

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052088.D
 Acq On : 31 Oct 2018 21:40
 Operator : MD\SY
 Sample : J5728-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:45:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	286557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	536565	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	512999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208386	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	250656	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	
35) Dibromofluoromethane	7.59	113	205743	61.29	ug/l	0.00
Spiked Amount			Recovery	=	122.58%	
50) Toluene-d8	10.09	98	812095	60.53	ug/l	0.00
Spiked Amount			Recovery	=	121.06%	
62) 4-Bromofluorobenzene	12.40	95	275890	56.02	ug/l	0.00
Spiked Amount			Recovery	=	112.04%	

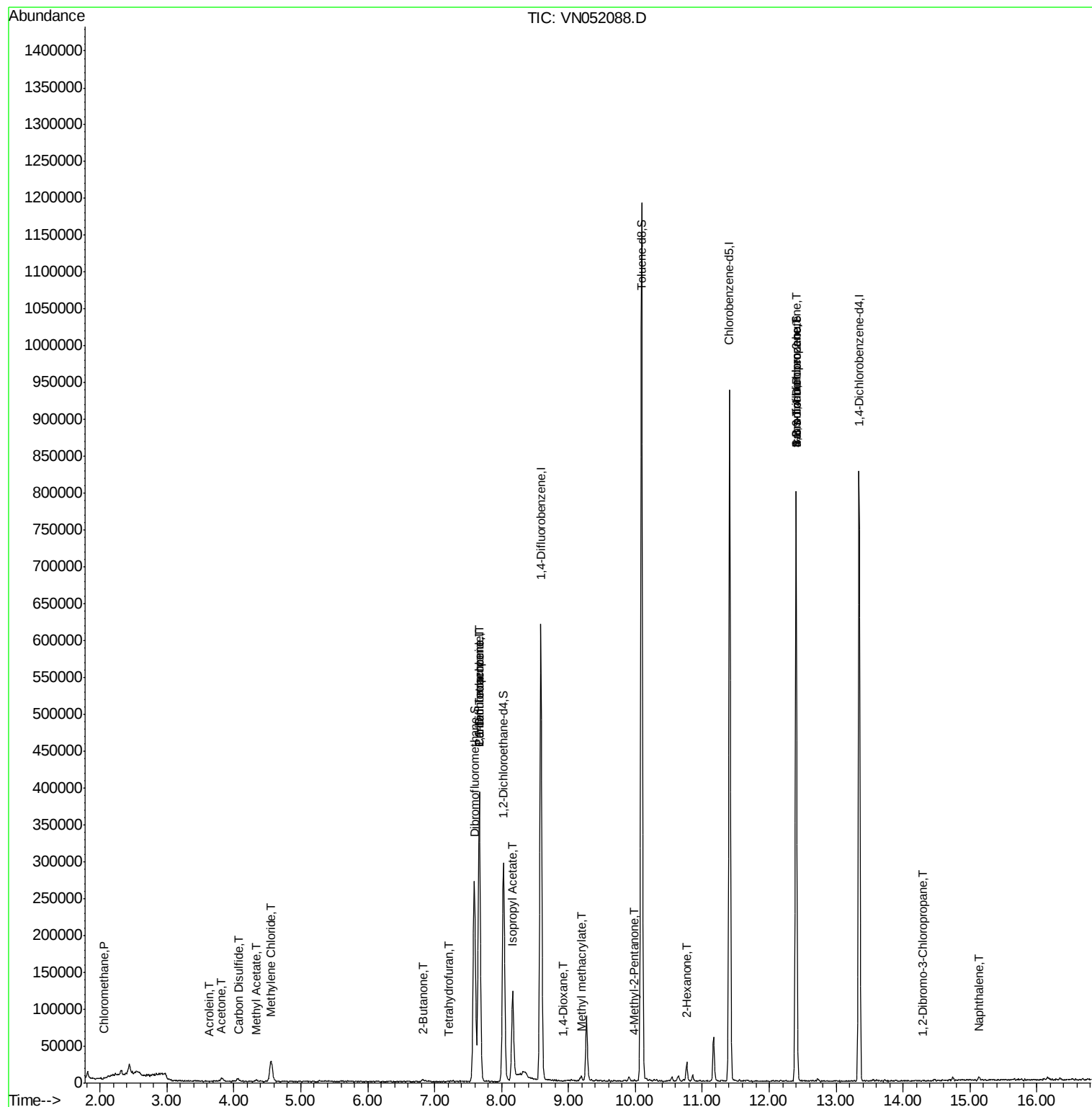
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	929	0.212	ug/l	92
13) Acrolein	3.63	56	29	24.151	ug/l #	1
16) Acetone	3.82	43	4427	4.510	ug/l	95
17) Carbon Disulfide	4.06	76	5115	0.540	ug/l #	64
18) Methyl Acetate	4.33	43	3457	1.106	ug/l #	79
20) Methylene Chloride	4.55	84	19020	5.085	ug/l	88
25) 2-Butanone	6.83	43	1568	1.018	ug/l	94
29) Tetrahydrofuran	7.22	42	695	0.678	ug/l #	44
31) Cyclohexane	7.66	56	7892	Below Cal	#	21
36) 1,1-Dichloropropene	7.67	75	25578	4.688	ug/l #	52
38) Carbon Tetrachloride	7.67	117	31225	6.638	ug/l #	16
43) Isopropyl Acetate	8.17	43	148372	22.844	ug/l	98
48) Methyl methacrylate	9.18	41	4290	1.303	ug/l #	23
49) 1,4-Dioxane	8.91	88	64	27.321	ug/l #	55
51) 4-Methyl-2-Pentanone	9.98	43	717	0.203	ug/l #	55
59) 2-Hexanone	10.75	43	3370	1.340	ug/l	74
71) Bromoform	12.40	173	1520	2.845	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	148181	38.846	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	148181	128.935	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.28	75	29	0.965	ug/l #	11
95) Naphthalene	15.14	128	3666	0.614	ug/l #	90

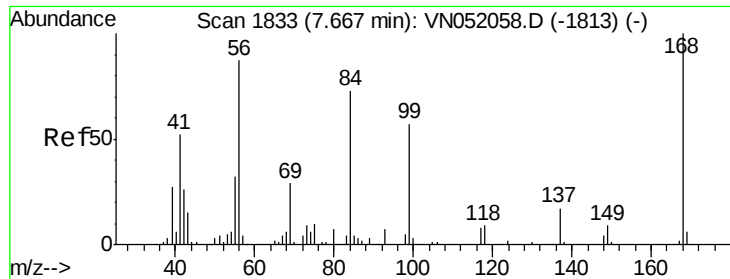
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 31 02:45:22 2018
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: VN052088.D

Acq: 31 Oct 2018 21:40

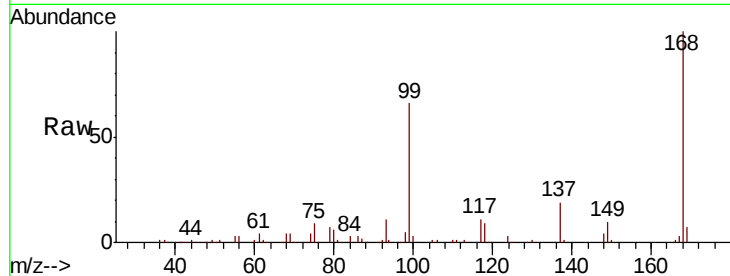
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 286557

Ion Ratio Lower Upper

168 100

99 65.6 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

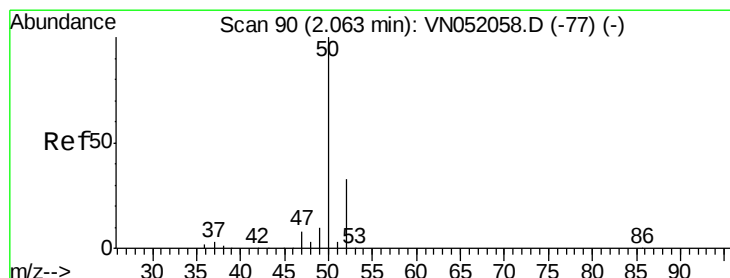
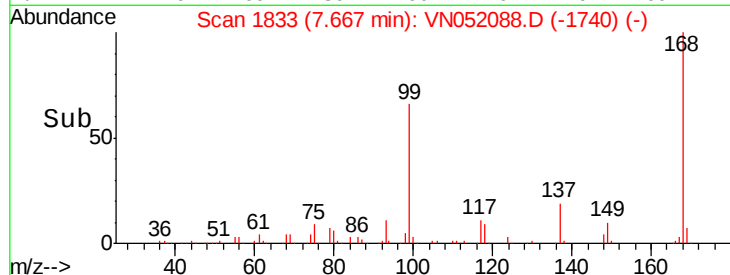
7.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.212 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052088.D

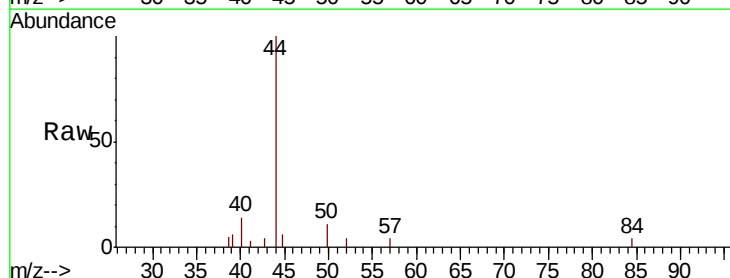
Acq: 31 Oct 2018 21:40

Tgt Ion: 50 Resp: 929

Ion Ratio Lower Upper

50 100

52 37.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

500

400

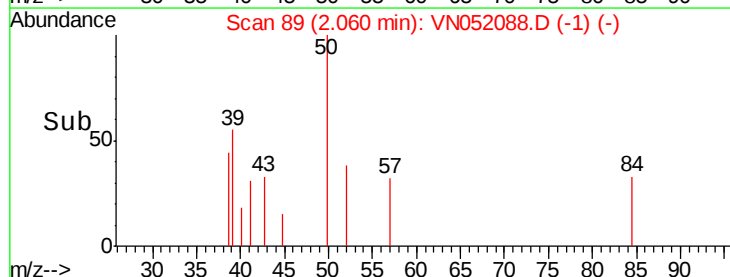
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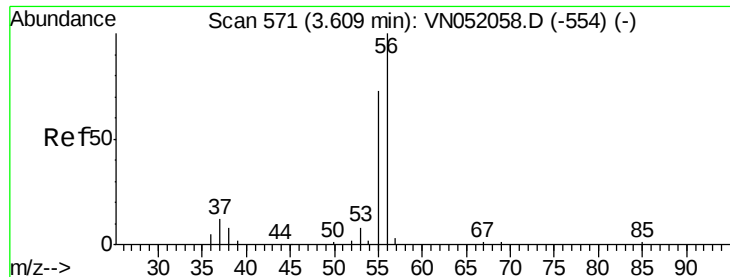
200

