

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051680.D
 Acq On : 5 Oct 2018 12:24
 Operator : MD\SY
 Sample : J5260-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Oct 05 14:53:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	89911	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	508919	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	406199	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	185384	29.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.03%
60) 4-Bromofluorobenzene	12.40	95	142888	23.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.83%
63) Toluene-d8	10.09	98	594888	32.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.93%

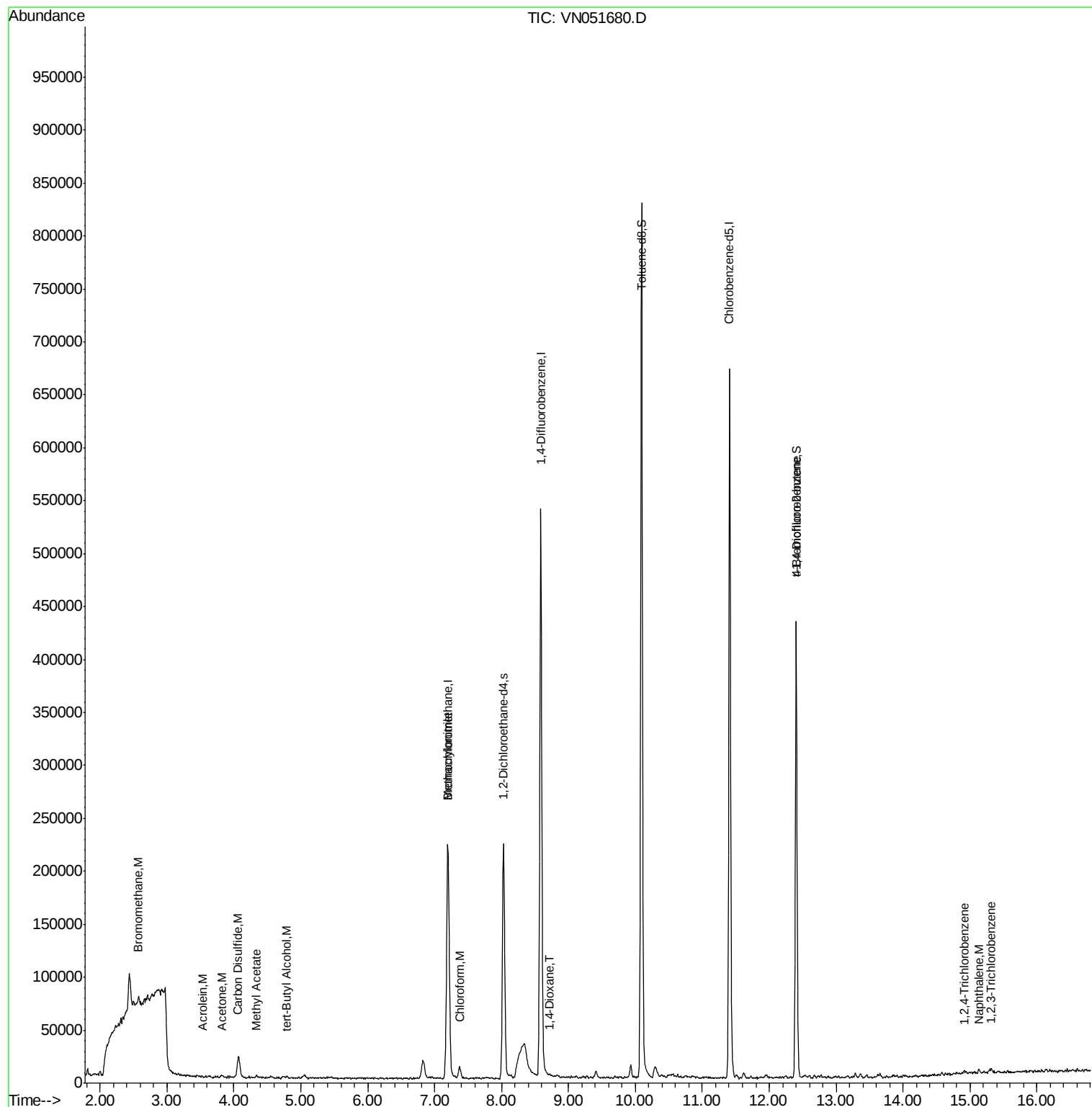
Target Compounds					Ovalue
5) Bromomethane	2.57	94	3223	0.529 ug/l	95
12) Methyl Acetate	4.33	43	788	0.238 ug/l	100
13) Acrolein	3.52	56	122	0.501 ug/l	83
15) Acetone	3.83	58	255	0.789 ug/l #	31
16) Carbon Disulfide	4.05	76	6434	0.536 ug/l #	93
23) tert-Butyl Alcohol	4.79	59	271	0.776 ug/l #	100
25) Chloroform	7.37	83	8868	0.914 ug/l	96
35) Methacrylonitrile	7.19	41	674	0.371 ug/l #	20
45) 1,4-Dioxane	8.72	88	138	2.849 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	77275	50.706 ug/l #	12
89) 1,2,4-Trichlorobenzene	14.91	180	1056	6.999 ug/l #	46
91) Naphthalene	15.14	128	3674	0.376 ug/l #	89
92) 1,2,3-Trichlorobenzene	15.32	180	898	0.201 ug/l	23

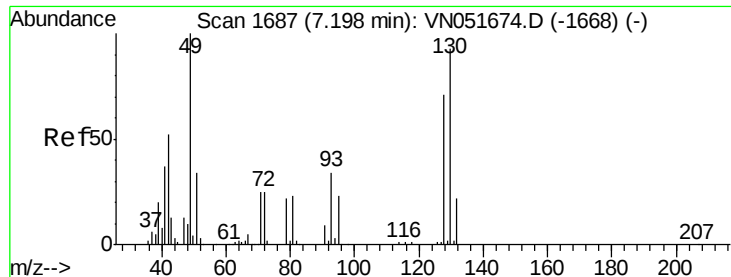
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100518\
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ALS Vial : 9 Sample Multiplier: 28

Instrument :
MSVOA_N
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SPDES-1

Quant Time: Oct 05 14:53:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 05 11:11:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

