

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052159.D
 Acq On : 5 Nov 2018 20:47
 Operator : MD\SY
 Sample : J5812-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP2-A

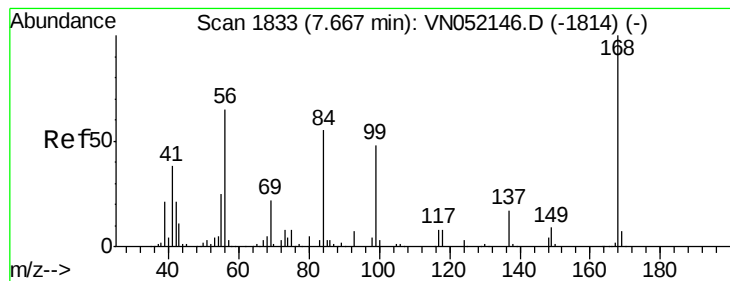
Quant Time: Nov 06 05:16:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	343505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	614508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	601334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	253132	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	260066	63.85	ug/l	0.00
Spiked Amount			Recovery	=	127.70%	
35) Dibromofluoromethane	7.59	113	230163	60.33	ug/l	0.00
Spiked Amount			Recovery	=	120.66%	
50) Toluene-d8	10.09	98	913086	61.90	ug/l	0.00
Spiked Amount			Recovery	=	123.80%	
62) 4-Bromofluorobenzene	12.40	95	310789	64.18	ug/l	0.00
Spiked Amount			Recovery	=	128.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	126	32.612	ug/l #	14
16) Acetone	3.82	43	7114	7.709	ug/l	99
17) Carbon Disulfide	4.06	76	2115	0.234	ug/l #	76
18) Methyl Acetate	4.33	43	2788	0.951	ug/l #	78
20) Methylene Chloride	4.55	84	23720	6.186	ug/l	94
25) 2-Butanone	6.85	43	665	0.465	ug/l #	48
29) Tetrahydrofuran	7.22	42	943	1.065	ug/l #	57
30) Chloroform	7.38	83	1776	0.271	ug/l #	79
31) Cyclohexane	7.67	56	8518	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	27586	5.075	ug/l #	50
37) Ethyl Acetate	6.93	43	137	Below Cal	#	72
38) Carbon Tetrachloride	7.67	117	35492	6.530	ug/l #	16
41) Methacrylonitrile	7.17	41	95	1.444	ug/l #	24
43) Isopropyl Acetate	8.17	43	200812	32.375	ug/l #	88
44) Trichloroethene	8.84	130	1249	0.295	ug/l	99
48) Methyl methacrylate	9.18	41	5512	1.846	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	1052	0.321	ug/l	97
54) cis-1,3-Dichloropropene	9.91	75	1789	0.297	ug/l #	47
59) 2-Hexanone	10.76	43	13236	5.802	ug/l #	61
71) Bromoform	12.39	173	1169	3.197	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	160421	40.270	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160421	144.194	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.90	180	69	2.255	ug/l #	12
95) Naphthalene	15.13	128	23331	3.010	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	157	1.779	ug/l #	32

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampled :

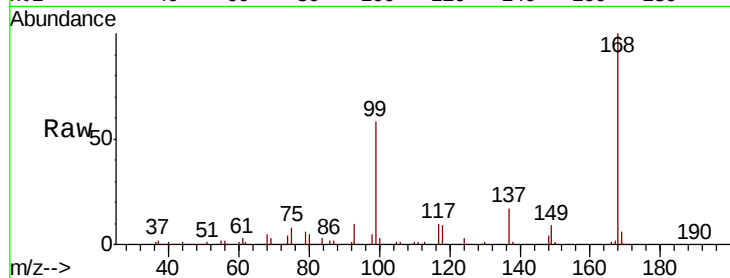
TP2-A

Tot Ion:168 Resp: 343505

Ion Ratio Lower Upper

168 100

99 57.6 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

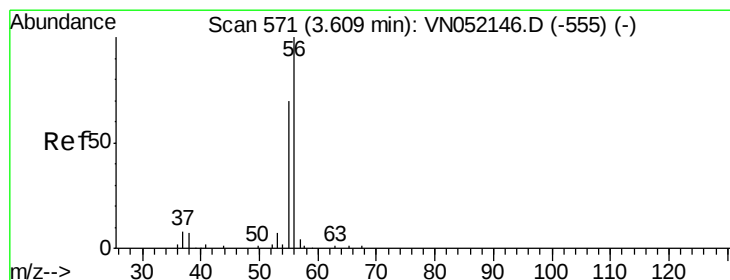
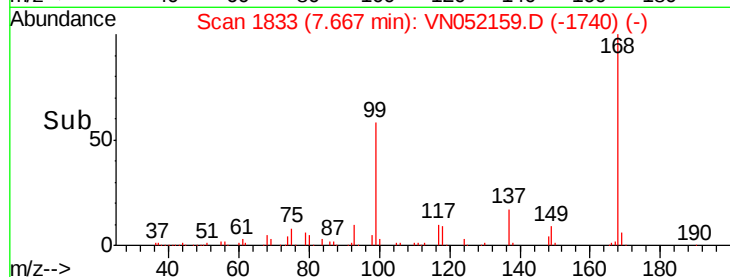
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 32.612 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052159.D

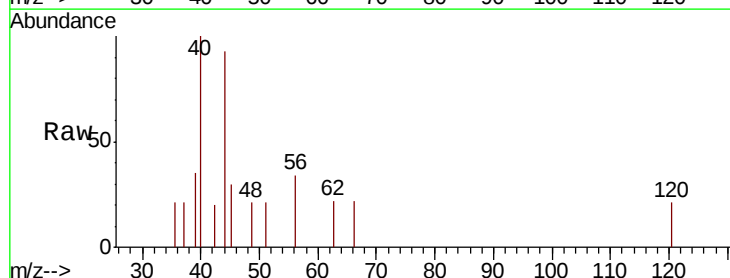
Acq: 5 Nov 2018 20:47

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

300

250

200

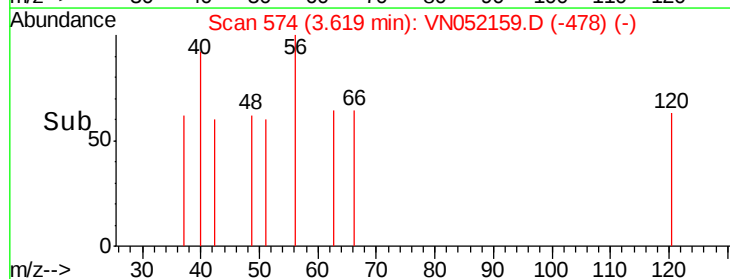
150

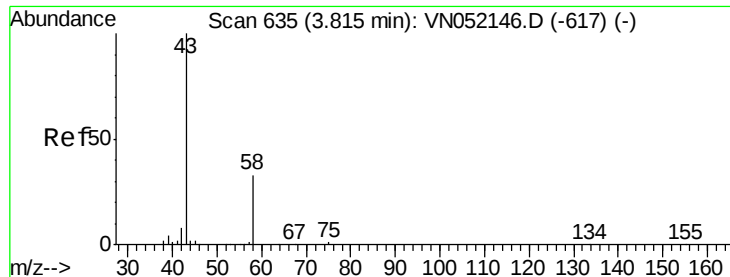
100

50

0

Time-->





#16

Acetone

Concen: 7.709 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampled :

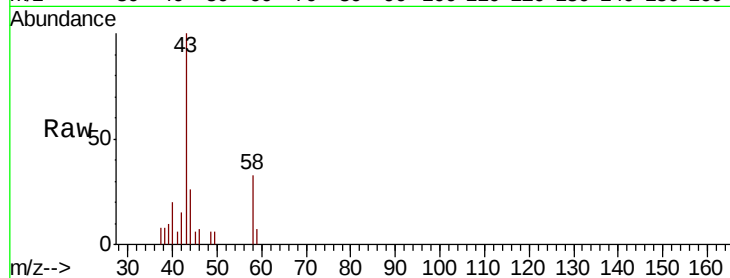
TP2-A

Tot Ion: 43 Resp: 7114

Ion Ratio Lower Upper

43 100

58 33.3 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3000

2500

2000

1500

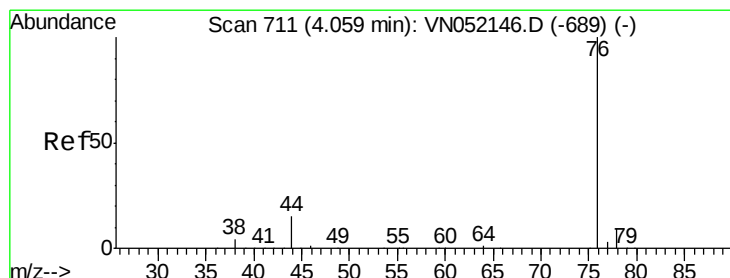
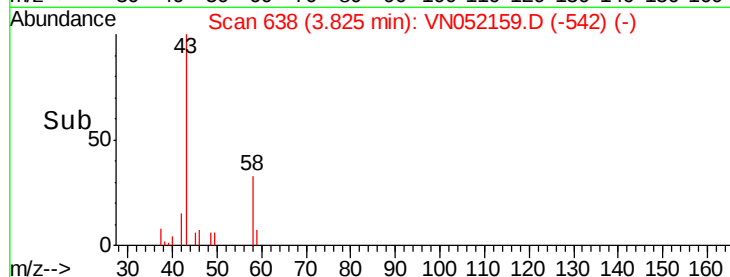
1000

500

0

3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.234 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.00 min

Lab File: VN052159.D

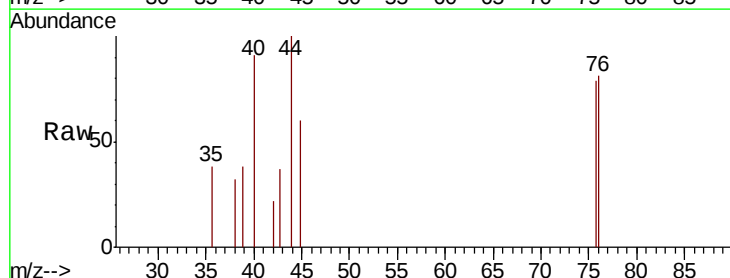
Acq: 5 Nov 2018 20:47

Tgt Ion: 76 Resp: 2115

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

1200

1000

800

600

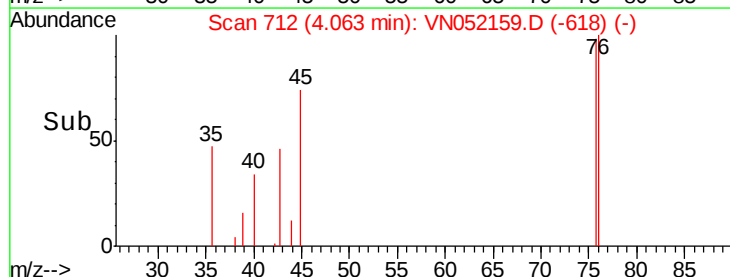
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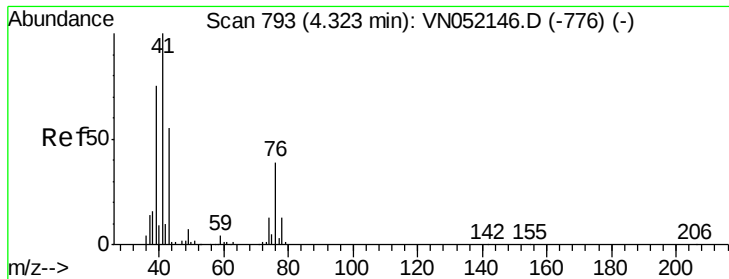
200

