

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111518\
 Data File : VN052339.D
 Acq On : 15 Nov 2018 13:30
 Operator : MD\SY
 Sample : PB114828ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

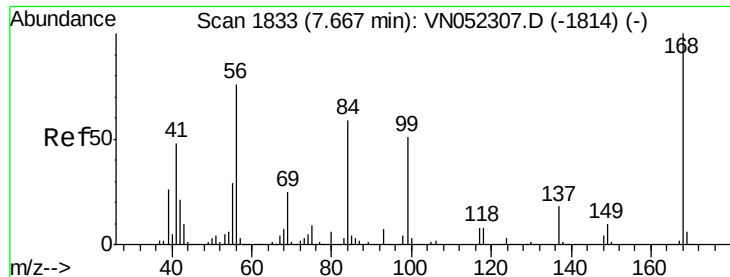
Quant Time: Nov 16 02:51:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	325759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	544386	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	162594	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	225842	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
35) Dibromofluoromethane	7.59	113	177329	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	10.09	98	687592	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.40	95	201485	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	65	0.268	ug/l #	72
13) Acrolein	3.74	56	29	21.843	ug/l #	14
16) Acetone	3.82	43	6510	5.139	ug/l #	87
18) Methyl Acetate	4.33	43	874	0.676	ug/l #	82
20) Methylene Chloride	4.55	84	14116	3.004	ug/l	96
29) Tetrahydrofuran	7.21	42	554	0.473	ug/l #	56
31) Cyclohexane	7.67	56	10135	0.397	ug/l #	41
36) 1,1-Dichloropropene	7.67	75	29118	5.337	ug/l #	46
38) Carbon Tetrachloride	7.66	117	34577	6.898	ug/l #	17
41) Methacrylonitrile	7.19	41	149	3.758	ug/l #	100
43) Isopropyl Acetate	8.17	43	21814	2.855	ug/l	99
48) Methyl methacrylate	9.17	41	5954	1.536	ug/l #	16
51) 4-Methyl-2-Pentanone	10.03	43	7603	1.977	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	43519	7.203	ug/l #	66
56) Ethyl methacrylate	10.54	69	1056	0.238	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7296	1.219	ug/l #	43
59) 2-Hexanone	10.76	43	140295	53.028	ug/l #	55
74) N-amyl acetate	11.88	43	17388	3.734	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	113483	41.133	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9071	0.873	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	113483	133.411	ug/l #	5
95) Naphthalene	15.12	128	99	2.621	ug/l #	69

(#) = 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: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

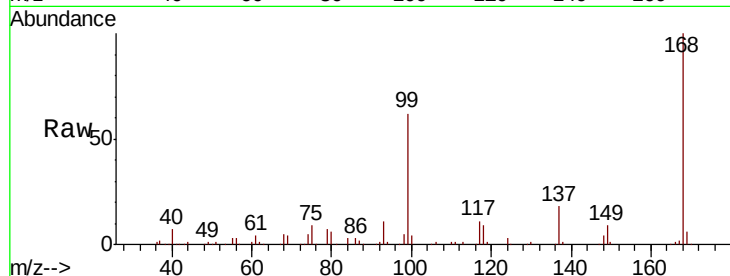
ClientSampled :

Tot Ion:168 Resp: 325759

Ion Ratio Lower Upper

168 100

99 62.3 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

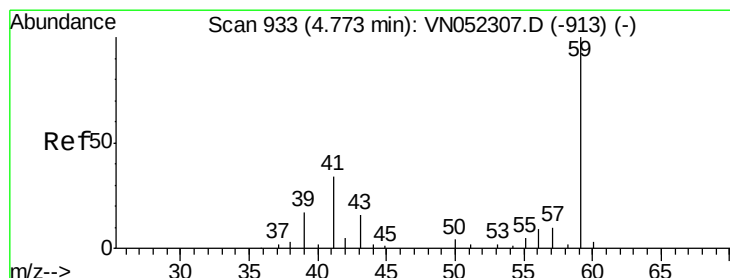
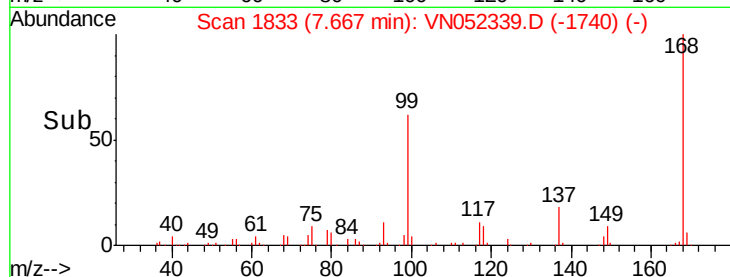
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.268 ug/l

RT: 4.80 min Scan# 940

Delta R.T. 0.02 min

Lab File: VN052339.D

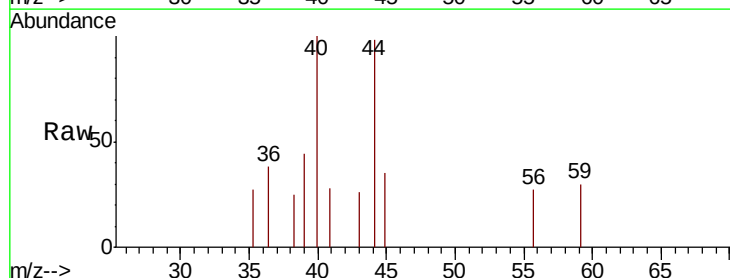
Acq: 15 Nov 2018 13:30

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

200

150

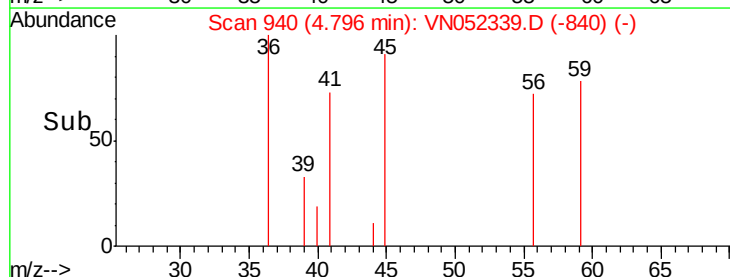
100

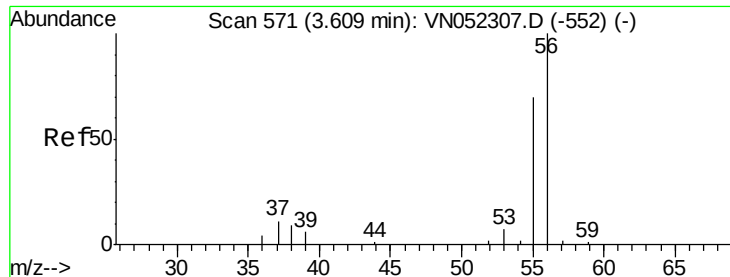
50

0

Time-->

4.79 4.80 4.81





#13

Acrolein

Concen: 21.843 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.14 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

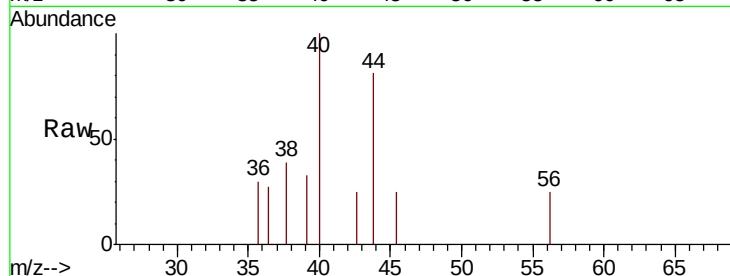
ClientSampled :

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.74

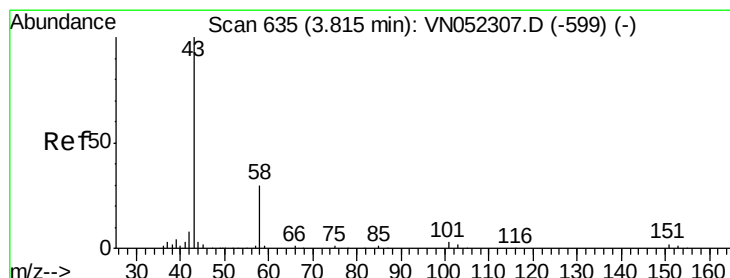
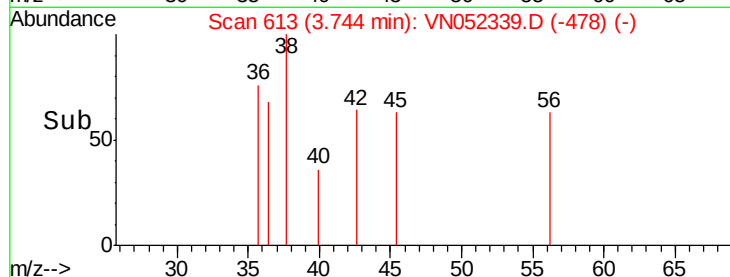
150

