

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062718\
 Data File : VN049579.D
 Acq On : 27 Jun 2018 18:14
 Operator : MD\SY
 Sample : PB110627ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 28 01:24:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1126912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1806753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1486270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	595026	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	740259	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	7.59	113	619521	42.38	ug/l	0.00
Spiked Amount			Recovery	=	84.76%	
50) Toluene-d8	10.09	98	2426019	43.59	ug/l	0.00
Spiked Amount			Recovery	=	87.18%	
62) 4-Bromofluorobenzene	12.40	95	700188	38.05	ug/l	0.00
Spiked Amount			Recovery	=	76.10%	

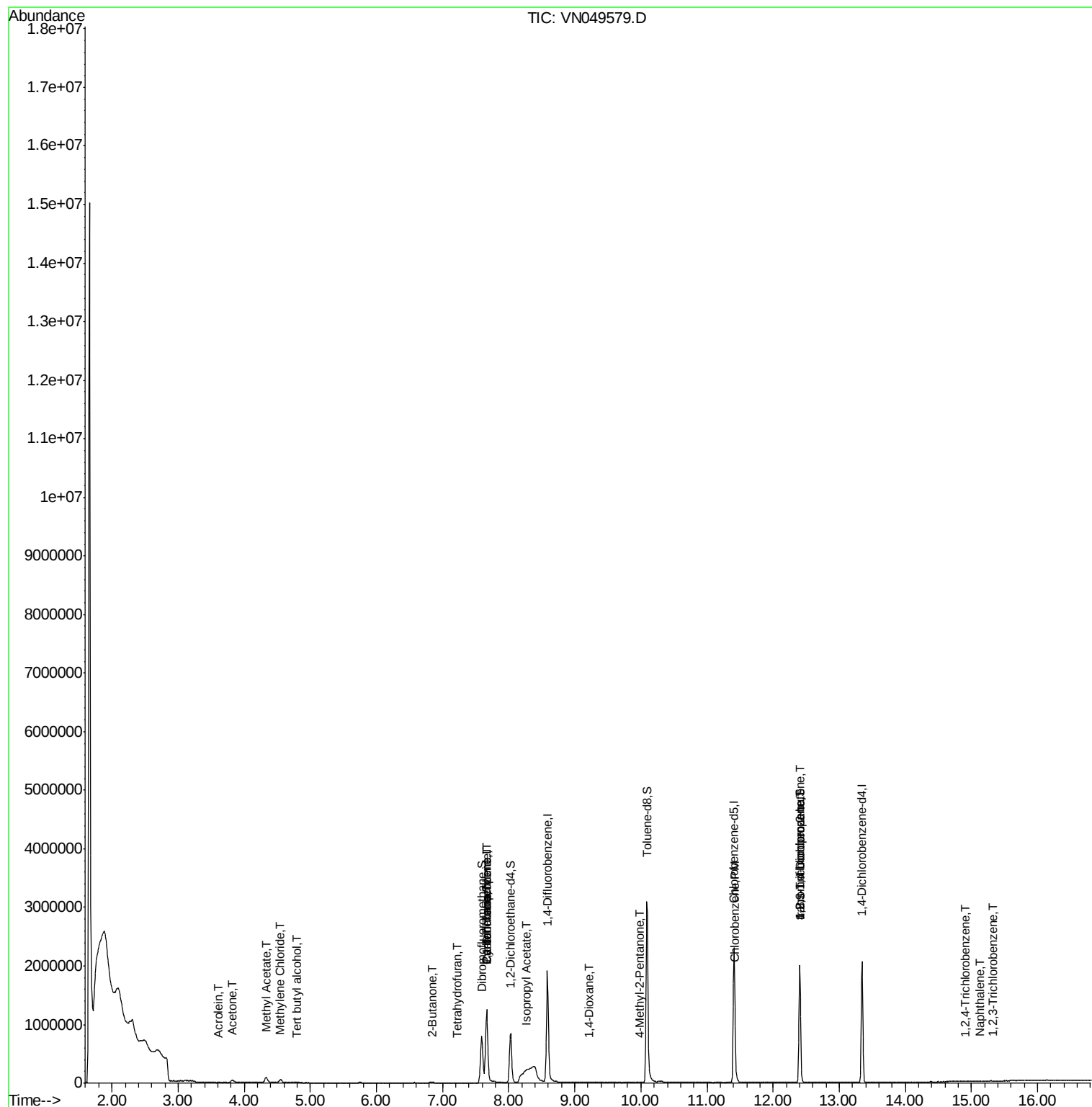
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	589	0.67	ug/l #	70
13) Acrolein	3.61	56	2218	2.41	ug/l #	58
16) Acetone	3.82	43	88129	24.28	ug/l	93
18) Methyl Acetate	4.33	43	182335	16.48	ug/l	98
20) Methylene Chloride	4.55	84	36138	2.38	ug/l	88
25) 2-Butanone	6.84	43	9664	1.98	ug/l	92
29) Tetrahydrofuran	7.23	42	1722	0.55	ug/l #	48
31) Cyclohexane	7.67	56	20951	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	77133	3.72	ug/l #	51
38) Carbon Tetrachloride	7.67	117	101408	4.73	ug/l #	17
43) Isopropyl Acetate	8.26	43	337320	15.68	ug/l #	64
49) 1,4-Dioxane	9.21	88	131	0.94	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6397	0.57	ug/l	98
65) Chlorobenzene	11.43	112	18423	0.48	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.49	83	61	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.40	75	341291	33.62	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	341291	106.24	ug/l #	9
90) Hexachloroethane	13.74	117	38	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	461	4.78	ug/l #	65
95) Naphthalene	15.14	128	1453	2.17	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.33	180	244	3.48	ug/l #	33

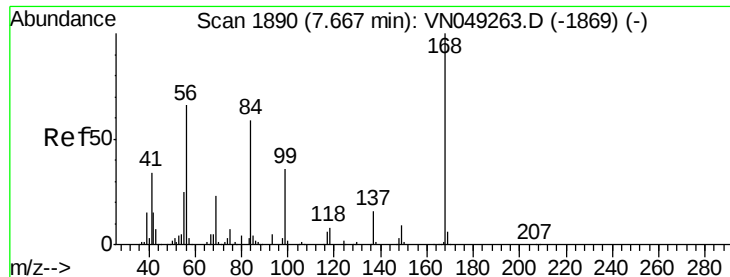
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

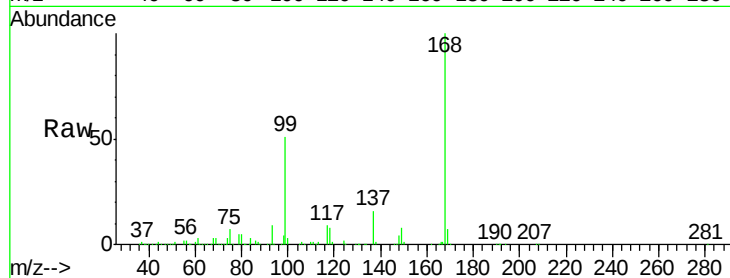
ClientSampled :

Tot Ion:168 Resp: 1126912

Ion Ratio Lower Upper

168 100

99 50.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

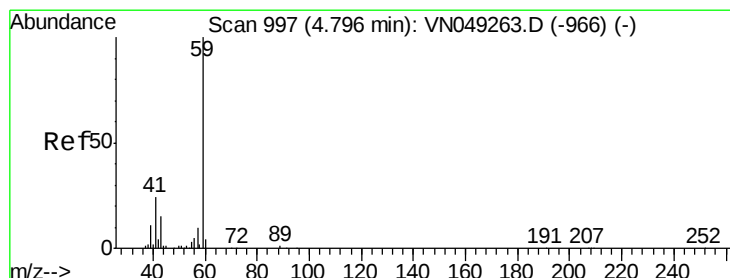
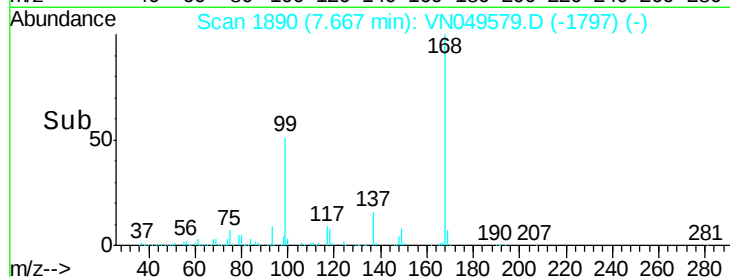
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.67 ug/l

