

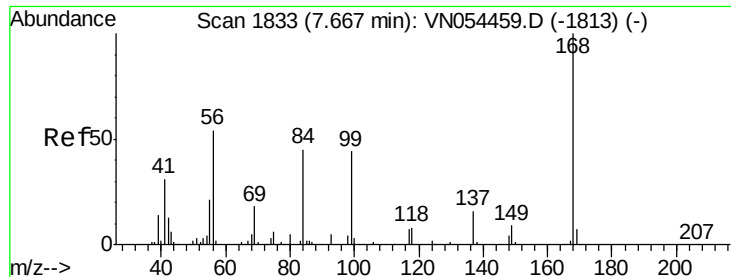
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054730.D
 Acq On : 27 Mar 2019 18:47
 Operator : JC/SP
 Sample : K2086-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:38:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	508851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	841714	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	724881	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	261105	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	337931	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
35) Dibromofluoromethane	7.59	113	271897	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.09	98	1022218	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.40	95	312188	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	12577	6.609	ug/l #	75
18) Methyl Acetate	4.34	43	3578	0.844	ug/l #	70
20) Methylene Chloride	4.55	84	17690	3.154	ug/l #	79
25) 2-Butanone	6.86	43	1828	0.750	ug/l #	46
29) Tetrahydrofuran	7.21	42	648	0.410	ug/l #	56
31) Cyclohexane	7.67	56	11570	Below Cal	#	33
36) 1,1-Dichloropropene	7.66	75	40371	5.130	ug/l #	48
38) Carbon Tetrachloride	7.67	117	48829	6.385	ug/l #	16
43) Isopropyl Acetate	8.17	43	14536	1.538	ug/l #	93
45) 1,2-Dichloropropane	9.27	63	1406	0.233	ug/l #	43
48) Methyl methacrylate	9.18	41	7308	1.424	ug/l #	26
49) 1,4-Dioxane	9.27	88	159	2.772	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7887	1.505	ug/l #	36
53) t-1,3-Dichloropropene	10.11	75	61	2.239	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	51168	5.964	ug/l #	71
57) 1,3-Dichloropropane	10.77	76	9362	1.082	ug/l #	43
59) 2-Hexanone	10.77	43	156446	45.716	ug/l #	47
71) Bromoform	12.39	173	860	2.446	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	163929	39.564	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163929	130.912	ug/l #	11
95) Naphthalene	15.13	128	2268	0.244	ug/l	97

(#) = 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: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

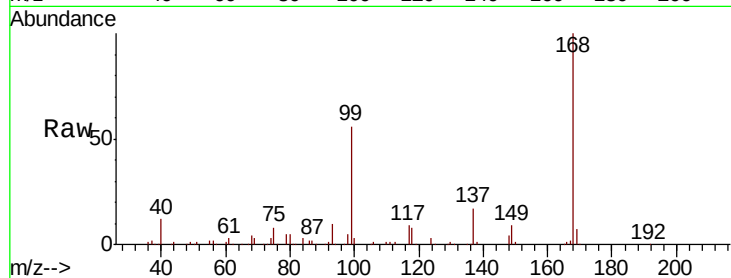
ClientSampled :

Tot Ion:168 Resp: 508851

Ion Ratio Lower Upper

168 100

99 56.3 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

100000

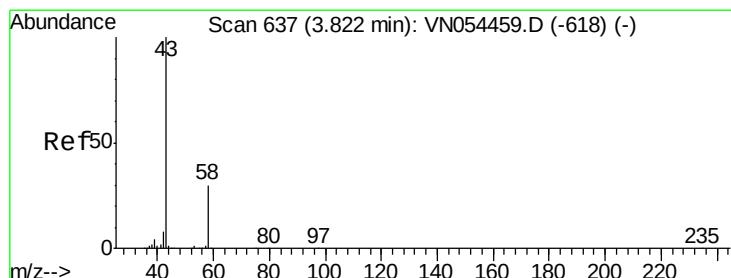
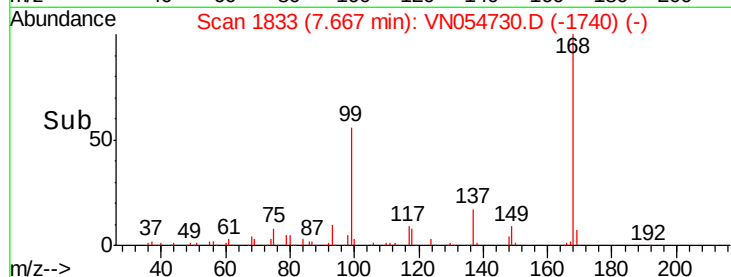
50000

0

7.60

7.70

Time-->



#16

Acetone

Concen: 6.609 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054730.D

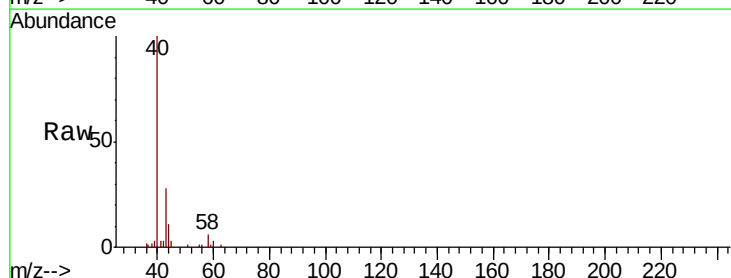
Acq: 27 Mar 2019 18:47

Tgt Ion: 43 Resp: 12577

Ion Ratio Lower Upper

43 100

58 22.3 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

3000

2000

1000

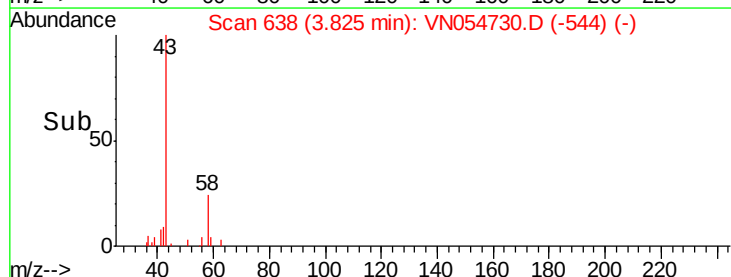
0

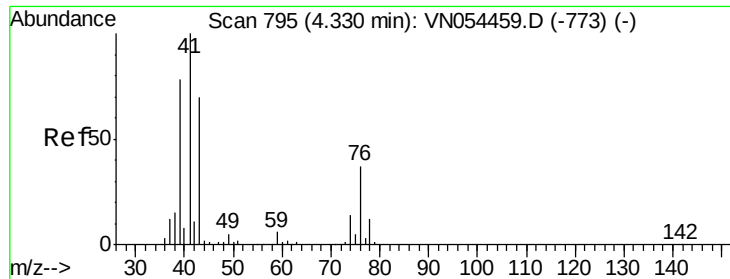
3.70

3.80

3.90

Time-->

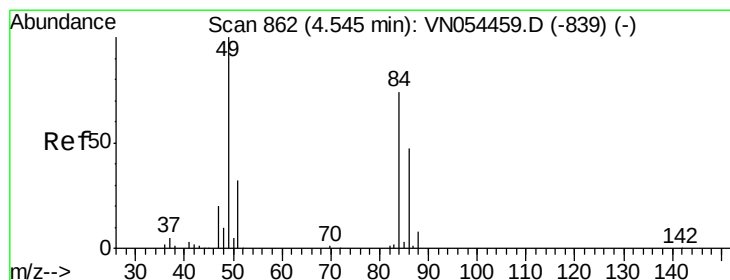
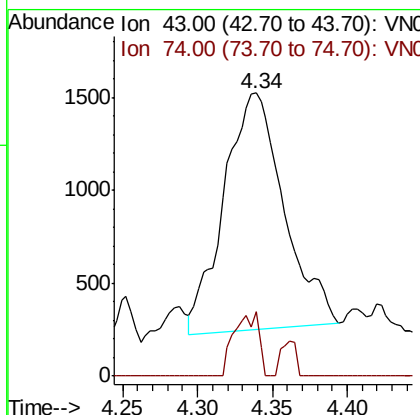
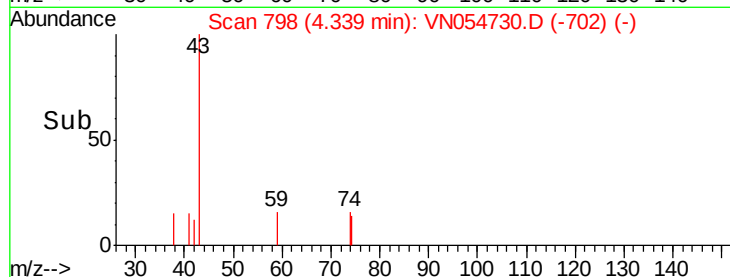
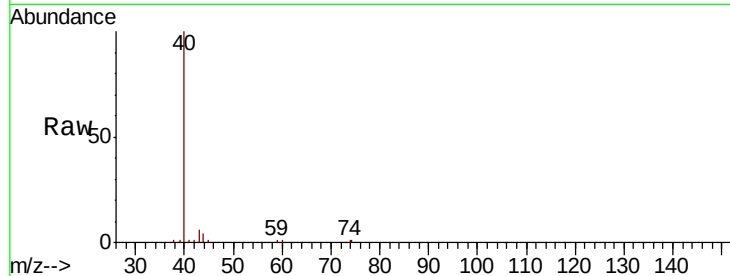




#18
Methyl Acetate
Concen: 0.844 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