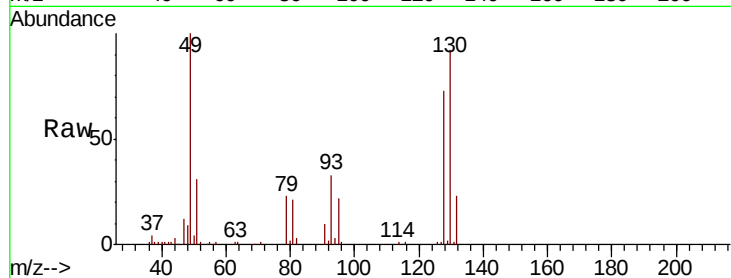
Tot Ion:128 Resp: 89911

Ion Ratio Lower Upper

128 100

49 143.8 0.0 403.3

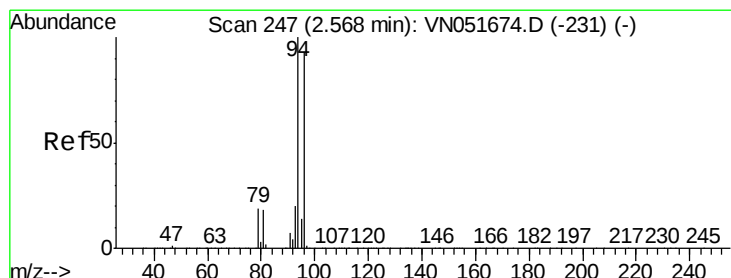
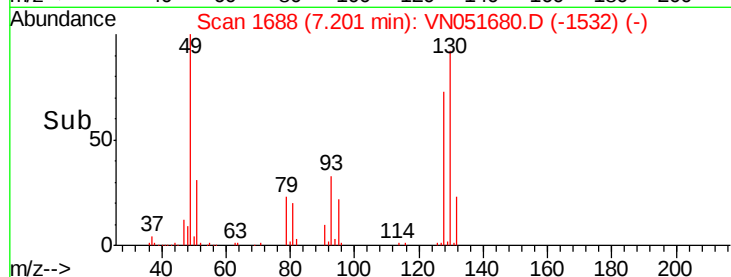
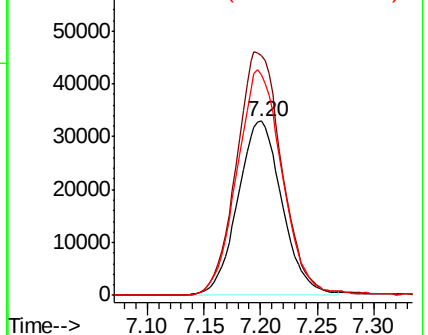
130 131.9 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.529 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051680.D

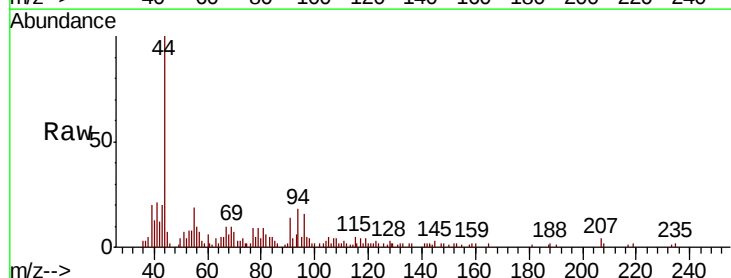
Acq: 5 Oct 2018 12:24

Tgt Ion: 94 Resp: 3223

Ion Ratio Lower Upper

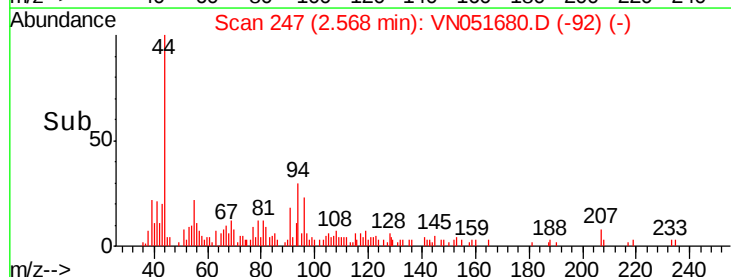
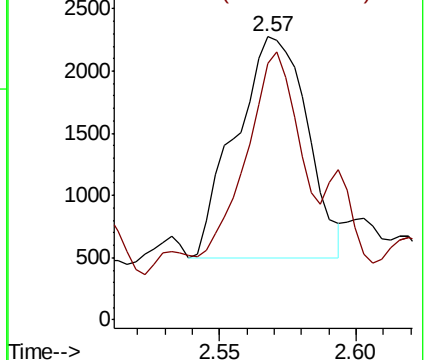
94 100

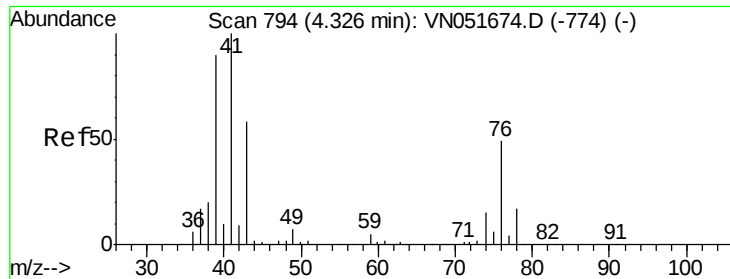
96 87.4 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

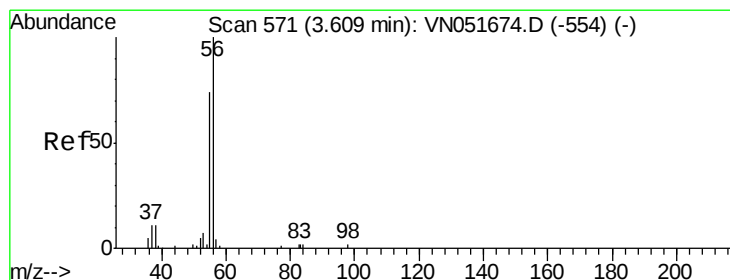
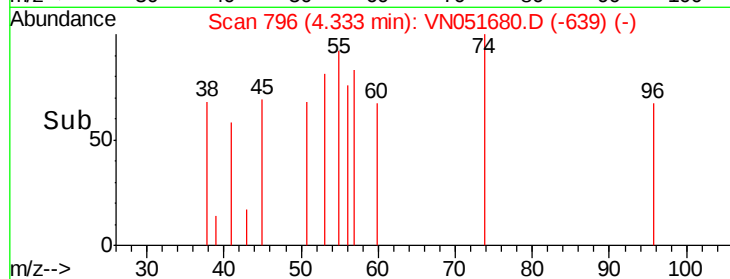
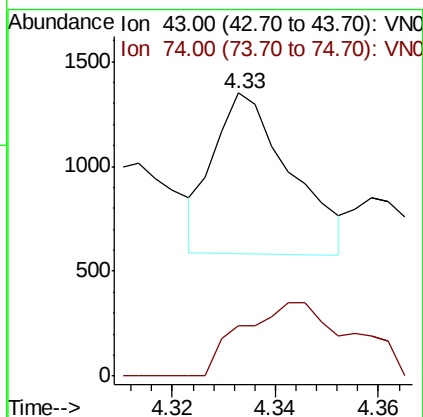
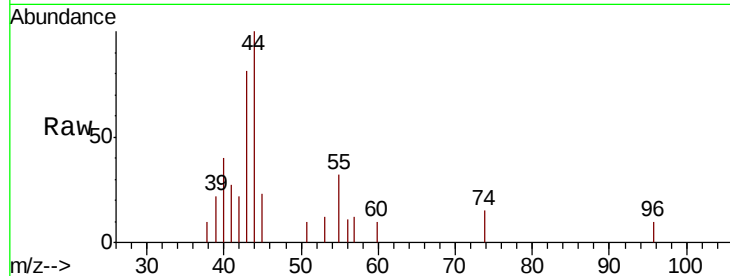