100

50

0

Time-->



#16

Acetone

Concen: 5.139 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052339.D

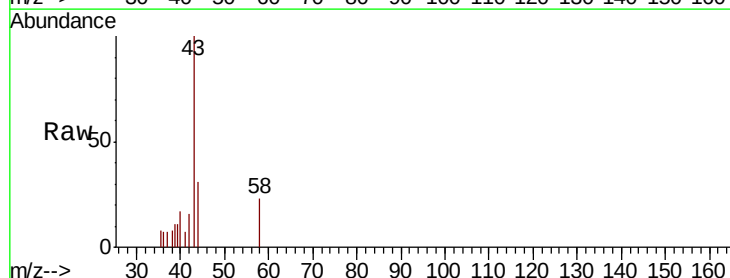
Acq: 15 Nov 2018 13:30

Tgt Ion: 43 Resp: 6510

Ion Ratio Lower Upper

43 100

58 23.1 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

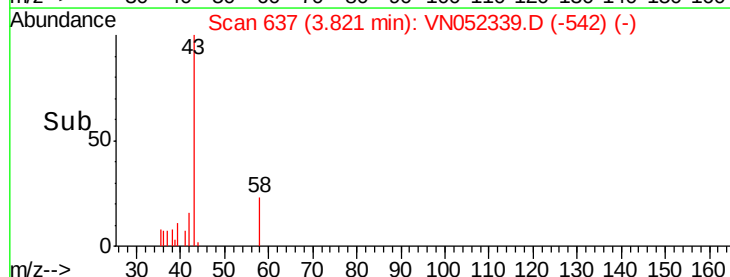
1500

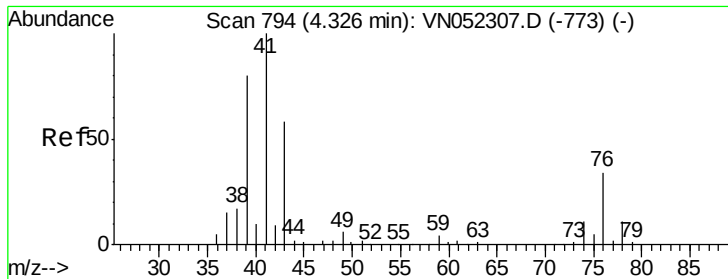
1000

500

0

Time-->





#18

Methyl Acetate

Concen: 0.676 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

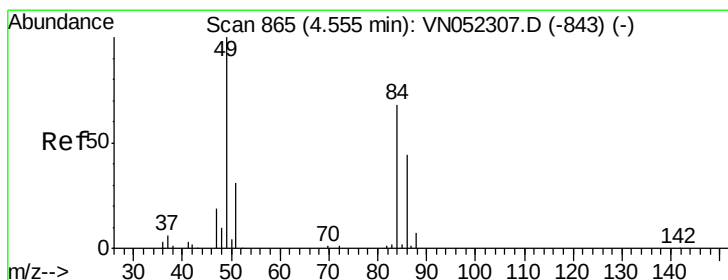
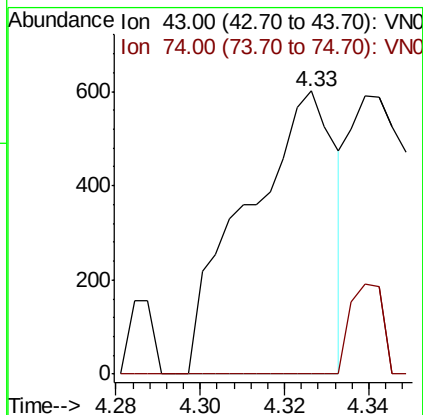
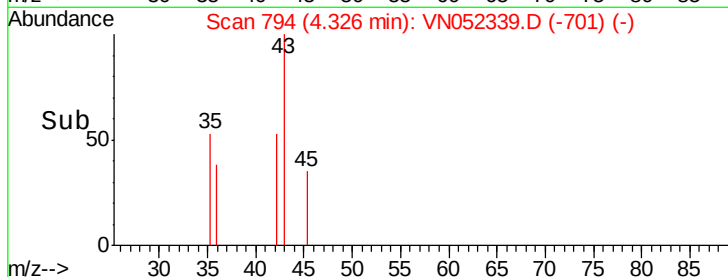
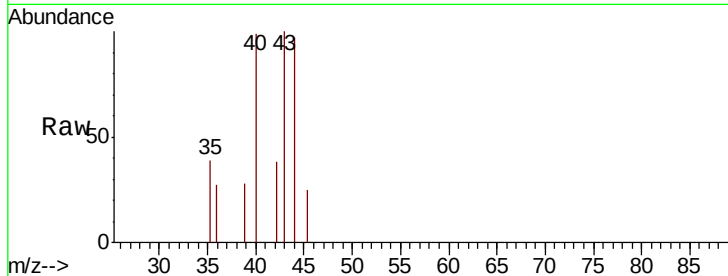
ClientSampleId :

Tot Ion: 43 Resp: 874

Ion Ratio Lower Upper

43 100

74 11.8 15.9 23.9#



#20

Methylene Chloride

Concen: 3.004 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Tgt Ion: 84 Resp: 14116

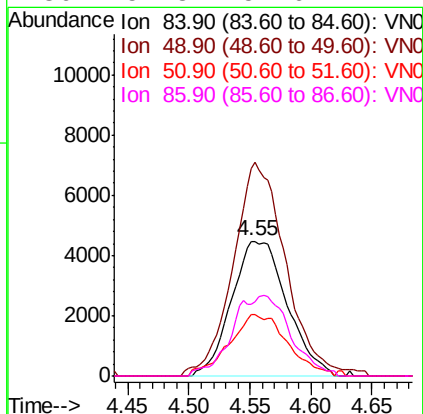
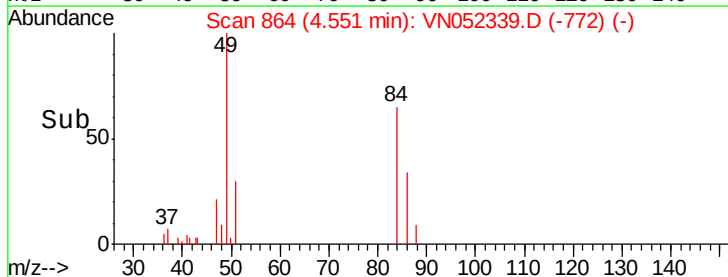
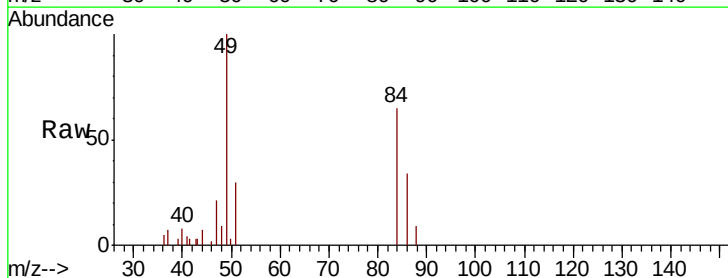
Ion Ratio Lower Upper

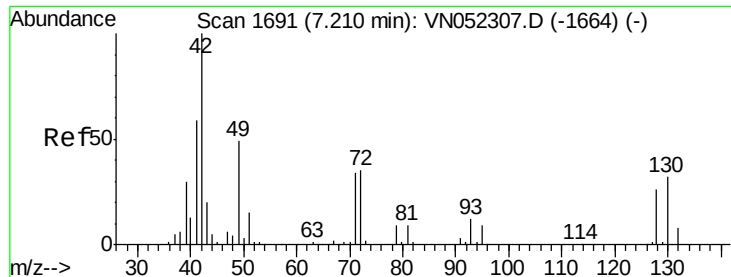
84 100

49 148.5 118.2 177.2

51 45.8 36.1 54.1

86 52.8 51.6 77.4

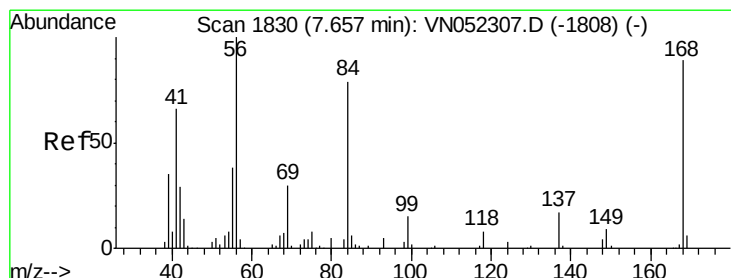
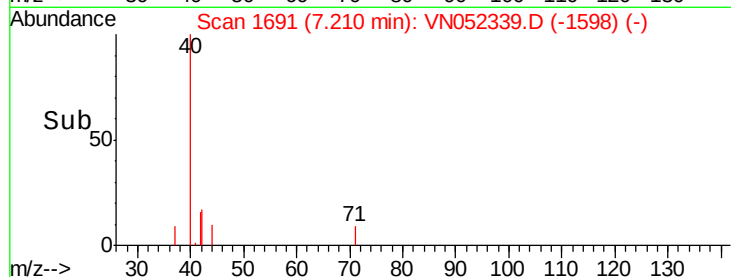
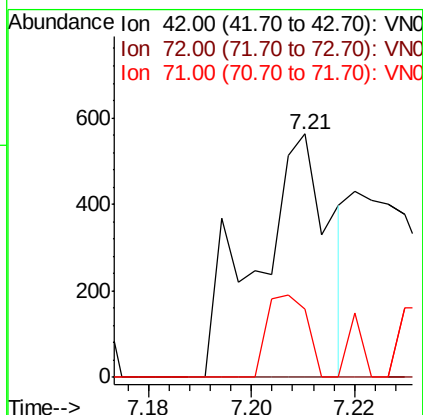
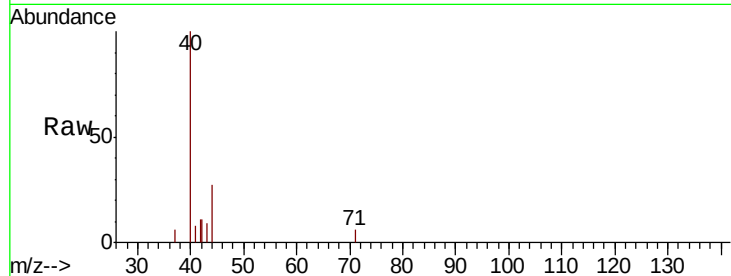




#29
Tetrahydrofuran
Concen: 0.473 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

