

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053634.D
 Acq On : 6 Feb 2019 14:56
 Operator : JC/SP
 Sample : PB116860ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#07

Quant Time: Feb 07 03:42:31 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	746454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1248738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1164095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	511682	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	402535	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
35) Dibromofluoromethane	7.59	113	396851	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.09	98	1514272	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
62) 4-Bromofluorobenzene	12.40	95	521062	52.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.46%	

Target Compounds

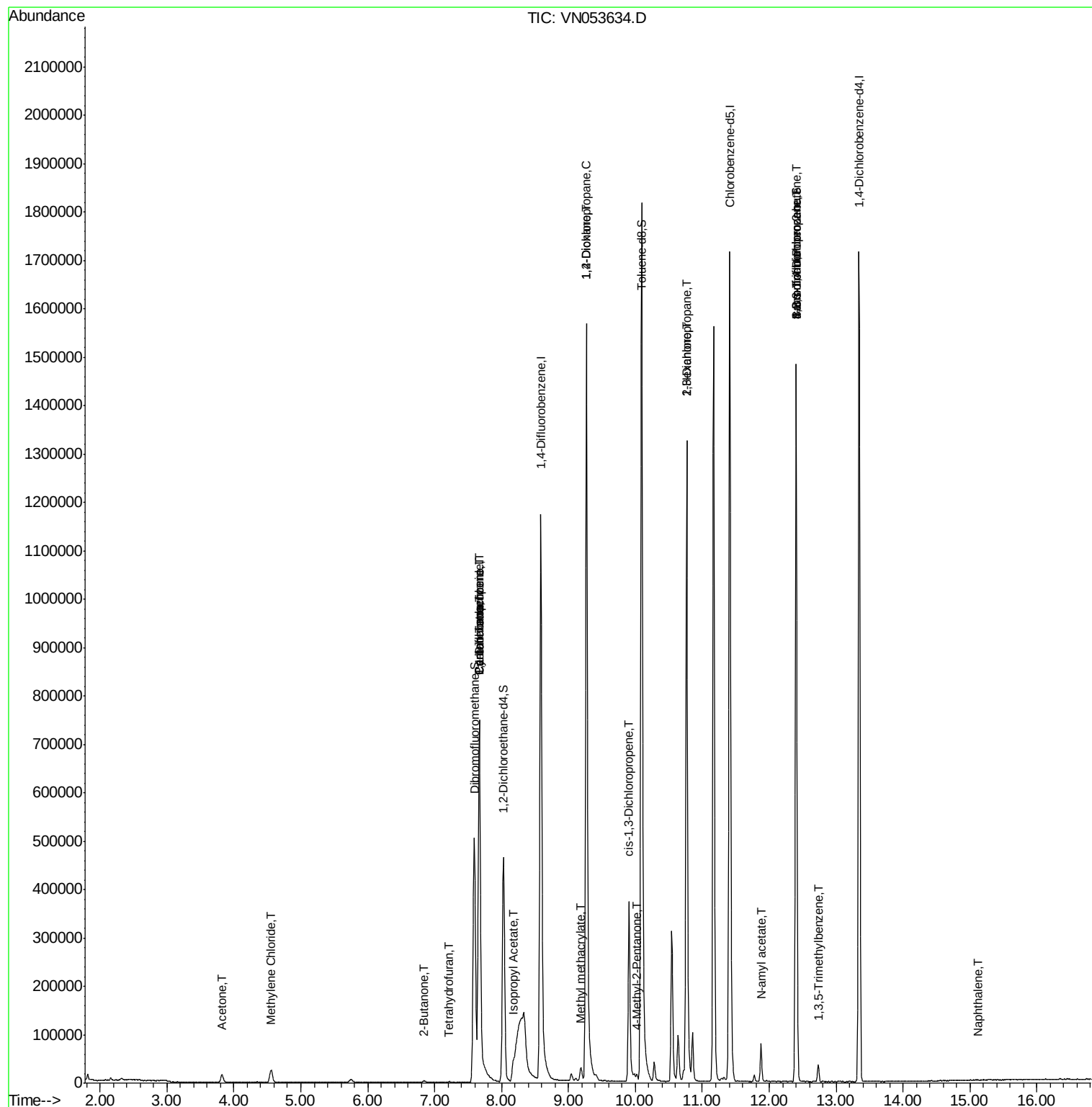
						Qvalue
16) Acetone	3.82	43	27494	14.314	ug/l	100
20) Methylene Chloride	4.55	84	19852	2.463	ug/l	94
25) 2-Butanone	6.84	43	5072	1.851	ug/l	94
29) Tetrahydrofuran	7.21	42	1548	0.880	ug/l #	48
31) Cyclohexane	7.67	56	10752	0.682	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43633	3.876	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60819	5.363	ug/l #	16
43) Isopropyl Acetate	8.17	43	38073	3.136	ug/l #	77
45) 1,2-Dichloropropane	9.27	63	2033	0.229	ug/l #	43
48) Methyl methacrylate	9.18	41	9954	1.718	ug/l #	12
49) 1,4-Dioxane	9.28	88	240	41.844	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9599	1.609	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	80376	6.087	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	14600	1.151	ug/l #	43
59) 2-Hexanone	10.76	43	200430	49.485	ug/l #	50
71) Bromoform	12.41	173	3675	0.621	ug/l #	1
74) N-amyl acetate	11.88	43	24285	2.808	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	243453	37.043	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	19233	0.645	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	243453	104.161	ug/l #	15
95) Naphthalene	15.14	128	61	1.739	ug/l #	69

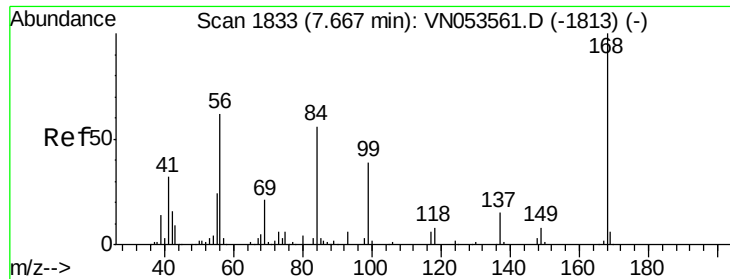
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

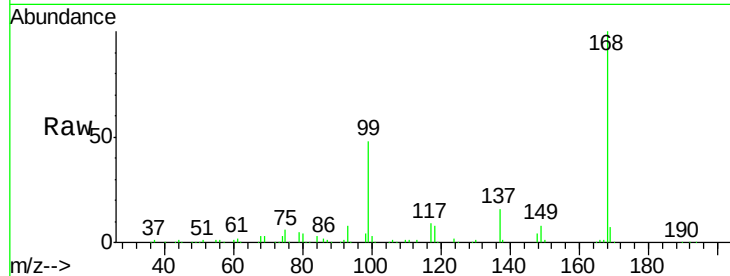
PB116860ZHE#07

Tot Ion:168 Resp: 746454

Ion Ratio Lower Upper

168 100

99 48.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053634.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053634.D (-1740) (-)

7.67

300000

250000

200000

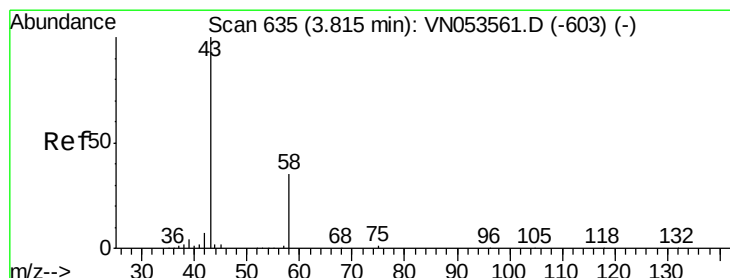
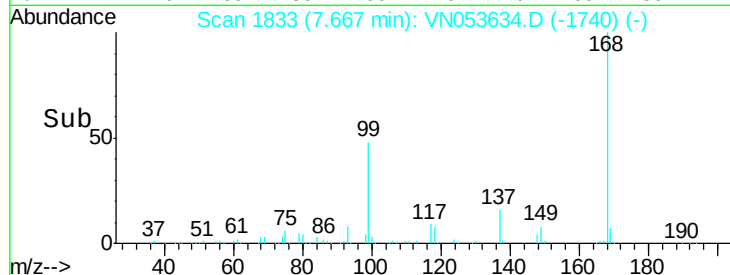
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 14.314 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053634.D

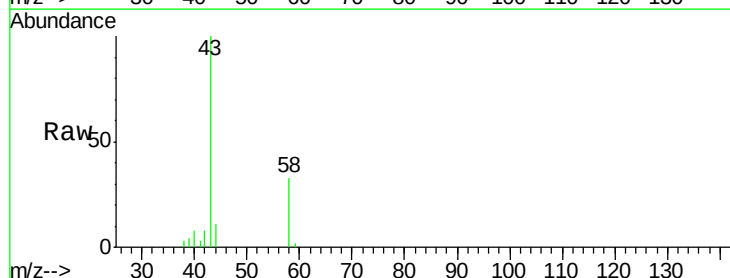
Acq: 6 Feb 2019 14:56

Tgt Ion: 43 Resp: 27494

Ion Ratio Lower Upper

43 100

58 33.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053634.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053634.D (-542) (-)

