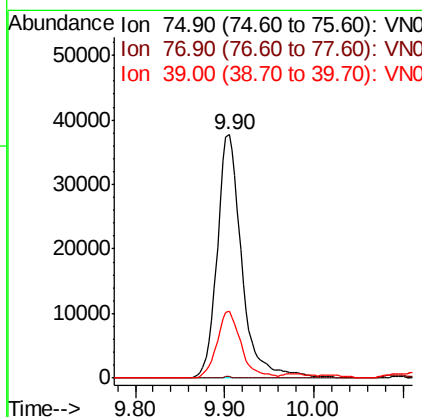
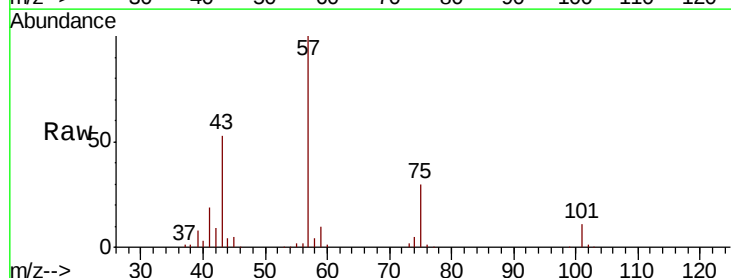
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#10

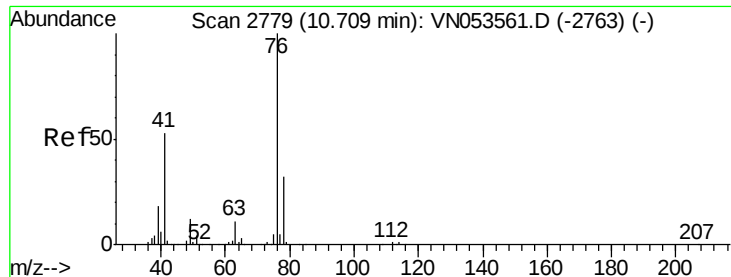
Tgt Ion: 43 Resp: 9266
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.884 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

Tgt Ion: 75 Resp: 72078
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 27.4 33.4 50.0#

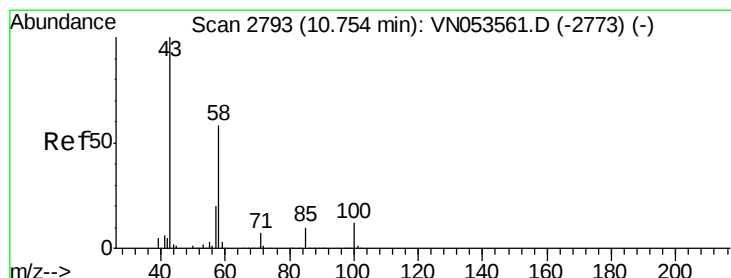
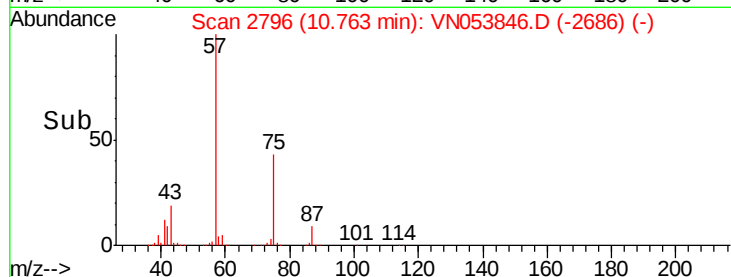
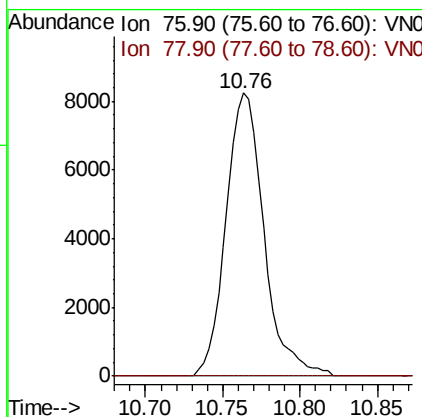
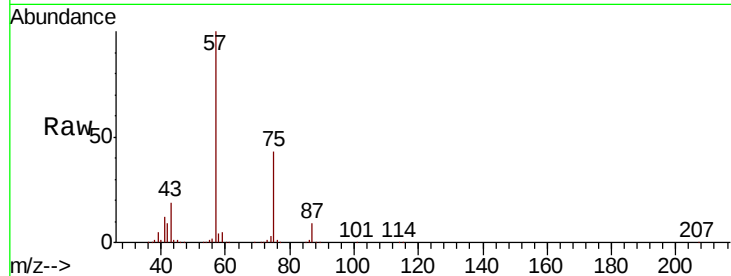




