

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052262.D
 Acq On : 12 Nov 2018 15:11
 Operator : MD\SY
 Sample : PB114678ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#06

Quant Time: Nov 13 00:14:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	321666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	538402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	472625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	174433	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	213397	48.51	ug/l	0.00
Spiked Amount						
			Recovery	=	97.02%	
35) Dibromofluoromethane	7.59	113	169179	48.51	ug/l	0.00
Spiked Amount						
			Recovery	=	97.02%	
50) Toluene-d8	10.09	98	675068	49.46	ug/l	0.00
Spiked Amount						
			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.40	95	205431	46.54	ug/l	0.00
Spiked Amount						
			Recovery	=	93.08%	

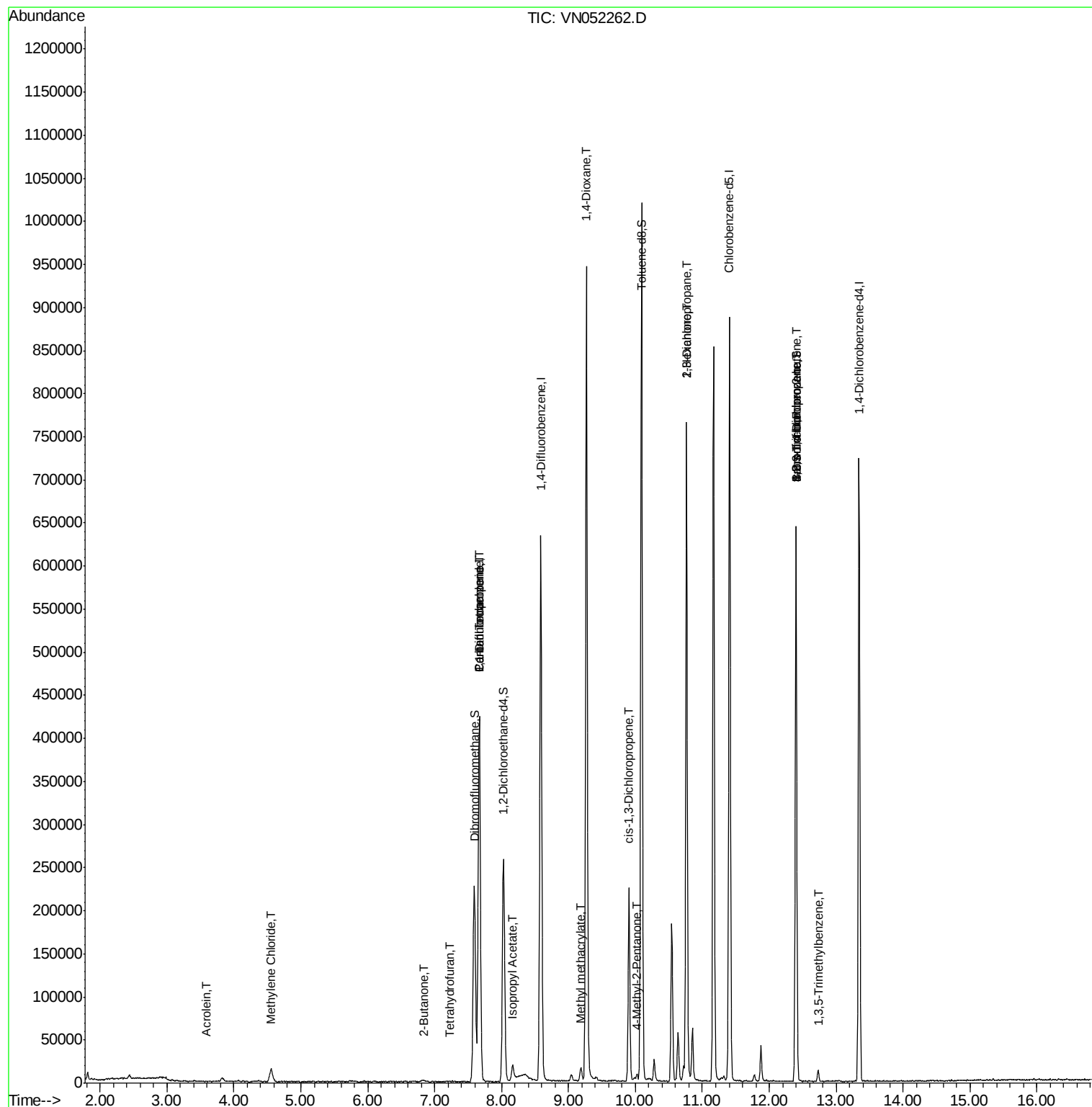
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	32	34.178	ug/l #	1
16) Acetone	3.82	43	7506	Below Cal		94
20) Methylene Chloride	4.55	84	4179	1.042	ug/l #	96
25) 2-Butanone	6.85	43	385	0.205	ug/l #	52
29) Tetrahydrofuran	7.22	42	530	0.434	ug/l #	40
36) 1,1-Dichloropropene	7.67	75	28913	5.320	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33668	6.836	ug/l #	15
43) Isopropyl Acetate	8.17	43	25359	3.559	ug/l	99
48) Methyl methacrylate	9.18	41	6418	1.710	ug/l #	15
49) 1,4-Dioxane	9.27	88	68	2.253	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	5984	1.521	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	35926	5.962	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	7297	1.202	ug/l #	43
59) 2-Hexanone	10.76	43	121932	44.146	ug/l #	54
71) Bromoform	12.40	173	1132	0.559	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	112618	36.491	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5943	0.524	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	112618	124.560	ug/l #	8

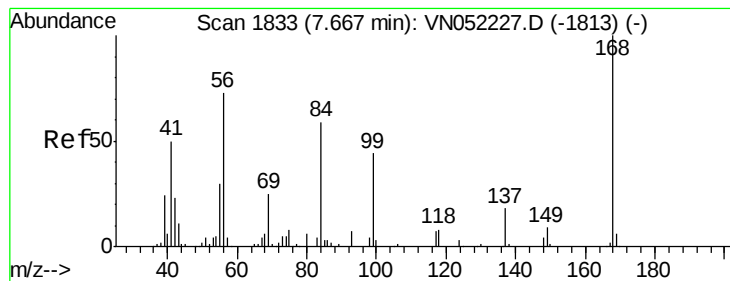
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
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: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

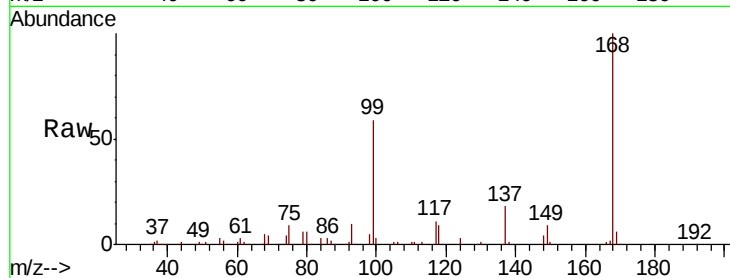
PB114678ZHE#06

Tot Ion:168 Resp: 321666

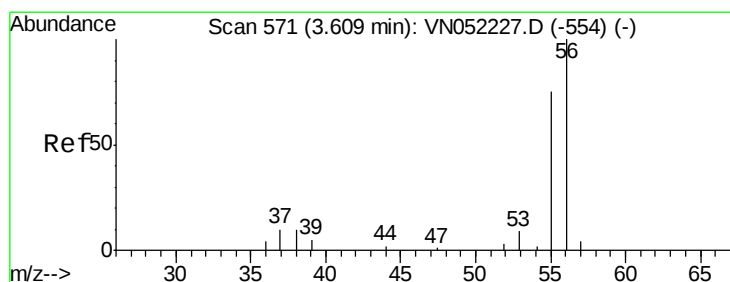
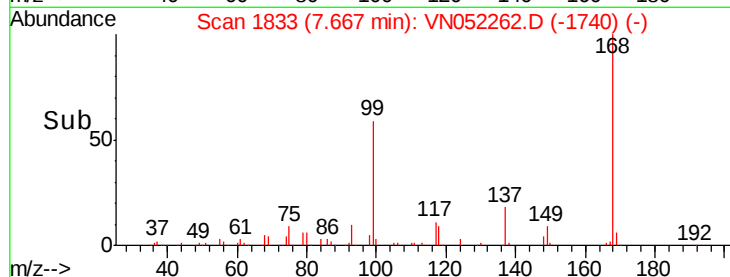
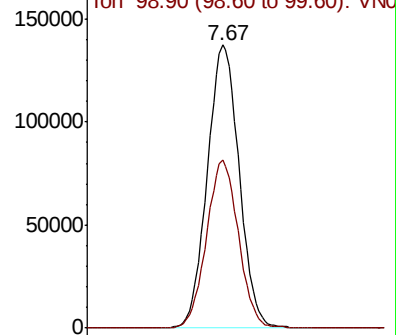
Ion Ratio Lower Upper

168 100

99 59.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN052227.D (-1813) (-)