0

4.00 4.05 4.10

Time-->

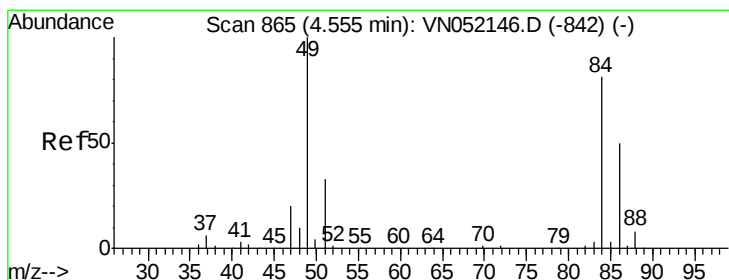
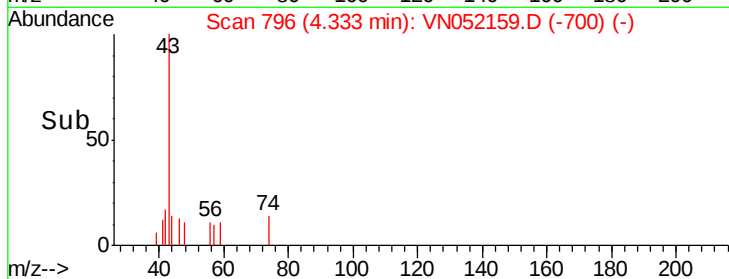
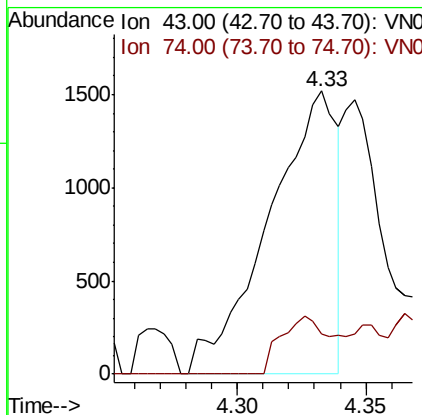
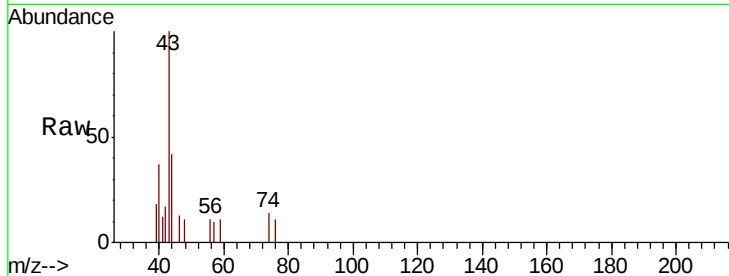




#18
Methyl Acetate
Concen: 0.951 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

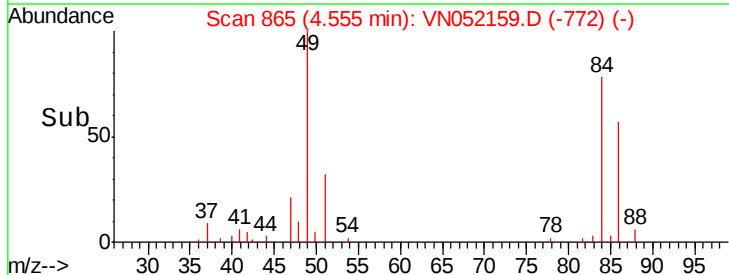
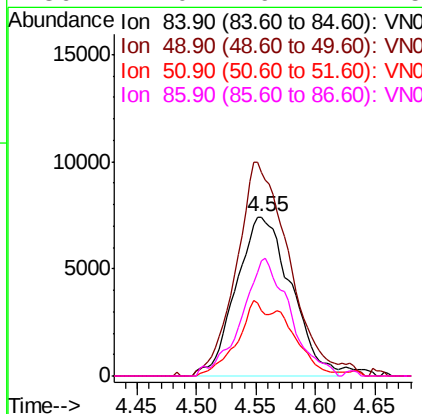
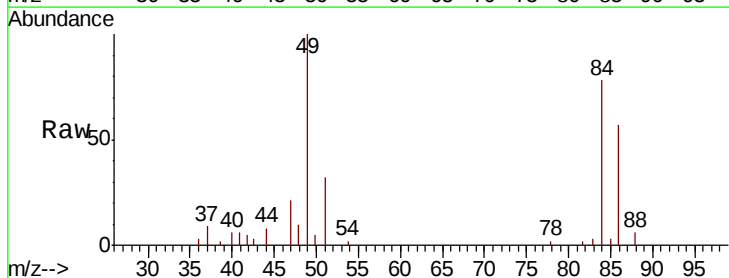
Instrument :
MSVOA_N
ClientSampleId :
TP2-A

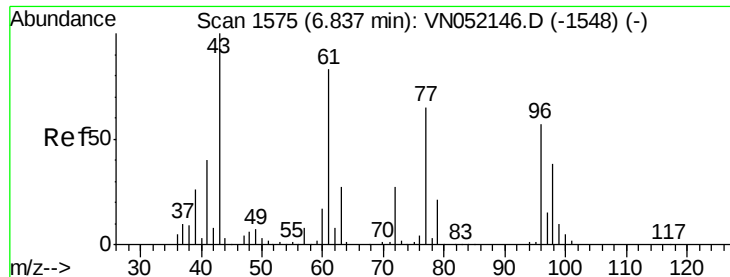
Tot Ion: 43 Resp: 2788
Ion Ratio Lower Upper
43 100
74 13.0 19.3 28.9#



#20
Methylene Chloride
Concen: 6.186 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion: 84 Resp: 23720
Ion Ratio Lower Upper
84 100
49 127.4 98.4 147.6
51 40.8 32.5 48.7
86 72.0 49.7 74.5

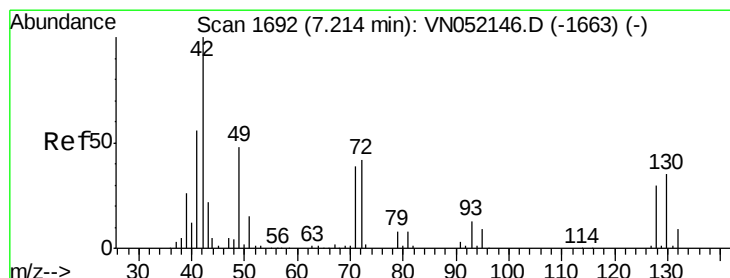
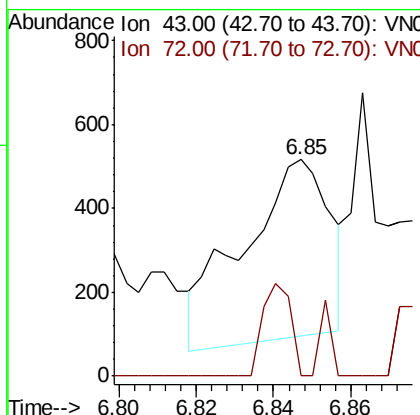
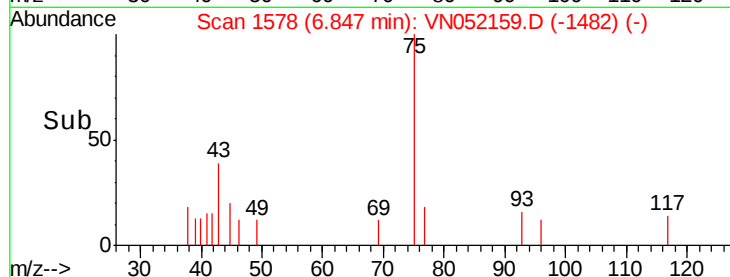
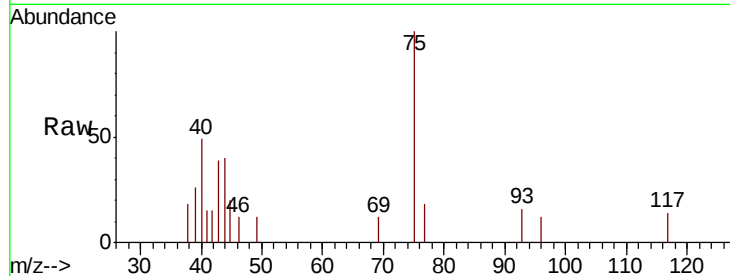




#25
2-Butanone
Concen: 0.465 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

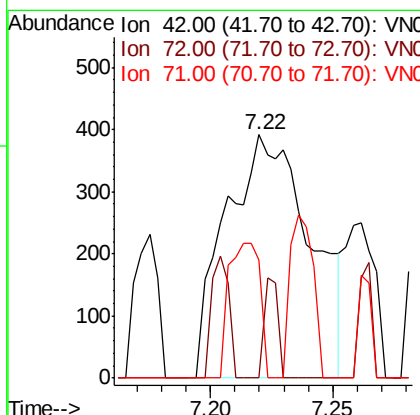
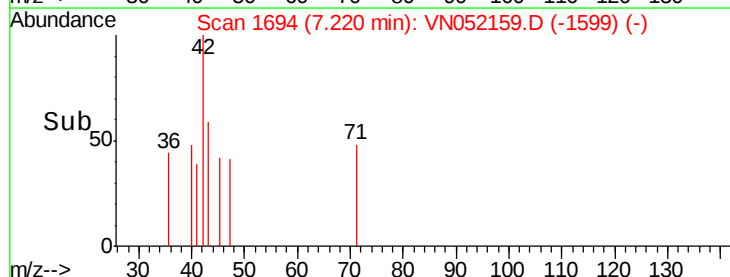
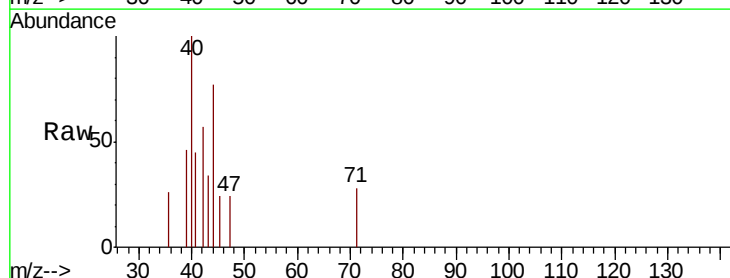
Instrument :
MSVOA_N
ClientSampled :
TP2-A