#57
 1,3-Dichloropropane
 Concen: 1.192 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

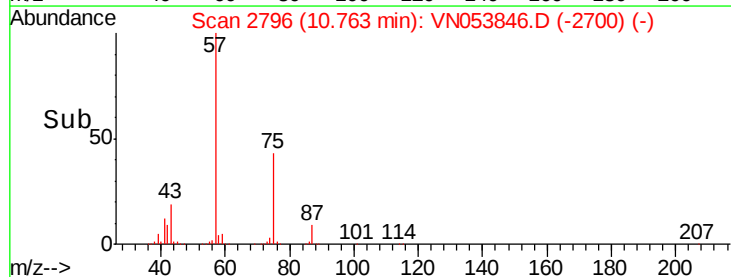
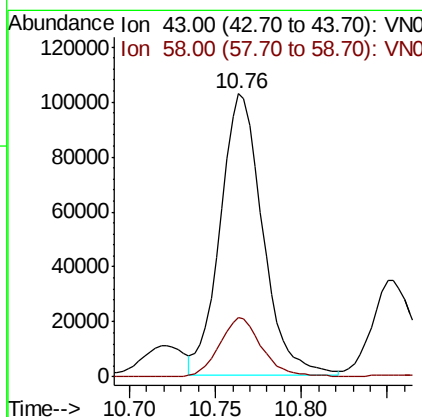
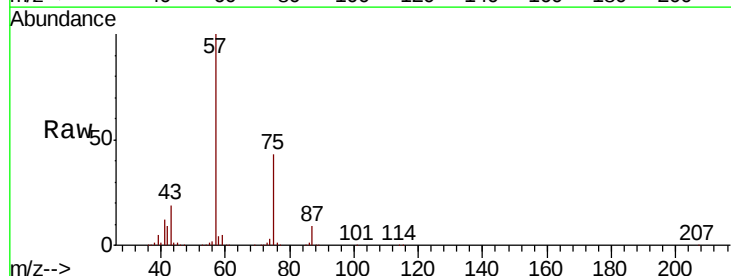
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#10

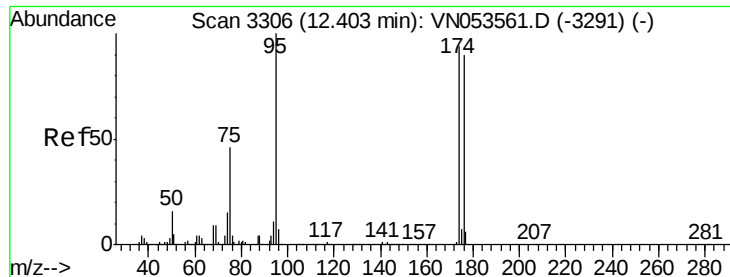
Tgt Ion: 76 Resp: 14026
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 46.913 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

Tgt Ion: 43 Resp: 176261
 Ion Ratio Lower Upper
 43 100
 58 21.1 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 49.776 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

