

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054694.D
 Acq On : 26 Mar 2019 13:13
 Operator : JC/SP
 Sample : K2091-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:06:48 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	549173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	877468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	745148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	277684	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	359369	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
35) Dibromofluoromethane	7.59	113	279283	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	10.09	98	1057229	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.40	95	325469	45.01	ug/l	0.00
Spiked Amount			Recovery	=	90.02%	

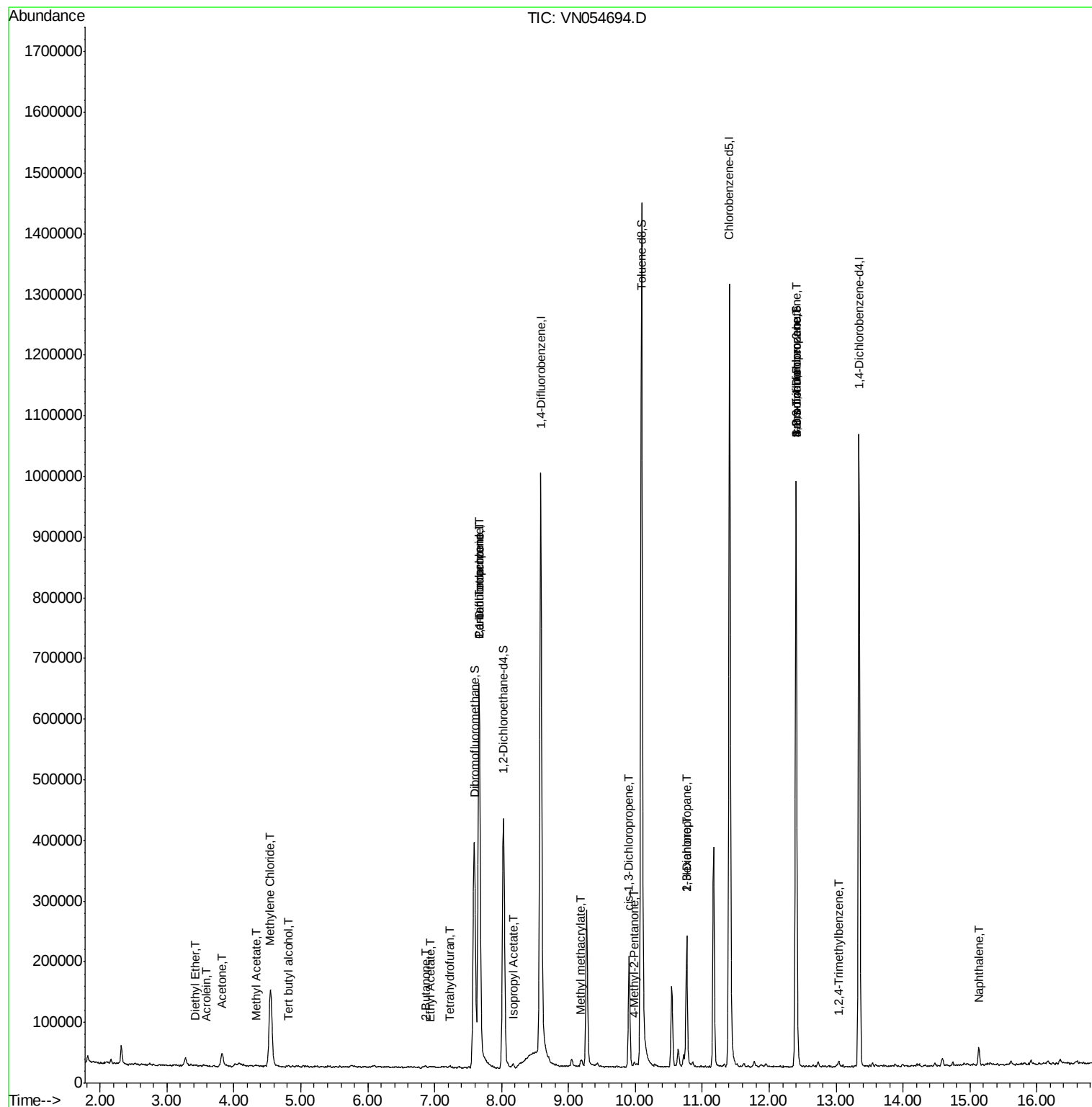
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	986	0.294	ug/l #	6
11) Tert butyl alcohol	4.82	59	1335	3.228	ug/l #	77
13) Acrolein	3.60	56	115	0.202	ug/l #	1
16) Acetone	3.82	43	40818	19.875	ug/l #	85
18) Methyl Acetate	4.33	43	1919	0.419	ug/l #	59
20) Methylene Chloride	4.55	84	88599	14.635	ug/l #	83
25) 2-Butanone	6.86	43	3208	1.219	ug/l #	84
29) Tetrahydrofuran	7.23	42	1111	0.651	ug/l #	40
31) Cyclohexane	7.66	56	12373	Below Cal	#	42
36) 1,1-Dichloropropene	7.66	75	42194	5.143	ug/l #	48
37) Ethyl Acetate	6.94	43	1228	0.210	ug/l #	80
38) Carbon Tetrachloride	7.66	117	49895	6.258	ug/l #	16
43) Isopropyl Acetate	8.17	43	7211	0.732	ug/l	95
48) Methyl methacrylate	9.18	41	4323	0.808	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	4981	0.912	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	30357	3.394	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	1965	0.218	ug/l #	43
59) 2-Hexanone	10.77	43	37356	10.471	ug/l #	50
71) Bromoform	12.39	173	766	2.416	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	169632	38.497	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169632	127.464	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	5150	0.286	ug/l	97
95) Naphthalene	15.13	128	23994	2.422	ug/l	98

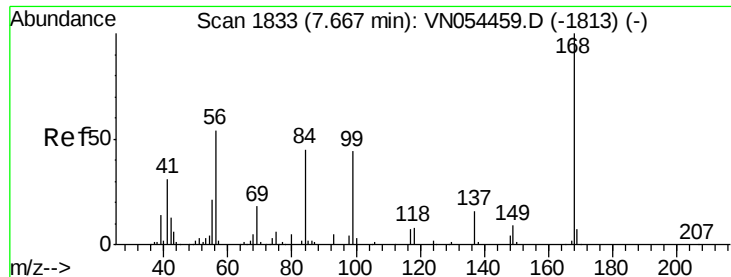
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

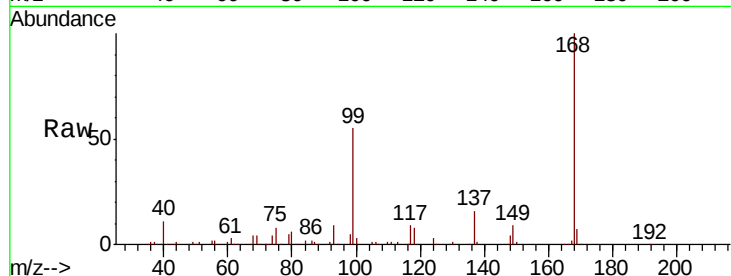
ClientSampled :

Tot Ion:168 Resp: 549173

Ion Ratio Lower Upper

168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054459.D

Ion 98.90 (98.60 to 99.60): VN054459.D

7.67

250000

200000

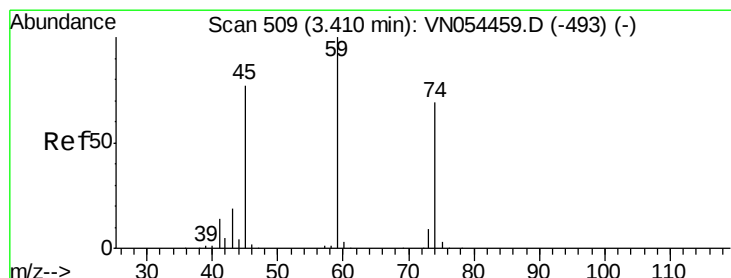
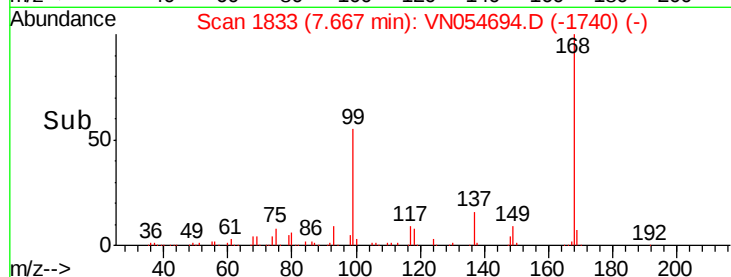
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.294 ug/l

RT: 3.41 min Scan# 509

Delta R.T. 0.00 min

Lab File: VN054694.D

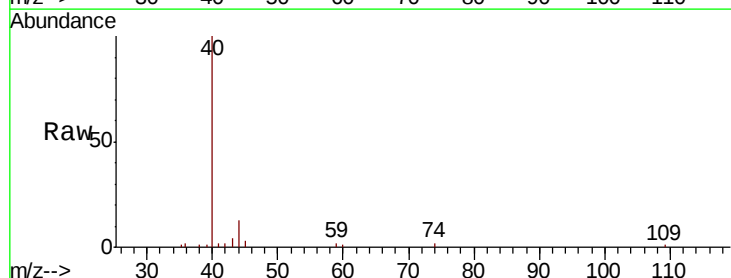
Acq: 26 Mar 2019 13:13

Tgt Ion: 74 Resp: 986

Ion Ratio Lower Upper

74 100

45 0.0 43.1 129.4#



Abundance Ion 74.00 (73.70 to 74.70): VN054459.D

Ion 45.00 (44.70 to 45.70): VN054459.D

3.41

1200

1000

800

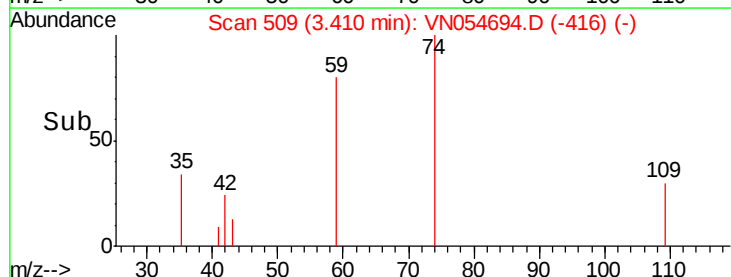
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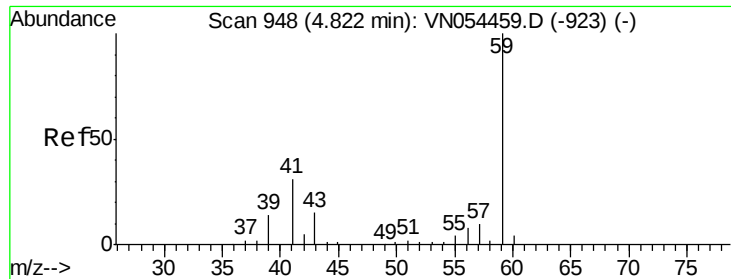
400

