

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091818\
 Data File : VN051294.D
 Acq On : 18 Sep 2018 13:47
 Operator : MD\SY
 Sample : J4921-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 14:56:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	98310	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	474820	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	379950	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	178790	28.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.00%
60) 4-Bromofluorobenzene	12.40	95	111008	19.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	65.50%
63) Toluene-d8	10.09	98	548071	30.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.10%

Target Compounds

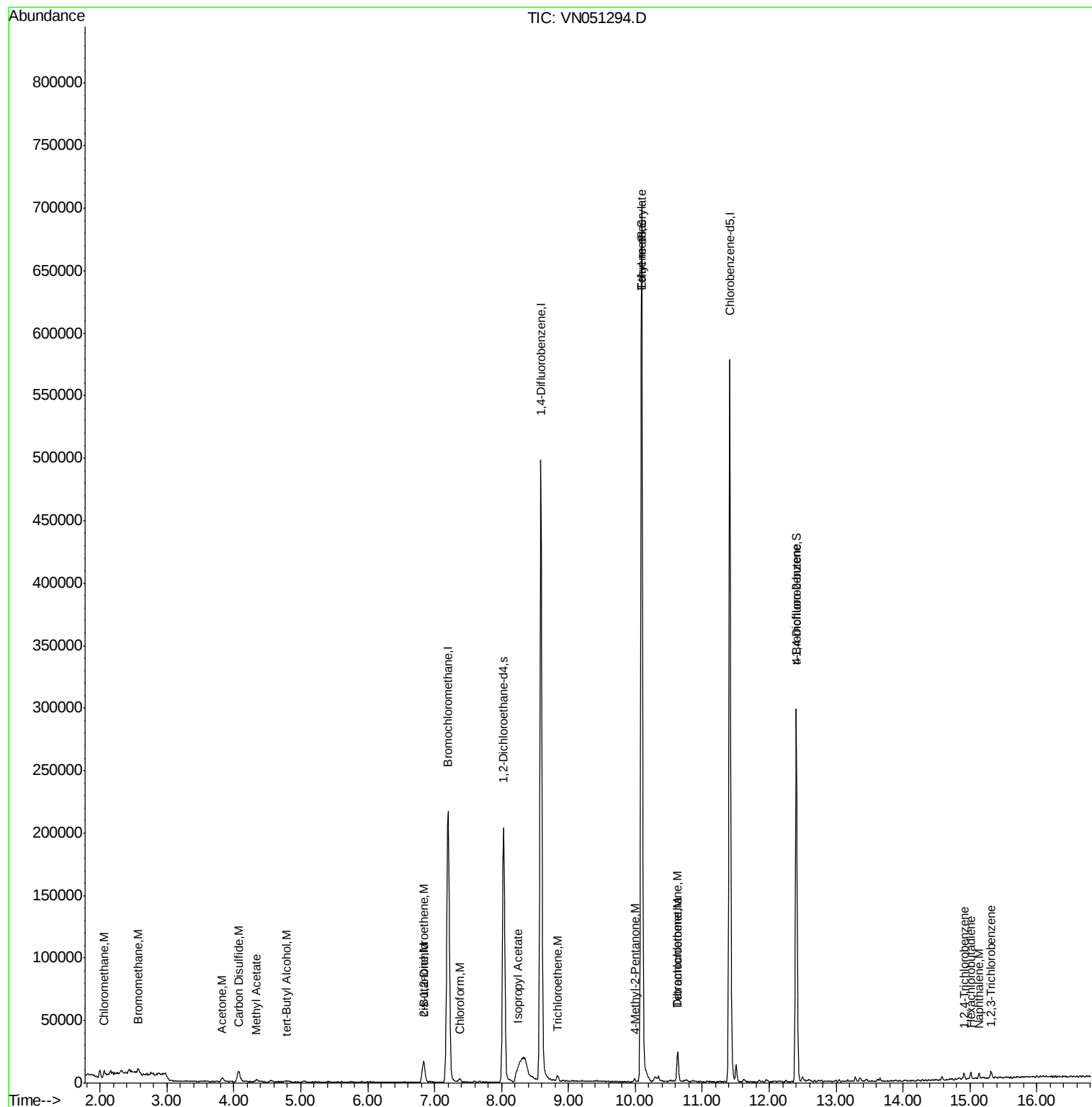
					Ovalue
3) Chloromethane	2.06	50	3844	0.533	ug/l 100
5) Bromomethane	2.57	94	2225	0.512	ug/l 85
12) Methyl Acetate	4.34	43	2383	0.388	ug/l 96
15) Acetone	3.83	58	1418	2.668	ug/l # 37
16) Carbon Disulfide	4.06	76	5259	0.329	ug/l # 93
22) cis-1,2-Dichloroethene	6.83	96	10334	1.616	ug/l 90
23) tert-Butyl Alcohol	4.79	59	344	0.779	ug/l # 100
25) Chloroform	7.37	83	2846	0.268	ug/l # 83
30) 2-Butanone	6.84	43	607	0.278	ug/l # 53
37) Trichloroethene	8.84	130	1758	0.306	ug/l 85
44) Isopropyl Acetate	8.24	43	5733	0.725	ug/l # 81
51) Ethyl methacrylate	10.10	69	1663	0.270	ug/l # 69
53) Dibromochloromethane	10.63	129	5660	0.990	ug/l # 10
58) 4-Methyl-2-Pentanone	9.99	43	2231	0.513	ug/l # 65
61) Tetrachloroethene	10.63	164	6303	1.331	ug/l 96
77) t-1,4-Dichloro-2-butene	12.40	75	48715	34.128	ug/l # 13
89) 1,2,4-Trichlorobenzene	14.91	180	1970	0.471	ug/l 90
90) Hexachlorobutadiene	15.01	225	1295	0.456	ug/l 88
91) Naphthalene	15.14	128	4234	8.903	ug/l 97
92) 1,2,3-Trichlorobenzene	15.31	180	2303	0.549	ug/l 58

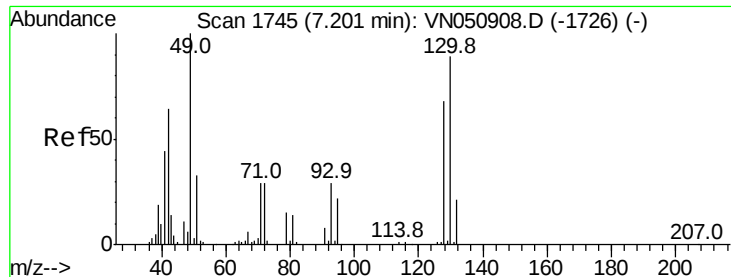
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091818\
Data File : VN051294.D
Acq On : 18 Sep 2018 13:47
Operator : MD\SY
Sample : J4921-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 18 14:56:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :

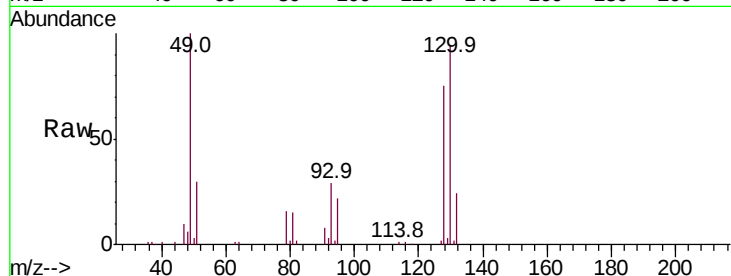
Tot Ion:128 Resp: 98310

Ion Ratio Lower Upper

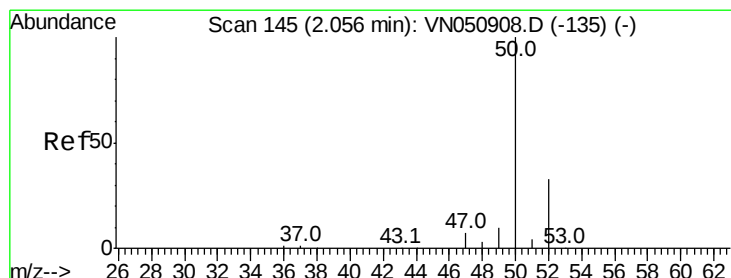
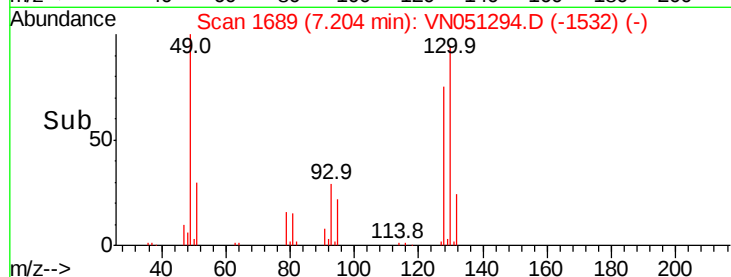
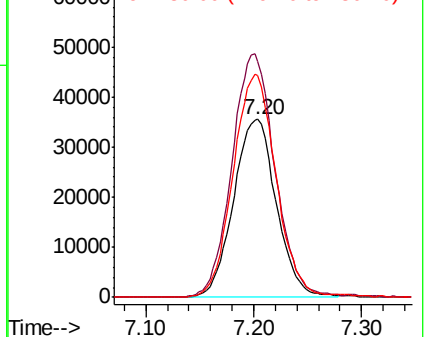
128 100

49 137.8 0.0 380.3

130 125.3 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.533 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051294.D