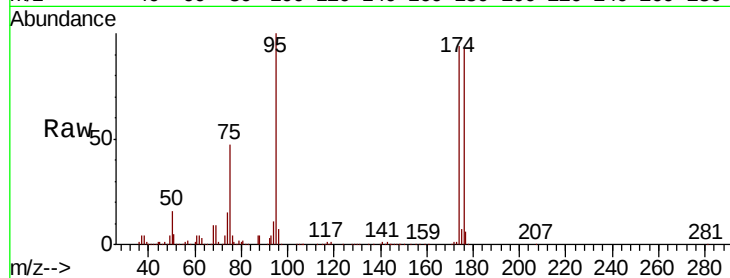
Tgt Ion: 95 Resp: 456242

Ion Ratio Lower Upper

95 100

174 94.7 0.0 183.2

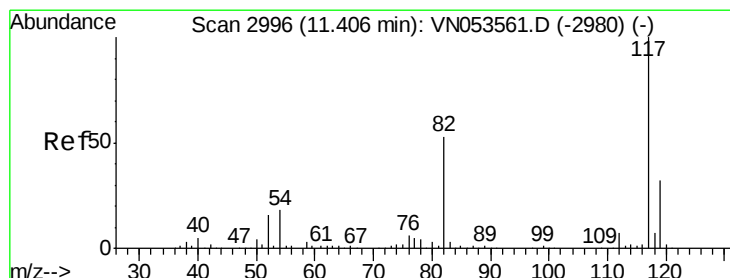
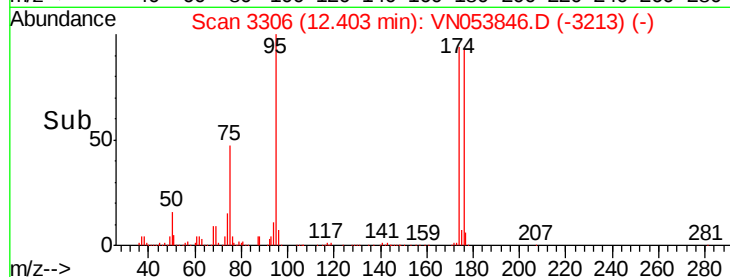
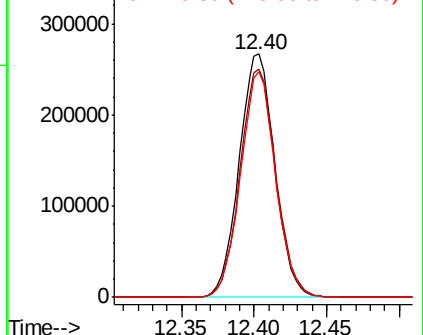
176 90.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

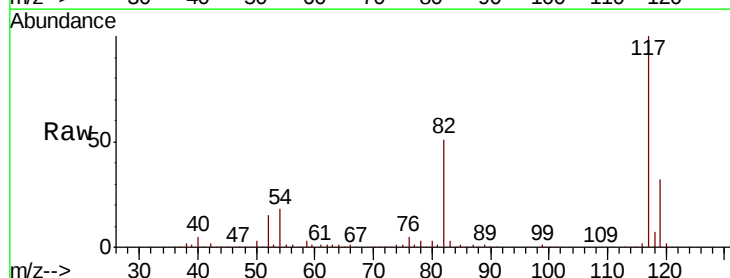
Tgt Ion: 117 Resp: 1089050

Ion Ratio Lower Upper

117 100

82 51.0 42.9 64.3

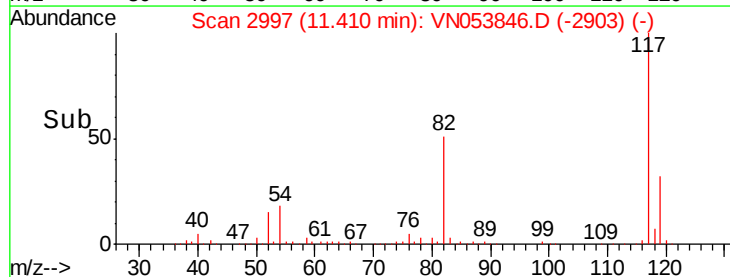
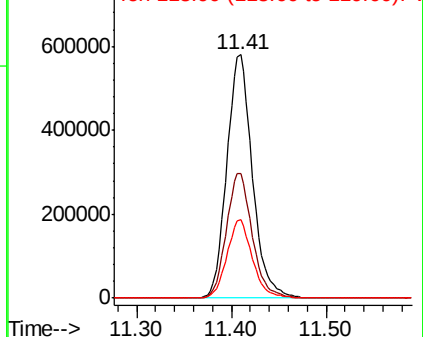
119 32.0 26.0 39.0

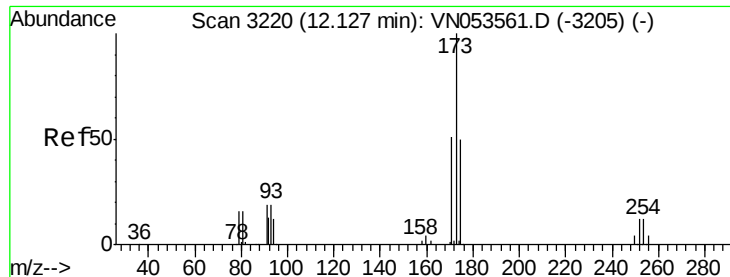


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.482 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