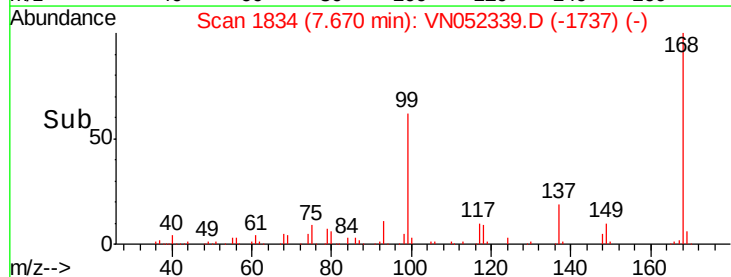
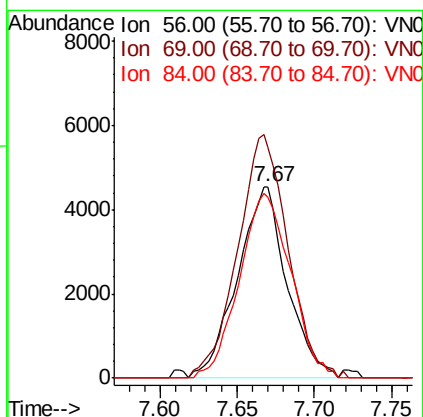
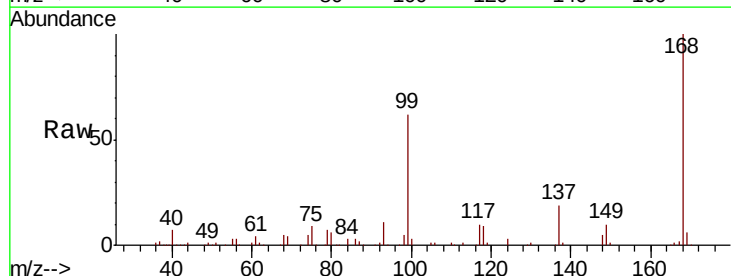
Instrument :
MSVOA_N
ClientSampleId :

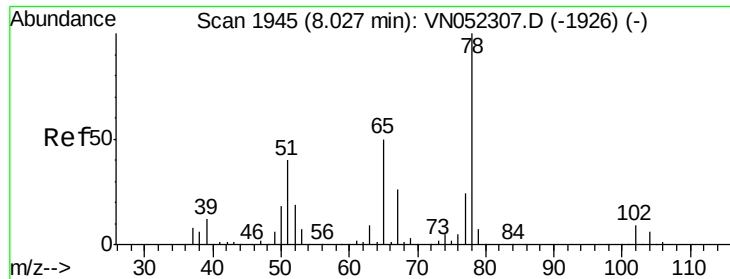
Tot Ion: 42 Resp: 554
Ion Ratio Lower Upper
42 100
72 0.0 28.6 42.8#
71 18.4 26.7 40.1#



#31
Cyclohexane
Concen: 0.397 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

Tgt Ion: 56 Resp: 10135
Ion Ratio Lower Upper
56 100
69 120.5 23.8 35.8#
84 94.4 63.0 94.6

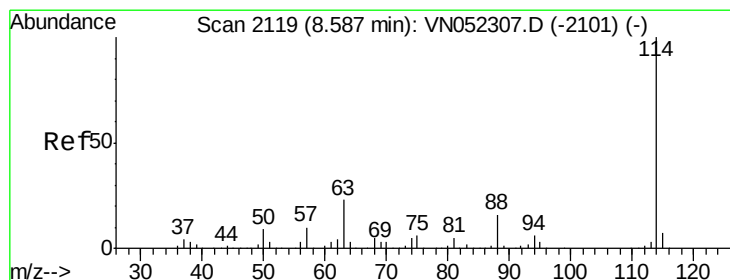
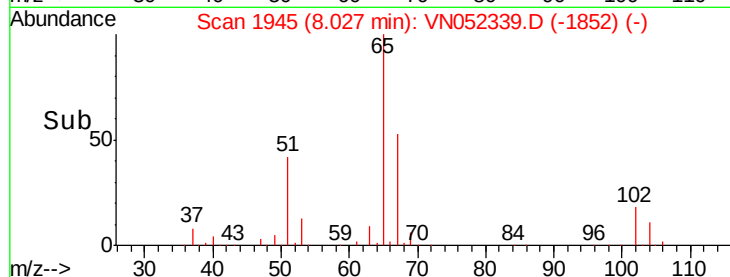
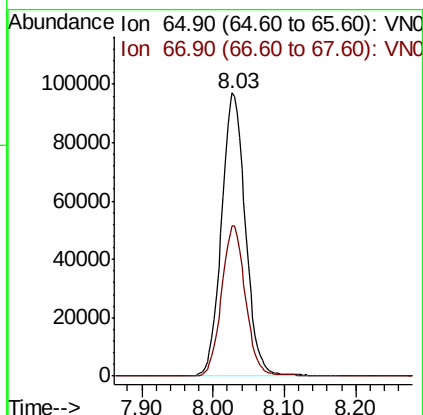
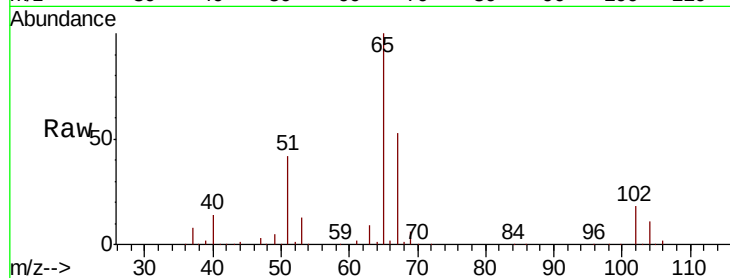




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

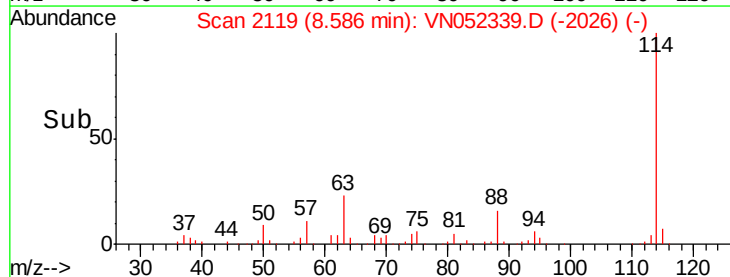
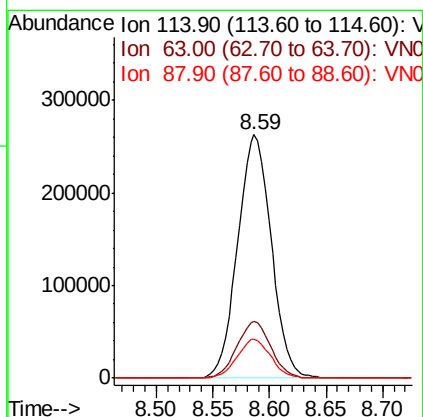
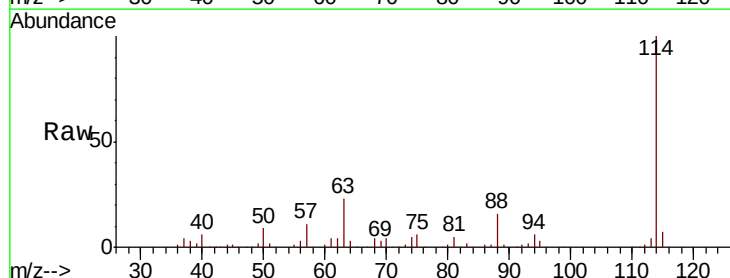
Instrument :
 MSVOA_N
 ClientSampled :

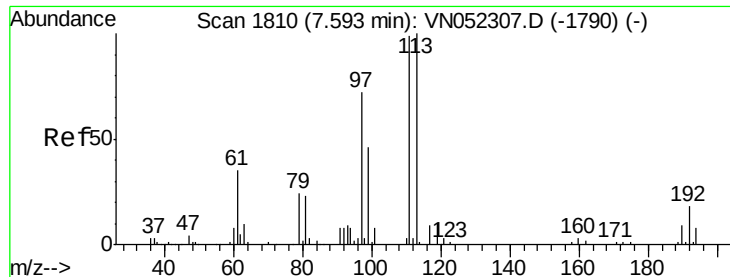
Tot Ion: 65 Resp: 225842
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

Tgt Ion: 114 Resp: 544386
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.4
 88 16.1 0.0 31.2

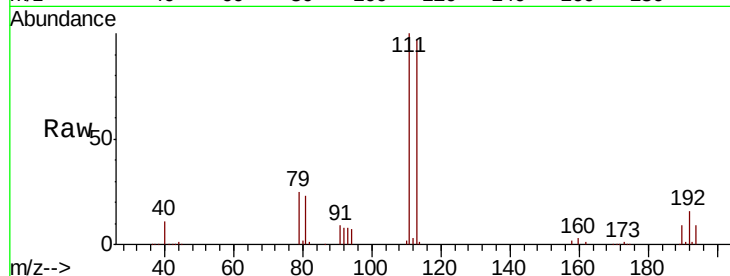




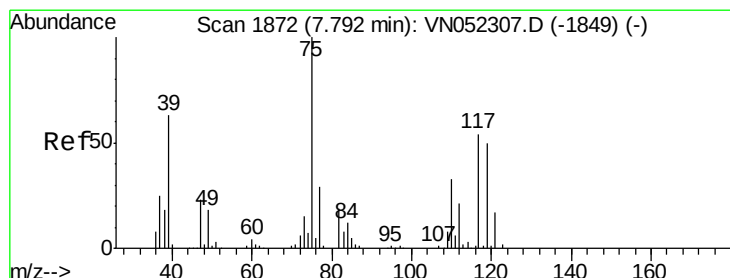
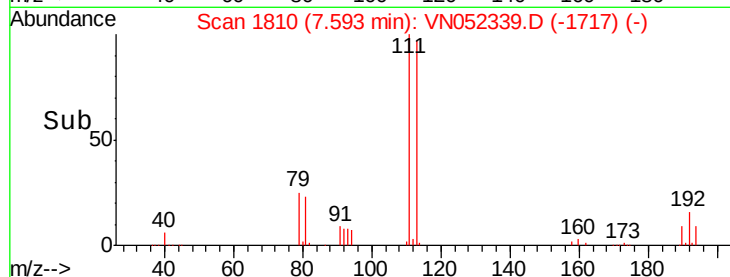
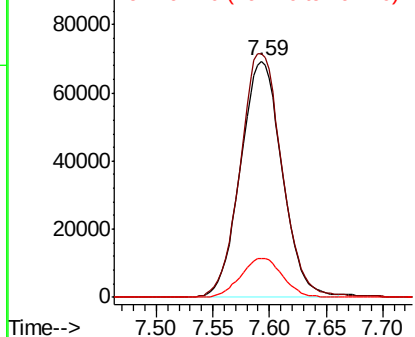
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 177329
 Ion Ratio Lower Upper
 113 100
 111 104.2 81.0 121.6
 192 16.8 13.8 20.6