#12
Methyl Acetate
Concen: 0.238 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

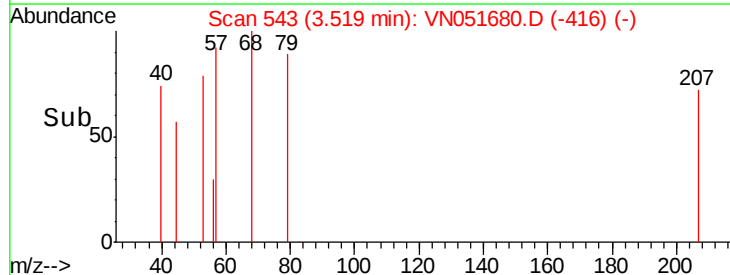
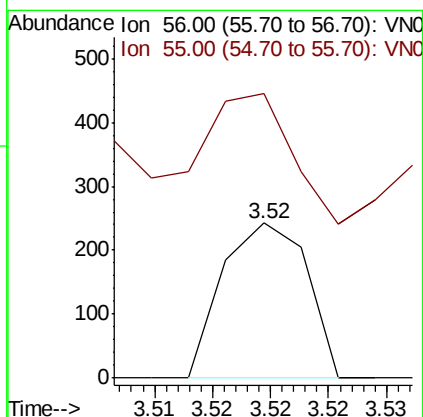
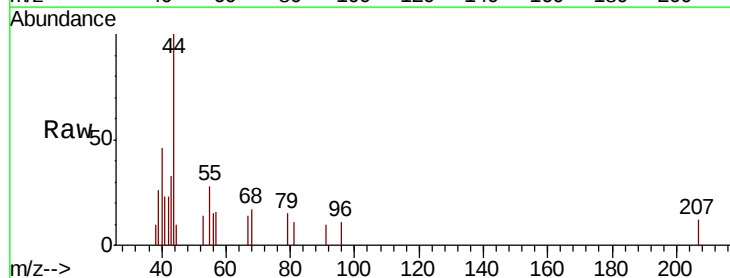
Instrument :
MSVOA_N
ClientSampled :
SPDES-1

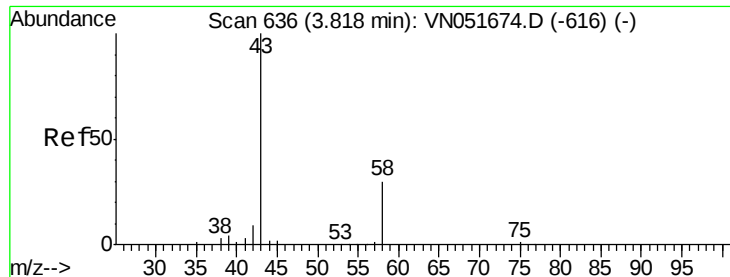
Tot Ion: 43 Resp: 788
Ion Ratio Lower Upper
43 100
74 27.0 21.8 32.6



#13
Acrolein
Concen: 0.501 ug/l
RT: 3.52 min Scan# 543
Delta R.T. -0.09 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 95.1 64.0 96.0





#15

Acetone

Concen: 0.789 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampled :

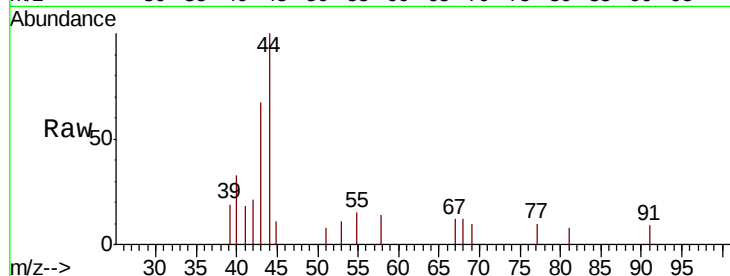
SPDES-1

Tot Ion: 58 Resp: 255

Ion Ratio Lower Upper

58 100

43 157.0 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

1500

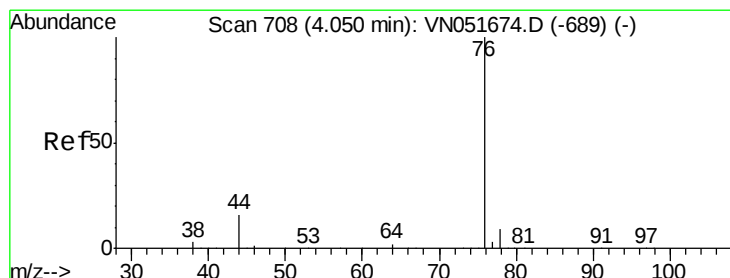
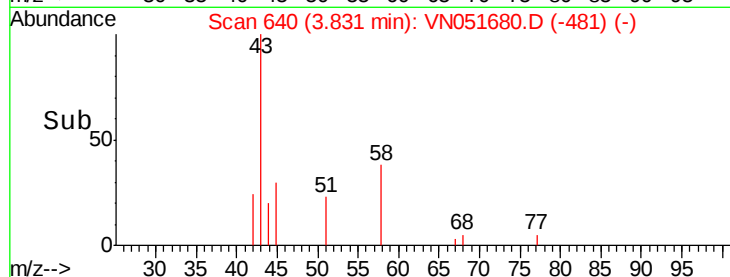
1000