RT: 4.80 min Scan# 997

Delta R.T. -0.00 min

Lab File: VN049579.D

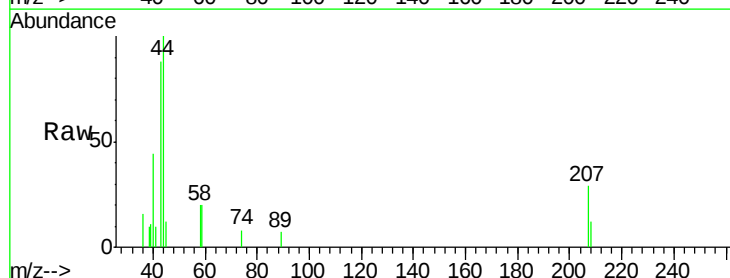
Acq: 27 Jun 2018 18:14

Tgt Ion: 59 Resp: 589

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

500

400

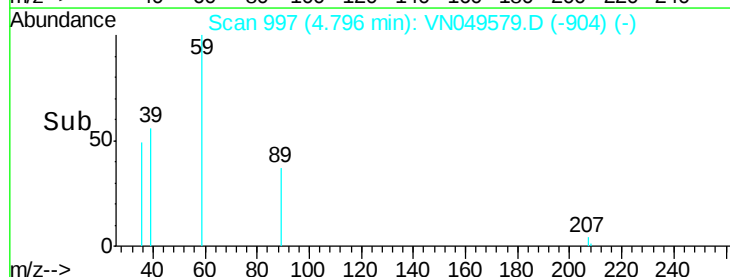
300

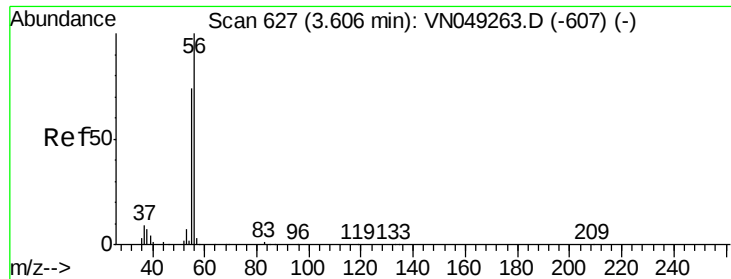
200

100

0

Time-->





#13

Acrolein

Concen: 2.41 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

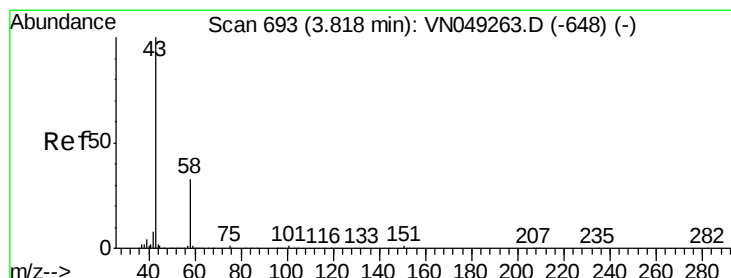
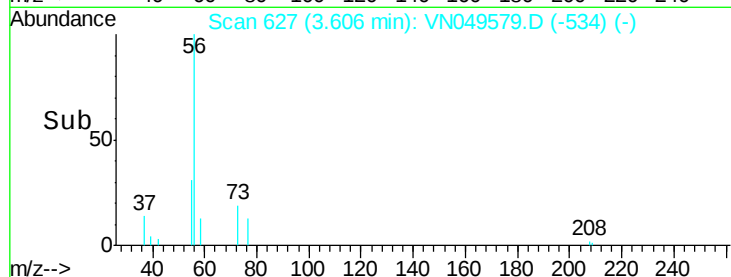
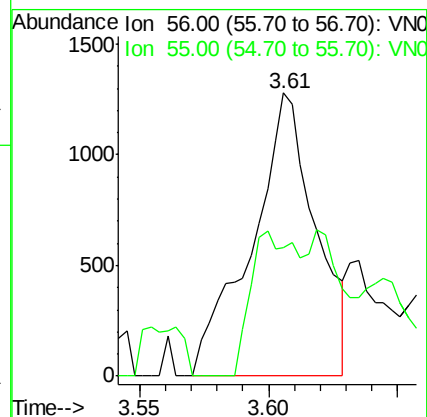
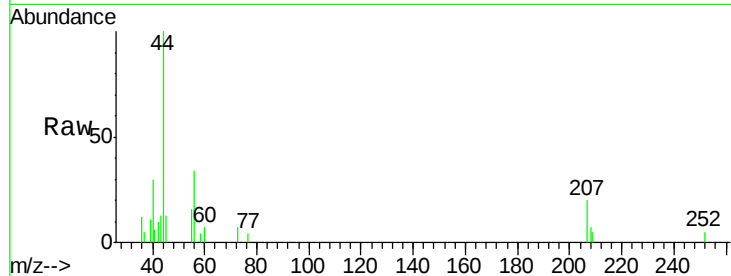
ClientSampled :

Tot Ion: 56 Resp: 2218

Ion Ratio Lower Upper

56 100

55 36.6 57.1 85.7#



#16

Acetone

Concen: 24.28 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.00 min

Lab File: VN049579.D

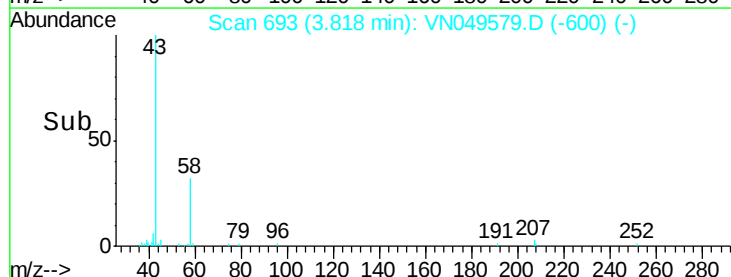
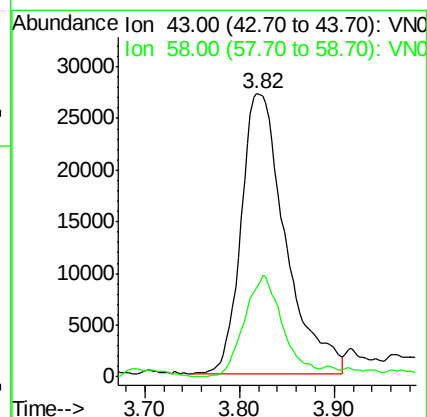
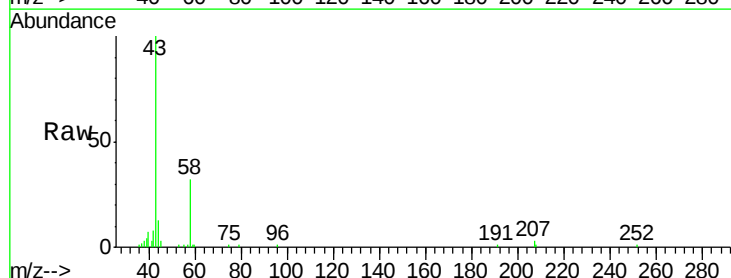
Acq: 27 Jun 2018 18:14

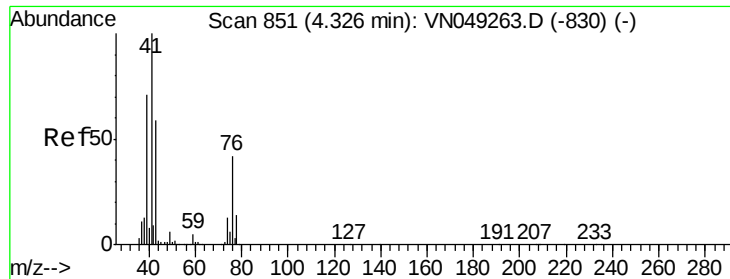
Tgt Ion: 43 Resp: 88129

Ion Ratio Lower Upper

43 100

58 31.9 22.4 33.6

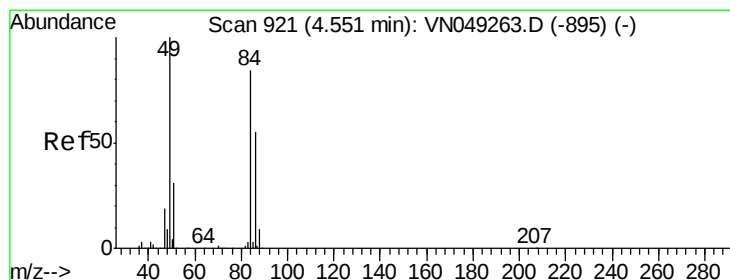
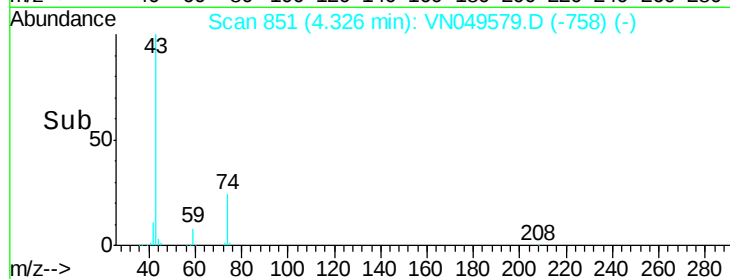
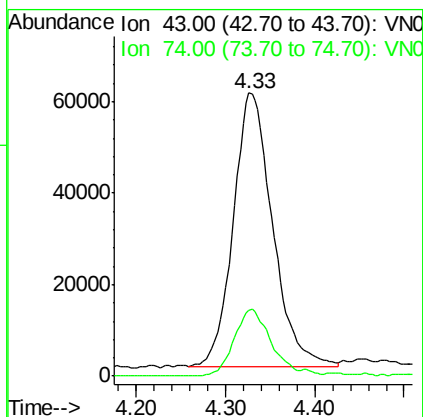
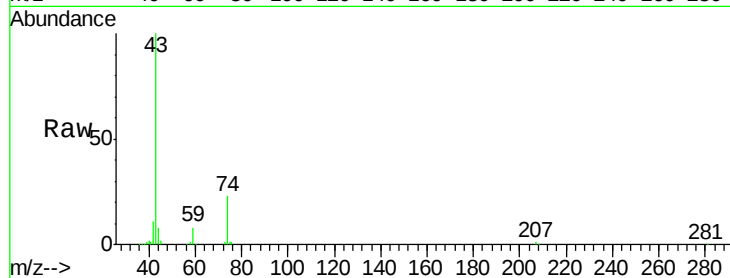