200

0

Time-->

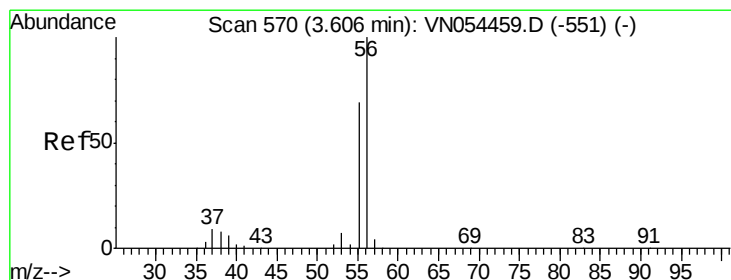
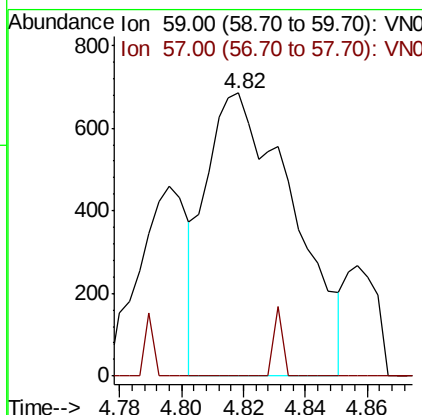
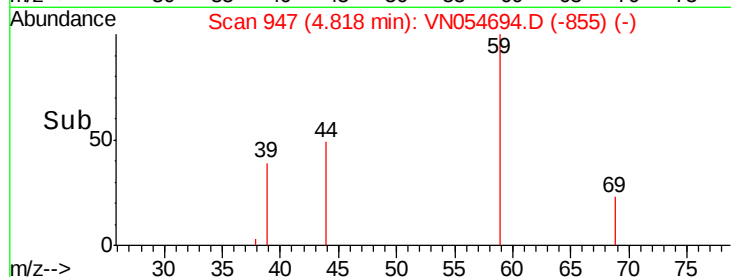
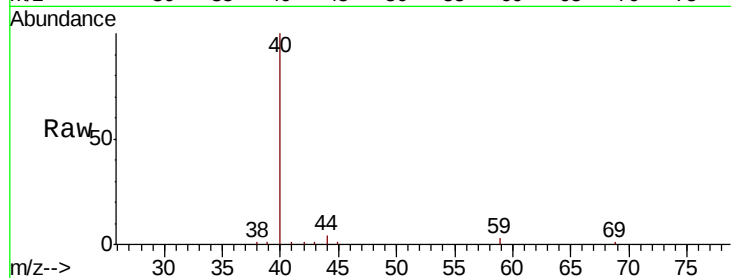




#11
Tert butyl alcohol
Concen: 3.228 ug/l
RT: 4.82 min Scan# 947
Delta R.T. -0.00 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

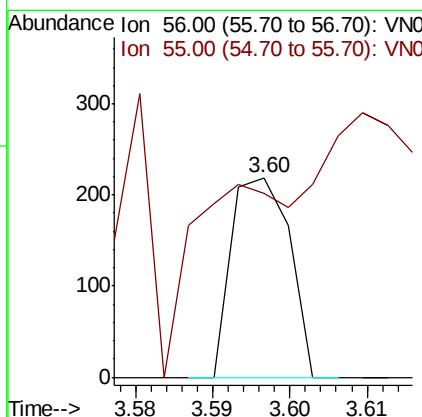
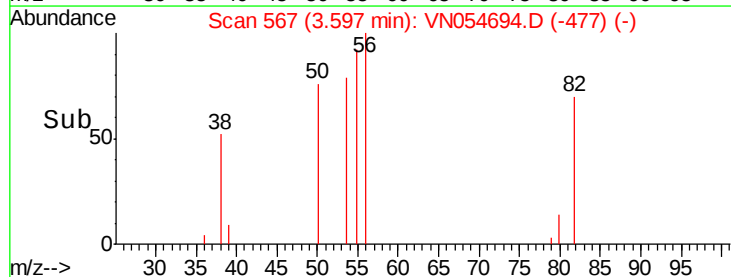
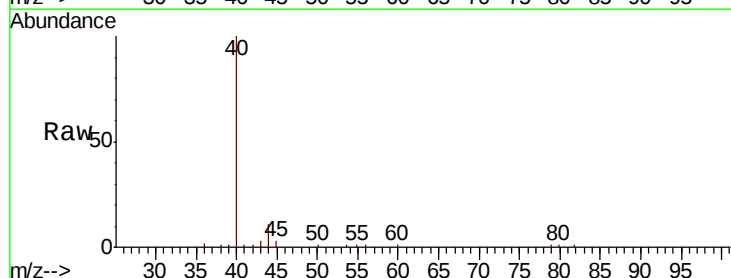
Instrument :
MSVOA_N
ClientSampled :

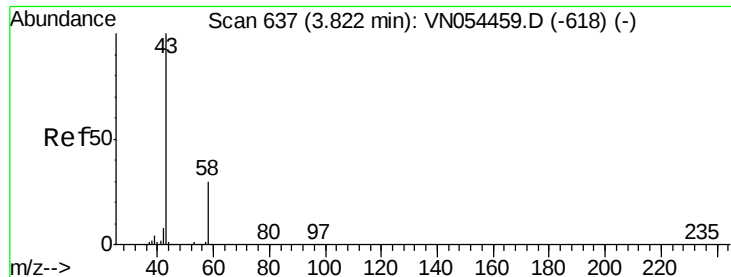
Tot Ion: 59 Resp: 1335
Ion Ratio Lower Upper
59 100
57 2.5 9.0 13.6#



#13
Acrolein
Concen: 0.202 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 160.9 56.7 85.1#





#16

Acetone

Concen: 19.875 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

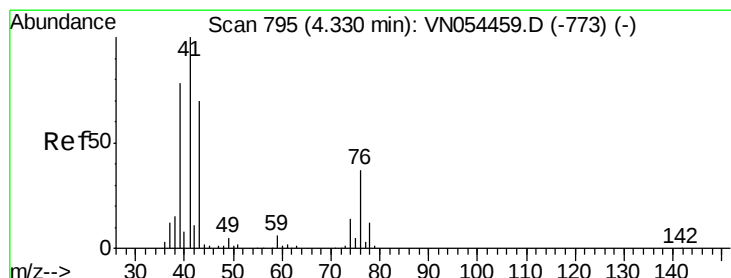
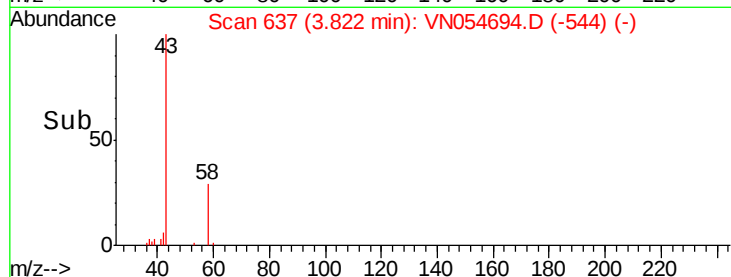
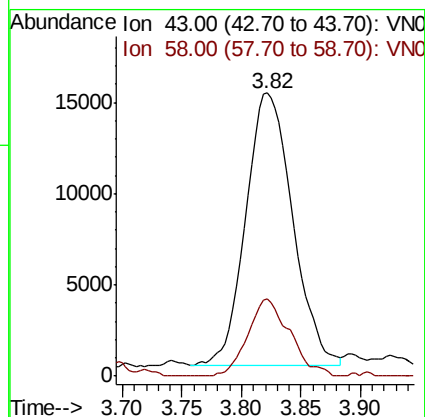
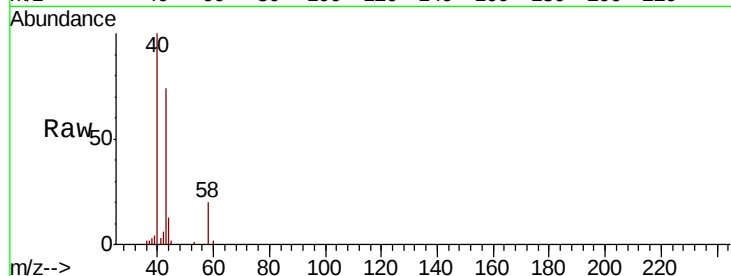
ClientSampled :

Tot Ion: 43 Resp: 40818

Ion Ratio Lower Upper

43 100

58 28.5 29.9 44.9#



#18

Methyl Acetate

Concen: 0.419 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054694.D

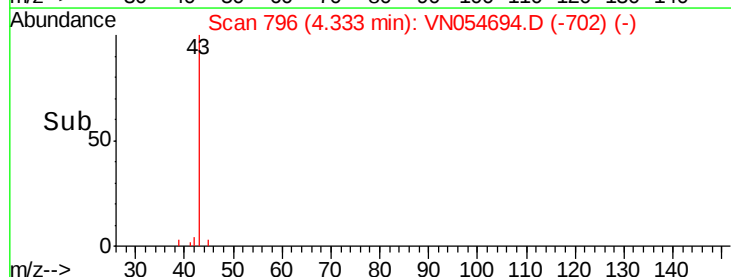
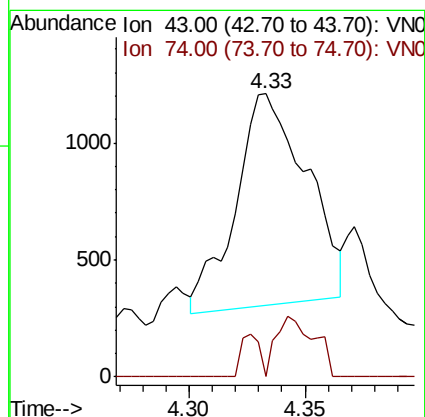
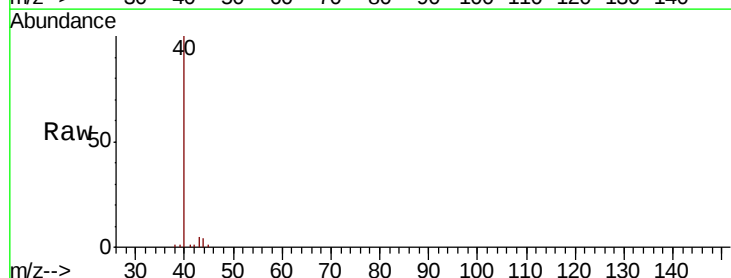
Acq: 26 Mar 2019 13:13