100

0

Time-->





#13

Acrolein

Concen: 24.151 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

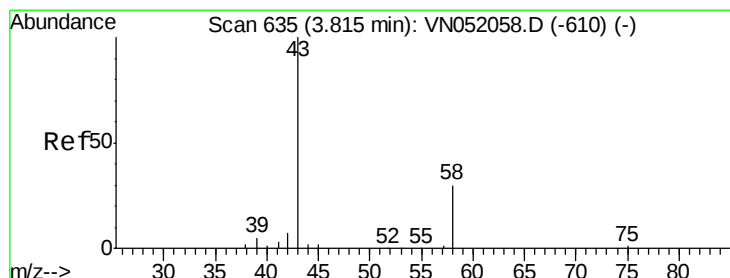
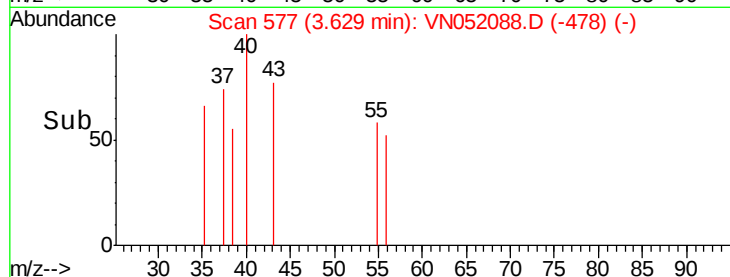
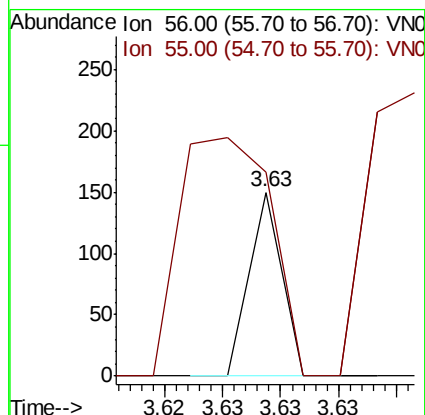
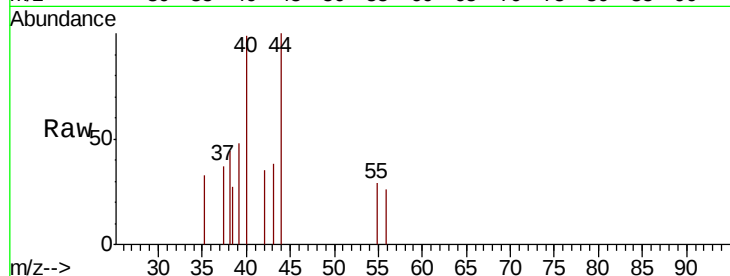
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 365.5 59.9 89.9#



#16

Acetone

Concen: 4.510 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052088.D

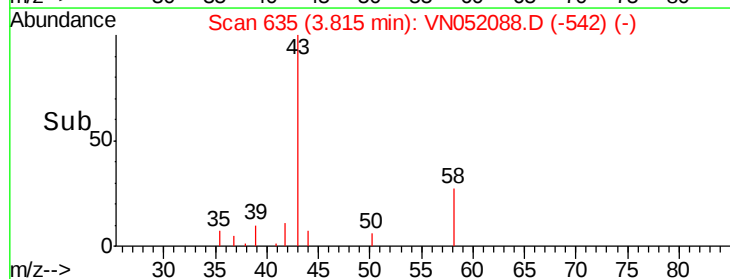
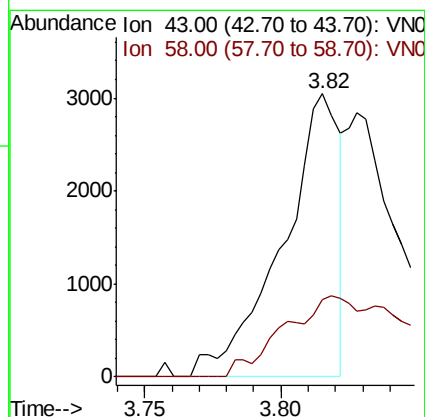
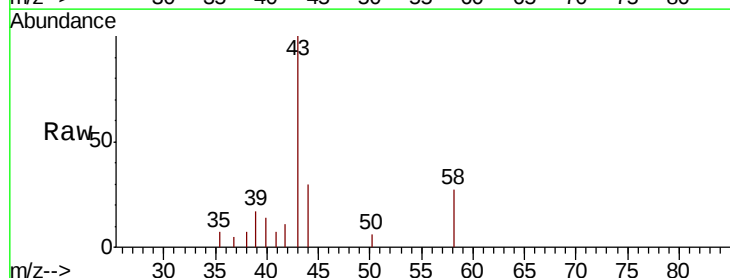
Acq: 31 Oct 2018 21:40

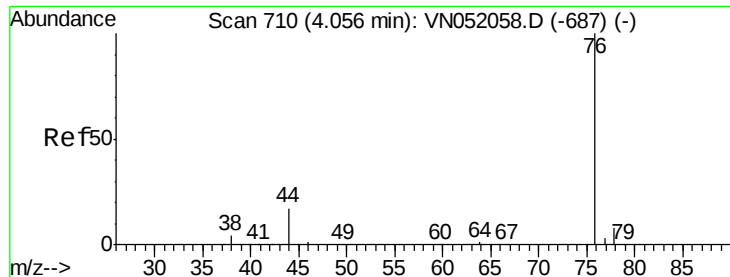
Tgt Ion: 43 Resp: 4427

Ion Ratio Lower Upper

43 100

58 27.4 24.2 36.2

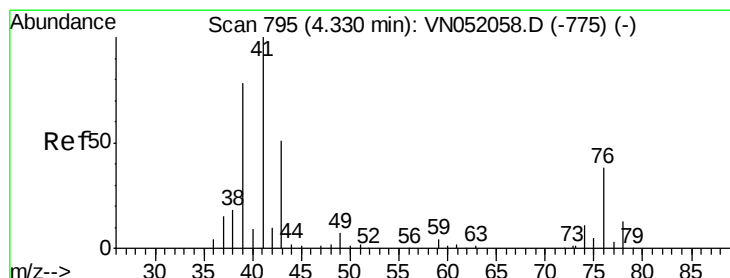
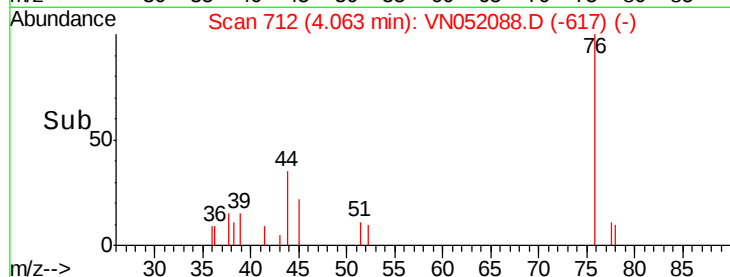
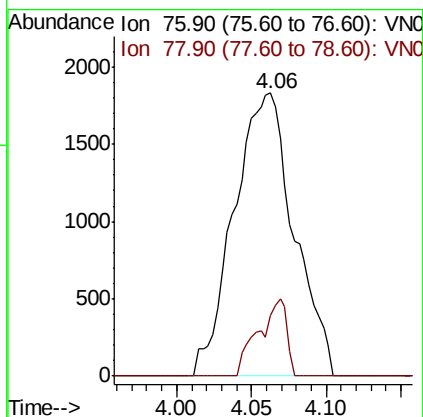
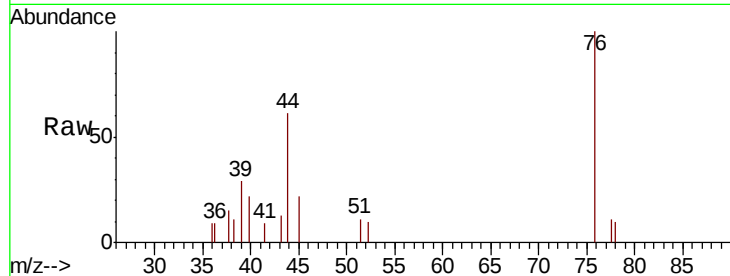




#17
Carbon Disulfide
Concen: 0.540 ug/l
RT: 4.06 min Scan# 712
Delta R.T. 0.01 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

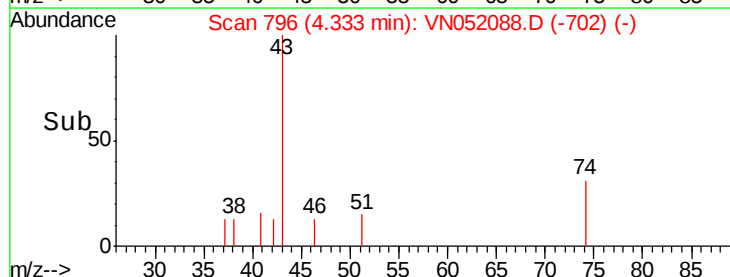
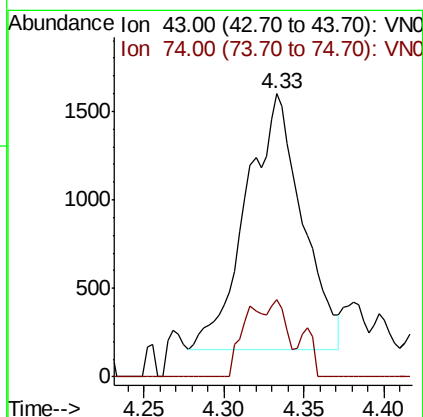
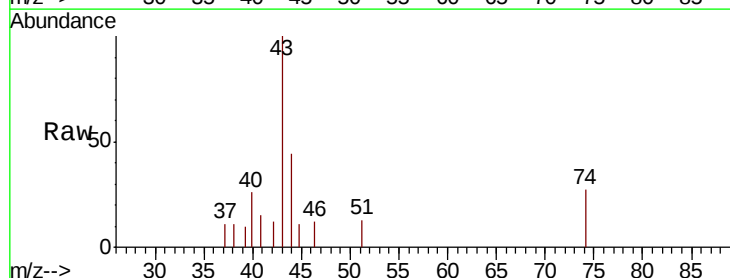
Instrument :
MSVOA_N
ClientSampled :