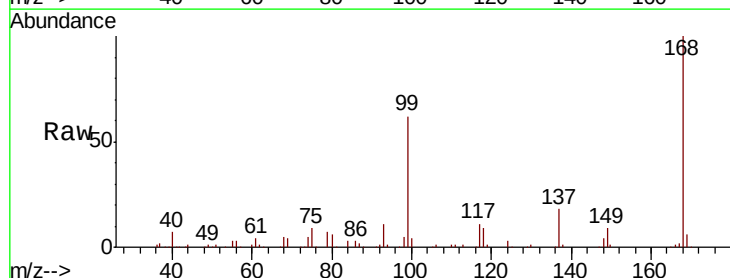


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

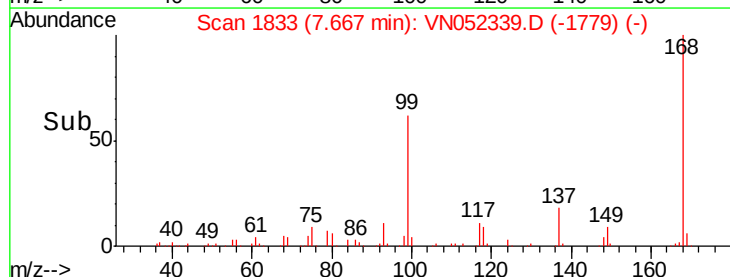
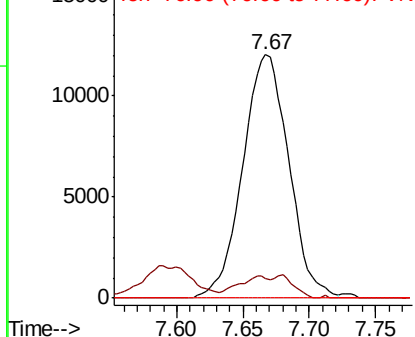


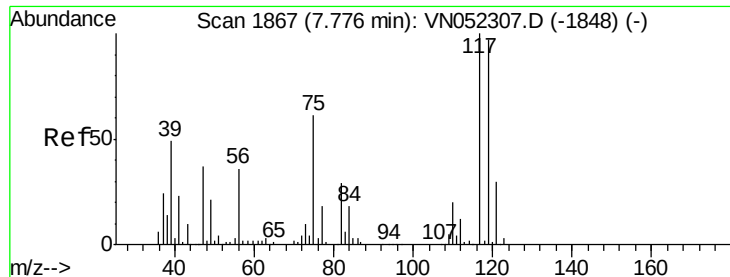
#36
 1,1-Dichloropropene
 Concen: 5.337 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

Tgt Ion: 75 Resp: 29118
 Ion Ratio Lower Upper
 75 100
 110 3.7 16.5 49.5#
 77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

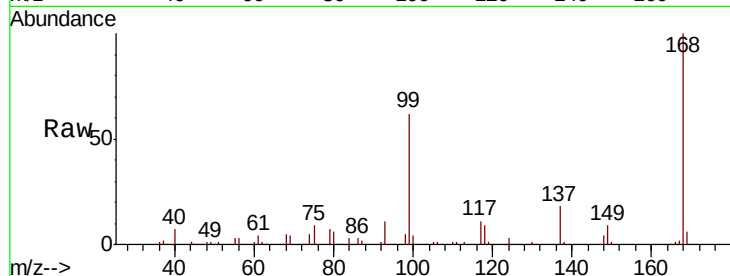




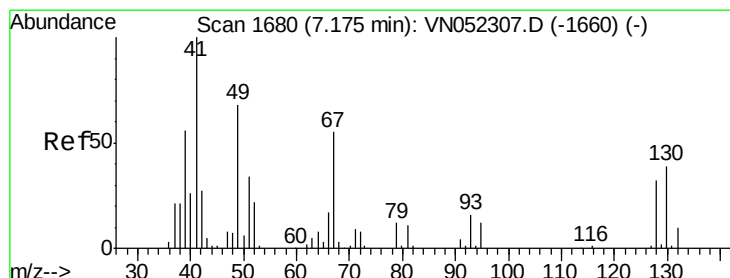
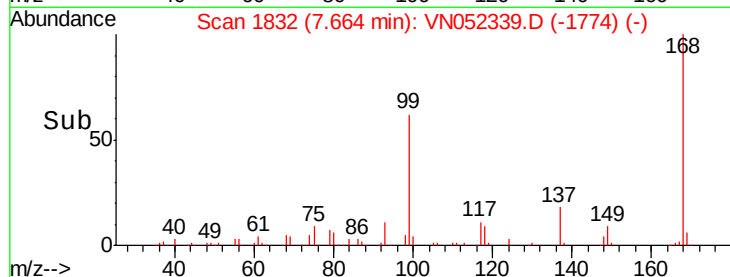
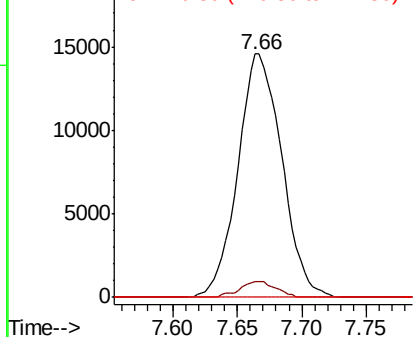
#38
Carbon Tetrachloride
Concen: 6.898 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 34577
Ion Ratio Lower Upper
117 100
119 6.2 77.4 116.0#
121 0.0 24.0 36.0#

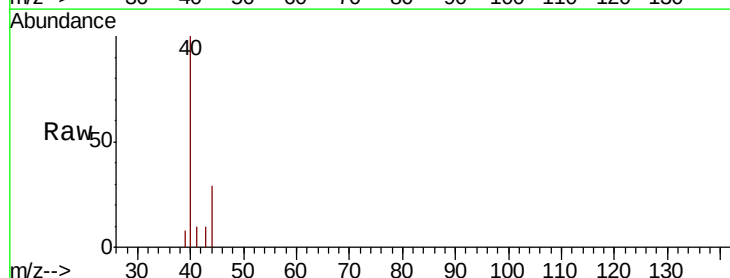


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

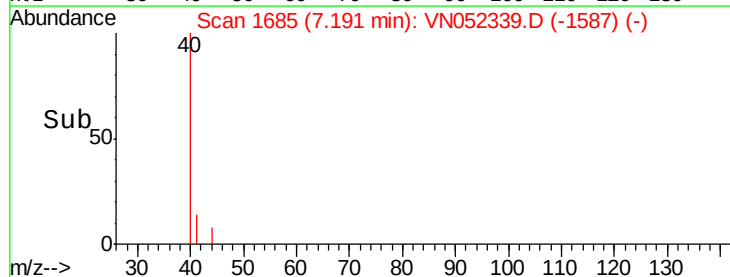
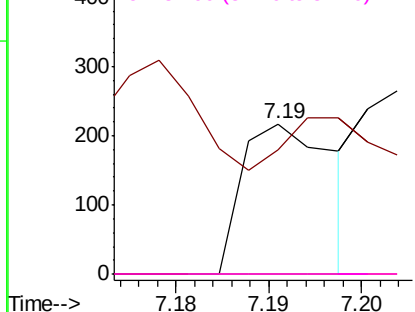


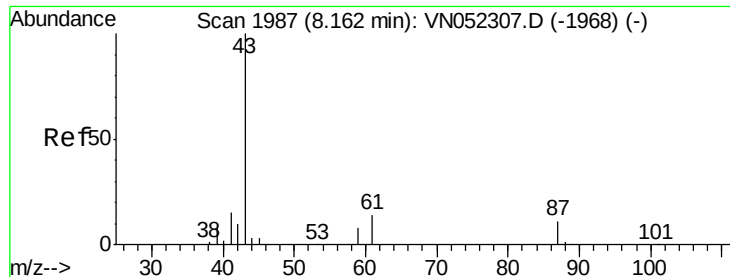
#41
Methacrylonitrile
Concen: 3.758 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.02 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

Tgt Ion: 41 Resp: 149
Ion Ratio Lower Upper
41 100
39 128.2 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.855 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

ClientSampled :