3.82

12000

10000

8000

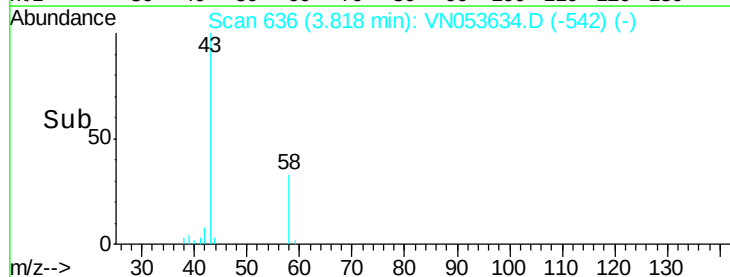
6000

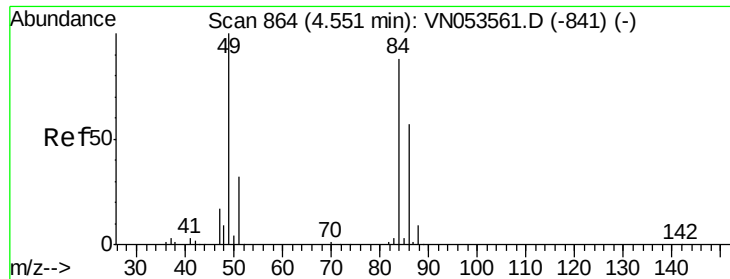
4000

2000

0

Time--> 3.75 3.80 3.85 3.90

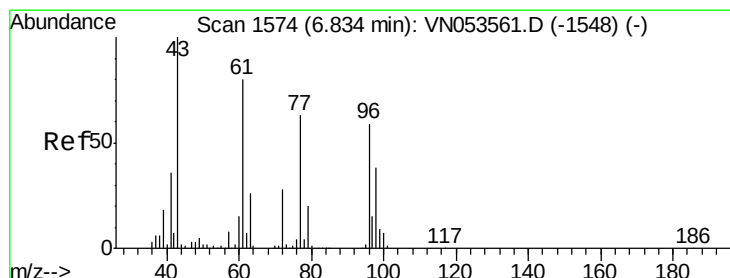
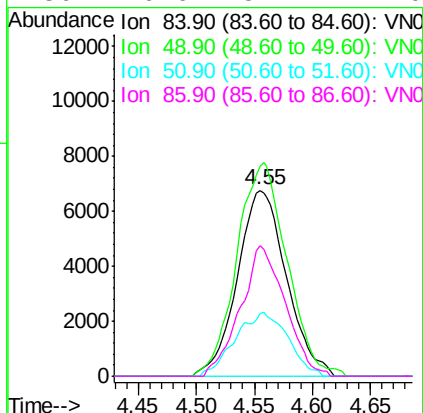
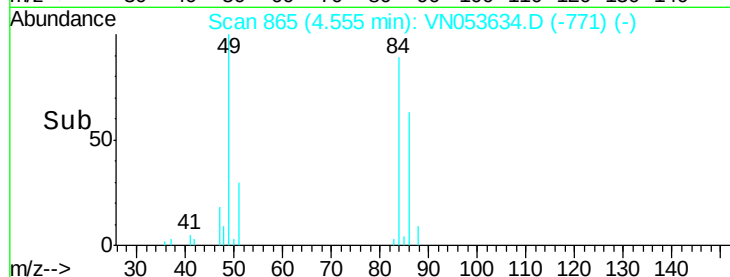
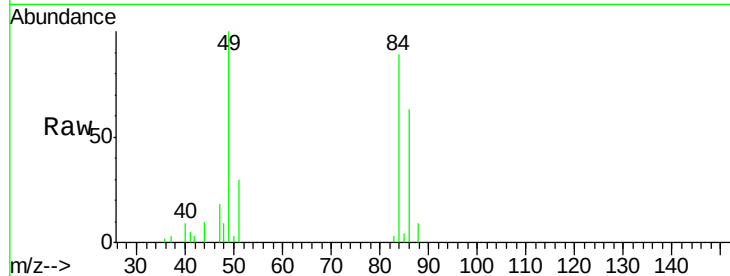




#20
Methvlene Chloride
Concen: 2.463 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053634.D
Acq: 6 Feb 2019 14:56

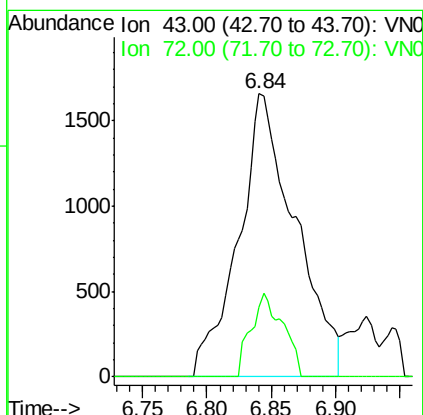
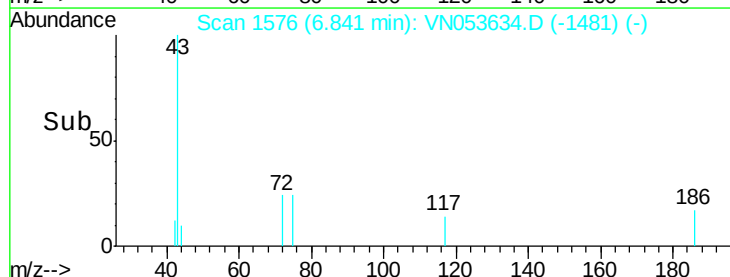
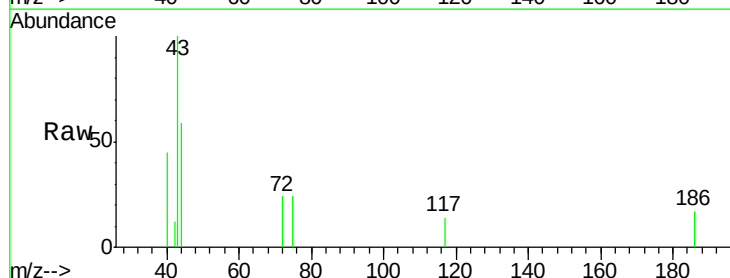
Instrument :
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PB116860ZHE#07

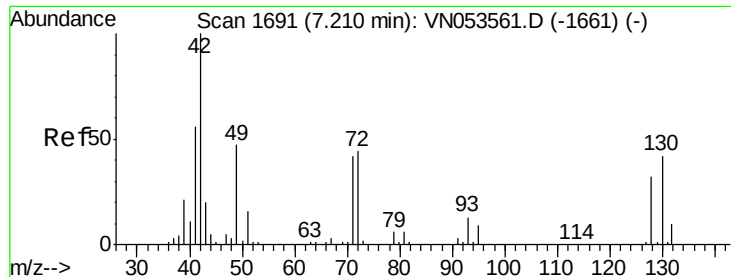
Tot Ion:	84	Resp:	19852
Ion	Ratio	Lower	Upper
84	100		
49	112.8	94.3	141.5
51	33.5	29.4	44.2
86	70.6	51.4	77.0



#25
2-Butanone
Concen: 1.851 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053634.D
Acq: 6 Feb 2019 14:56

Tgt Ion:	43	Resp:	5072
Ion	Ratio	Lower	Upper
43	100		
72	24.5	22.0	33.0





#29

Tetrahydrofuran

Concen: 0.880 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

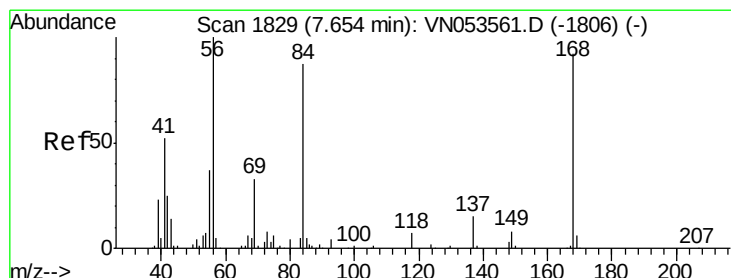
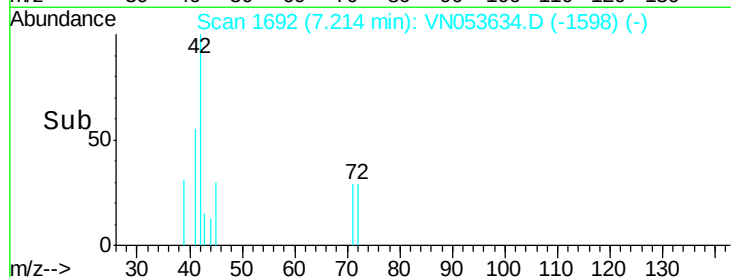
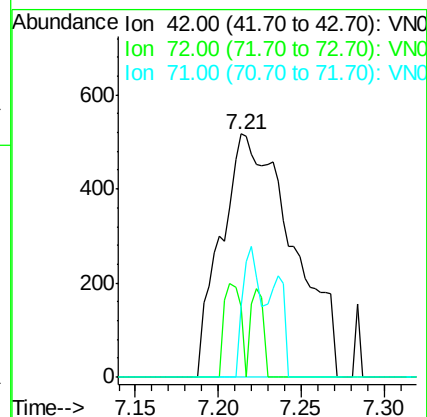
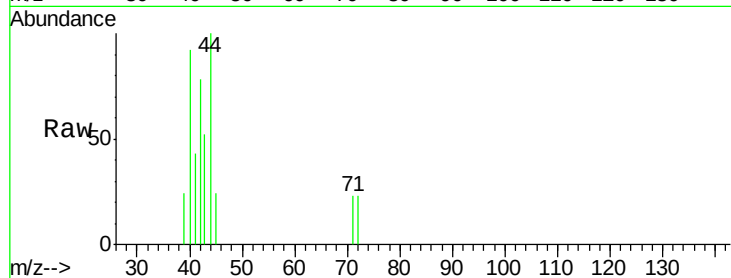
Tot Ion: 42 Resp: 1548

Ion Ratio Lower Upper

42 100

72 6.4 35.2 52.8#

71 12.9 33.0 49.4#



#31

Cyclohexane

Concen: 0.682 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

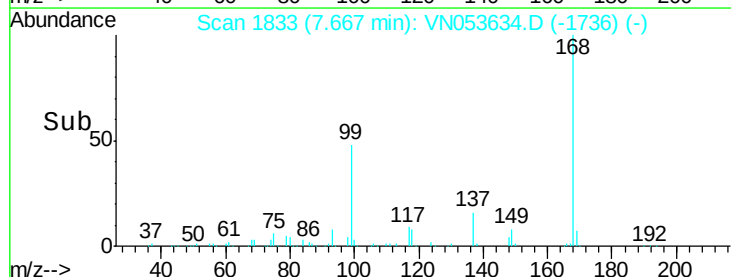
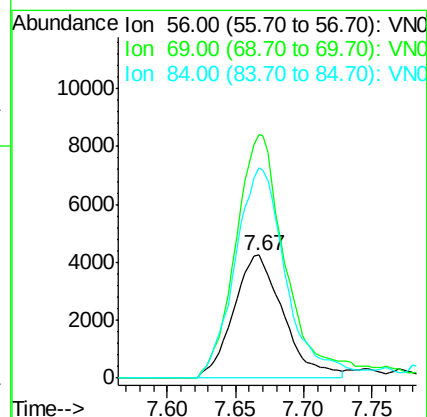
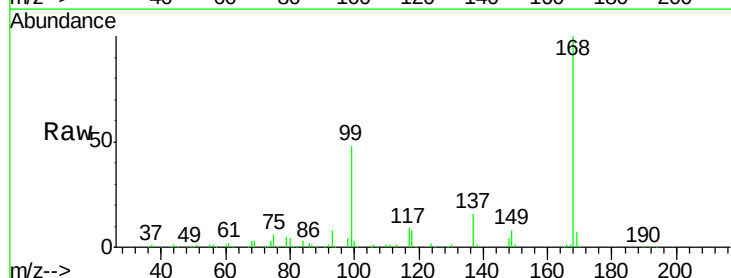
Tgt Ion: 56 Resp: 10752