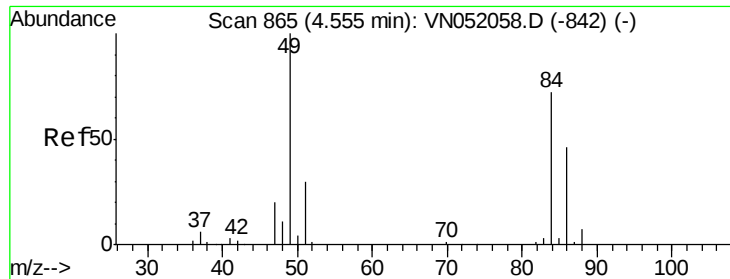
Tot Ion: 76 Resp: 5115
Ion Ratio Lower Upper
76 100
78 21.5 6.8 10.2#



#18
Methyl Acetate
Concen: 1.106 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

Tgt Ion: 43 Resp: 3457
Ion Ratio Lower Upper
43 100
74 12.2 17.9 26.9#

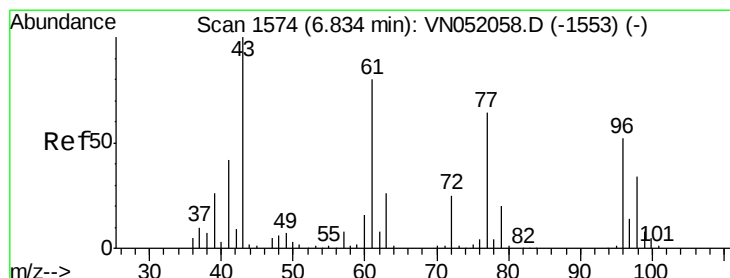
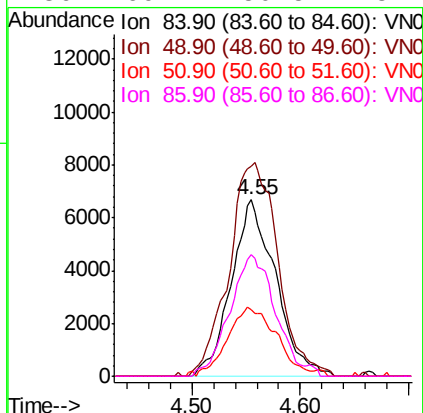
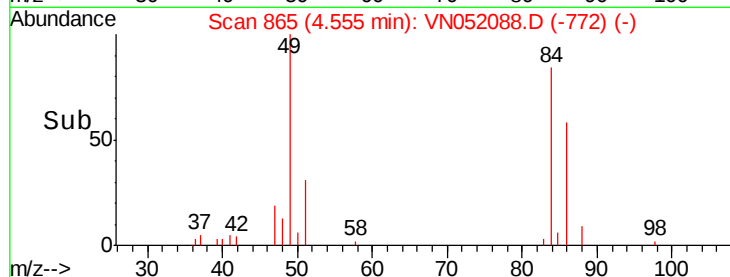
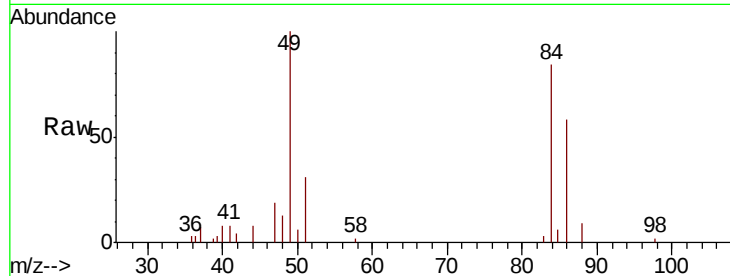




#20
Methvlene Chloride
Concen: 5.085 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

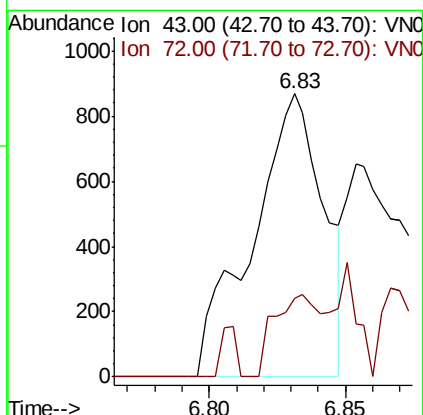
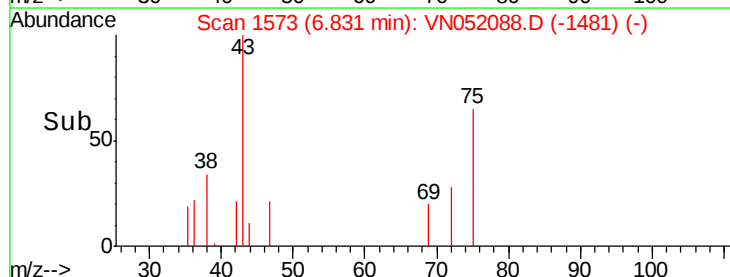
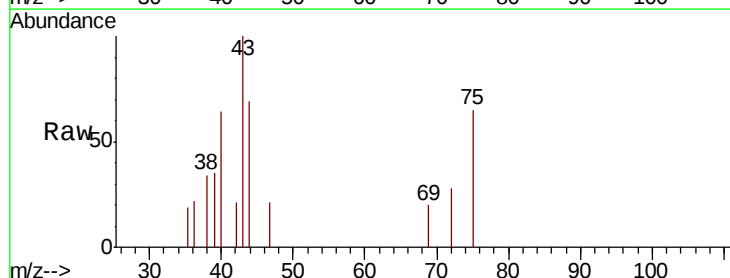
Instrument :
MSVOA_N
ClientSampled :

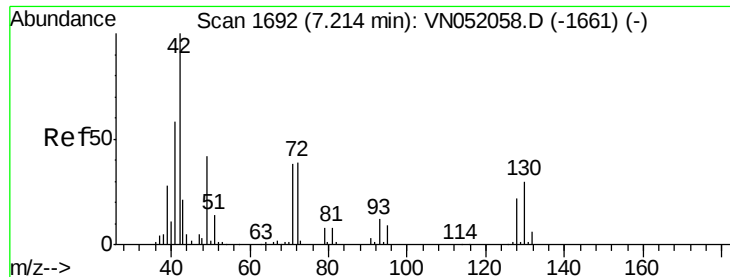
Tot Ion: 84 Resp: 19020
Ion Ratio Lower Upper
84 100
49 119.4 110.6 165.8
51 37.5 33.7 50.5
86 69.1 50.5 75.7



#25
2-Butanone
Concen: 1.018 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

Tgt Ion: 43 Resp: 1568
Ion Ratio Lower Upper
43 100
72 28.0 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.678 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

ClientSampled :

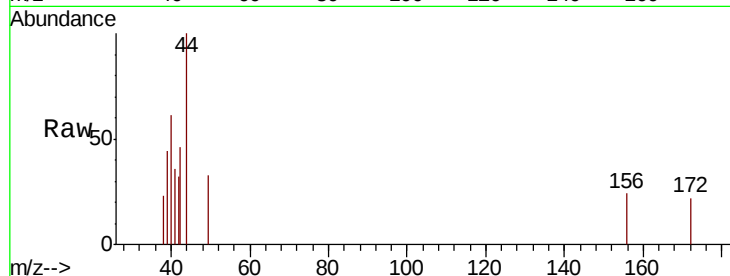
Tot Ion: 42 Resp: 695

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

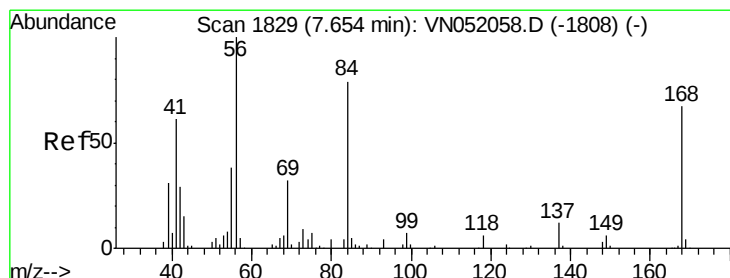
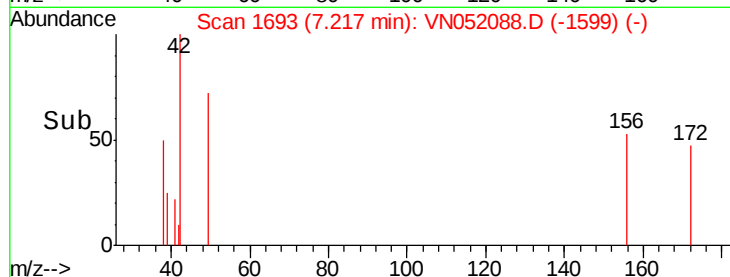
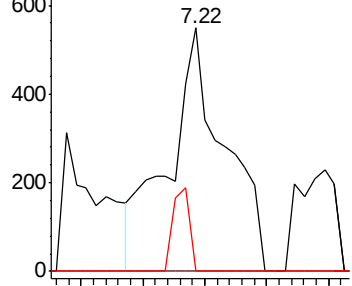
71 9.9 30.6 46.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

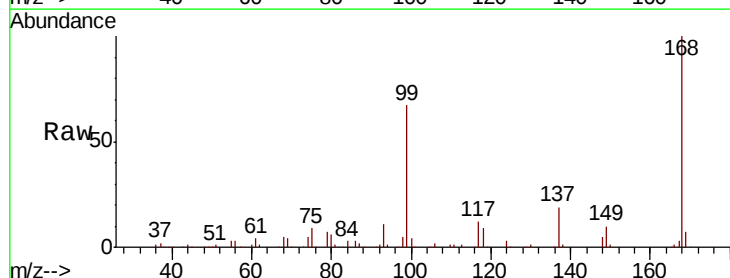
Tgt Ion: 56 Resp: 7892

Ion Ratio Lower Upper

56 100

69 147.0 25.8 38.6#

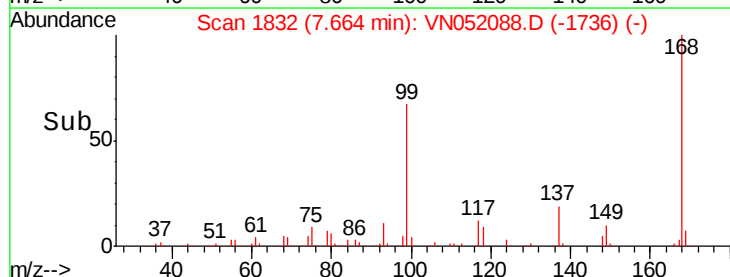
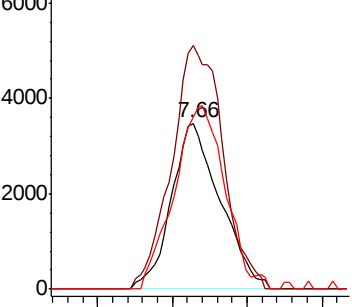
84 104.1 63.5 95.3#

