

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052274.D
 Acq On : 12 Nov 2018 20:31
 Operator : MD\SY
 Sample : PB114678ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#18

Quant Time: Nov 13 00:17:49 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	322066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	546253	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	163053	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	216608	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
35) Dibromofluoromethane	7.59	113	170909	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
50) Toluene-d8	10.09	98	680932	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.40	95	196947	43.98	ug/l	0.00
Spiked Amount			Recovery	=	87.96%	

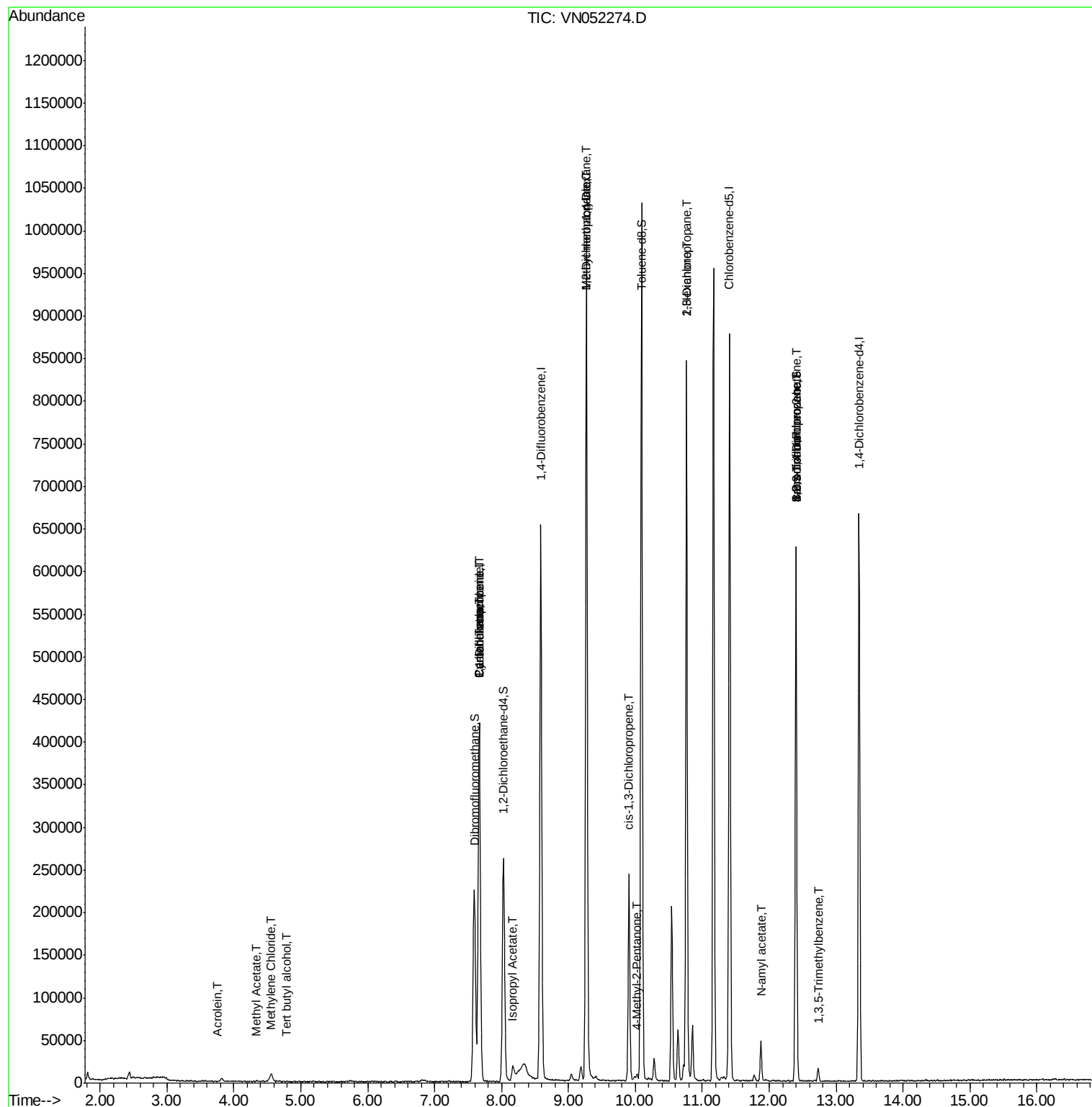
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	72	0.319	ug/l #	71
13) Acrolein	3.74	56	33	34.181	ug/l #	12
16) Acetone	3.82	43	6607	Below Cal	#	88
18) Methyl Acetate	4.33	43	834	0.227	ug/l #	64
20) Methylene Chloride	4.55	84	5717	1.424	ug/l	87
31) Cyclohexane	7.67	56	8928	0.630	ug/l #	17
36) 1,1-Dichloropropene	7.67	75	29754	5.396	ug/l #	52
38) Carbon Tetrachloride	7.66	117	32319	6.468	ug/l #	17
43) Isopropyl Acetate	8.17	43	25057	3.467	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1218	0.276	ug/l #	44
48) Methyl methacrylate	9.27	41	99965	26.247	ug/l #	50
49) 1,4-Dioxane	9.26	88	33	1.078	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6014	1.507	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	37884	6.196	ug/l #	72
57) 1,3-Dichloropropane	10.77	76	7568	1.228	ug/l #	43
59) 2-Hexanone	10.76	43	132874	47.416	ug/l #	55
71) Bromoform	12.40	173	2531	1.263	ug/l #	1
74) N-amyl acetate	11.87	43	15631	3.230	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	111474	38.641	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7748	0.731	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	111474	131.900	ug/l #	8

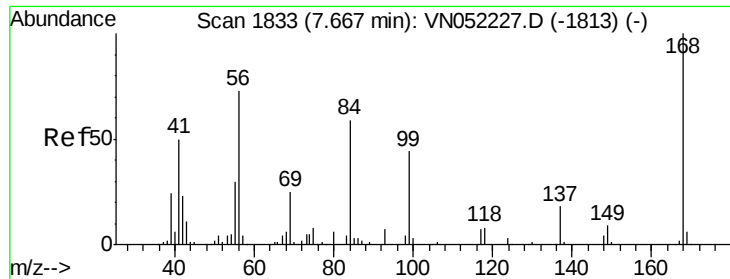
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

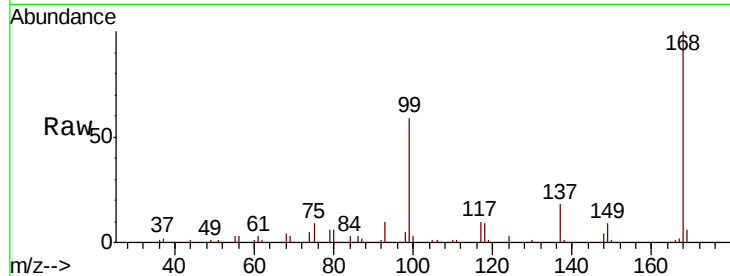
PB114678ZHE#18

Tot Ion:168 Resp: 322066

Ion Ratio Lower Upper

168 100

99 58.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

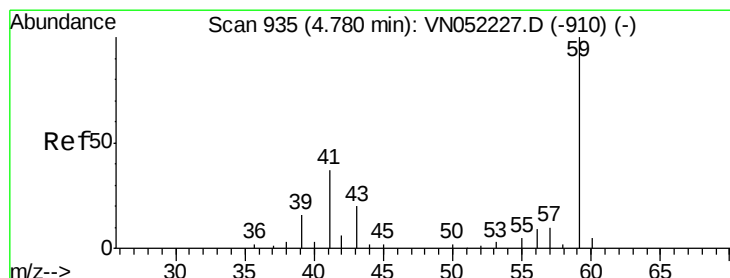
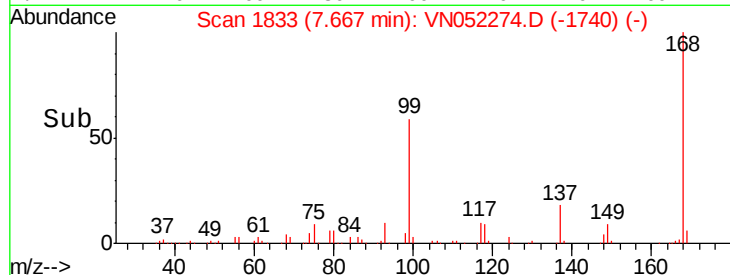
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.319 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.01 min

Lab File: VN052274.D

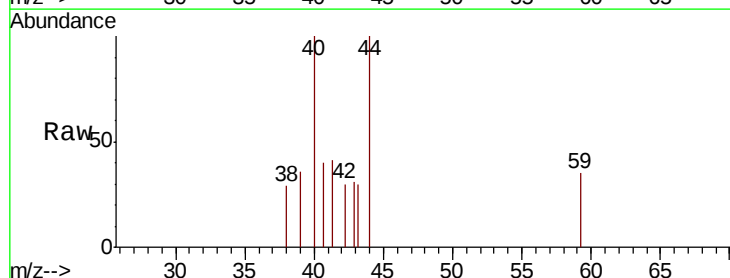
Acq: 12 Nov 2018 20:31

Tgt Ion: 59 Resp: 72

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.79

200

150

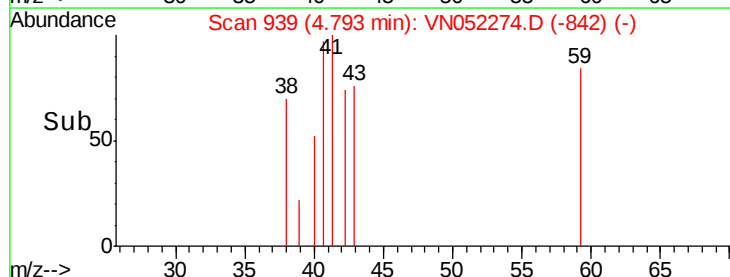
100

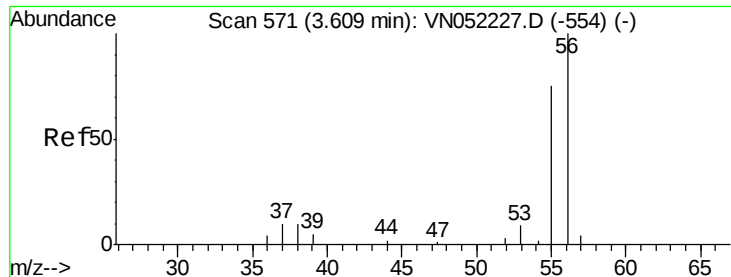
50

0

4.78 4.79 4.80

Time-->





#13

Acrolein

Concen: 34.181 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.13 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