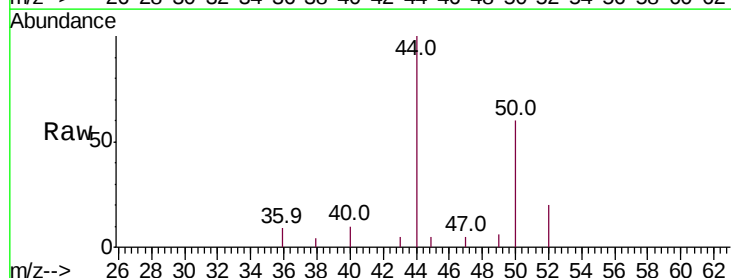
Acq: 18 Sep 2018 13:47

Tgt Ion: 50 Resp: 3844

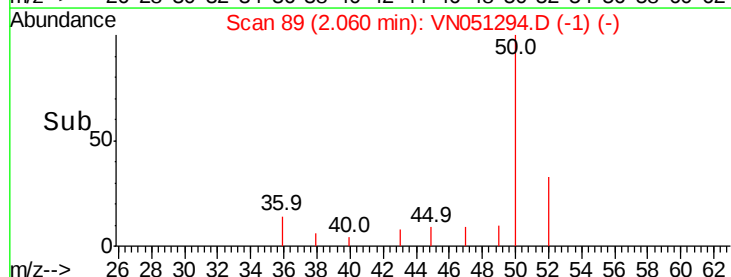
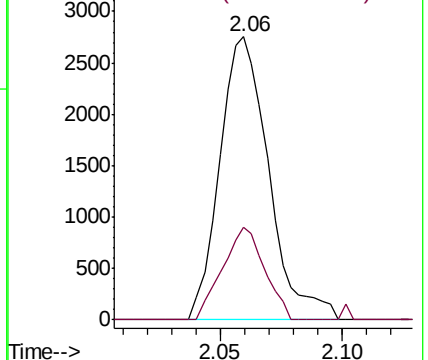
Ion Ratio Lower Upper

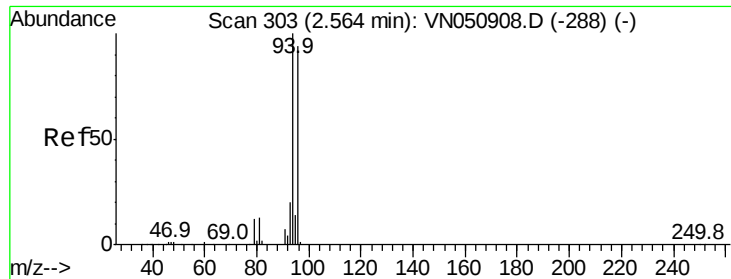
50 100

52 32.7 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN

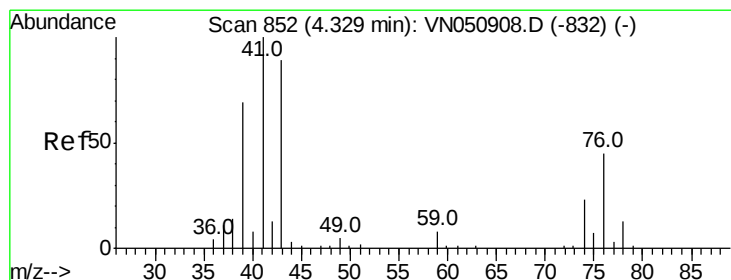
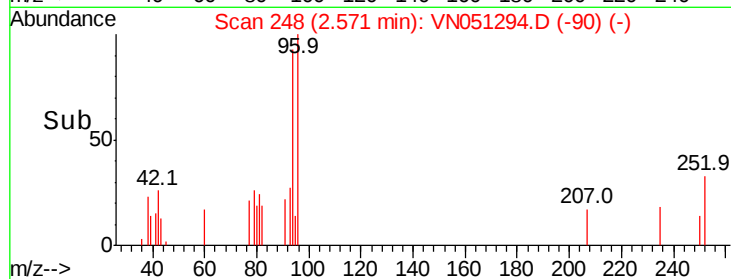
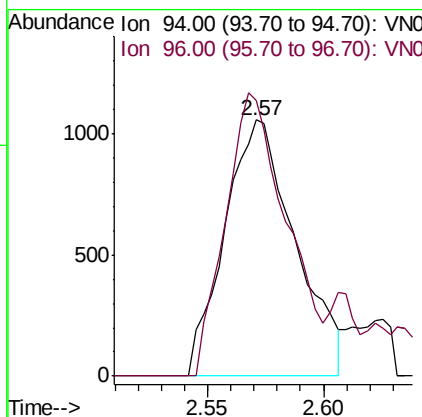
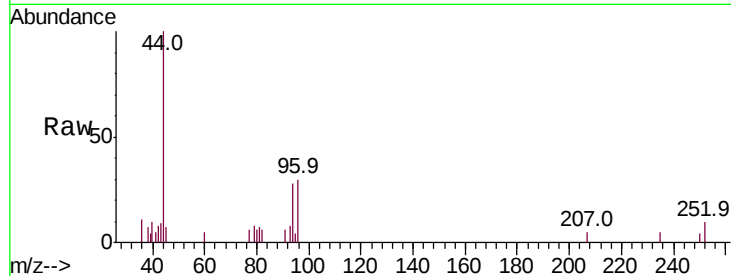




#5
Bromomethane
Concen: 0.512 ug/l
RT: 2.57 min Scan# 248
Delta R.T. 0.01 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

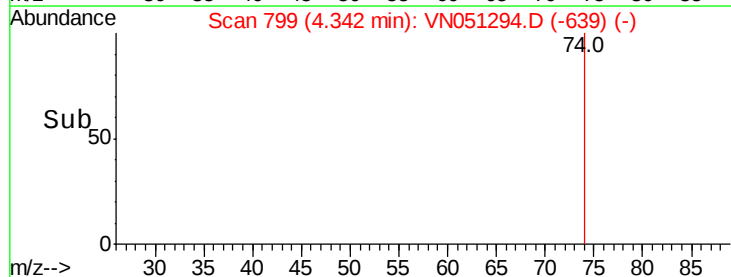
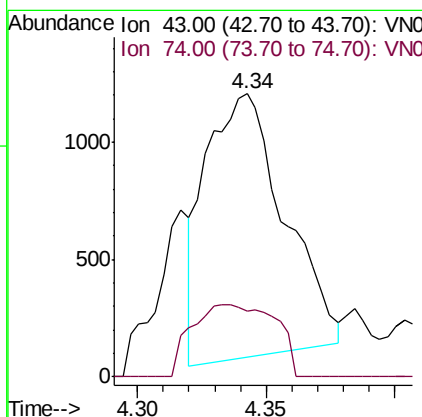
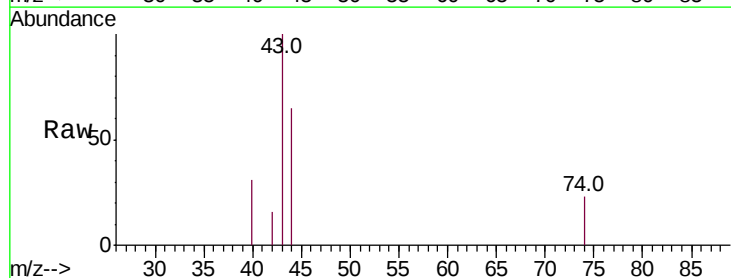
Instrument :
MSVOA_N
ClientSampleId :

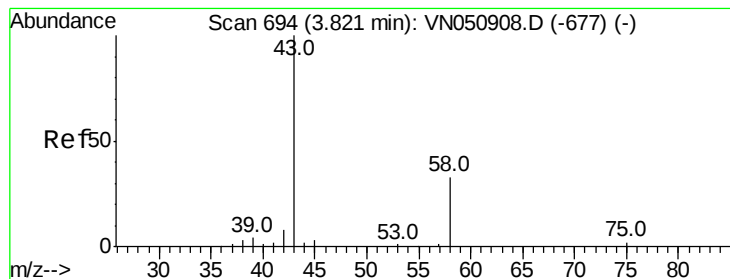
Tot Ion: 94 Resp: 2225
Ion Ratio Lower Upper
94 100
96 107.8 74.9 112.3



#12
Methyl Acetate
Concen: 0.388 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

Tgt Ion: 43 Resp: 2383
Ion Ratio Lower Upper
43 100
74 23.5 20.6 31.0





#15

Acetone

Concen: 2.668 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

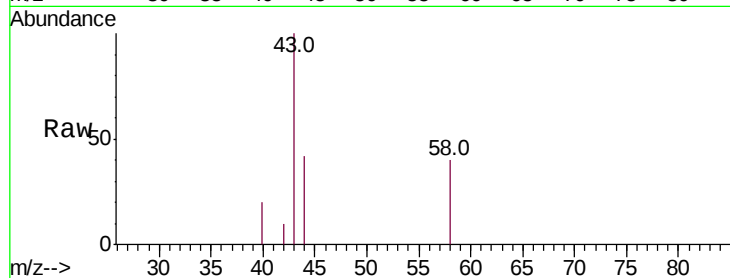
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 1418