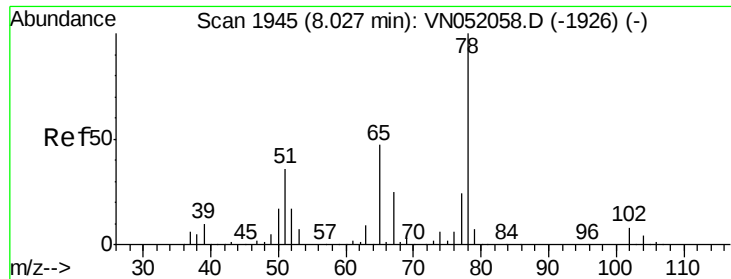


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

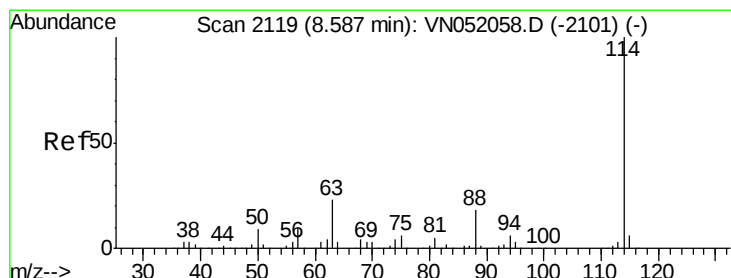
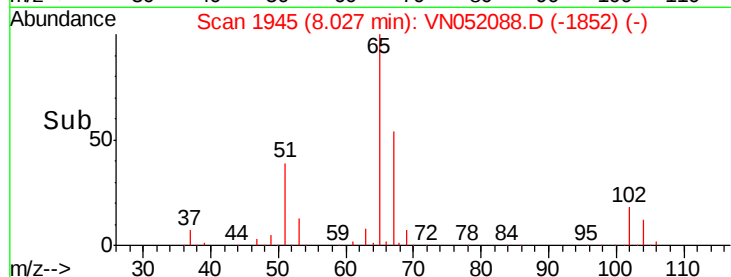
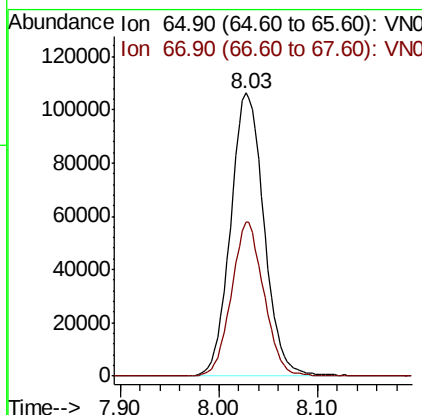
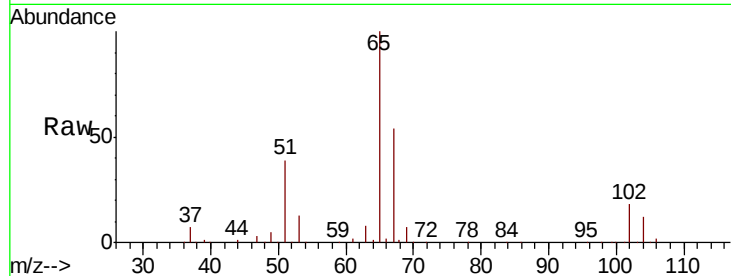




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052088.D
 Acq: 31 Oct 2018 21:40

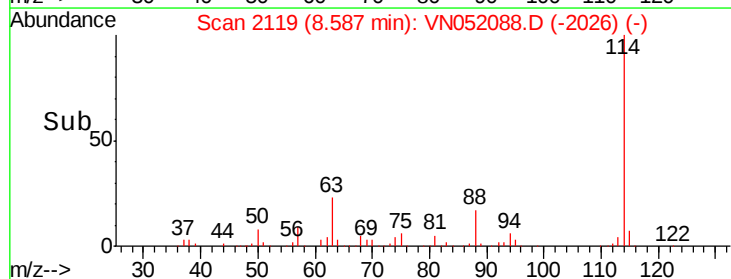
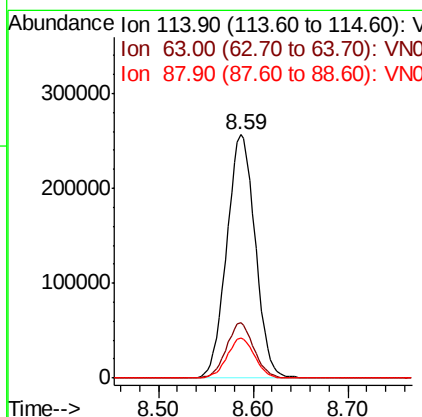
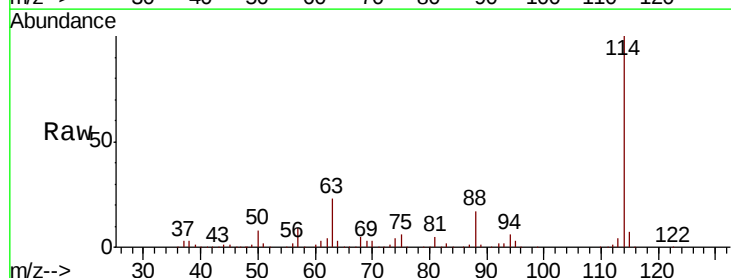
Instrument :
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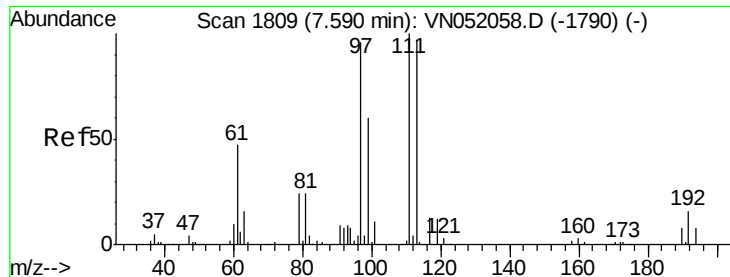
Tot Ion: 65 Resp: 250656
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052088.D
 Acq: 31 Oct 2018 21:40

Tgt Ion: 114 Resp: 536565
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.0
 88 16.5 0.0 35.4

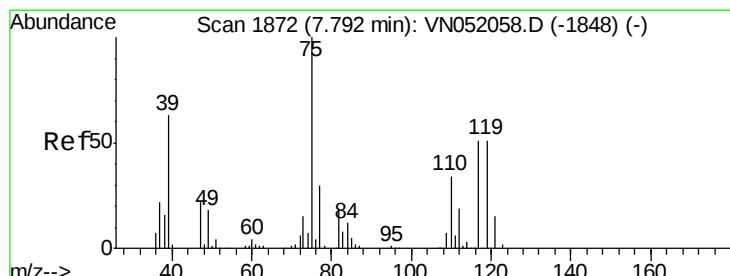
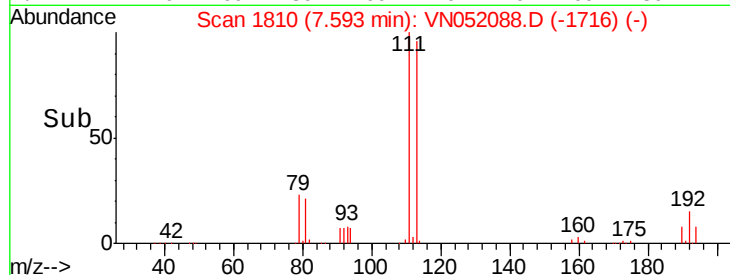
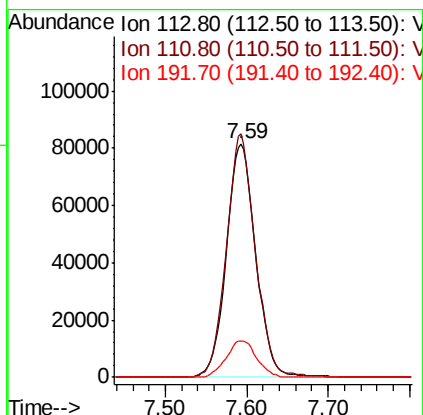
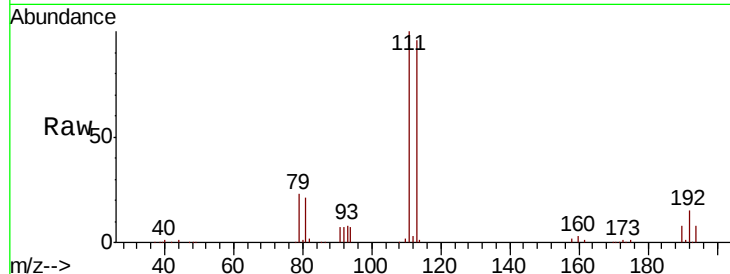




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052088.D
 Acq: 31 Oct 2018 21:40