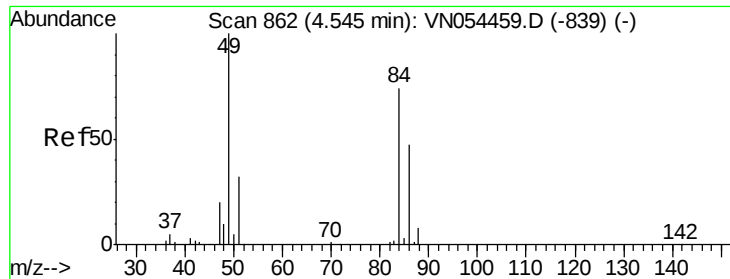
Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

43 100

74 5.0 20.8 31.2#

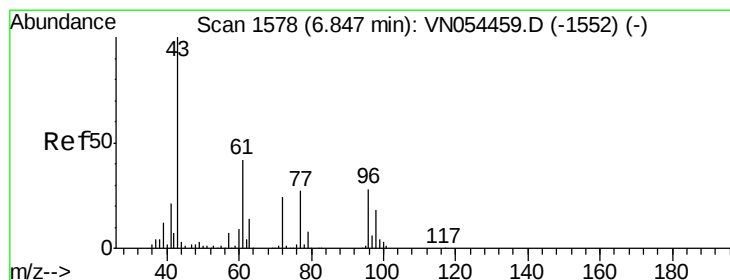
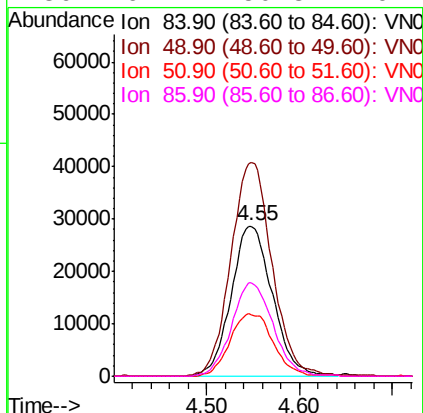
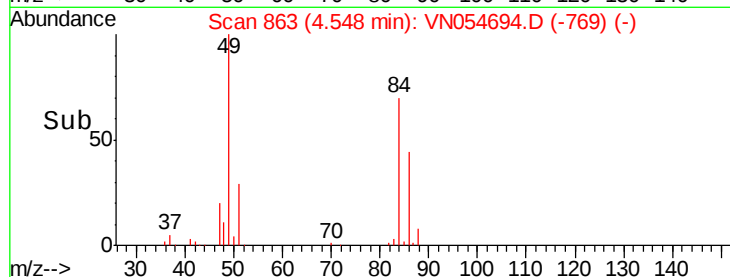
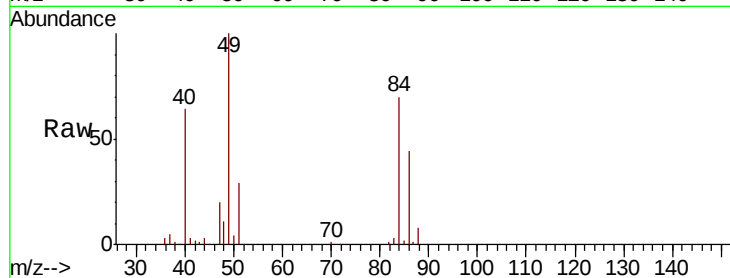




#20
Methvlene Chloride
Concen: 14.635 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

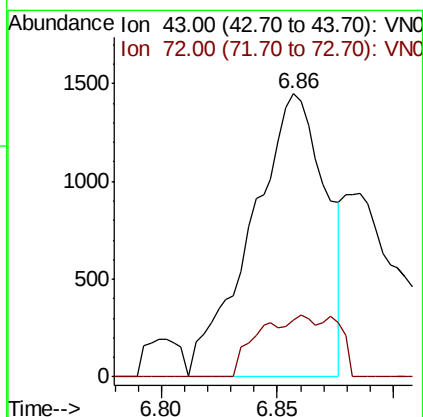
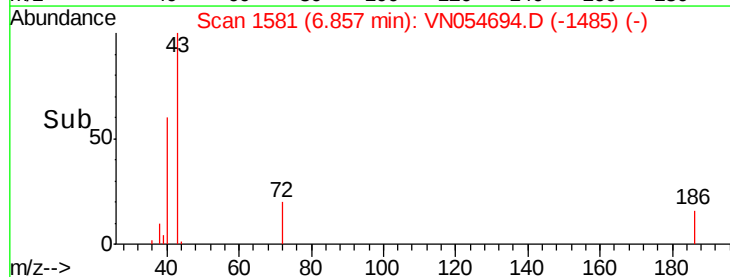
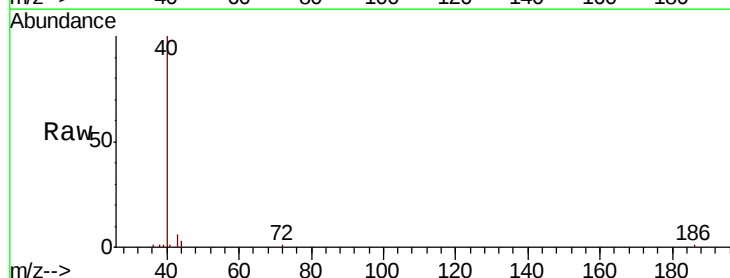
Instrument :
MSVOA_N
ClientSampled :

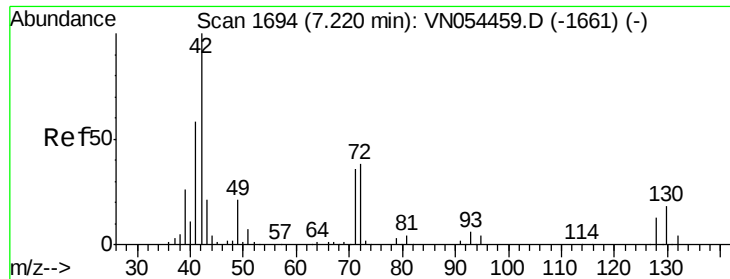
Tot Ion: 84 Resp: 88599
Ion Ratio Lower Upper
84 100
49 141.4 89.7 134.5#
51 40.6 28.2 42.4
86 62.1 50.8 76.2



#25
2-Butanone
Concen: 1.219 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 43 Resp: 3208
Ion Ratio Lower Upper
43 100
72 20.2 23.0 34.6#

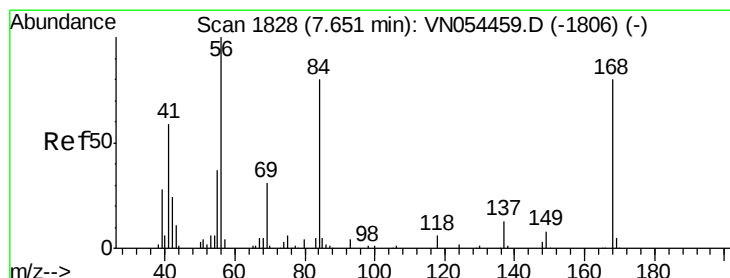
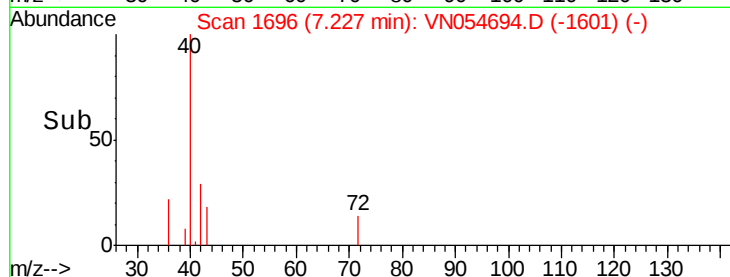
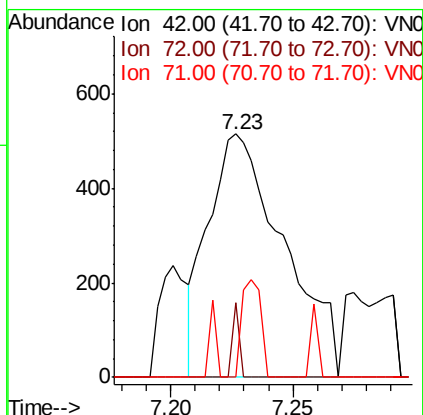
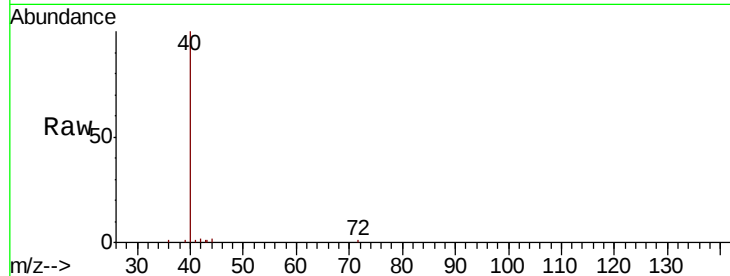




#29
Tetrahydrofuran
Concen: 0.651 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

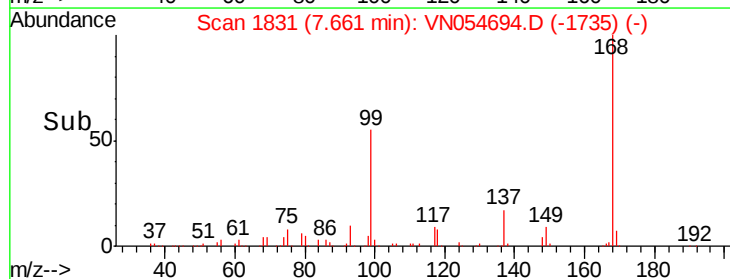
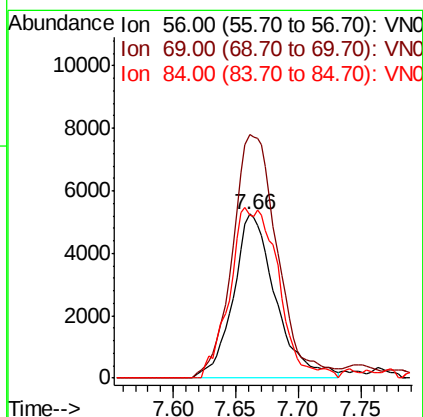
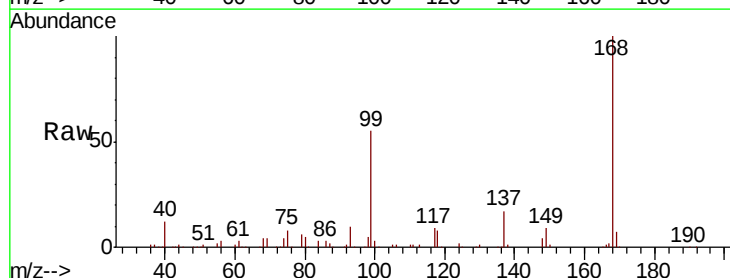
Instrument :
MSVOA_N
ClientSampleId :