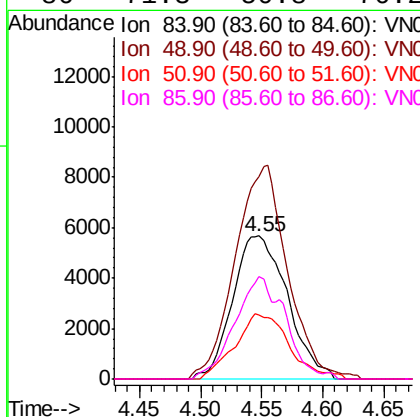
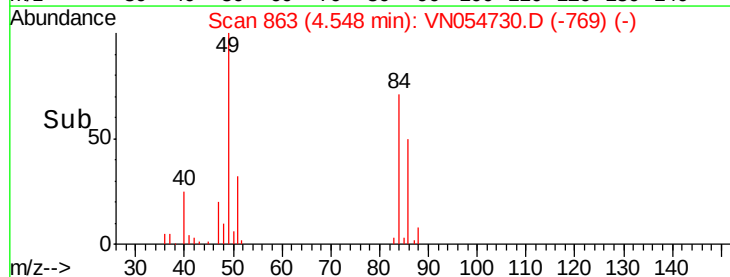
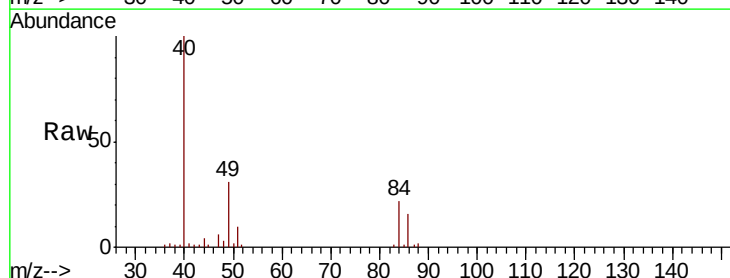
Instrument :
MSVOA_N
ClientSampleId :

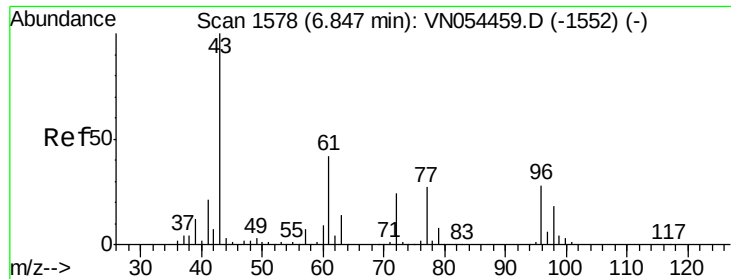
Tot Ion: 43 Resp: 3578
Ion Ratio Lower Upper
43 100
74 10.8 20.8 31.2#



#20
Methylene Chloride
Concen: 3.154 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

Tgt Ion: 84 Resp: 17690
Ion Ratio Lower Upper
84 100
49 141.7 89.7 134.5#
51 44.9 28.2 42.4#
86 71.3 50.8 76.2





#25

2-Butanone

Concen: 0.750 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

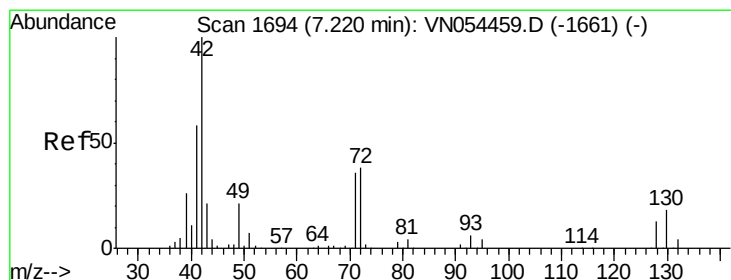
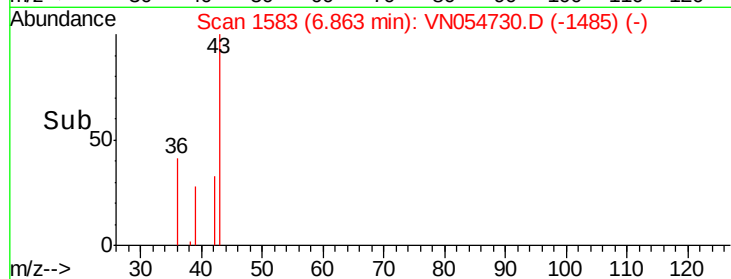
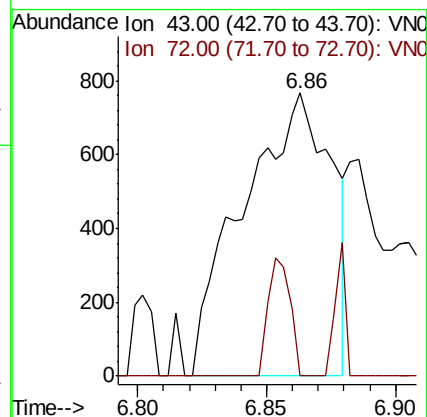
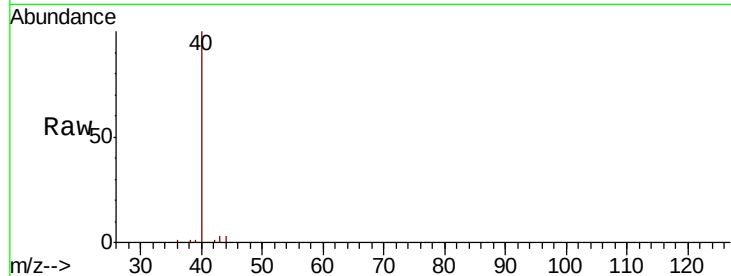
ClientSampled :

Tot Ion: 43 Resp: 1828

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.410 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.01 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

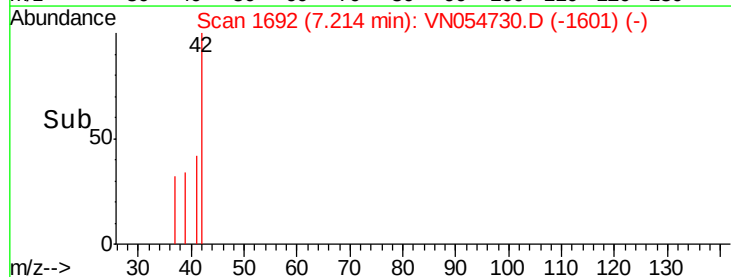
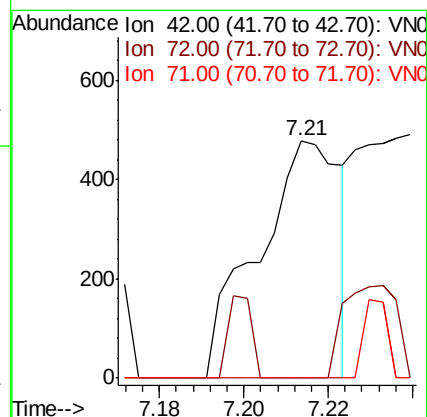
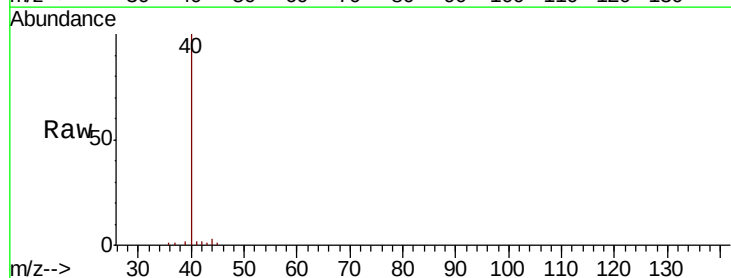
Tgt Ion: 42 Resp: 648

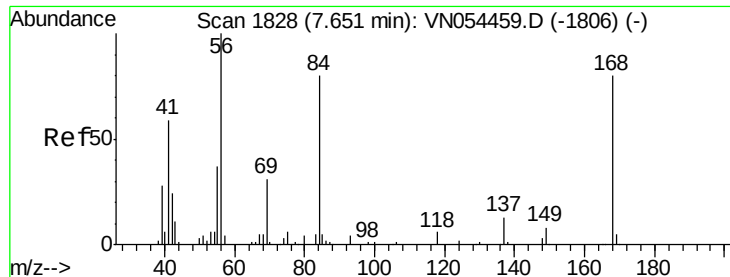
Ion Ratio Lower Upper

42 100

72 25.3 37.8 56.6#

71 9.3 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

ClientSampleId :

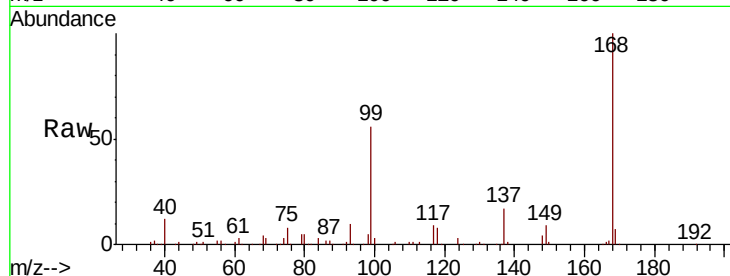
Tot Ion: 56 Resp: 11570

Ion Ratio Lower Upper

56 100

69 145.2 27.8 41.6#

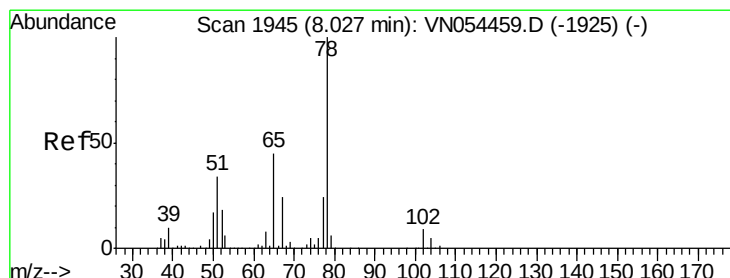
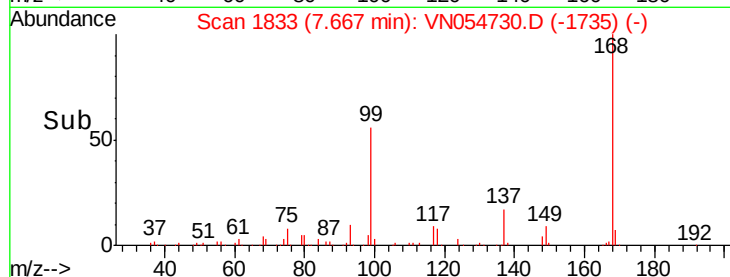
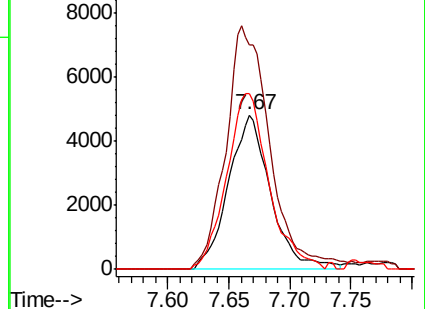
84 113.6 74.6 111.8#