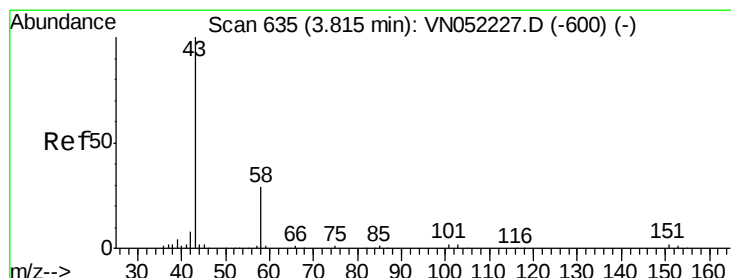
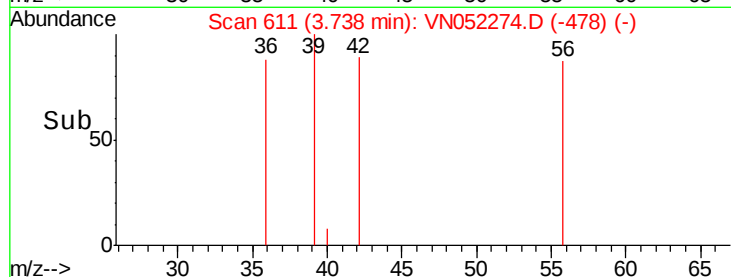
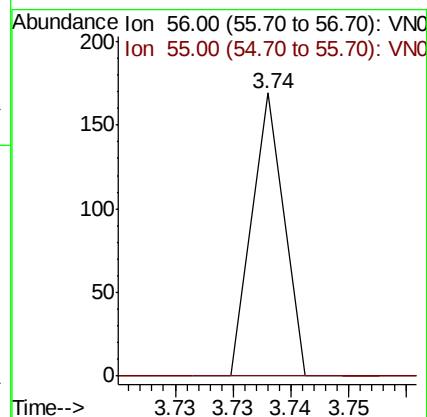
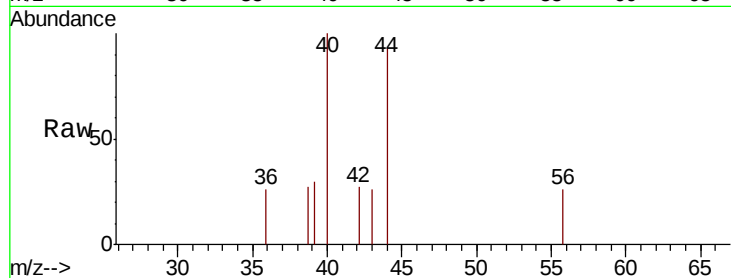
PB114678ZHE#18

Tot Ion: 56 Resp: 33

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052274.D

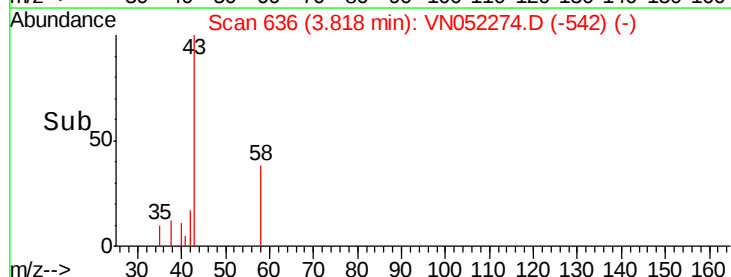
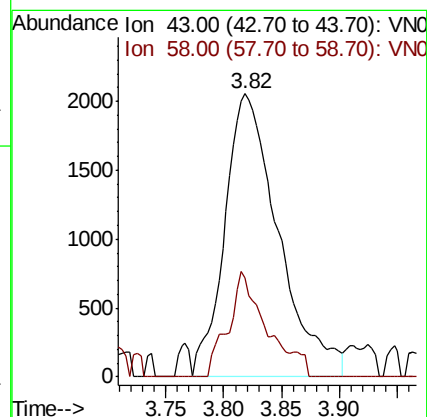
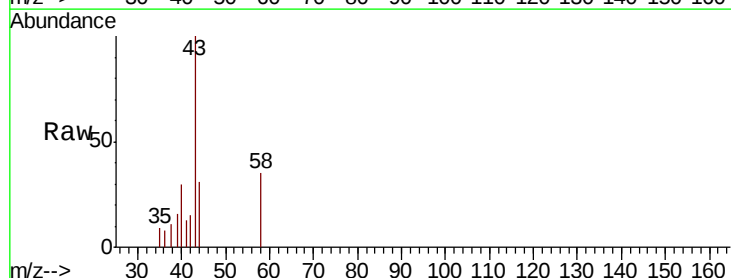
Acq: 12 Nov 2018 20:31

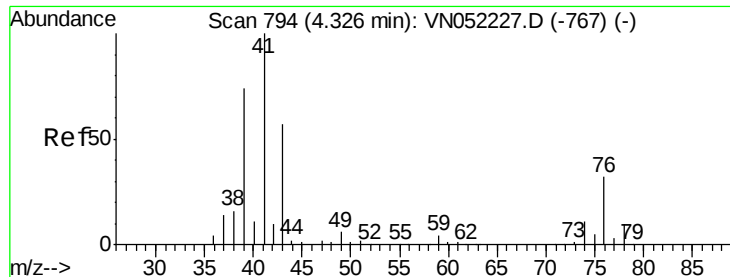
Tgt Ion: 43 Resp: 6607

Ion Ratio Lower Upper

43 100

58 35.2 23.0 34.6#

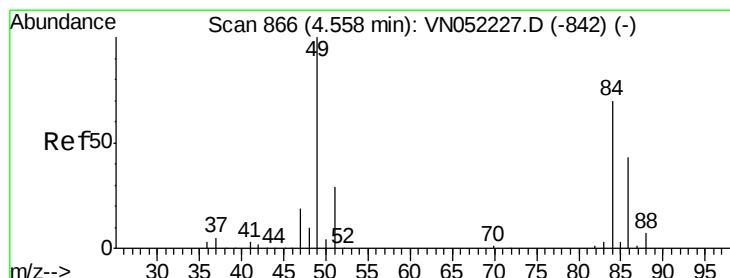
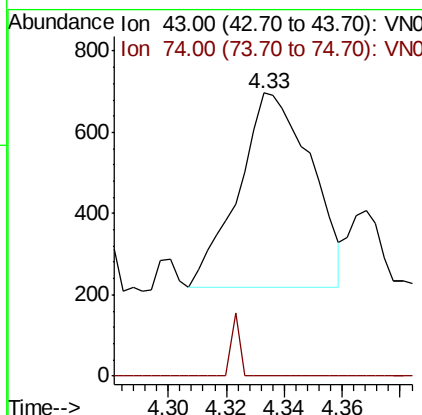
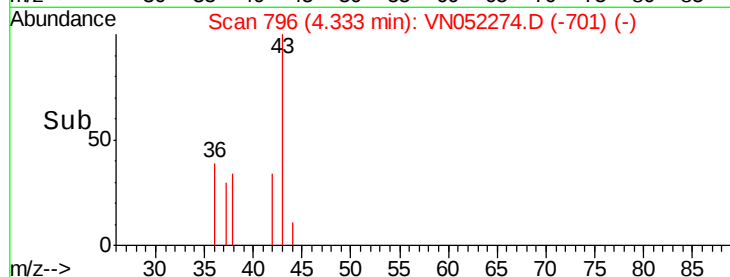
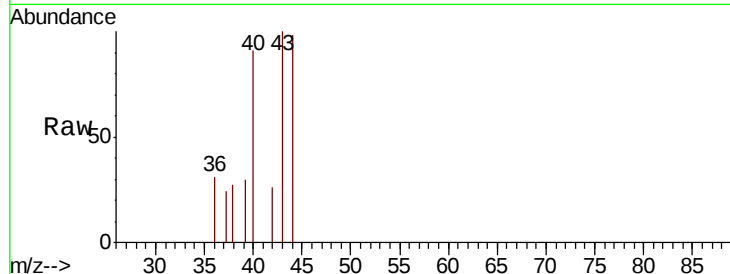




#18
Methyl Acetate
Concen: 0.227 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

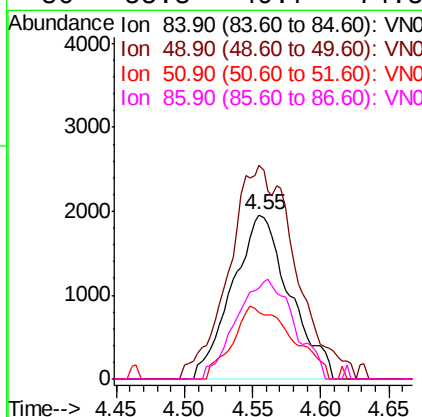
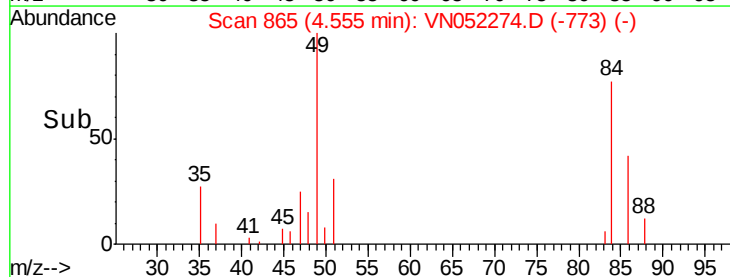
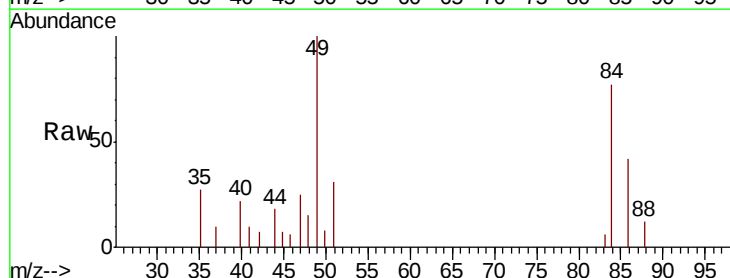
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#18