500

0

3.82 3.83 3.84 3.85

Time-->



#16

Carbon Disulfide

Concen: 0.536 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051680.D

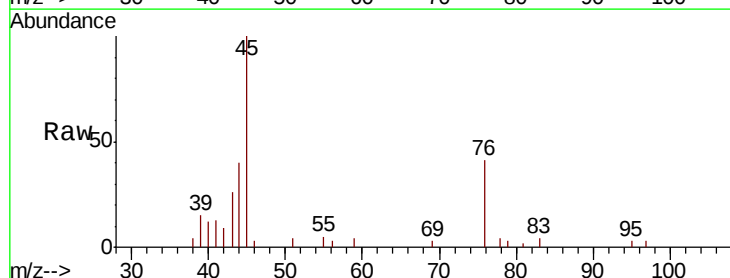
Acq: 5 Oct 2018 12:24

Tgt Ion: 76 Resp: 6434

Ion Ratio Lower Upper

76 100

78 11.0 6.7 10.1#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

3000

2500

2000

1500

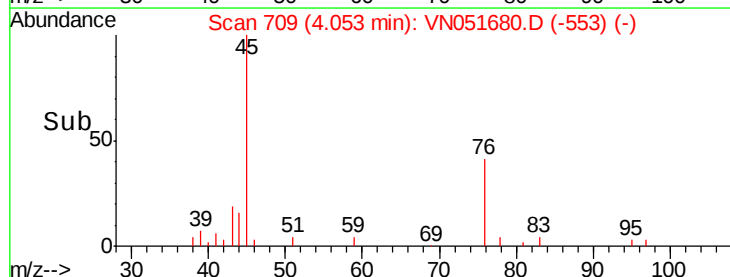
1000

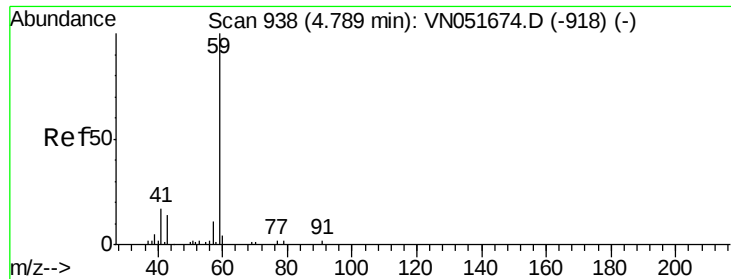
500

0

4.00 4.05 4.10

Time-->





#23

tert-Butyl Alcohol

Concen: 0.776 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

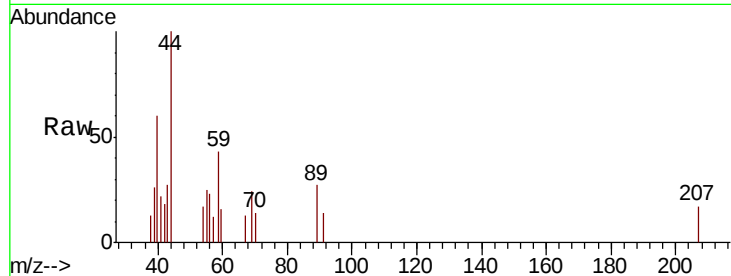
SPDES-1

Tot Ion: 59 Resp: 271

Ion Ratio Lower Upper

59 100

52 23.2 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN051674.D (-918) (-)

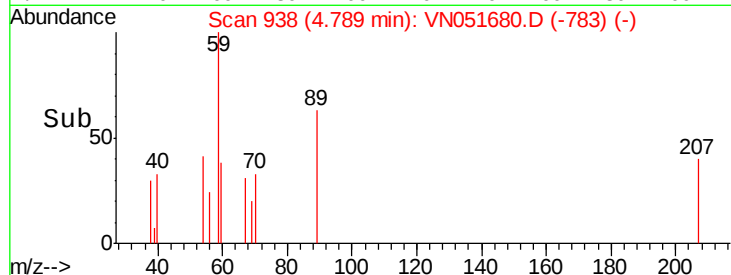
Ion 52.00 (51.70 to 52.70): VN051674.D (-918) (-)

4.79

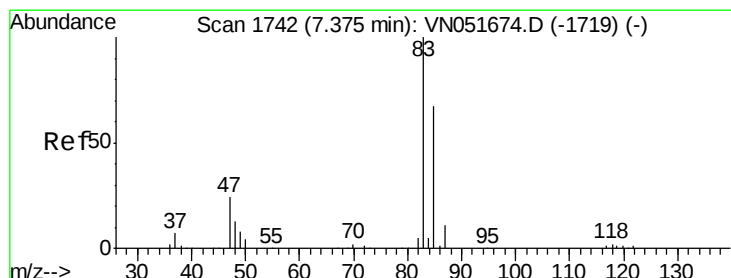
4.78

4.80

4.81



Time-->



#25

Chloroform

Concen: 0.914 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051680.D

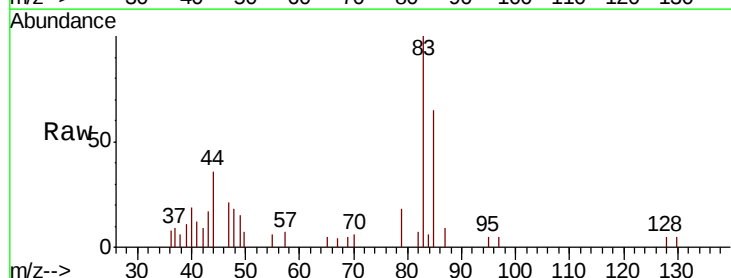
Acq: 5 Oct 2018 12:24

Tgt Ion: 83 Resp: 8868

Ion Ratio Lower Upper

83 100

85 65.5 54.6 82.0



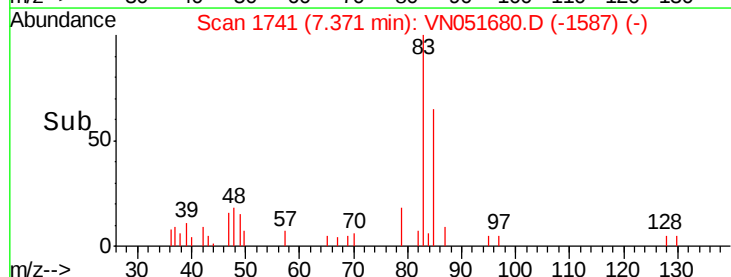
Abundance Ion 83.00 (82.70 to 83.70): VN051674.D (-1719) (-)

Ion 85.00 (84.70 to 85.70): VN051674.D (-1719) (-)