#13

Acrolein

Concen: 34.178 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052262.D

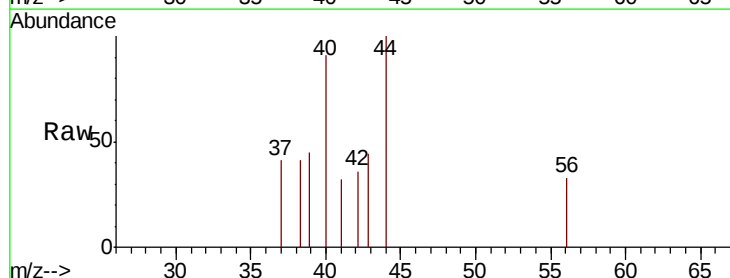
Acq: 12 Nov 2018 15:11

Tgt Ion: 56 Resp: 32

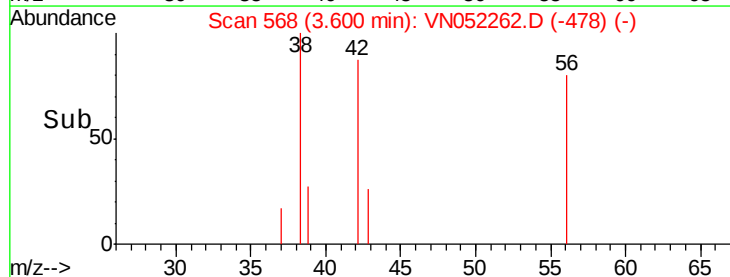
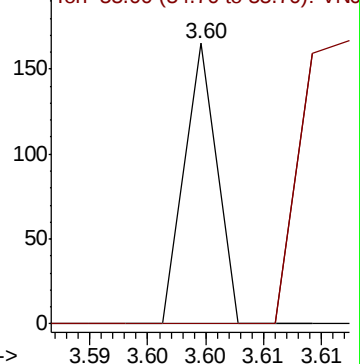
Ion Ratio Lower Upper

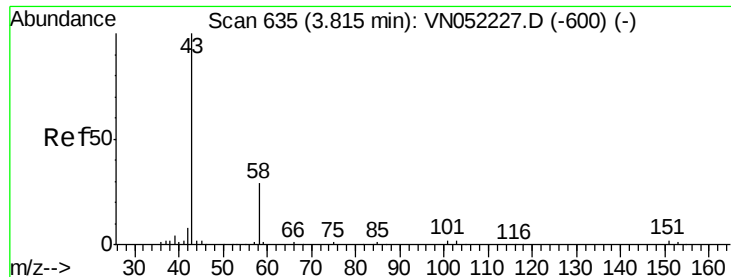
56 100

55 196.9 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052227.D (-554) (-)





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

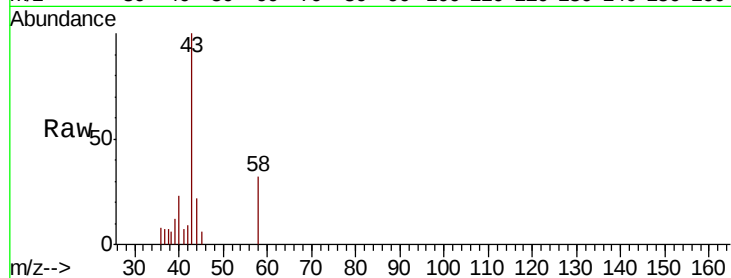
PB114678ZHE#06

Tot Ion: 43 Resp: 7506

Ion Ratio Lower Upper

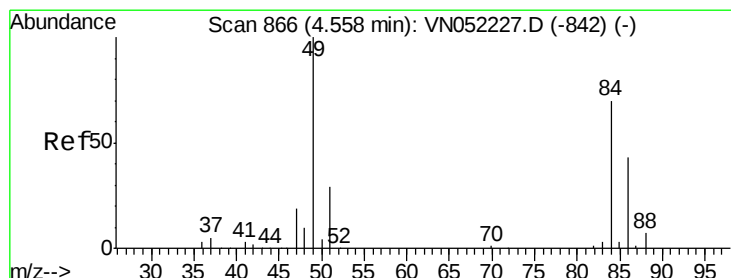
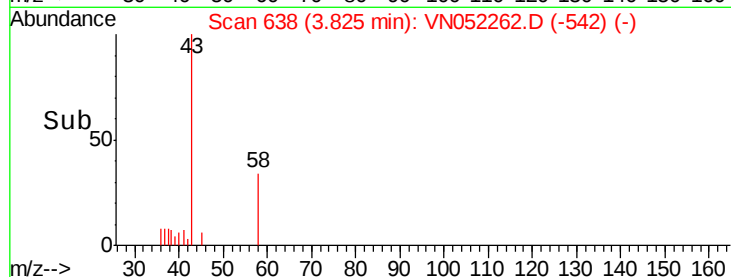
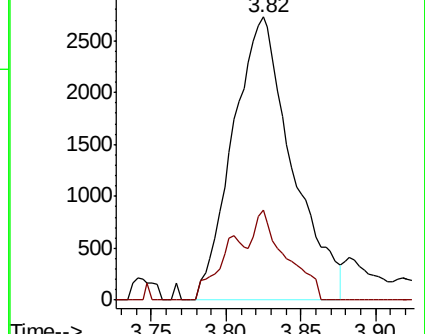
43 100

58 31.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 1.042 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.01 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Tgt Ion: 84 Resp: 4179

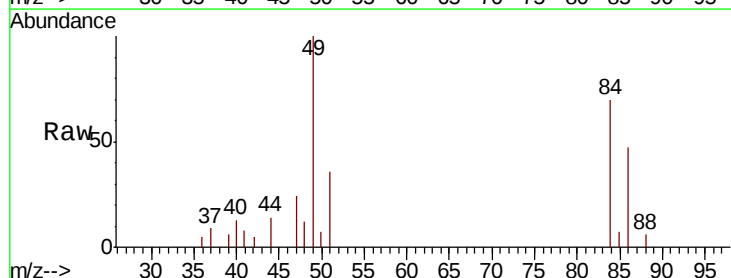
Ion Ratio Lower Upper

84 100

49 142.7 114.8 172.2

51 51.4 33.1 49.7#

86 60.7 49.7 74.5

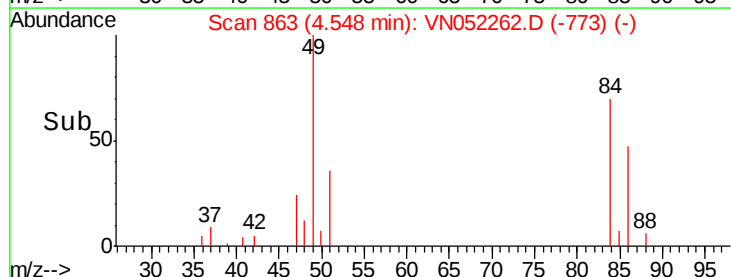
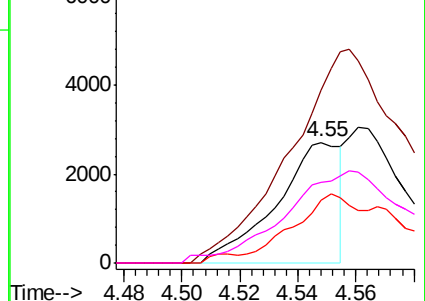


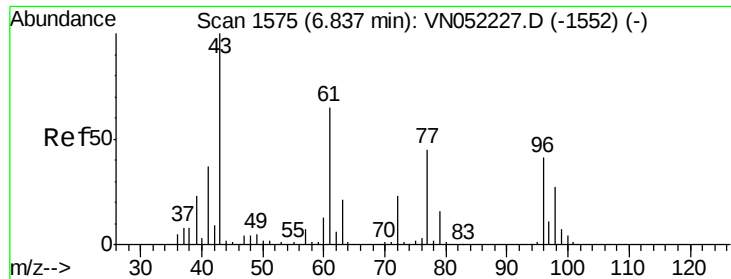
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

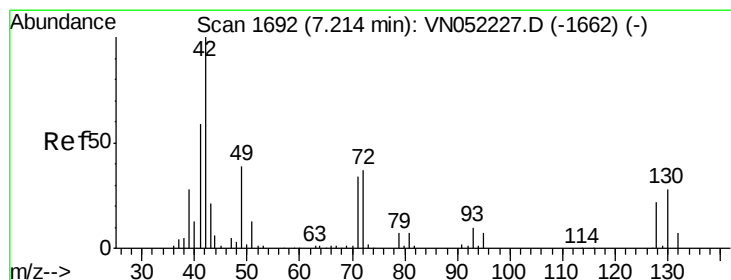
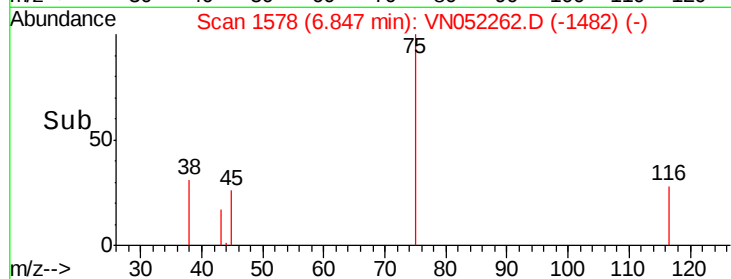
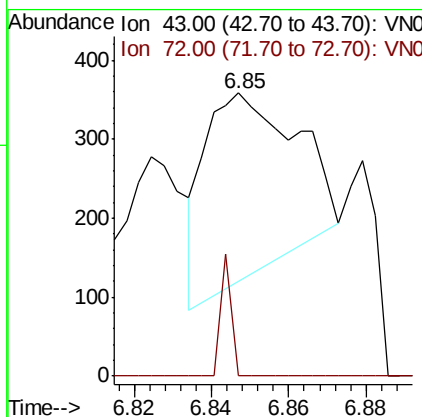
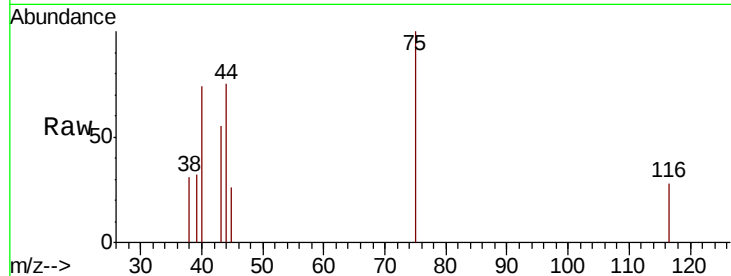