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: 53.392 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054730.D

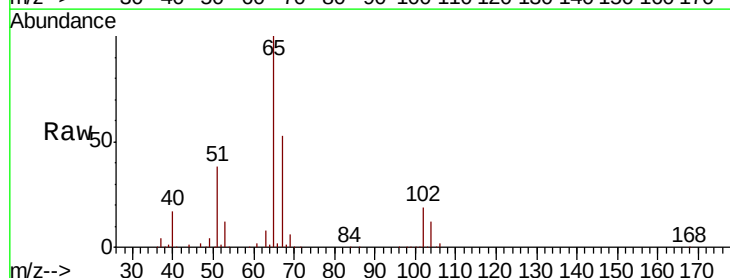
Acq: 27 Mar 2019 18:47

Tgt Ion: 65 Resp: 337931

Ion Ratio Lower Upper

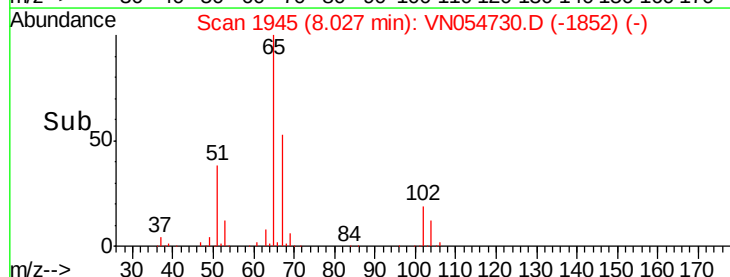
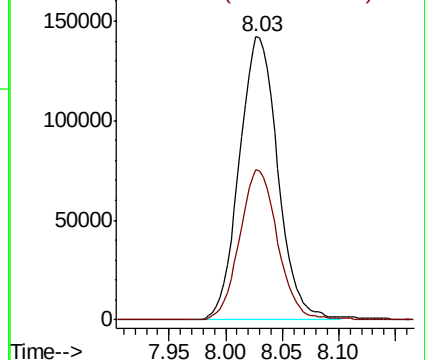
65 100

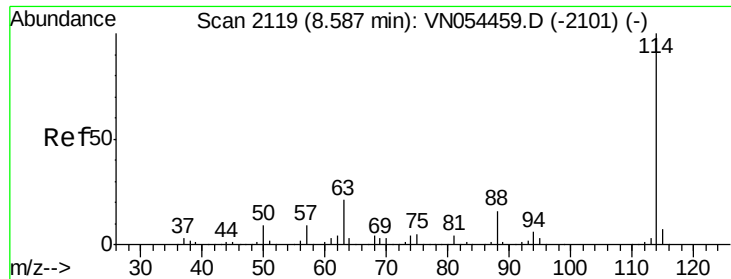
67 52.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

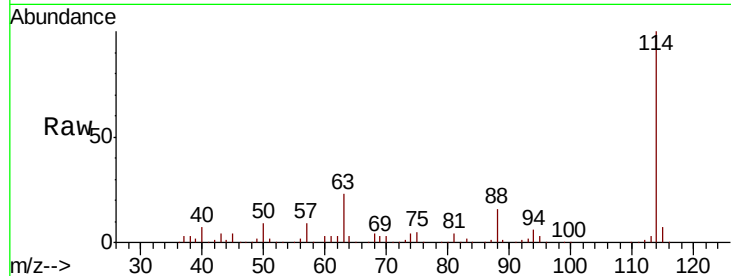




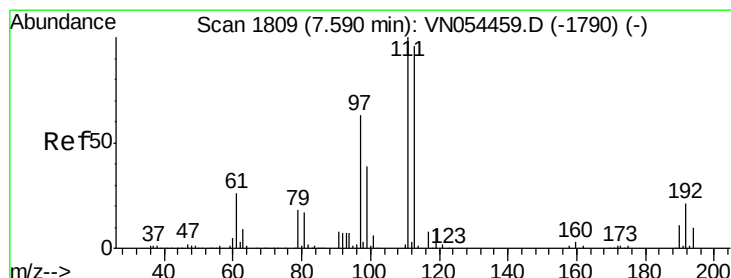
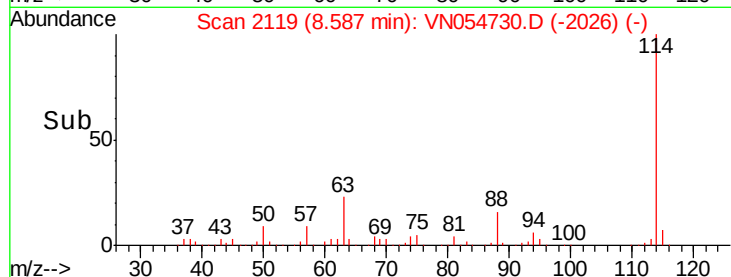
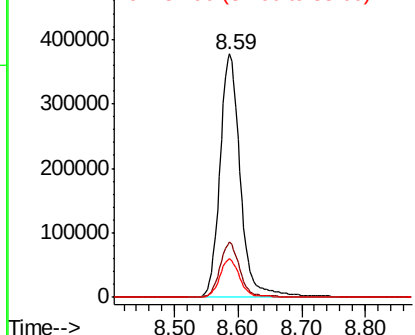
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 841714
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 35.2
 88 15.8 0.0 30.2

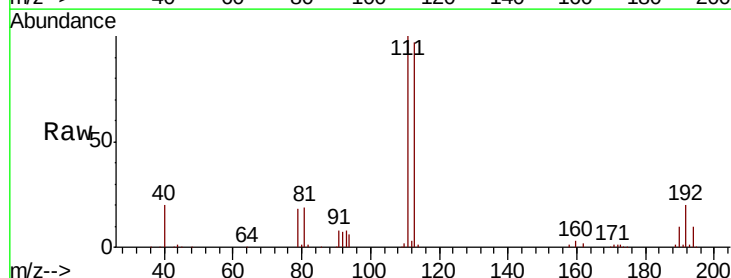


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

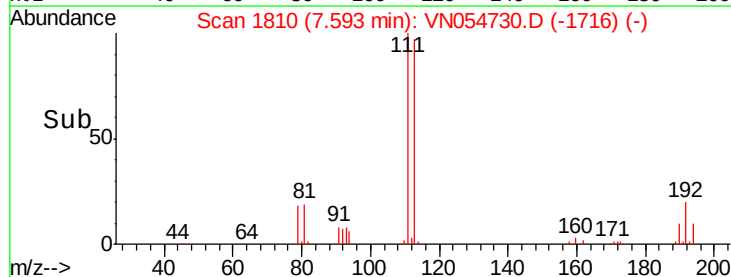
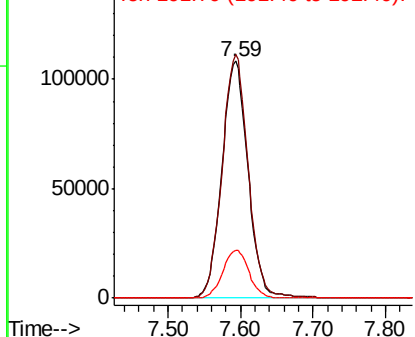


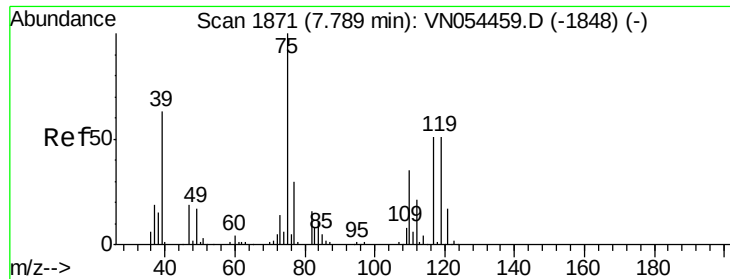
#35
 Dibromofluoromethane
 Concen: 50.140 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

Tgt Ion:113 Resp: 271897
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.2 123.4
 192 20.2 19.2 28.8