#18
Methvl Acetate
Concen: 16.48 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

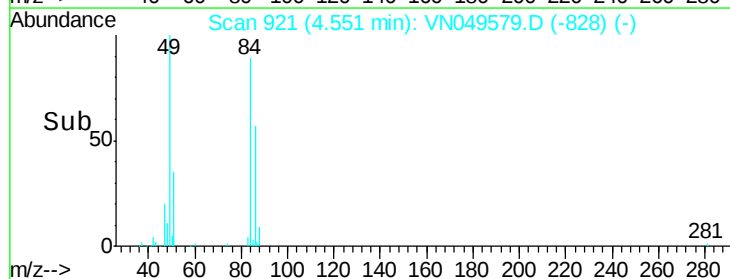
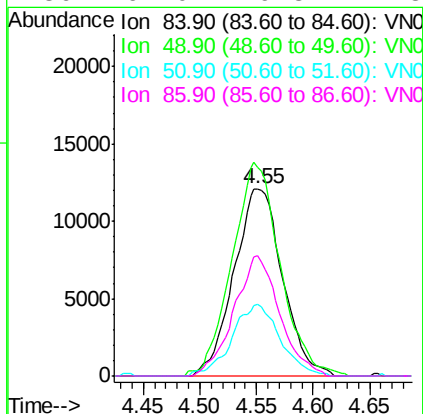
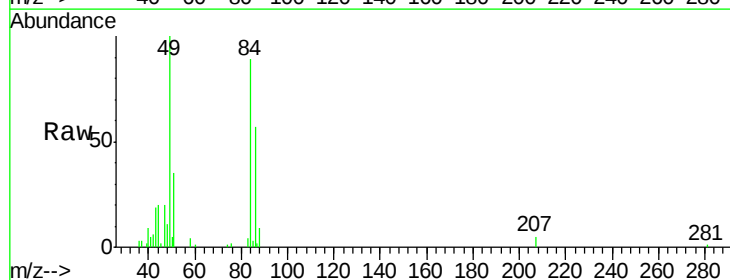
Instrument :
MSVOA_N
ClientSampleId :

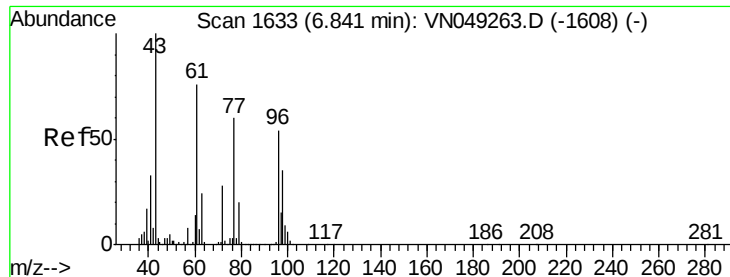
Tot Ion: 43 Resp: 182335
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.0



#20
Methylene Chloride
Concen: 2.38 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Tgt Ion: 84 Resp: 36138
Ion Ratio Lower Upper
84 100
49 109.9 106.9 160.3
51 38.6 32.7 49.1
86 64.0 49.8 74.8

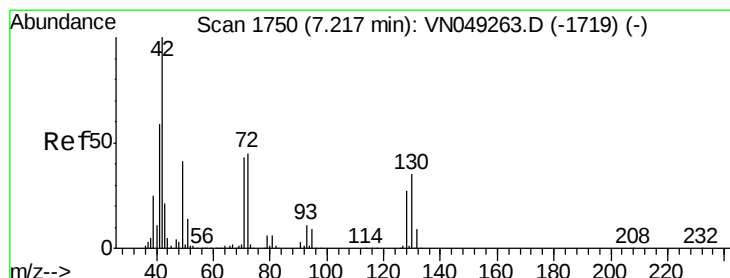
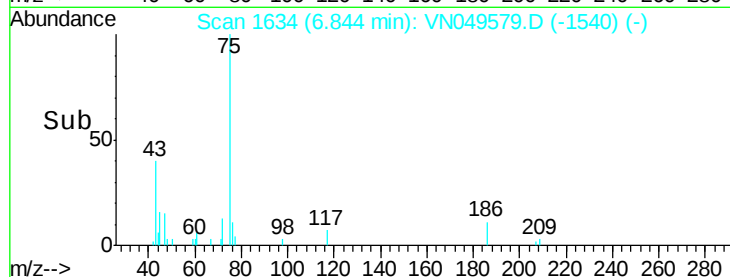
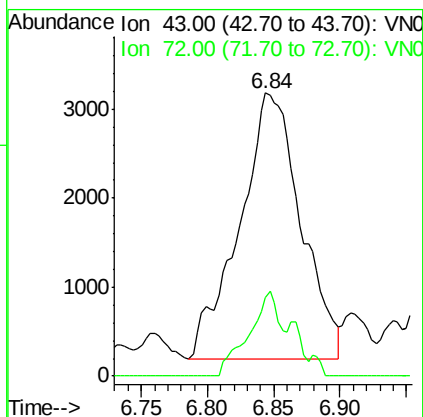
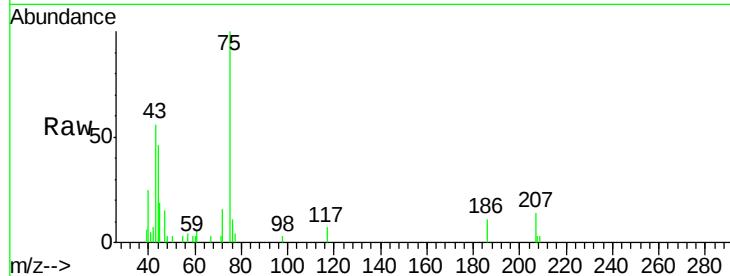




#25
2-Butanone
Concen: 1.98 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

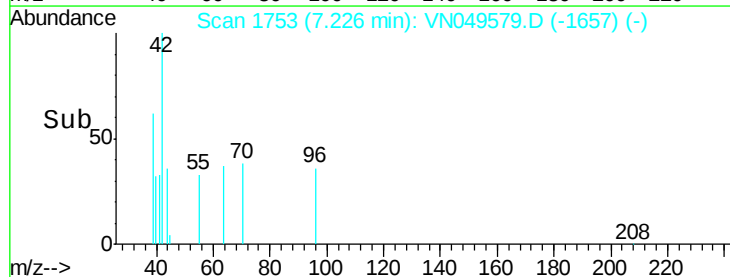
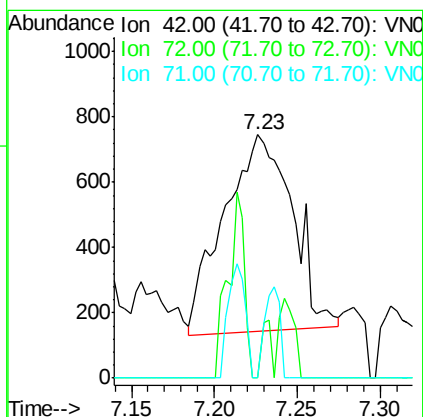
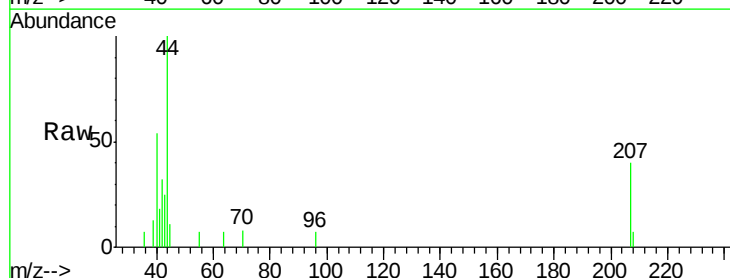
Instrument :
MSVOA_N
ClientSampled :