#25
2-Butanone
Concen: 0.205 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

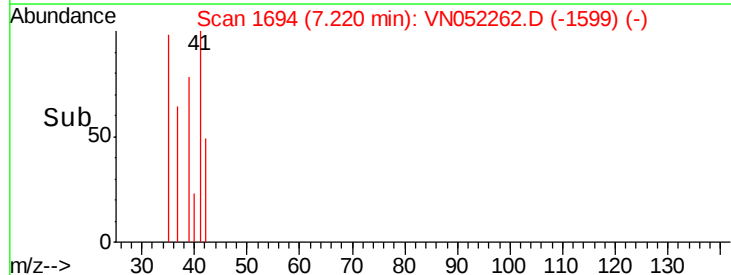
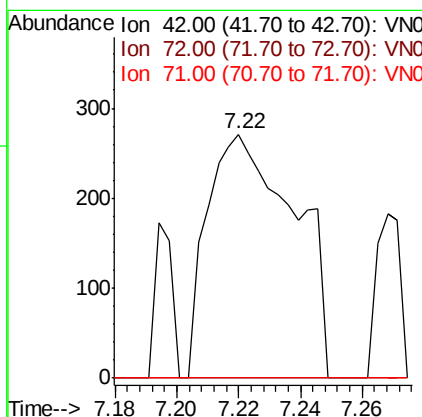
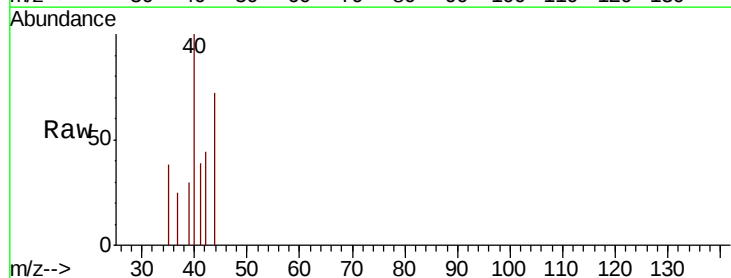
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#06

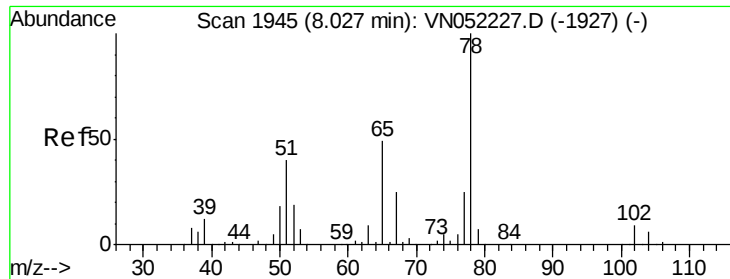
Tot Ion: 43.00 Resp: 385
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#29
Tetrahydrofuran
Concen: 0.434 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

Tgt Ion: 42.00 Resp: 530
Ion Ratio Lower Upper
42 100
72 0.0 28.6 43.0#
71 0.0 27.1 40.7#

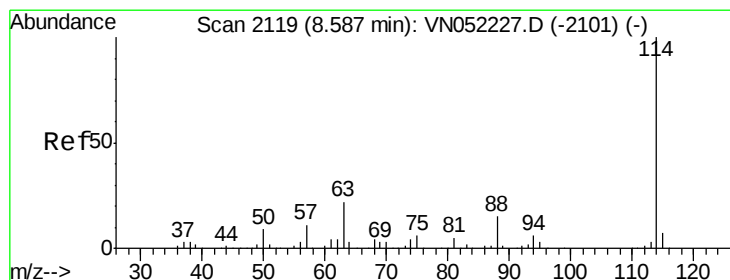
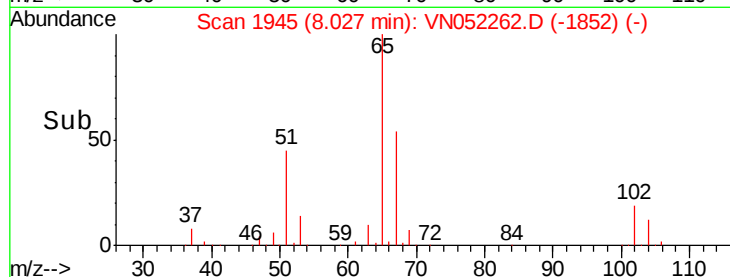
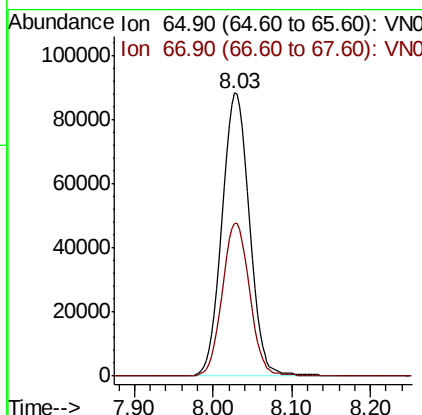
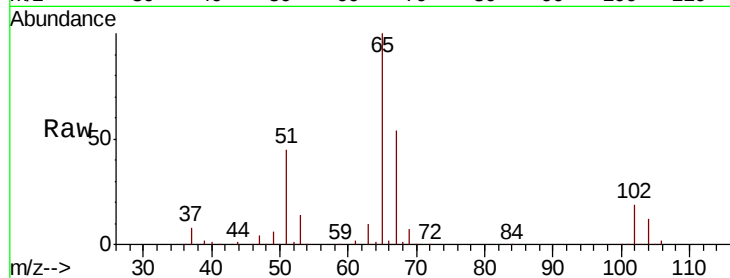




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052262.D
 Acq: 12 Nov 2018 15:11

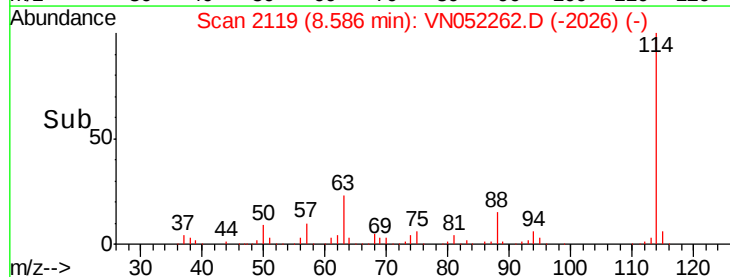
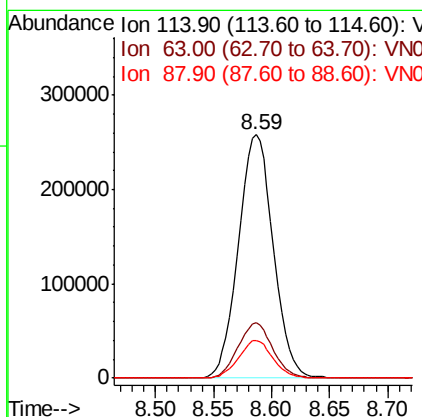
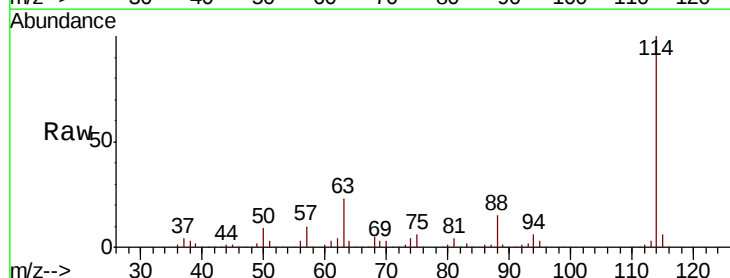
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#06