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

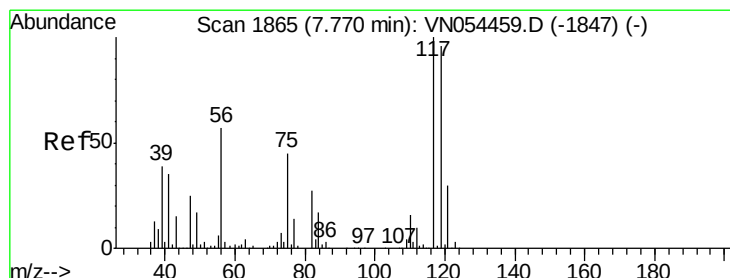
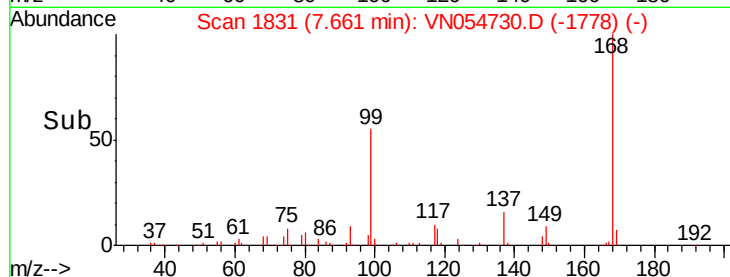
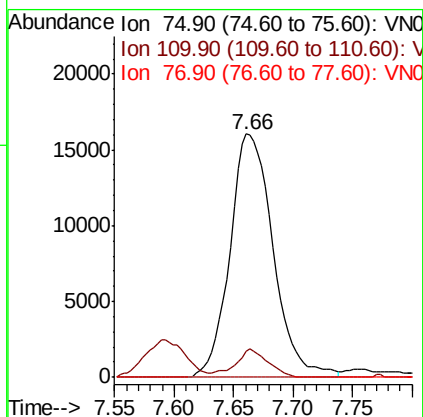
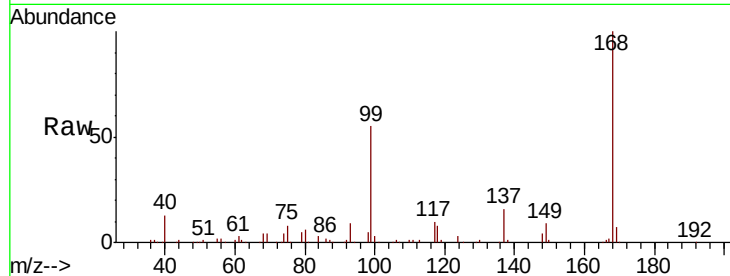




#36
 1,1-Dichloropropene
 Concen: 5.130 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

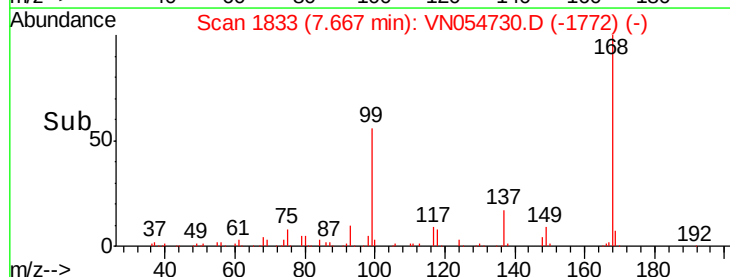
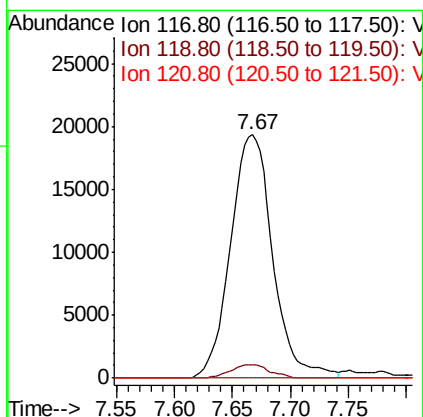
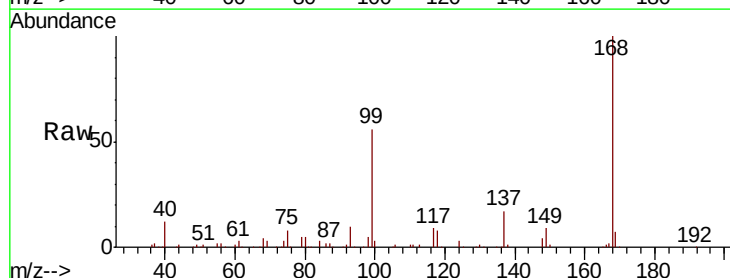
Instrument :
 MSVOA_N
 ClientSampleId :

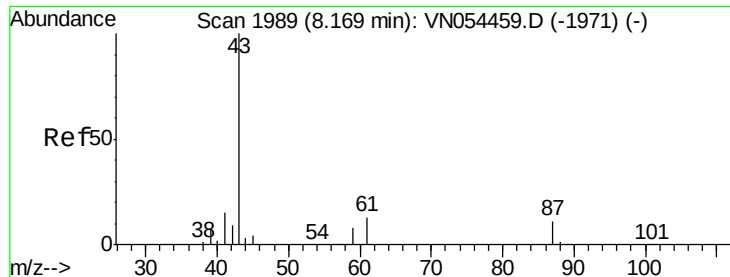
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.385 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.538 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

ClientSampled :

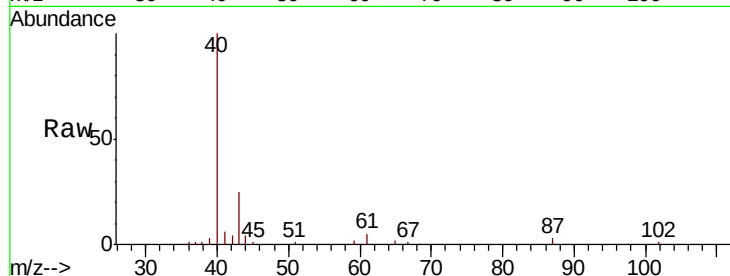
Tot Ion: 43 Resp: 14536

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.8

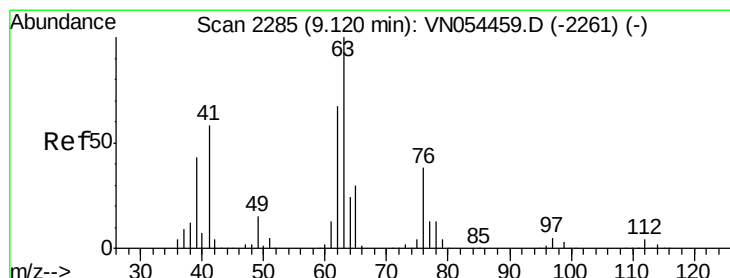
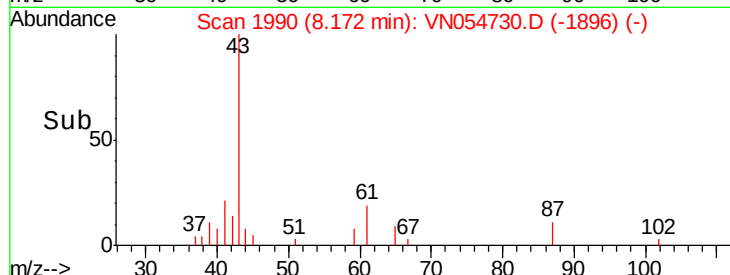
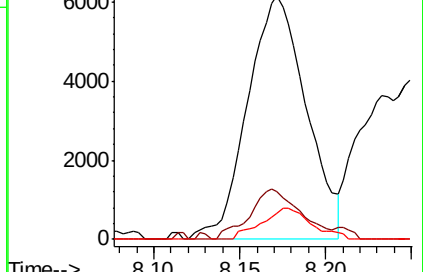
87 10.9 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054730.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN054730.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN054730.D (-1896) (-)



#45

1,2-Dichloropropane

Concen: 0.233 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN054730.D

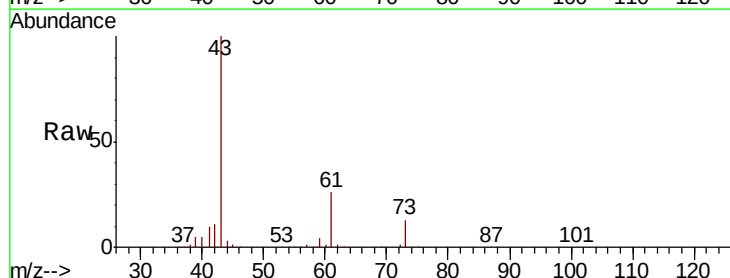
Acq: 27 Mar 2019 18:47

Tgt Ion: 63 Resp: 1406

Ion Ratio Lower Upper

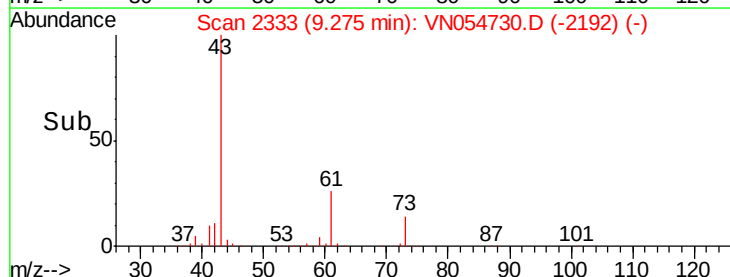
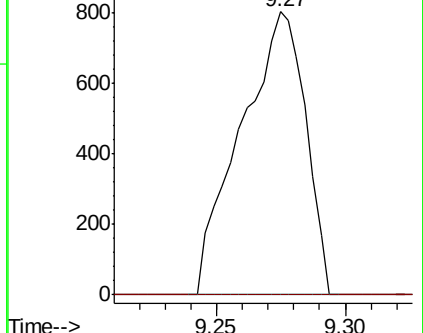
63 100

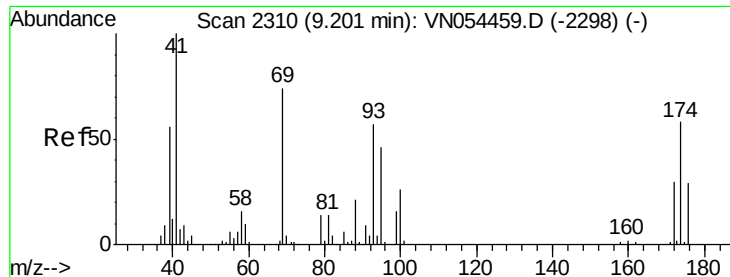
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054730.D (-2192) (-)