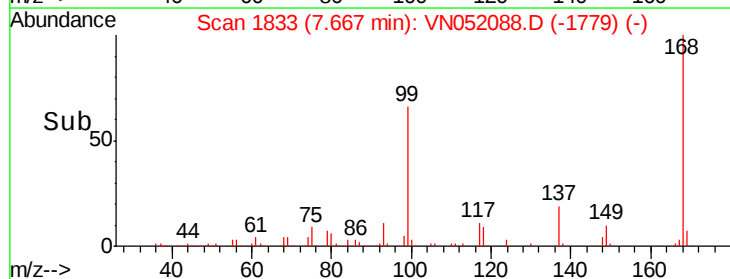
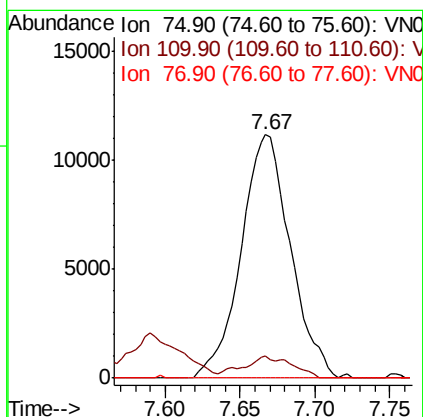
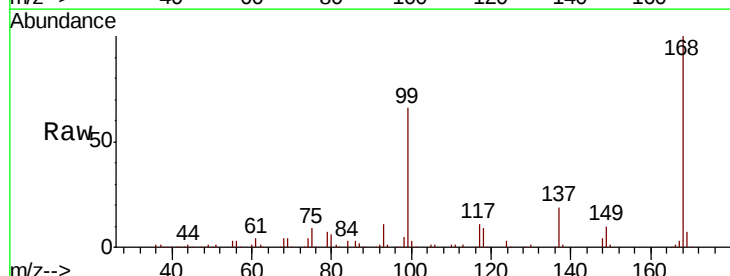
Instrument :
 MSVOA_N
 ClientSampled :

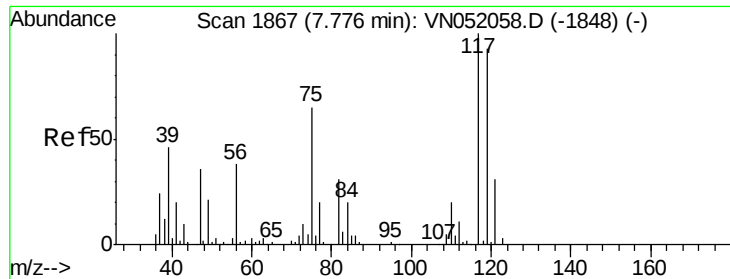
Tot Ion:113 Resp: 205743
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.1 124.7
 192 16.2 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.688 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052088.D
 Acq: 31 Oct 2018 21:40

Tgt Ion: 75 Resp: 25578
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.0 48.0#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.638 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

ClientSampleId :

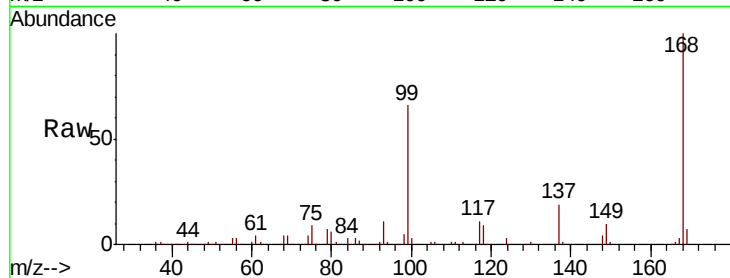
Tot Ion:117 Resp: 31225

Ion Ratio Lower Upper

117 100

119 3.5 74.8 112.2#

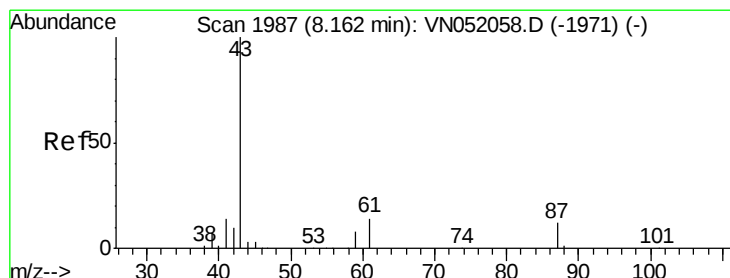
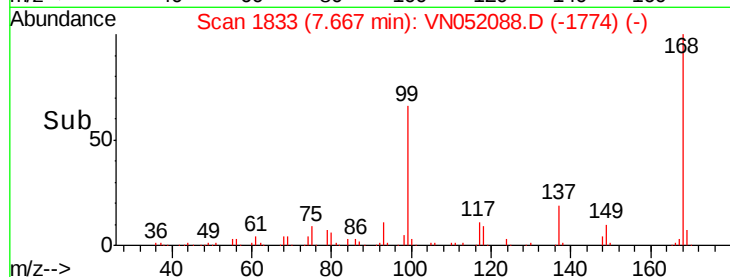
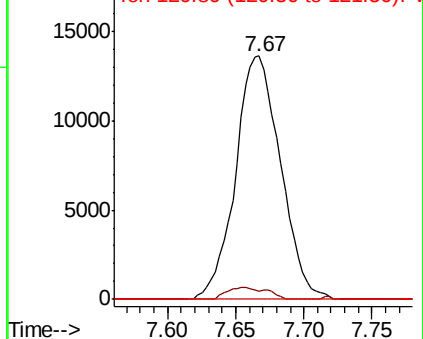
121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 22.844 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

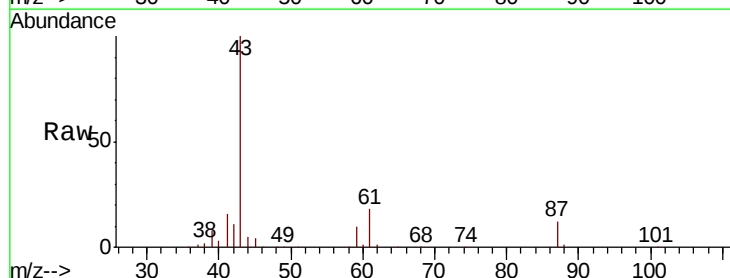
Tgt Ion: 43 Resp: 148372

Ion Ratio Lower Upper

43 100

61 18.3 15.4 23.0

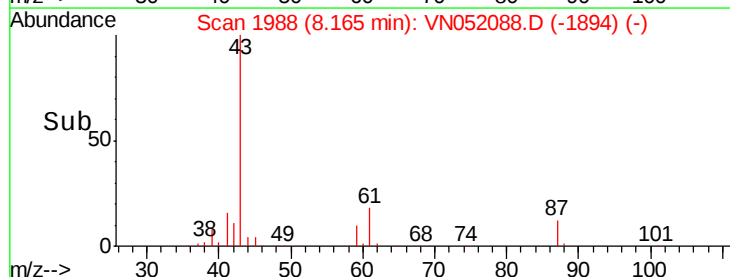
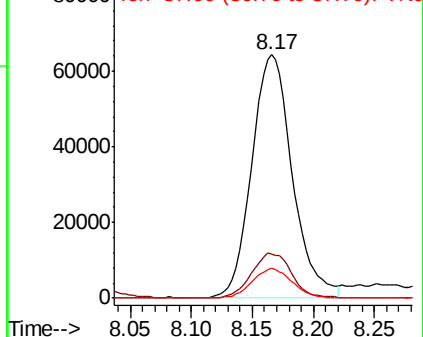
87 12.0 9.8 14.8

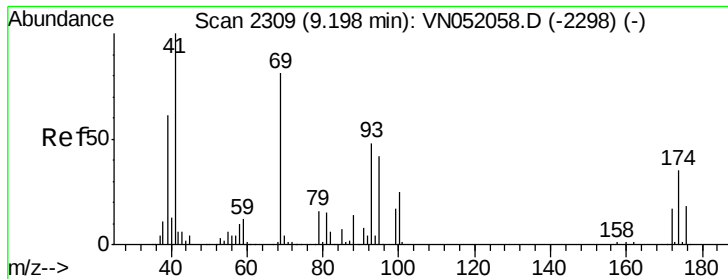


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

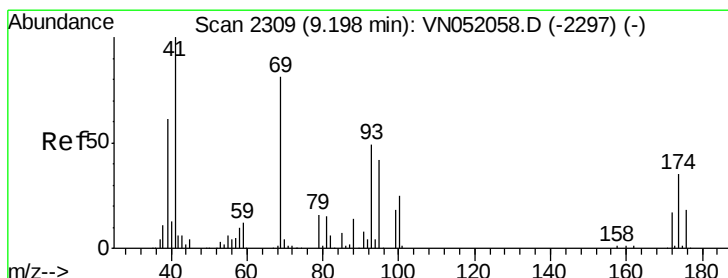
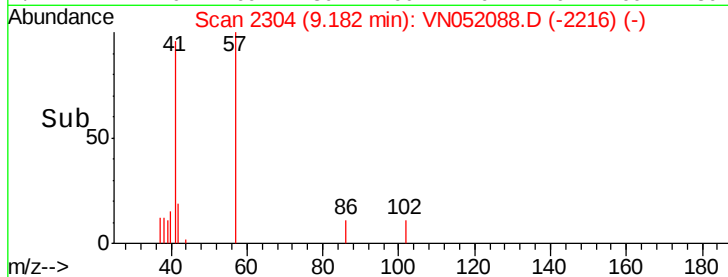
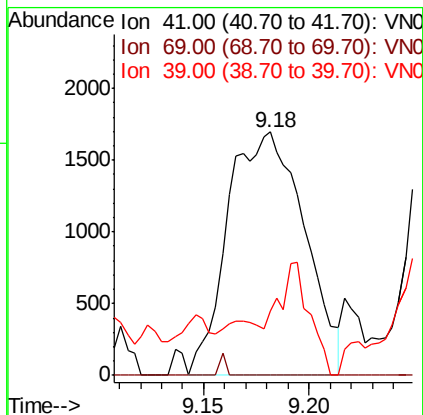
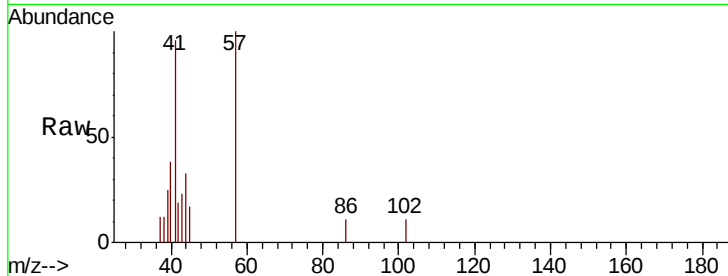




#48
Methvl methacrylate
Concen: 1.303 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