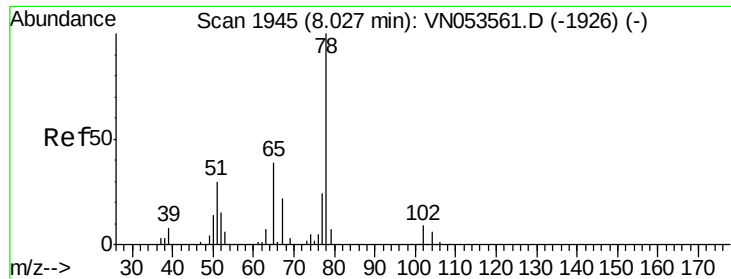
Ion Ratio Lower Upper

56 100

69 198.3 26.4 39.6#

84 171.6 67.9 101.9#

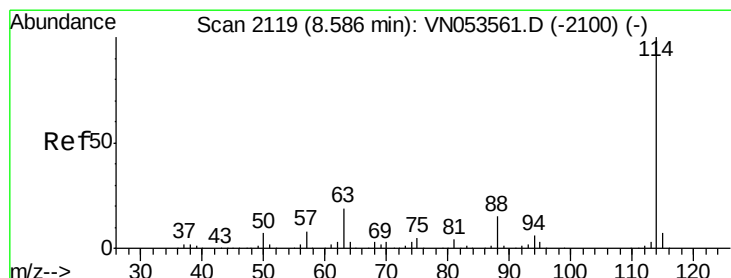
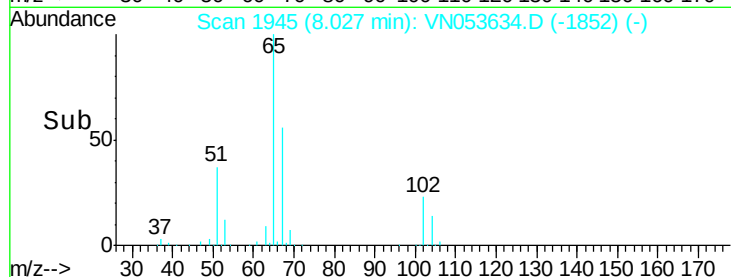
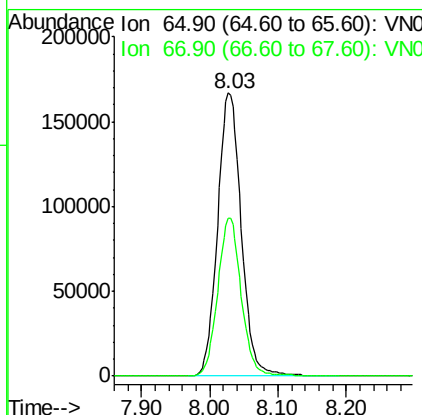
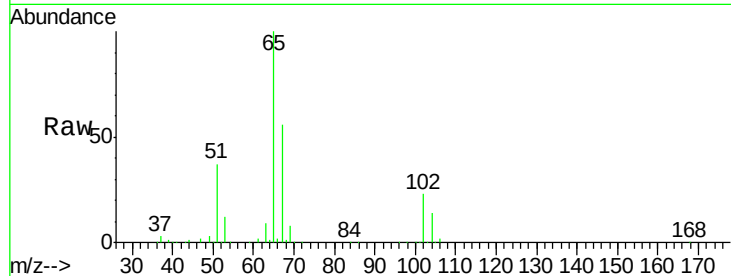




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

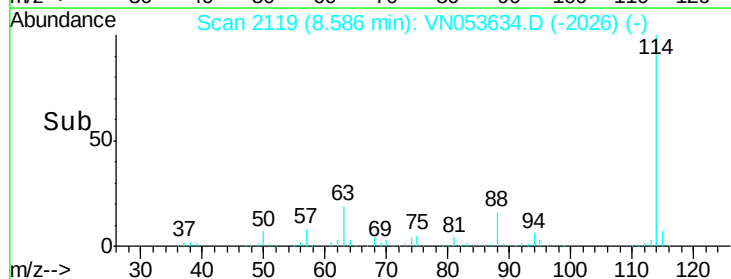
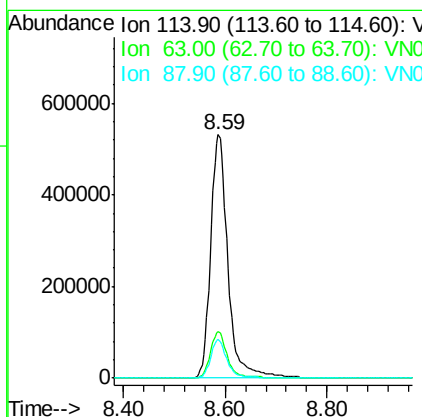
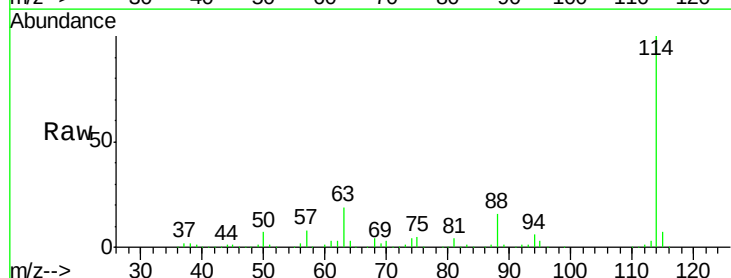
Instrument :
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 PB116860ZHE#07

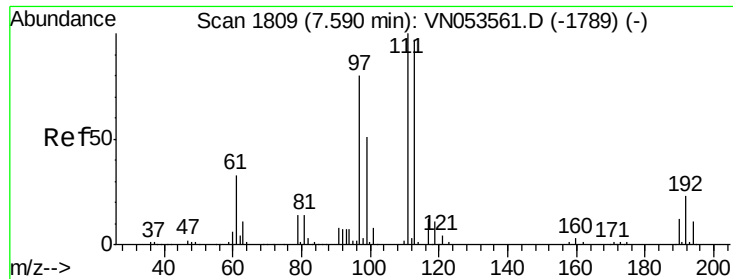
Tot Ion: 65 Resp: 402535
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

Tgt Ion: 114 Resp: 1248738
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.7 0.0 30.4

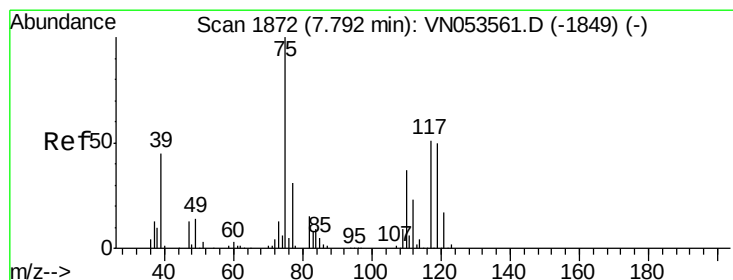
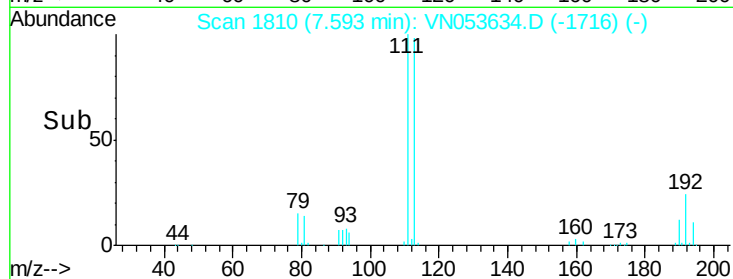
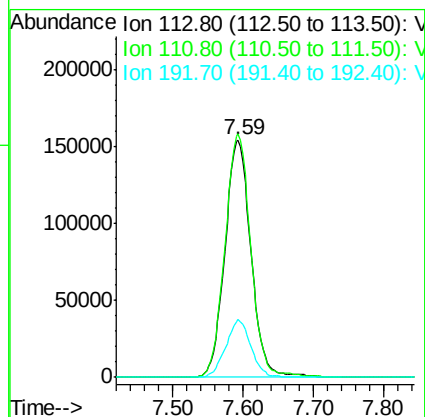
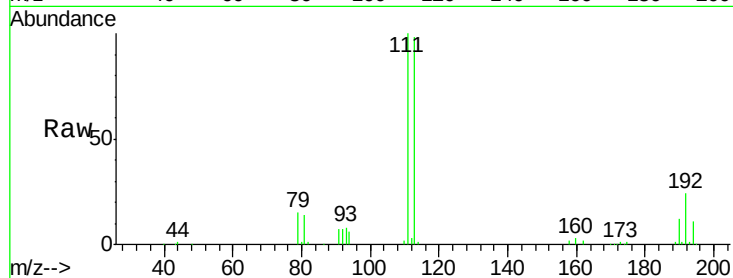