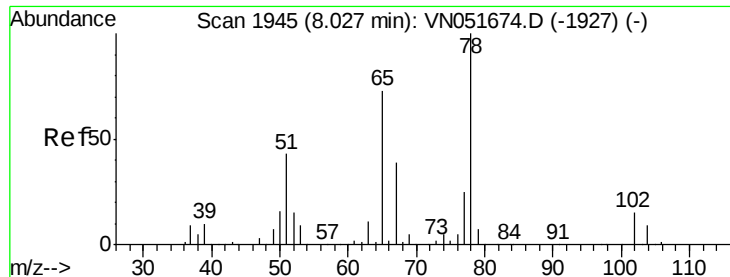
7.37

7.35

7.40



Time-->



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

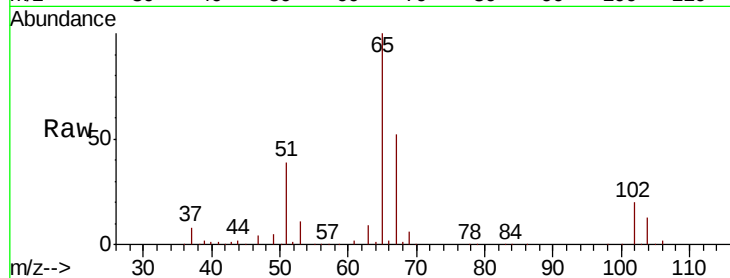
SPDES-1

Tot Ion: 65 Resp: 185384

Ion Ratio Lower Upper

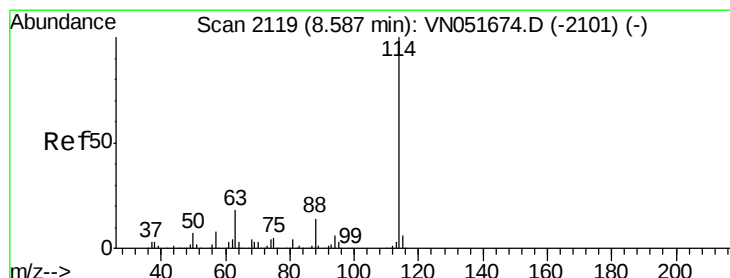
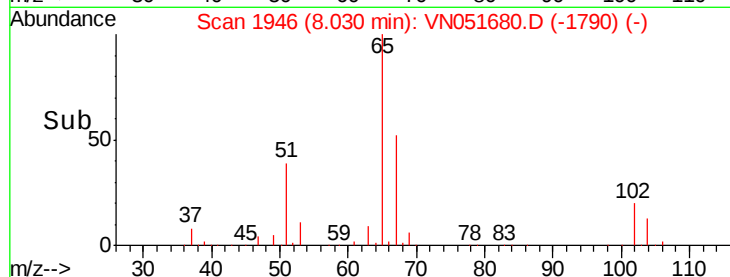
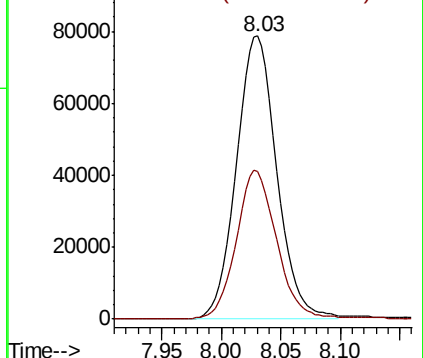
65 100

67 52.5 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051674.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051674.D (-1927) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

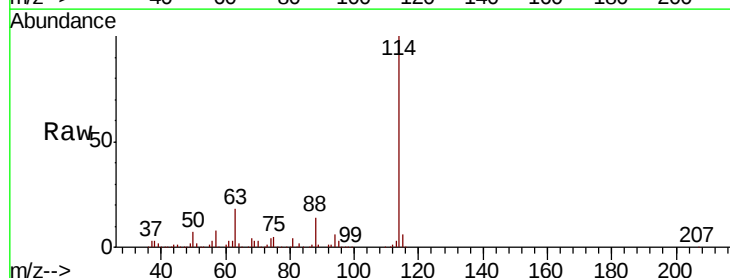
Tgt Ion: 114 Resp: 508919

Ion Ratio Lower Upper

114 100

63 18.4 16.2 24.2

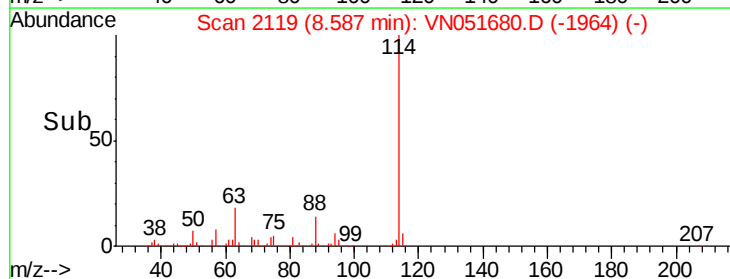
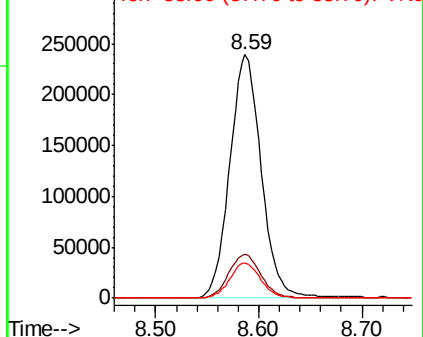
88 14.2 12.2 18.4

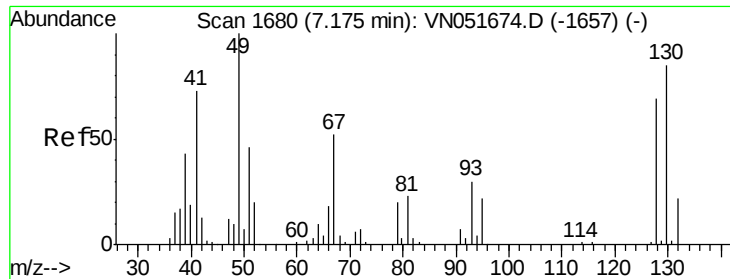


Abundance Ion 114.00 (113.70 to 114.70): VN051674.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051674.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051674.D (-2101) (-)

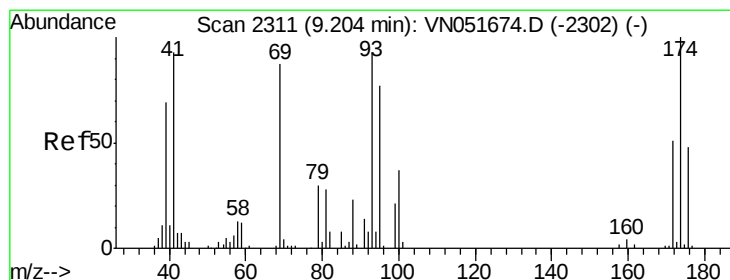
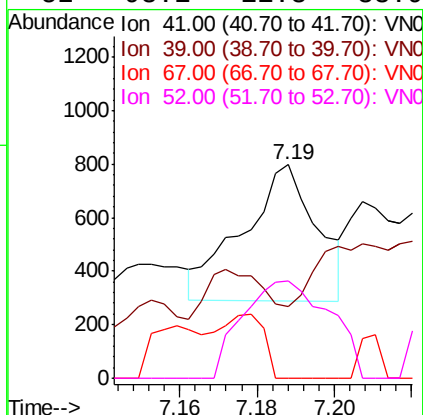
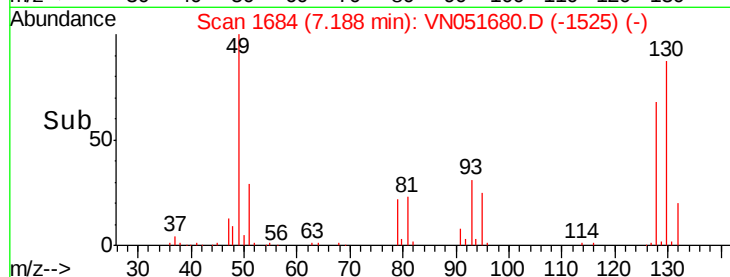
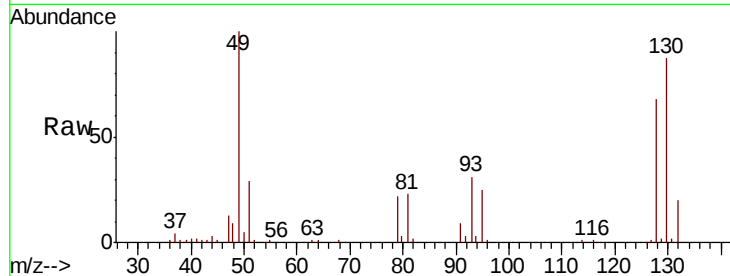