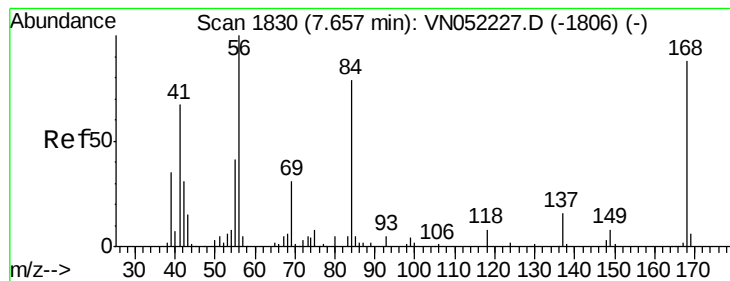
Tot Ion: 43 Resp: 834
Ion Ratio Lower Upper
43 100
74 3.6 16.2 24.2#



#20
Methylene Chloride
Concen: 1.424 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

Tgt Ion: 84 Resp: 5717
Ion Ratio Lower Upper
84 100
49 120.5 114.8 172.2
51 40.7 33.1 49.7
86 55.3 49.7 74.5





#31

Cyclohexane

Concen: 0.630 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#18

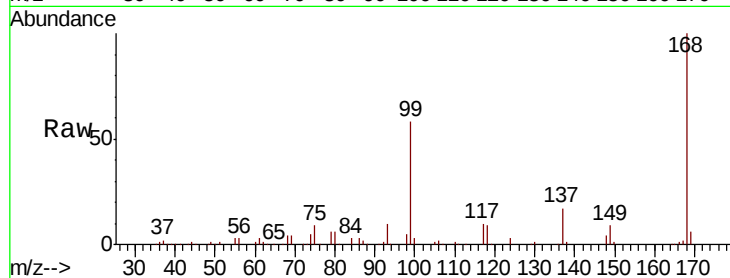
Tot Ion: 56 Resp: 8928

Ion Ratio Lower Upper

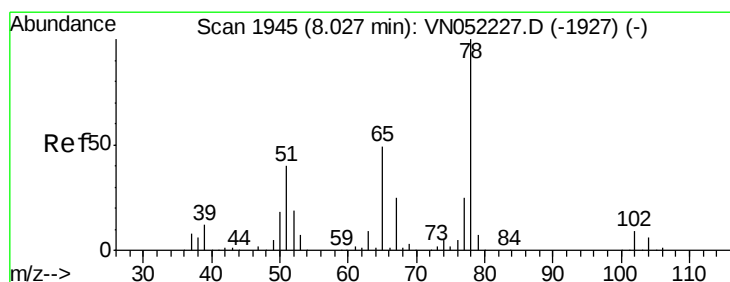
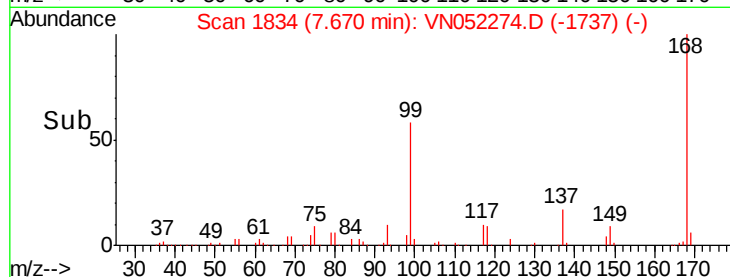
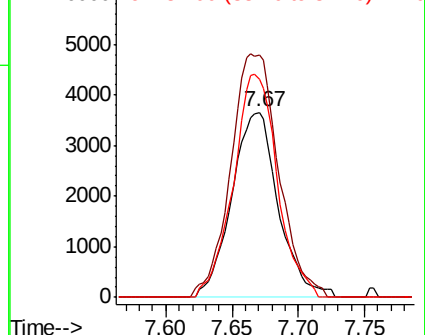
56 100

69 131.0 24.8 37.2#

84 118.1 63.1 94.7#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052274.D

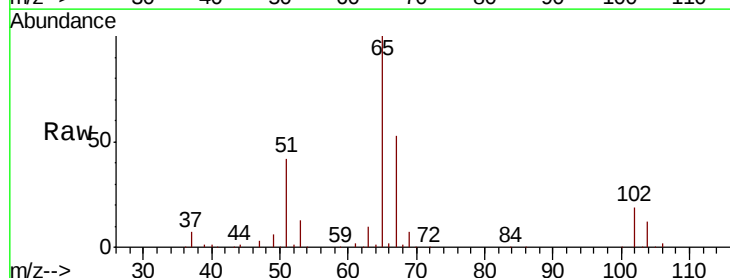
Acq: 12 Nov 2018 20:31

Tgt Ion: 65 Resp: 216608

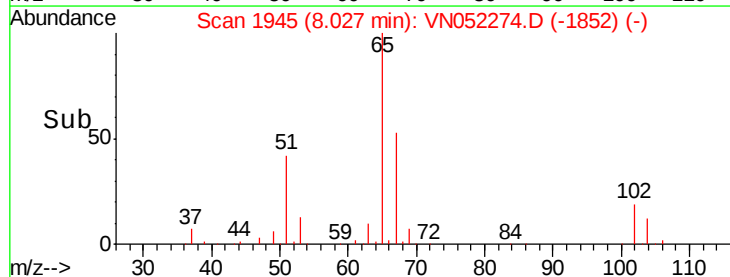
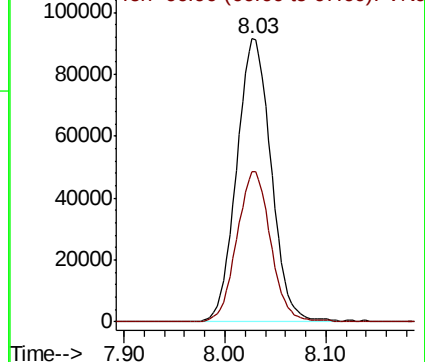
Ion Ratio Lower Upper

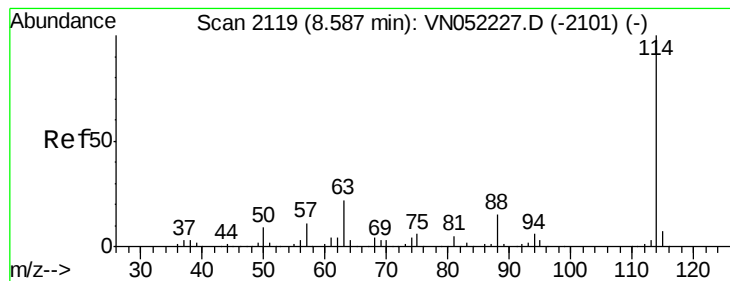
65 100

67 52.2 0.0 106.6



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: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

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PB114678ZHE#18

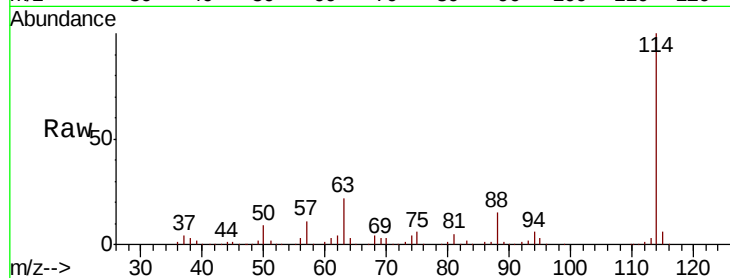
Tot Ion:114 Resp: 546253

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.4

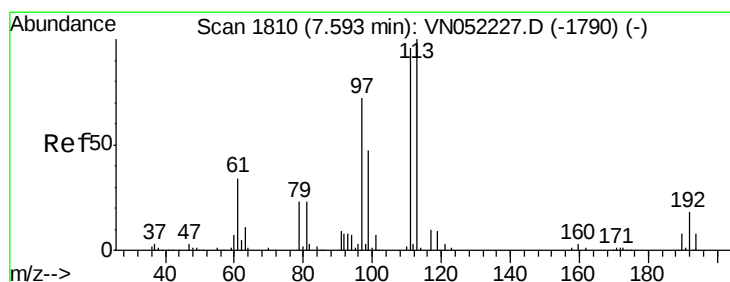
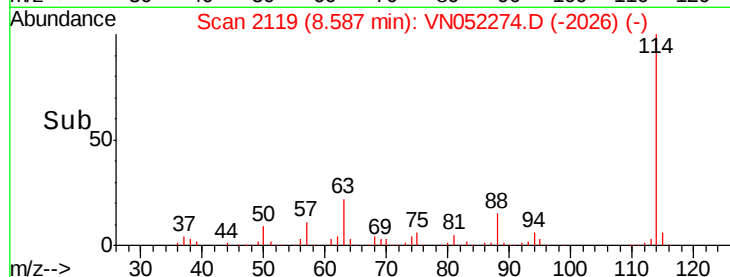
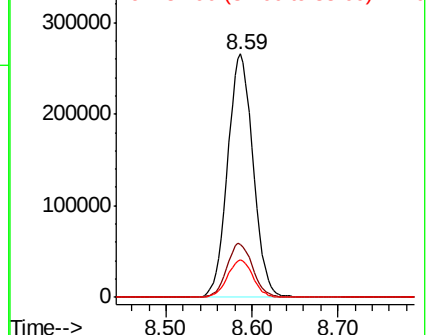
88 15.5 0.0 30.2