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

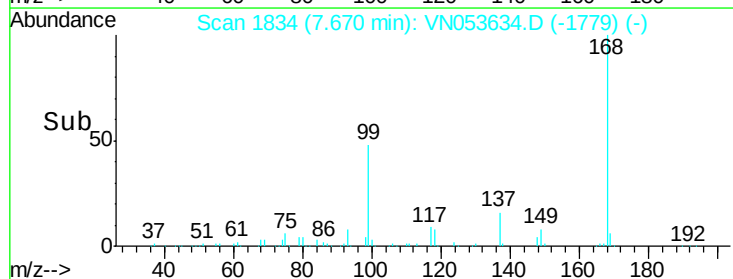
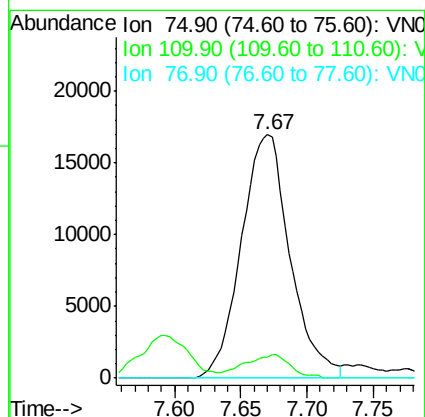
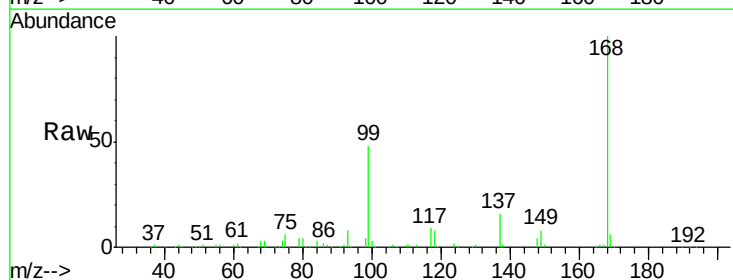
Instrument :
 MSVOA_N
 ClientSampleId :
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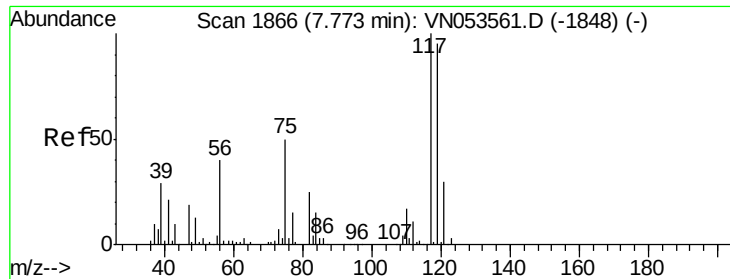
Tot Ion:113 Resp: 396851
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.1 121.7
 192 23.6 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.876 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

Tgt Ion: 75 Resp: 43633
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.363 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

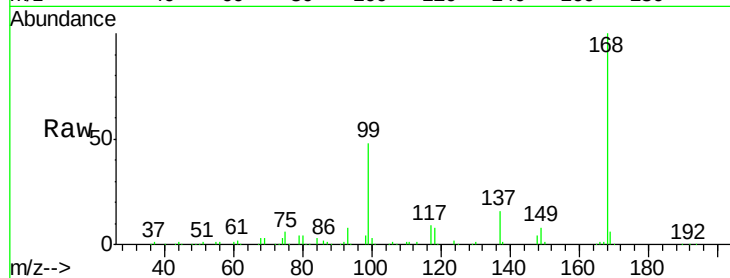
Tot Ion:117 Resp: 60819

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

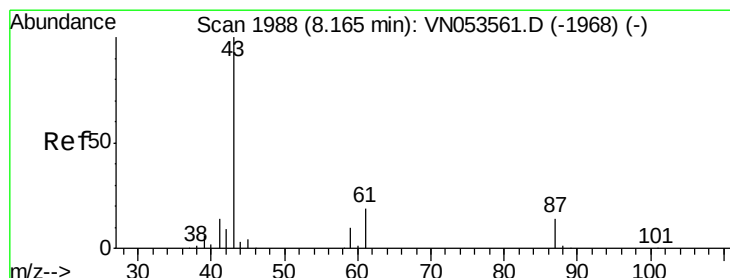
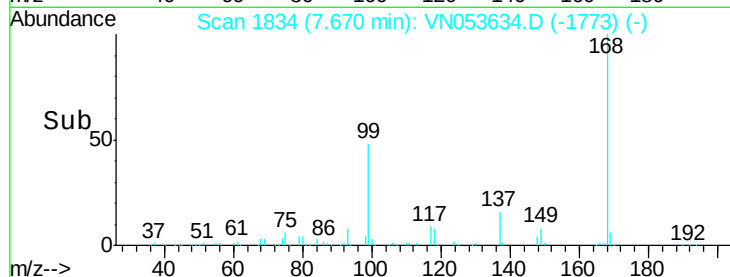
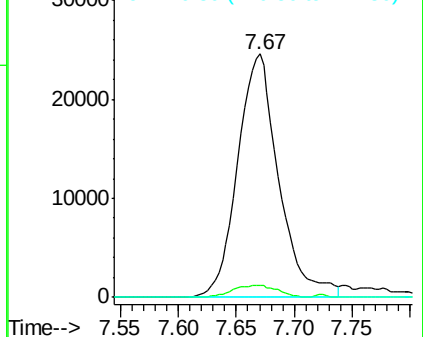
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.136 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

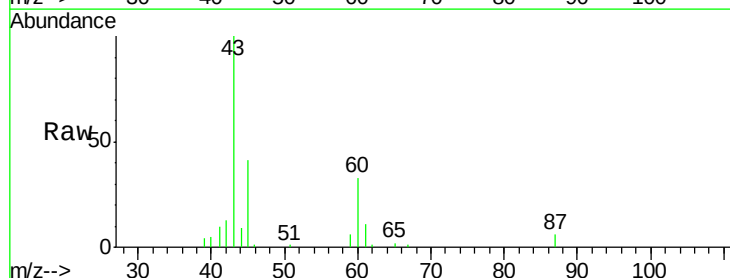
Tgt Ion: 43 Resp: 38073

Ion Ratio Lower Upper

43 100

61 14.0 23.9 35.9#

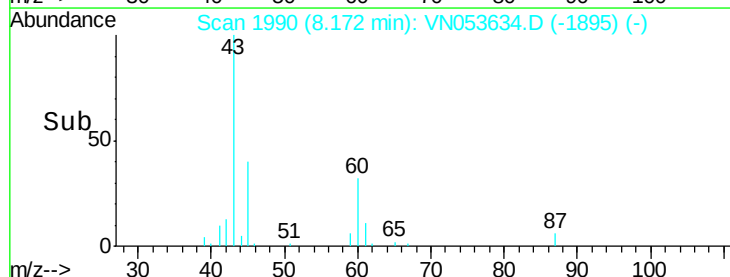
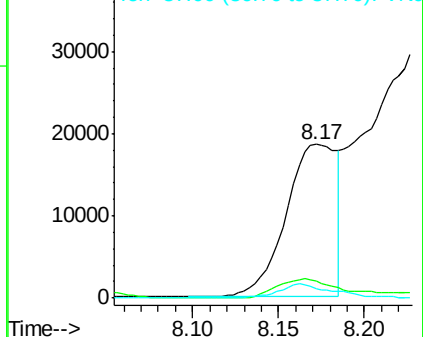
87 9.6 11.0 16.6#

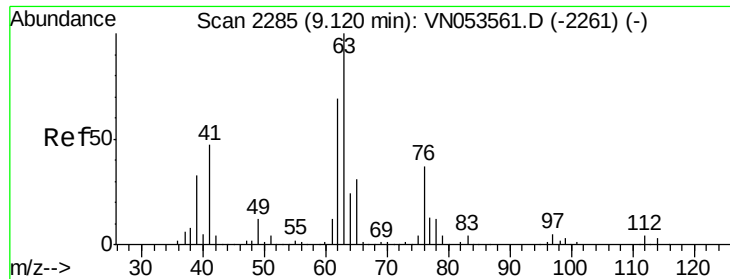


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

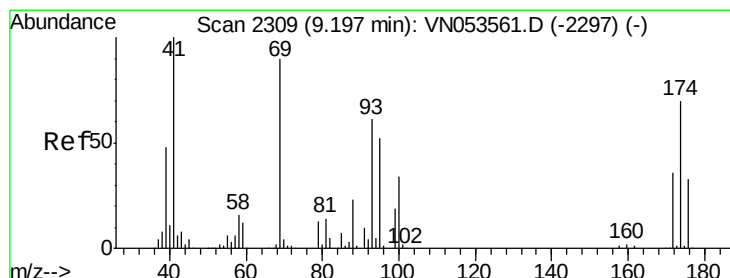
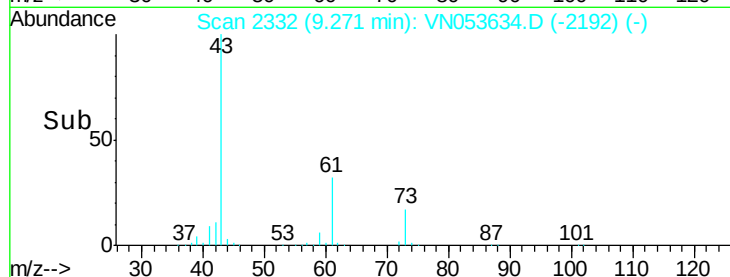
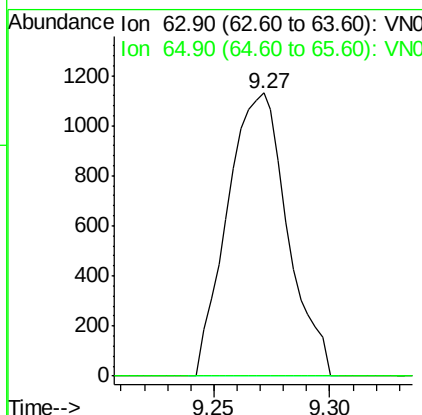
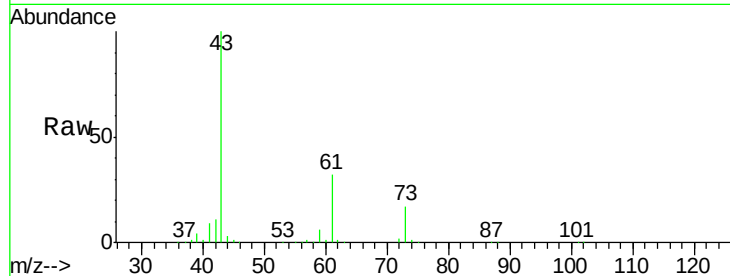