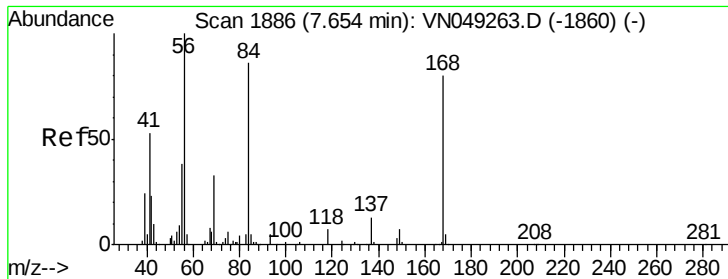
Tot Ion: 43 Resp: 9664
Ion Ratio Lower Upper
43 100
72 29.4 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.55 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Tgt Ion: 42 Resp: 1722
Ion Ratio Lower Upper
42 100
72 3.9 32.2 48.4#
71 10.5 30.5 45.7#

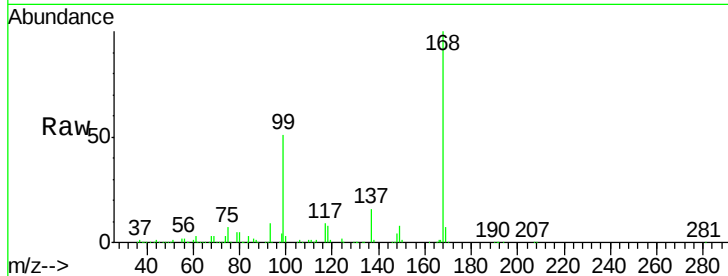




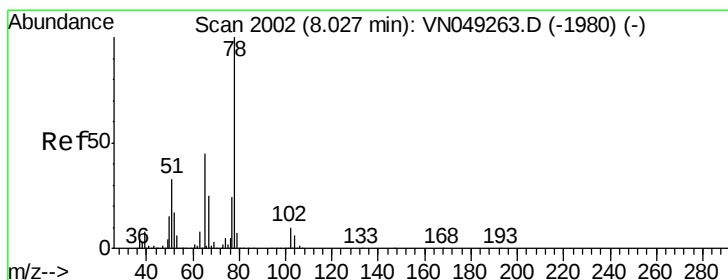
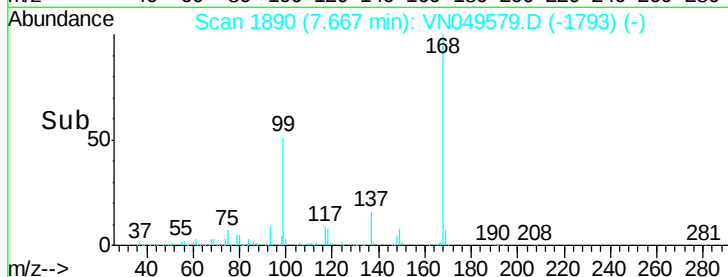
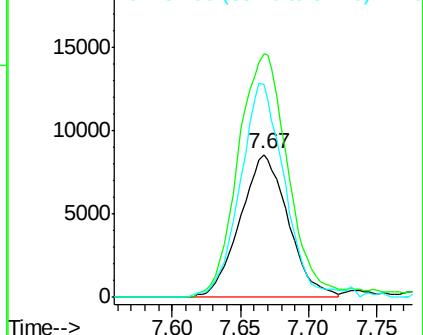
#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	56	Resp	20951
Ion Ratio	Lower	Upper	
56	100		
69	170.5	25.0	37.4#
84	148.7	64.6	96.8#

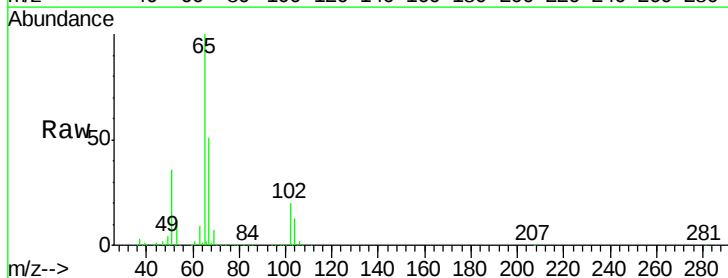


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

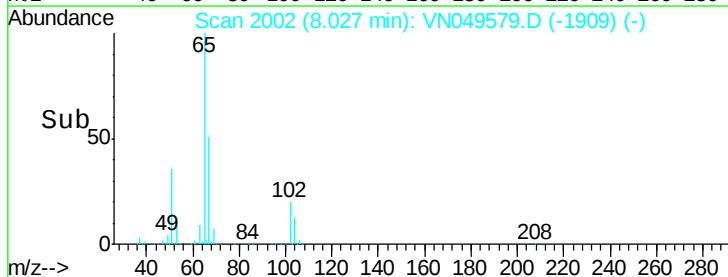
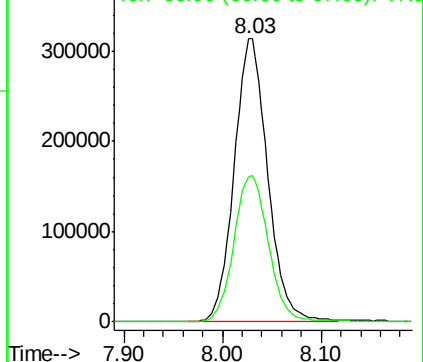


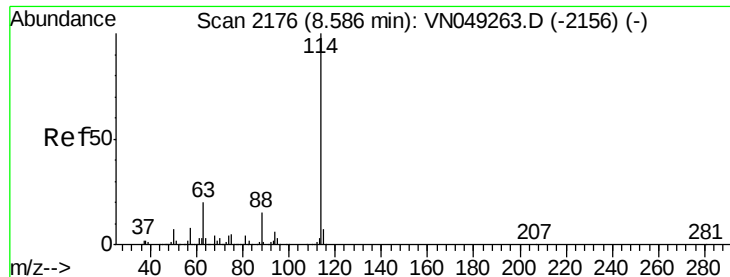
#33
1,2-Dichloroethane-d4
Concen: 49.53 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. -0.00 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Tgt Ion	65	Resp	740259
Ion Ratio	Lower	Upper	
65	100		
67	53.8	0.0	103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

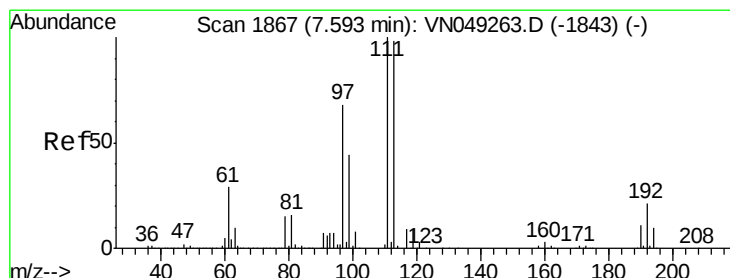
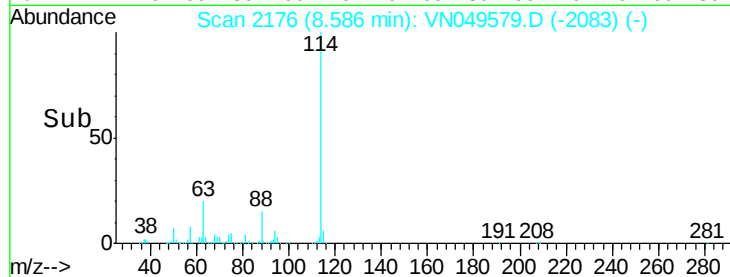
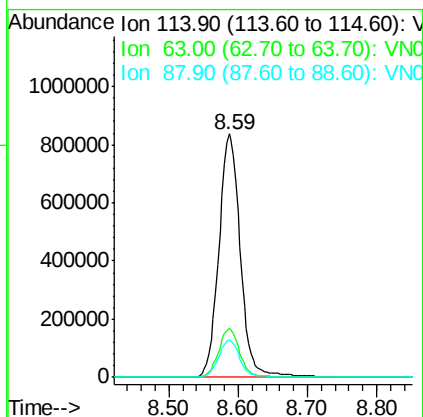
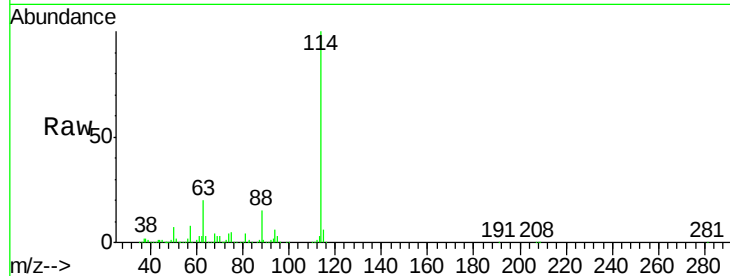