Ion 64.90 (64.60 to 65.60): VN054730.D (-2192) (-)

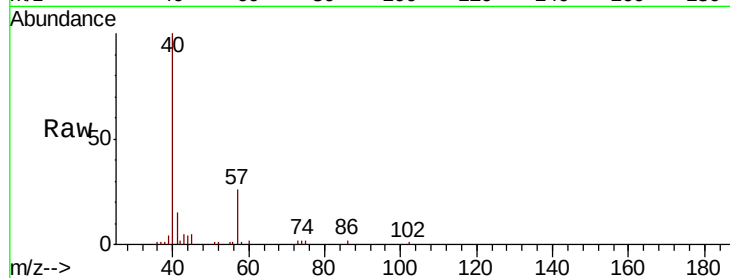




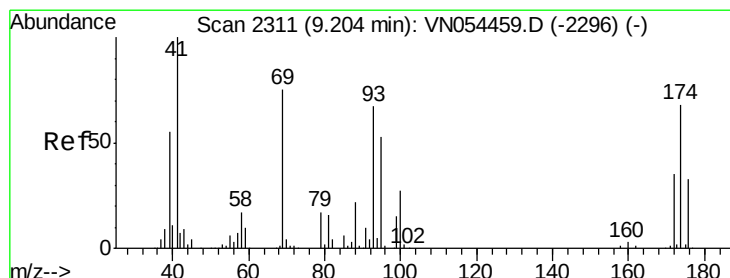
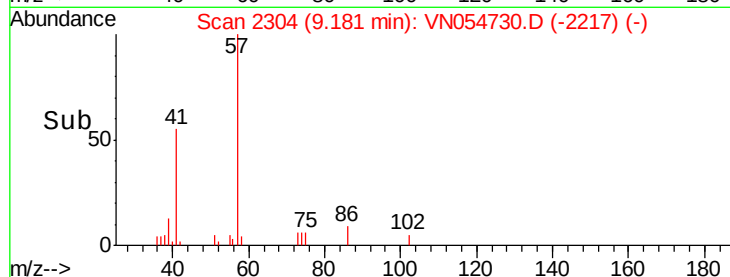
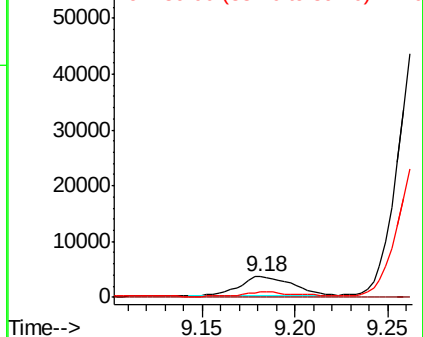
#48
Methyl methacrylate
Concen: 1.424 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 7308
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 29.4 47.5 71.3#

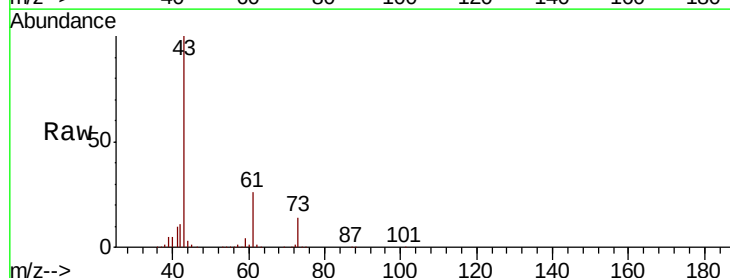


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

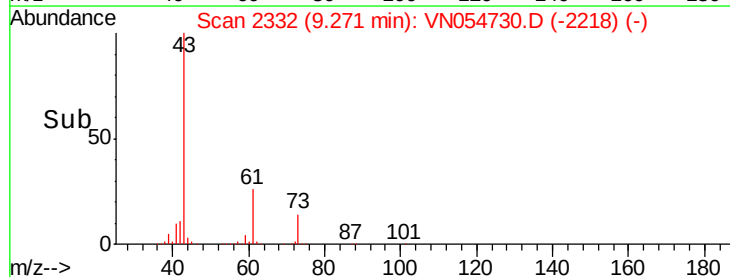
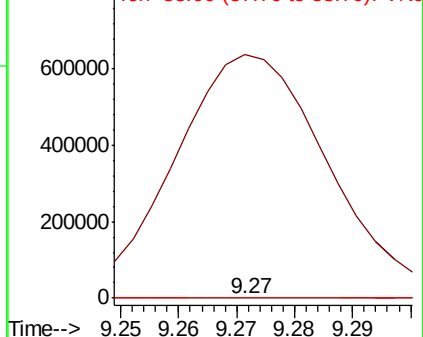


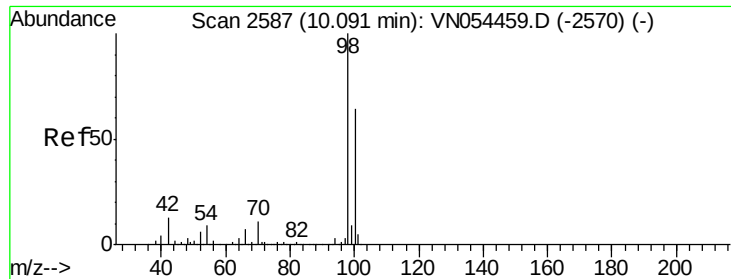
#49
1,4-Dioxane
Concen: 2.772 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 790495.6 24.1 36.1#
58 3118.9 50.8 76.2#



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

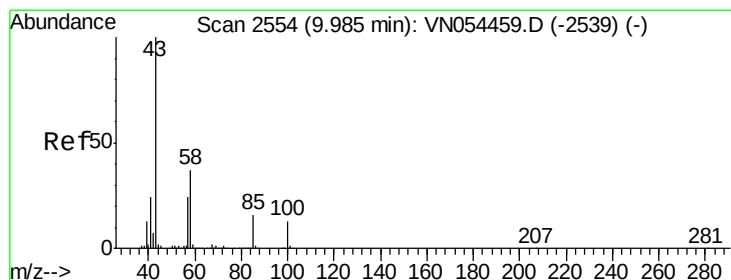
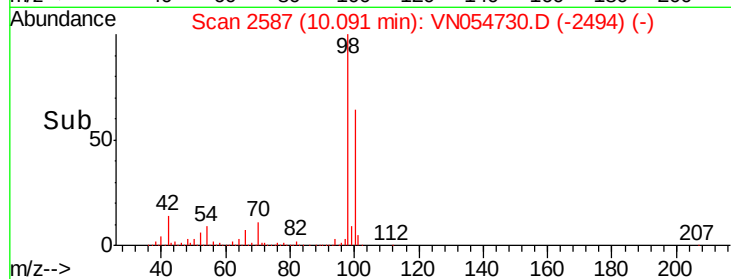
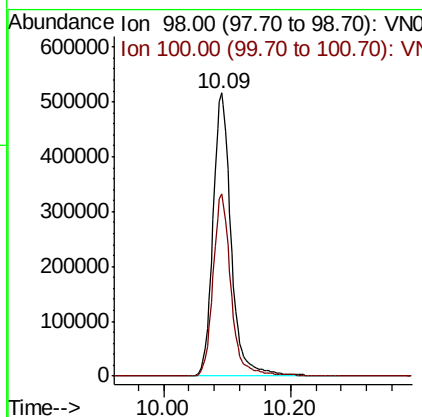
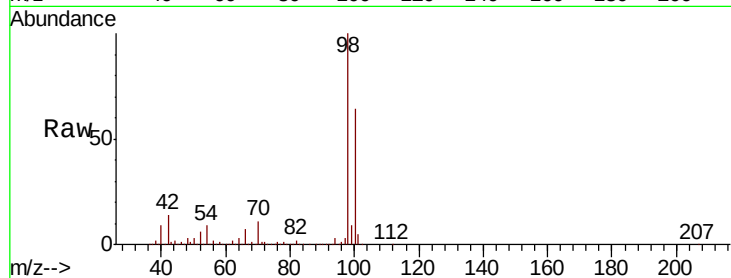




#50
Toluene-d8
Concen: 50.143 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

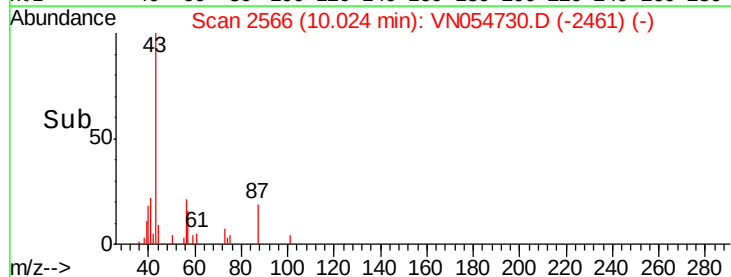
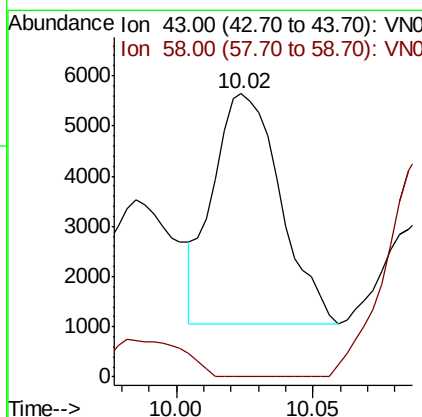
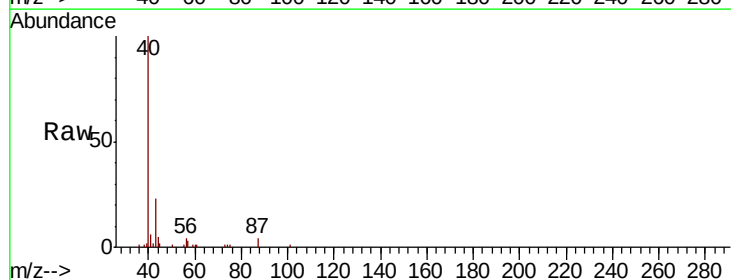
Instrument :
MSVOA_N
ClientSampleId :