Ion Ratio Lower Upper

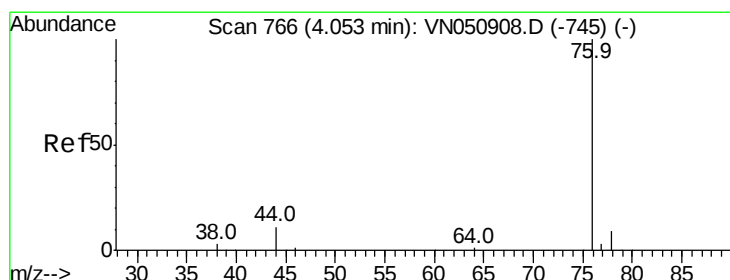
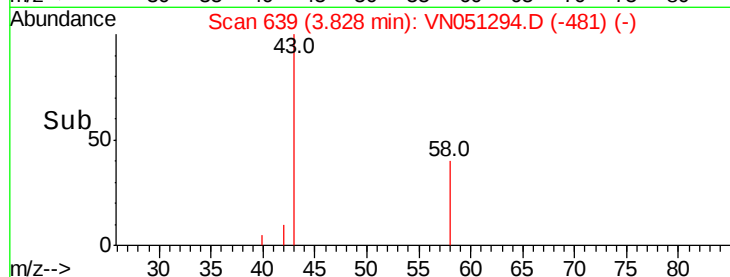
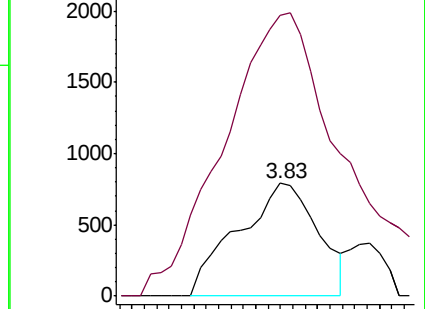
58 100

43 176.6 239.4 359.0#



Abundance Ion 58.00 (57.70 to 58.70): VN051294.D (-677) (-)

Ion 43.00 (42.70 to 43.70): VN051294.D (-677) (-)



#16

Carbon Disulfide

Concen: 0.329 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051294.D

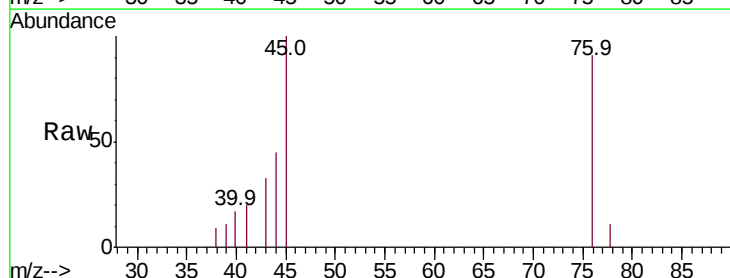
Acq: 18 Sep 2018 13:47

Tgt Ion: 76 Resp: 5259

Ion Ratio Lower Upper

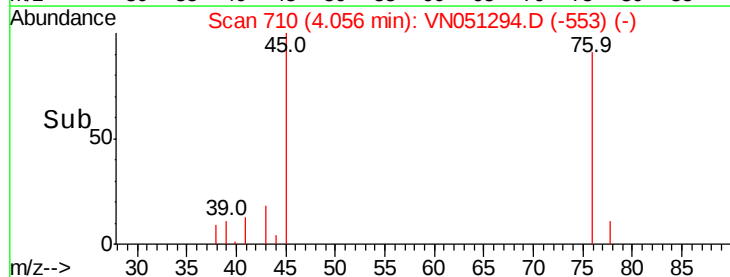
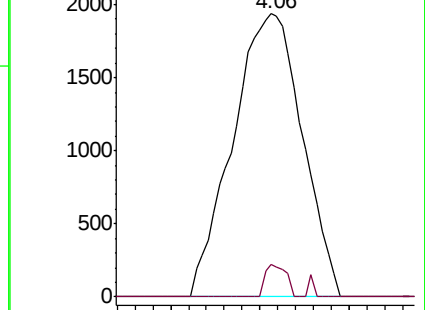
76 100

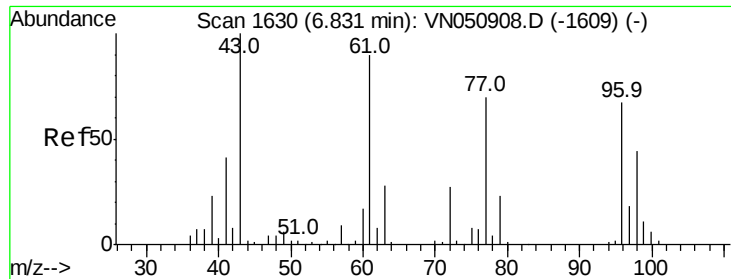
78 11.6 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN051294.D (-553) (-)

Ion 78.00 (77.70 to 78.70): VN051294.D (-553) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.616 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :

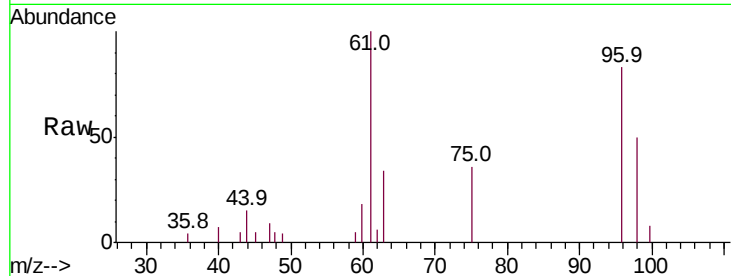
Tot Ion: 96 Resp: 10334

Ion Ratio Lower Upper

96 100

61 121.9 110.0 165.0

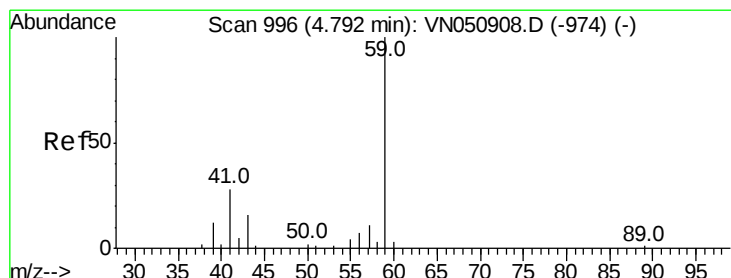
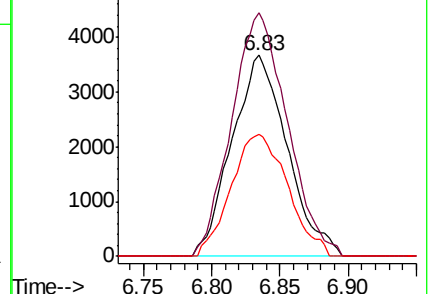
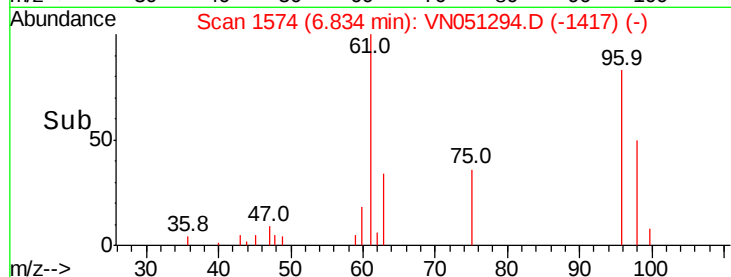
98 62.0 51.7 77.5



Abundance Ion 96.00 (95.70 to 96.70): VN051294.D (-1417) (-)

Ion 61.00 (60.70 to 61.70): VN051294.D (-1417) (-)

Ion 98.00 (97.70 to 98.70): VN051294.D (-1417) (-)



#23

tert-Butyl Alcohol

Concen: 0.779 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.01 min

Lab File: VN051294.D

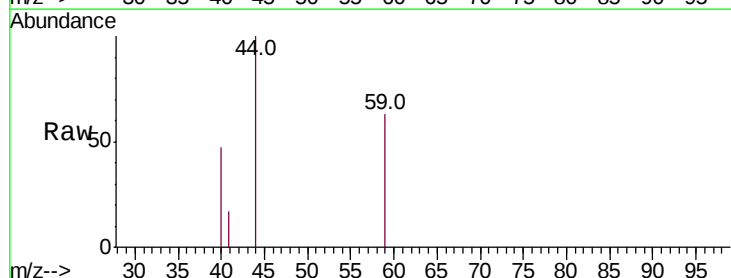
Acq: 18 Sep 2018 13:47

Tgt Ion: 59 Resp: 344

Ion Ratio Lower Upper

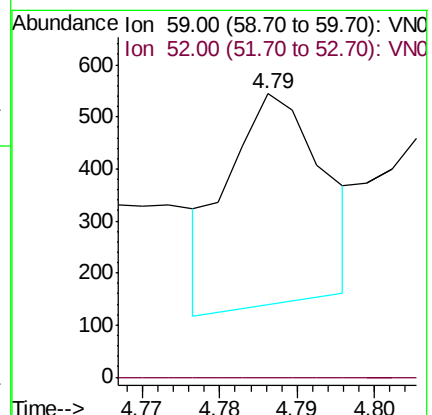
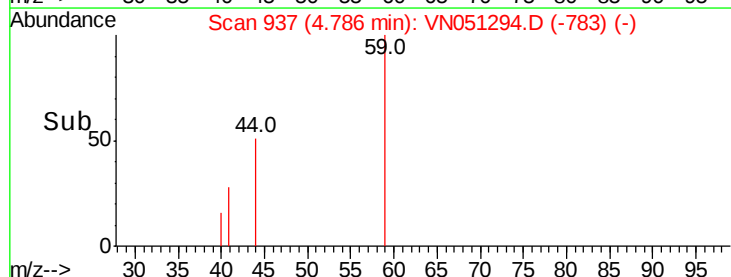
59 100