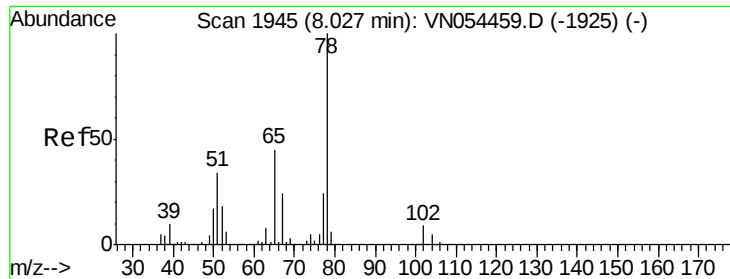
Tot Ion: 42 Resp: 1111
Ion Ratio Lower Upper
42 100
72 2.7 37.8 56.6#
71 10.0 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 56 Resp: 12373
Ion Ratio Lower Upper
56 100
69 148.5 27.8 41.6#
84 99.3 74.6 111.8





#33

1,2-Dichloroethane-d4

Concen: 52.610 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

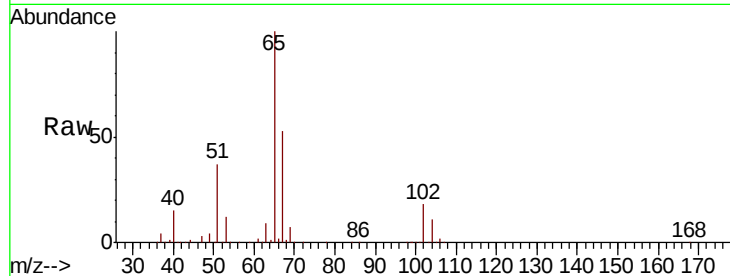
ClientSampleId :

Tot Ion: 65 Resp: 359369

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

150000

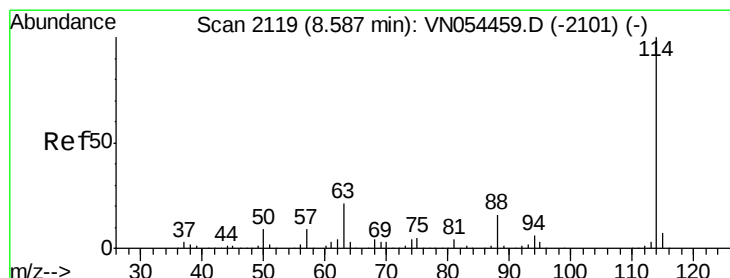
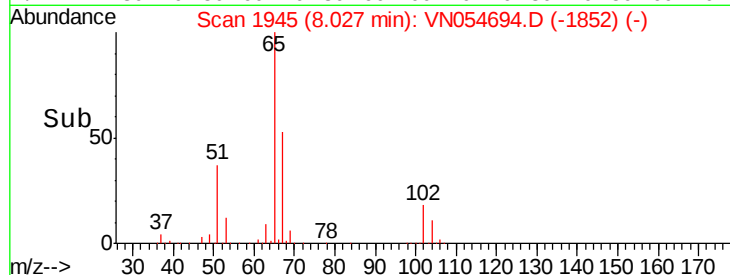
100000

50000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

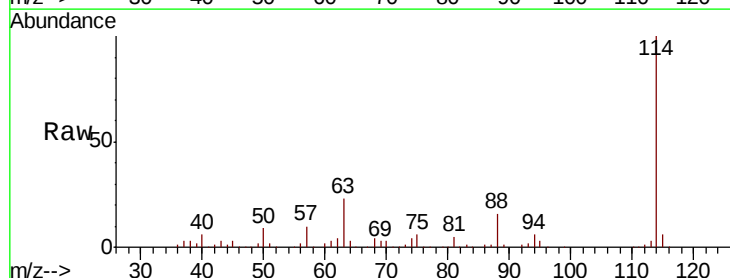
Tgt Ion: 114 Resp: 877468

Ion Ratio Lower Upper

114 100

63 22.7 0.0 35.2

88 16.1 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

500000

400000

300000

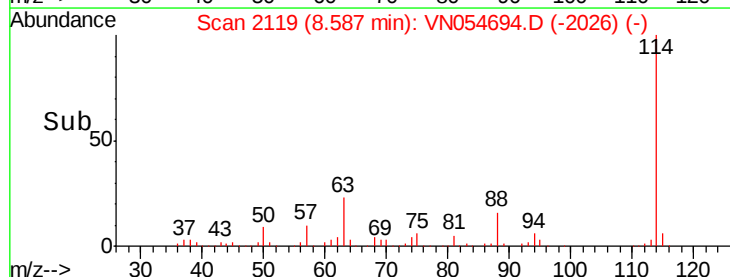
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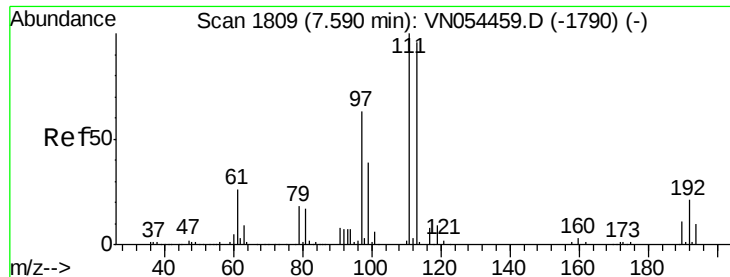
100000

0

Time-->

8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 49.404 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :
MSVOA_N
ClientSampleId :

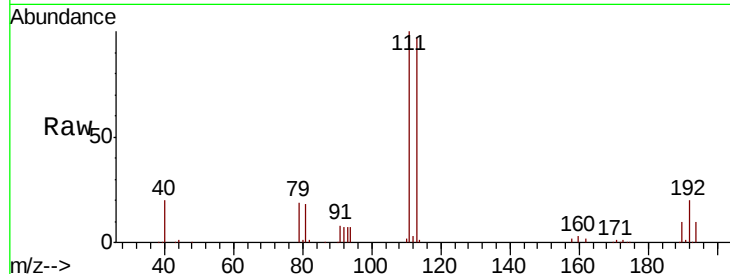
Tot Ion:113 Resp: 279283

Ion Ratio Lower Upper

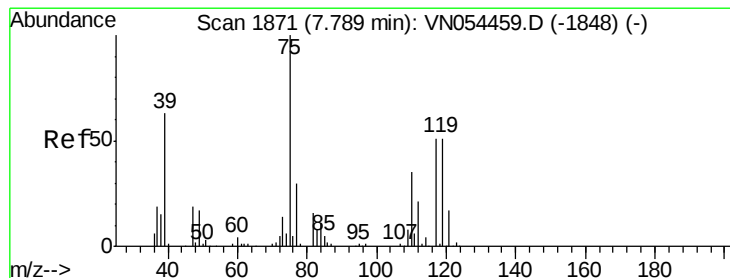
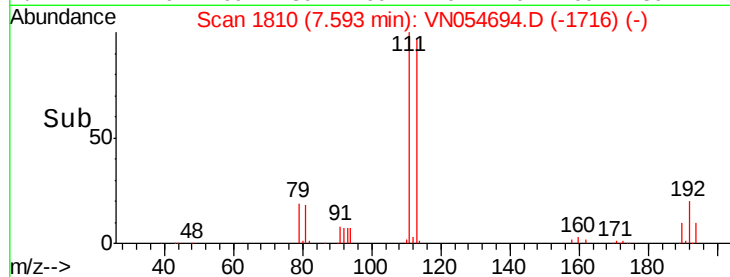
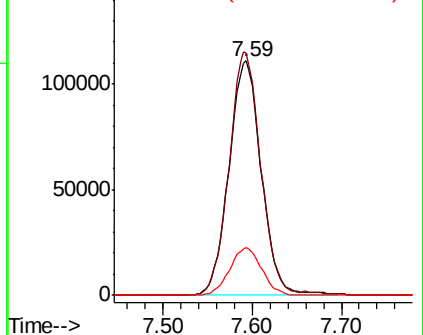
113 100

111 101.2 82.2 123.4

192 20.1 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: 5.143 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

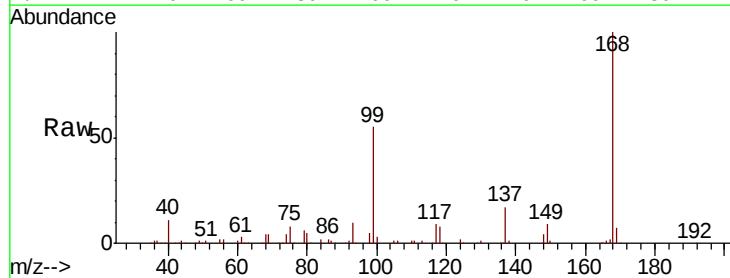
Tgt Ion: 75 Resp: 42194

Ion Ratio Lower Upper

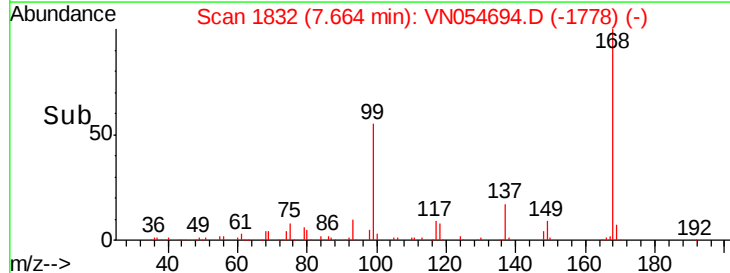
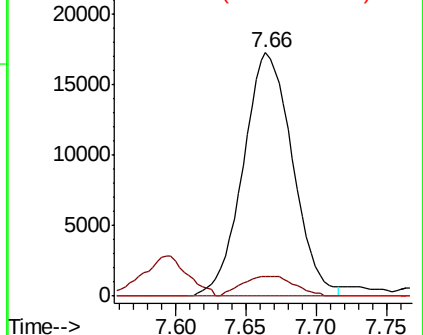
75 100

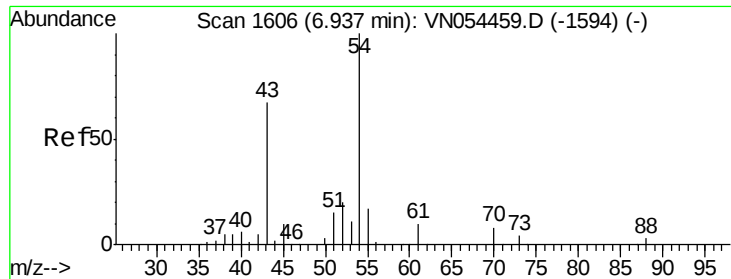
110 8.7 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