#45
 1,2-Dichloropropane
 Concen: 0.229 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

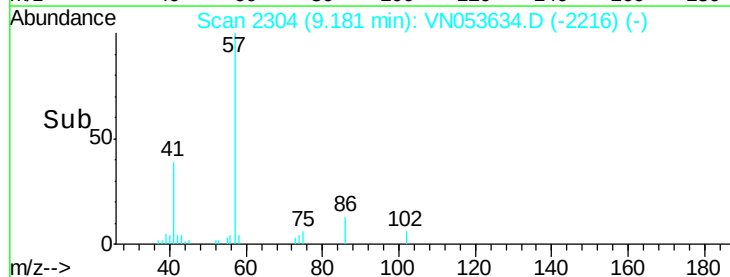
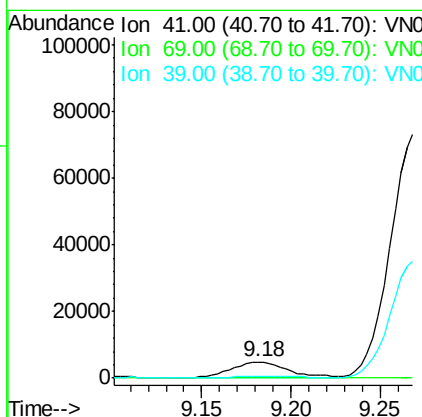
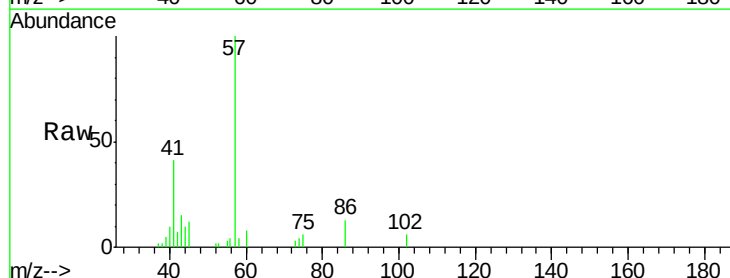
Instrument :
 MSVOA_N
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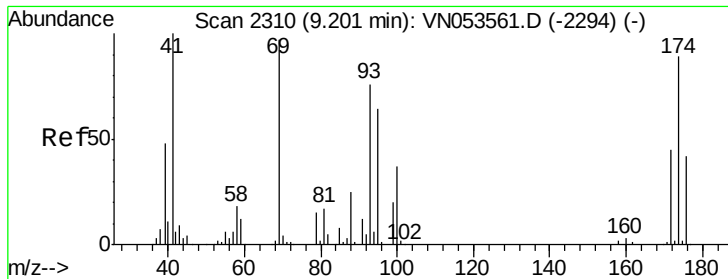
Tot Ion: 63 Resp: 2033
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.718 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

Tgt Ion: 41 Resp: 9954
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 41.844 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.08 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

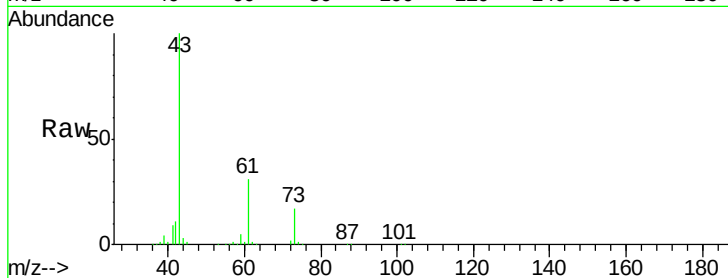
Tot Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 698299.2 27.8 41.6#

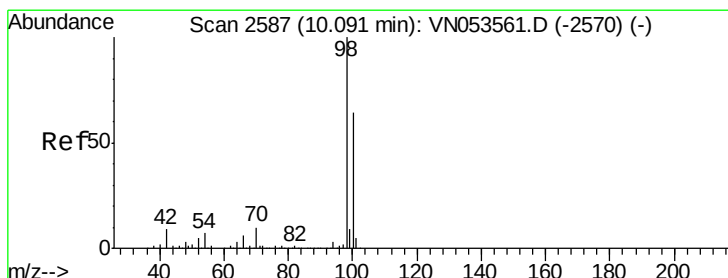
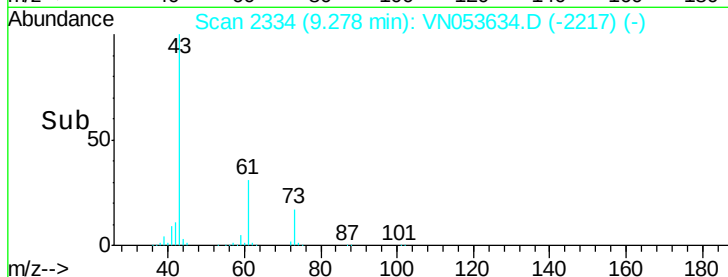
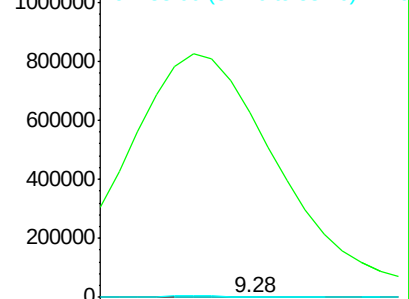
58 3208.8 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 41.844 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053634.D

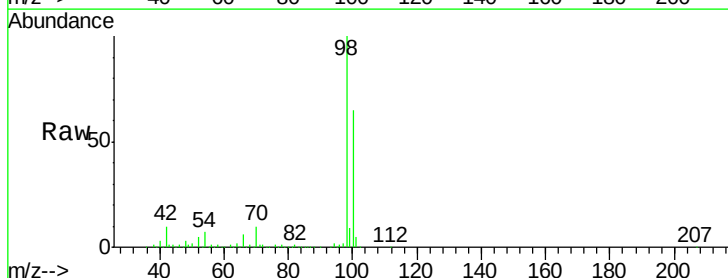
Acq: 6 Feb 2019 14:56

Tgt Ion: 98 Resp: 1514272

Ion Ratio Lower Upper

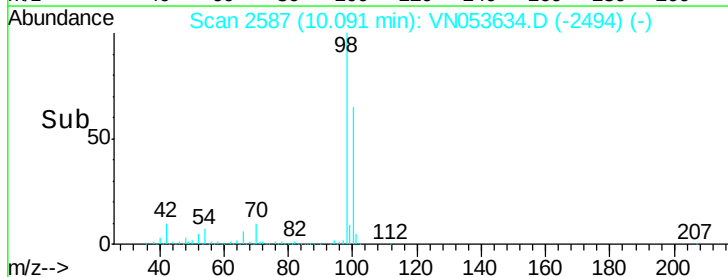
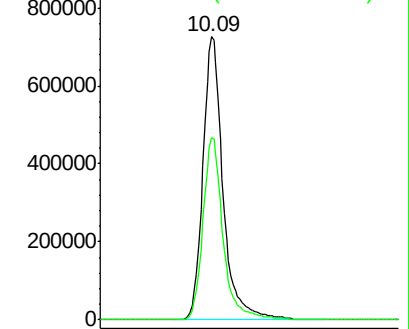
98 100

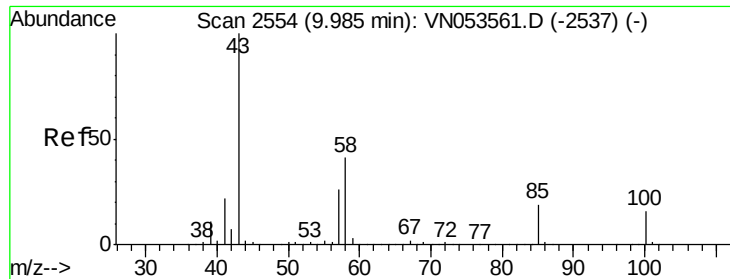
100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

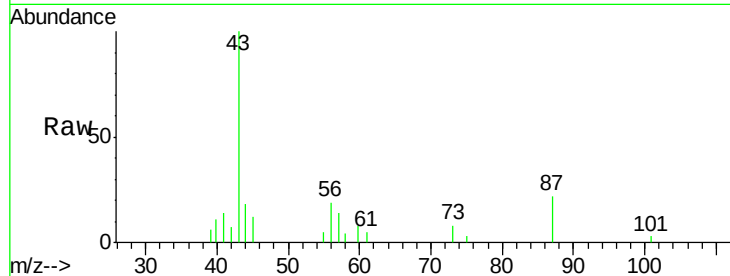
PB116860ZHE#07

Tot Ion: 43 Resp: 9599

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

10.02

6000

4000

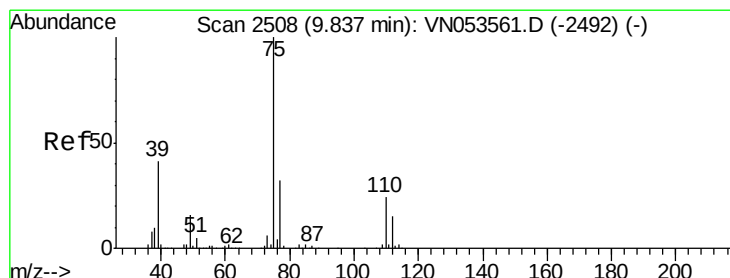
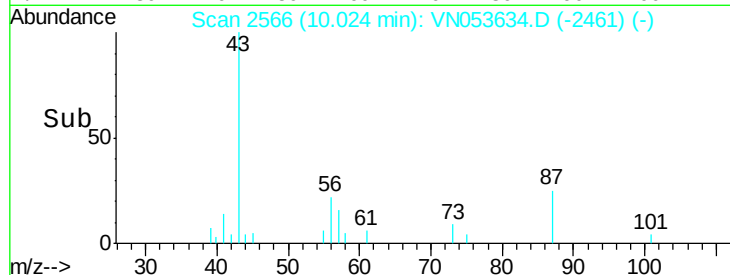
2000