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

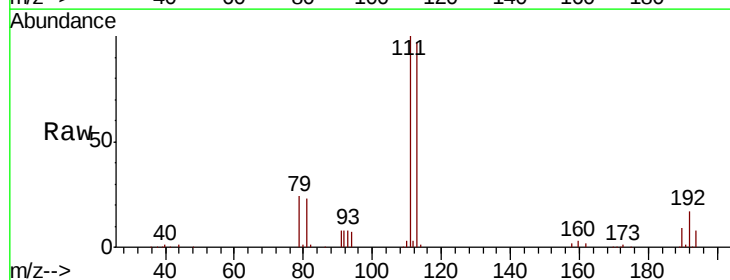
Tgt Ion:113 Resp: 170909

Ion Ratio Lower Upper

113 100

111 102.7 80.2 120.4

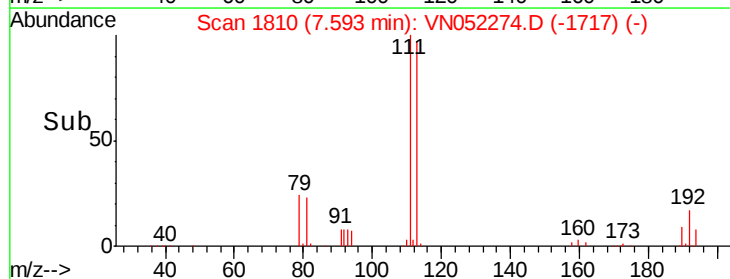
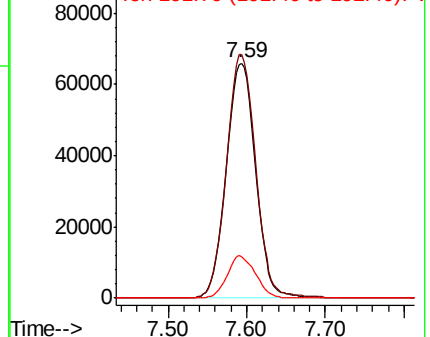
192 17.2 14.1 21.1

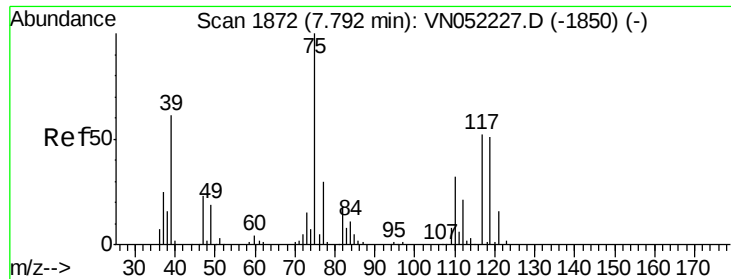


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

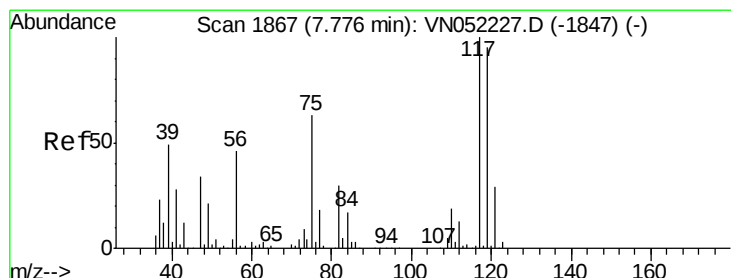
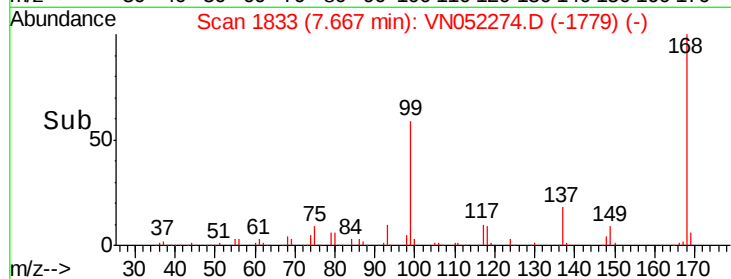
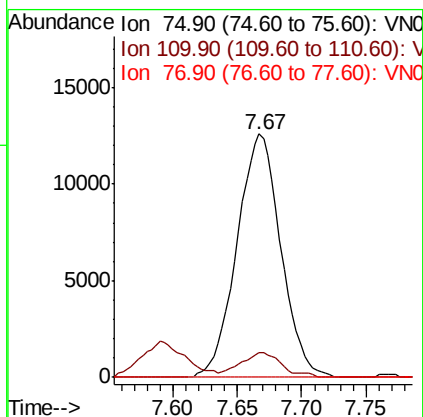
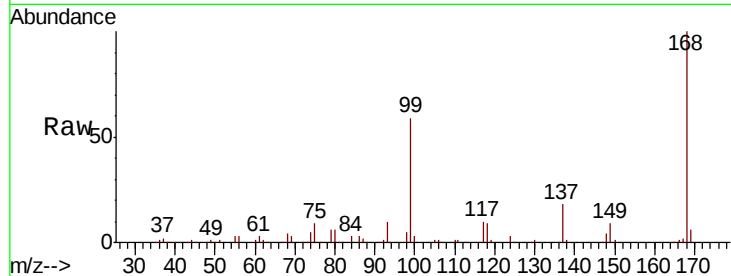




#36
 1,1-Dichloropropene
 Concen: 5.396 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

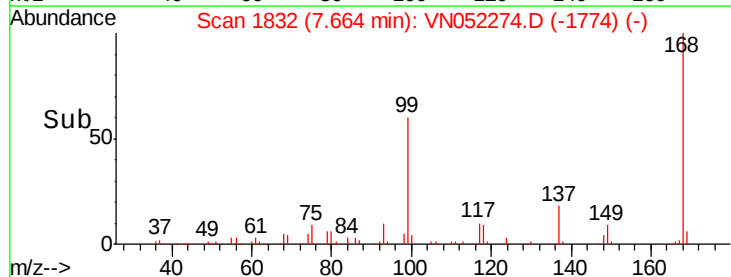
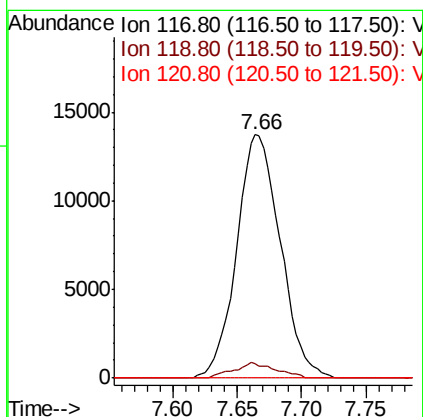
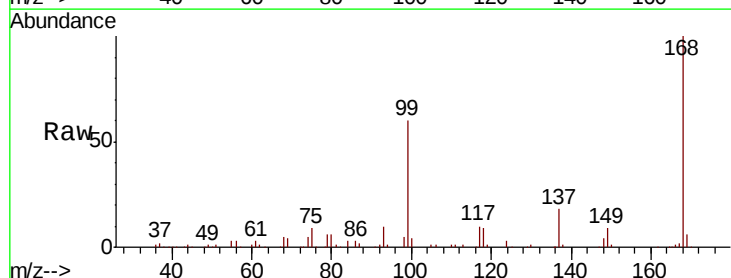
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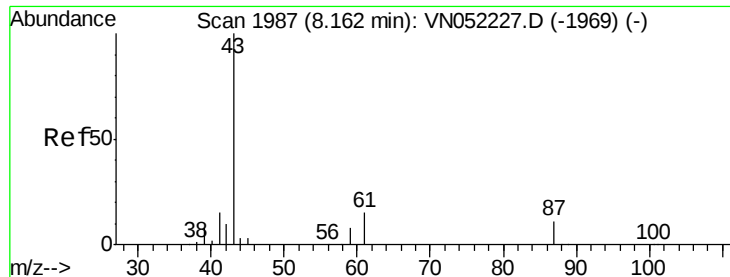
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.4	49.4#
77	0.0	23.9	35.9#



#38
 Carbon Tetrachloride
 Concen: 6.468 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	75.8	113.8#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 3.467 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#18

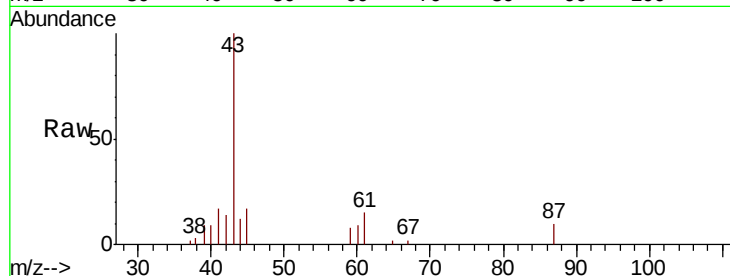
Tot Ion: 43 Resp: 25057

Ion Ratio Lower Upper

43 100

61 12.8 14.2 21.4#

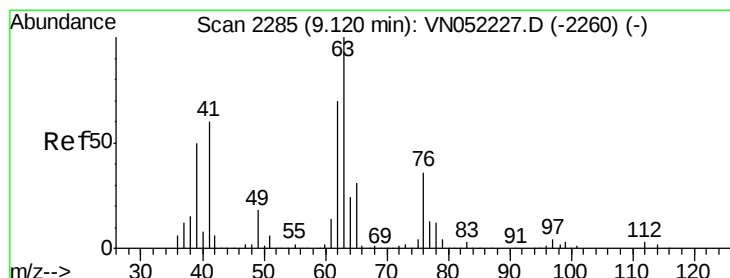
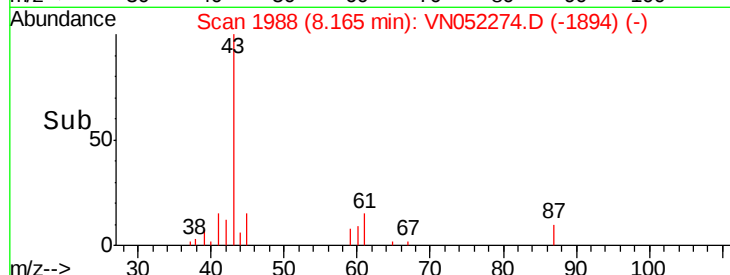
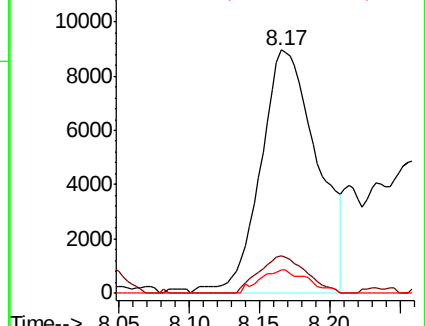
87 8.2 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN052227.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN052227.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.276 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052274.D