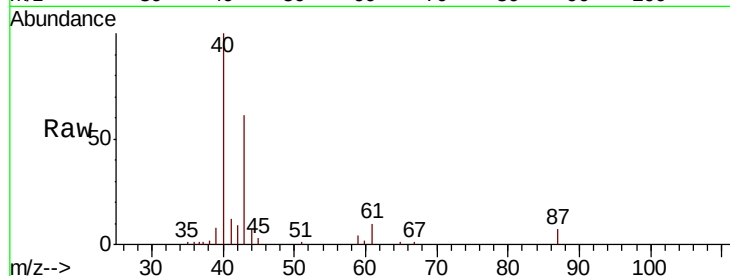
Tot Ion: 43 Resp: 21814

Ion Ratio Lower Upper

43 100

61 15.1 12.0 18.0

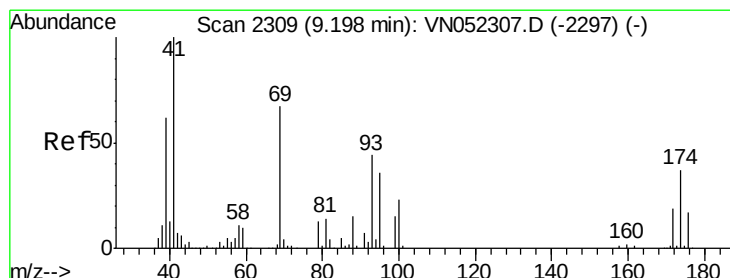
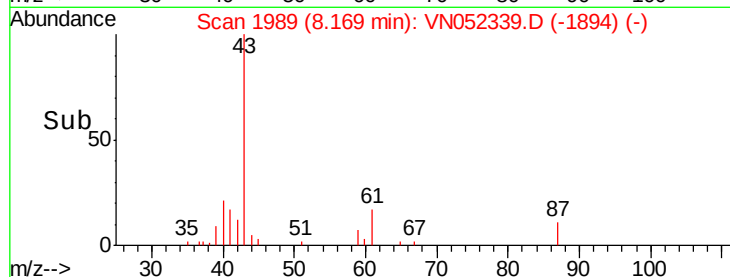
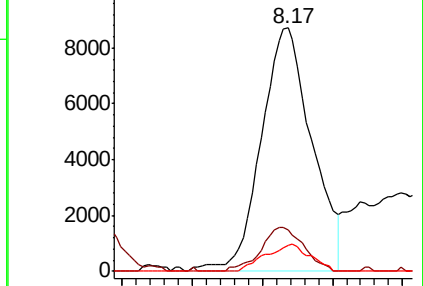
87 9.7 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)



#48

Methyl methacrylate

Concen: 1.536 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

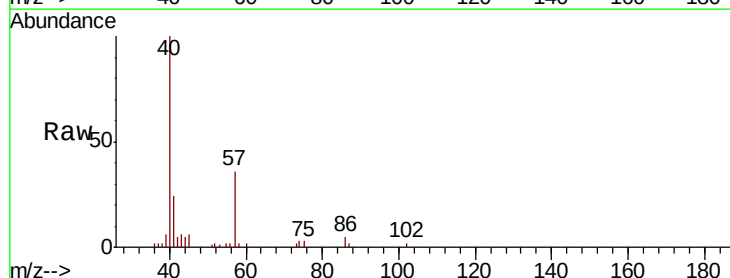
Tgt Ion: 41 Resp: 5954

Ion Ratio Lower Upper

41 100

69 0.0 57.1 85.7#

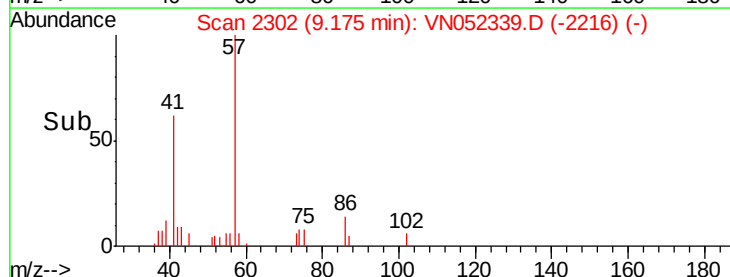
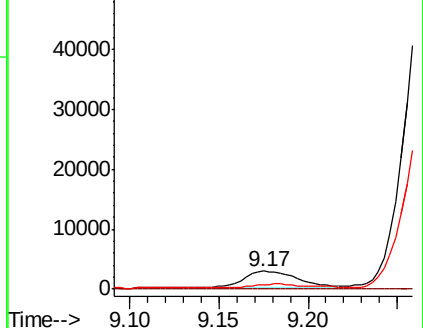
39 0.0 52.5 78.7#

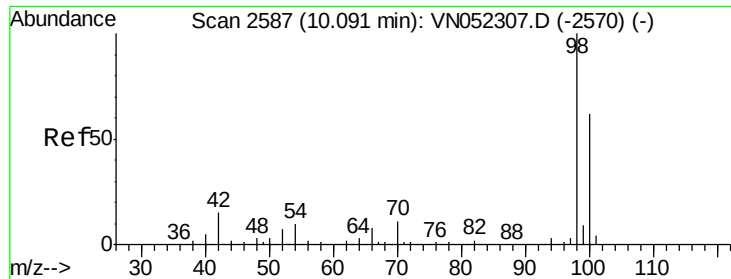


Abundance Ion 41.00 (40.70 to 41.70): VN052307.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN052307.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN052307.D (-2297) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

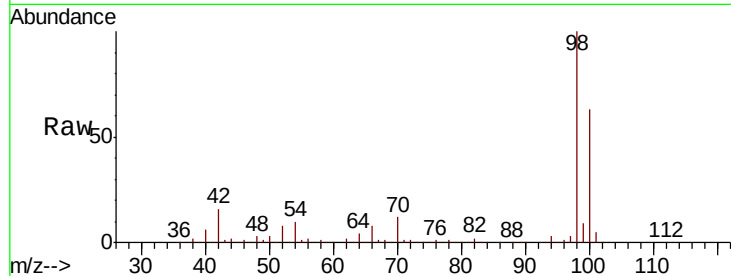
ClientSampled :

Tot Ion: 98 Resp: 687592

Ion Ratio Lower Upper

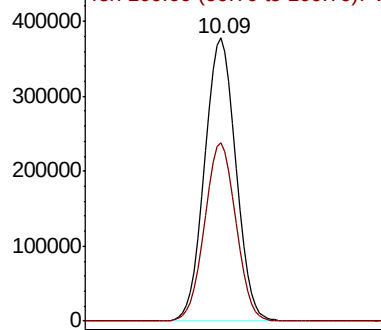
98 100

100 63.0 49.5 74.3

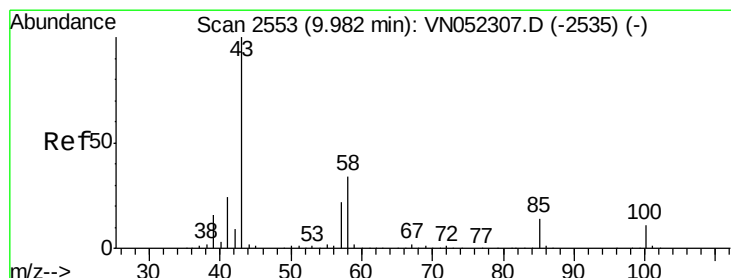
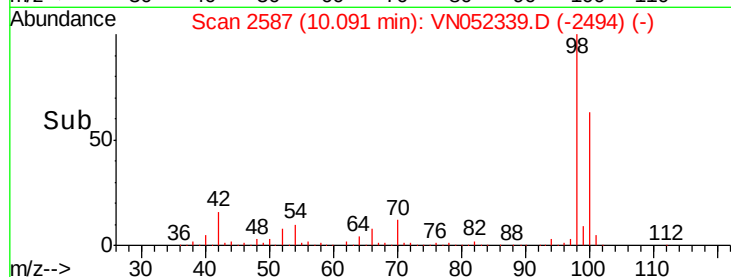


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.977 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052339.D

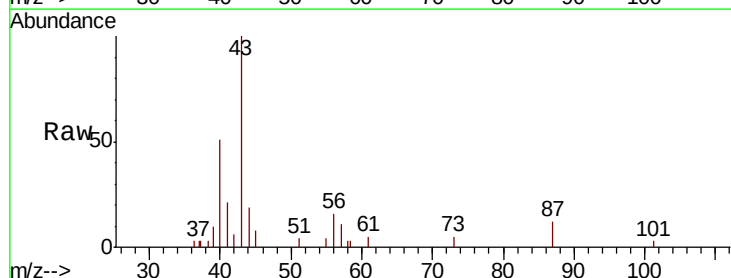
Acq: 15 Nov 2018 13:30

Tgt Ion: 43 Resp: 7603

Ion Ratio Lower Upper

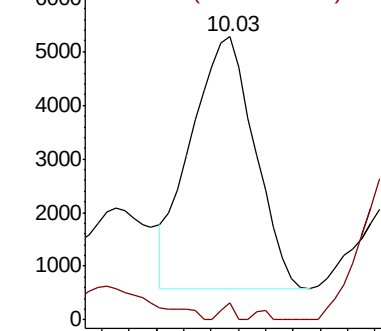
43 100

58 0.0 27.0 40.6#

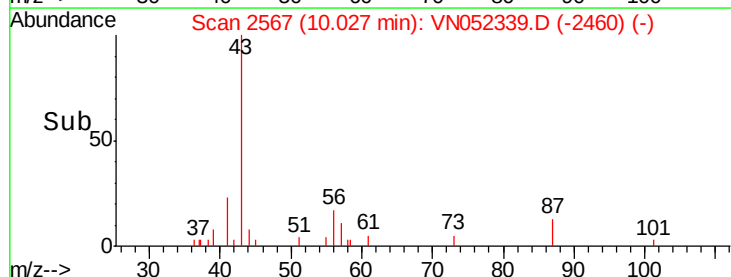


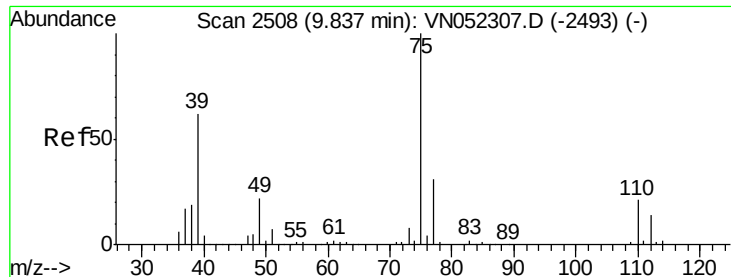
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.203 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

ClientSampleId :