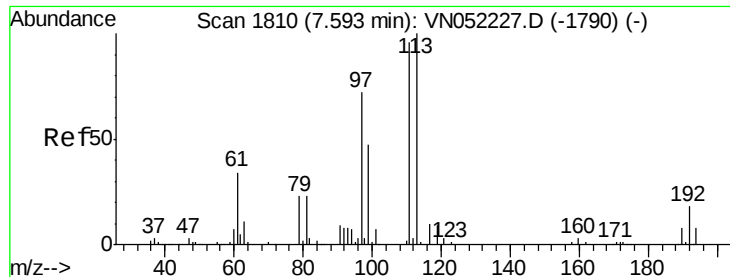
Tot Ion: 65 Resp: 213397
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052262.D
 Acq: 12 Nov 2018 15:11

Tgt Ion: 114 Resp: 538402
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.4
 88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#06

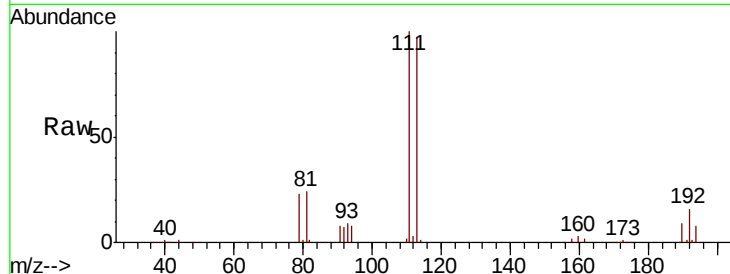
Tot Ion:113 Resp: 169179

Ion Ratio Lower Upper

113 100

111 103.5 80.2 120.4

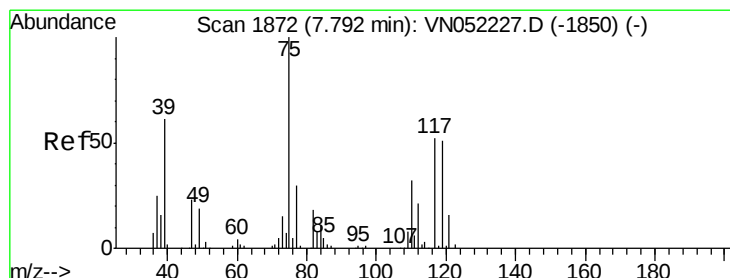
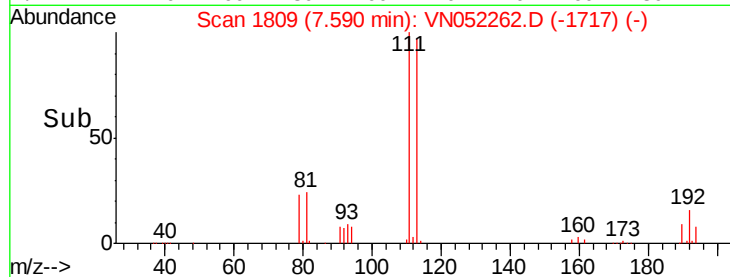
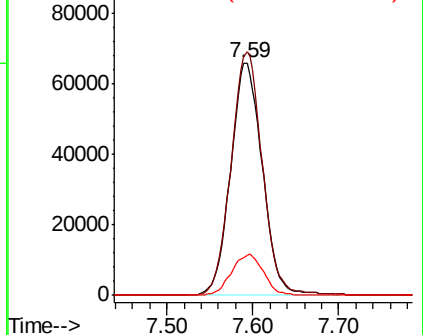
192 17.8 14.1 21.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.320 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

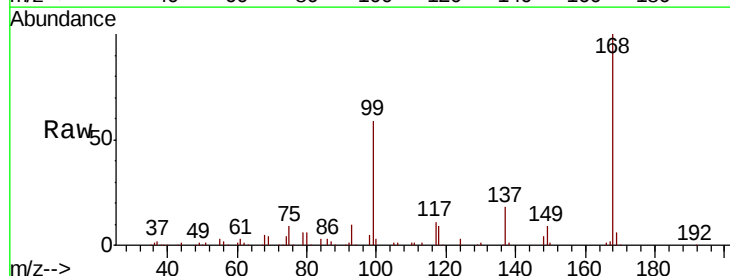
Tgt Ion: 75 Resp: 28913

Ion Ratio Lower Upper

75 100

110 8.7 16.4 49.4#

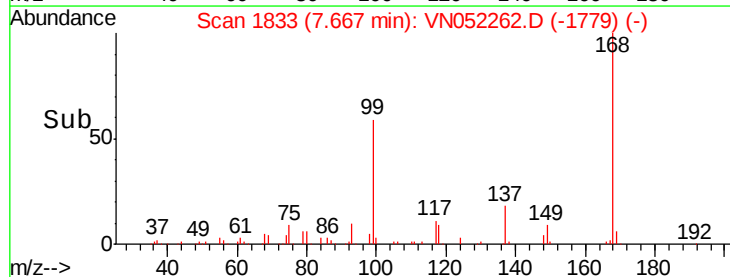
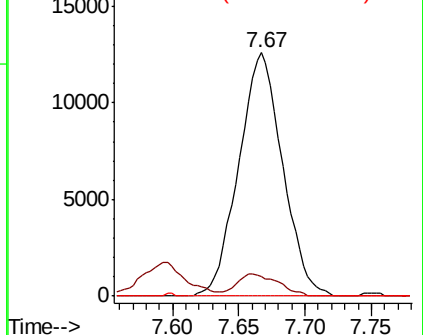
77 0.0 23.9 35.9#

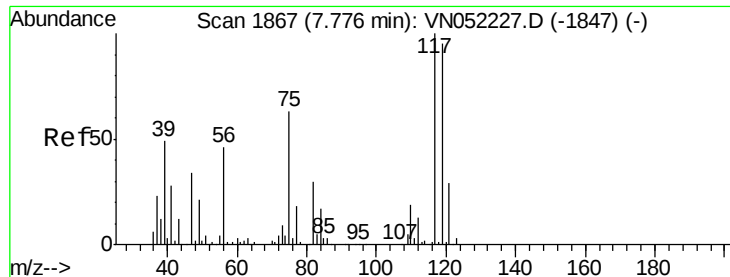


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.836 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#06

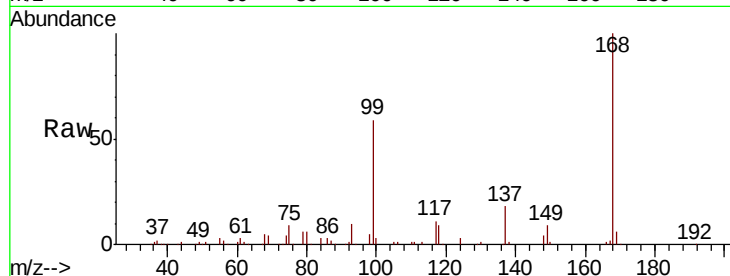
Tot Ion:117 Resp: 33668

Ion Ratio Lower Upper

117 100

119 3.7 75.8 113.8#

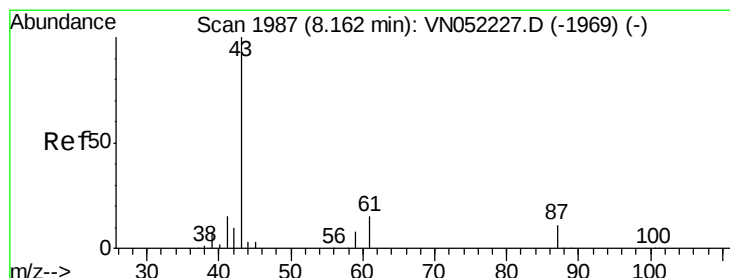
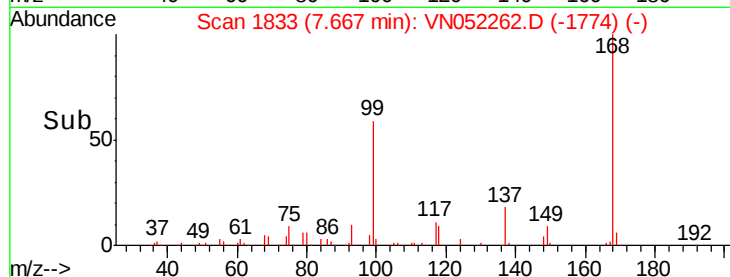
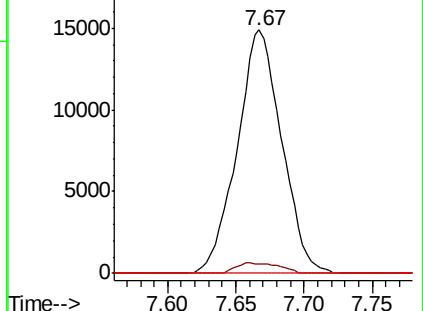
121 0.0 23.4 35.2#



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: 3.559 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