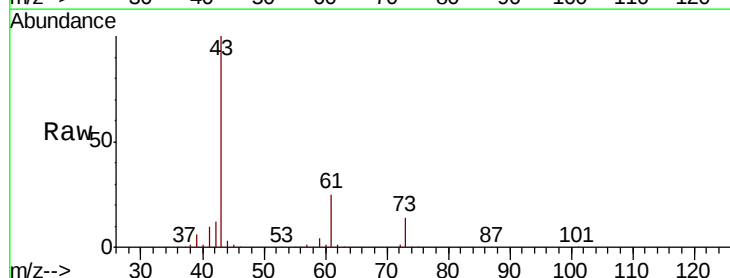
Acq: 12 Nov 2018 20:31

Tgt Ion: 63 Resp: 1218

Ion Ratio Lower Upper

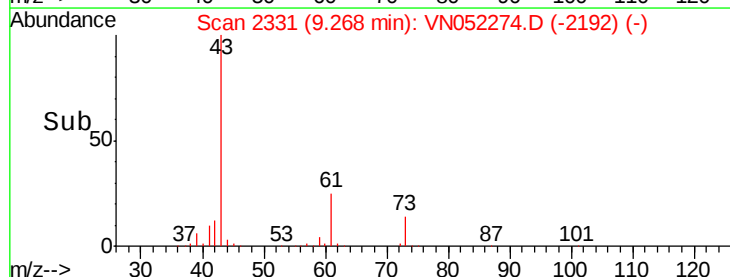
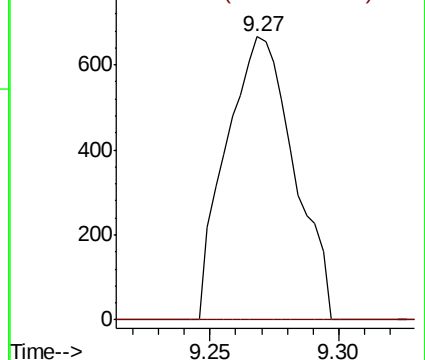
63 100

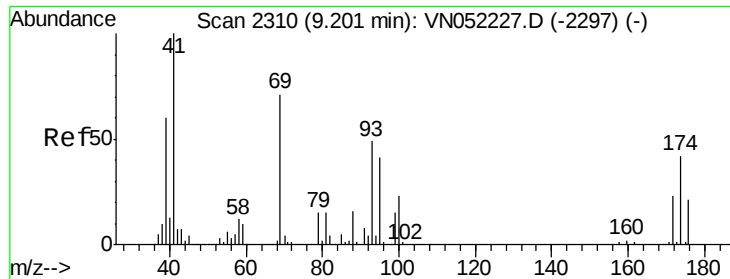
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN052227.D (-2260) (-)

Ion 64.90 (64.60 to 65.60): VN052227.D (-2260) (-)

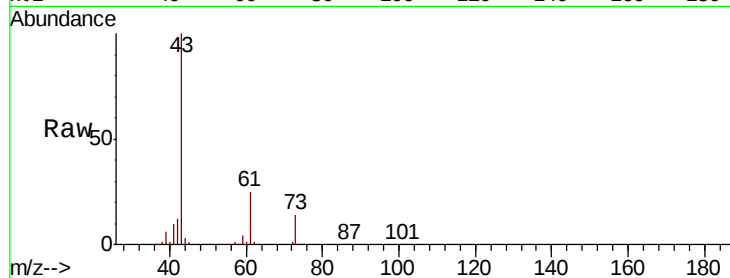




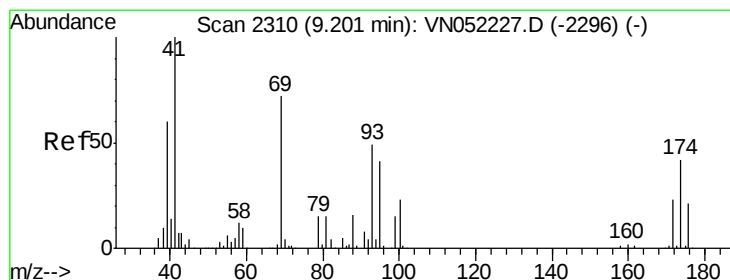
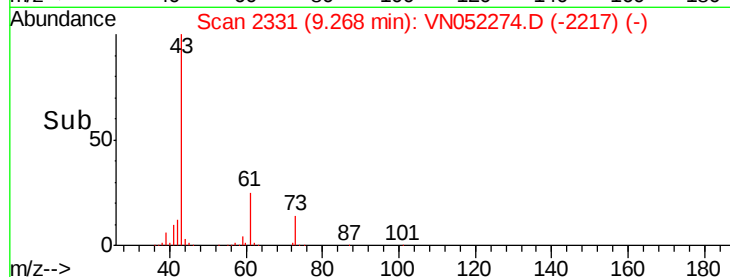
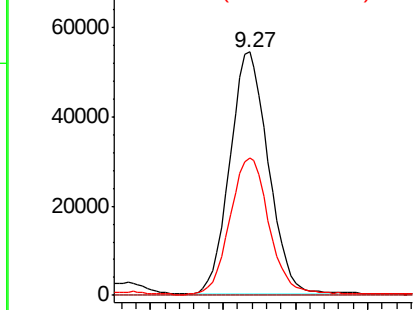
#48
Methvl methacrylate
Concen: 26.247 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#18

Tot Ion: 41 Resp: 99965
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 57.3 50.7 76.1

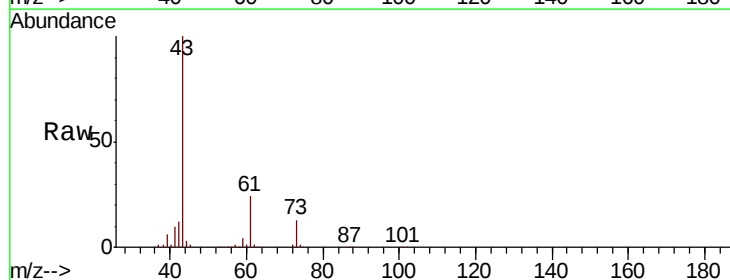


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

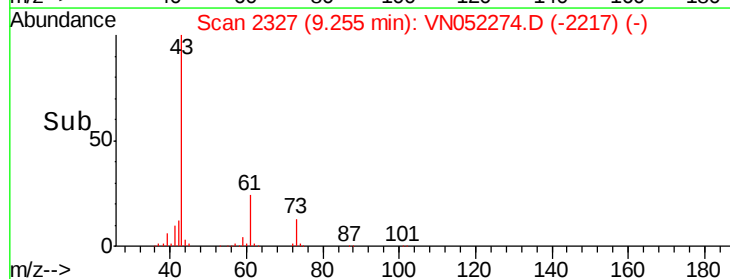
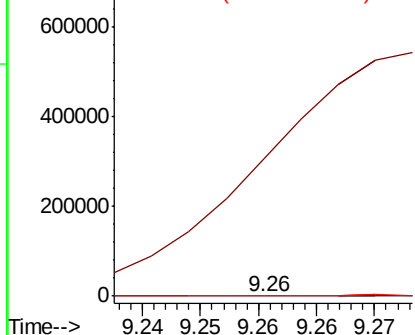


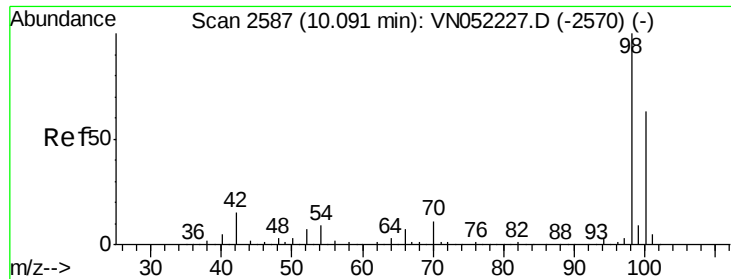
#49
1,4-Dioxane
Concen: 1.078 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.05 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

Tgt Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 3042039.4 32.5 48.7#
58 14775.8 58.2 87.4#



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





#50

Toluene-d8

Concen: 1.078 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

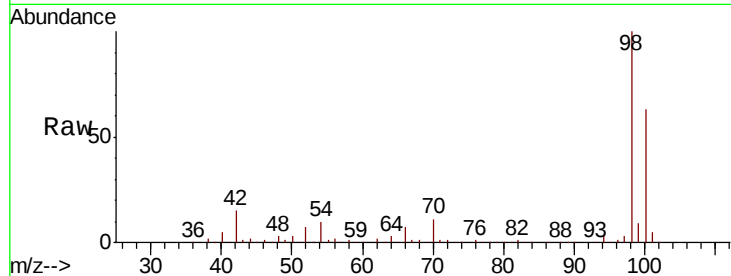
PB114678ZHE#18

Tot Ion: 98 Resp: 680932

Ion Ratio Lower Upper

98 100

100 62.3 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

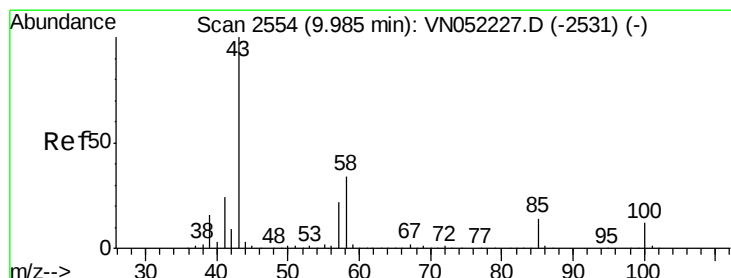
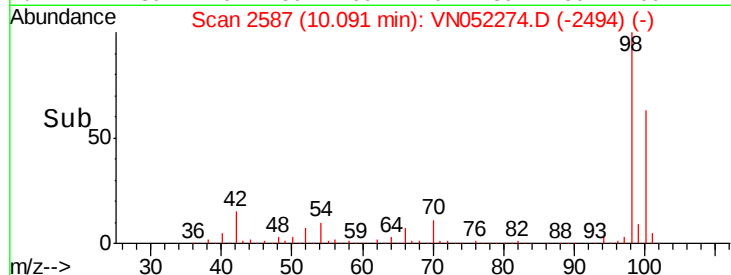
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.507 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052274.D