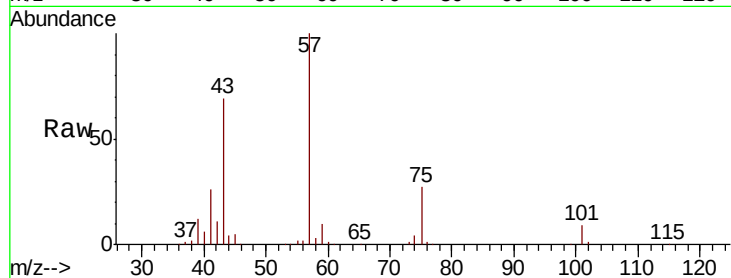
Tot Ion: 75 Resp: 43519

Ion Ratio Lower Upper

75 100

77 1.2 24.6 36.8#

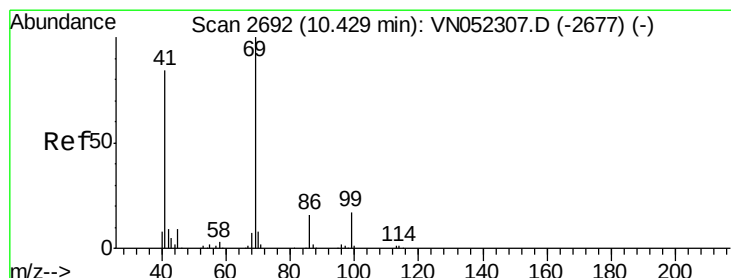
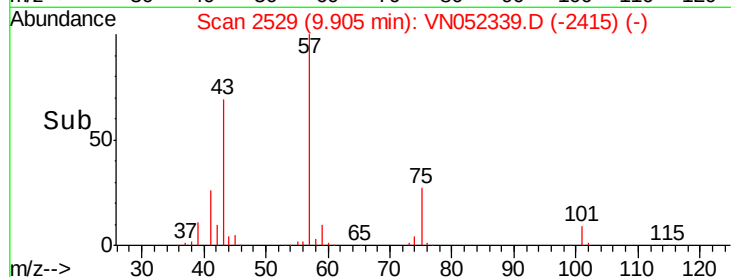
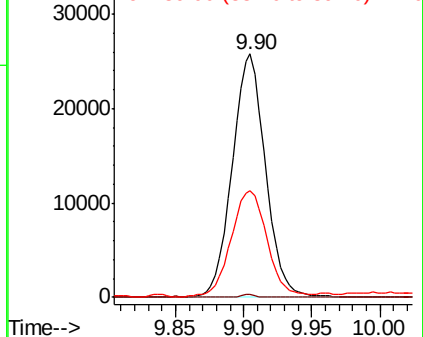
39 43.3 49.9 74.9#



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



#56

Ethyl methacrylate

Concen: 0.238 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

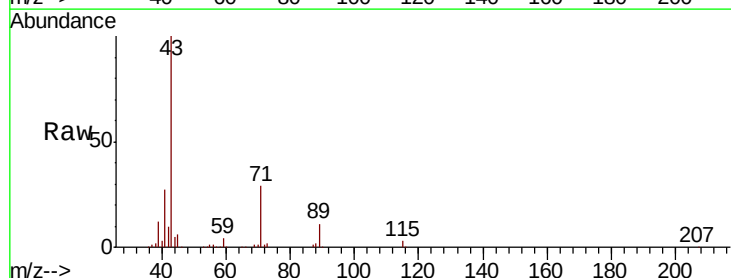
Tgt Ion: 69 Resp: 1056

Ion Ratio Lower Upper

69 100

41 4793.0 64.8 97.2#

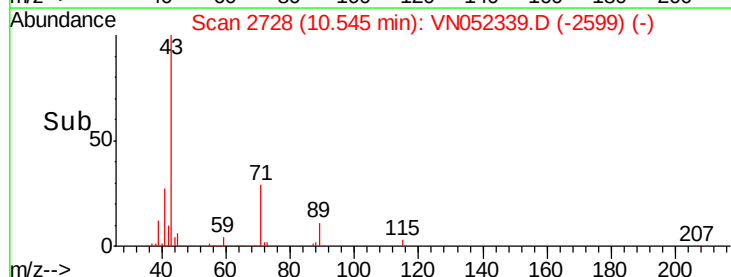
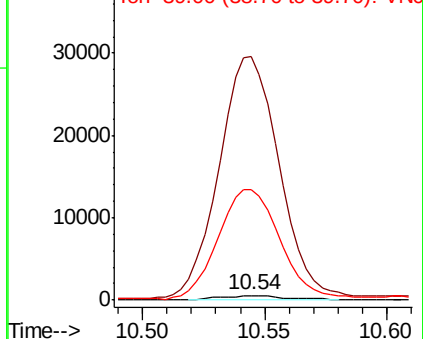
39 2299.7 41.0 61.6#

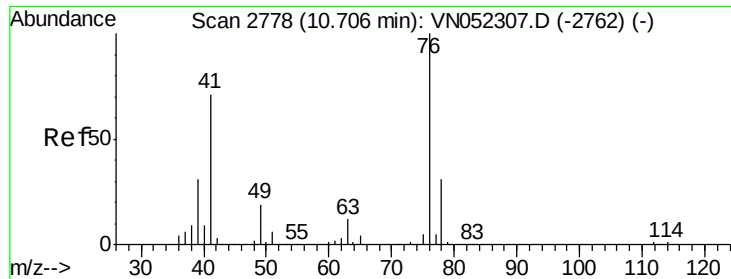


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

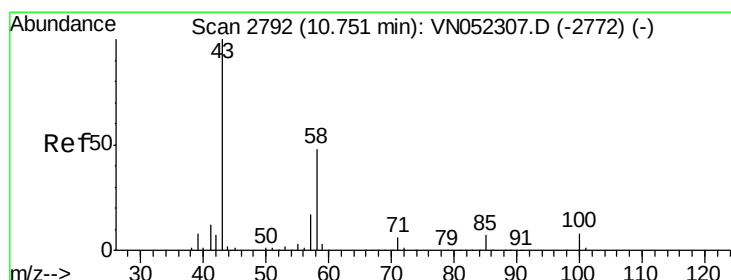
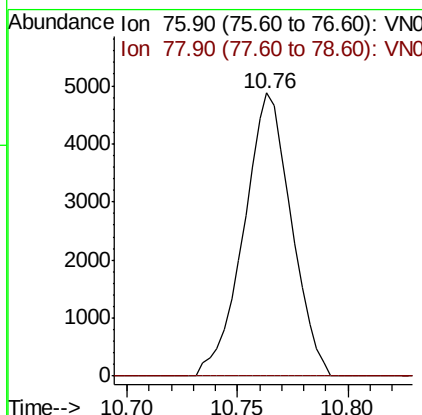
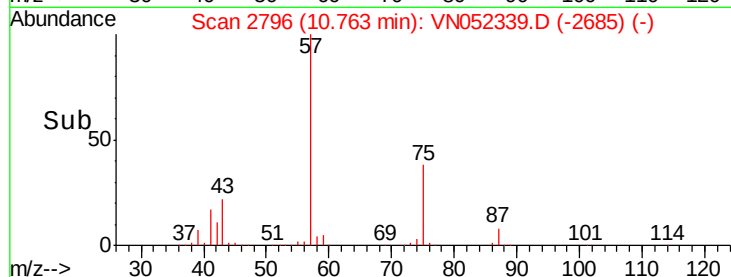
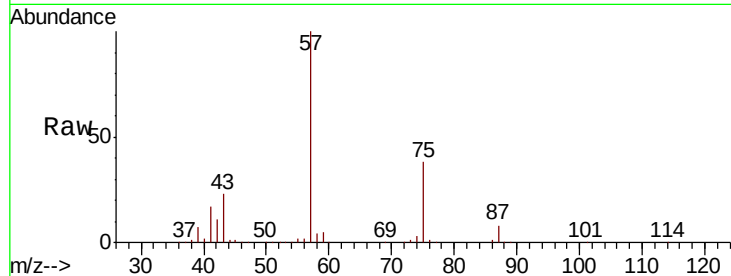




#57
 1,3-Dichloropropane
 Concen: 1.219 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

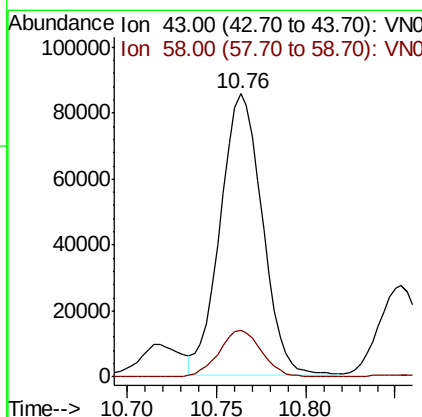
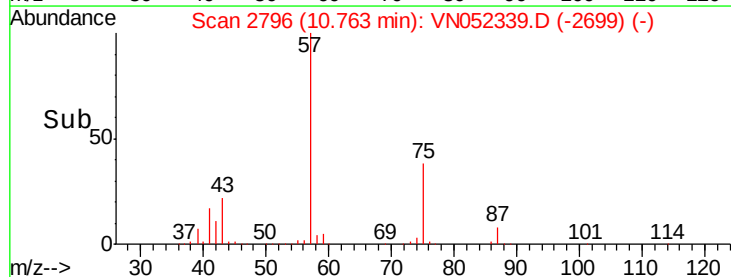
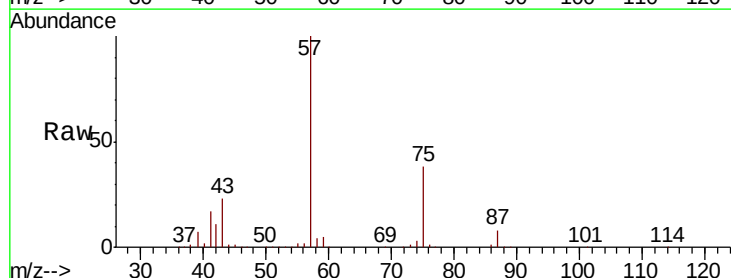
Instrument :
 MSVOA_N
 ClientSampled :