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

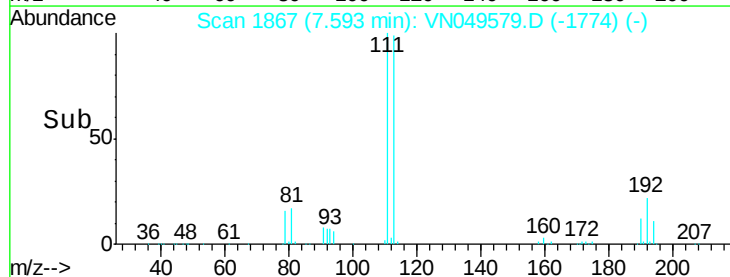
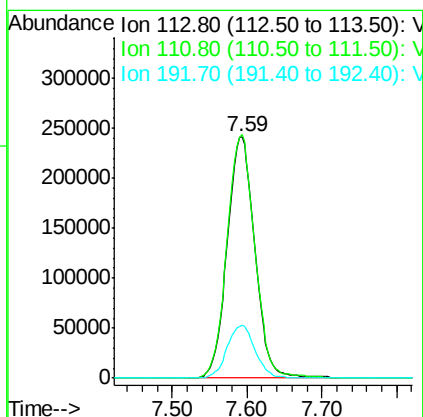
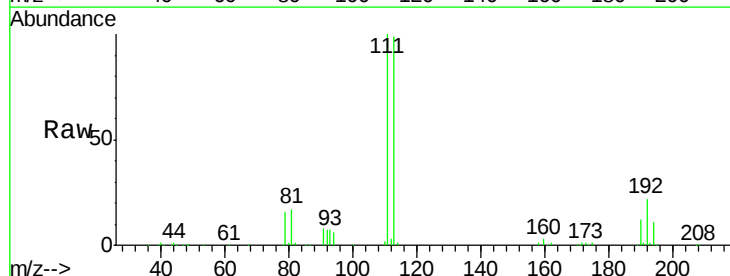
Instrument :
 MSVOA_N
 ClientSampled :

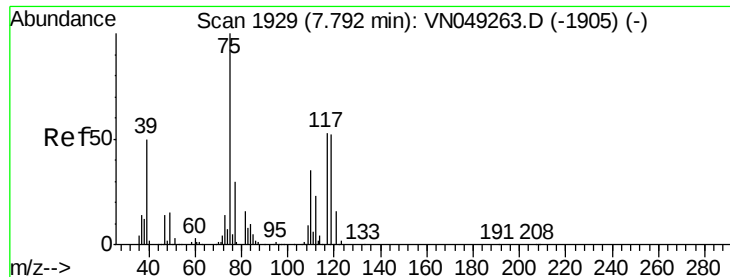
Tot Ion:114 Resp: 1806753
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 44.4
 88 15.5 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 42.38 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Tgt Ion:113 Resp: 619521
 Ion Ratio Lower Upper
 113 100
 111 100.8 82.4 123.6
 192 22.2 15.0 22.6

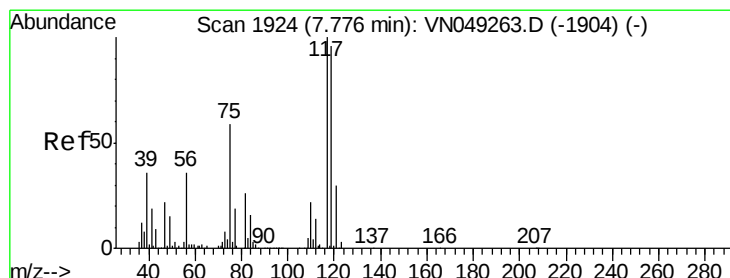
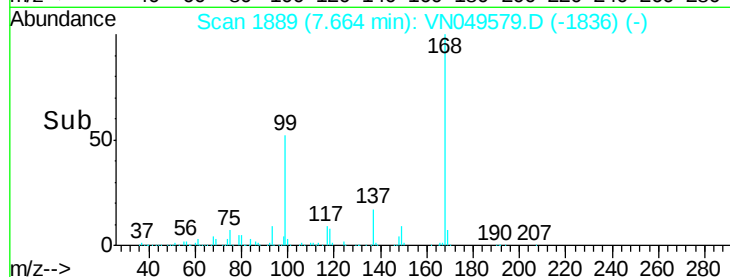
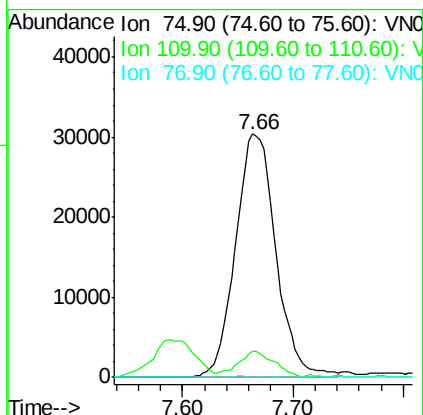
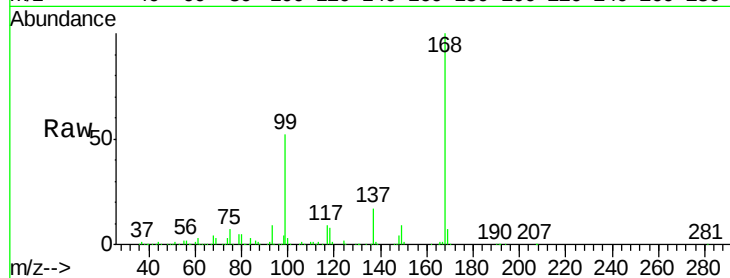




#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

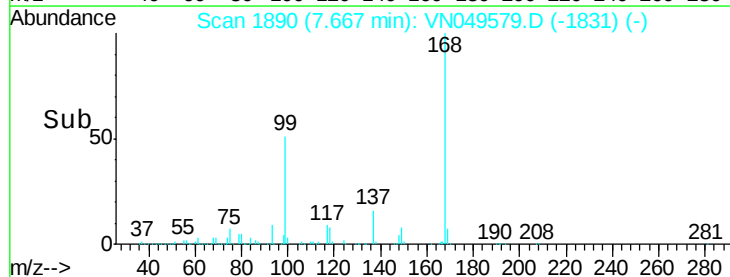
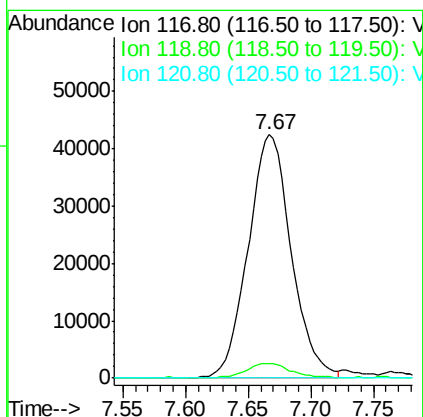
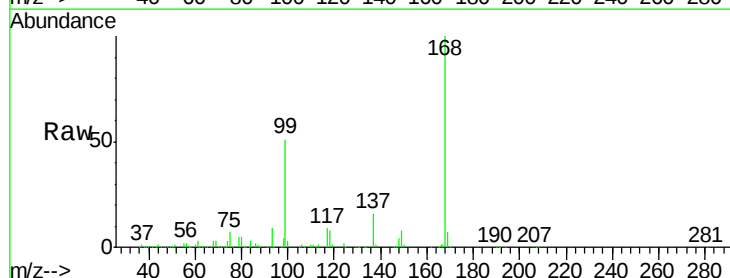
Instrument :
 MSVOA_N
 ClientSampleId :

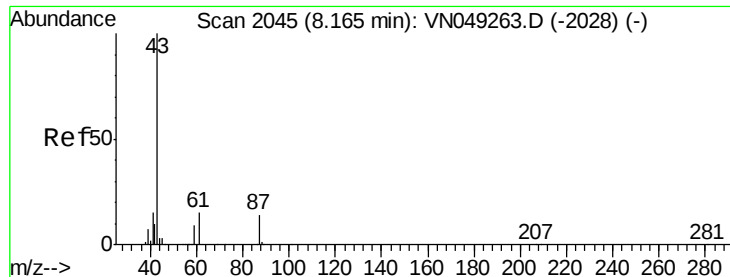
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.0	50.9#
77	0.1	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.73 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.6	113.4#
121	0.0	24.7	37.1#