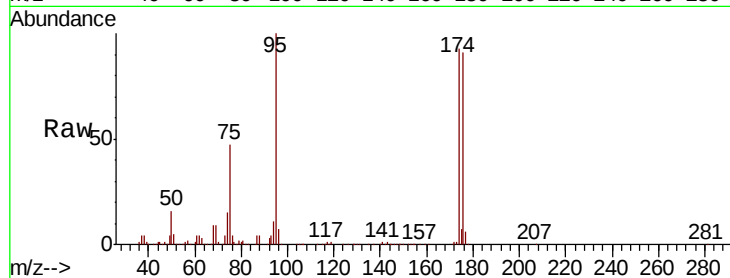
Tgt Ion:173 Resp: 2667

Ion Ratio Lower Upper

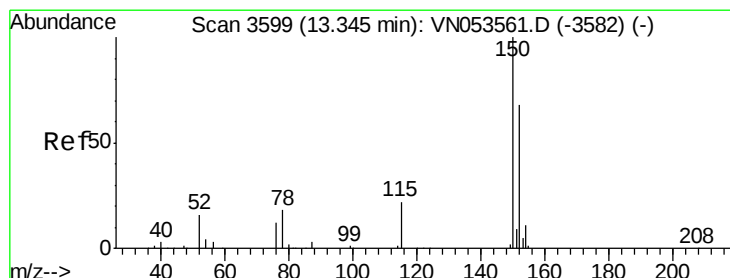
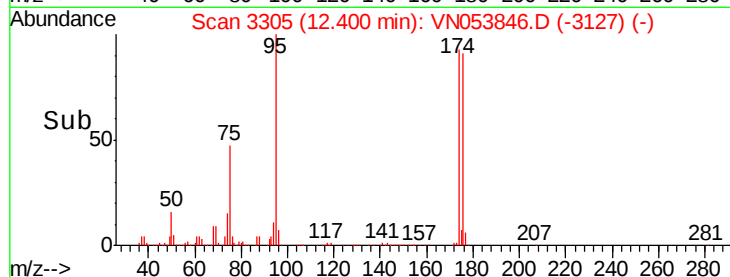
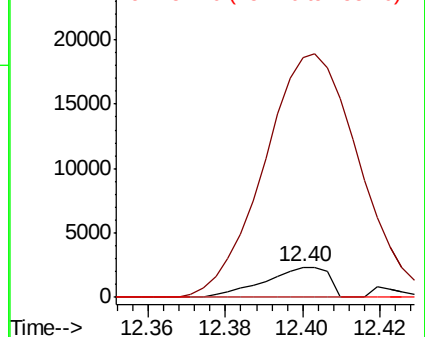
173 100

175 1034.4 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

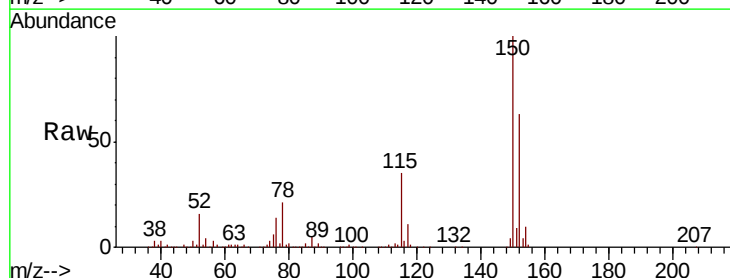
Tgt Ion:152 Resp: 411746

Ion Ratio Lower Upper

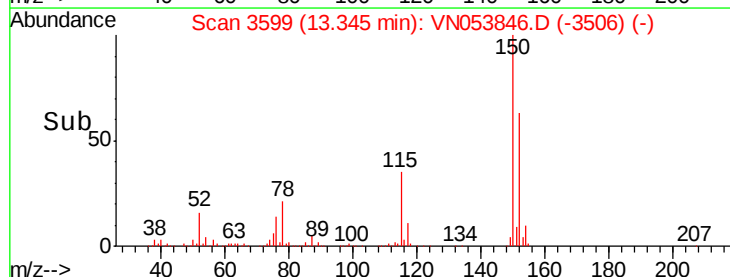
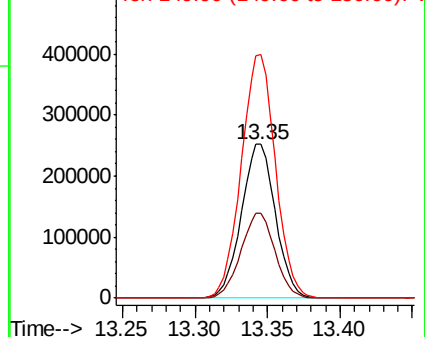
152 100