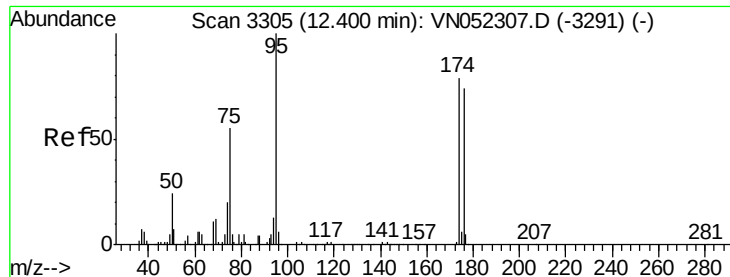
Tot Ion: 76 Resp: 7296
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 53.028 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

Tgt Ion: 43 Resp: 140295
 Ion Ratio Lower Upper
 43 100
 58 16.8 23.5 70.6#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

ClientSampleId :

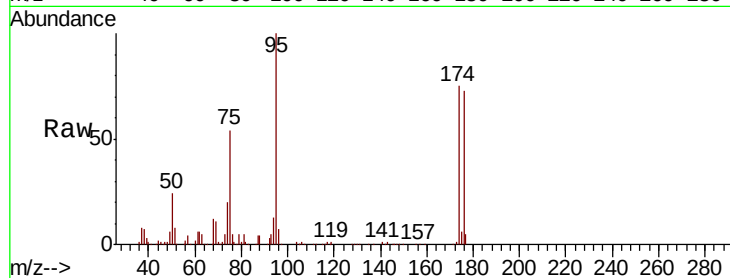
Tot Ion: 95 Resp: 201485

Ion Ratio Lower Upper

95 100

174 76.5 0.0 156.0

176 74.2 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052339.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052339.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052339.D (-2903) (-)

12.40

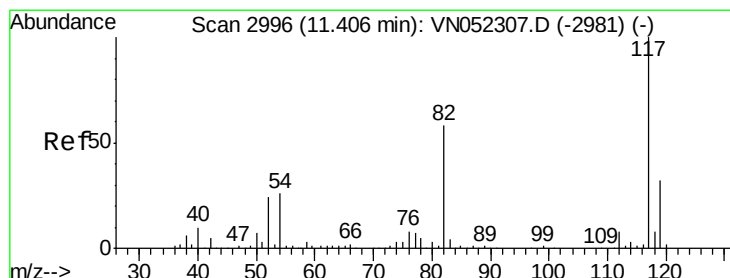
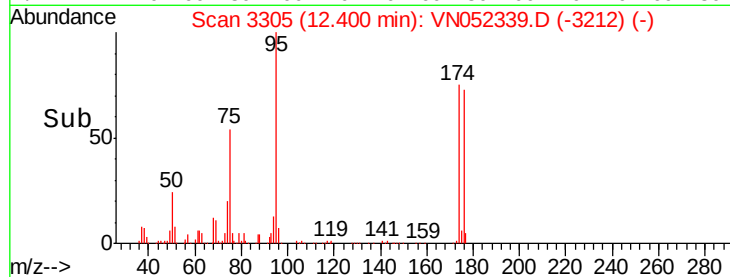
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

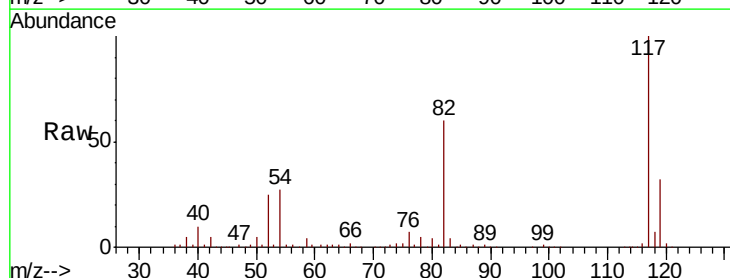
Tgt Ion: 117 Resp: 467100

Ion Ratio Lower Upper

117 100

82 60.0 46.5 69.7

119 32.2 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN052339.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052339.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052339.D (-2903) (-)

11.41

300000

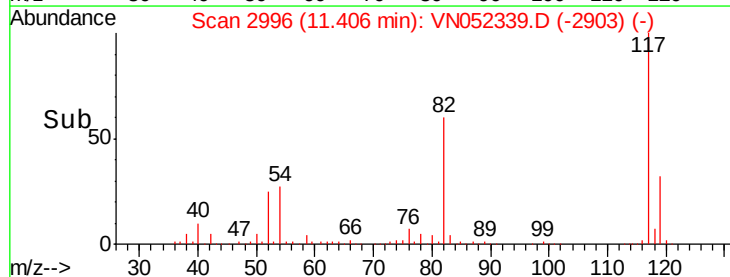
200000

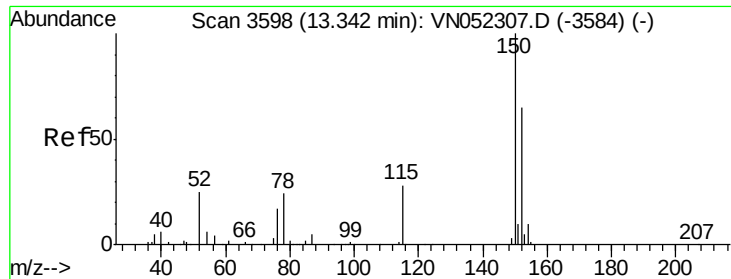
100000

0

11.35 11.40 11.45

Time-->



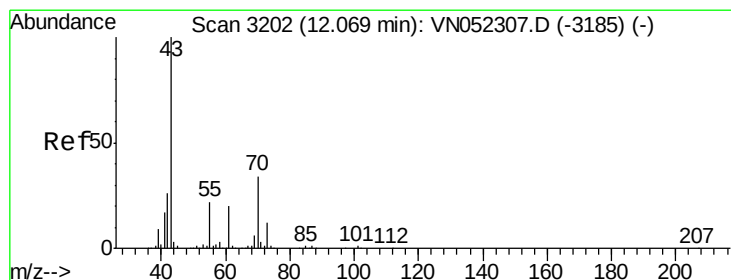
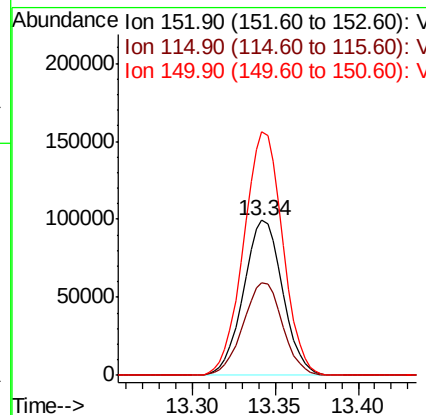
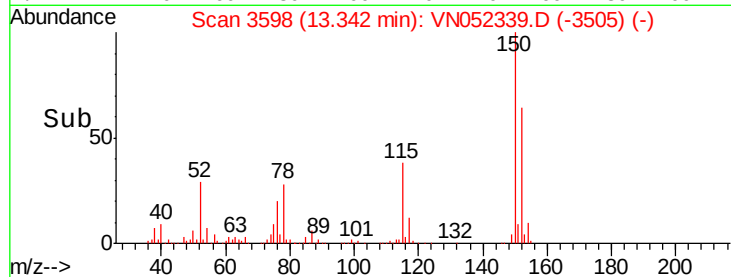
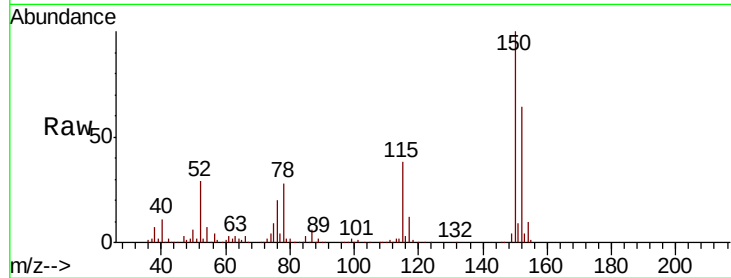


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

Instrument :
MSVOA_N
ClientSampled :

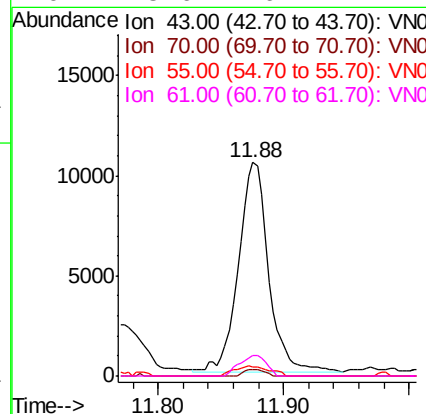
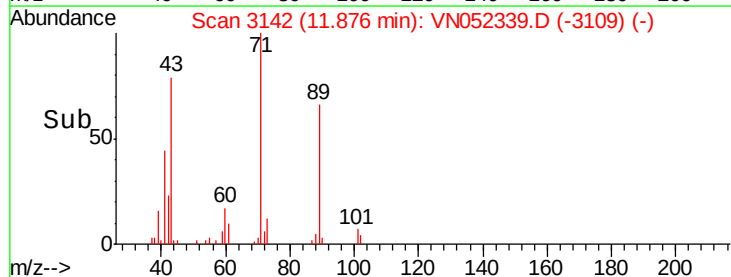
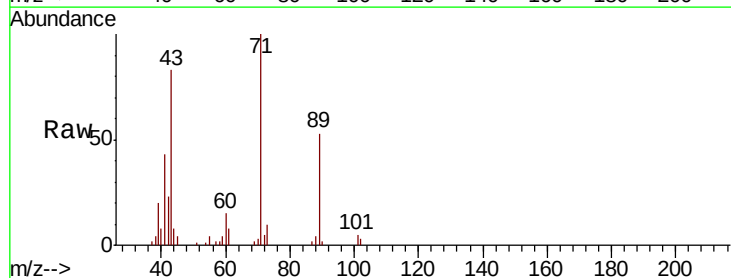
Tot Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.3	91.0
150	157.0	0.0	348.2