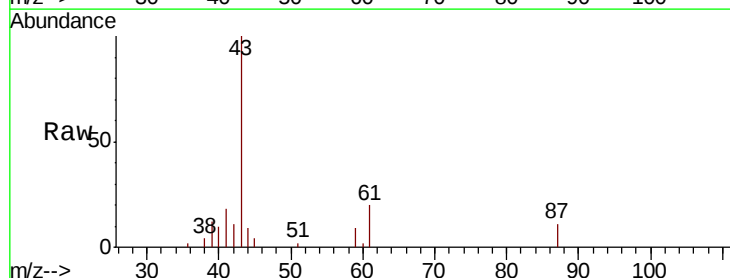
Tgt Ion: 43 Resp: 25359

Ion Ratio Lower Upper

43 100

61 18.1 14.2 21.4

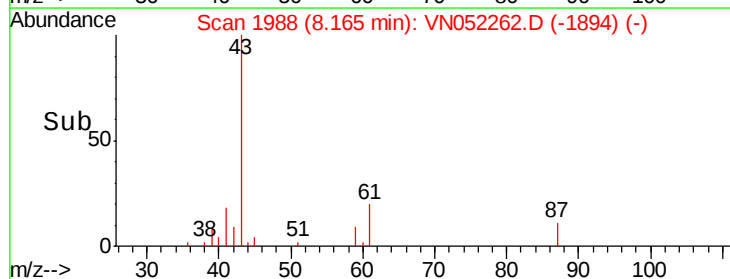
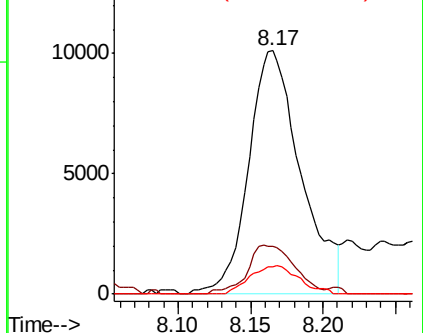
87 10.9 8.4 12.6

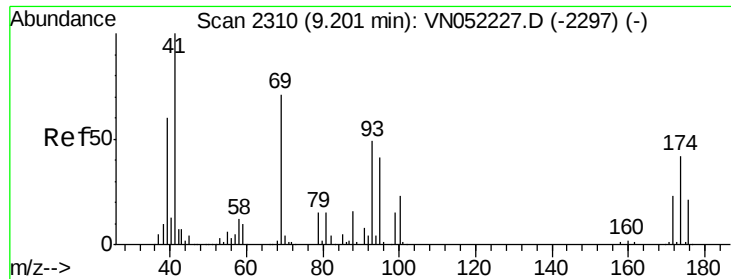


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

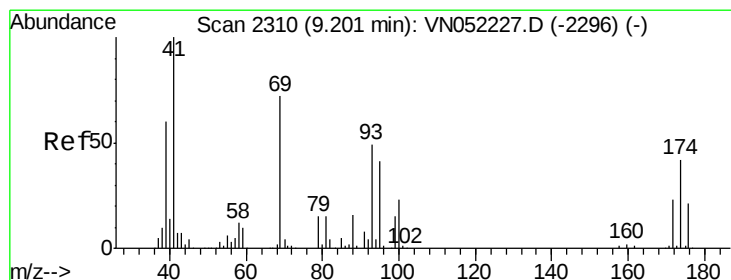
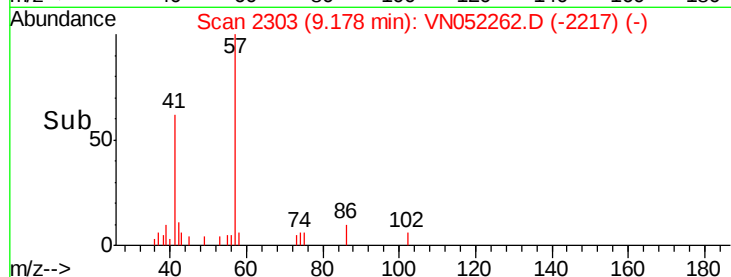
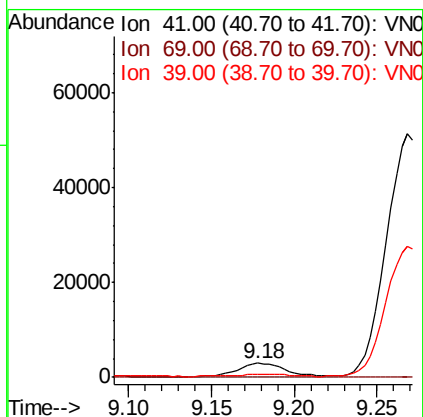
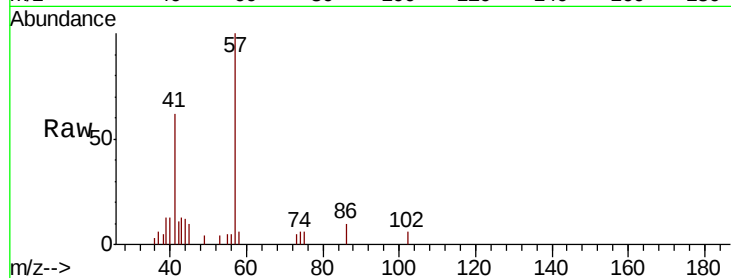




#48
Methyl methacrylate
Concen: 1.710 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

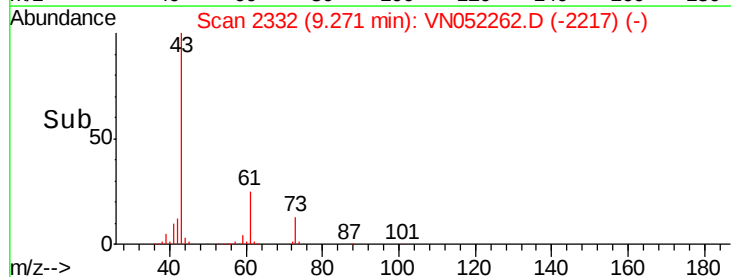
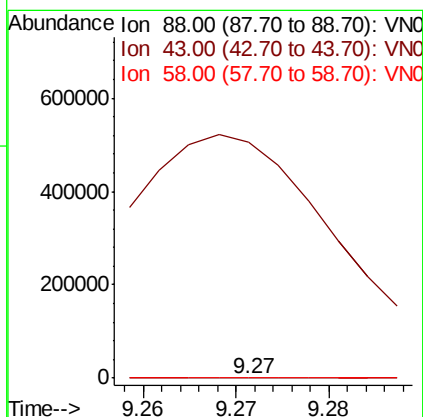
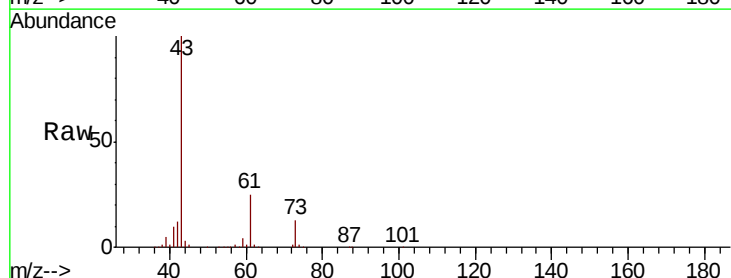
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#06

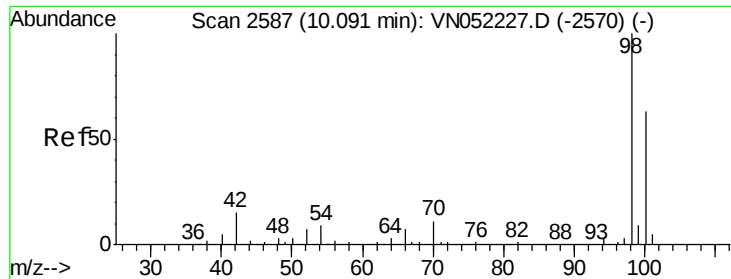
Tot Ion: 41 Resp: 6418
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#



#49
1,4-Dioxane
Concen: 2.253 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1404100.0 32.5 48.7#
58 6588.2 58.2 87.4#





#50

Toluene-d8

Concen: 2.253 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

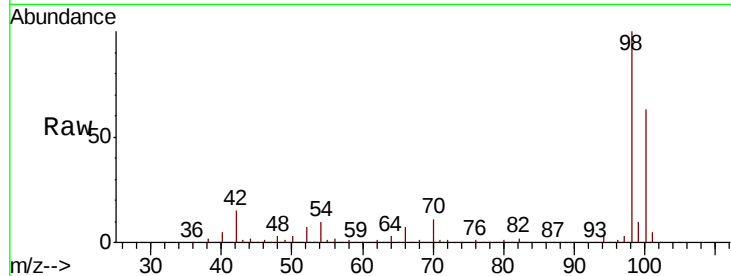
PB114678ZHE#06

Tot Ion: 98 Resp: 675068

Ion Ratio Lower Upper

98 100

100 62.9 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

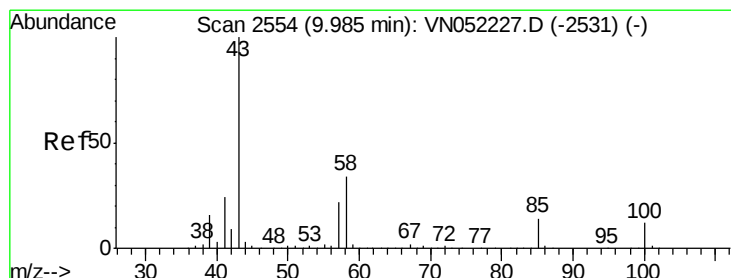
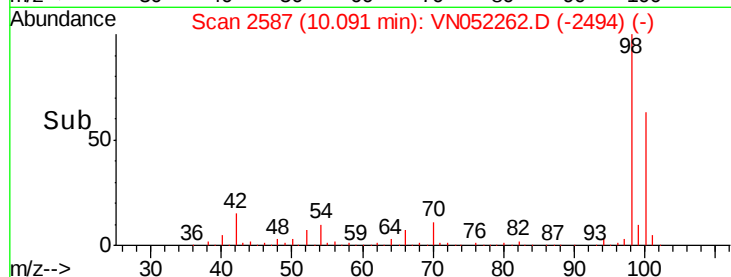
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.521 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052262.D