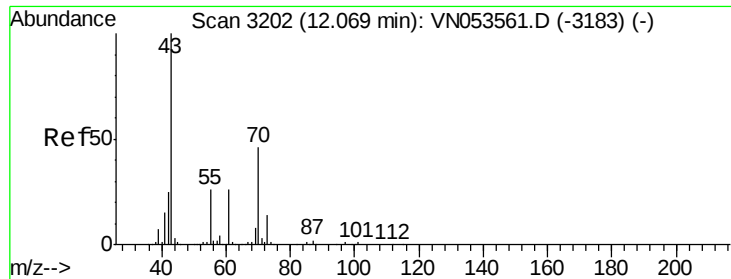
115 55.2 27.8 83.4

150 159.0 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





#74

N-ethyl acetate

Concen: 2.679 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053846.D

Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10

Tgt Ion: 43 Resp: 18650

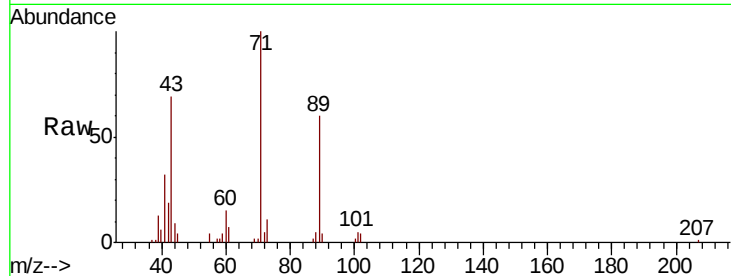
Ion Ratio Lower Upper

43 100

70 1.9 35.4 53.2#

55 5.7 20.9 31.3#

61 10.6 20.5 30.7#

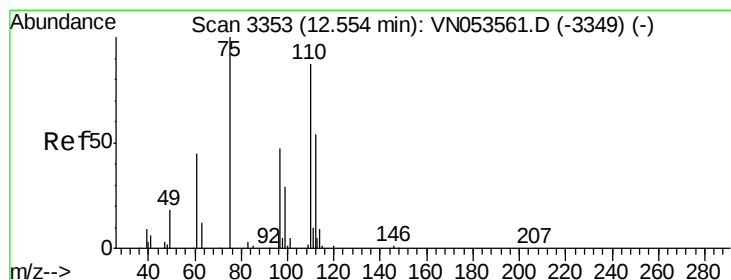
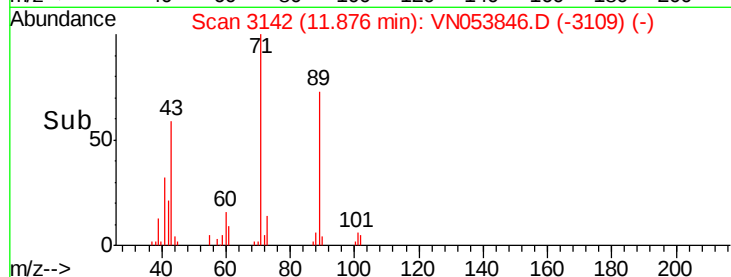
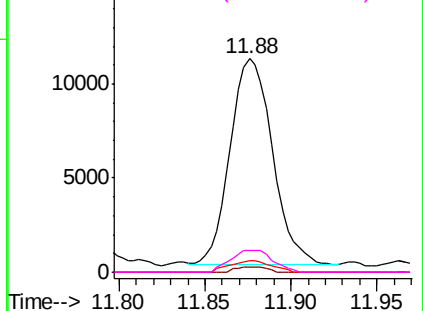


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 39.959 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053846.D