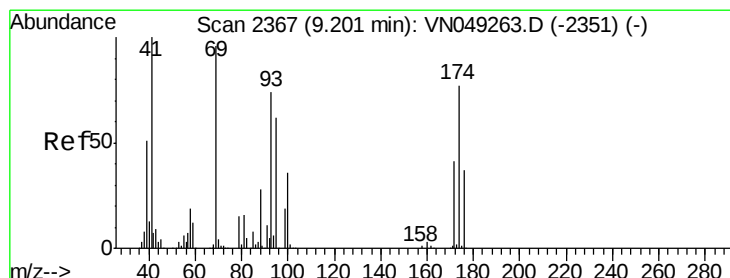
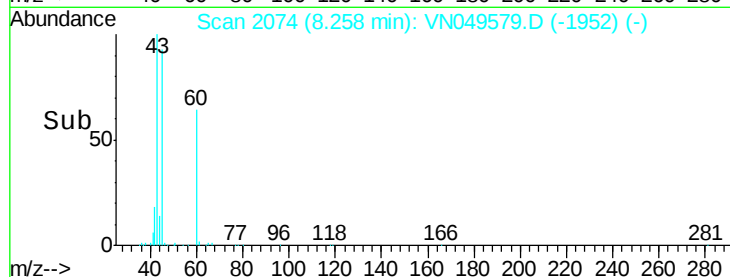
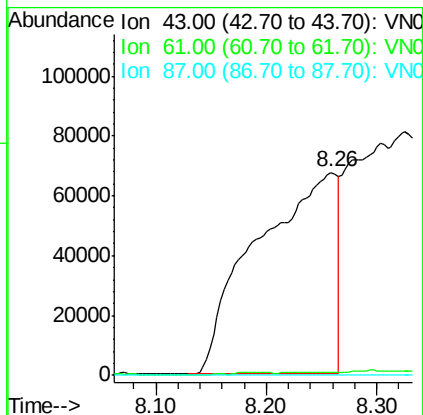
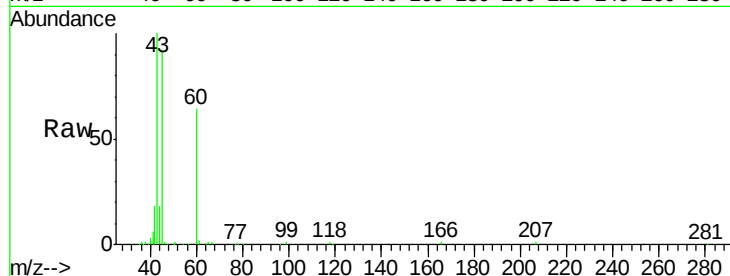


#43

Isopropyl Acetate
 Concen: 15.68 ug/l
 RT: 8.26 min Scan# 2074
 Delta R.T. 0.09 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Instrument :
 MSVOA_N
 ClientSampled :

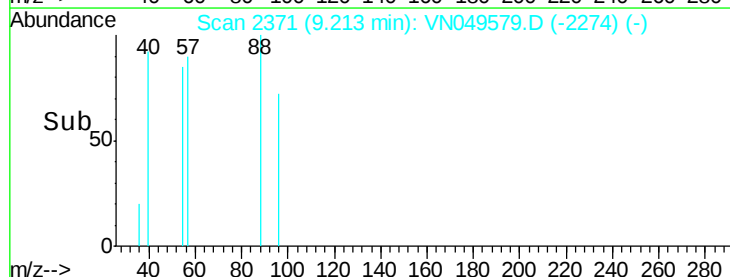
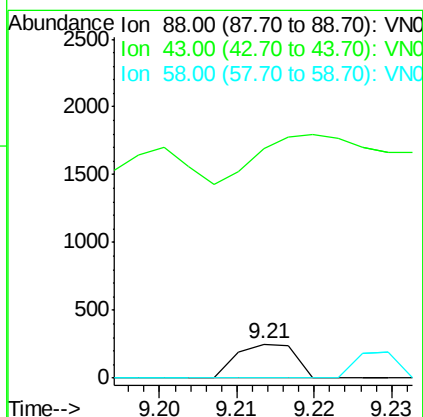
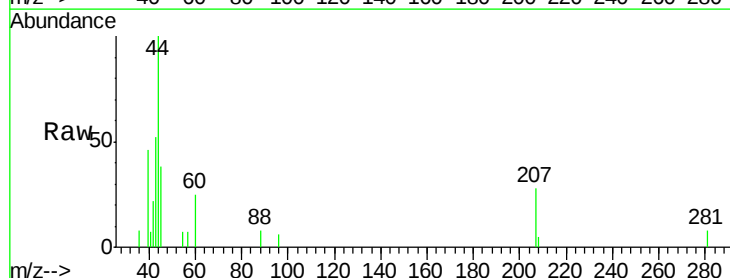
Tot Ion: 43 Resp: 337320
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.2 21.4#
 87 0.0 9.4 14.0#

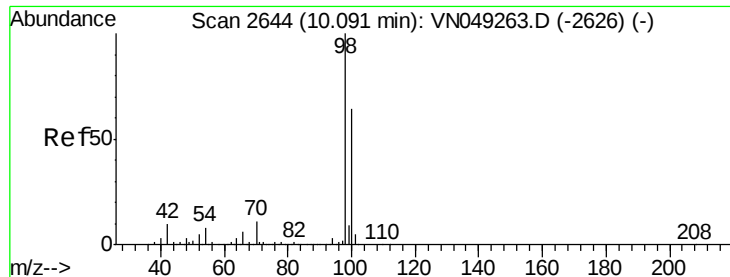


#49

1,4-Dioxane
 Concen: 0.94 ug/l
 RT: 9.21 min Scan# 2371
 Delta R.T. 0.01 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Tgt Ion: 88 Resp: 131
 Ion Ratio Lower Upper
 88 100
 43 345.0 30.9 46.3#
 58 55.7 58.9 88.3#





#50

Toluene-d8

Concen: 43.59 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

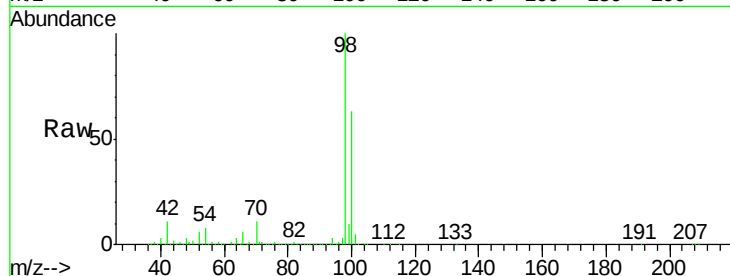
ClientSampled :

Tot Ion: 98 Resp: 2426019

Ion Ratio Lower Upper

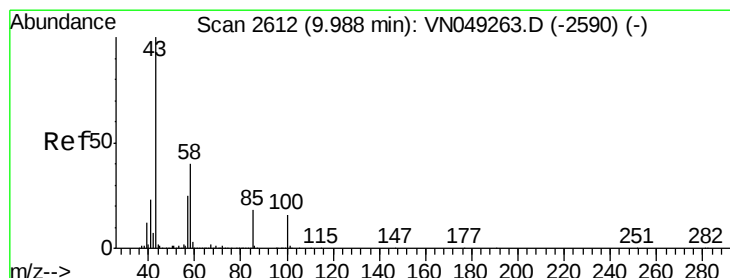
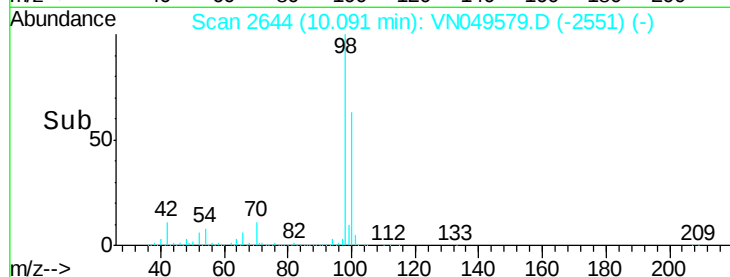
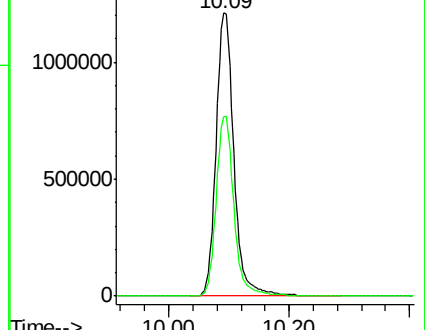
98 100

100 63.5 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.57 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN049579.D

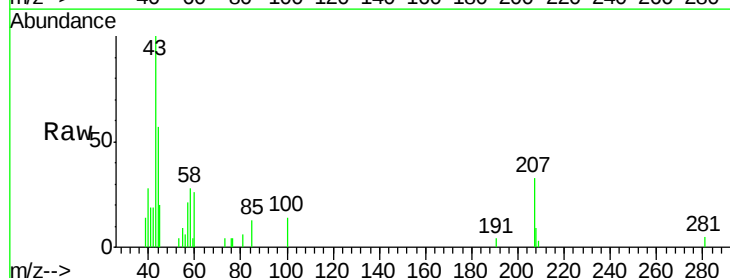
Acq: 27 Jun 2018 18:14

Tgt Ion: 43 Resp: 6397

Ion Ratio Lower Upper

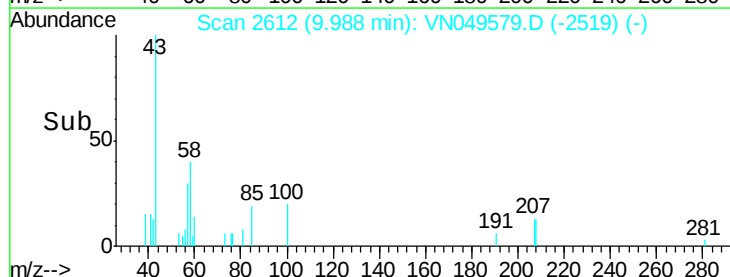
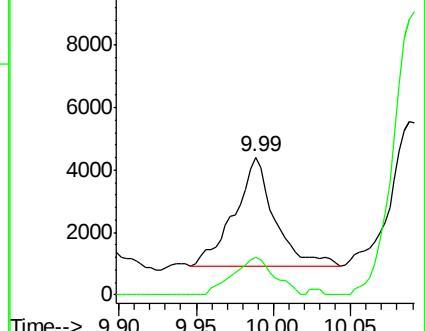
43 100