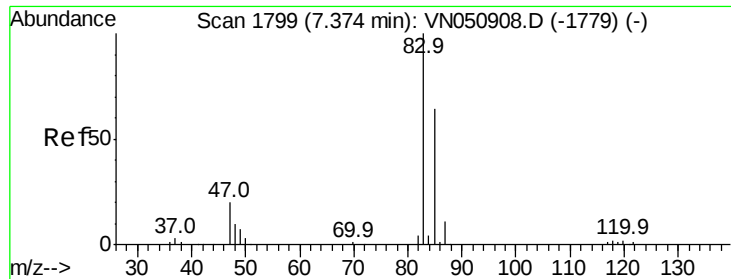
52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN051294.D (-783) (-)

Ion 52.00 (51.70 to 52.70): VN051294.D (-783) (-)





#25

Chloroform

Concen: 0.268 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

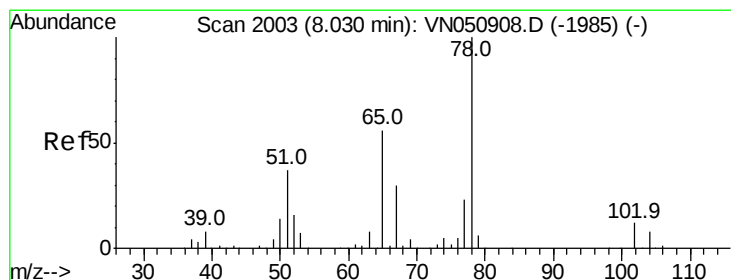
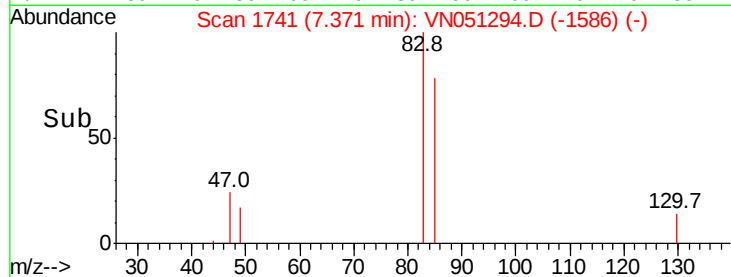
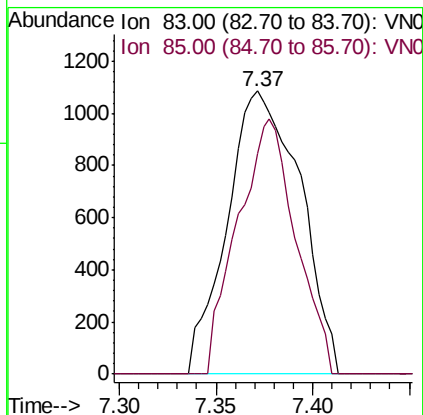
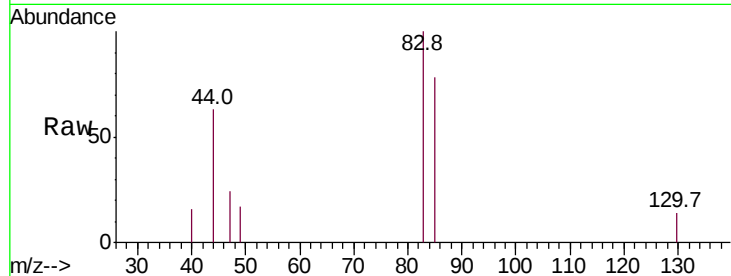
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 2846

Ion Ratio Lower Upper

83 100

85 77.8 51.4 77.0#



#27

1,2-Dichloroethane-d4

Concen: 28.499 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051294.D

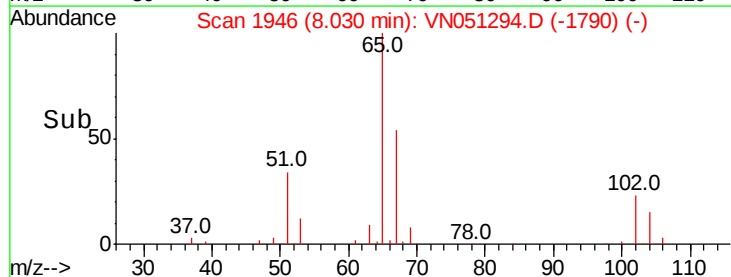
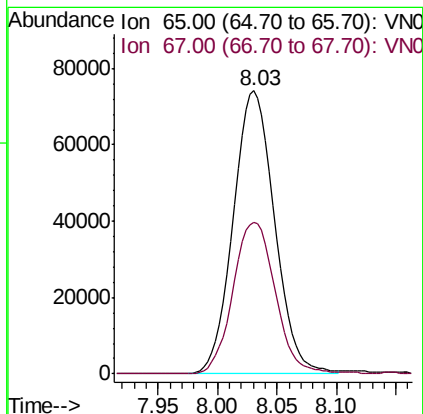
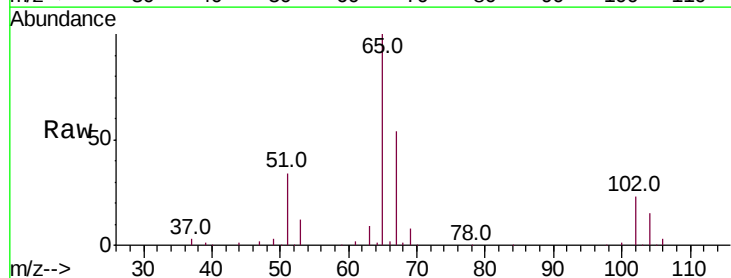
Acq: 18 Sep 2018 13:47

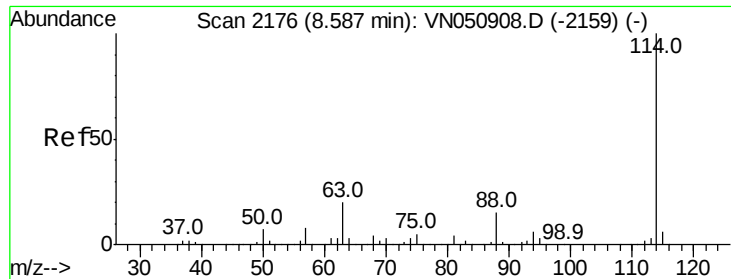
Tgt Ion: 65 Resp: 178790

Ion Ratio Lower Upper

65 100

67 54.7 43.7 65.5

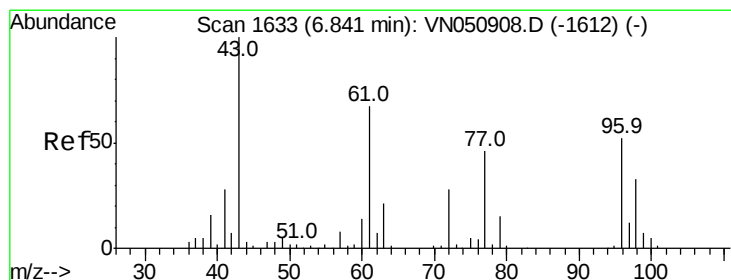
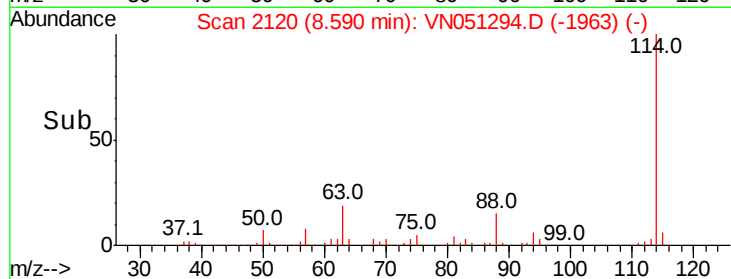
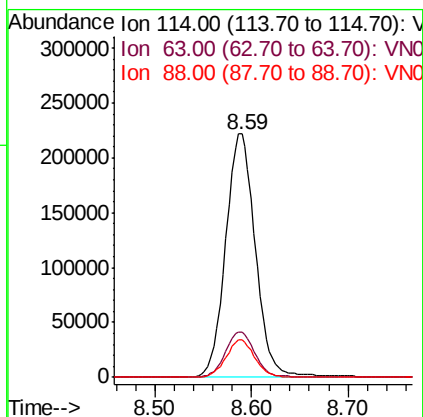
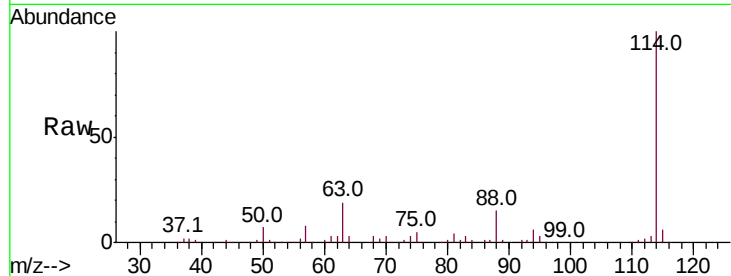