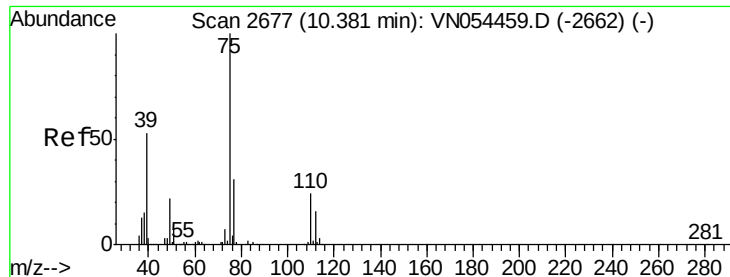
Tot Ion: 98 Resp: 1022218
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.505 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN054730.D
Acq: 27 Mar 2019 18:47

Tgt Ion: 43 Resp: 7887
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.239 ug/l

RT: 10.11 min Scan# 2593

Delta R.T. -0.27 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

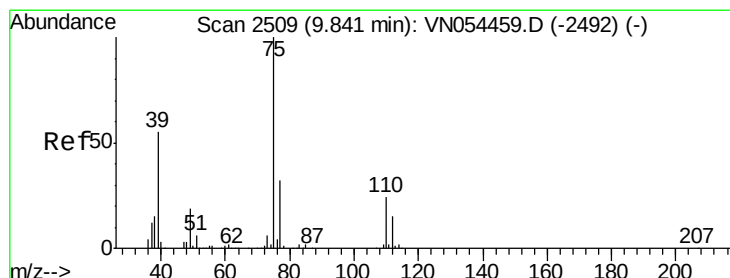
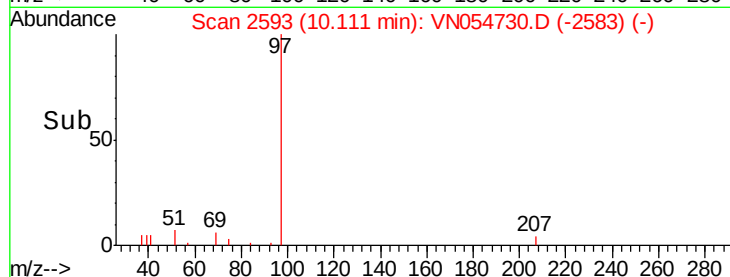
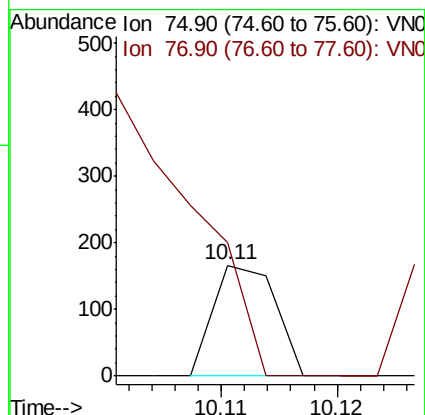
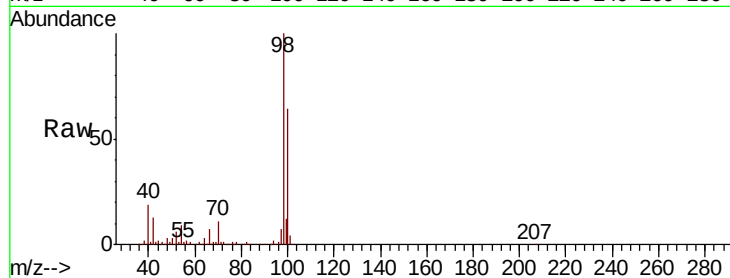
ClientSampleId :

Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 121.1 25.8 38.8#



#54

cis-1,3-Dichloropropene

Concen: 5.964 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

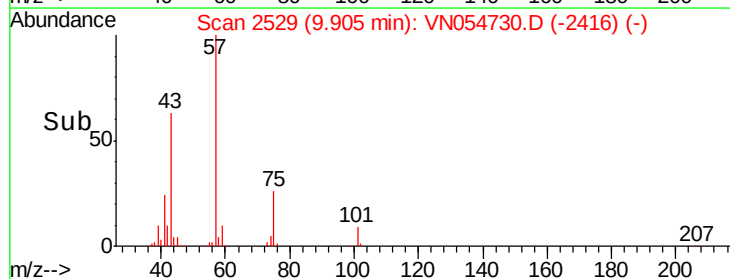
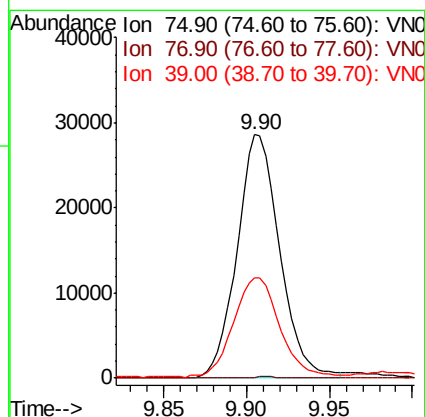
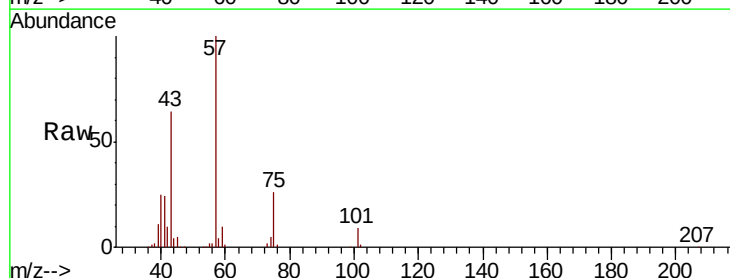
Tgt Ion: 75 Resp: 51168

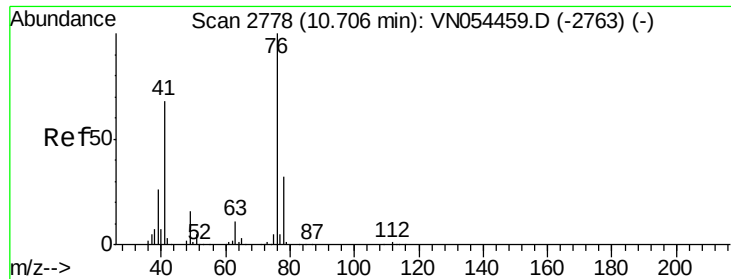
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 40.1 37.2 55.8

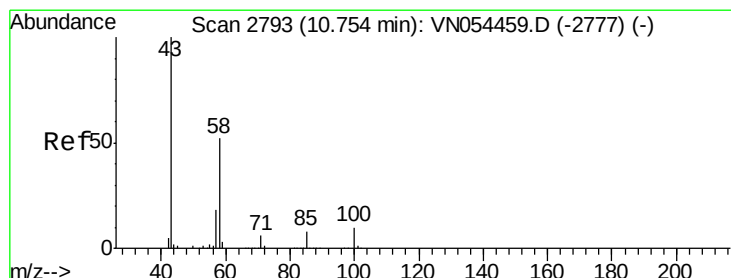
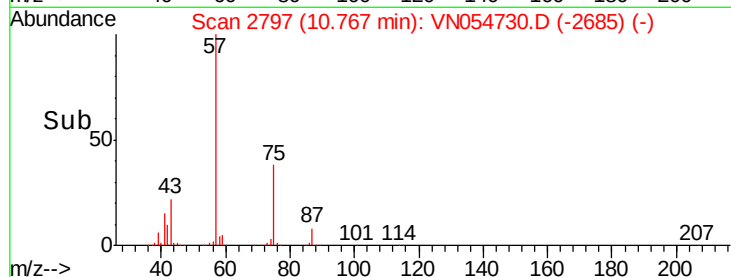
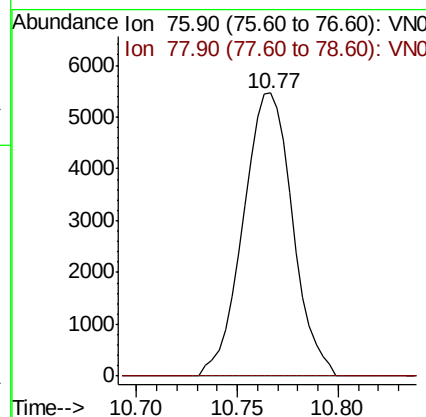
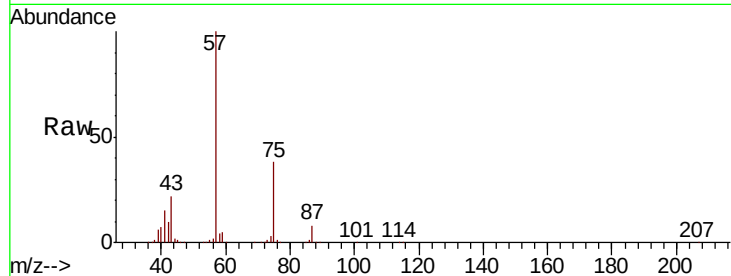




#57
 1,3-Dichloropropane
 Concen: 1.082 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