0

Time-->

10.00

10.05



#54

cis-1,3-Dichloropropene

Concen: 6.087 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

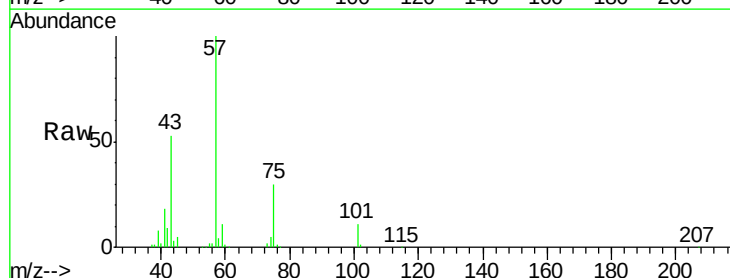
Tgt Ion: 75 Resp: 80376

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 25.7 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.90

50000

40000

30000

20000

10000

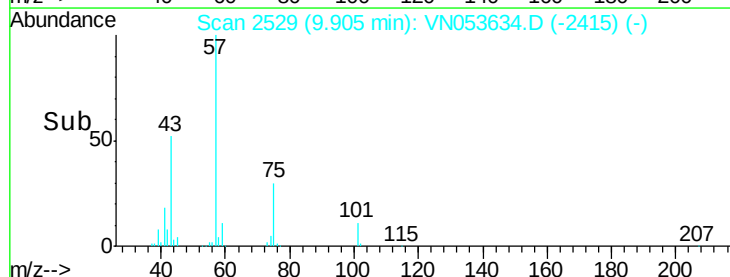
0

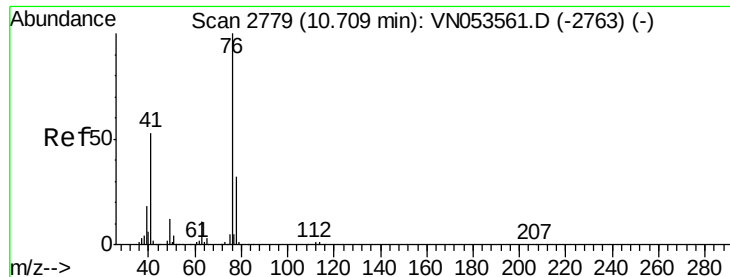
Time-->

9.80

9.90

10.00





#57

1,3-Dichloropropane

Concen: 1.151 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

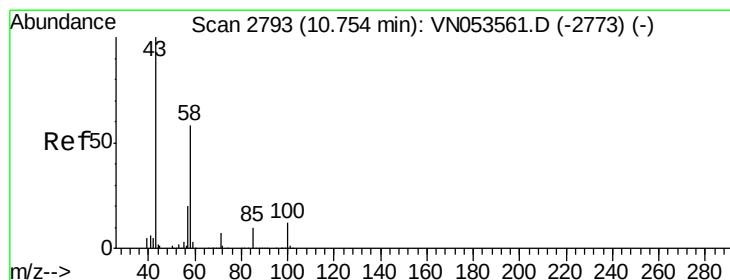
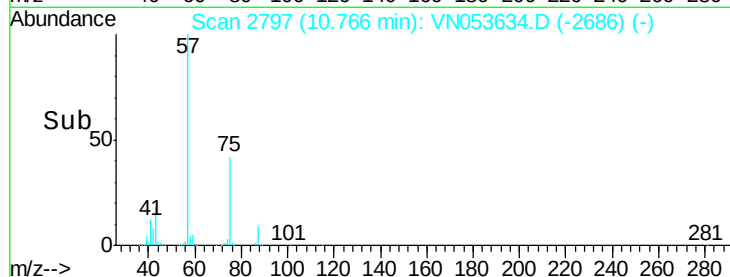
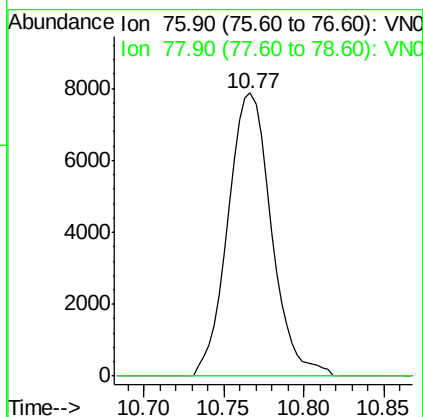
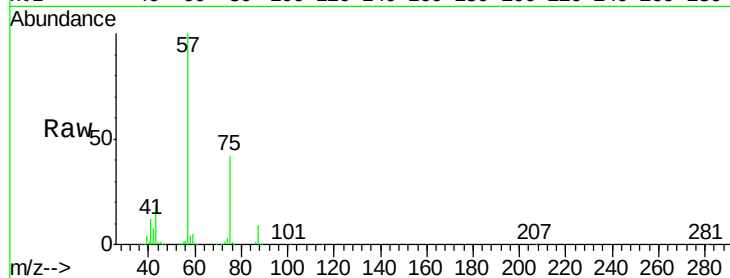
PB116860ZHE#07

Tot Ion: 76 Resp: 14600

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 49.485 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053634.D

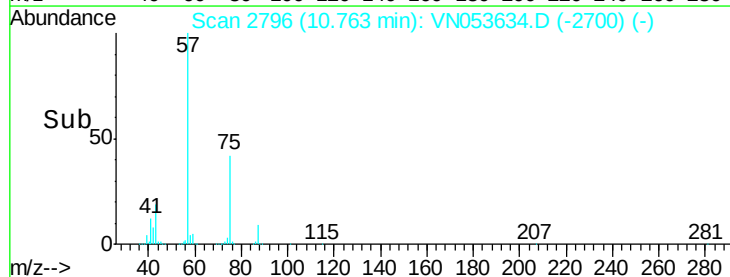
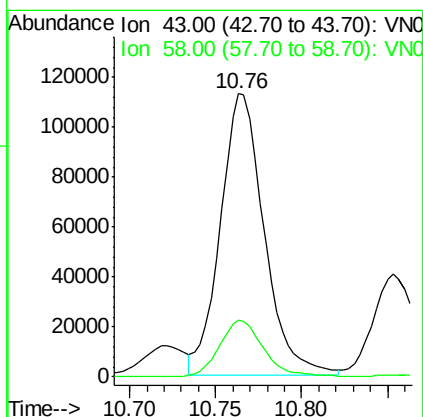
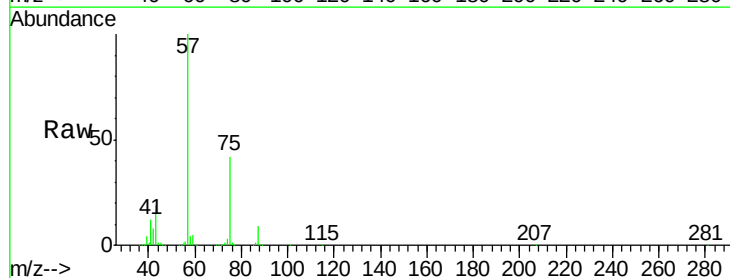
Acq: 6 Feb 2019 14:56

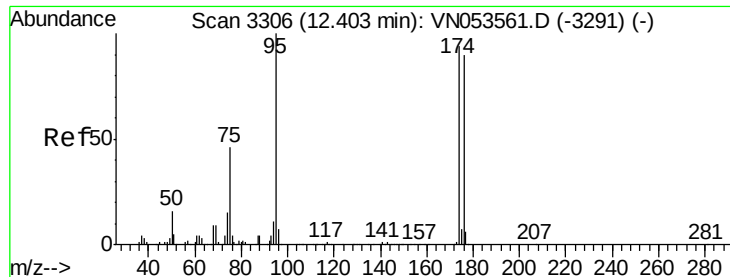
Tgt Ion: 43 Resp: 200430

Ion Ratio Lower Upper

43 100

58 20.4 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

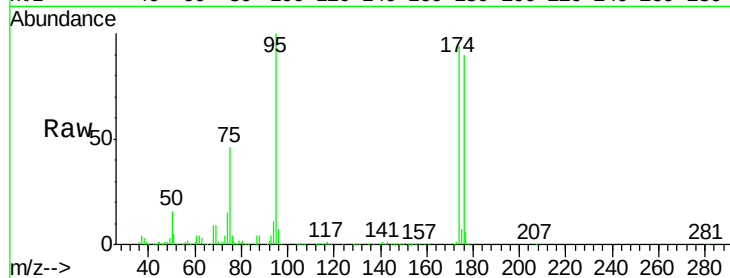
Tot Ion: 95 Resp: 521062

Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.2

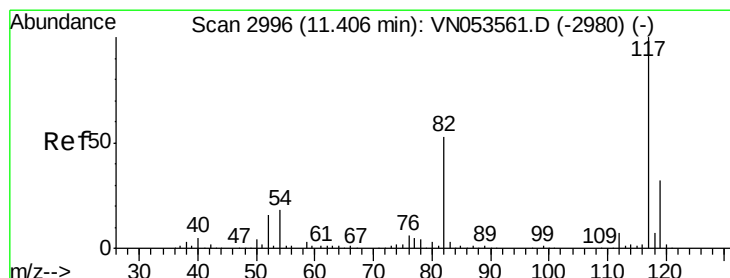
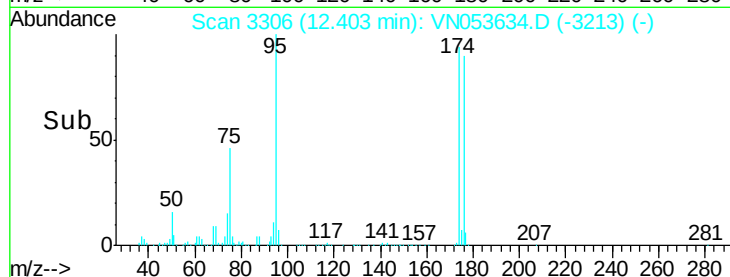
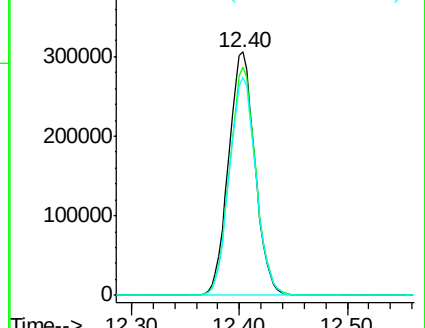
176 90.4 0.0 177.4