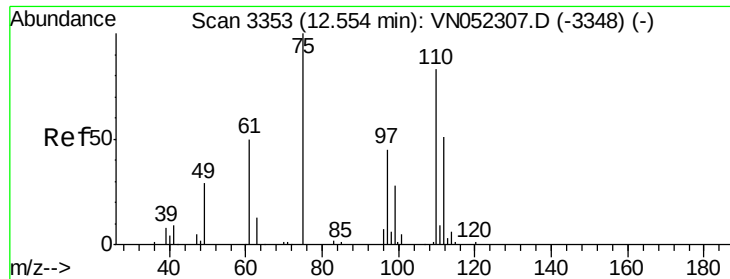


#74

N-ethyl acetate
Concen: 3.734 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN052339.D
Acq: 15 Nov 2018 13:30

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.2	27.1	40.7#
55	5.6	17.4	26.0#
61	8.6	16.1	24.1#

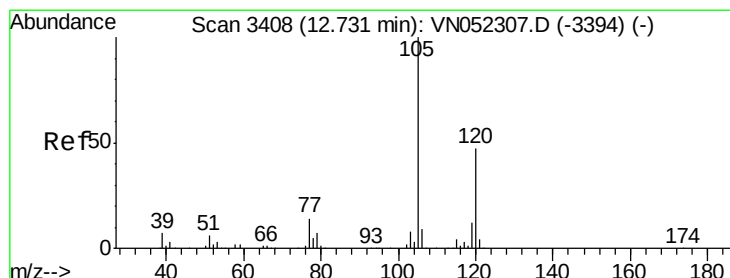
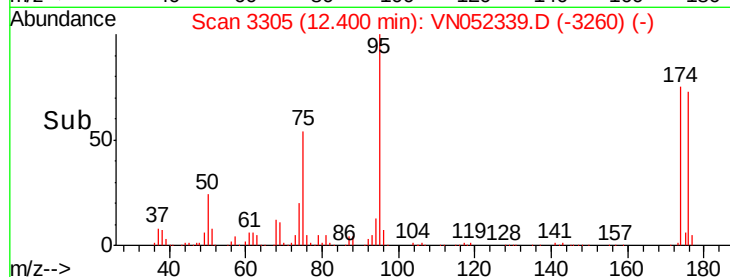
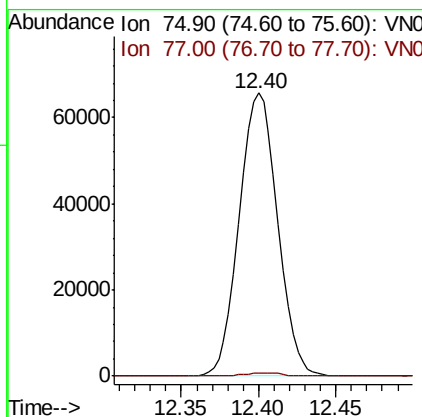
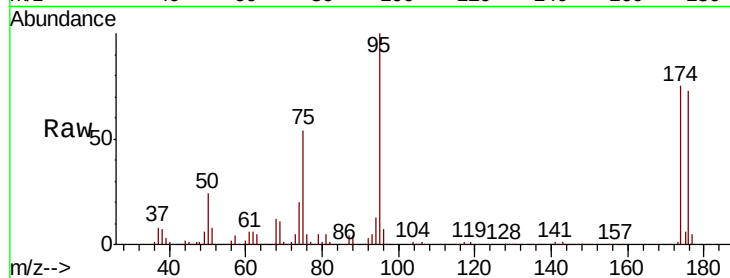




#76
 1,2,3-Trichloropropane
 Concen: 41.133 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

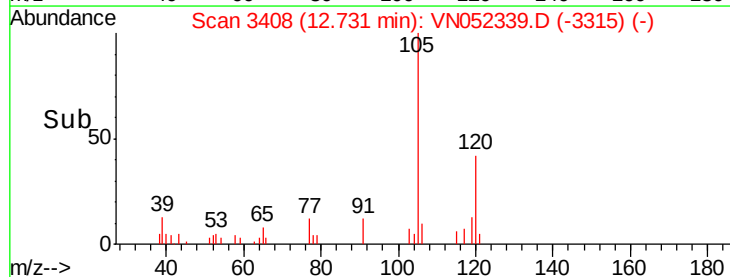
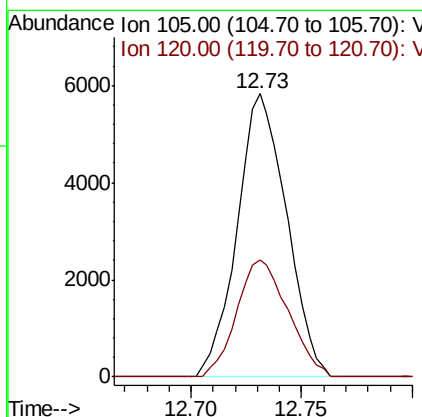
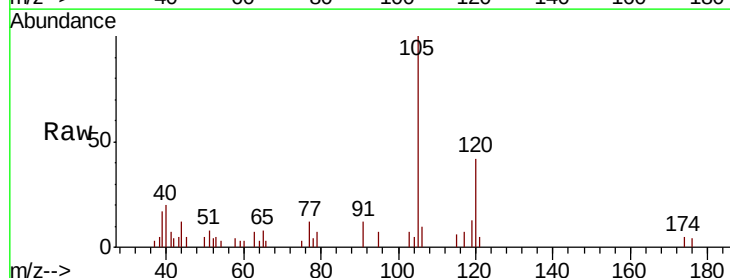
Instrument :
 MSVOA_N
 ClientSampled :

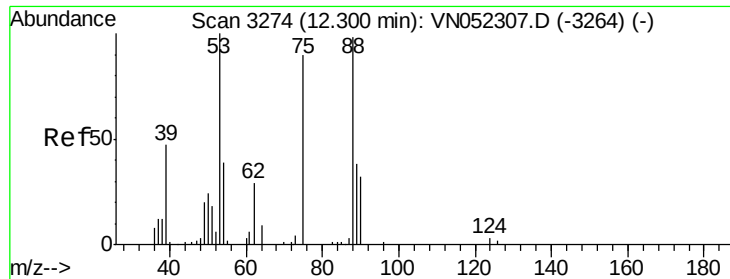
Tot Ion: 75 Resp: 113483
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.873 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052339.D
 Acq: 15 Nov 2018 13:30

Tgt Ion: 105 Resp: 9071
 Ion Ratio Lower Upper
 105 100
 120 42.8 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 133.411 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

Instrument :

MSVOA_N

ClientSampleId :

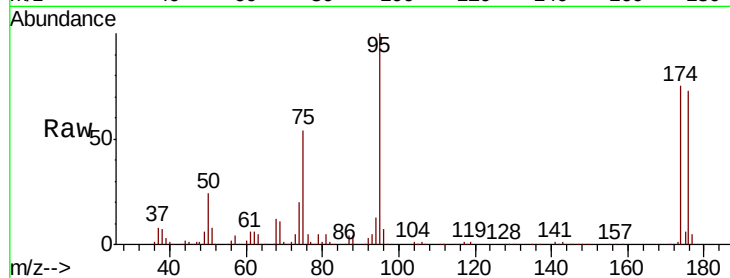
Tot Ion: 75 Resp: 113483

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

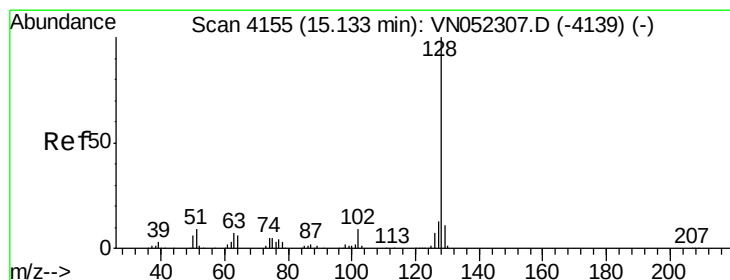
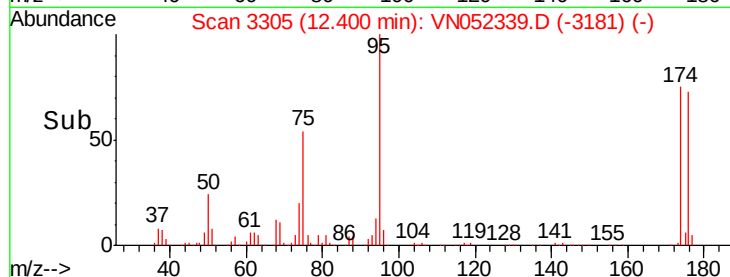
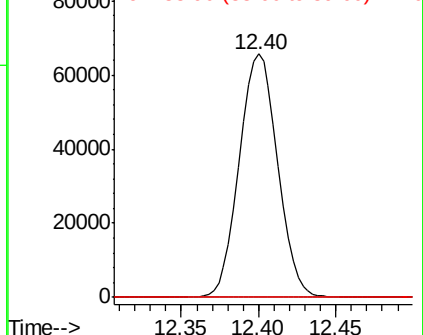
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#95

Naphthalene

Concen: 2.621 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

Lab File: VN052339.D

Acq: 15 Nov 2018 13:30

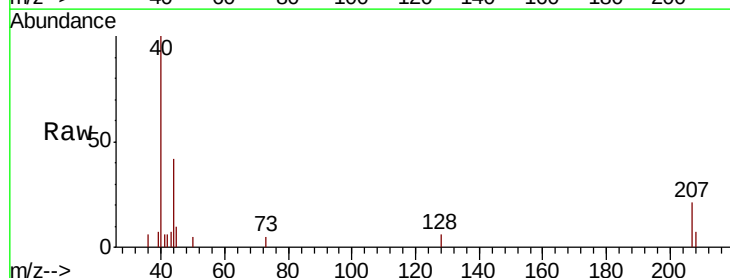
Tgt Ion: 128 Resp: 99

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