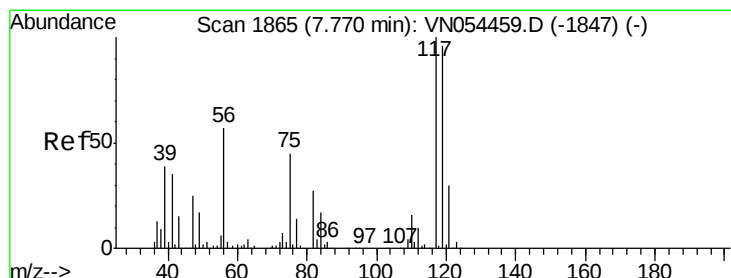
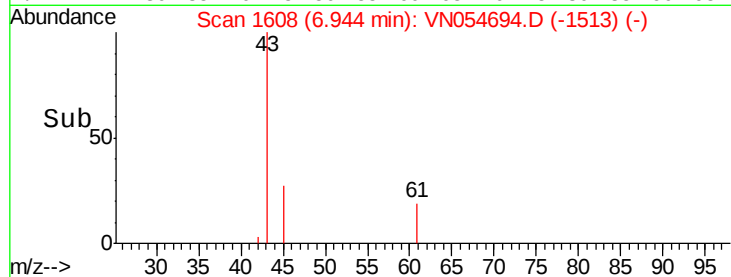
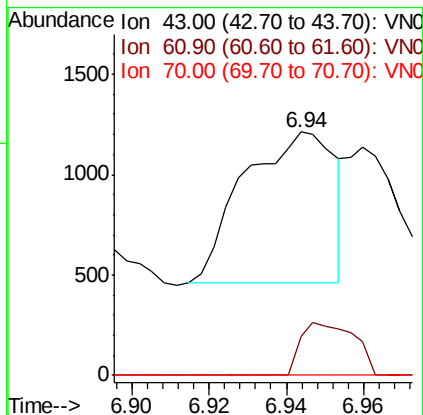
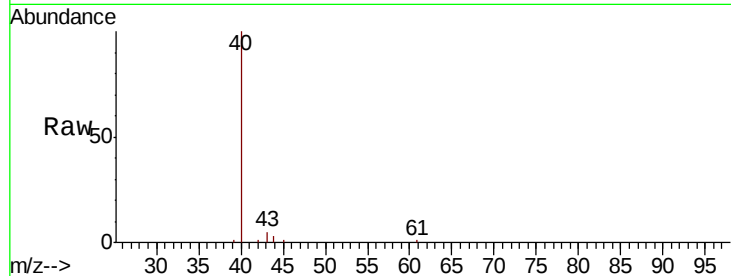




#37
Ethyl Acetate
Concen: 0.210 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

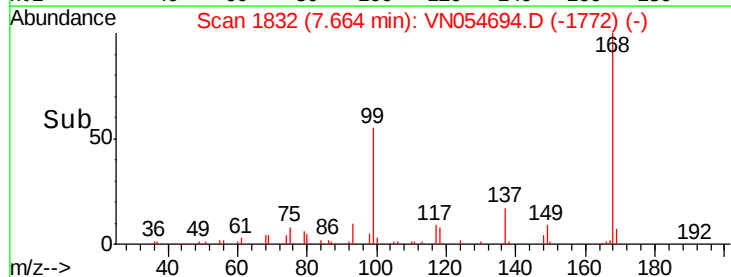
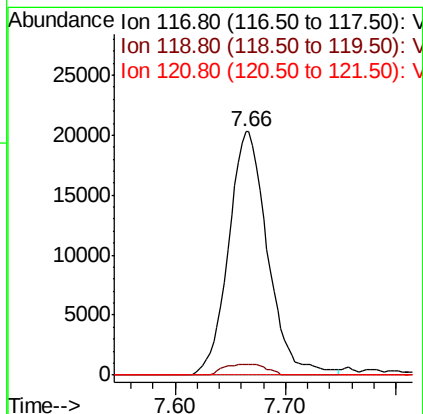
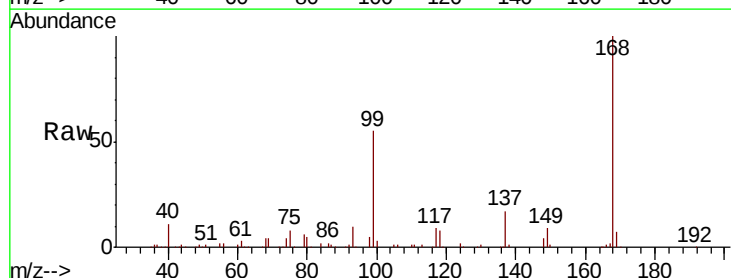
Instrument :
MSVOA_N
ClientSampled :

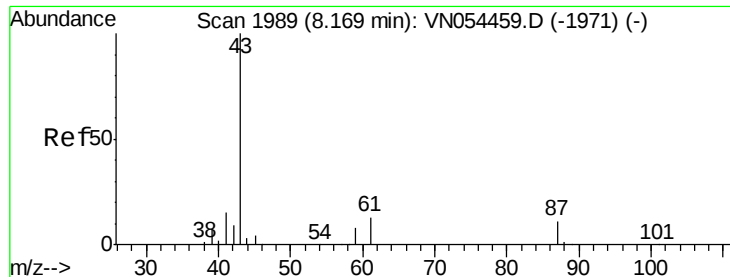
Tot Ion: 43 Resp: 1228
Ion Ratio Lower Upper
43 100
61 20.7 11.8 17.6#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.258 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 117 Resp: 49895
Ion Ratio Lower Upper
117 100
119 4.4 76.3 114.5#
121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.732 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

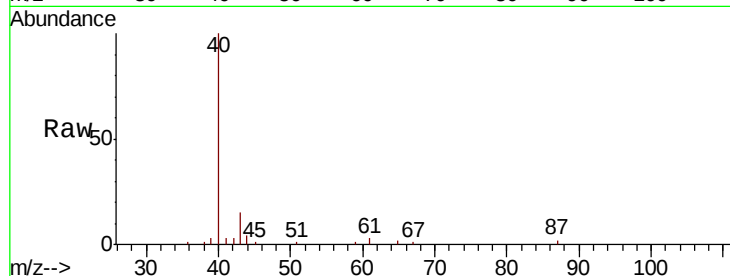
Tot Ion: 43 Resp: 7211

Ion Ratio Lower Upper

43 100

61 21.4 15.8 23.8

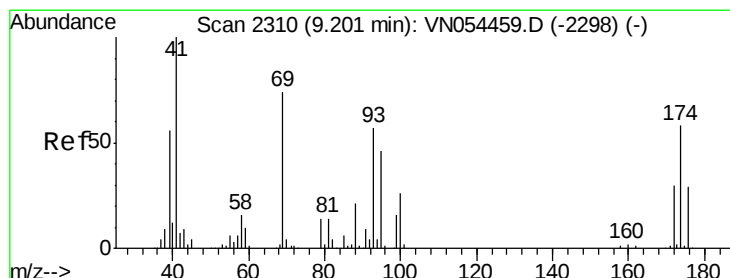
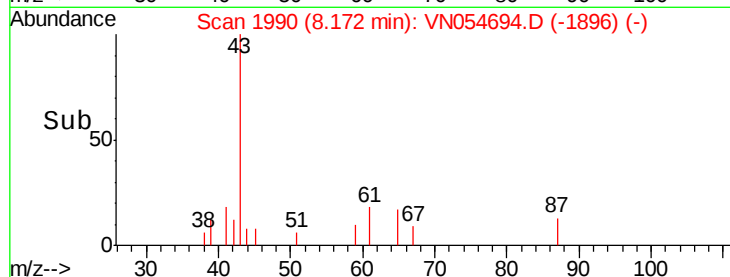
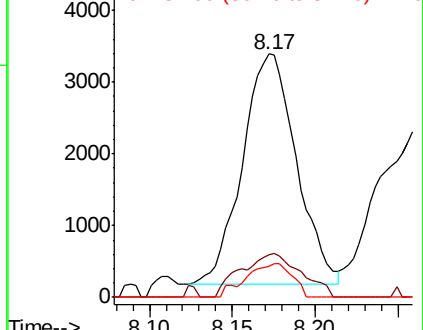
87 12.5 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 0.808 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

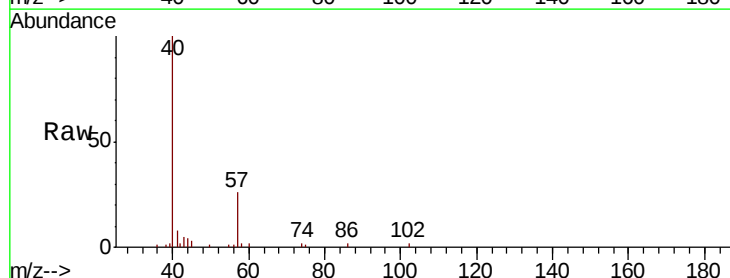
Tgt Ion: 41 Resp: 4323

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

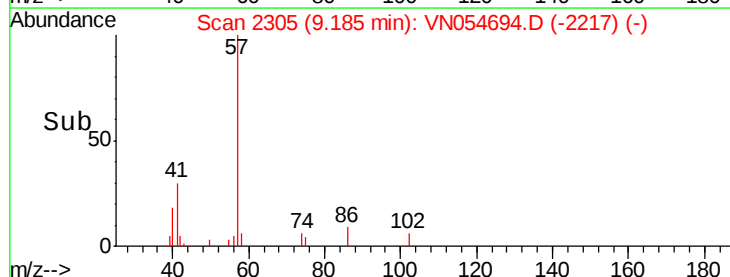
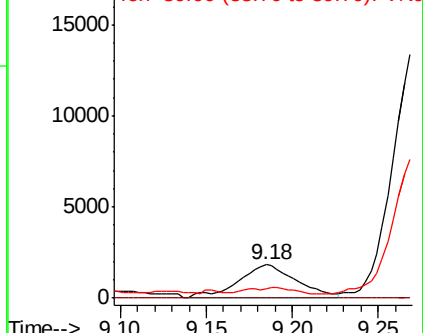
39 0.0 47.5 71.3#

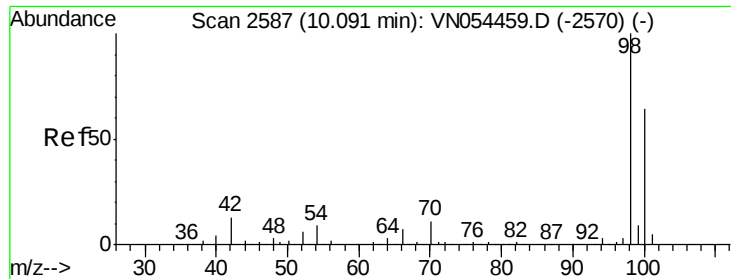


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 49.747 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