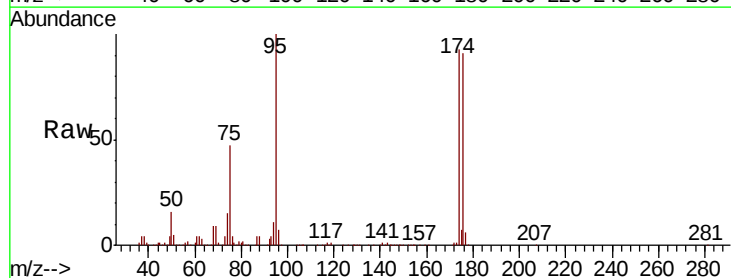
Acq: 18 Feb 2019 16:35

Tgt Ion: 75 Resp: 211330

Ion Ratio Lower Upper

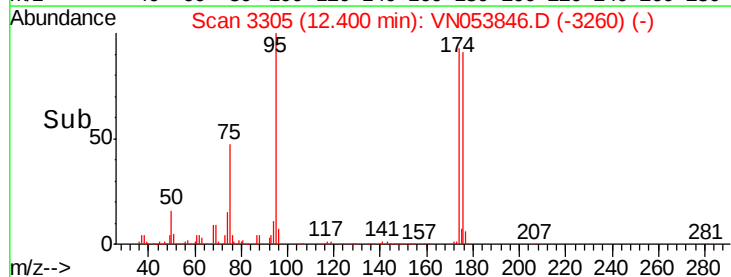
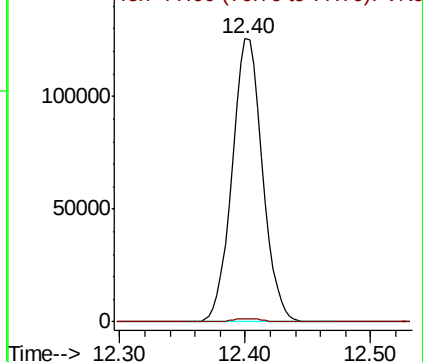
75 100

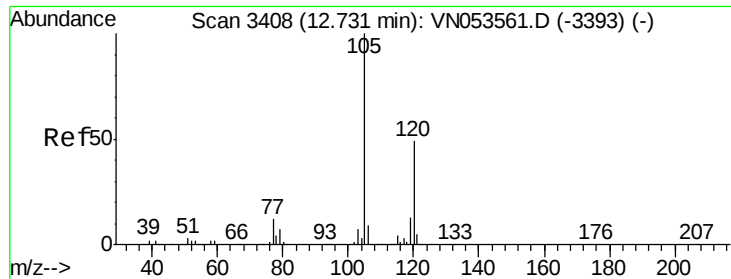
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

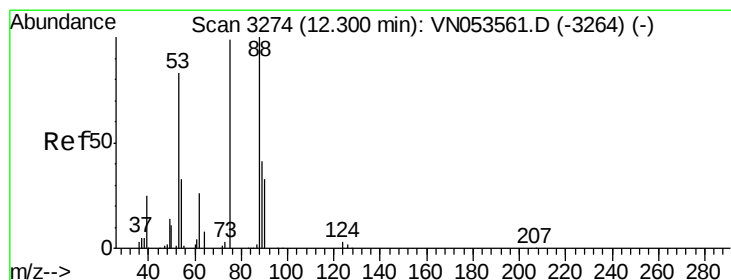
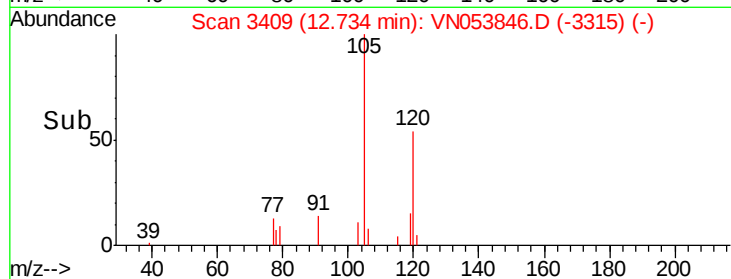
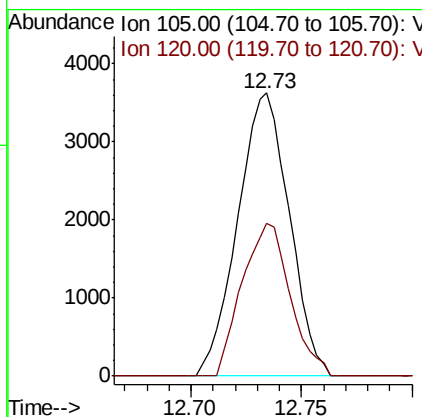
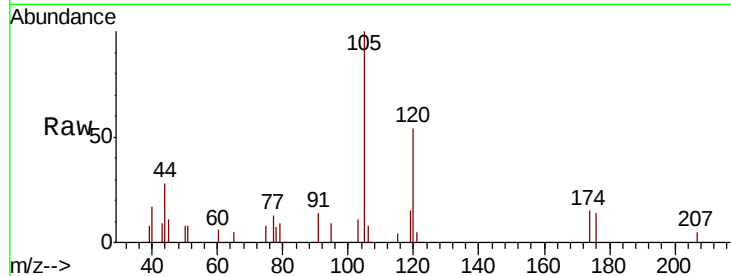