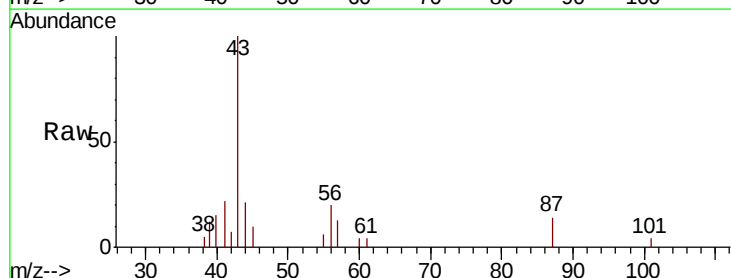
Acq: 12 Nov 2018 20:31

Tgt Ion: 43 Resp: 6014

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

10.02

5000

4000

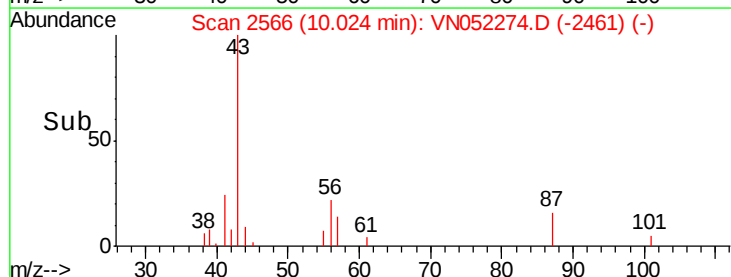
3000

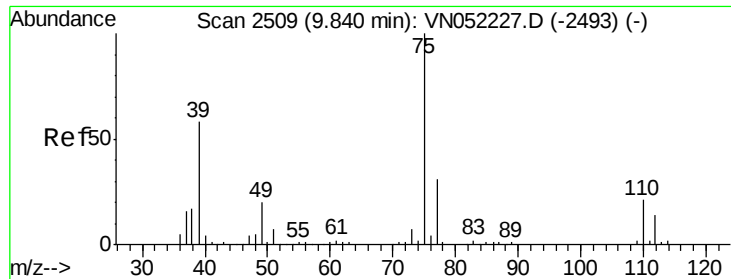
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.196 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#18

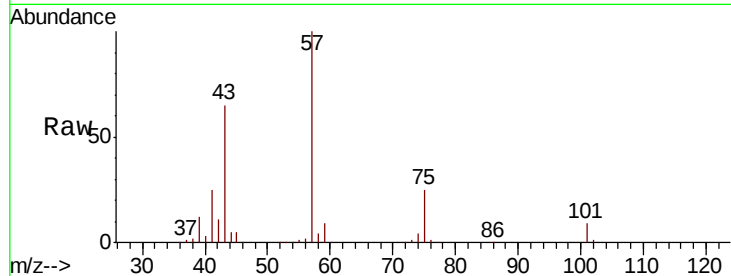
Tot Ion: 75 Resp: 37884

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

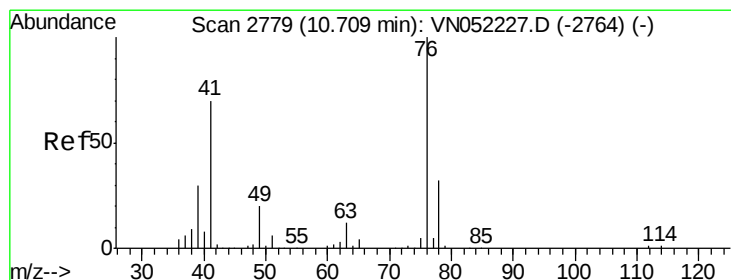
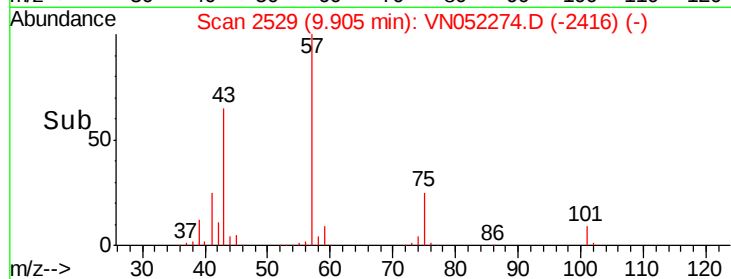
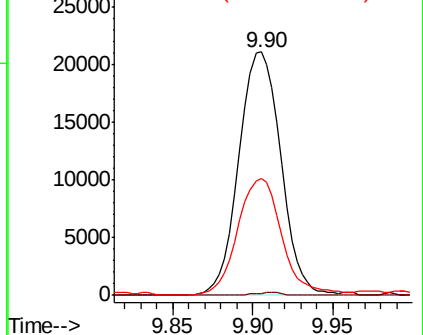
39 48.0 46.6 70.0



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: 1.228 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052274.D

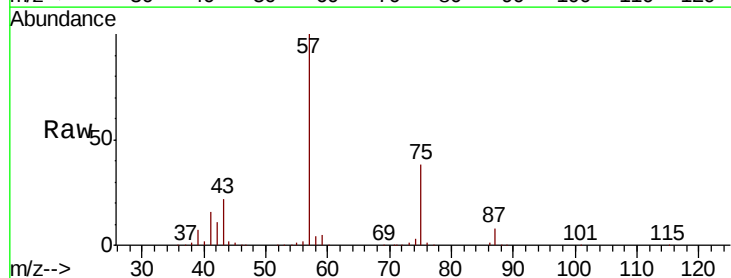
Acq: 12 Nov 2018 20:31

Tgt Ion: 76 Resp: 7568

Ion Ratio Lower Upper

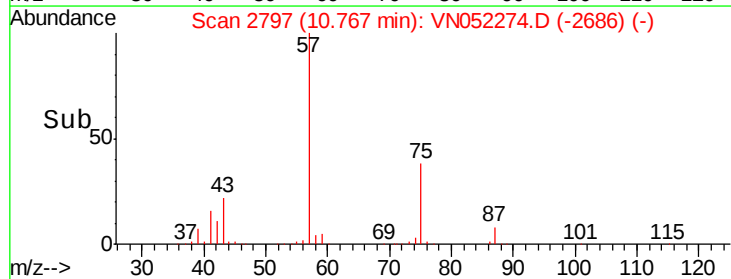
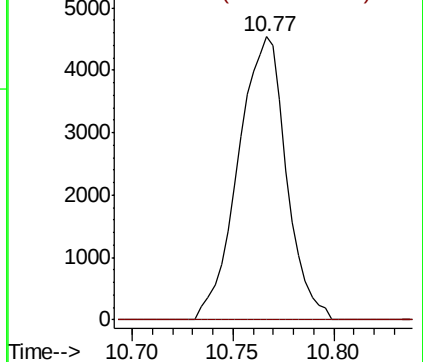
76 100

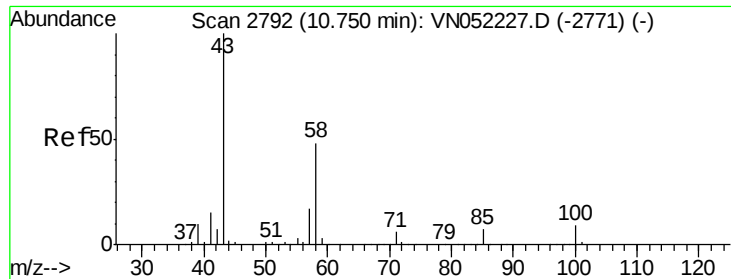
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

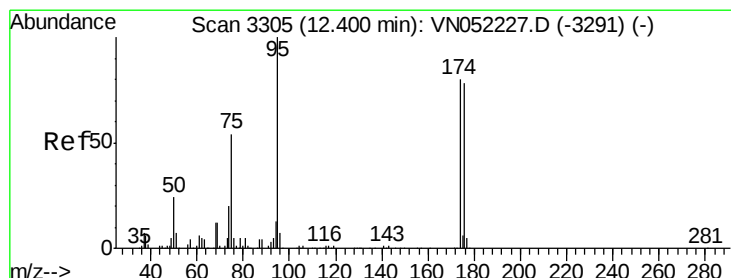
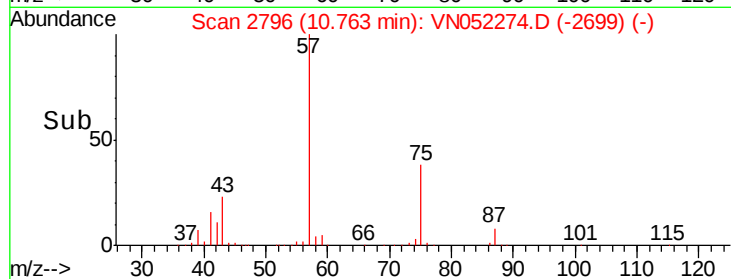
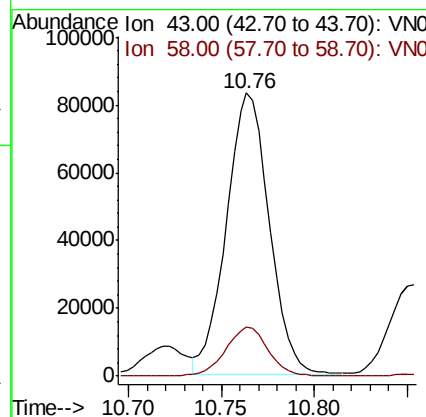
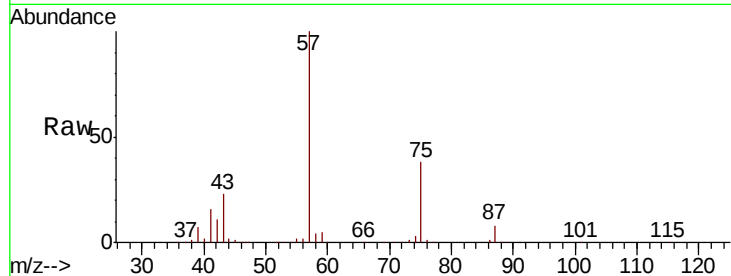




#59
 2-Hexanone
 Concen: 47.416 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