#35
Methacrylonitrile
Concen: 0.371 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

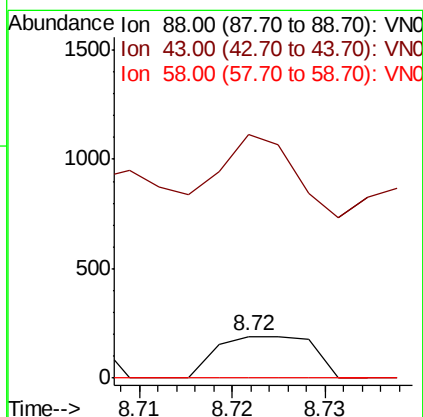
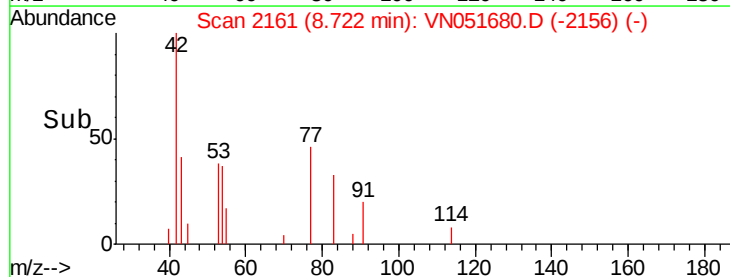
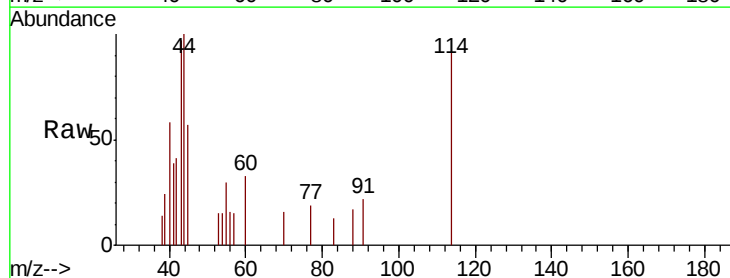
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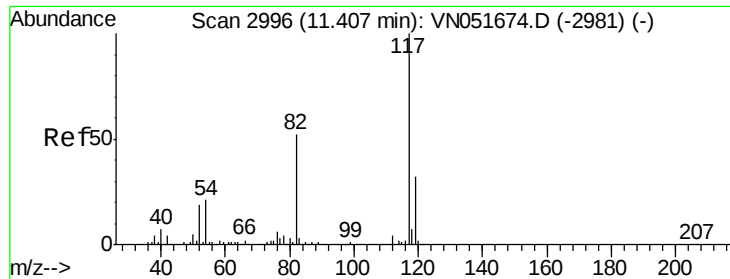
Tot Ion: 41 Resp: 674
Ion Ratio Lower Upper
41 100
39 13.3 22.6 67.7#
67 0.0 28.9 86.8#
52 93.1 11.3 33.9#



#45
1,4-Dioxane
Concen: 2.849 ug/l
RT: 8.72 min Scan# 2161
Delta R.T. -0.48 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

Tgt Ion: 88 Resp: 138
Ion Ratio Lower Upper
88 100
43 144.9 26.2 39.2#
58 0.0 65.6 98.4#

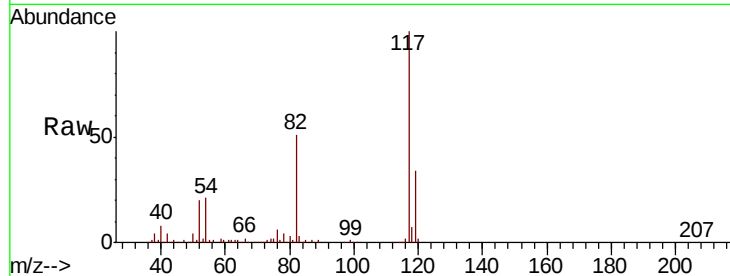




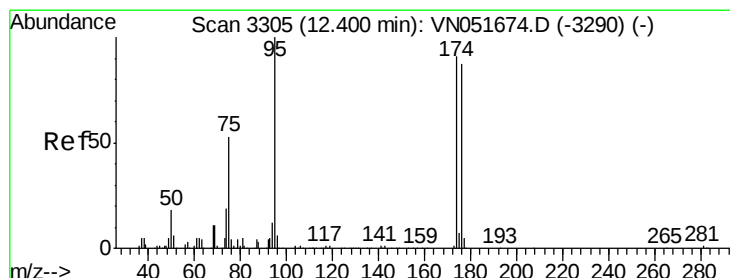
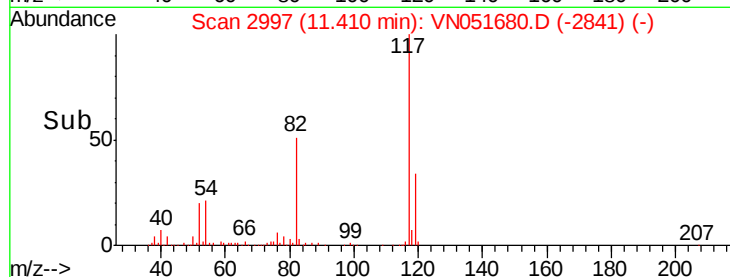
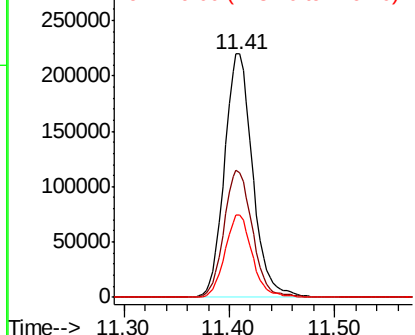
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tot Ion:117 Resp: 406199
Ion Ratio Lower Upper
117 100
82 52.6 44.1 66.1
119 32.9 25.8 38.8