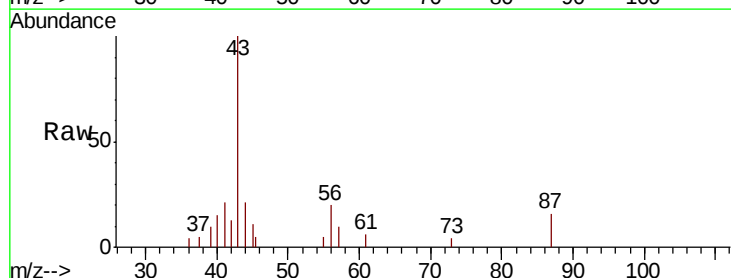
Acq: 12 Nov 2018 15:11

Tgt Ion: 43 Resp: 5984

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.03

4000

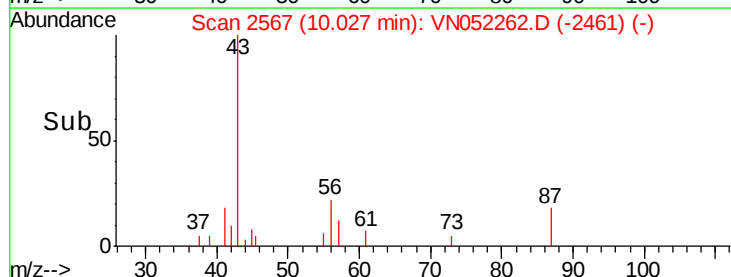
3000

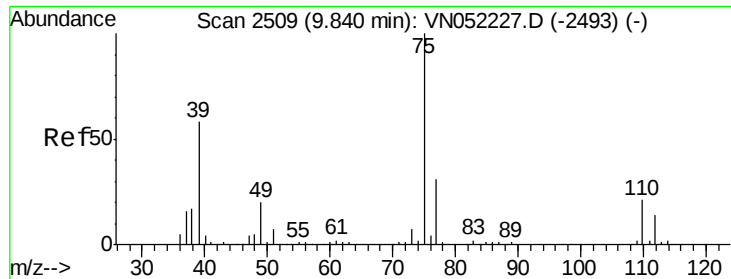
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.962 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#06

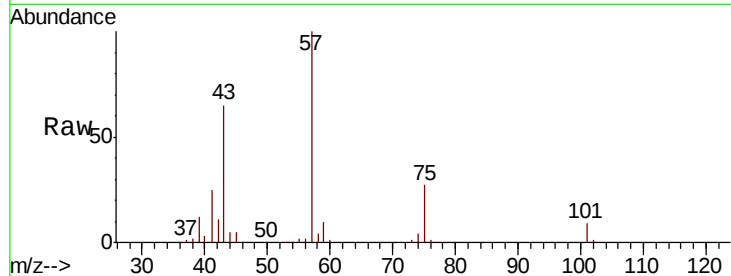
Tot Ion: 75 Resp: 35926

Ion Ratio Lower Upper

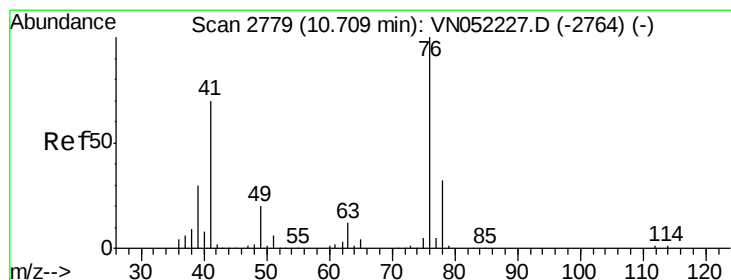
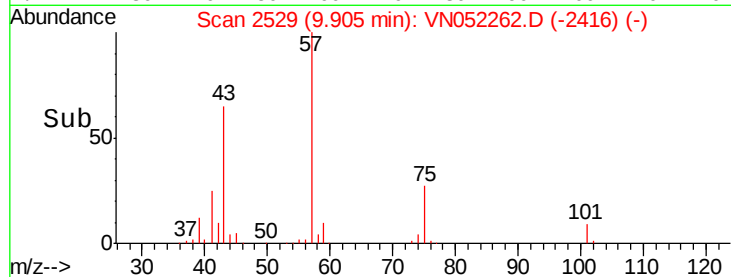
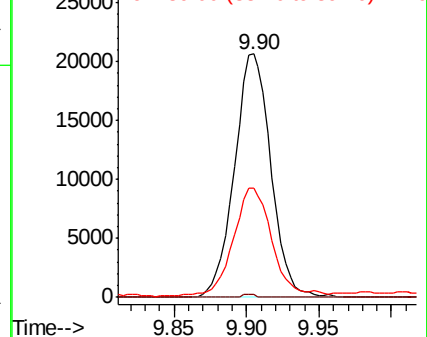
75 100

77 1.0 25.2 37.8#

39 43.5 46.6 70.0#



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



#57

1,3-Dichloropropane

Concen: 1.202 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052262.D

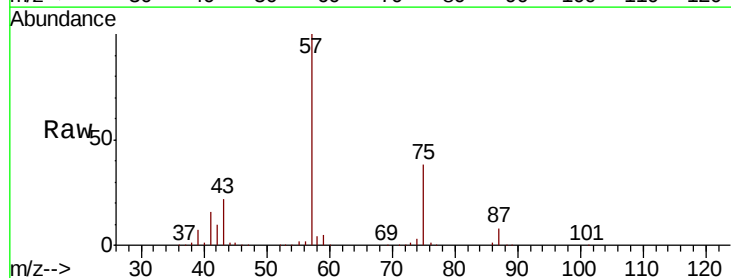
Acq: 12 Nov 2018 15:11

Tgt Ion: 76 Resp: 7297

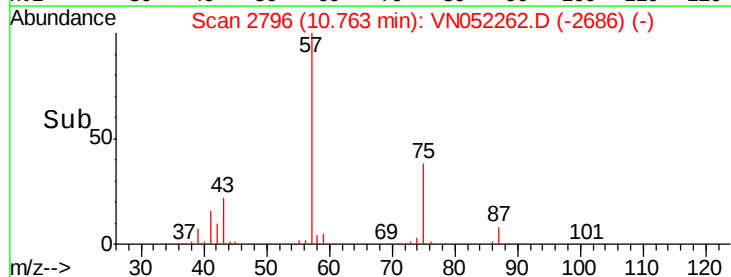
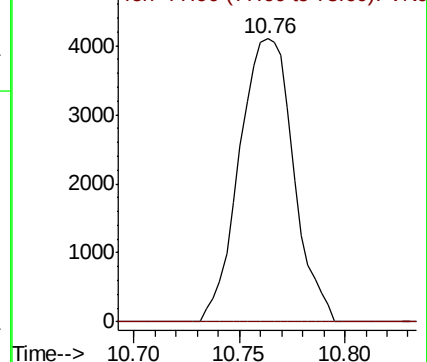
Ion Ratio Lower Upper

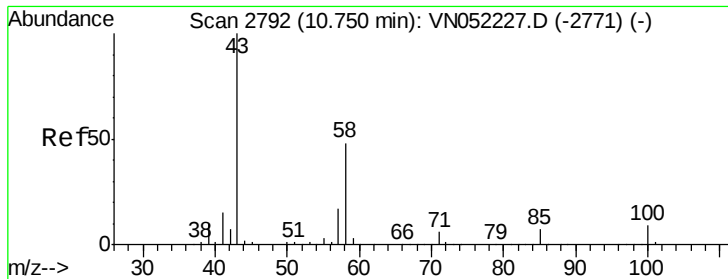
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