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: VN053634.D

Acq: 6 Feb 2019 14:56

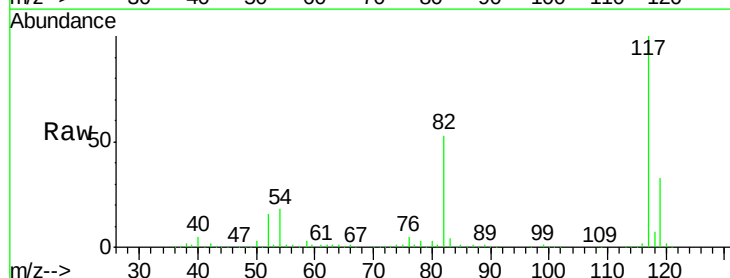
Tgt Ion: 117 Resp: 1164095

Ion Ratio Lower Upper

117 100

82 53.2 42.9 64.3

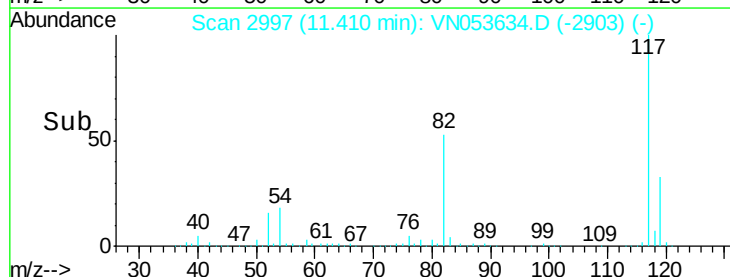
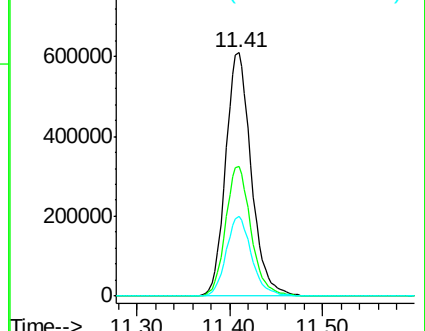
119 32.5 26.0 39.0

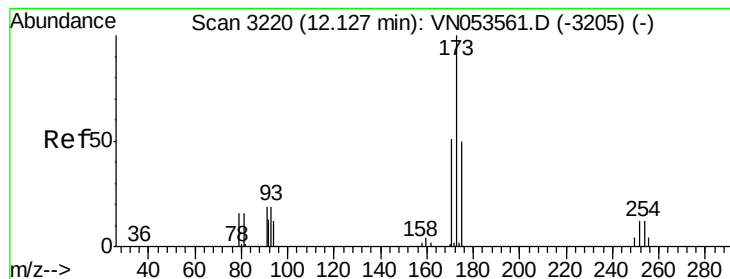


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

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: 0.621 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

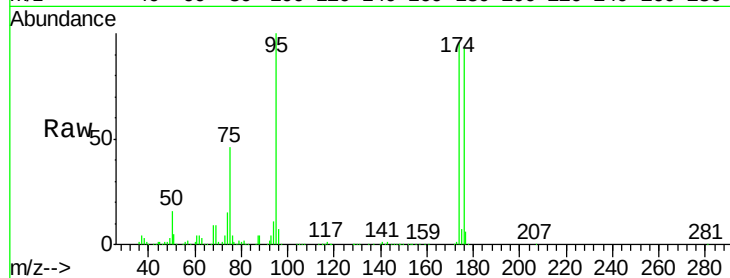
Tot Ion:173 Resp: 3675

Ion Ratio Lower Upper

173 100

175 792.2 24.6 74.0#

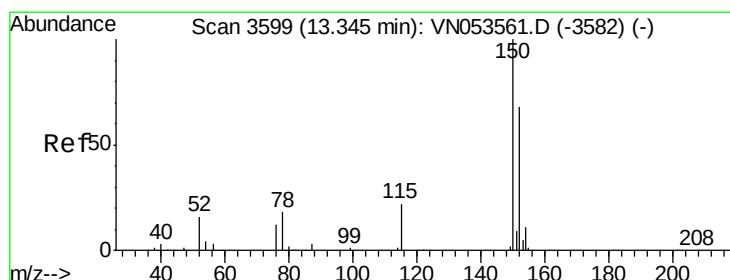
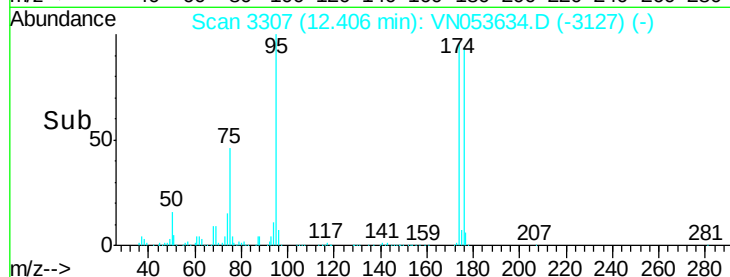
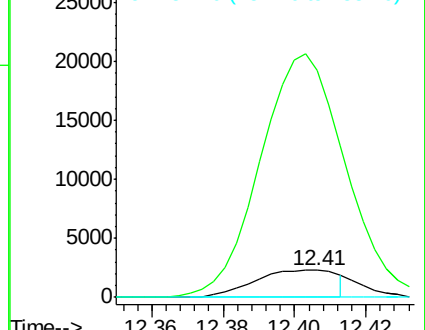
254 0.0 0.2 0.2#



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: VN053634.D

Acq: 6 Feb 2019 14:56

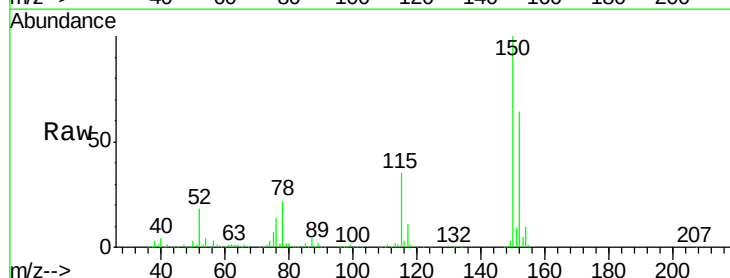
Tgt Ion:152 Resp: 511682

Ion Ratio Lower Upper

152 100

115 54.9 27.8 83.4

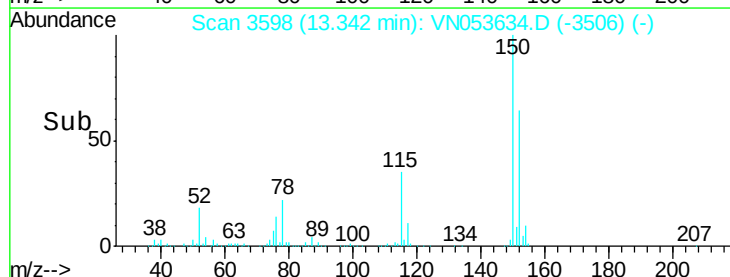
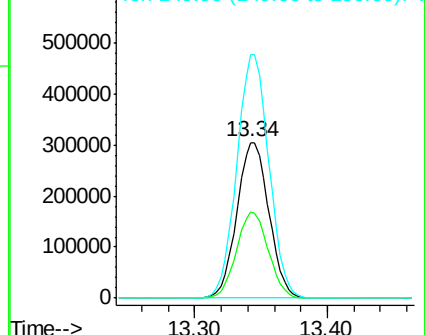
150 156.4 0.0 349.0

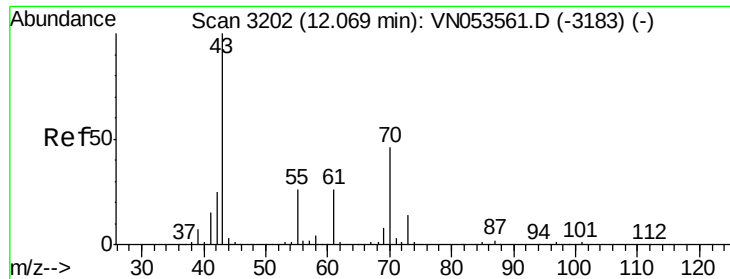


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.808 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053634.D

Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07

Tot Ion: 43 Resp: 24285

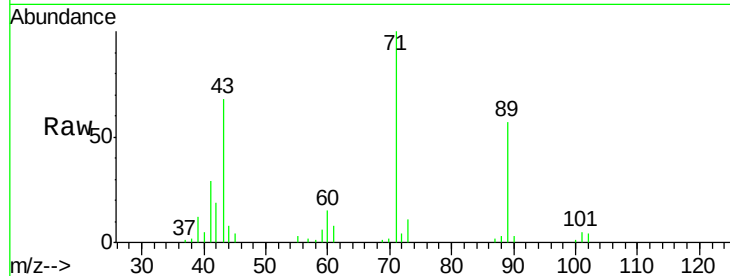
Ion Ratio Lower Upper

43 100

70 2.3 35.4 53.2#

55 4.6 20.9 31.3#

61 10.3 20.5 30.7#

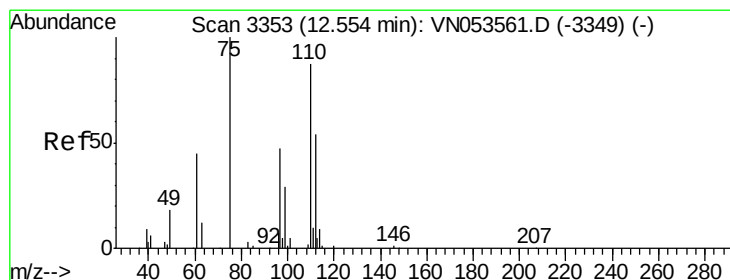
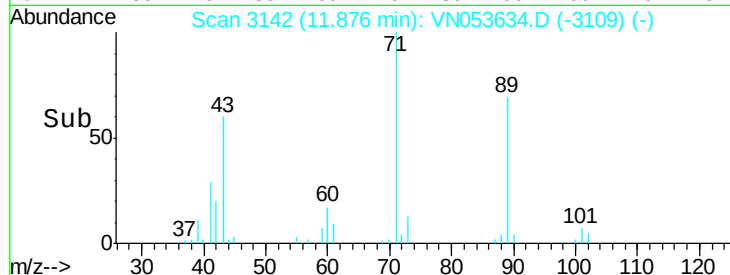
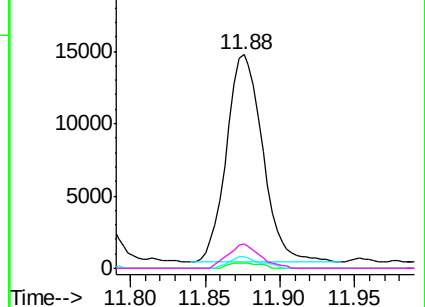