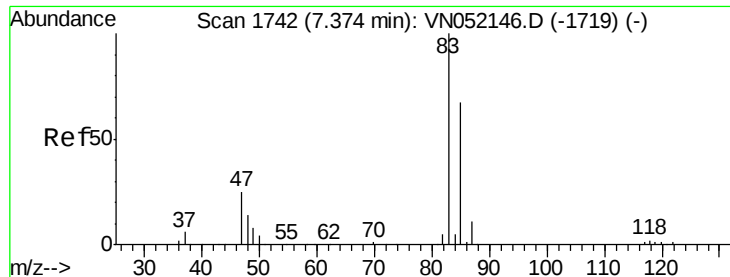
Tot Ion: 43 Resp: 665
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#29
Tetrahydrofuran
Concen: 1.065 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion: 42 Resp: 943
Ion Ratio Lower Upper
42 100
72 6.5 32.3 48.5#
71 20.5 31.0 46.6#

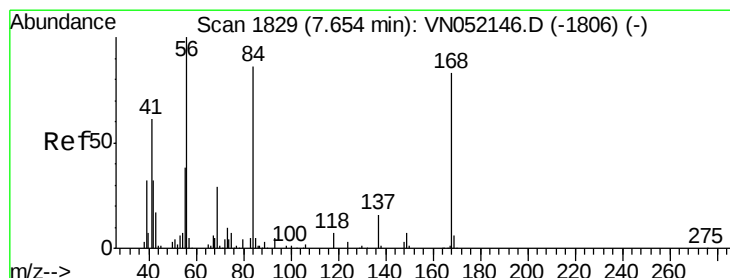
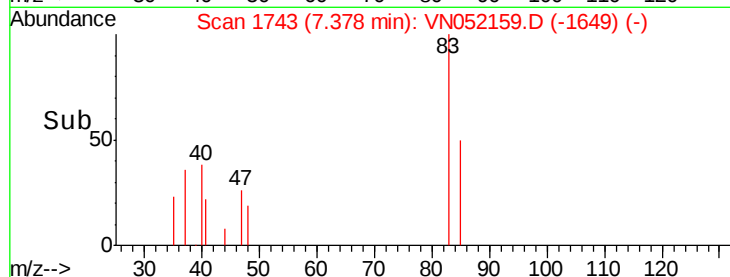
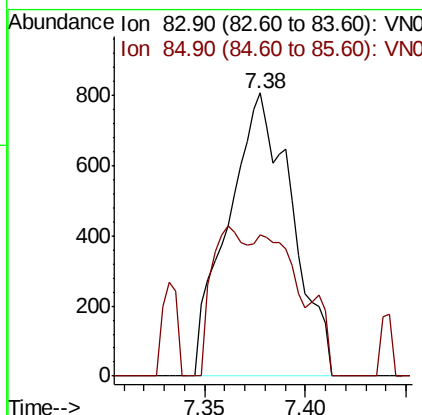
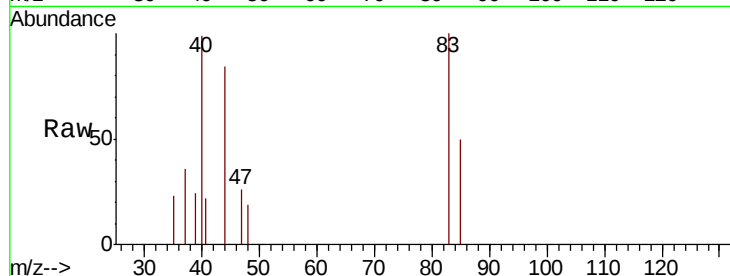




#30
Chloroform
Concen: 0.271 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

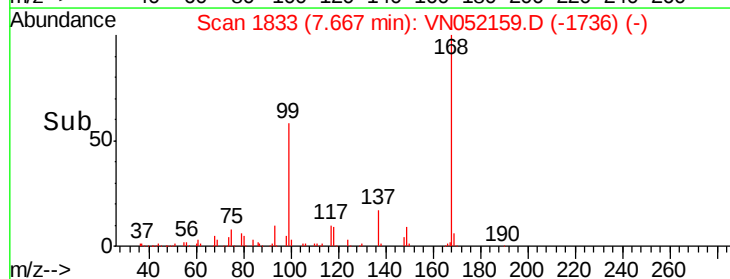
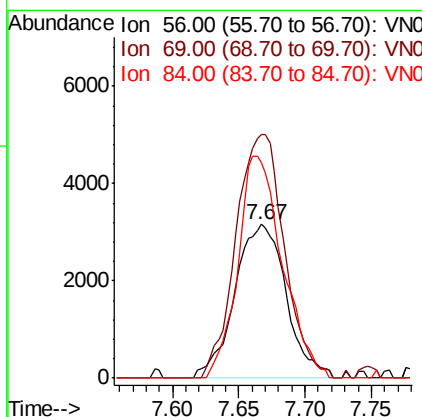
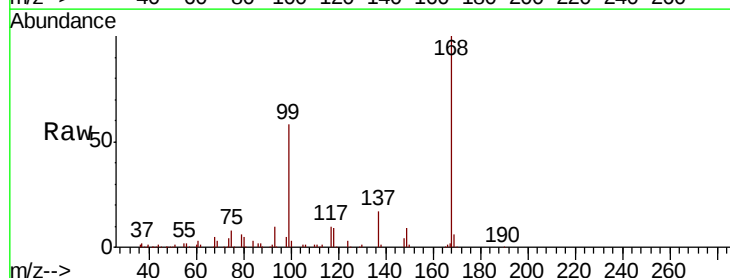
Instrument :
MSVOA_N
ClientSampled :
TP2-A

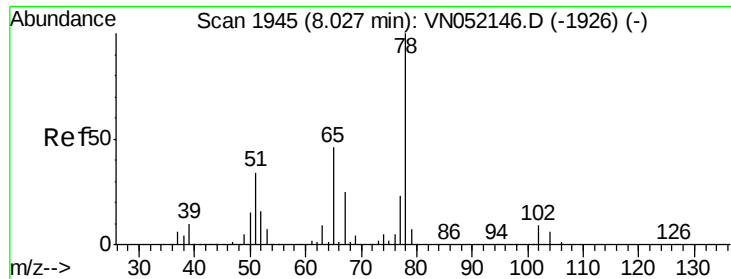
Tot Ion: 83 Resp: 1776
Ion Ratio Lower Upper
83 100
85 49.9 53.7 80.5#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion: 56 Resp: 8518
Ion Ratio Lower Upper
56 100
69 158.0 23.5 35.3#
84 140.3 68.7 103.1#

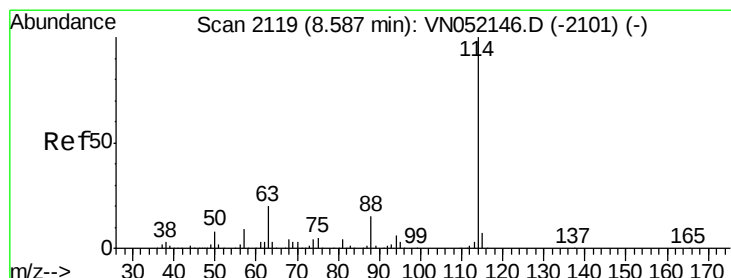
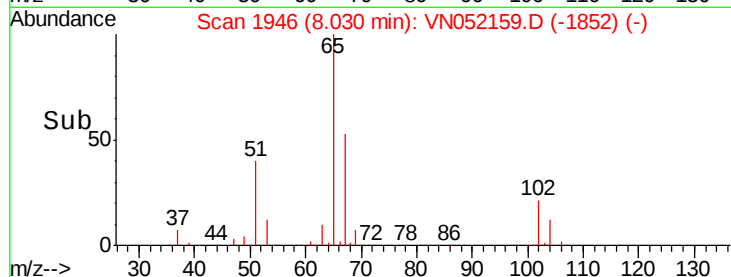
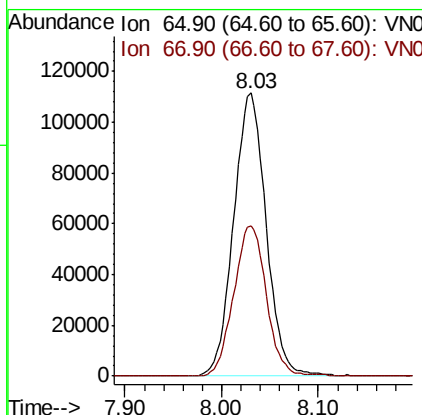
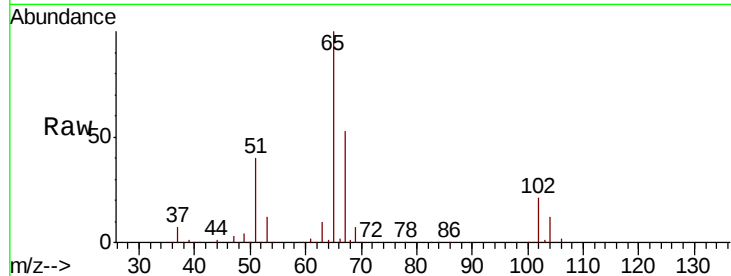




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052159.D
 Acq: 5 Nov 2018 20:47

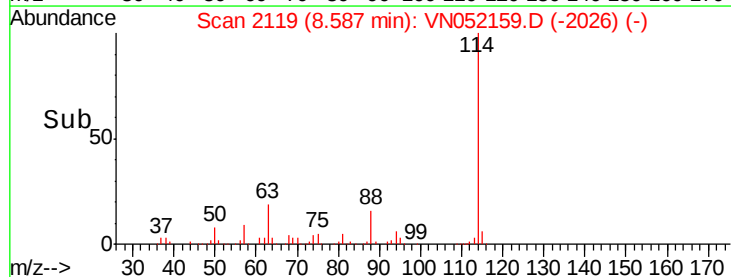
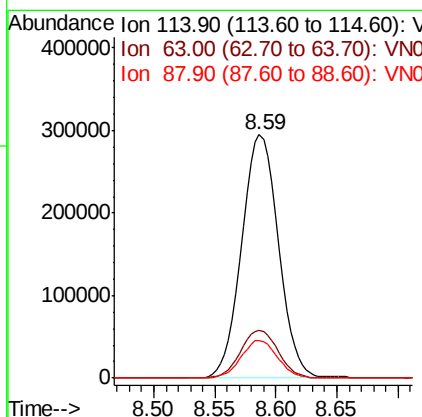
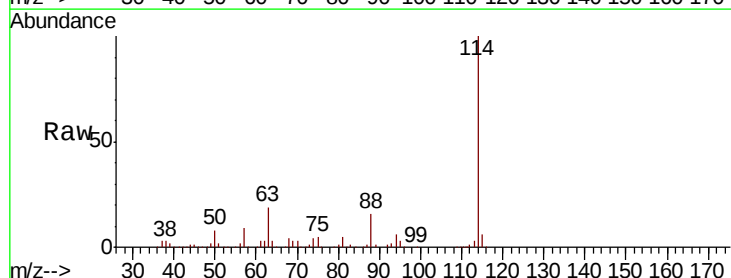
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 ClientSampleId :
 TP2-A