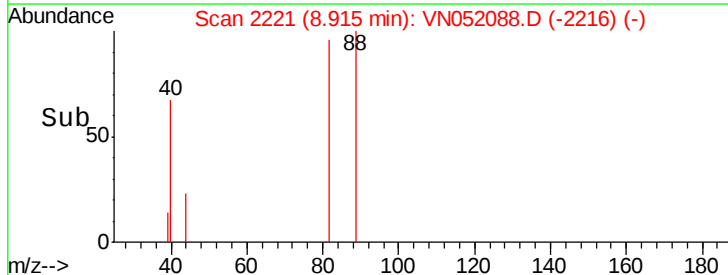
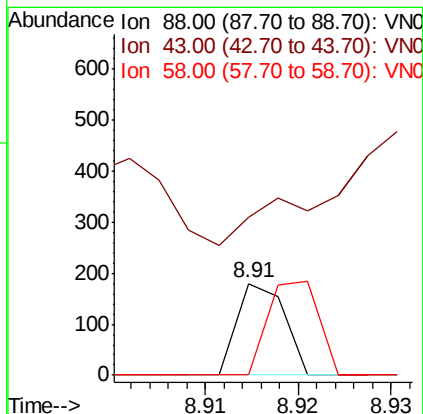
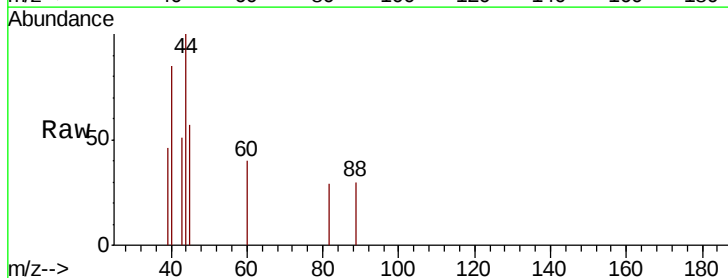
Instrument :
MSVOA_N
ClientSampled :

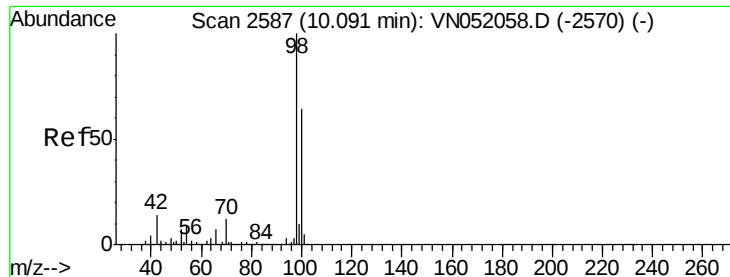
Tot Ion: 41 Resp: 4290
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 19.6 50.5 75.7#



#49
1,4-Dioxane
Concen: 27.321 ug/l
RT: 8.91 min Scan# 2221
Delta R.T. -0.28 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 107.8 62.8 94.2#





#50

Toluene-d8

Concen: 27.321 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

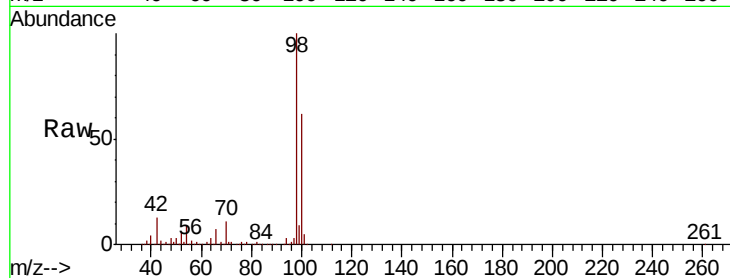
ClientSampled :

Tot Ion: 98 Resp: 812095

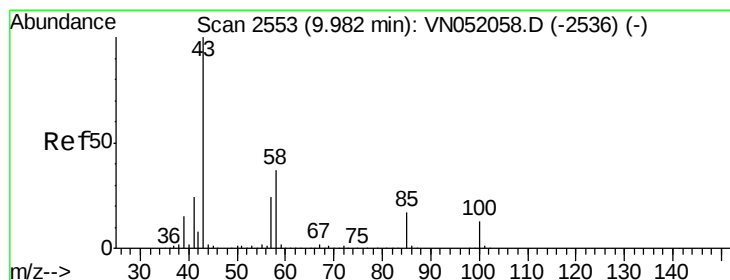
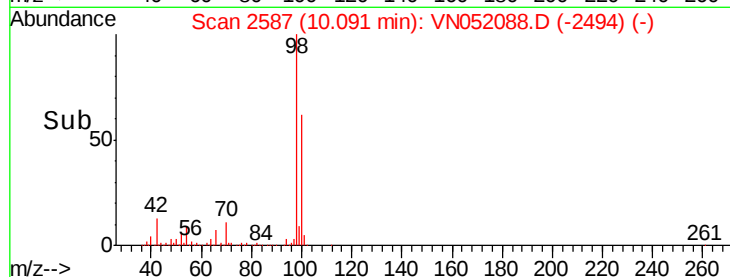
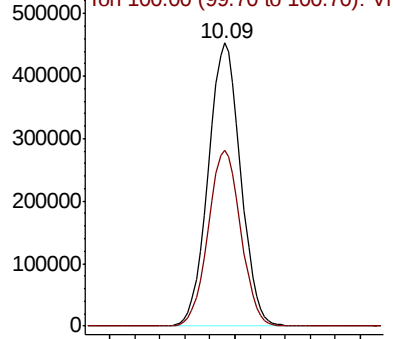
Ion Ratio Lower Upper

98 100

100 62.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052088.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.203 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052088.D

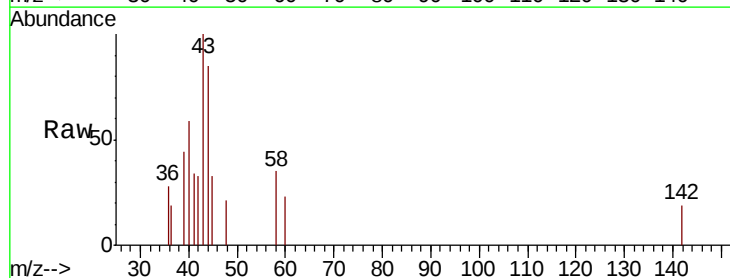
Acq: 31 Oct 2018 21:40

Tgt Ion: 43 Resp: 717

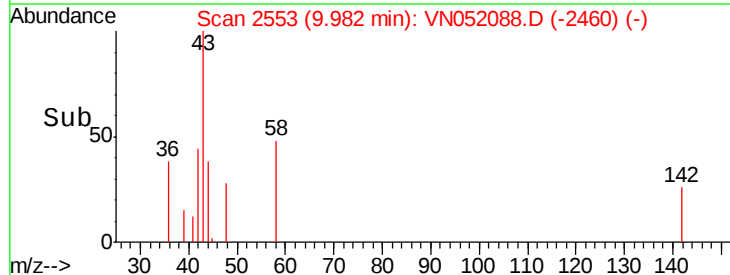
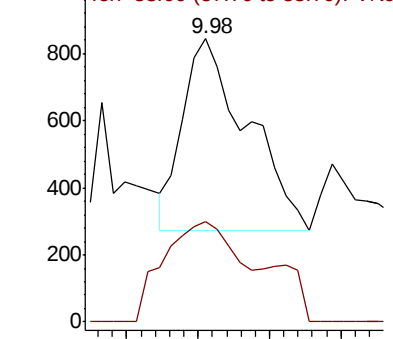
Ion Ratio Lower Upper

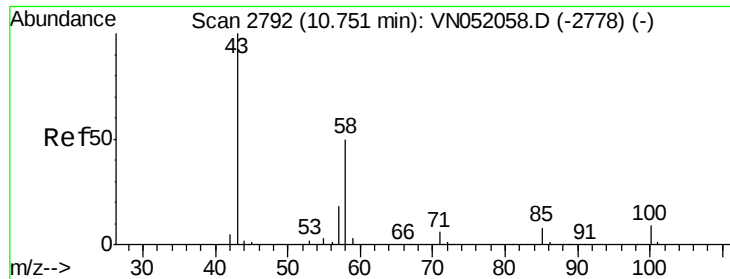
43 100

58 64.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052088.D (-2460) (-)





#59

2-Hexanone

Concen: 1.340 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

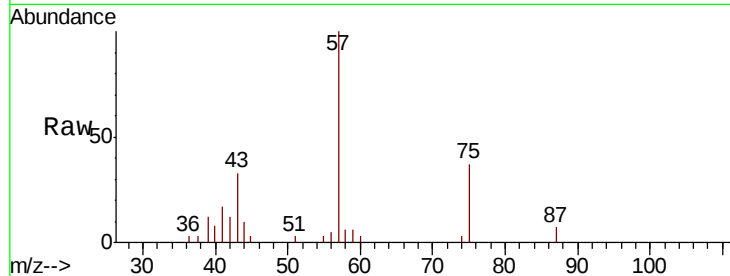
ClientSampleId :

Tot Ion: 43 Resp: 3370

Ion Ratio Lower Upper

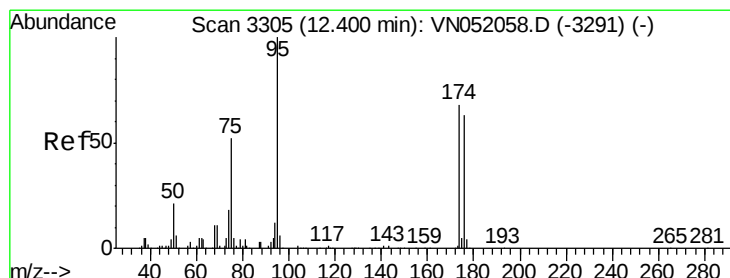
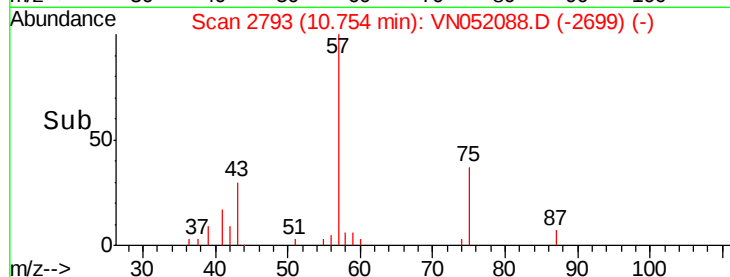
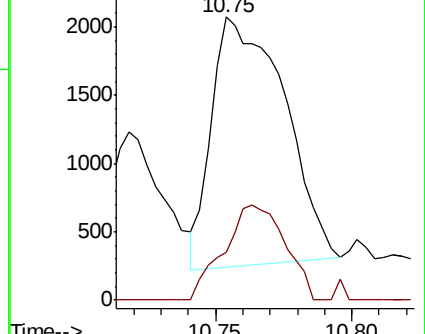
43 100