#80
 1,3,5-Trimethylbenzene
 Concen: 0.245 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

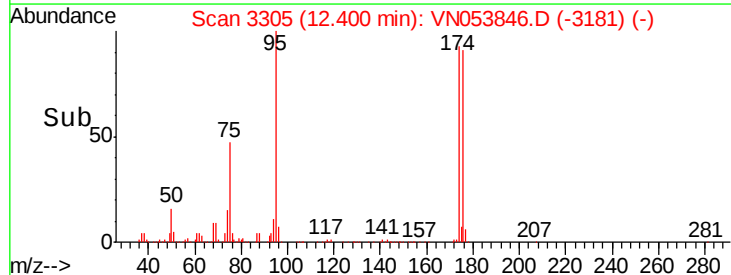
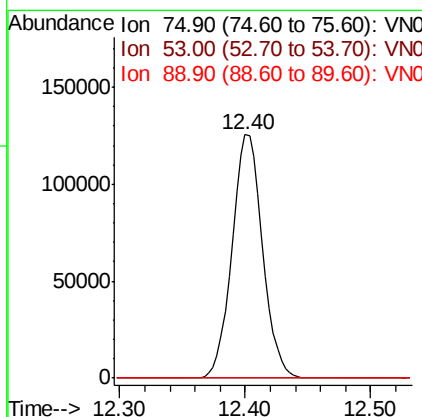
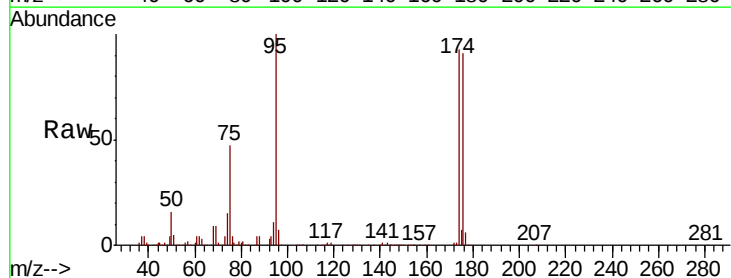
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#10

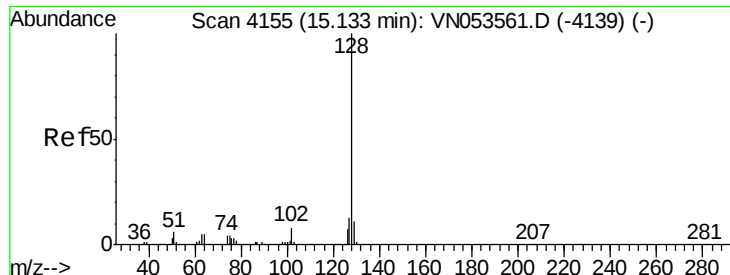
Tgt Ion: 105 Resp: 5876
 Ion Ratio Lower Upper
 105 100
 120 50.4 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.363 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053846.D
 Acq: 18 Feb 2019 16:35

Tgt Ion: 75 Resp: 211330
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.8 104.6#
 89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 1.738 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053846.D

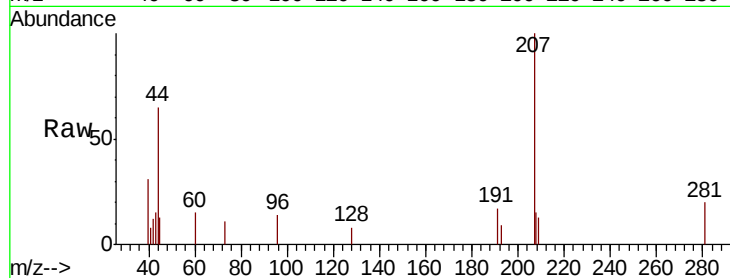
Acq: 18 Feb 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#10



Tgt Ion:	128	Resp:	30
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