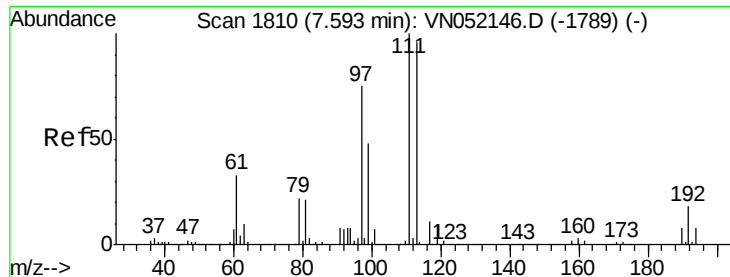
Tot Ion: 65 Resp: 260066
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052159.D
 Acq: 5 Nov 2018 20:47

Tgt Ion: 114 Resp: 614508
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.6 0.0 31.0

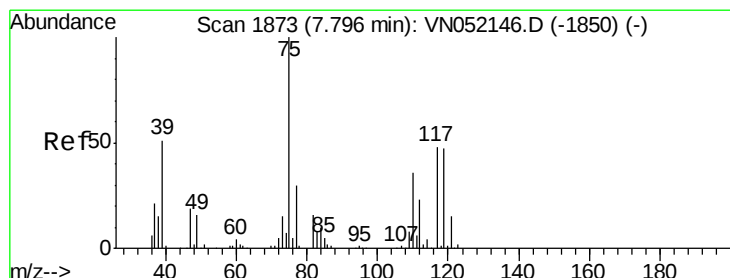
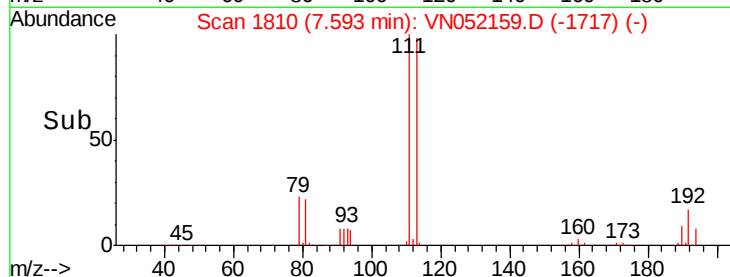
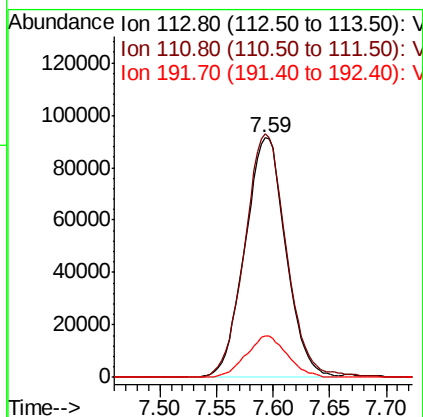
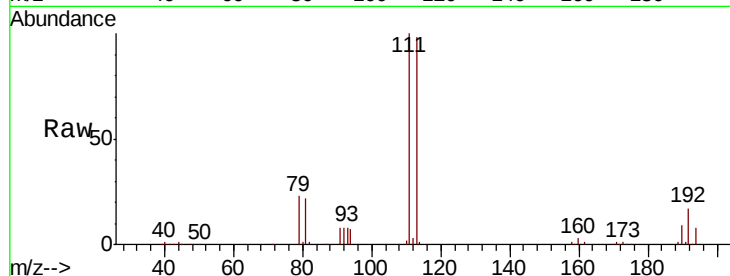




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052159.D
 Acq: 5 Nov 2018 20:47

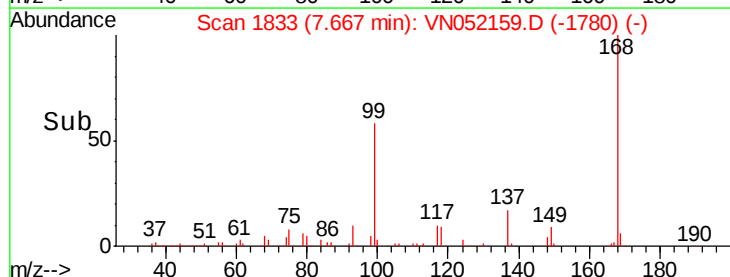
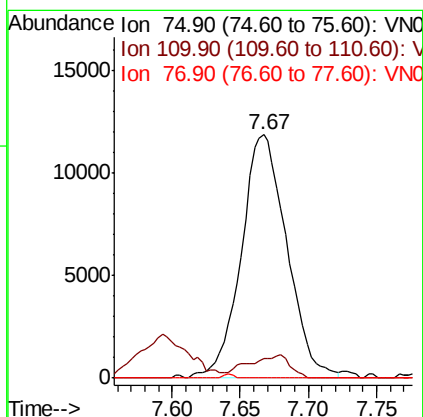
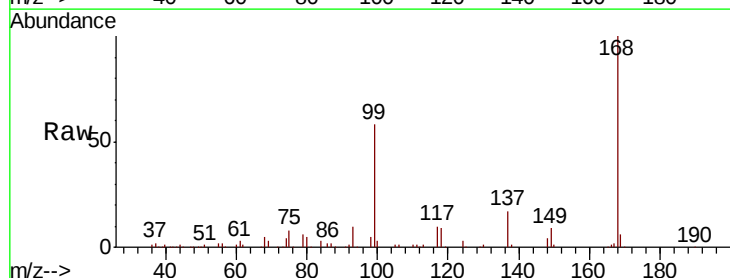
Instrument :
 MSVOA_N
 ClientSampleId :
 TP2-A

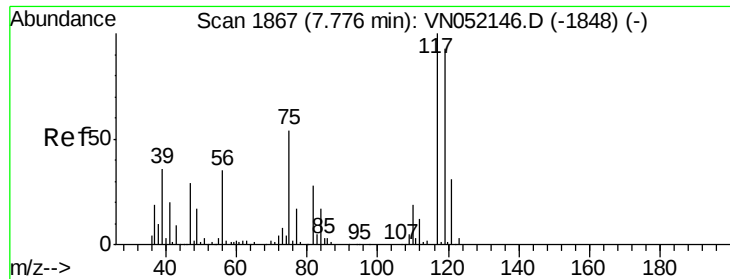
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.7	122.5
192	17.3	14.2	21.4



#36
 1,1-Dichloropropene
 Concen: 5.075 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052159.D
 Acq: 5 Nov 2018 20:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.8	53.5#
77	0.0	24.0	36.0#





#38

Carbon Tetrachloride

Concen: 6.530 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampleId :

TP2-A

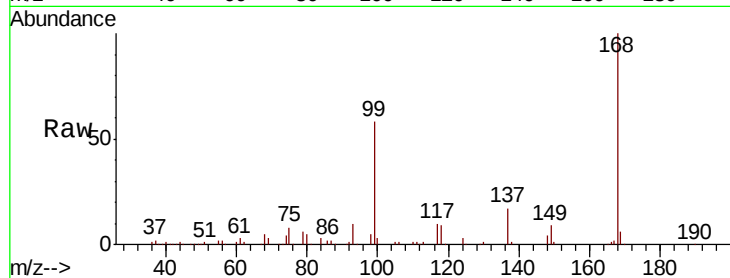
Tot Ion:117 Resp: 35492

Ion Ratio Lower Upper

117 100

119 4.2 74.7 112.1#

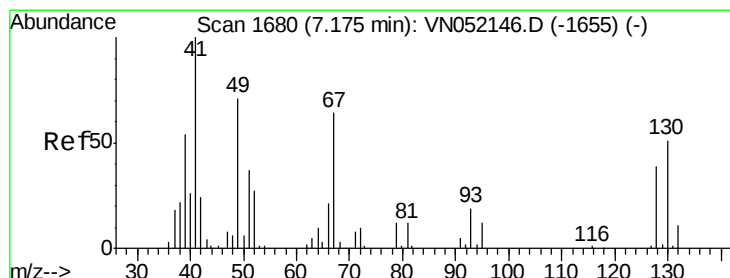
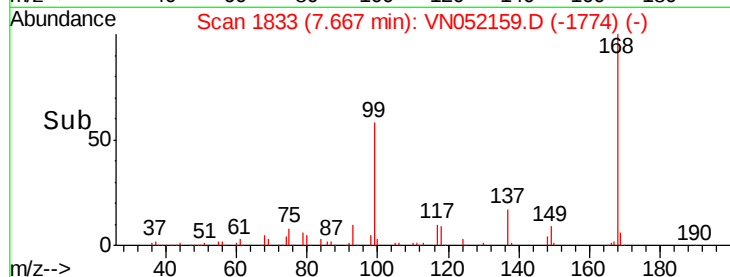
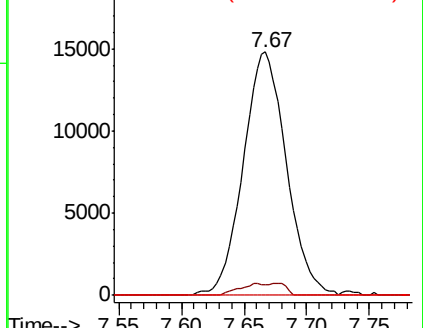
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.444 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Tgt Ion: 41 Resp: 95

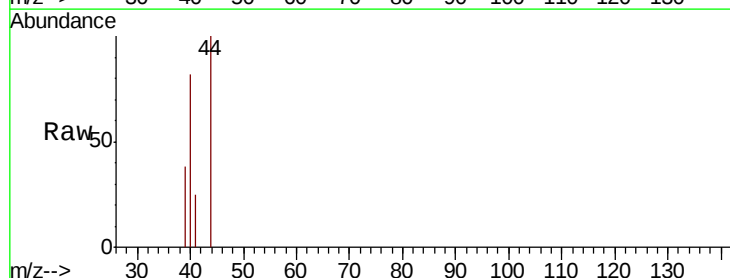
Ion Ratio Lower Upper

41 100

39 111.6 49.6 74.4#

67 0.0 65.4 98.2#

52 0.0 27.2 40.8#

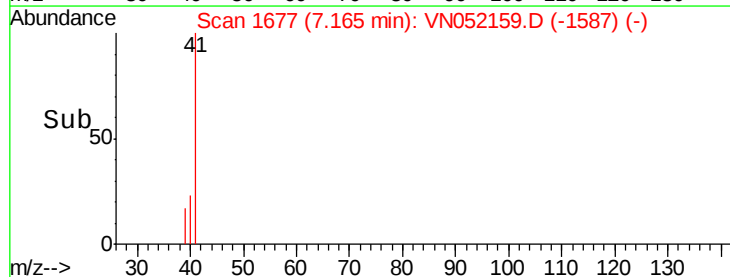
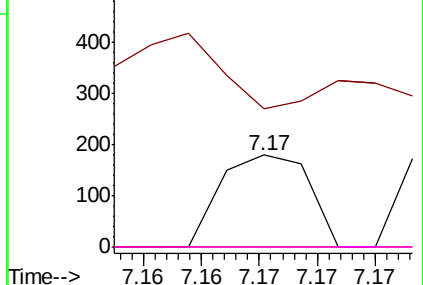