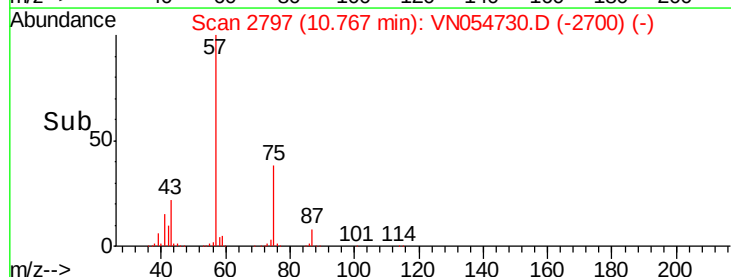
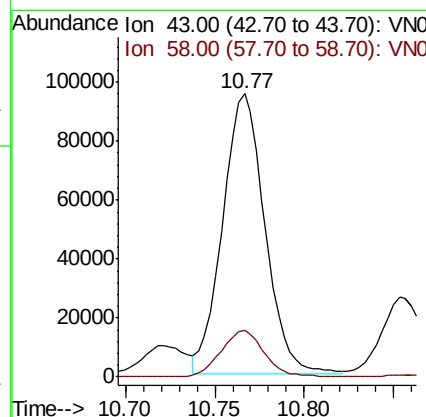
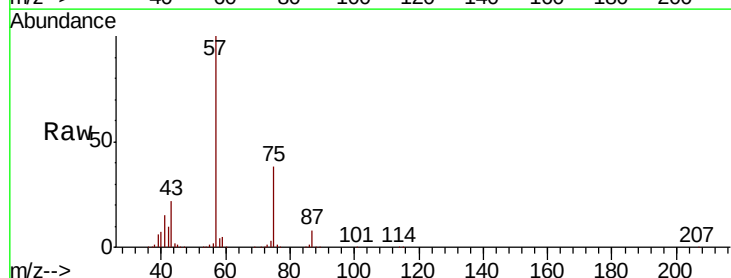
Instrument :
 MSVOA_N
 ClientSampleId :

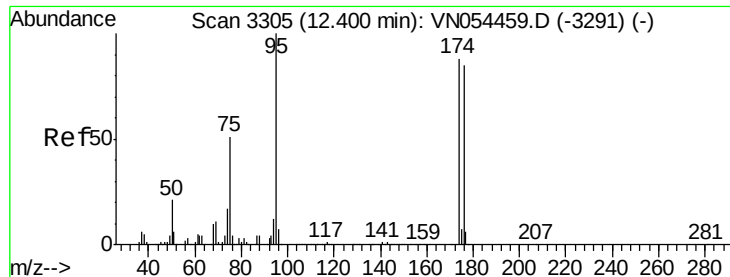
Tot Ion: 76 Resp: 9362
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 45.716 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054730.D
 Acq: 27 Mar 2019 18:47

Tgt Ion: 43 Resp: 156446
 Ion Ratio Lower Upper
 43 100
 58 17.1 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 45.003 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

ClientSampleId :

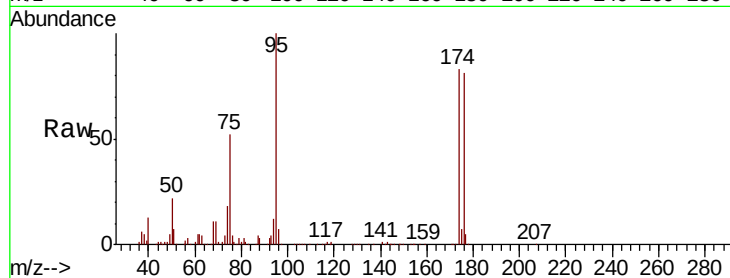
Tot Ion: 95 Resp: 312188

Ion Ratio Lower Upper

95 100

174 84.5 0.0 191.0

176 81.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054730.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054730.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054730.D (-2903) (-)

12.40

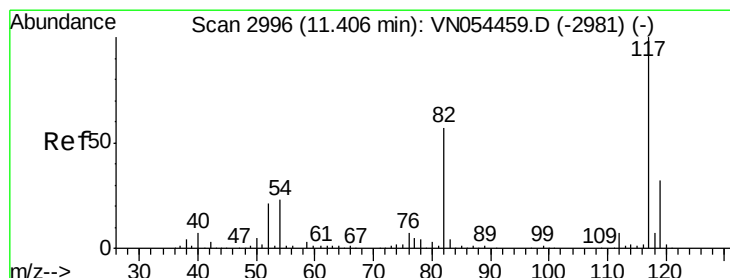
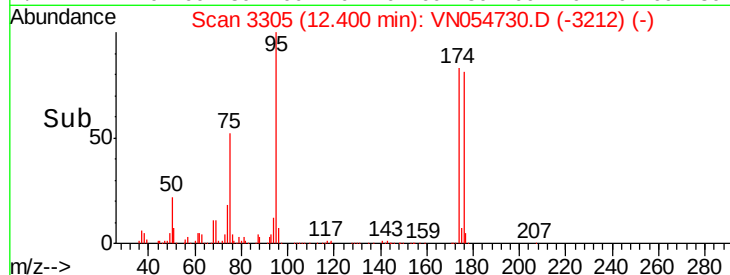
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

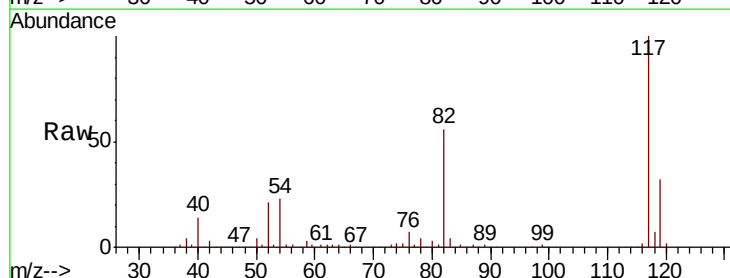
Tgt Ion: 117 Resp: 724881

Ion Ratio Lower Upper

117 100

82 55.9 40.0 60.0

119 31.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN054730.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054730.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054730.D (-2903) (-)

11.41

500000

400000

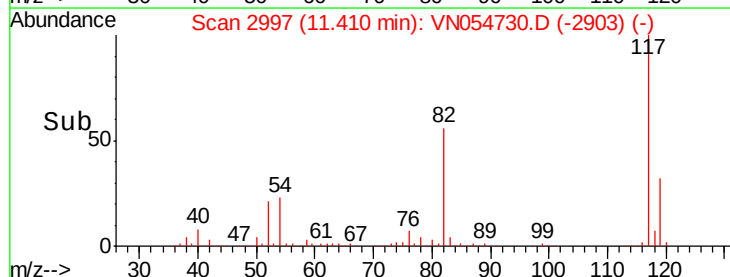
300000

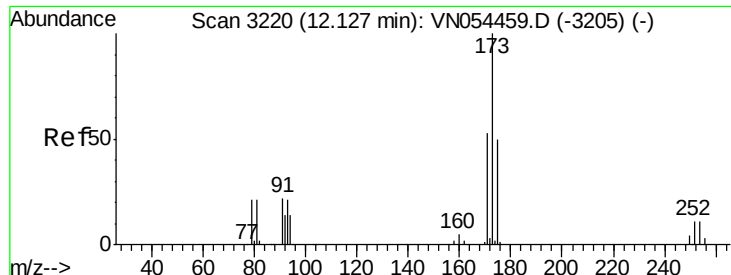
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 2.446 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

ClientSampled :

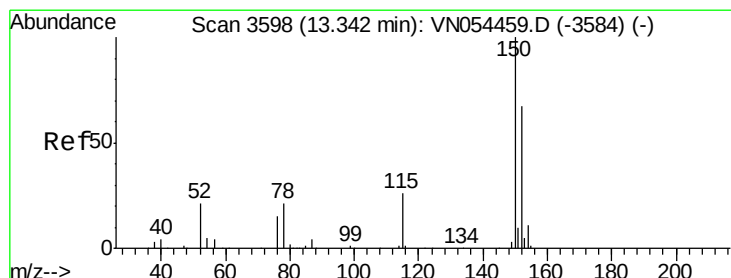
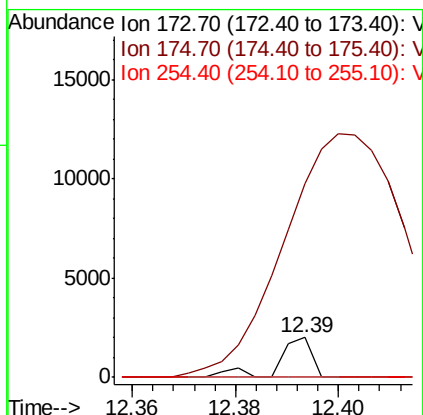
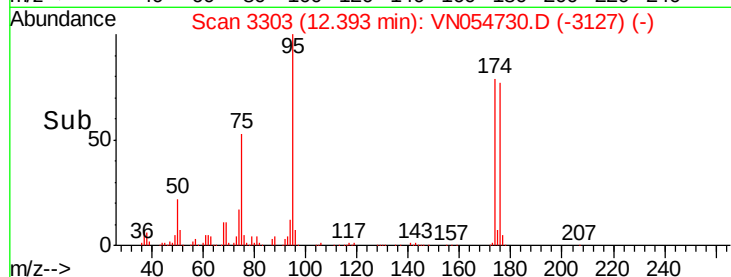
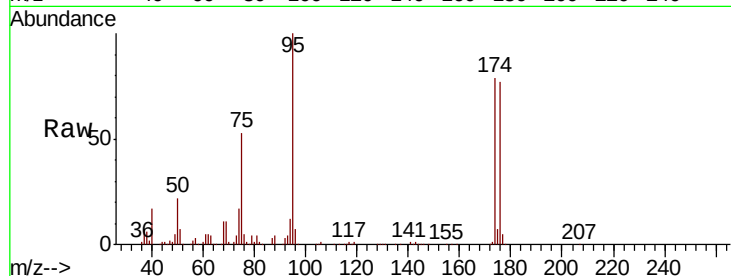
Tot Ion:173 Resp: 860