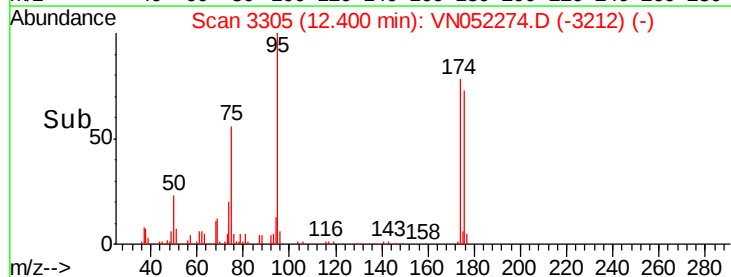
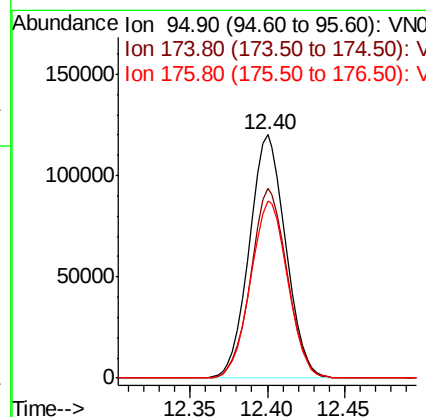
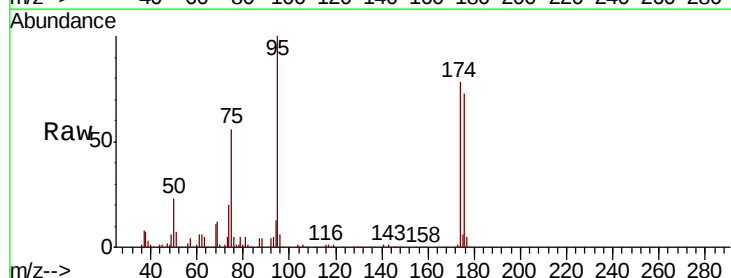
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#18

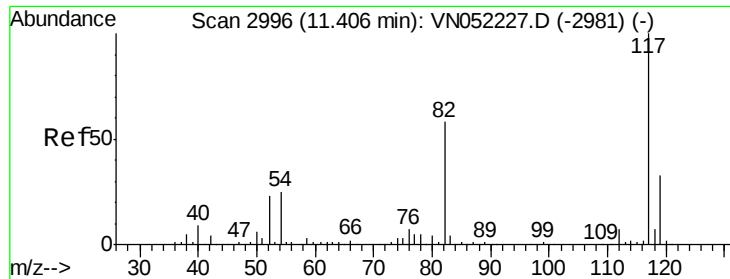
Tot Ion: 43 Resp: 132874
 Ion Ratio Lower Upper
 43 100
 58 17.6 24.1 72.3#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

Tgt Ion: 95 Resp: 196947
 Ion Ratio Lower Upper
 95 100
 174 78.0 0.0 159.4
 176 74.2 0.0 157.8

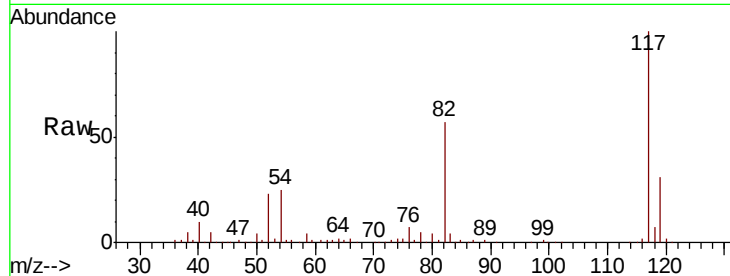




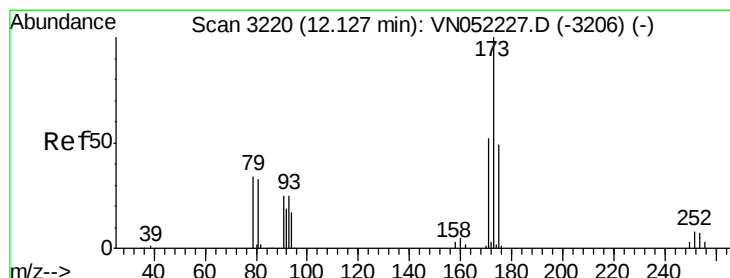
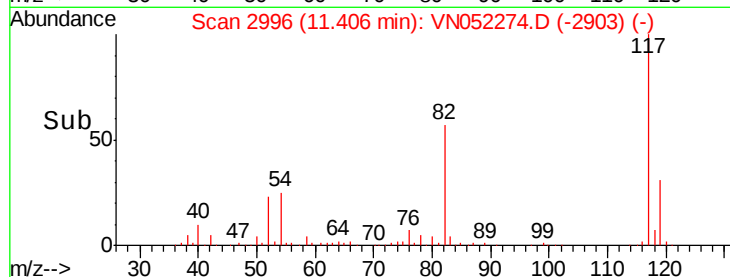
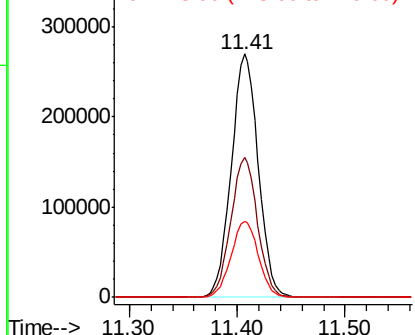
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#18

Tot Ion:117 Resp: 467952
Ion Ratio Lower Upper
117 100
82 57.3 46.2 69.2
119 31.4 26.2 39.4

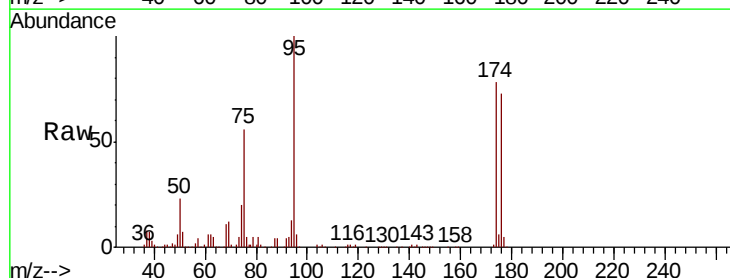


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

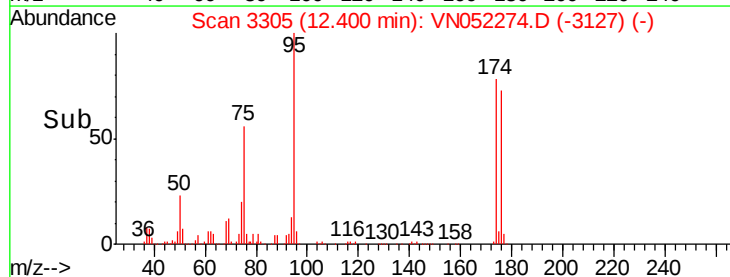
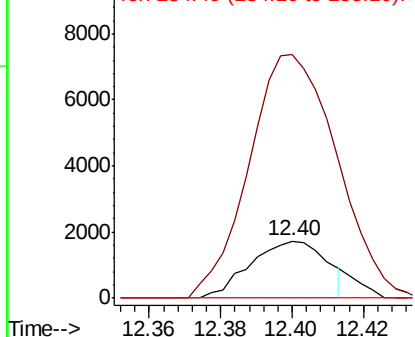


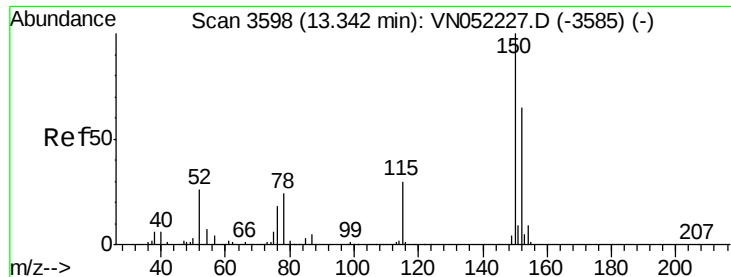
#71
Bromoform
Concen: 1.263 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052274.D
Acq: 12 Nov 2018 20:31

Tgt Ion:173 Resp: 2531
Ion Ratio Lower Upper
173 100
175 442.7 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: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#18

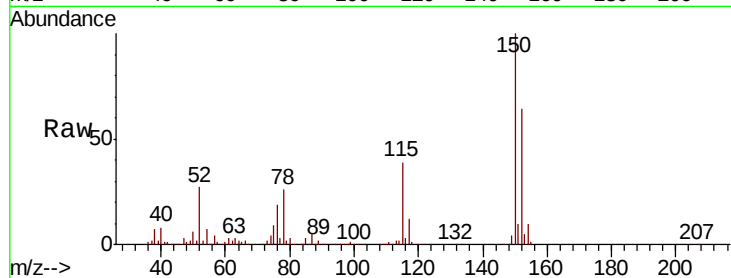
Tot Ion:152 Resp: 163053

Ion Ratio Lower Upper

152 100

115 60.4 29.8 89.5

150 157.6 0.0 350.2

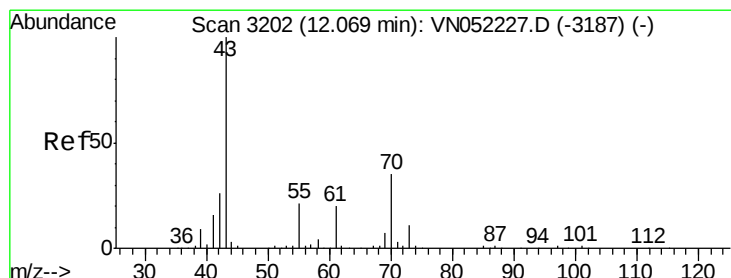
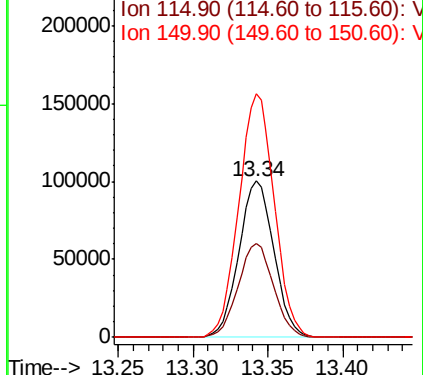
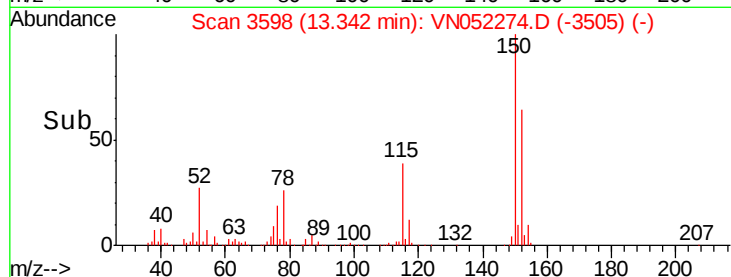