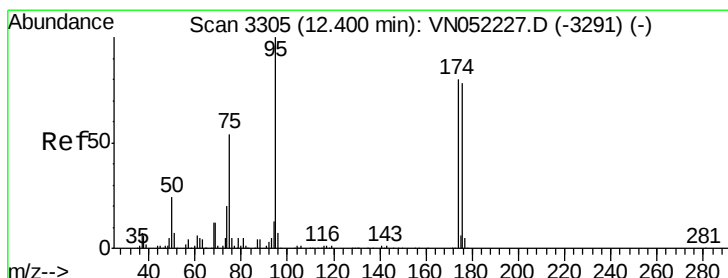
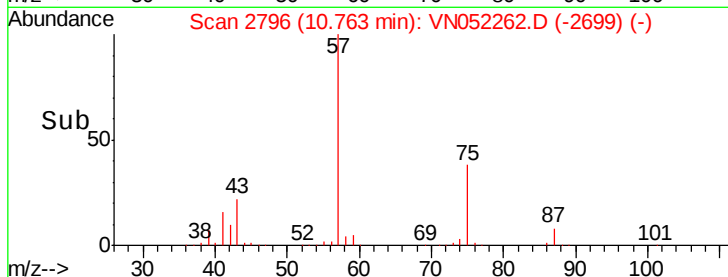
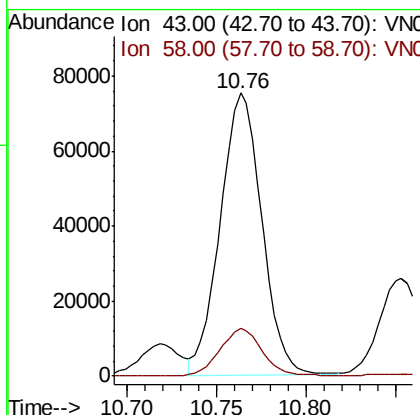
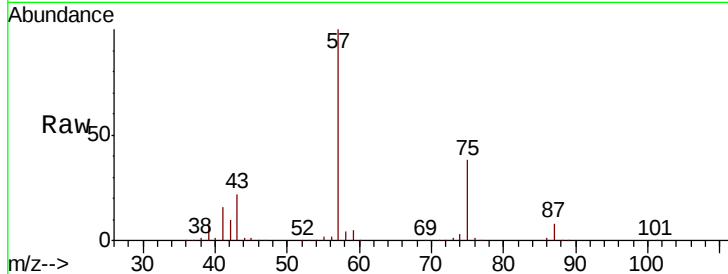




#59
2-Hexanone
Concen: 44.146 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

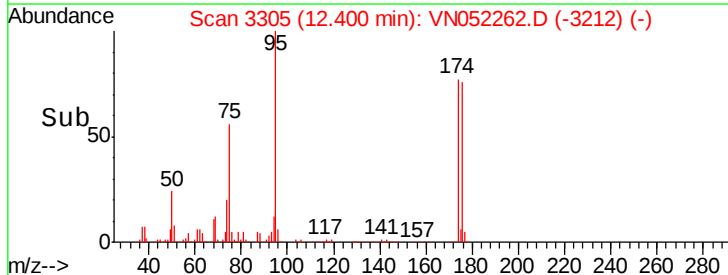
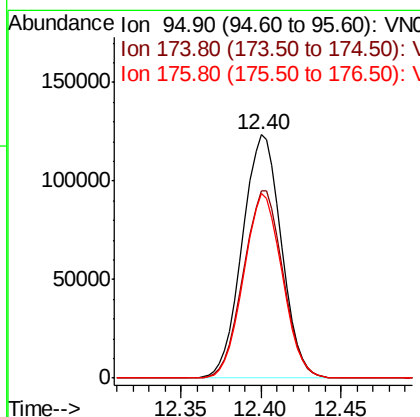
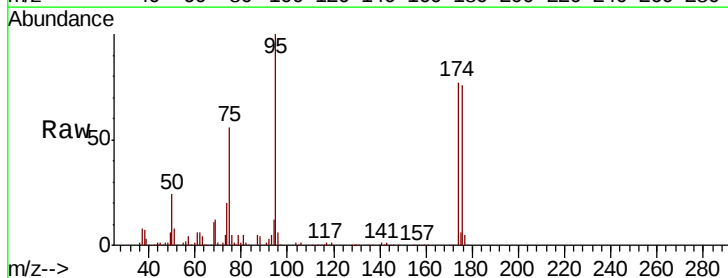
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#06

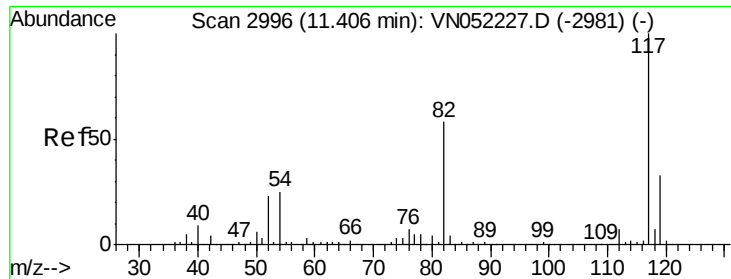
Tot Ion: 43 Resp: 121932
Ion Ratio Lower Upper
43 100
58 17.3 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

Tgt Ion: 95 Resp: 205431
Ion Ratio Lower Upper
95 100
174 78.3 0.0 159.4
176 75.3 0.0 157.8

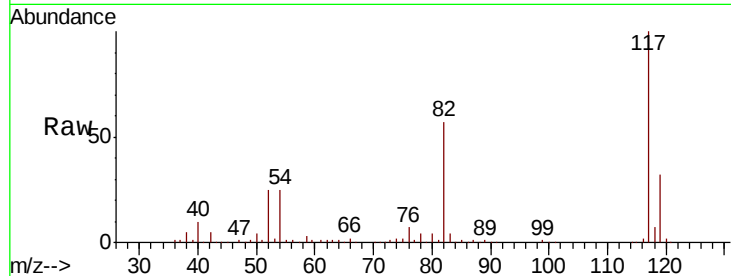




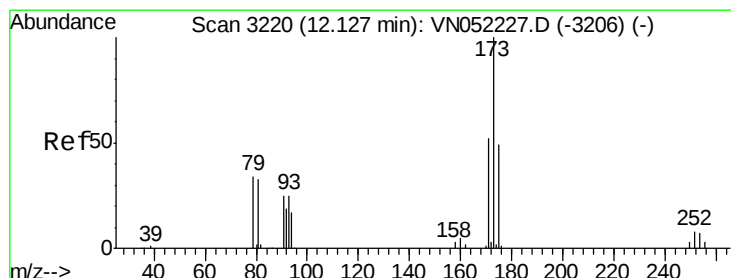
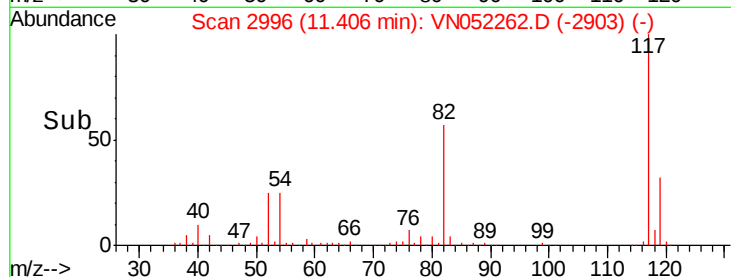
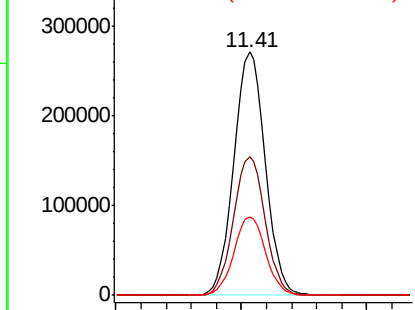
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#06

Tot Ion:117 Resp: 472625
Ion Ratio Lower Upper
117 100
82 56.9 46.2 69.2
119 32.1 26.2 39.4

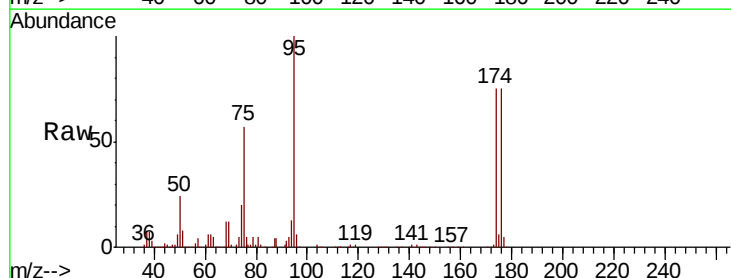


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

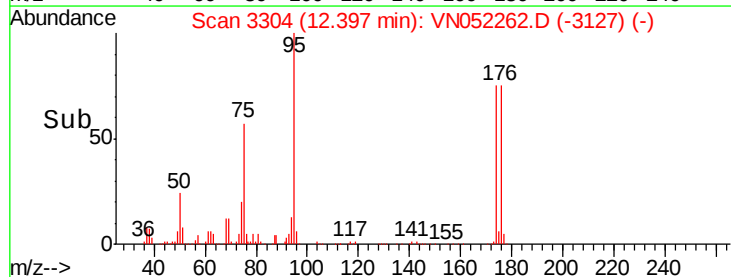
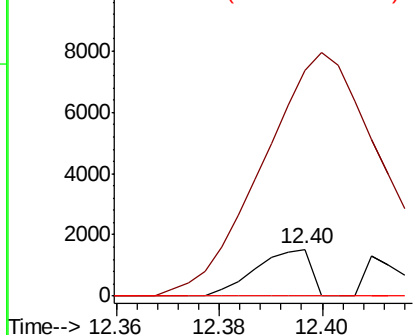