Ion Ratio Lower Upper

173 100

175 2092.7 24.4 73.2#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

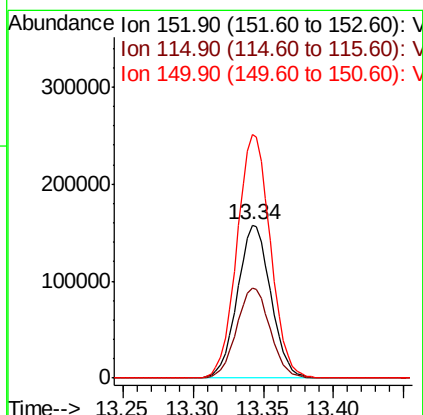
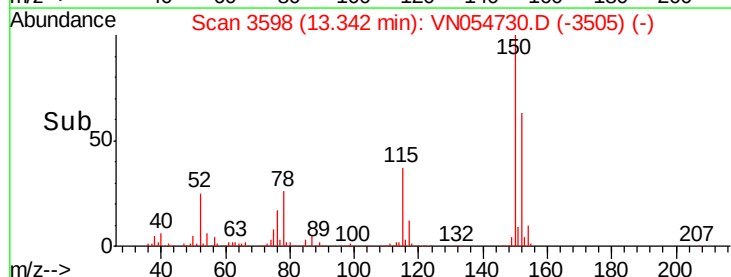
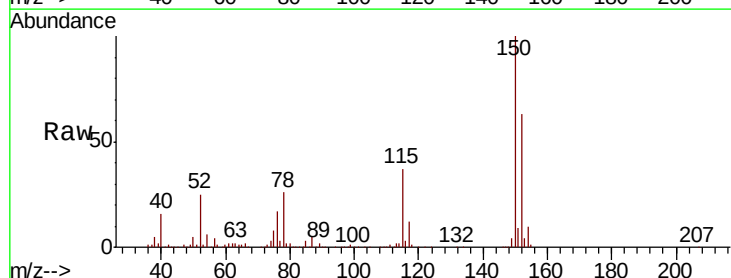
Tgt Ion:152 Resp: 261105

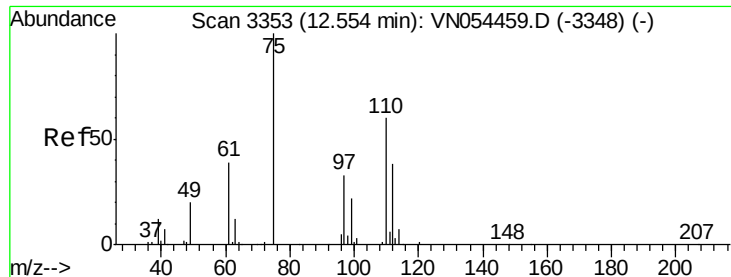
Ion Ratio Lower Upper

152 100

115 59.2 27.2 81.6

150 159.3 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 39.564 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

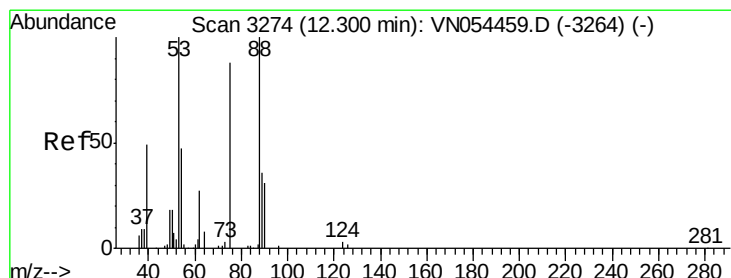
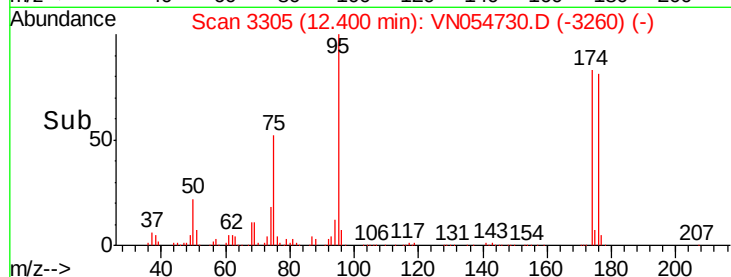
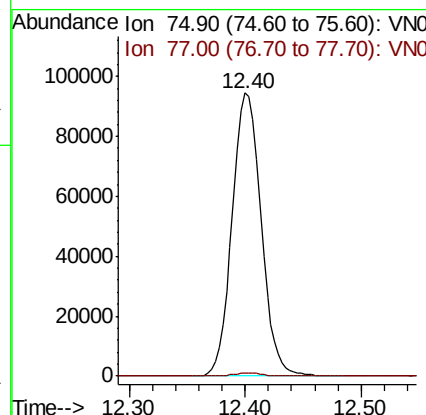
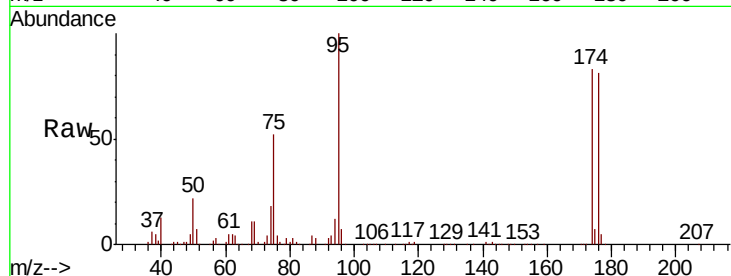
ClientSampleId :

Tot Ion: 75 Resp: 163929

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 130.912 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

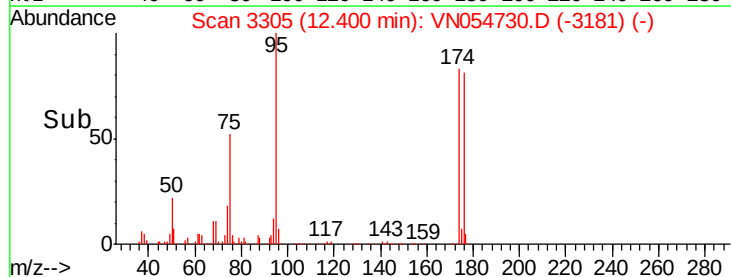
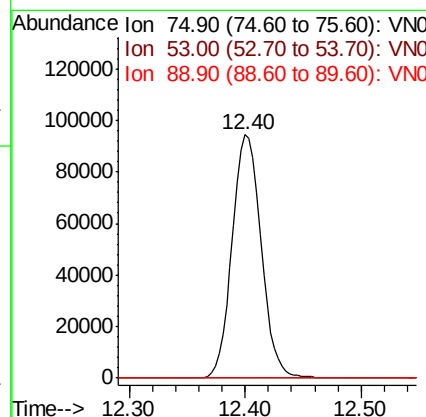
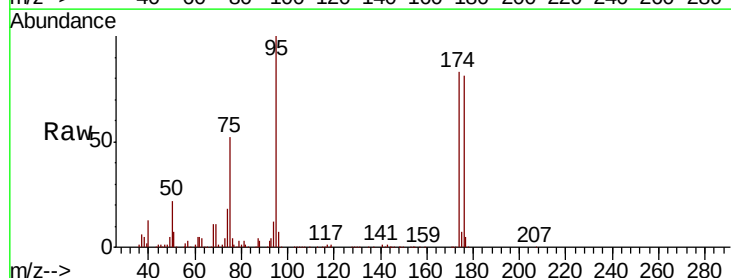
Tgt Ion: 75 Resp: 163929

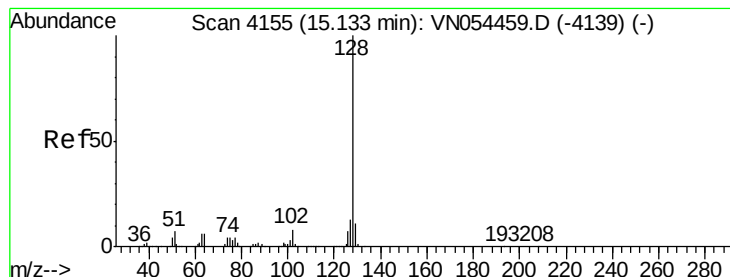
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#





#95

Naphthalene

Concen: 0.244 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

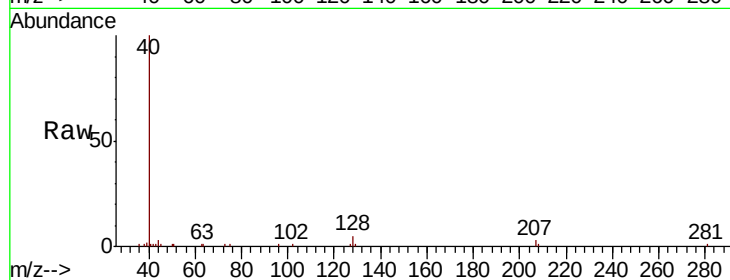
Lab File: VN054730.D

Acq: 27 Mar 2019 18:47

Instrument :

MSVOA_N

ClientSampleId :



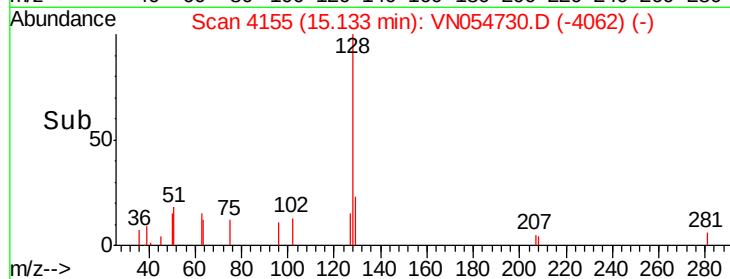
Tot Ion:128 Resp: 2268

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 8.7 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