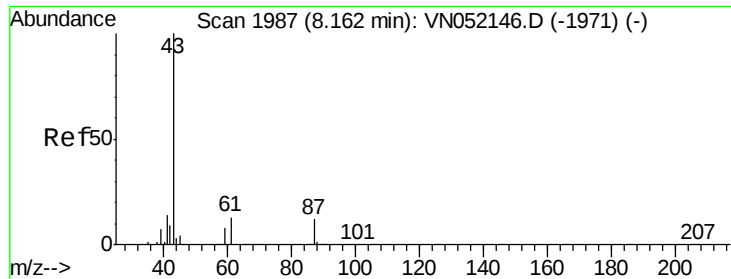
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 32.375 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

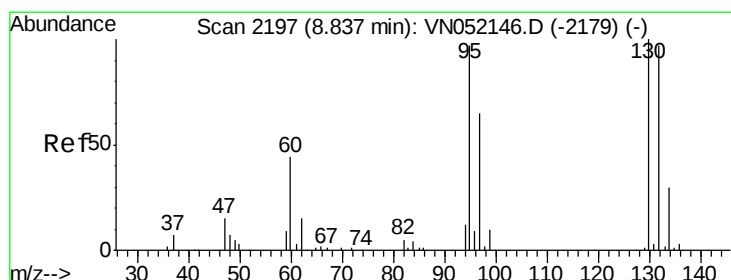
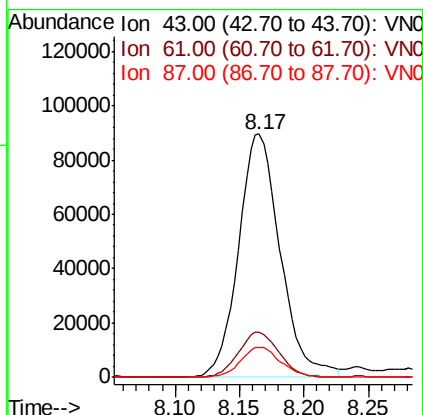
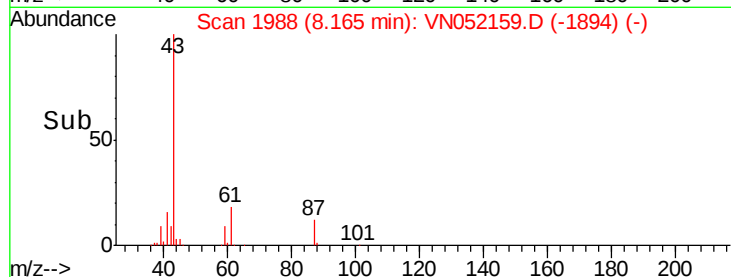
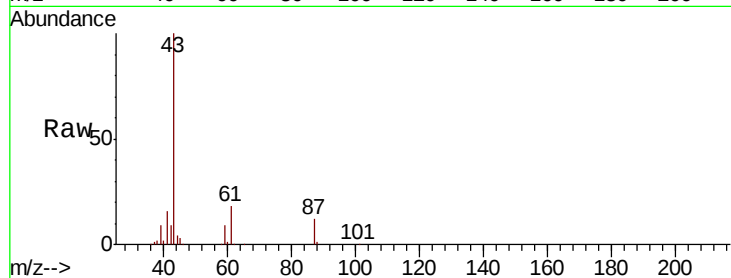
MSVOA_N

ClientSampled :

TP2-A

Tot Ion: 43 Resp: 200812

Ion	Ratio	Lower	Upper
43	100		
61	18.2	21.5	32.3#
87	11.9	10.2	15.2



#44

Trichloroethene

Concen: 0.295 ug/l

RT: 8.84 min Scan# 2198

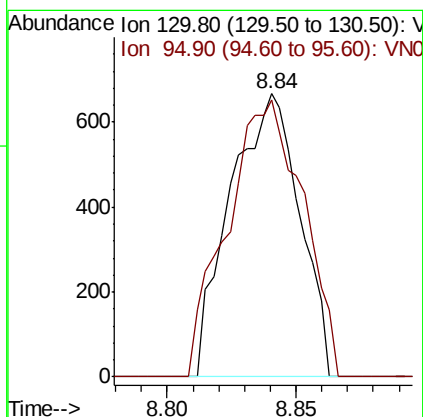
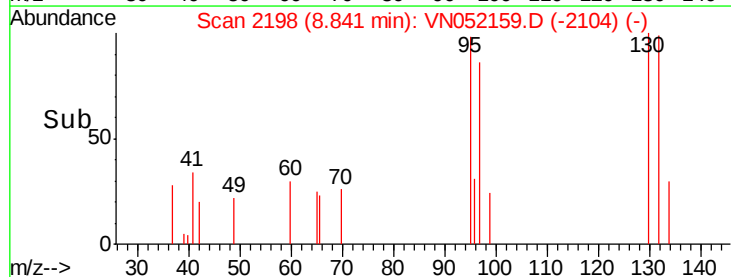
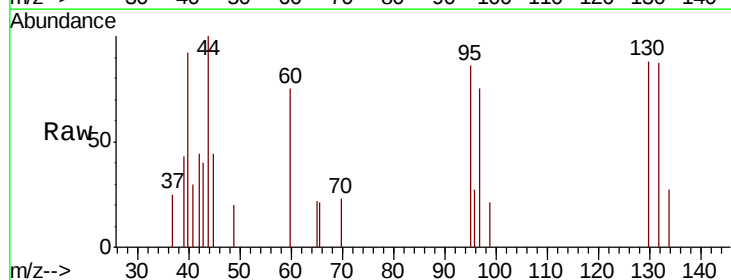
Delta R.T. 0.00 min

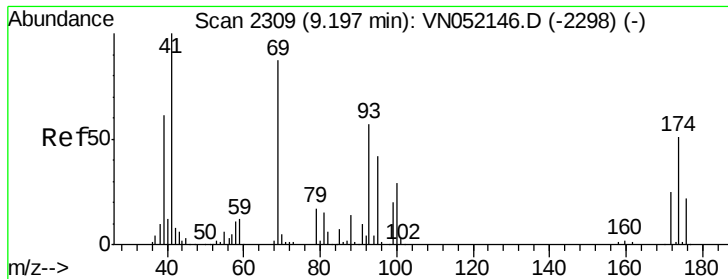
Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Tgt Ion: 130 Resp: 1249

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	193.8

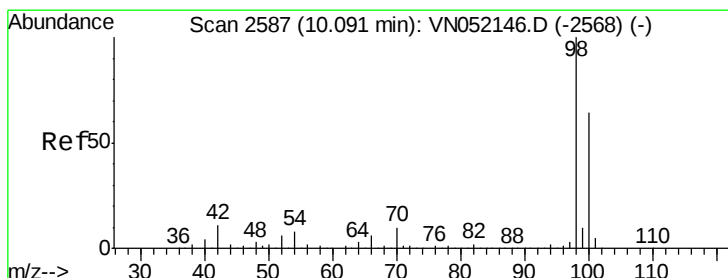
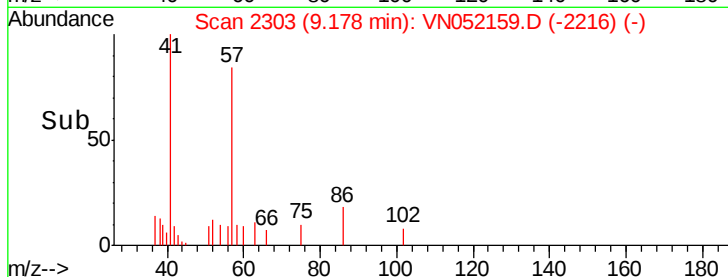
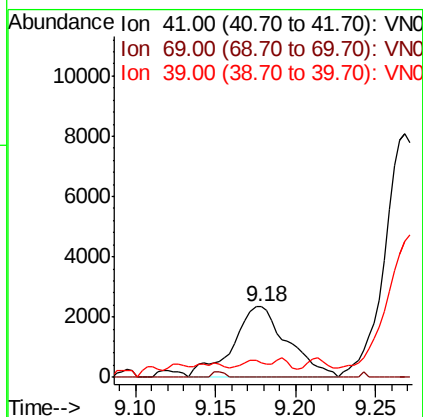
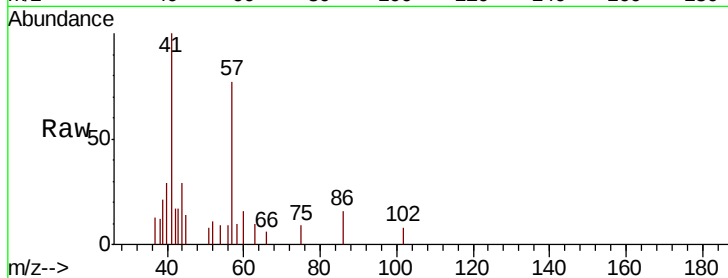




#48
Methvl methacrylate
Concen: 1.846 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

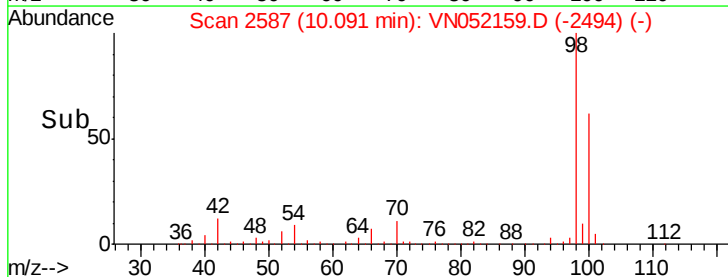
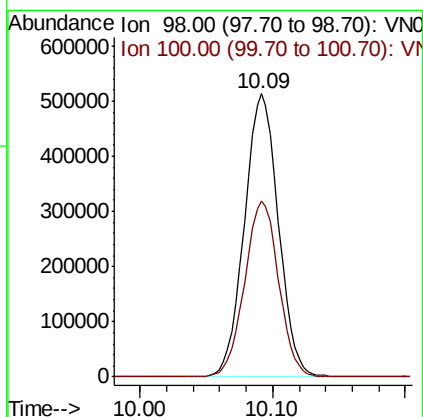
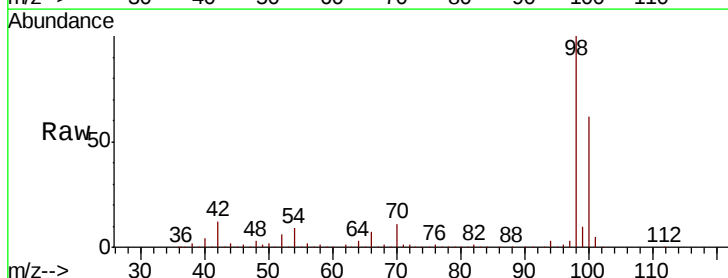
Instrument :
MSVOA_N
ClientSampled :
TP2-A