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

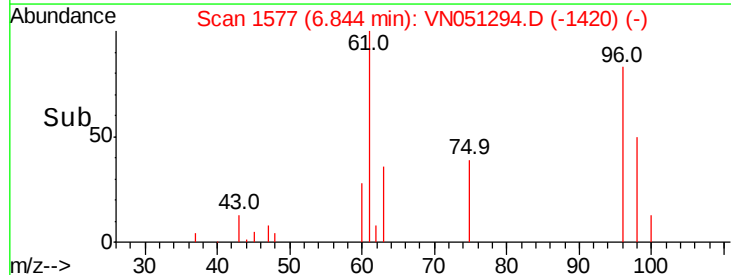
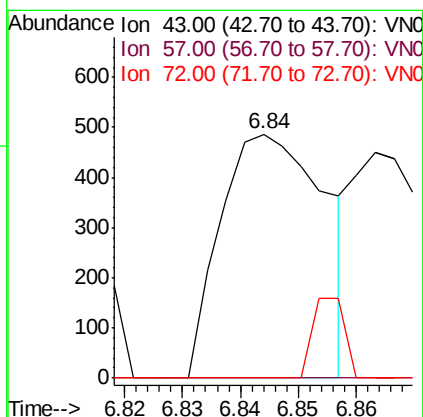
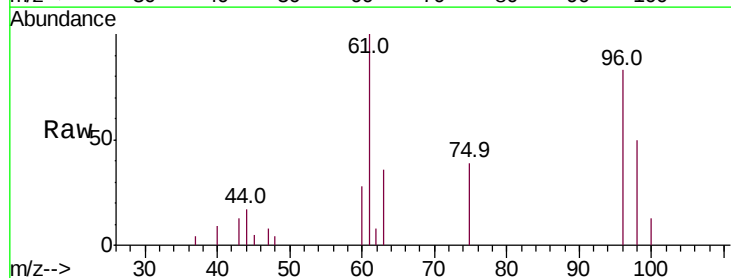
Instrument :
 MSVOA_N
 ClientSampleId :

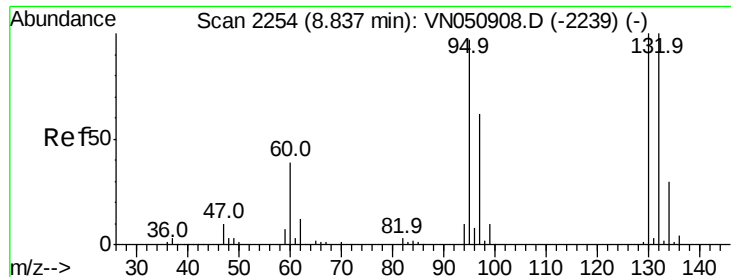
Tot Ion:114 Resp: 474820
 Ion Ratio Lower Upper
 114 100
 63 18.7 15.6 23.4
 88 14.9 12.2 18.4



#30
 2-Butanone
 Concen: 0.278 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Tgt Ion: 43 Resp: 607
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.9 10.3#
 72 0.0 22.8 34.2#

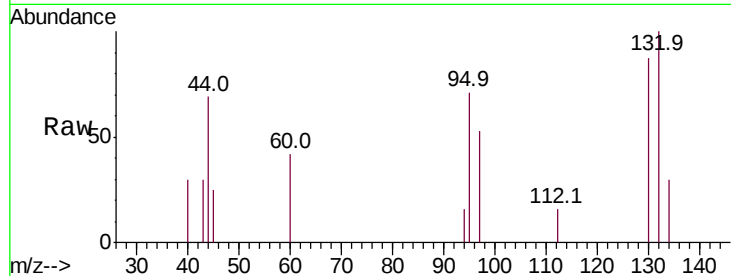




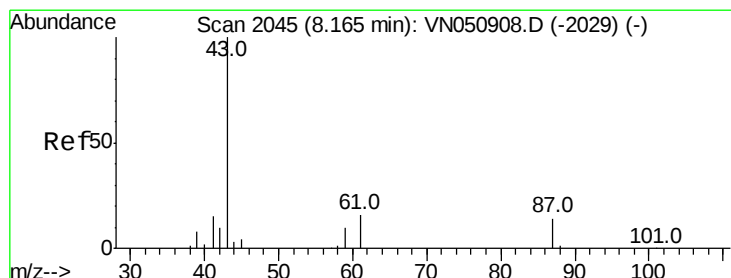
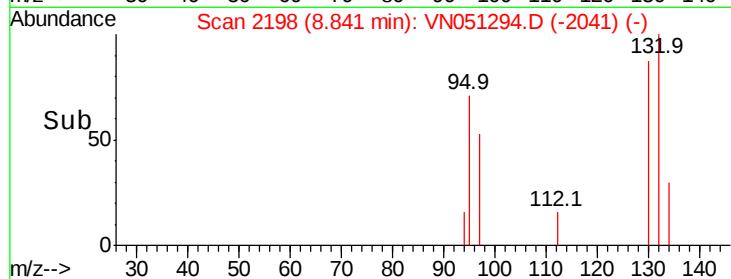
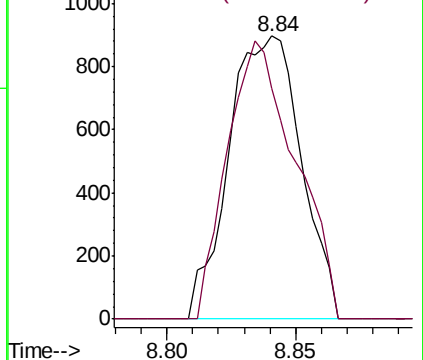
#37
 Trichloroethene
 Concen: 0.306 ug/l
 RT: 8.84 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:130 Resp: 1758
 Ion Ratio Lower Upper
 130 100
 95 81.7 77.4 116.0

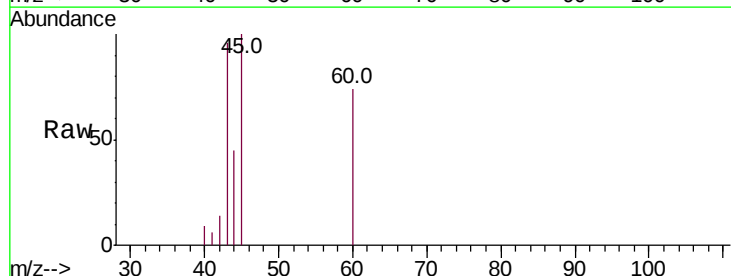


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

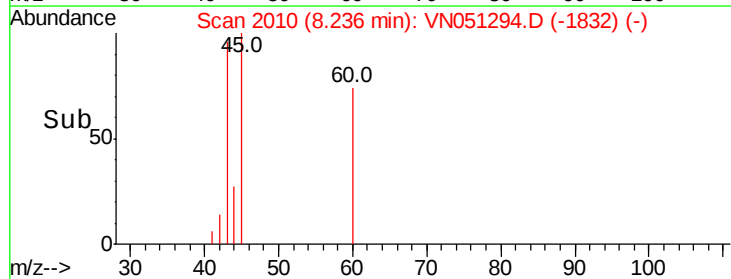
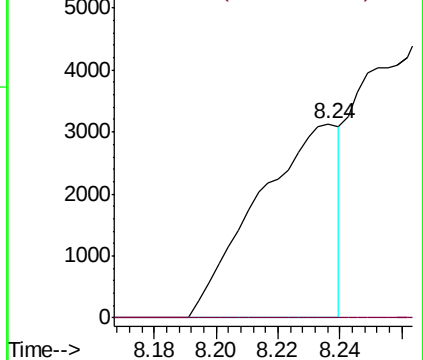


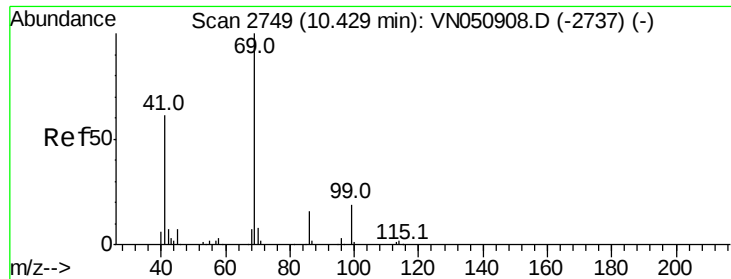
#44
 Isopropyl Acetate
 Concen: 0.725 ug/l
 RT: 8.24 min Scan# 2010
 Delta R.T. 0.07 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Tgt Ion: 43 Resp: 5733
 Ion Ratio Lower Upper
 43 100
 61 29.4 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO





#51

Ethyl methacrylate

Concen: 0.270 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

Instrument :

MSVOA_N

ClientSampled :

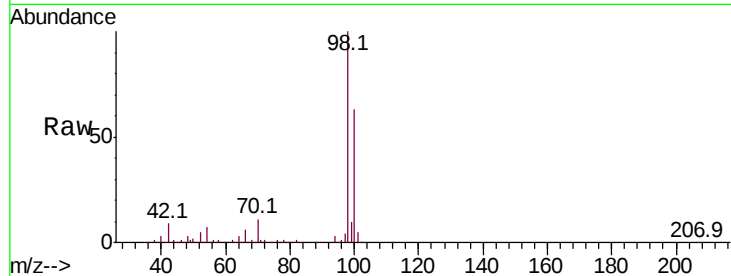
Tot Ion: 69 Resp: 1663

Ion Ratio Lower Upper

69 100

41 92.5 30.5 91.5#

39 36.4 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN050908.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050908.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050908.D (-2737) (-)

10.10

800

600

400

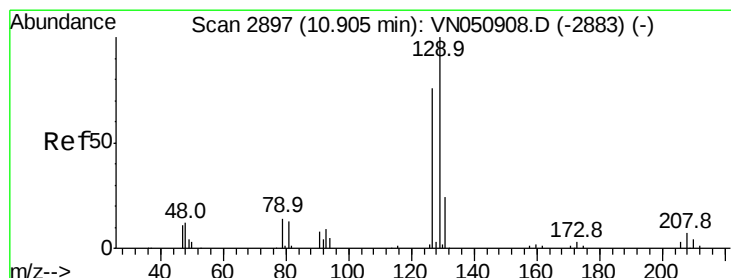
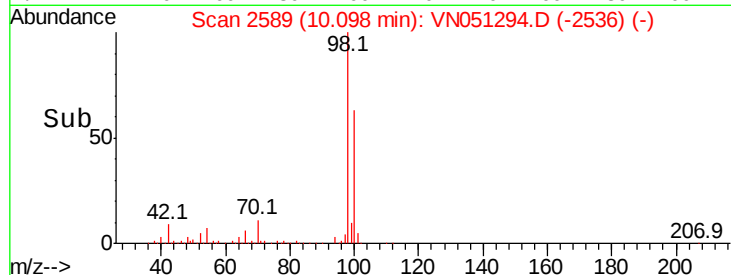
200