58 32.2 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

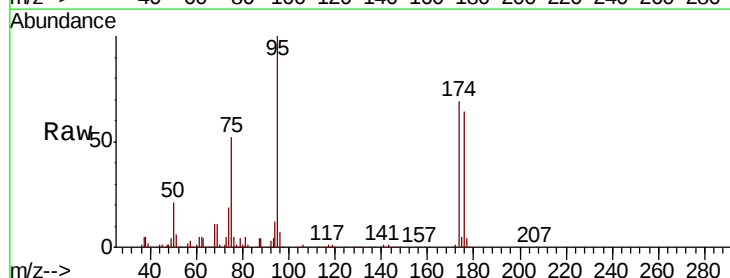
Tgt Ion: 95 Resp: 275890

Ion Ratio Lower Upper

95 100

174 70.9 0.0 131.8

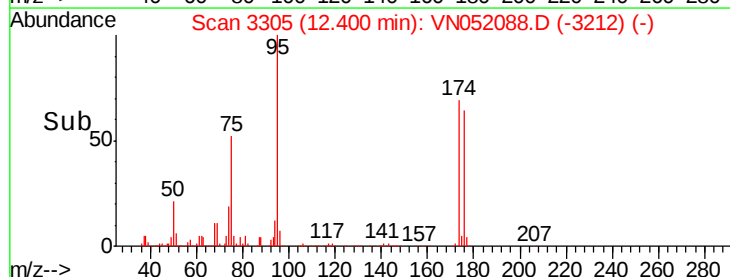
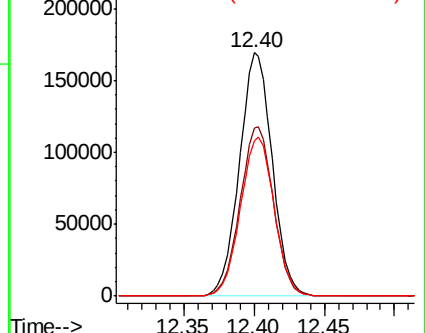
176 67.0 0.0 126.0

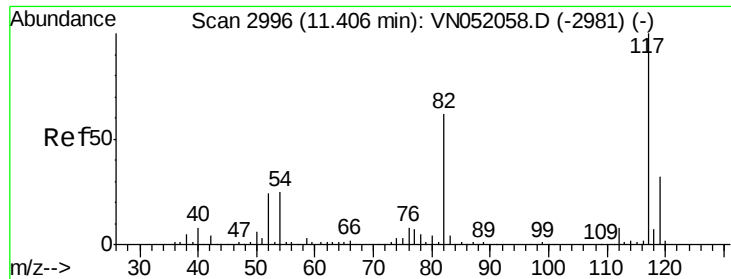


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

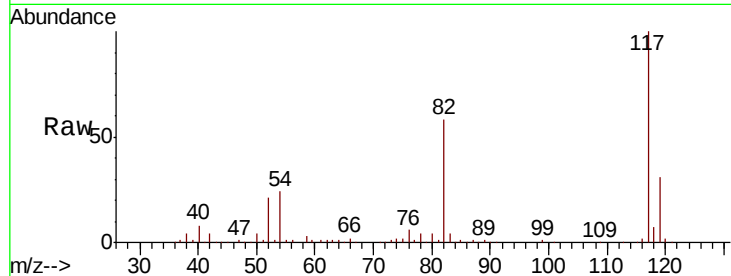




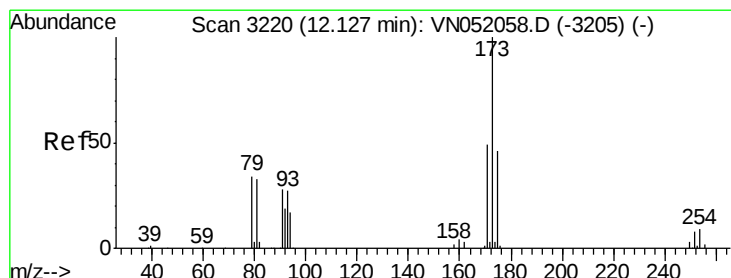
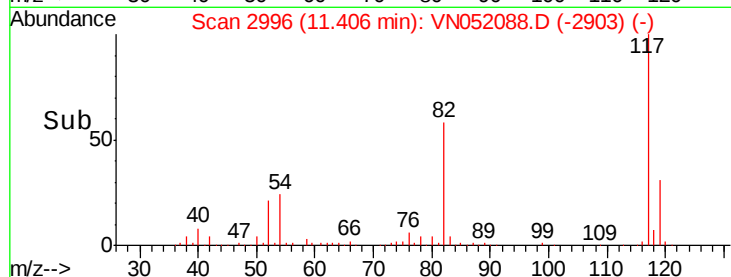
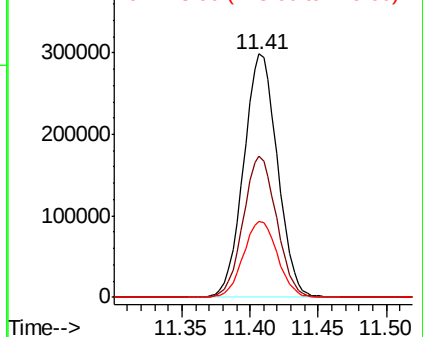
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 512999
Ion Ratio Lower Upper
117 100
82 58.0 49.9 74.9
119 31.4 25.7 38.5

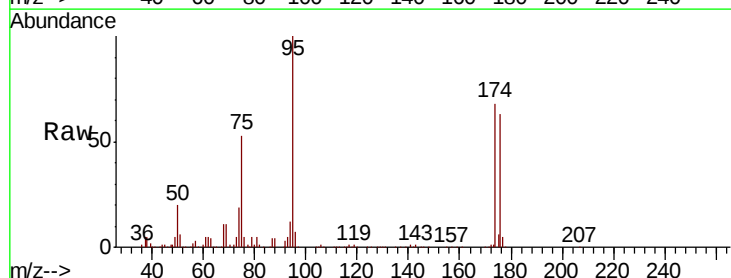


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

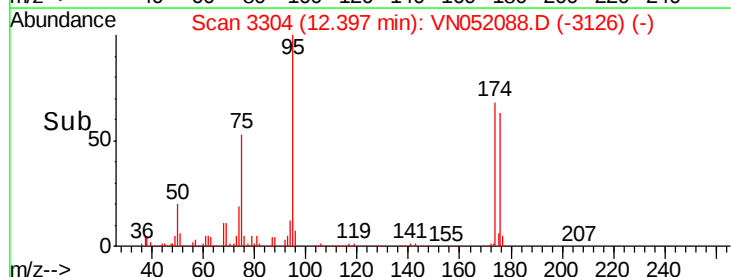
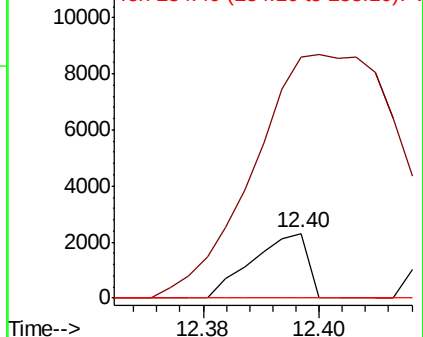


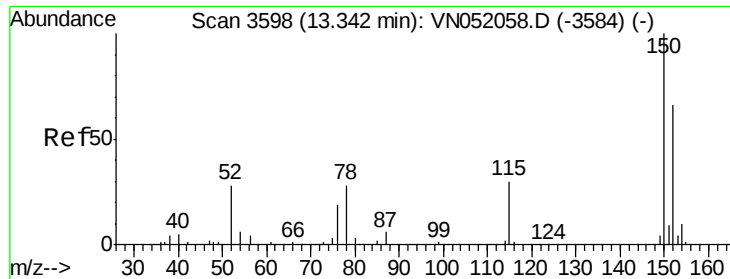
#71
Bromoform
Concen: 2.845 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN052088.D
Acq: 31 Oct 2018 21:40

Tgt Ion:173 Resp: 1520
Ion Ratio Lower Upper
173 100
175 900.2 23.9 71.7#
254 0.0 0.0 0.0



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

ClientSampled :

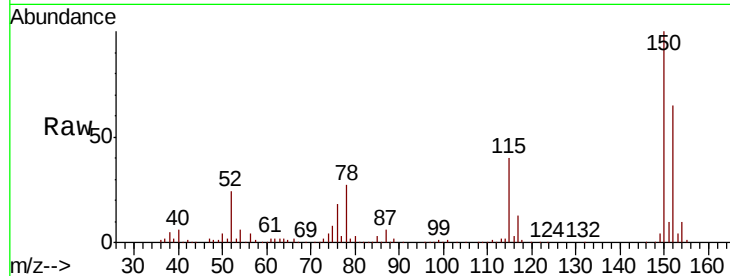
Tot Ion:152 Resp: 208386

Ion Ratio Lower Upper

152 100

115 62.5 31.6 95.0

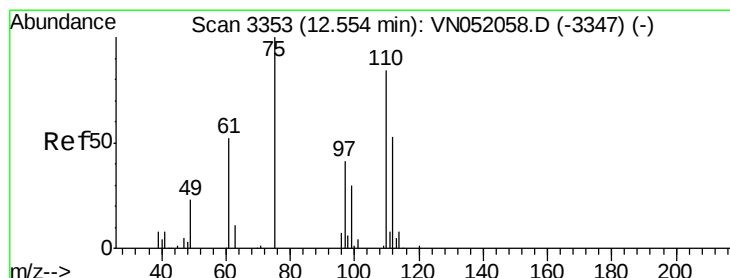
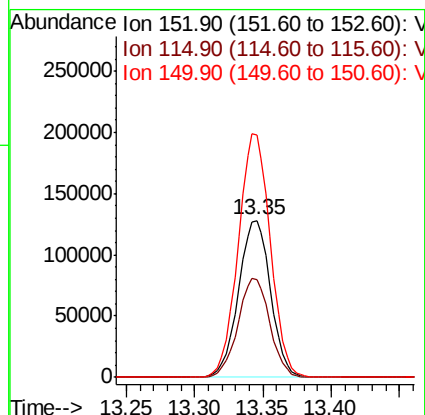
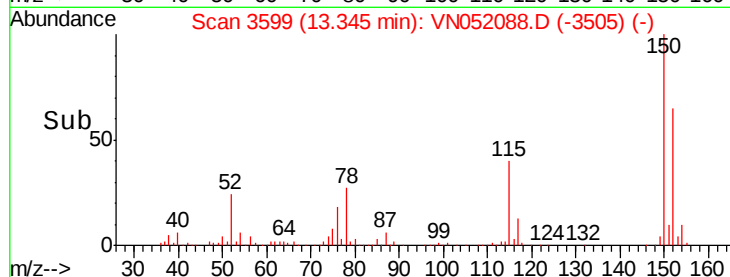
150 155.3 0.0 345.0