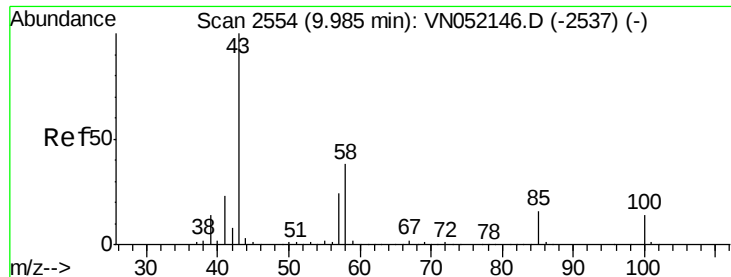
Tot Ion: 41 Resp: 5512
Ion Ratio Lower Upper
41 100
69 0.0 69.7 104.5#
39 0.0 50.6 76.0#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion: 98 Resp: 913086
Ion Ratio Lower Upper
98 100
100 62.3 50.5 75.7





#51

4-Methyl-2-Pentanone

Concen: 0.321 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampled :

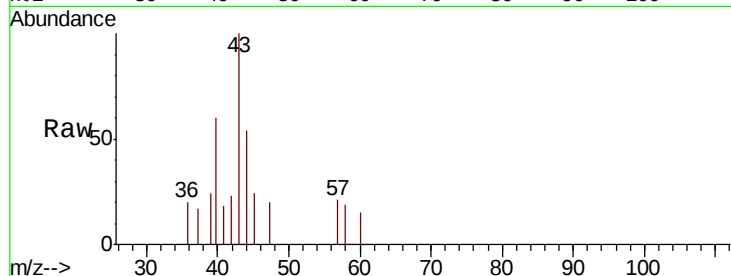
TP2-A

Tot Ion: 43 Resp: 1052

Ion Ratio Lower Upper

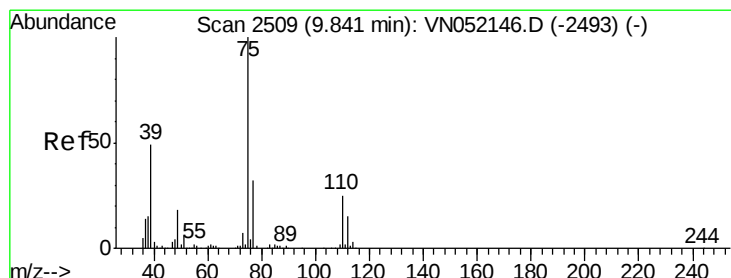
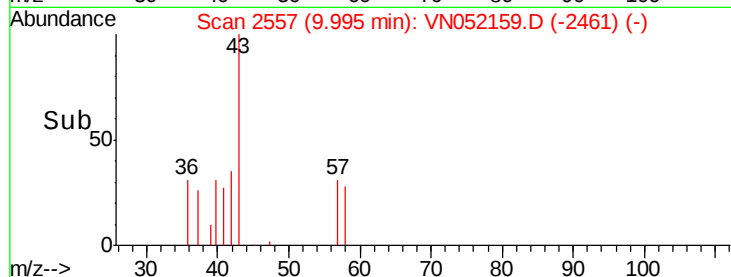
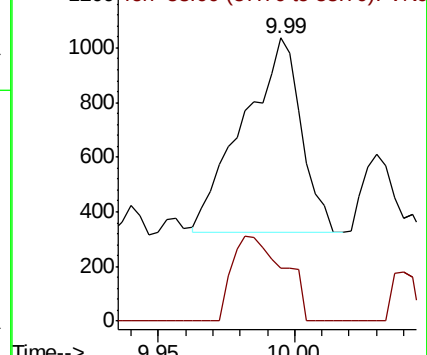
43 100

58 38.9 29.6 44.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 0.297 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

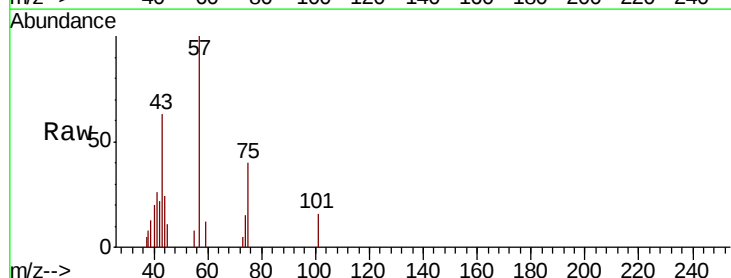
Tgt Ion: 75 Resp: 1789

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

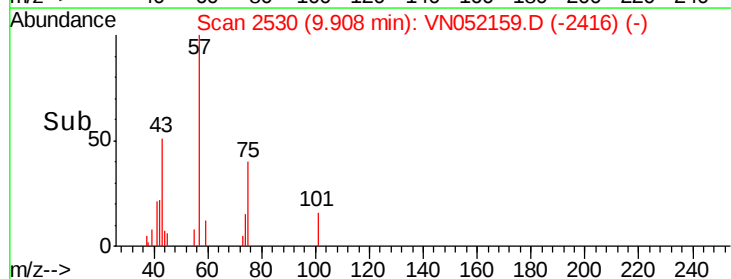
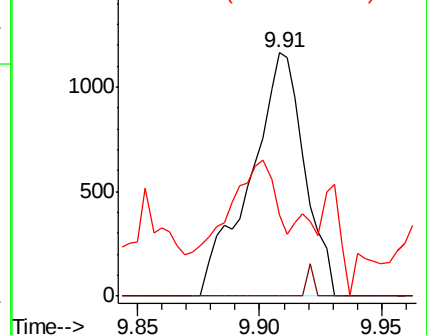
39 14.9 39.2 58.8#

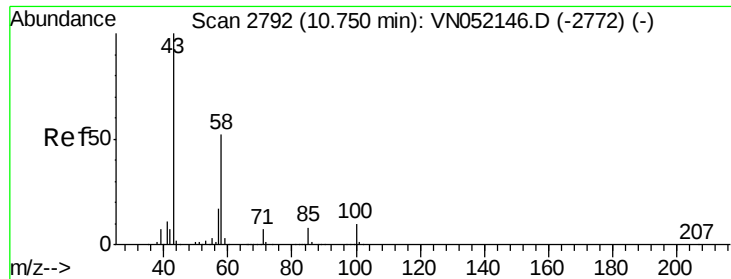


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

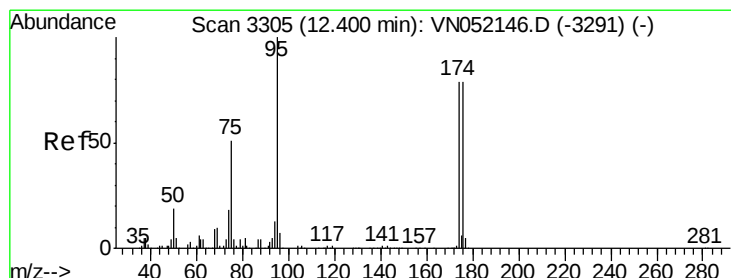
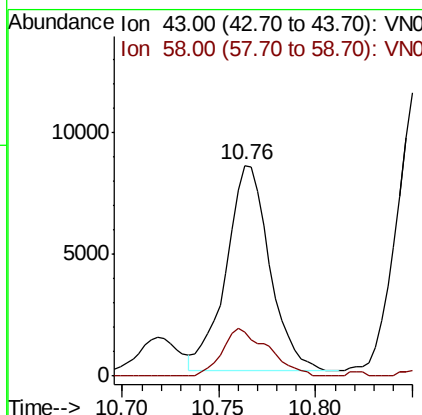
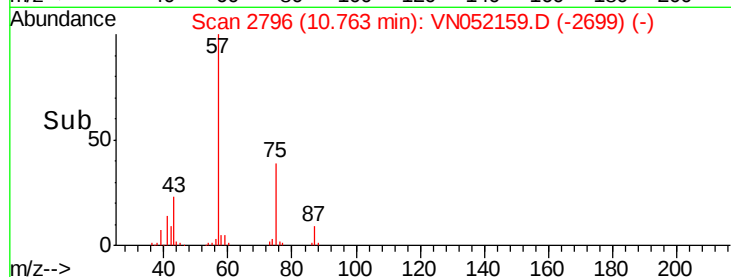
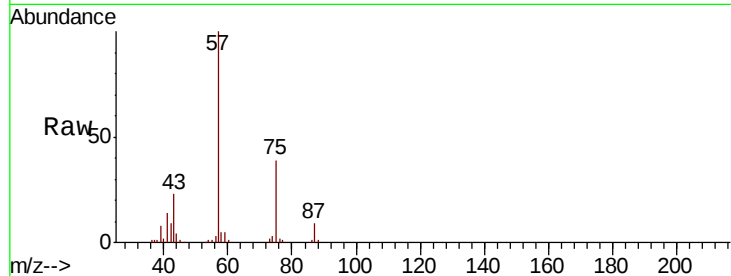




#59
2-Hexanone
Concen: 5.802 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

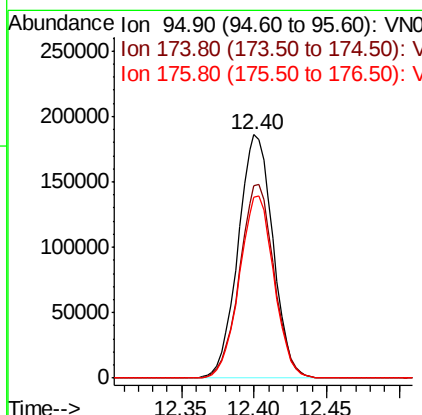
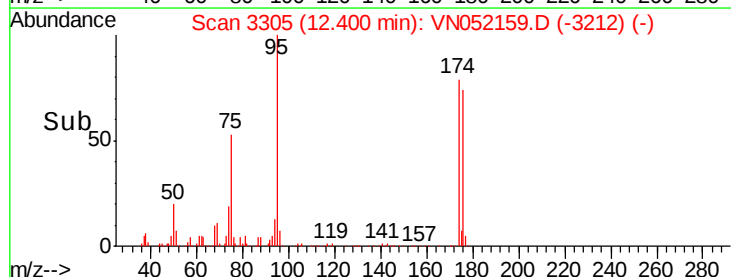
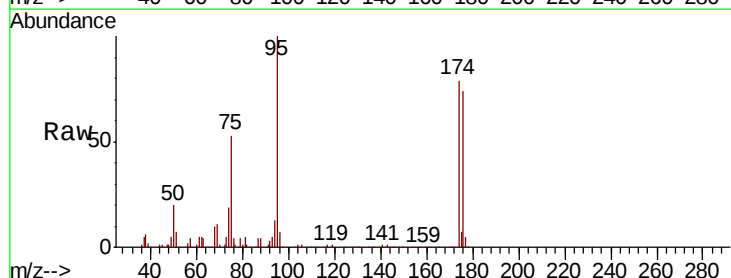
Instrument :
MSVOA_N
ClientSampled :
TP2-A