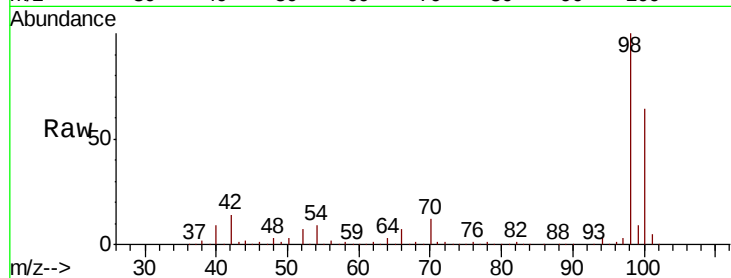
ClientSampled :

Tot Ion: 98 Resp: 1057229

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

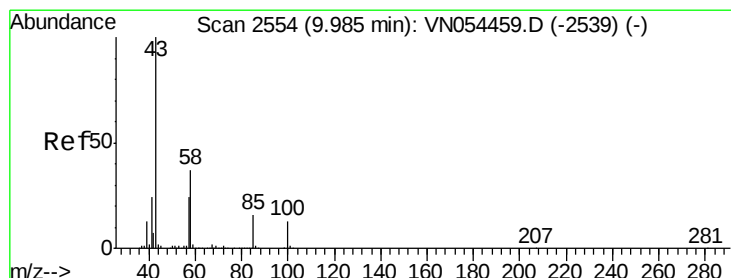
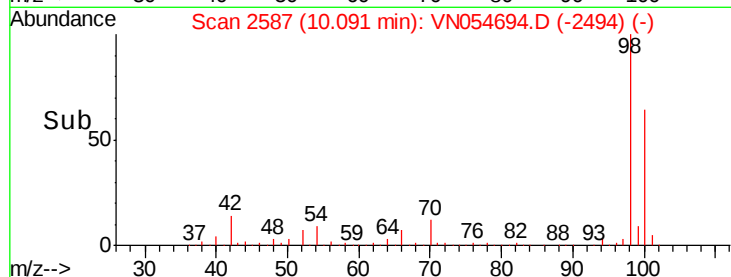
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.912 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054694.D

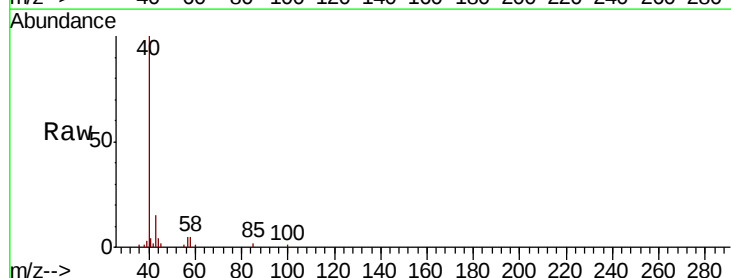
Acq: 26 Mar 2019 13:13

Tgt Ion: 43 Resp: 4981

Ion Ratio Lower Upper

43 100

58 43.5 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

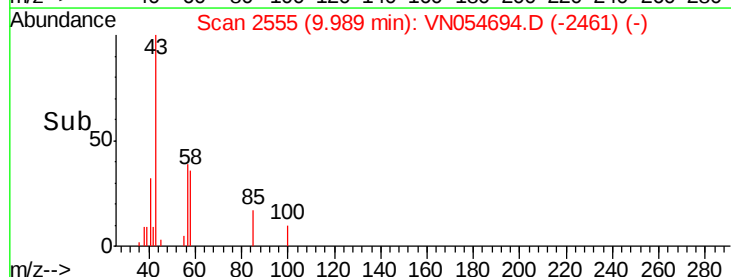
3000

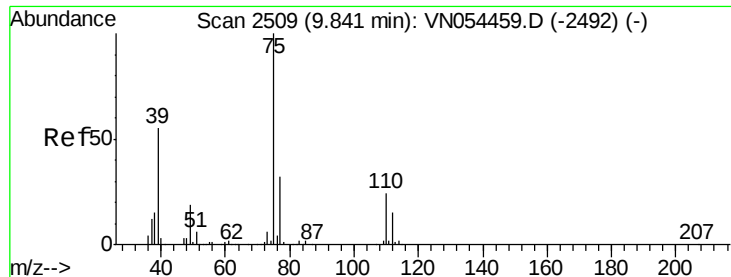
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 3.394 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

ClientSampled :

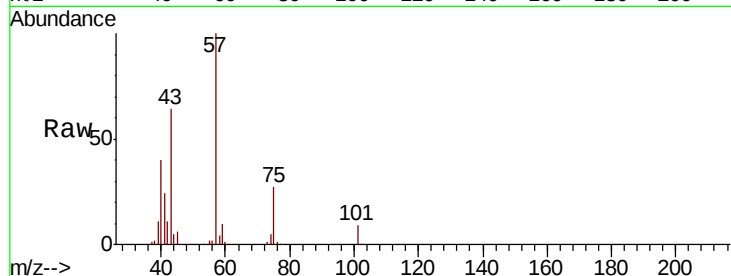
Tot Ion: 75 Resp: 30357

Ion Ratio Lower Upper

75 100

77 1.1 25.4 38.0#

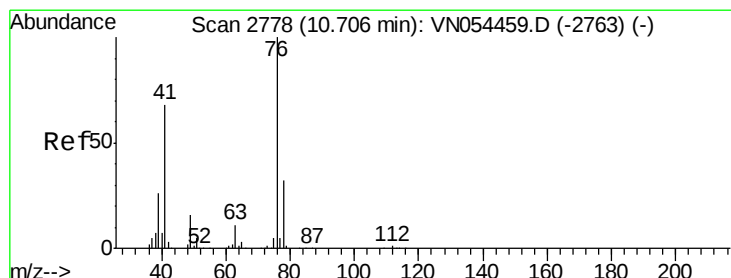
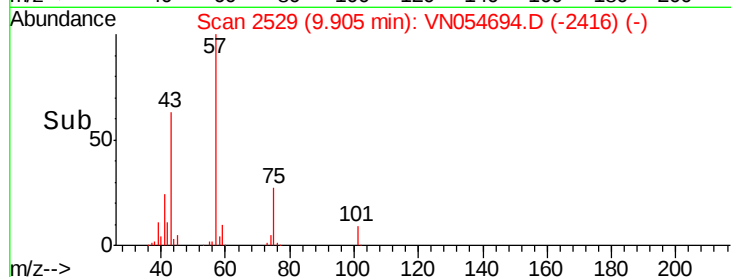
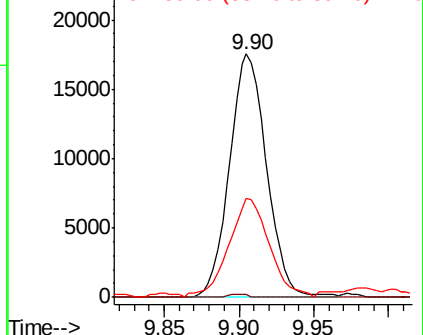
39 38.8 37.2 55.8



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



#57

1,3-Dichloropropane

Concen: 0.218 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054694.D

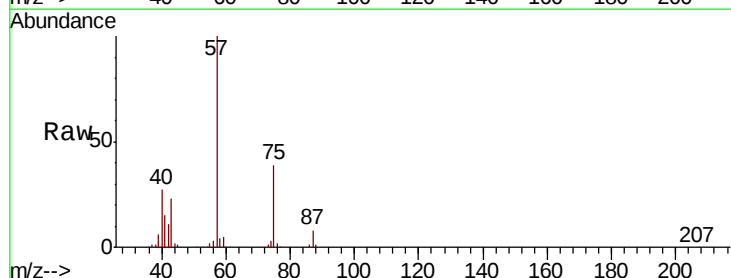
Acq: 26 Mar 2019 13:13

Tgt Ion: 76 Resp: 1965

Ion Ratio Lower Upper

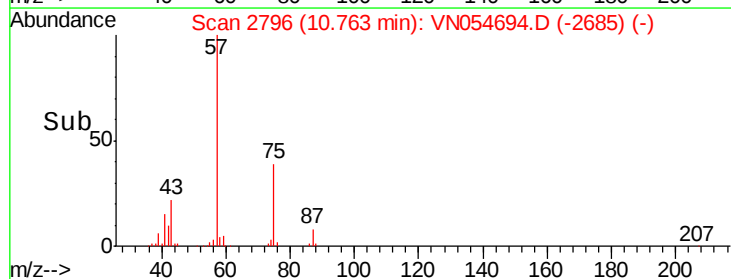
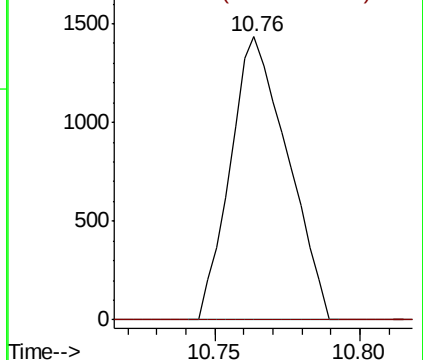
76 100

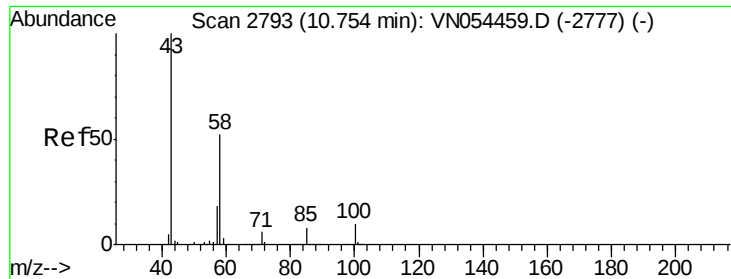
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