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: 38.846 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052088.D

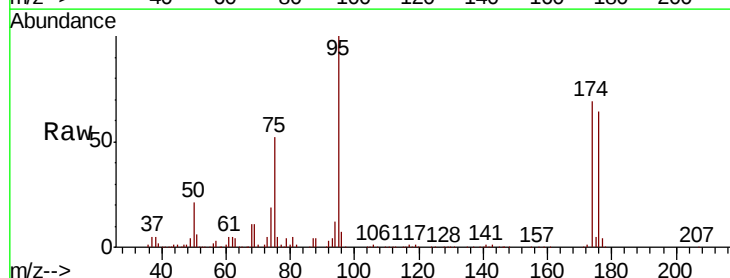
Acq: 31 Oct 2018 21:40

Tgt Ion: 75 Resp: 148181

Ion Ratio Lower Upper

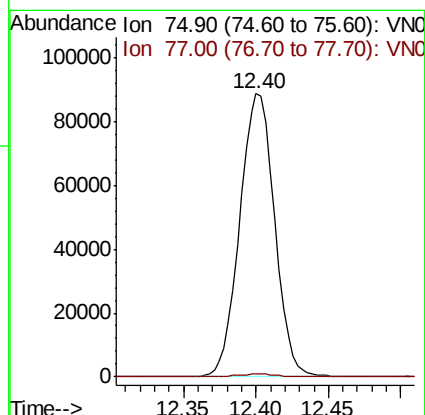
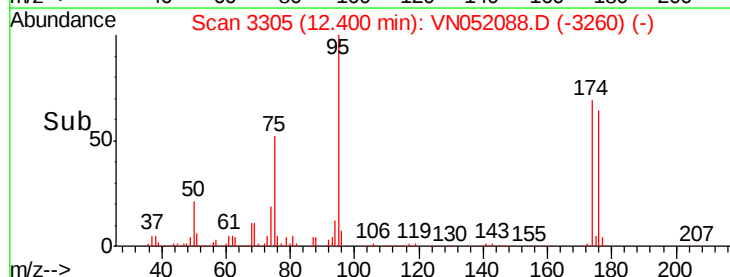
75 100

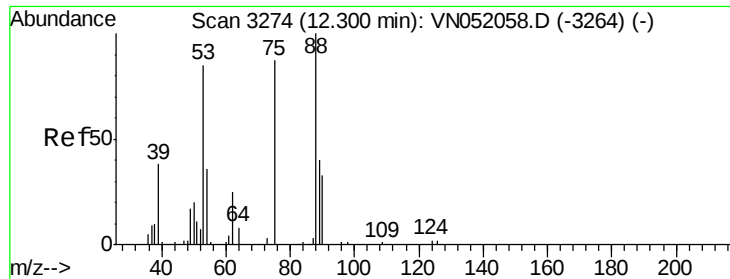
77 1.1 0.0 0.0#



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: 128.935 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

ClientSampled :

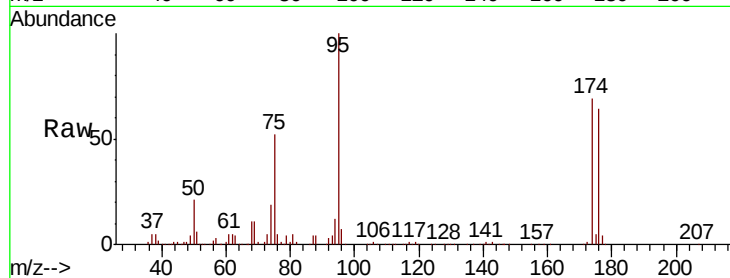
Tot Ion: 75 Resp: 148181

Ion Ratio Lower Upper

75 100

53 0.2 81.8 122.6#

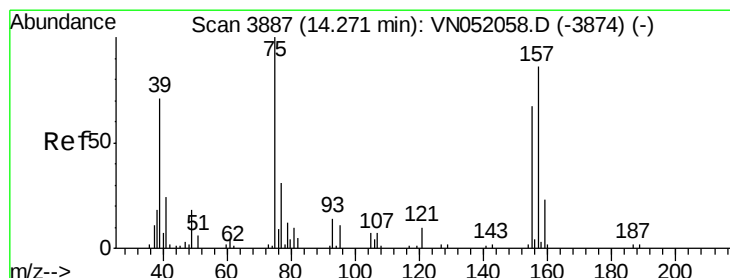
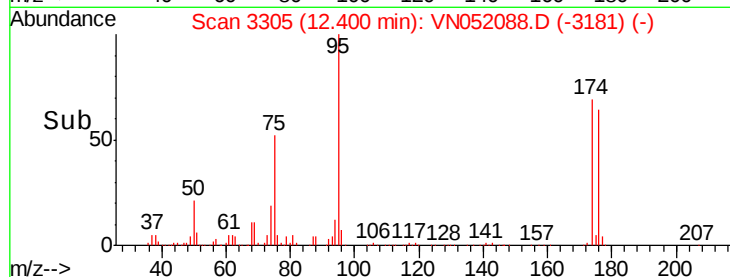
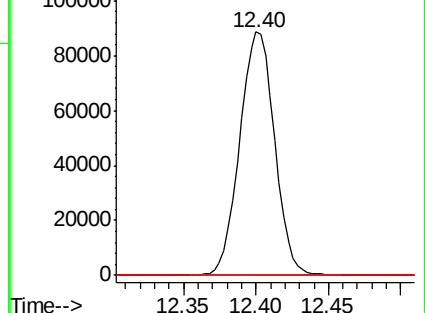
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.965 ug/l

RT: 14.28 min Scan# 3891

Delta R.T. 0.01 min

Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

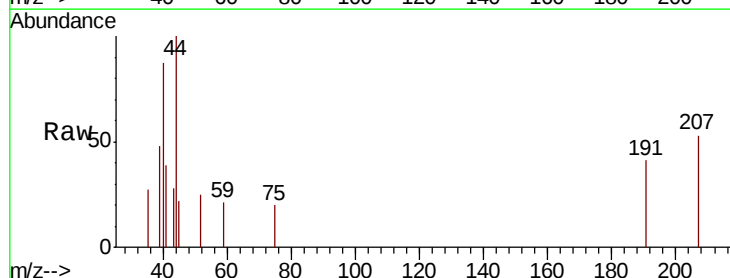
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

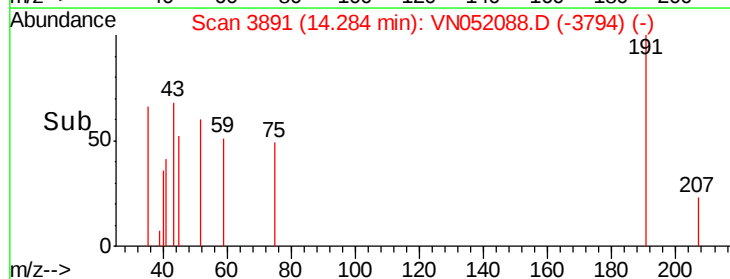
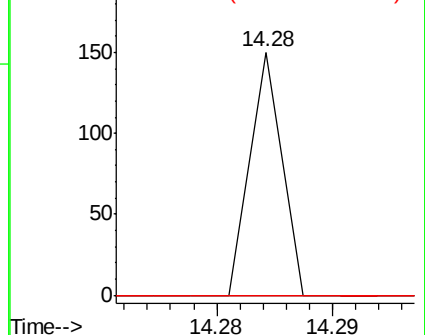
157 0.0 42.1 126.4#

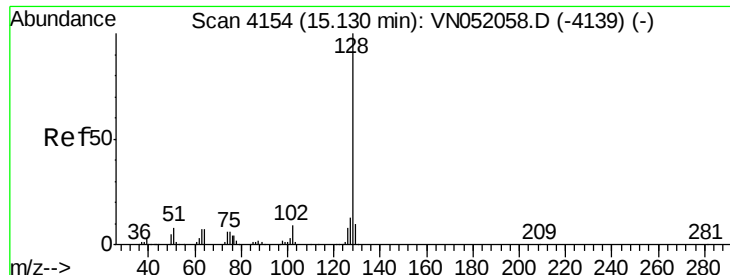


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.614 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

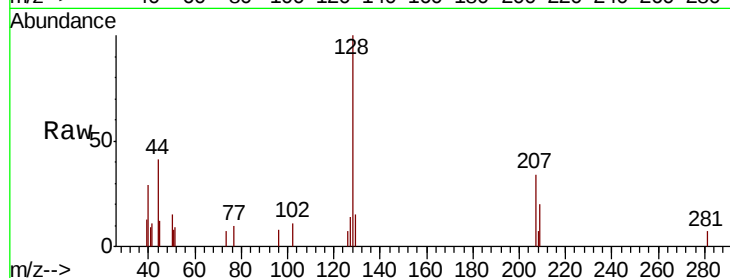
Lab File: VN052088.D

Acq: 31 Oct 2018 21:40

Instrument :

MSVOA_N

ClientSampleId :



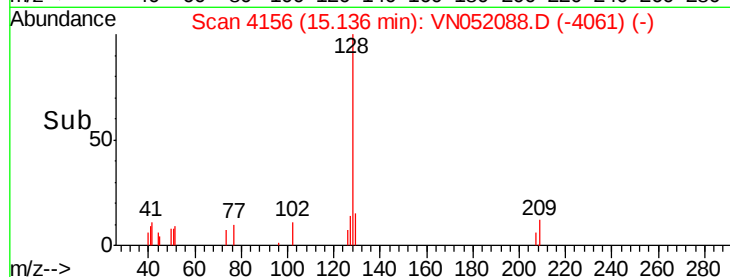
Tot Ion:128 Resp: 3666

Ion Ratio Lower Upper

128 100

127 7.7 10.5 15.7#

129 8.1 8.6 12.8#



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