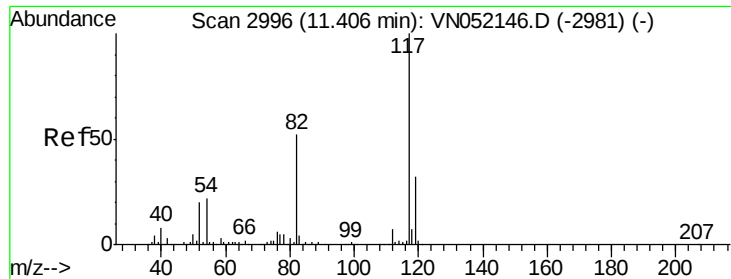
Tot Ion: 43 Resp: 13236
Ion Ratio Lower Upper
43 100
58 24.4 25.8 77.4#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion: 95 Resp: 310789
Ion Ratio Lower Upper
95 100
174 78.9 0.0 162.6
176 74.5 0.0 155.4

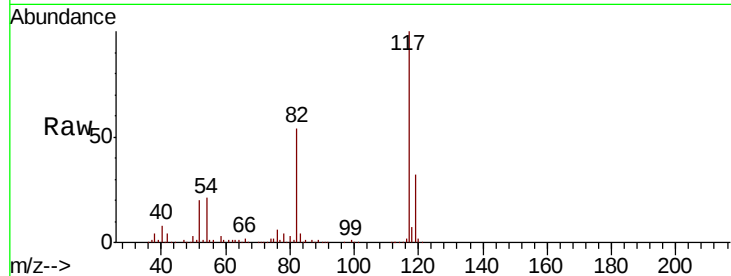




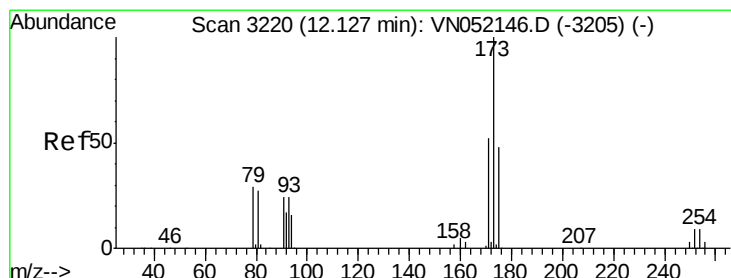
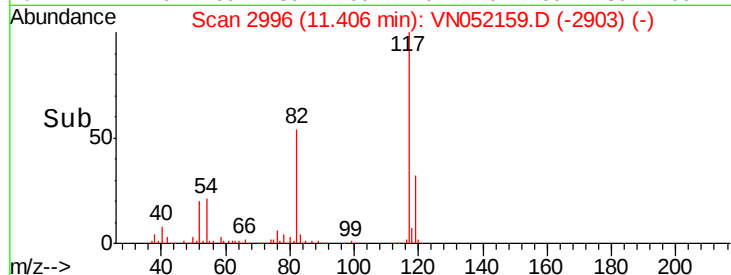
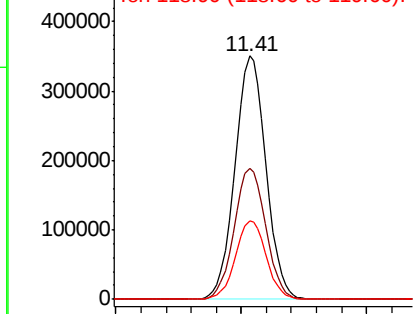
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Instrument :
MSVOA_N
ClientSampleId :
TP2-A

Tot Ion:117 Resp: 601334
Ion Ratio Lower Upper
117 100
82 54.0 41.9 62.9
119 32.2 25.7 38.5

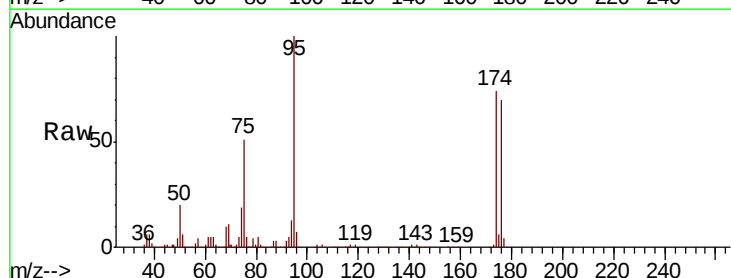


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

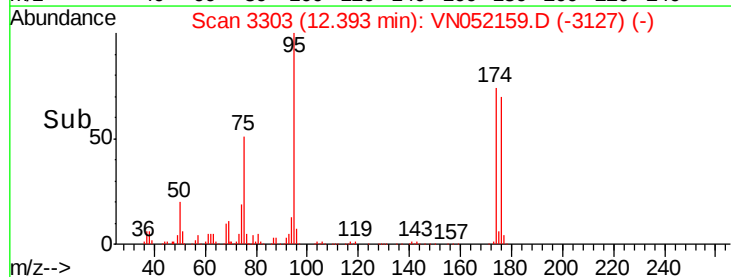
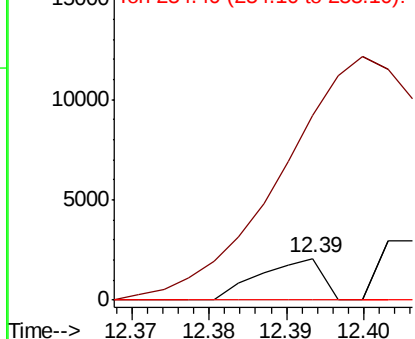


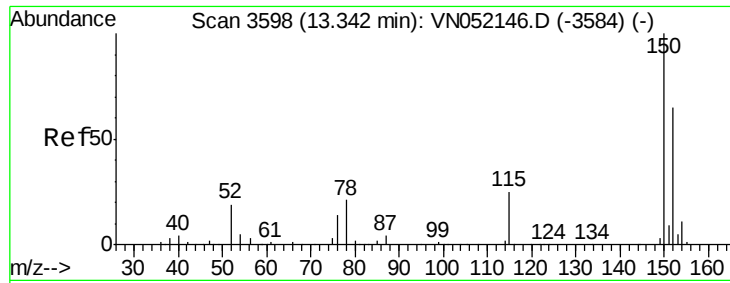
#71
Bromoform
Concen: 3.197 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052159.D
Acq: 5 Nov 2018 20:47

Tgt Ion:173 Resp: 1169
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
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: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampleId :

TP2-A

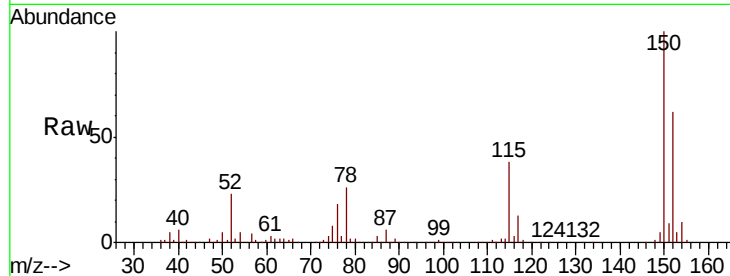
Tot Ion:152 Resp: 253132

Ion Ratio Lower Upper

152 100

115 60.2 28.5 85.5

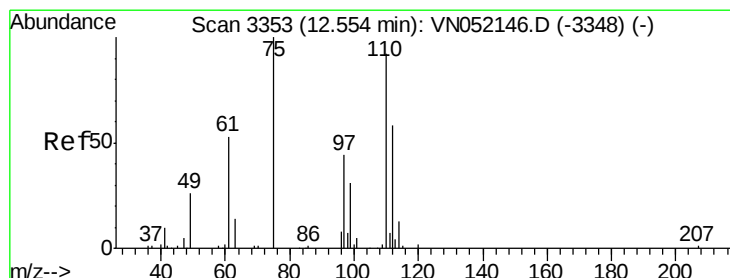
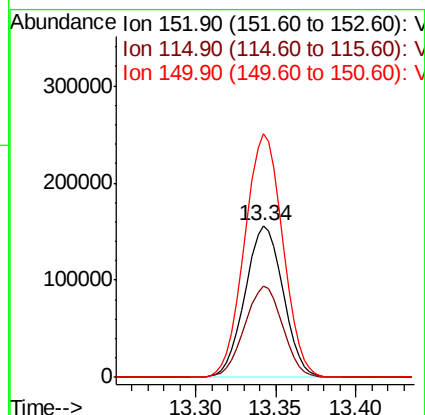
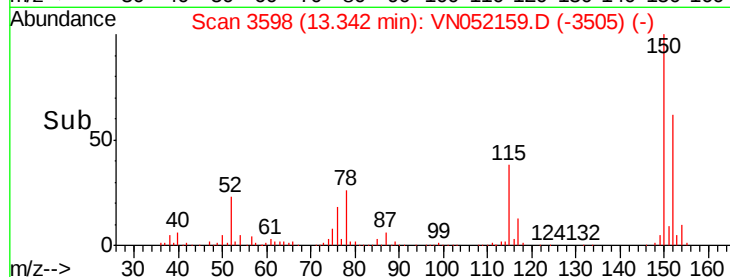
150 161.2 0.0 348.6



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: 40.270 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052159.D