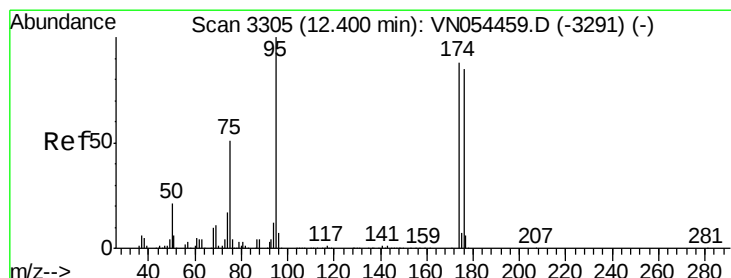
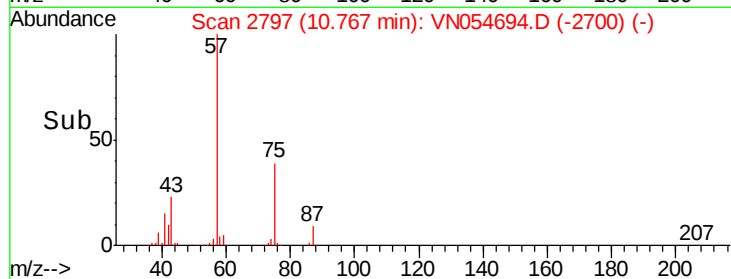
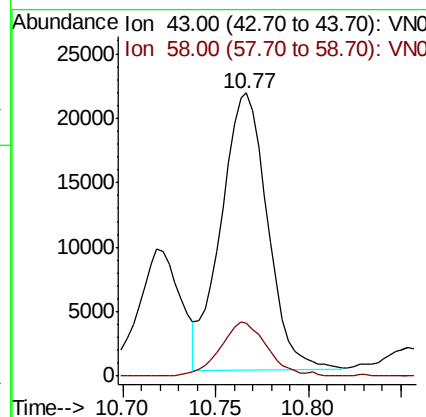
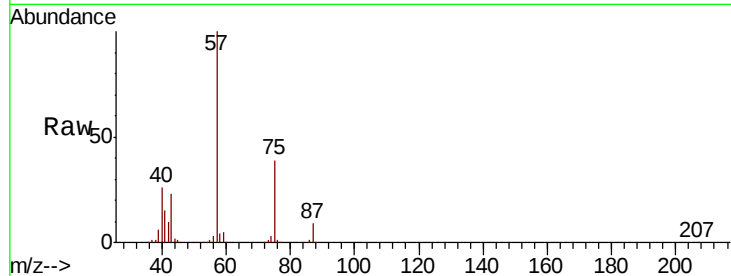




#59
2-Hexanone
Concen: 10.471 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

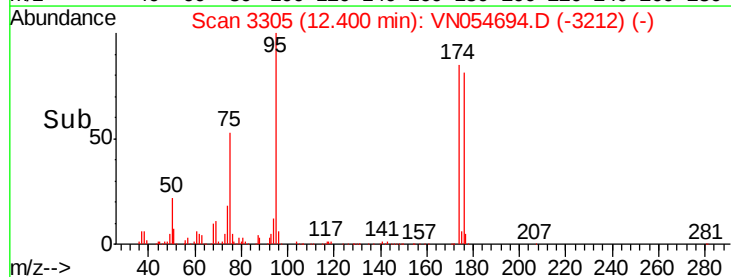
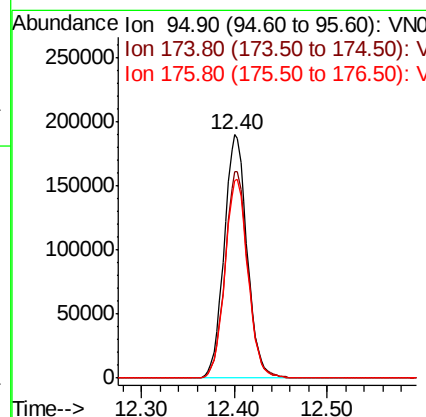
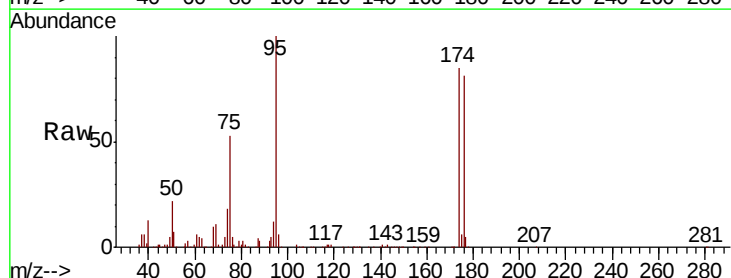
Instrument :
MSVOA_N
ClientSampled :

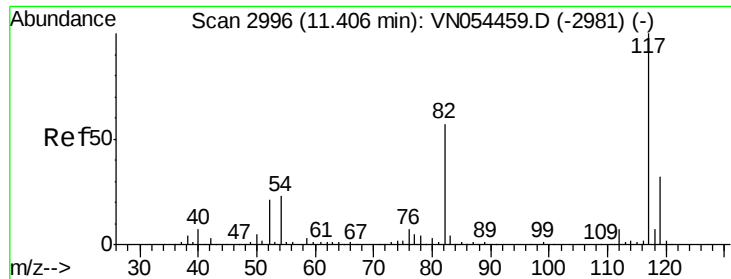
Tot Ion: 43 Resp: 37356
Ion Ratio Lower Upper
43 100
58 19.8 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 45.006 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 95 Resp: 325469
Ion Ratio Lower Upper
95 100
174 85.0 0.0 191.0
176 81.8 0.0 187.4

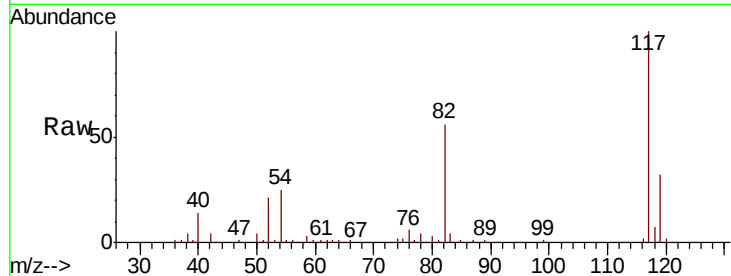




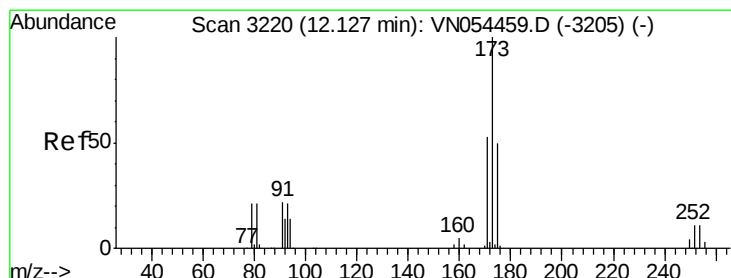
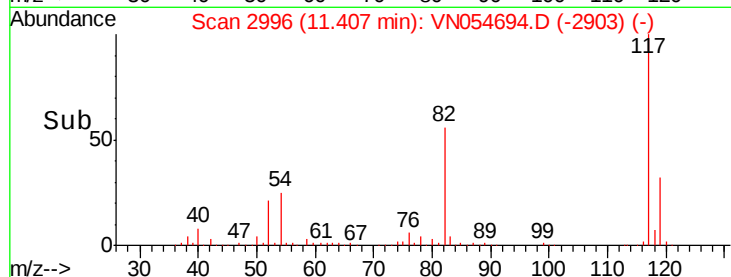
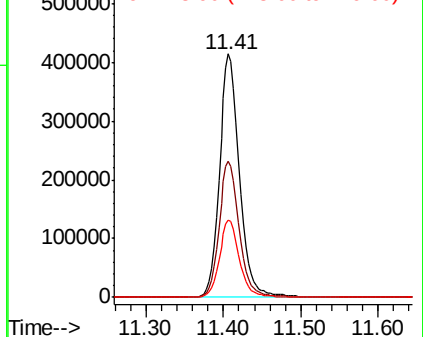
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 745148
Ion Ratio Lower Upper
117 100
82 56.1 40.0 60.0
119 31.8 25.8 38.6

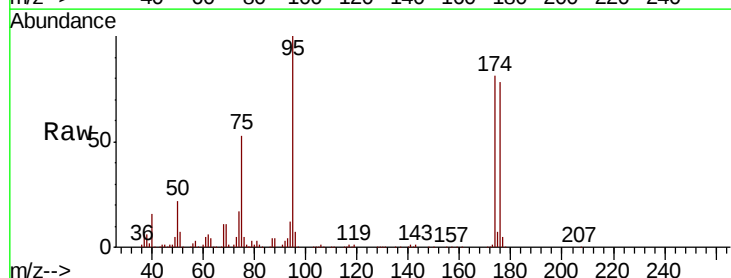


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

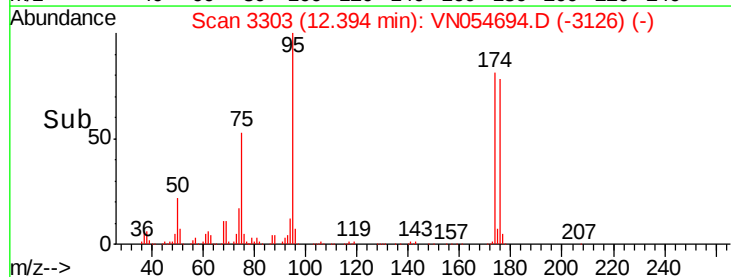
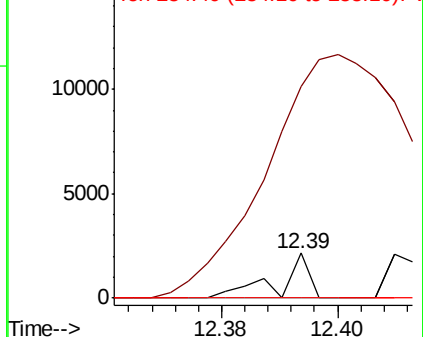


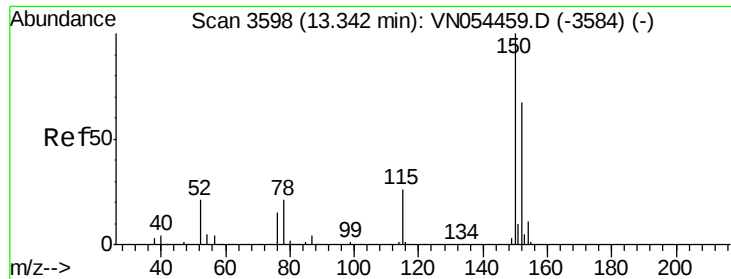
#71
Bromoform
Concen: 2.416 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion:173 Resp: 766
Ion Ratio Lower Upper
173 100
175 2390.6 24.4 73.2#
254 0.0 0.1 0.1#