0

10.05

10.10

Time-->



#53

Dibromochloromethane

Concen: 0.990 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN051294.D

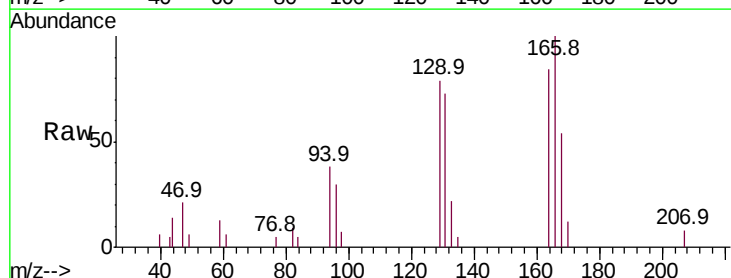
Acq: 18 Sep 2018 13:47

Tgt Ion: 129 Resp: 5660

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#



Abundance Ion 129.00 (128.70 to 129.70): VN050908.D (-2883) (-)

Ion 127.00 (126.70 to 127.70): VN050908.D (-2883) (-)

10.63

3000

2000

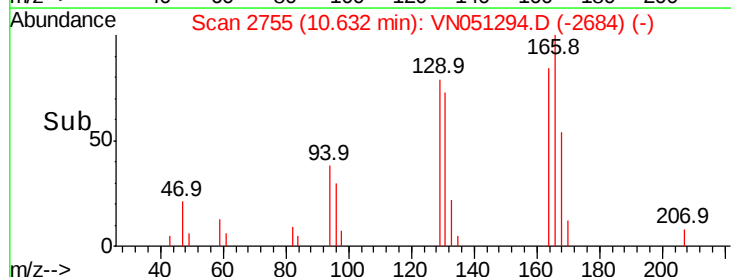
1000

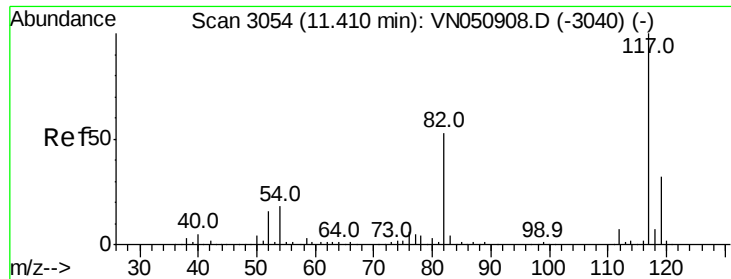
0

10.60

10.65

Time-->

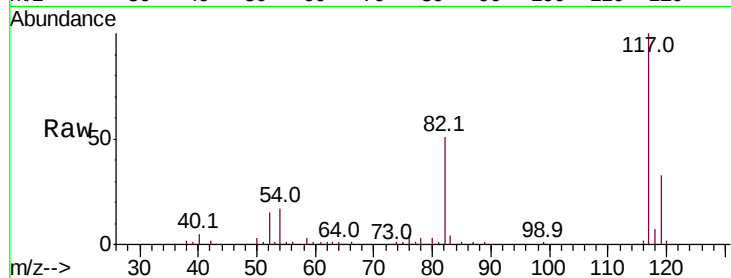




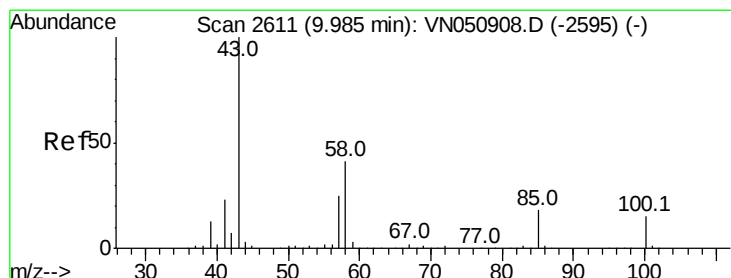
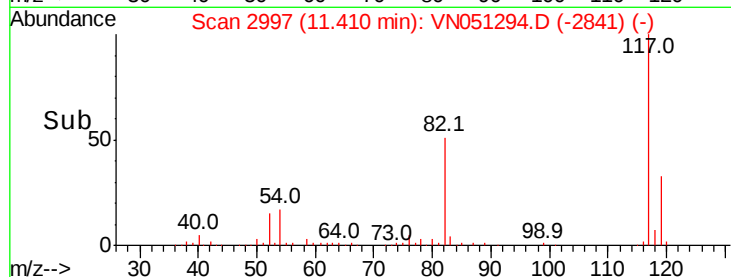
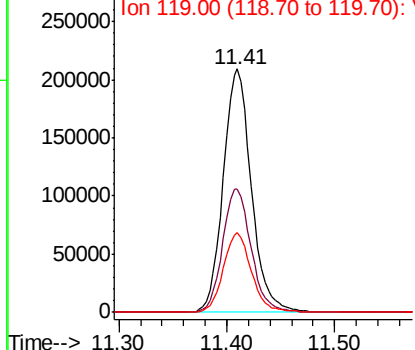
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 379950
Ion Ratio Lower Upper
117 100
82 51.5 42.6 64.0
119 32.6 25.7 38.5

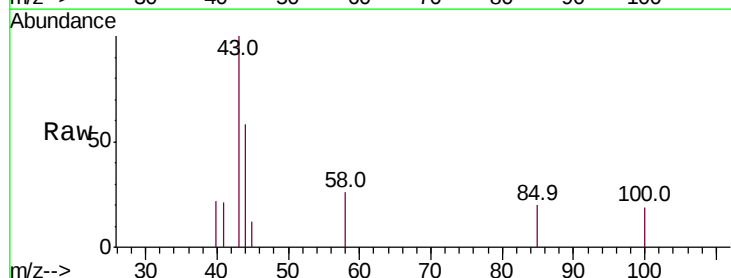


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

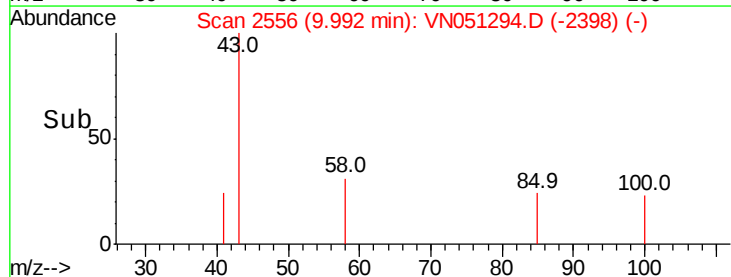
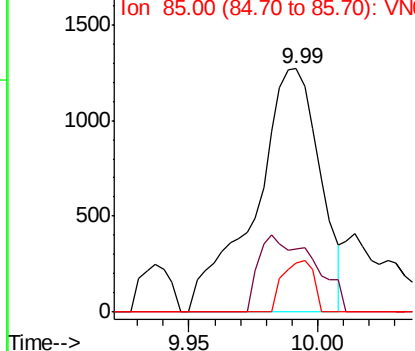


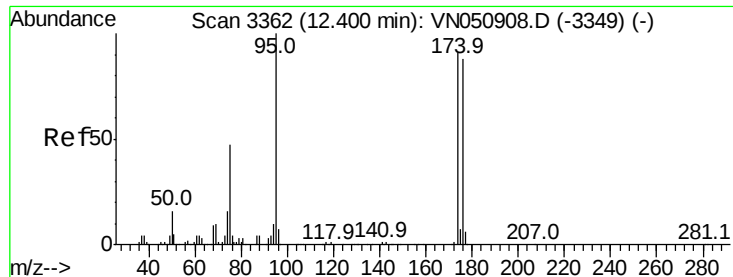
#58
4-Methyl-2-Pentanone
Concen: 0.513 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

Tgt Ion: 43 Resp: 2231
Ion Ratio Lower Upper
43 100
58 14.3 32.3 48.5#
85 9.9 14.9 22.3#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