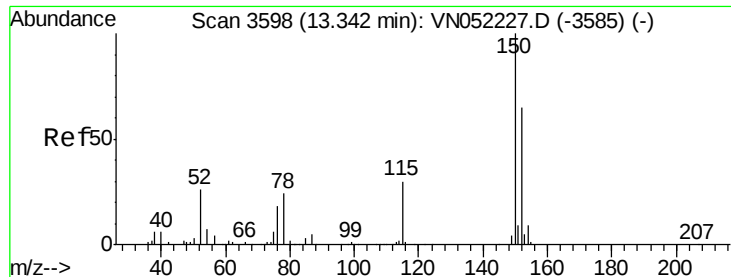
#71
Bromoform
Concen: 0.559 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN052262.D
Acq: 12 Nov 2018 15:11

Tgt Ion:173 Resp: 1132
Ion Ratio Lower Upper
173 100
175 1006.7 24.5 73.5#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#06

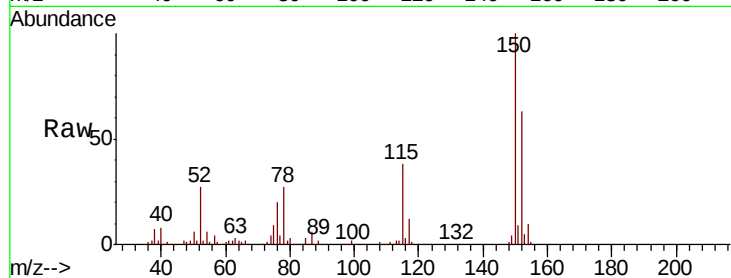
Tot Ion:152 Resp: 174433

Ion Ratio Lower Upper

152 100

115 60.0 29.8 89.5

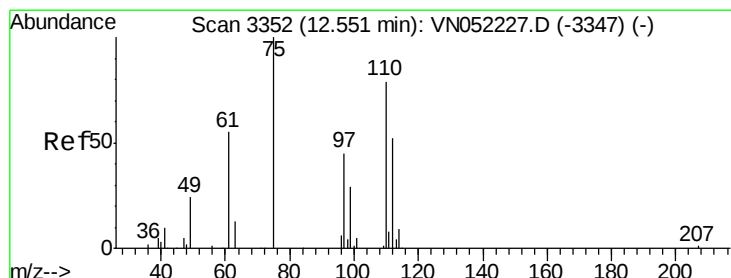
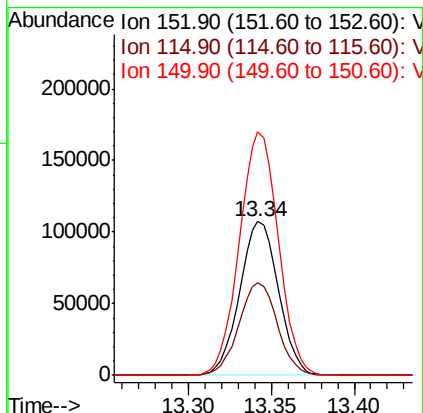
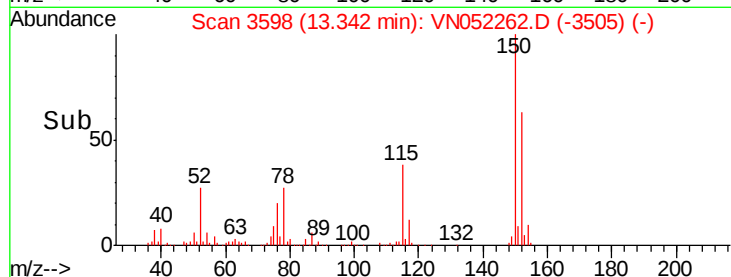
150 158.9 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 36.491 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052262.D

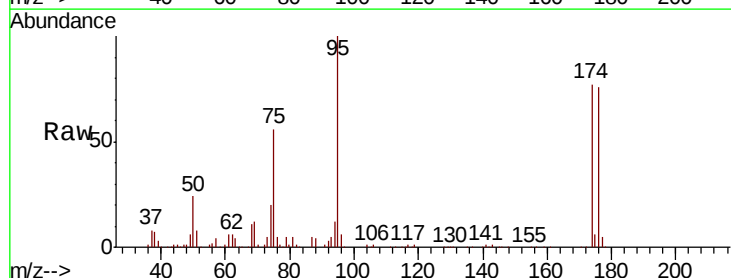
Acq: 12 Nov 2018 15:11

Tgt Ion: 75 Resp: 112618

Ion Ratio Lower Upper

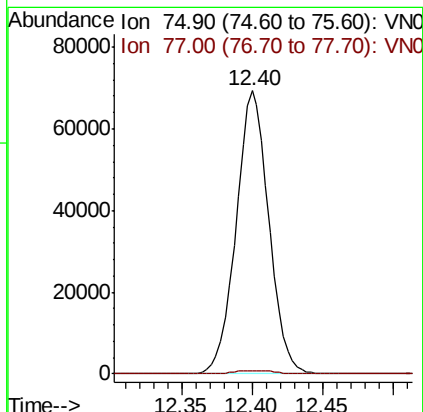
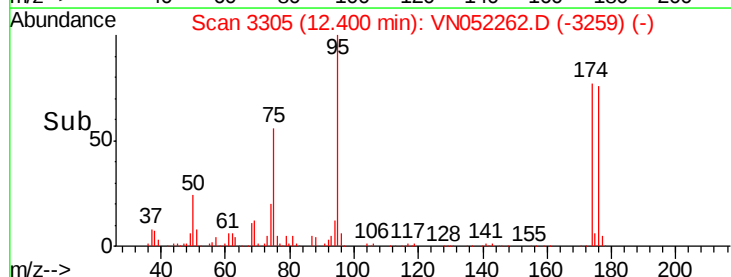
75 100

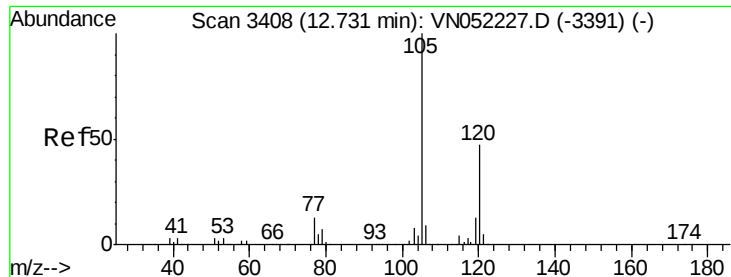
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.524 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

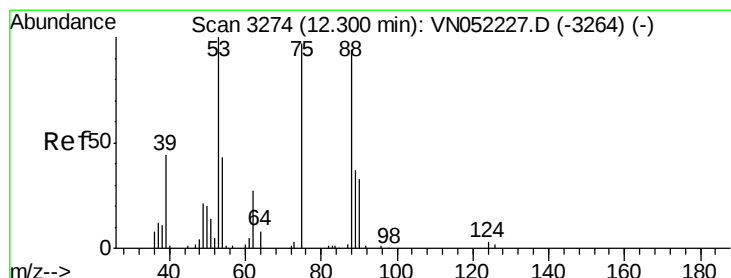
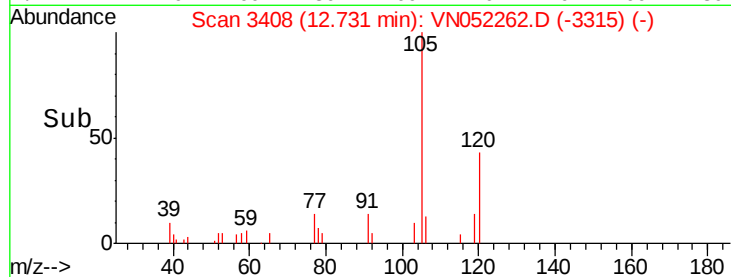
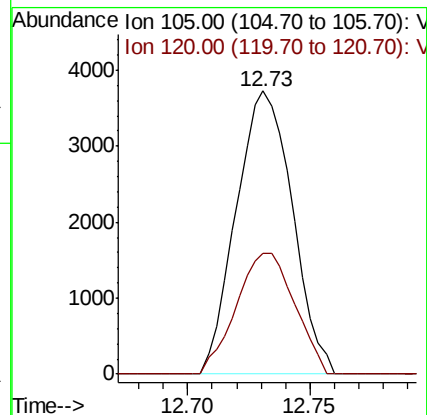
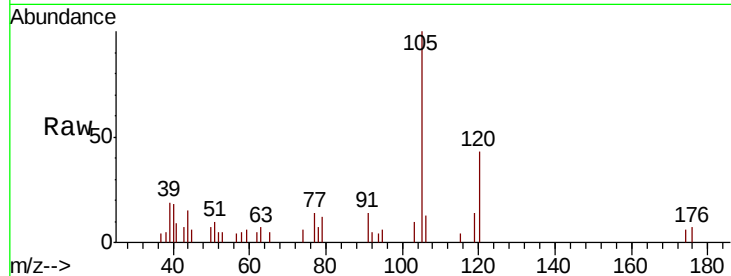
PB114678ZHE#06

Tot Ion:105 Resp: 5943

Ion Ratio Lower Upper

105 100

120 44.4 23.9 71.8



#81

trans-1,4-Dichloro-2-butene

Concen: 124.560 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052262.D

Acq: 12 Nov 2018 15:11

Tgt Ion: 75 Resp: 112618

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#