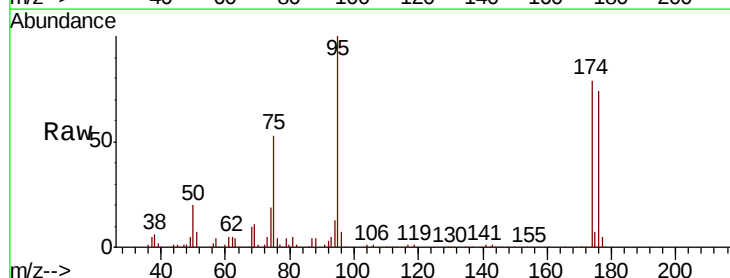
Acq: 5 Nov 2018 20:47

Tgt Ion: 75 Resp: 160421

Ion Ratio Lower Upper

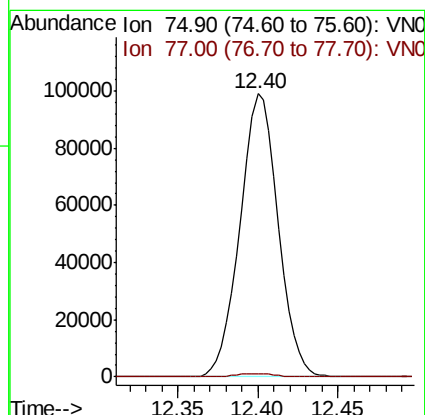
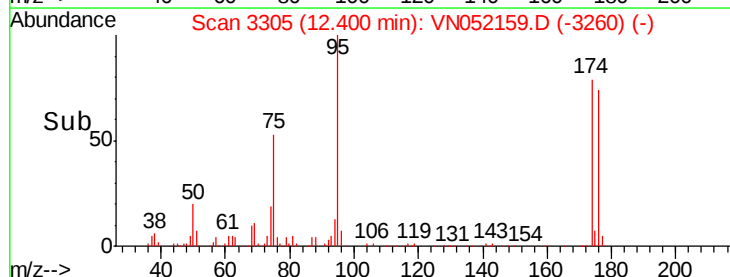
75 100

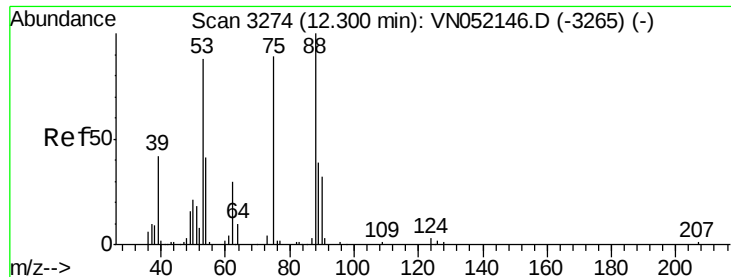
77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 144.194 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampled :

TP2-A

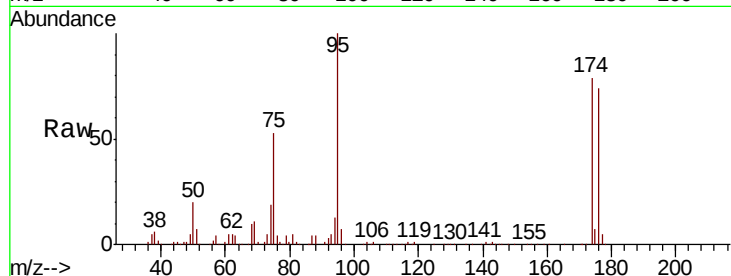
Tot Ion: 75 Resp: 160421

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

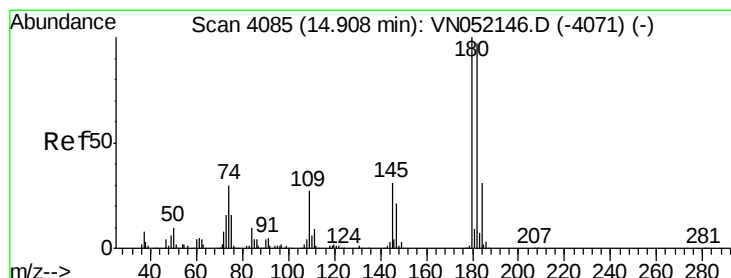
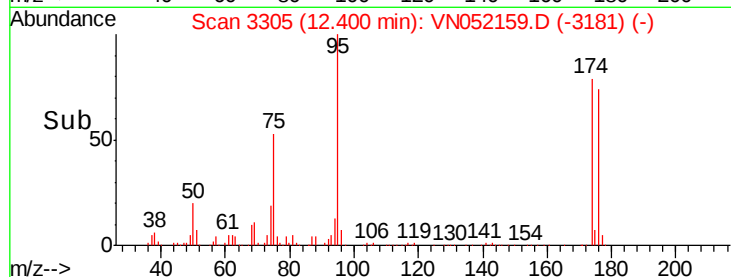
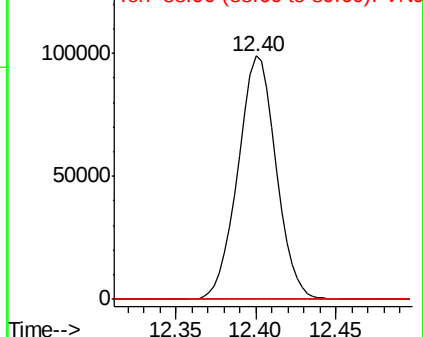
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052146.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052146.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052146.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.255 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

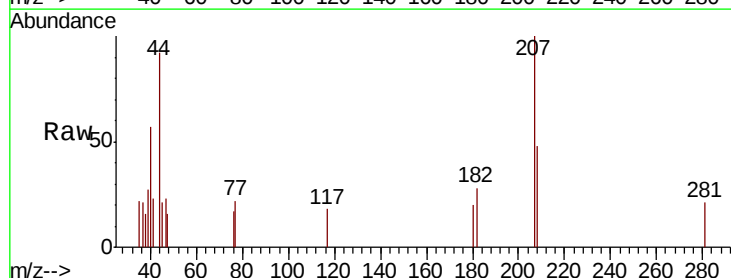
Tgt Ion: 180 Resp: 69

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

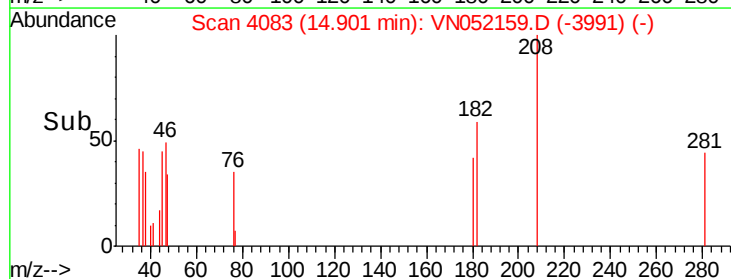
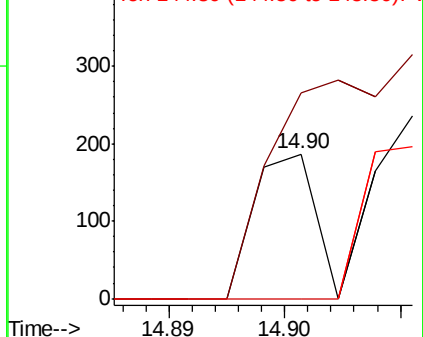
145 0.0 15.3 45.9#

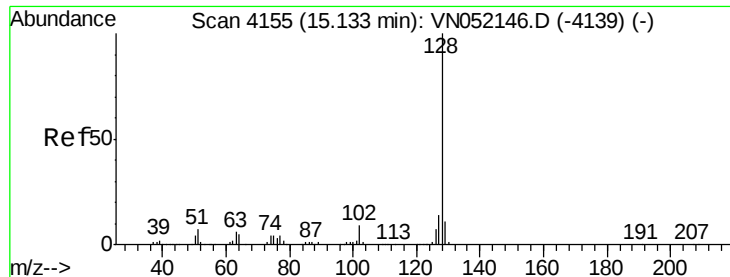


Abundance Ion 179.80 (179.50 to 180.50): VN052146.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052146.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052146.D (-4071) (-)





#95

Naphthalene

Concen: 3.010 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

Instrument :

MSVOA_N

ClientSampleId :

TP2-A

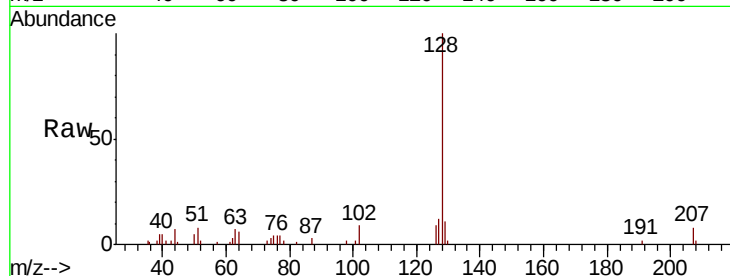
Tot Ion:128 Resp: 23331

Ion Ratio Lower Upper

128 100

127 12.5 10.8 16.2

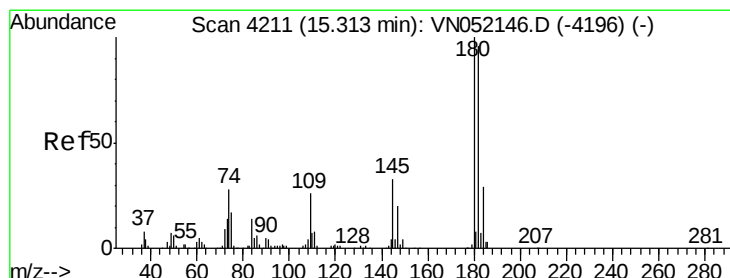
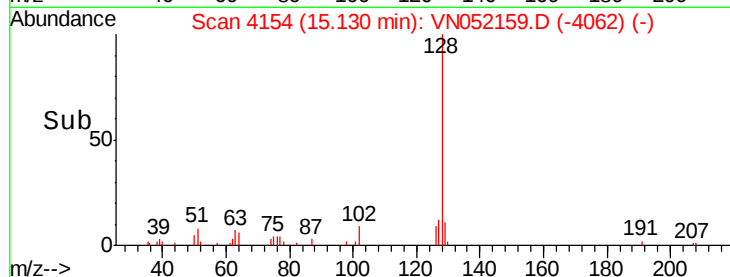
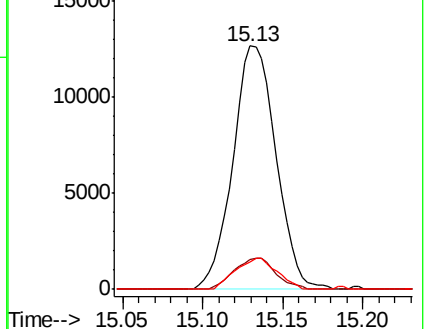
129 12.2 9.1 13.7



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



#96

1,2,3-Trichlorobenzene

Concen: 1.779 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052159.D

Acq: 5 Nov 2018 20:47

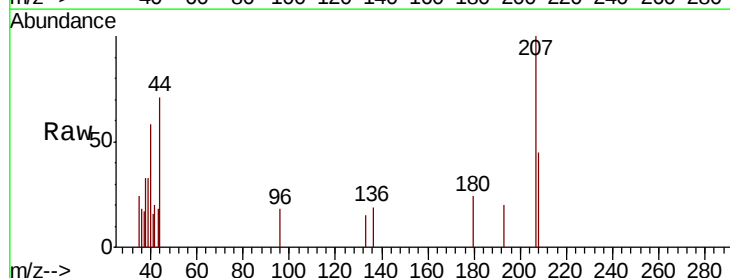
Tgt Ion:180 Resp: 157

Ion Ratio Lower Upper

180 100

182 66.2 46.6 139.7

145 135.0 16.7 50.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