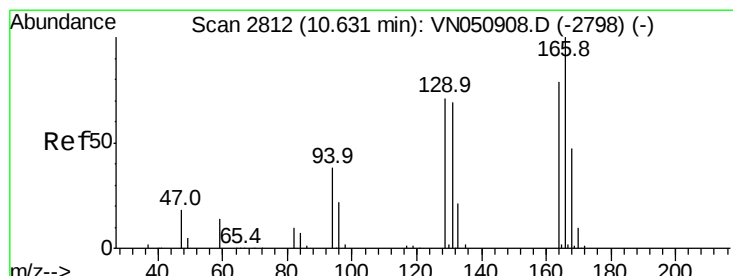
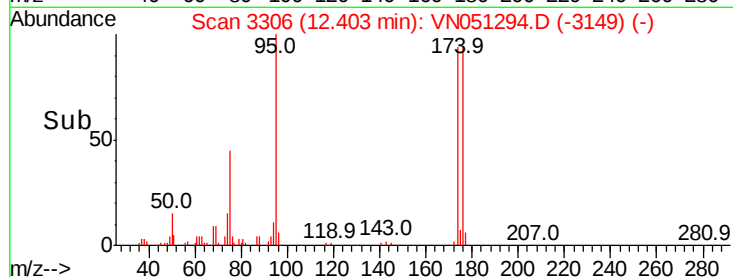
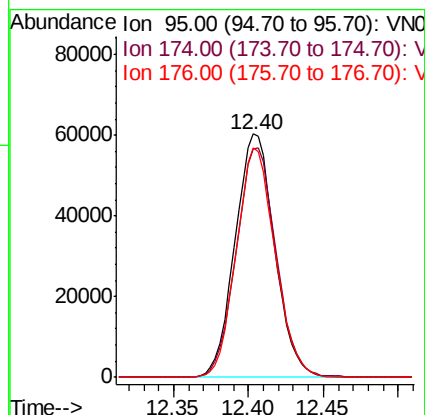
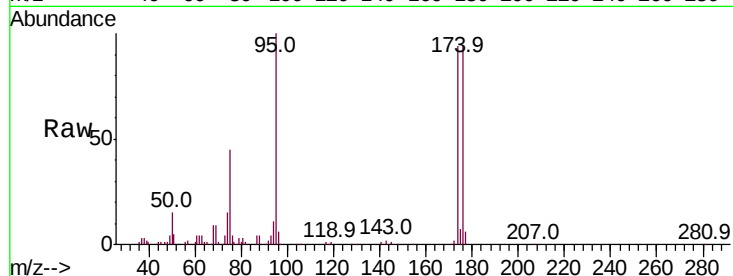




#60
 4-Bromofluorobenzene
 Concen: 19.648 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

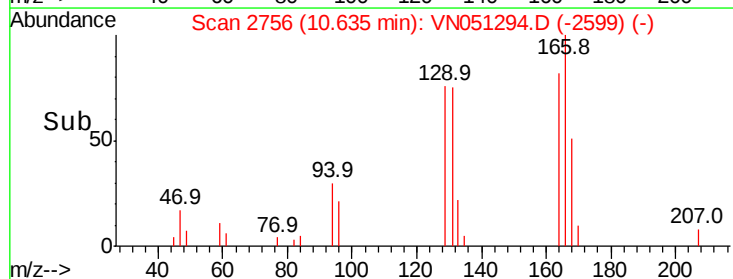
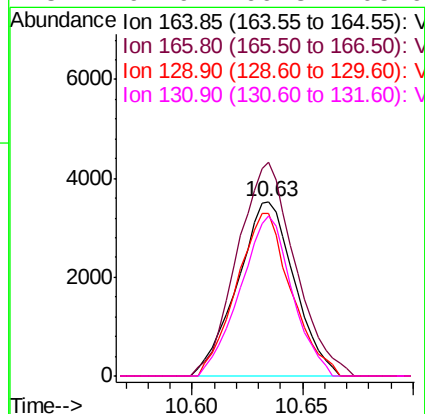
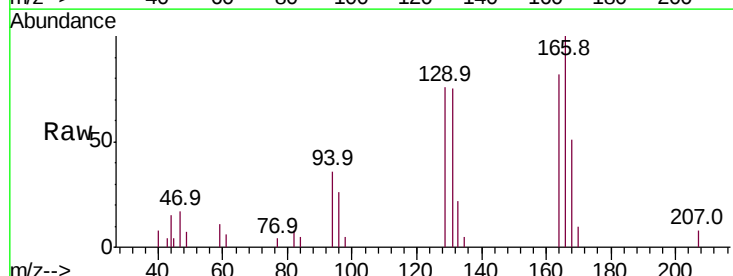
Instrument :
 MSVOA_N
 ClientSampled :

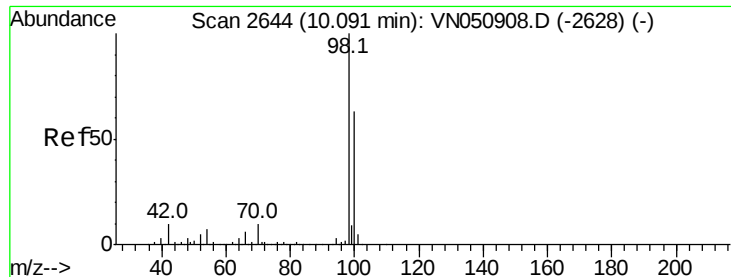
Tot Ion: 95 Resp: 111008
 Ion Ratio Lower Upper
 95 100
 174 95.1 74.6 112.0
 176 92.5 71.5 107.3



#61
 Tetrachloroethene
 Concen: 1.331 ug/l
 RT: 10.63 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Tgt Ion: 164 Resp: 6303
 Ion Ratio Lower Upper
 164 100
 166 122.6 100.6 151.0
 129 93.5 71.0 106.6
 131 91.9 69.3 103.9





#63

Toluene-d8

Concen: 30.932 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

Instrument :

MSVOA_N

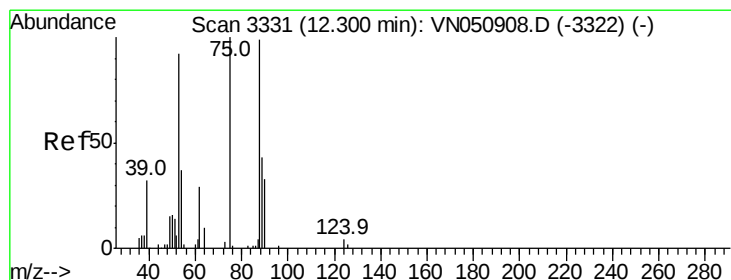
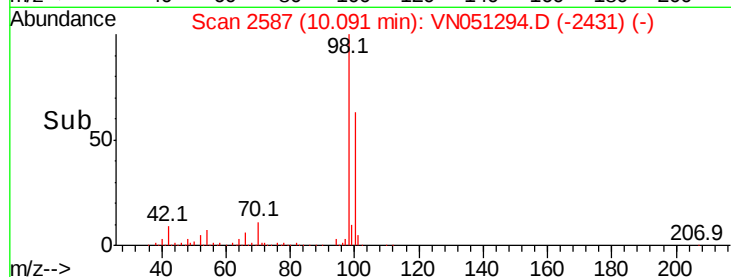
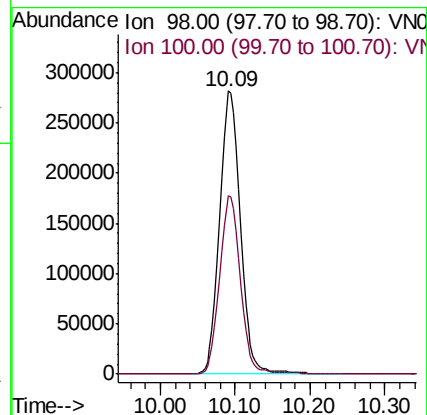
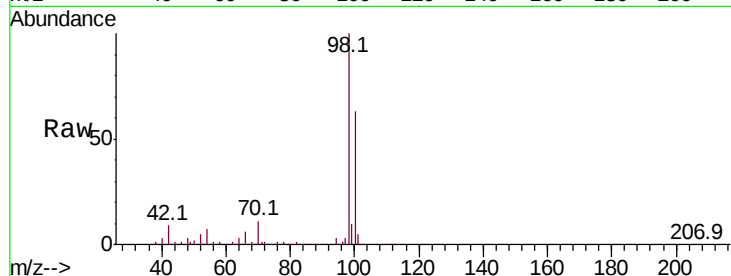
ClientSampled :

Tot Ion: 98 Resp: 548071

Ion Ratio Lower Upper

98 100

100 62.5 50.6 75.8



#77

t-1,4-Dichloro-2-butene

Concen: 34.128 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051294.D

Acq: 18 Sep 2018 13:47

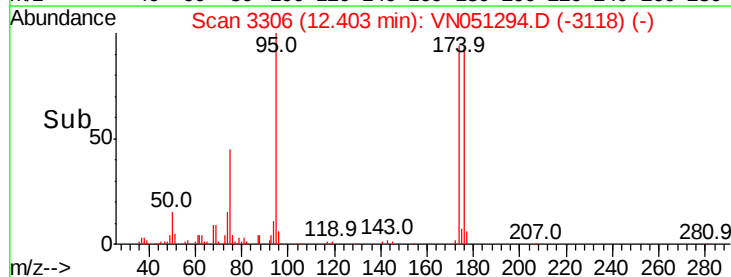
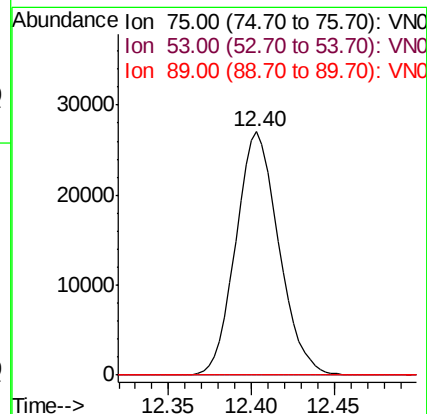
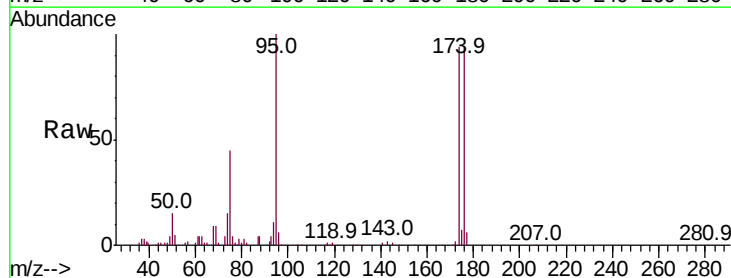
Tgt Ion: 75 Resp: 48715