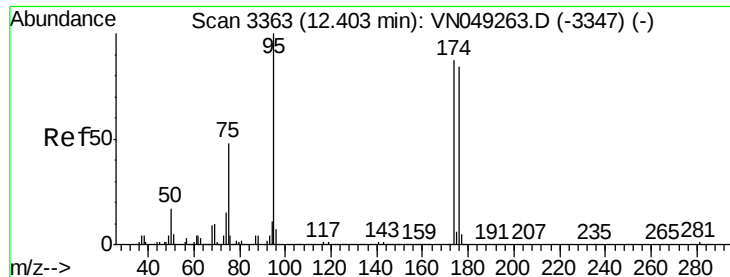
58 35.1 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)





#62

4-Bromofluorobenzene

Concen: 38.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

ClientSampled :

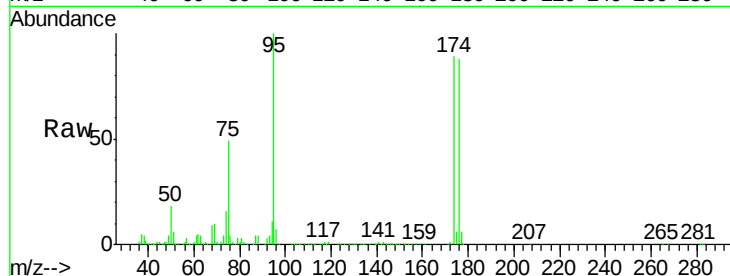
Tot Ion: 95 Resp: 700188

Ion Ratio Lower Upper

95 100

174 89.6 0.0 165.6

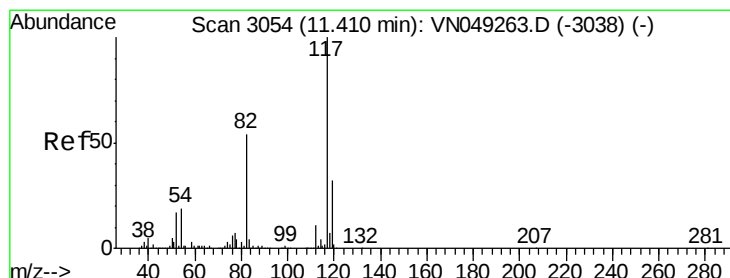
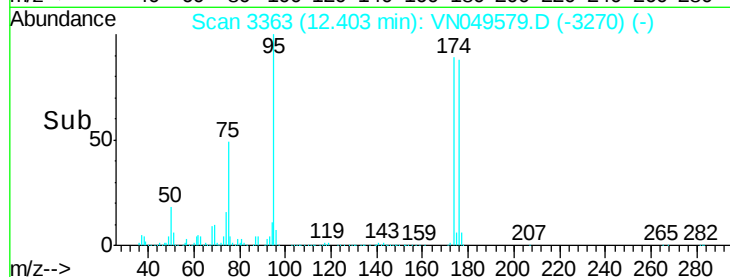
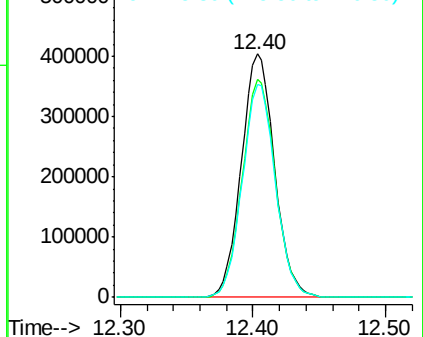
176 87.4 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

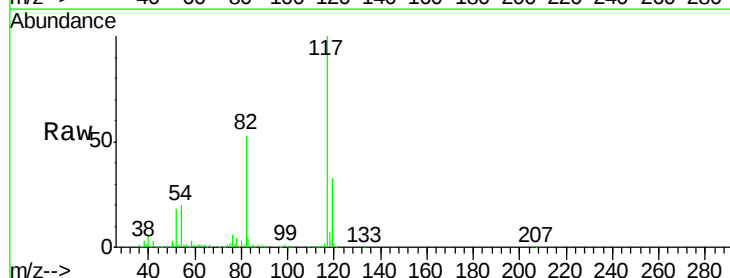
Tgt Ion: 117 Resp: 1486270

Ion Ratio Lower Upper

117 100

82 52.9 45.9 68.9

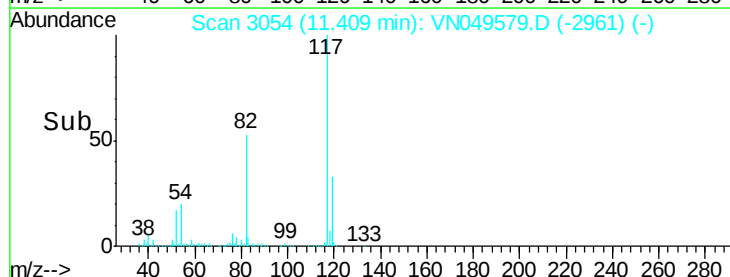
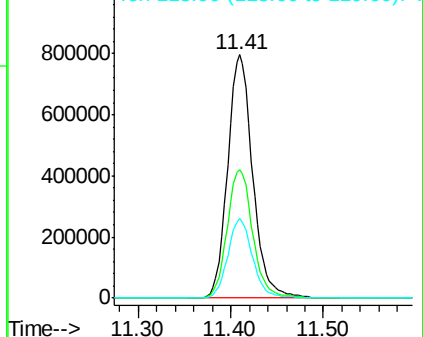
119 32.6 25.5 38.3

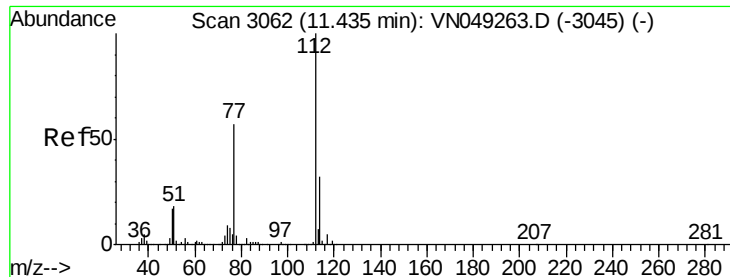


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#65

Chlorobenzene

Concen: 0.48 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

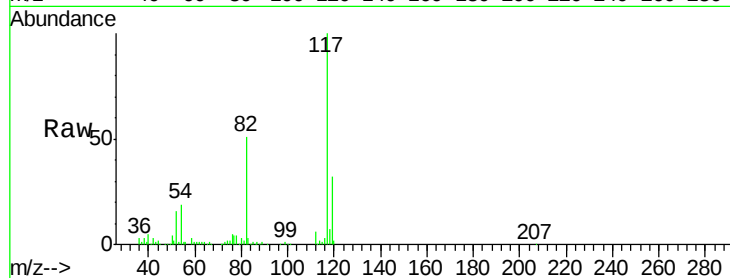
ClientSampled :

Tot Ion:112 Resp: 18423

Ion Ratio Lower Upper

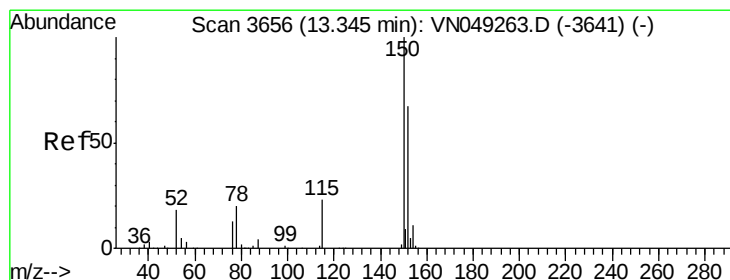
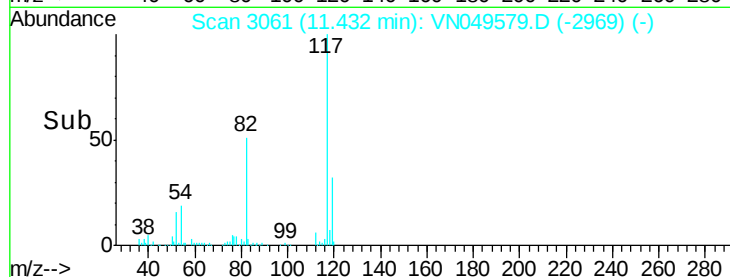
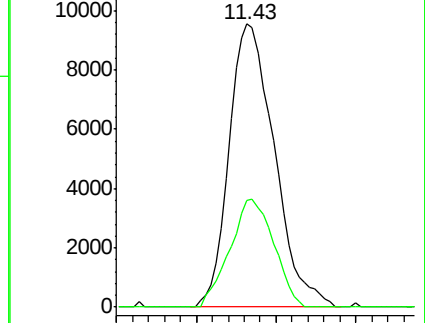
112 100