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 37.043 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053634.D

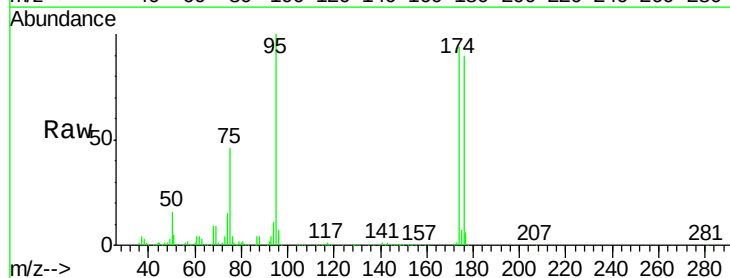
Acq: 6 Feb 2019 14:56

Tgt Ion: 75 Resp: 243453

Ion Ratio Lower Upper

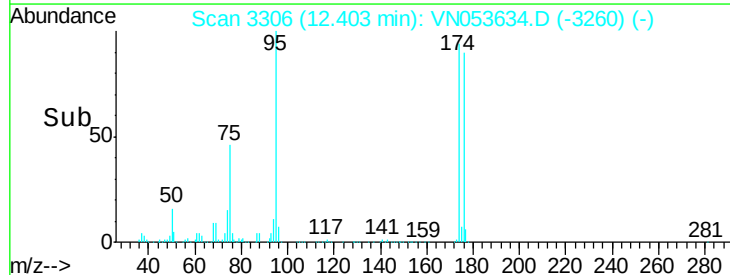
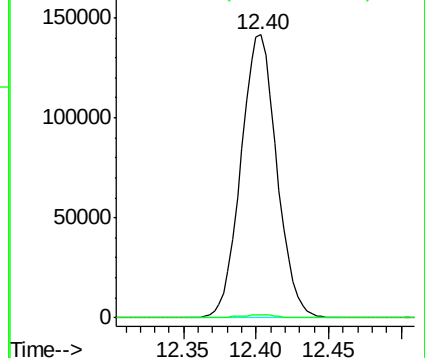
75 100

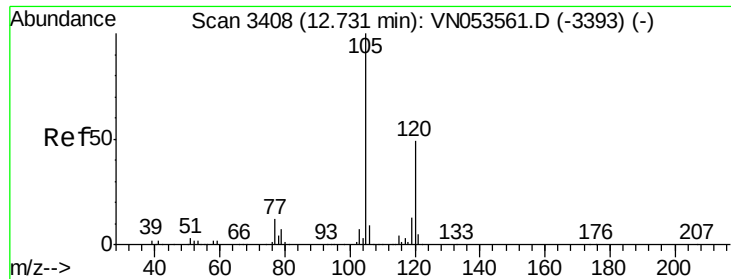
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

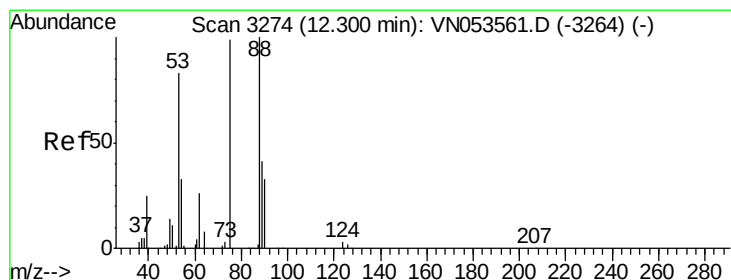
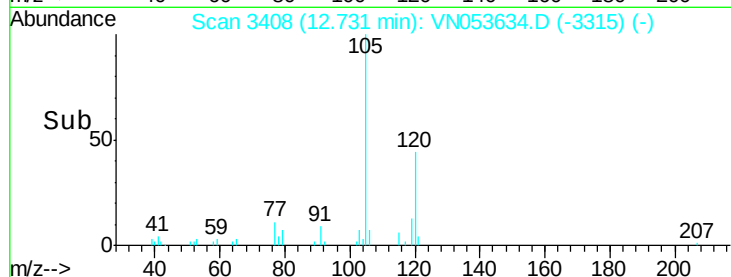
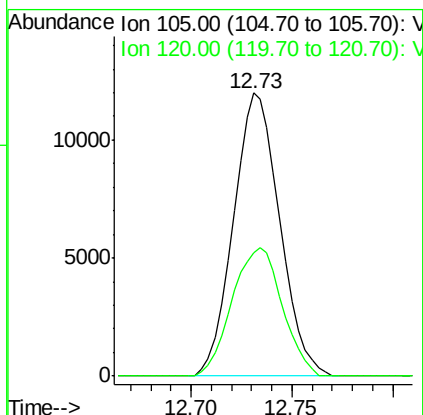
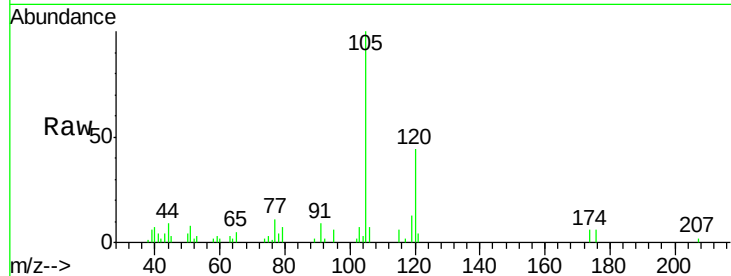




#80
 1,3,5-Trimethylbenzene
 Concen: 0.645 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

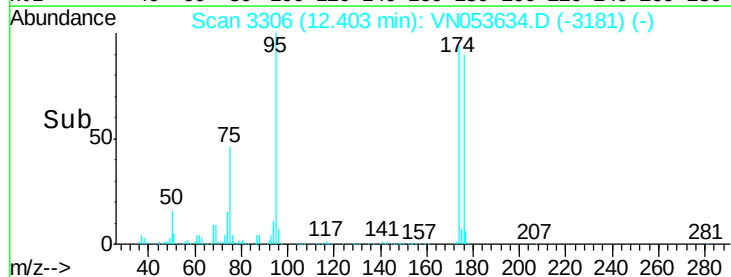
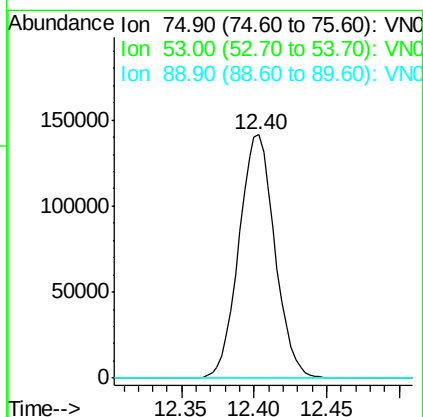
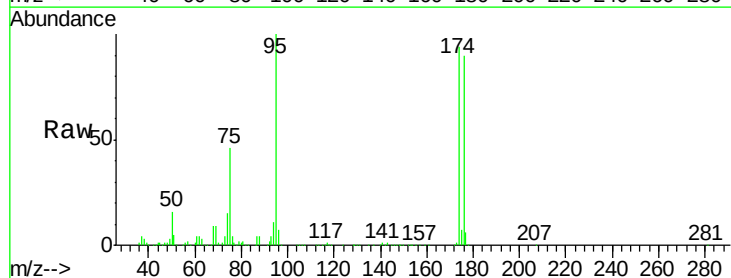
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#07

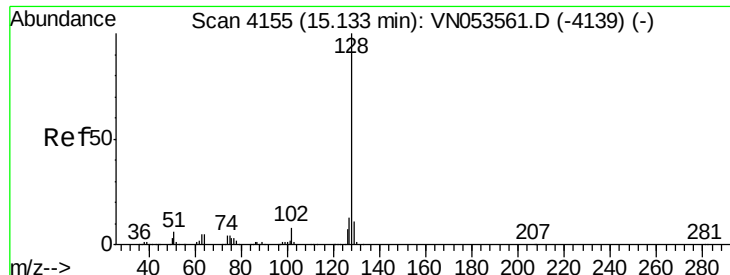
Tot Ion:105 Resp: 19233
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.161 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN053634.D
 Acq: 6 Feb 2019 14:56

Tgt Ion: 75 Resp: 243453
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 1.739 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053634.D

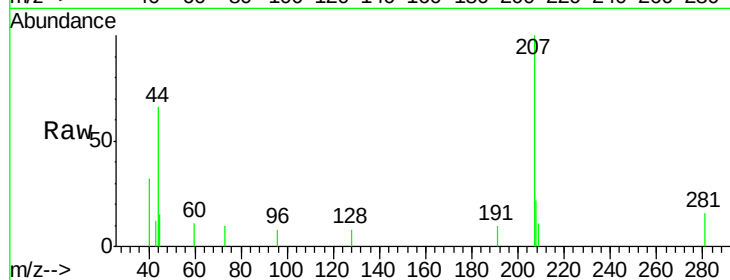
Acq: 6 Feb 2019 14:56

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#07



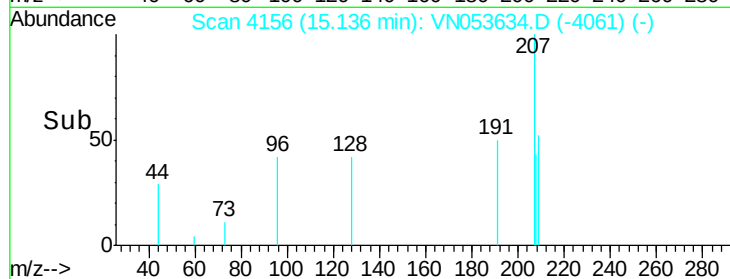
Tot Ion:128 Resp: 61

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