Abundance

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



#74

N-ethyl acetate

Concen: 3.230 ug/l

RT: 11.87 min Scan# 3141

Delta R.T. -0.20 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Tgt Ion: 43 Resp: 15631

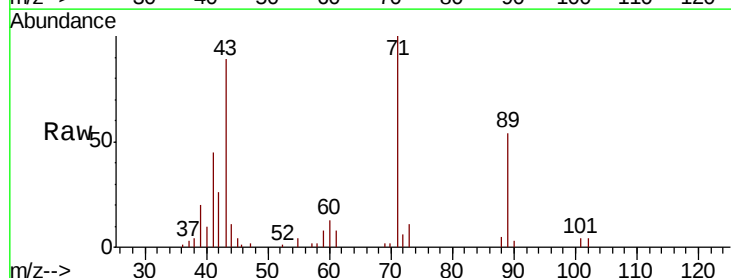
Ion Ratio Lower Upper

43 100

70 2.4 28.2 42.2#

55 5.4 17.4 26.2#

61 10.0 16.3 24.5#



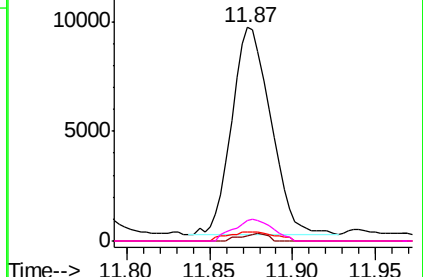
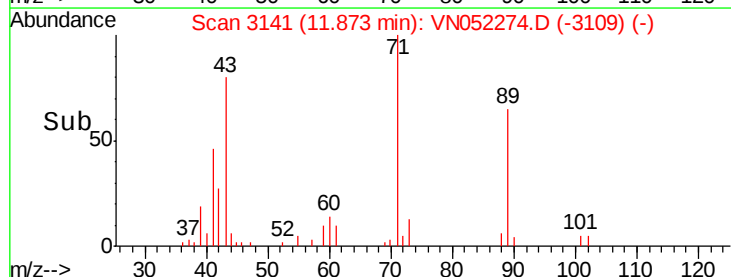
Abundance

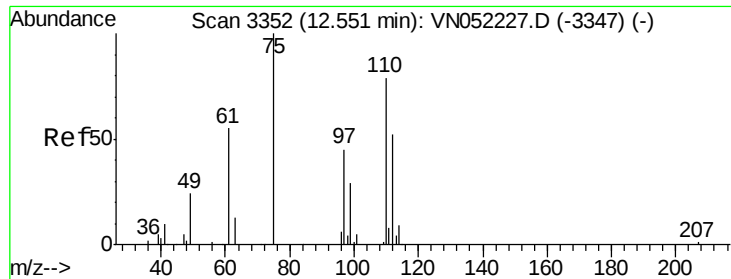
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

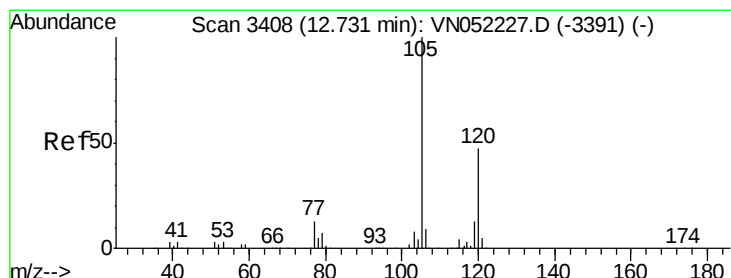
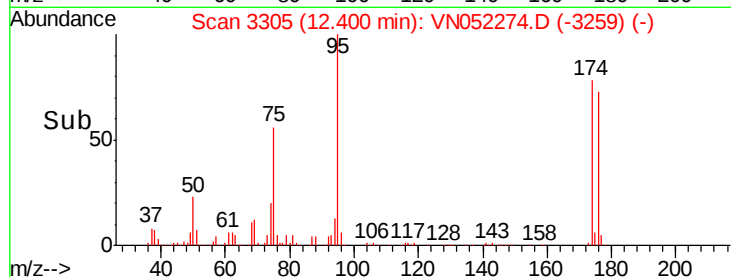
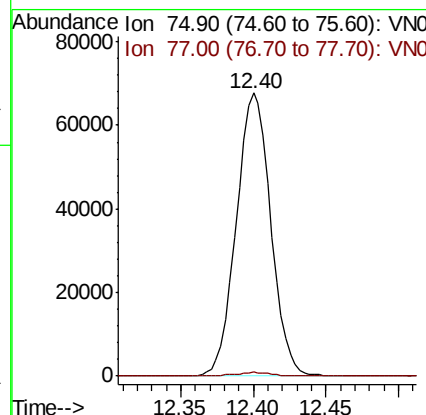
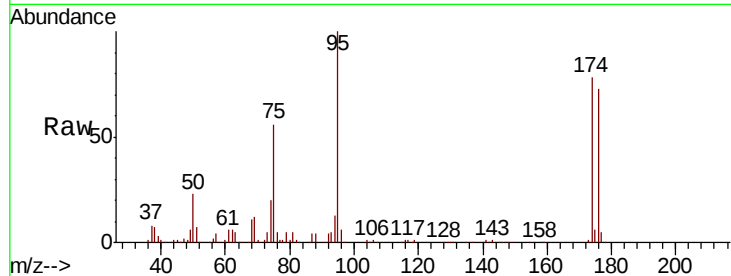




#76
 1,2,3-Trichloropropane
 Concen: 38.641 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

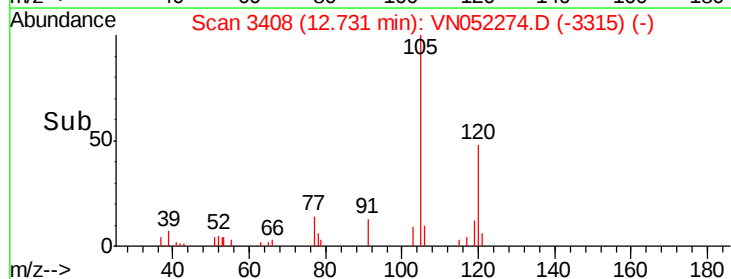
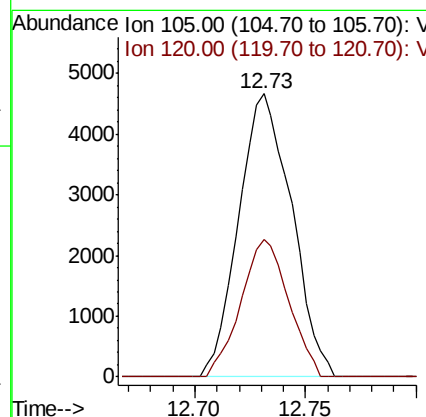
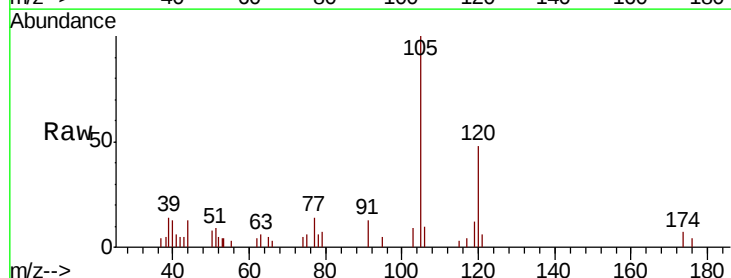
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#18

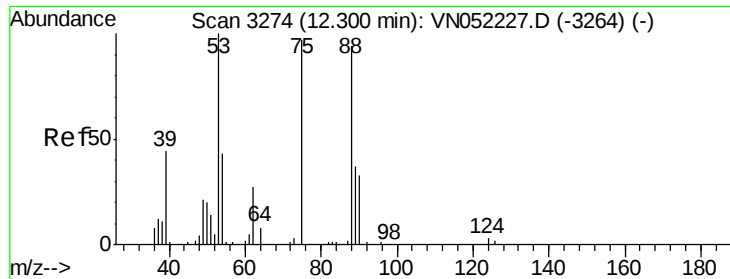
Tot Ion: 75 Resp: 111474
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.731 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052274.D
 Acq: 12 Nov 2018 20:31

Tgt Ion: 105 Resp: 7748
 Ion Ratio Lower Upper
 105 100
 120 43.8 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 131.900 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052274.D

Acq: 12 Nov 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#18

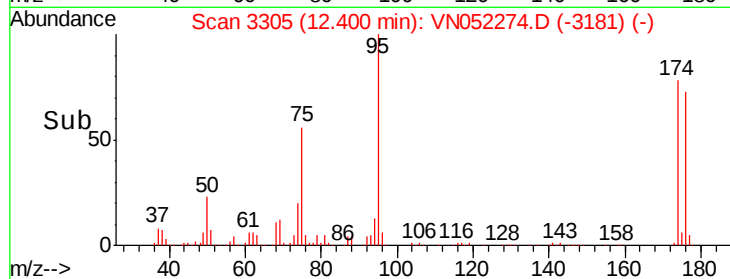
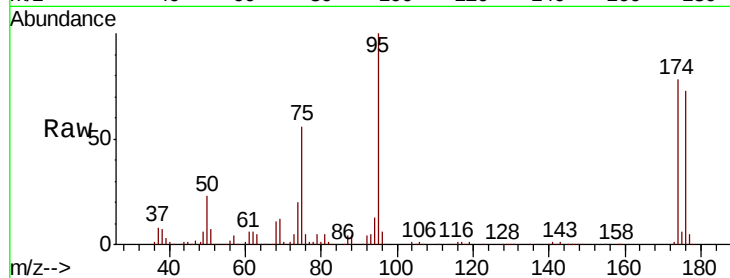
Tot Ion: 75 Resp: 111474

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