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



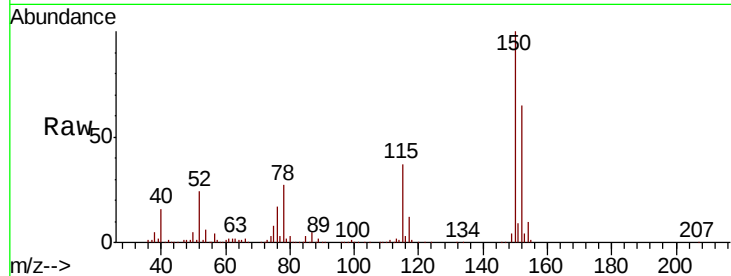


#72

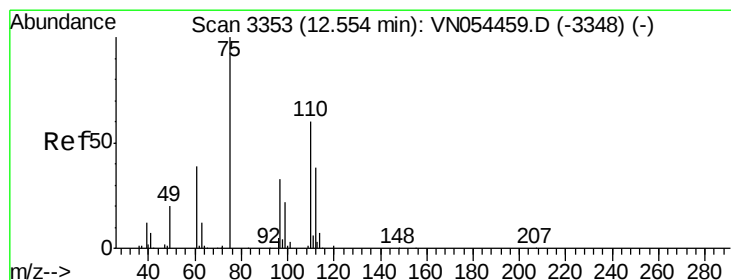
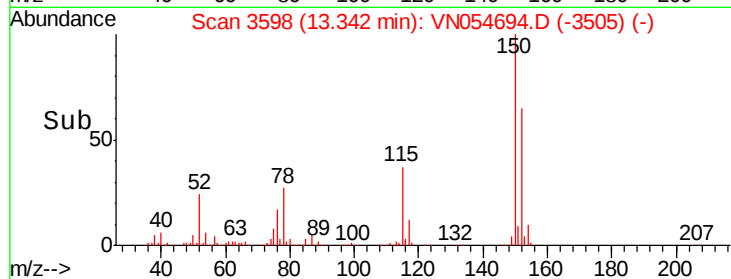
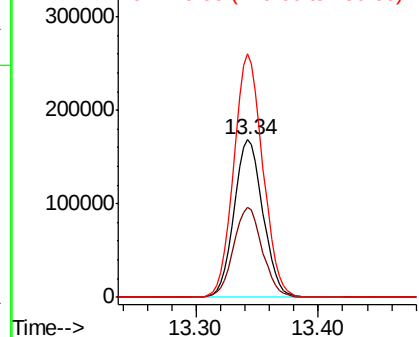
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 277684
Ion Ratio Lower Upper
152 100
115 57.3 27.2 81.6
150 155.2 0.0 349.2



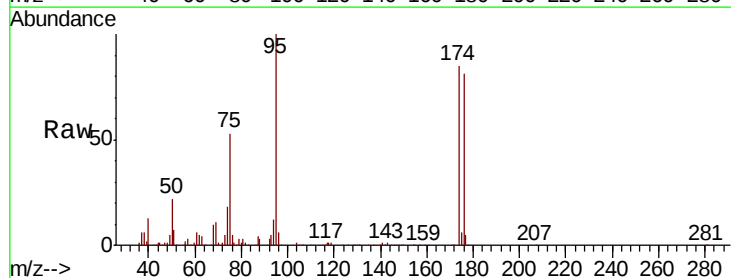
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



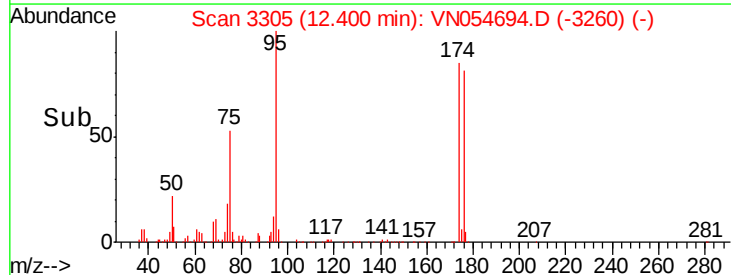
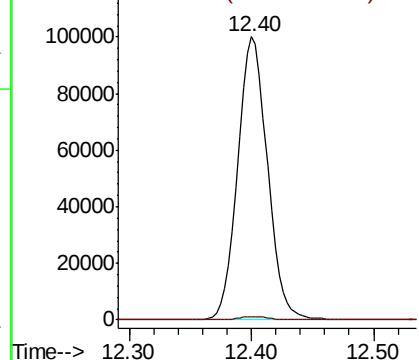
#76

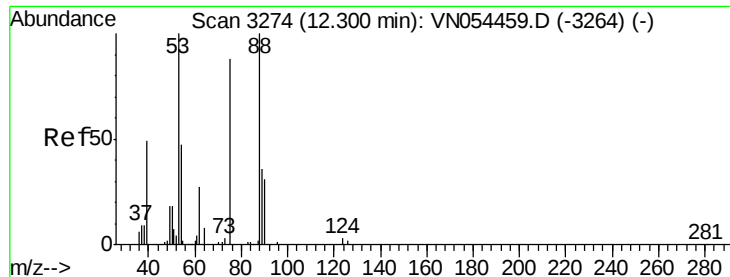
1,2,3-Trichloropropane
Concen: 38.497 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054694.D
Acq: 26 Mar 2019 13:13

Tgt Ion: 75 Resp: 169632
Ion Ratio Lower Upper
75 100
77 0.4 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: 127.464 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

ClientSampled :

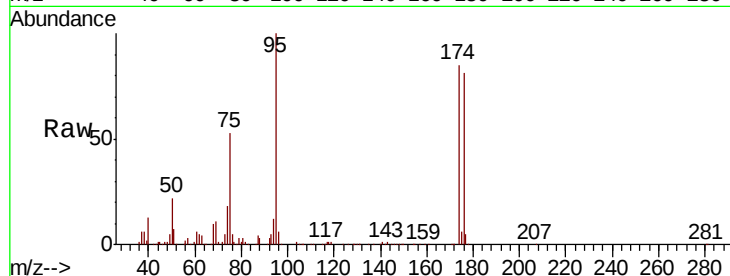
Tot Ion: 75 Resp: 169632

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

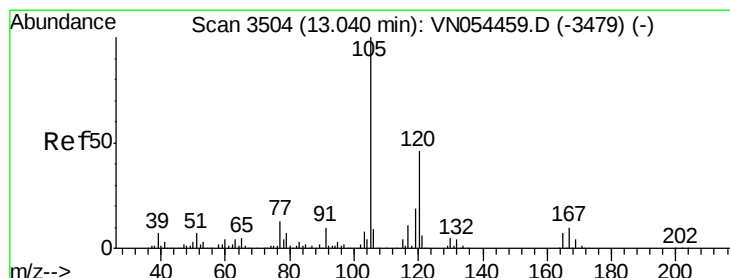
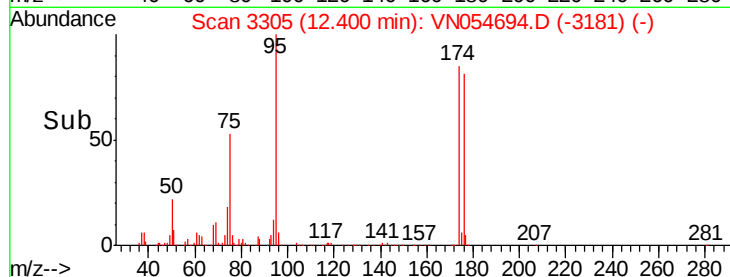
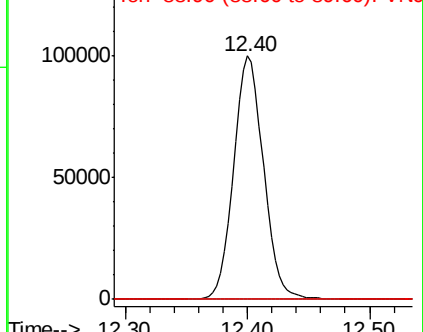
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.286 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054694.D

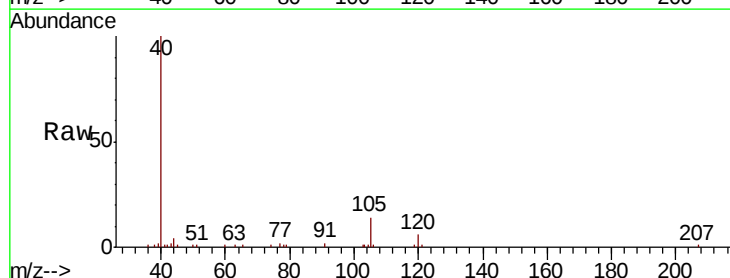
Acq: 26 Mar 2019 13:13

Tgt Ion: 105 Resp: 5150

Ion Ratio Lower Upper

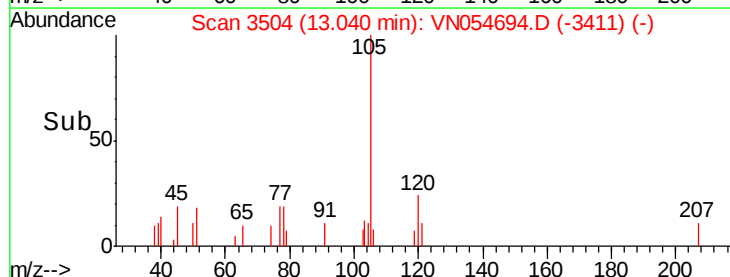
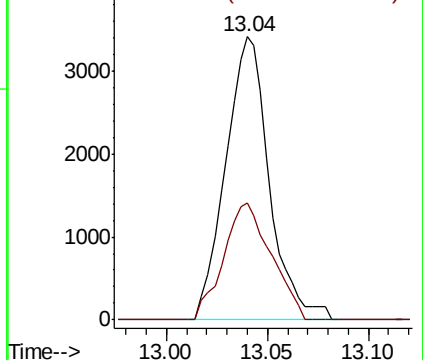
105 100

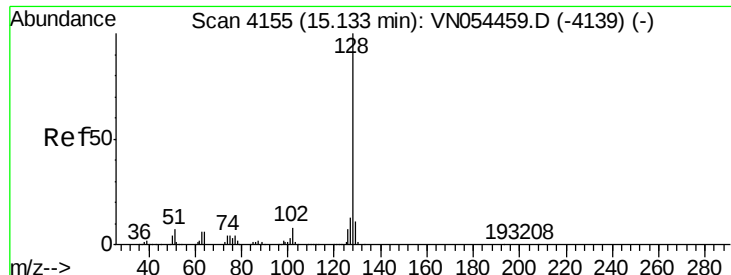
120 45.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3479) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3479) (-)





#95

Naphthalene

Concen: 2.422 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054694.D

Acq: 26 Mar 2019 13:13

Instrument :

MSVOA_N

ClientSampleId :

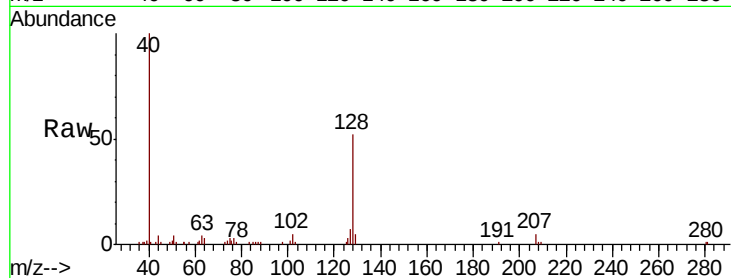
Tot Ion:128 Resp: 23994

Ion Ratio Lower Upper

128 100

127 13.6 10.1 15.1

129 11.3 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