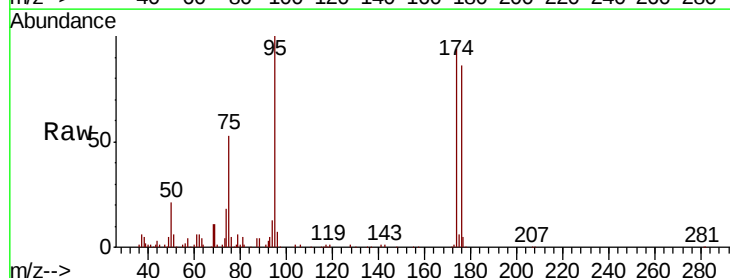


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

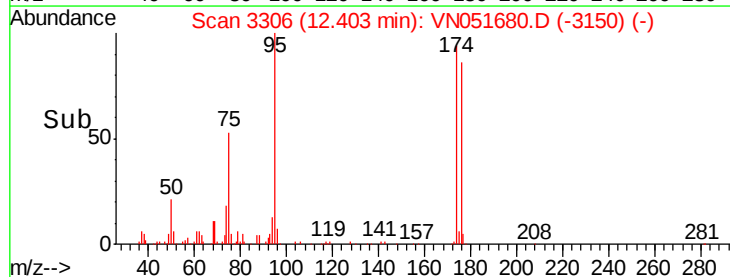
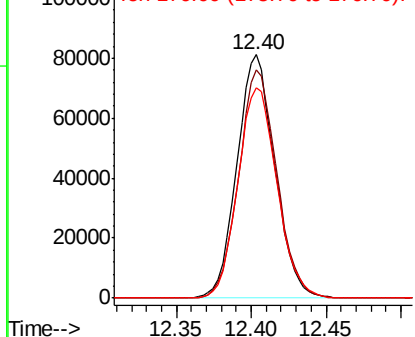


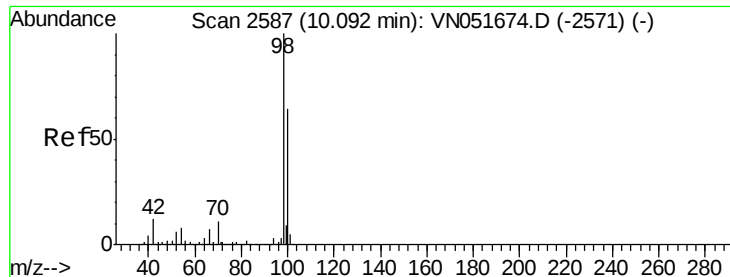
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051680.D
Acq: 5 Oct 2018 12:24

Tgt Ion: 95 Resp: 142888
Ion Ratio Lower Upper
95 100
174 94.2 73.5 110.3
176 89.3 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): V
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

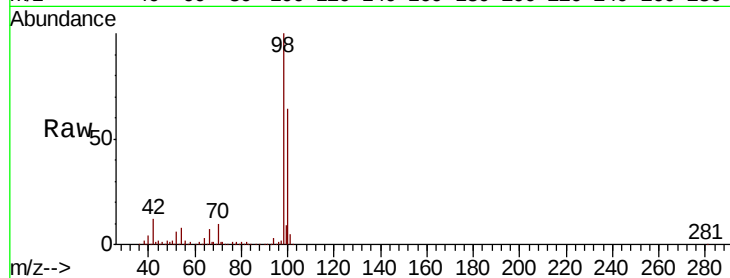
SPDES-1

Tot Ion: 98 Resp: 594888

Ion Ratio Lower Upper

98 100

100 62.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051674.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051674.D (-2571) (-)

10.09

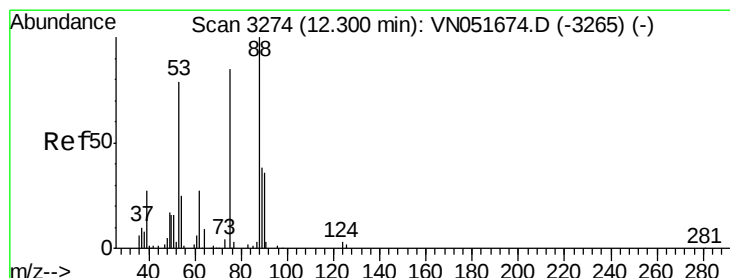
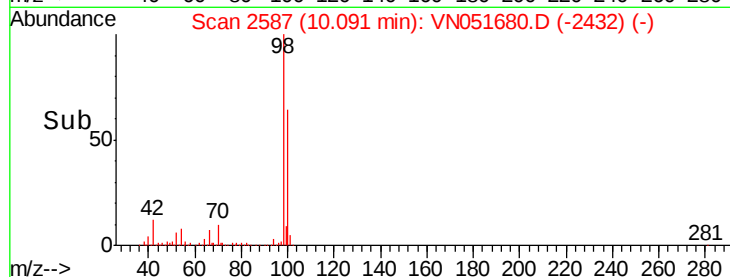
300000

200000

100000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 50.706 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051680.D

Acq: 5 Oct 2018 12:24

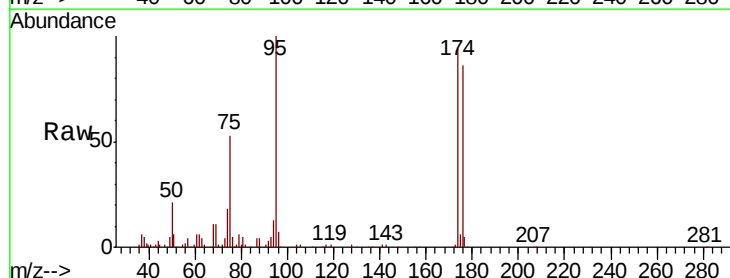
Tgt Ion: 75 Resp: 77275

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051680.D (-3119) (-)

Ion 53.00 (52.70 to 53.70): VN051680.D (-3119) (-)

Ion 89.00 (88.70 to 89.70): VN051680.D (-3119) (-)