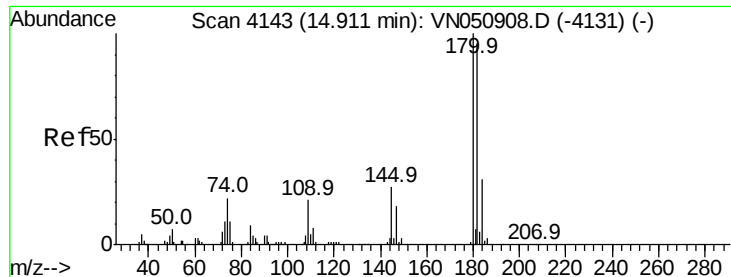
Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

89 0.0 21.9 65.8#

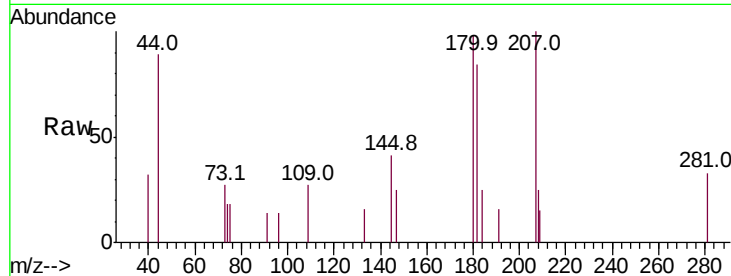




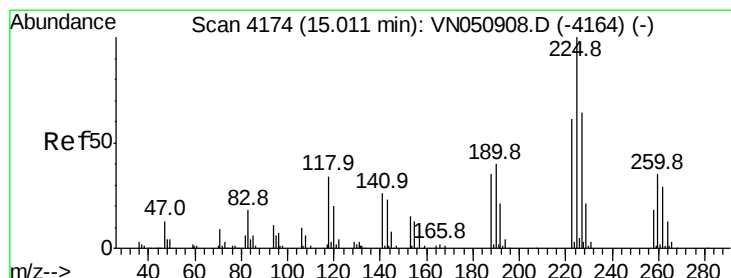
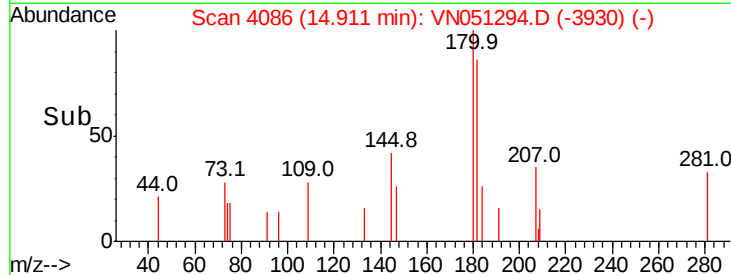
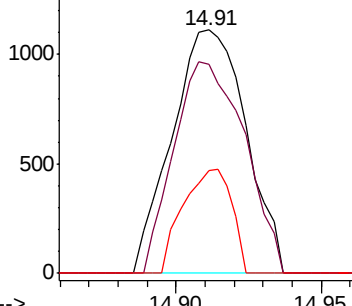
#89
 1,2,4-Trichlorobenzene
 Concen: 0.471 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1970
 Ion Ratio Lower Upper
 180 100
 182 83.1 76.2 114.4
 145 28.2 22.2 33.4

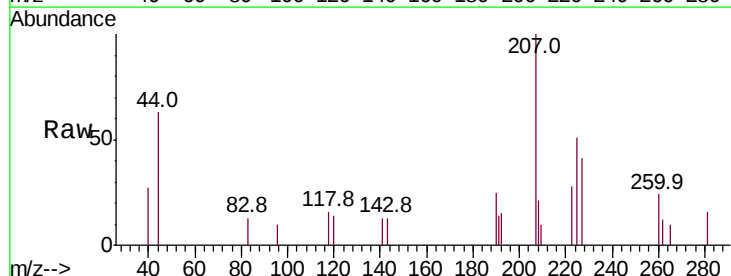


Abundance Ion 180.00 (179.70 to 180.70): V
 1500 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

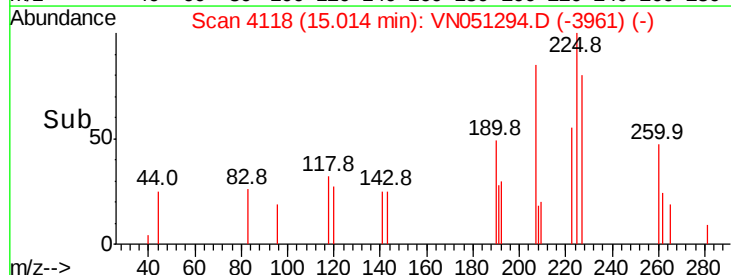
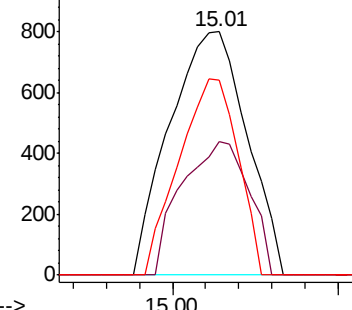


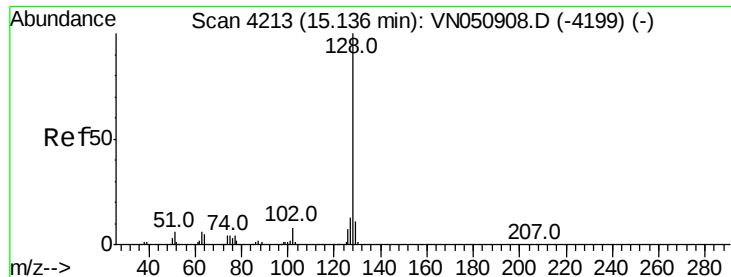
#90
 Hexachlorobutadiene
 Concen: 0.456 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN051294.D
 Acq: 18 Sep 2018 13:47

Tgt Ion:225 Resp: 1295
 Ion Ratio Lower Upper
 225 100
 223 48.0 0.0 127.8
 227 61.6 0.0 128.4



Abundance Ion 225.00 (224.70 to 225.70): V
 1000 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

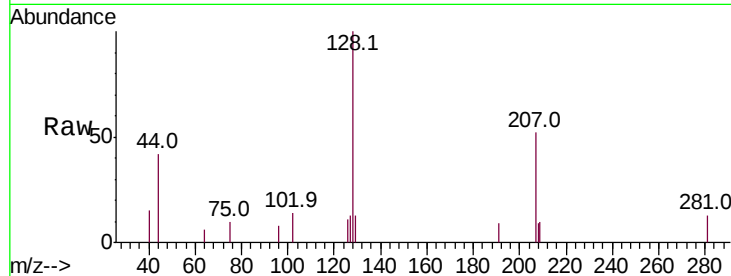




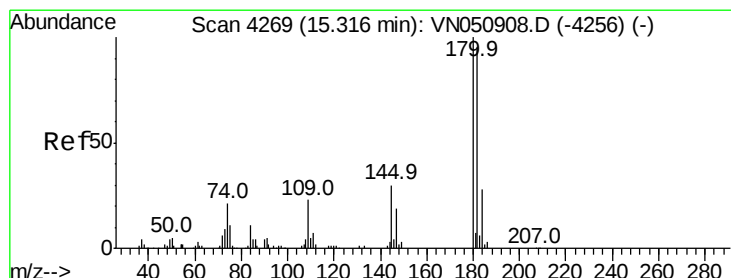
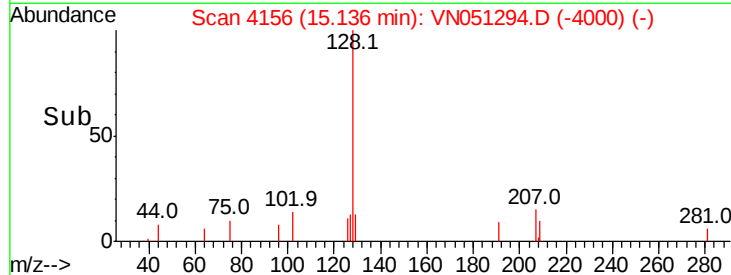
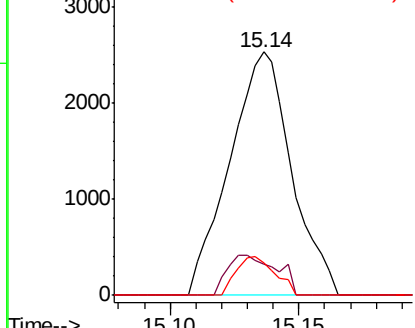
#91
Naphthalene
Concen: 8.903 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 4234
Ion Ratio Lower Upper
128 100
127 11.8 10.6 16.0
129 9.9 8.7 13.1

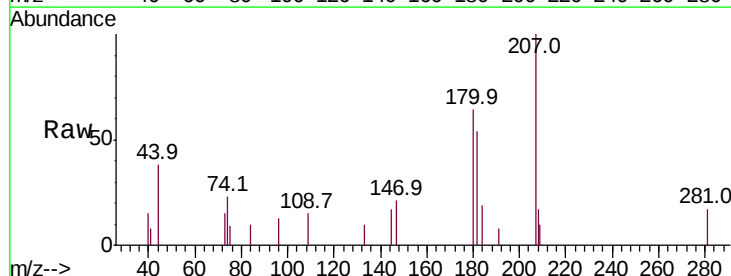


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 0.549 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051294.D
Acq: 18 Sep 2018 13:47

Tgt Ion:180 Resp: 2303
Ion Ratio Lower Upper
180 100
182 49.9 0.0 192.8
145 15.6 0.0 60.0



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