12.40

60000

50000

40000

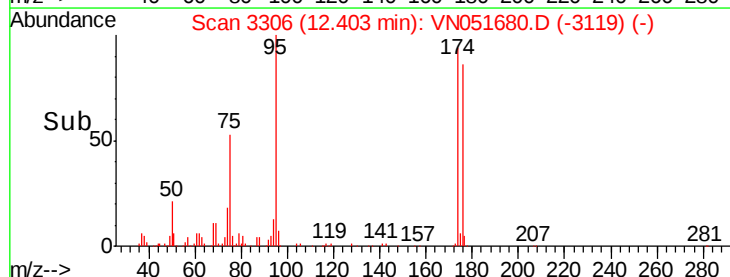
30000

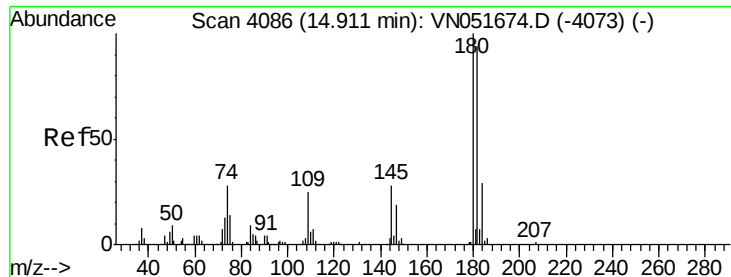
20000

10000

0

Time-->

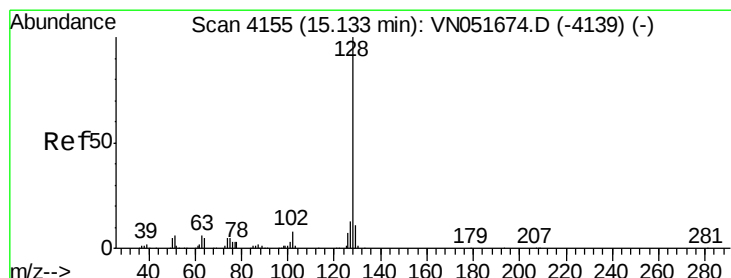
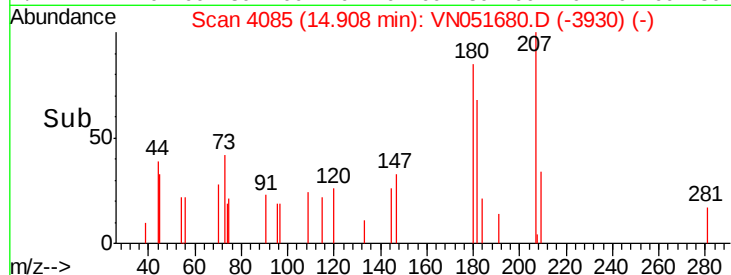
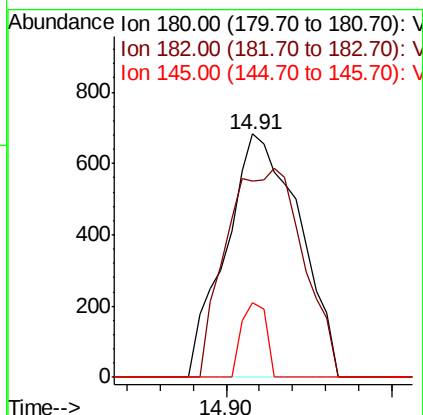
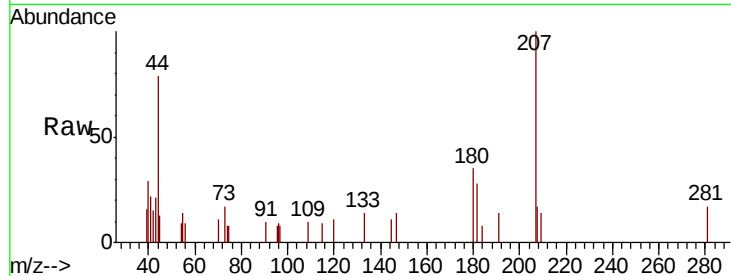




#89
 1,2,4-Trichlorobenzene
 Concen: 6.999 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051680.D
 Acq: 5 Oct 2018 12:24

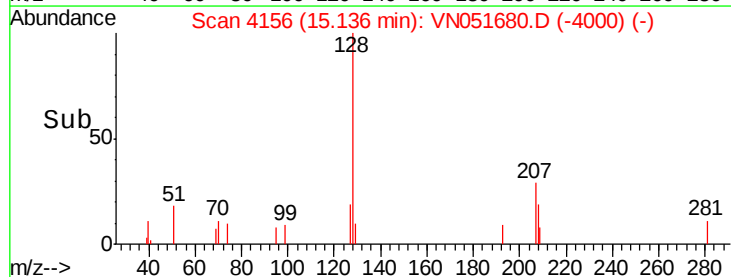
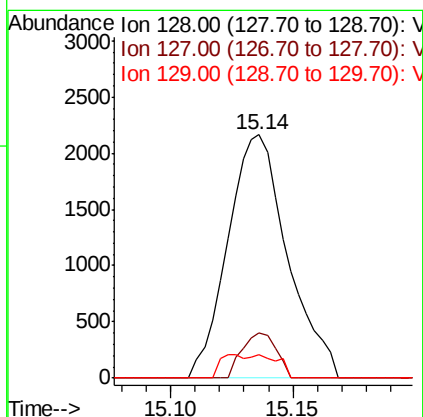
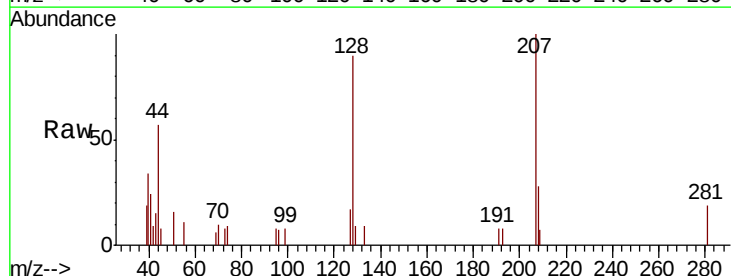
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

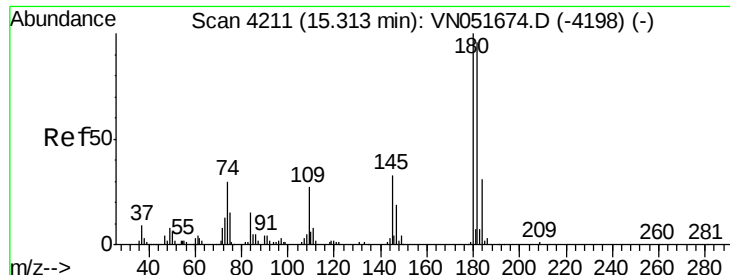
Tot Ion:180 Resp: 1056
 Ion Ratio Lower Upper
 180 100
 182 38.0 77.7 116.5#
 145 10.2 23.4 35.2#



#91
 Naphthalene
 Concen: 0.376 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051680.D
 Acq: 5 Oct 2018 12:24

Tgt Ion:128 Resp: 3674
 Ion Ratio Lower Upper
 128 100
 127 10.6 10.1 15.1
 129 3.8 8.4 12.6#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.201 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN051680.D
 Acq: 5 Oct 2018 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	12.4	0.0	198.0
145	28.1	0.0	36.8