114 37.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

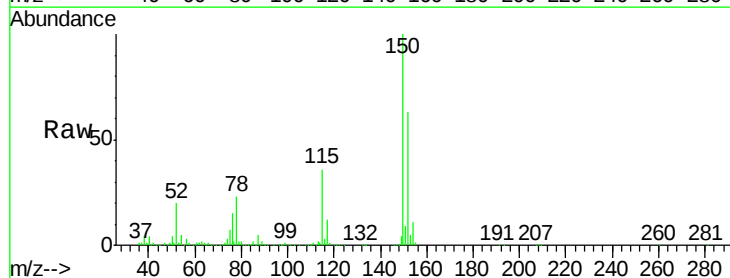
Tgt Ion:152 Resp: 595026

Ion Ratio Lower Upper

152 100

115 55.7 28.7 86.1

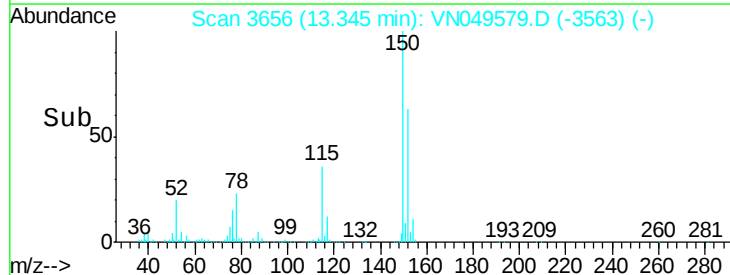
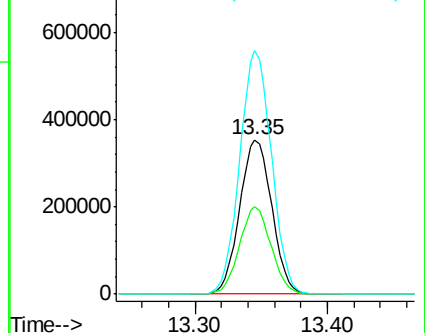
150 156.2 0.0 351.0

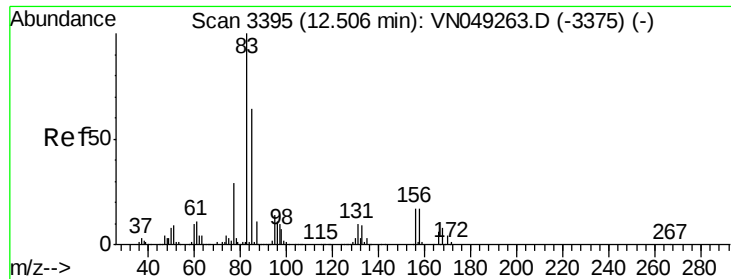


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.49 min Scan# 3390

Delta R.T. -0.02 min

Lab File: VN049579.D

Acq: 27 Jun 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

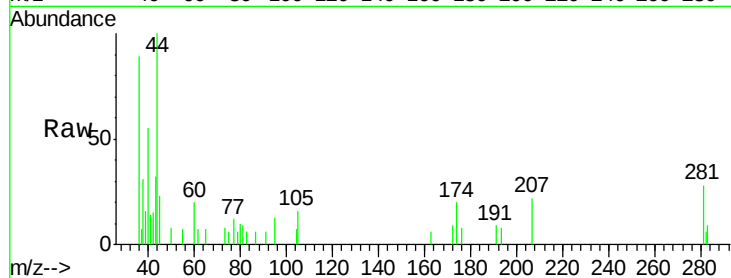
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

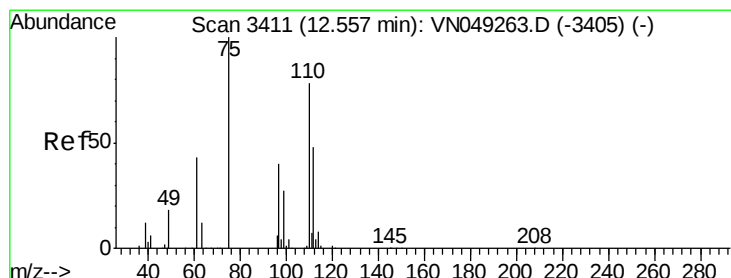
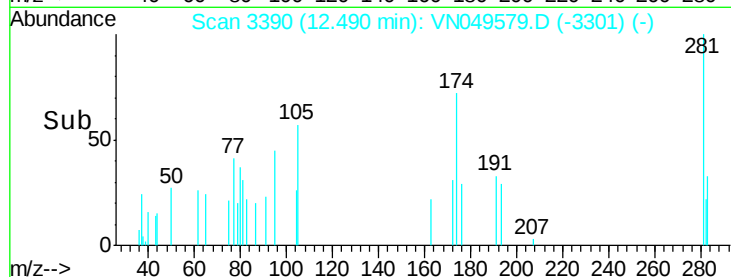
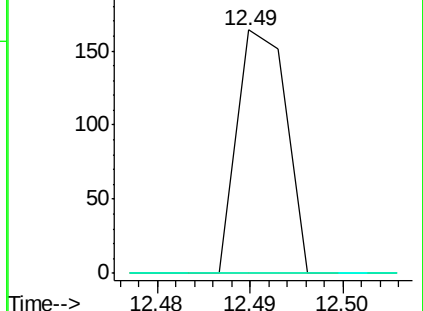
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 33.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049579.D

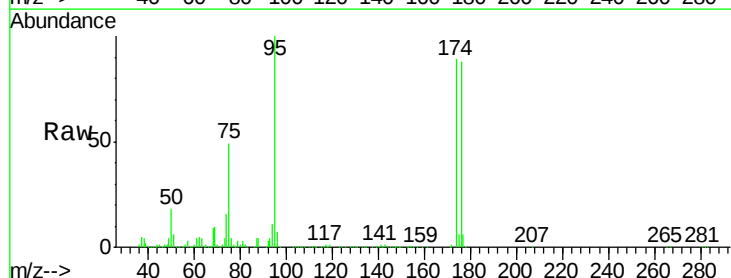
Acq: 27 Jun 2018 18:14

Tgt Ion: 75 Resp: 341291

Ion Ratio Lower Upper

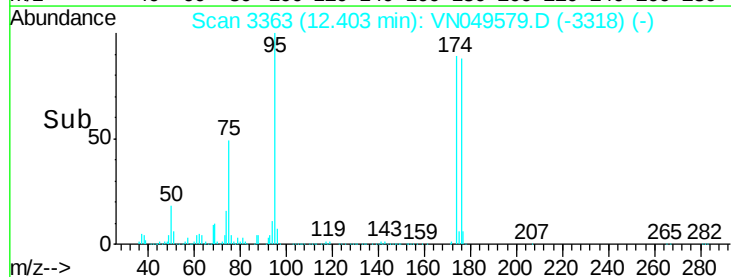
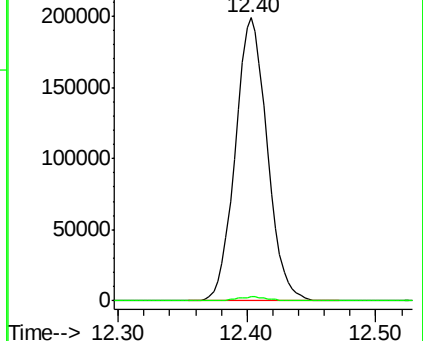
75 100

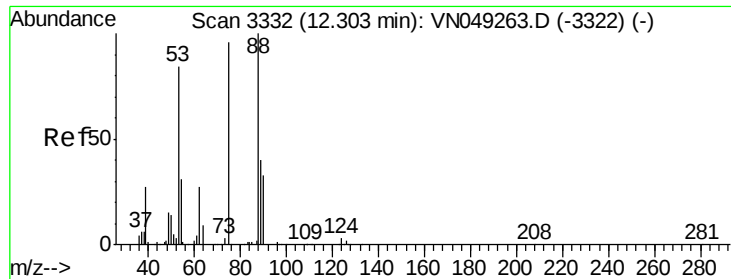
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

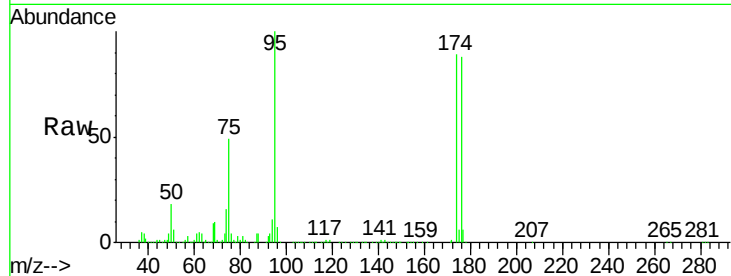




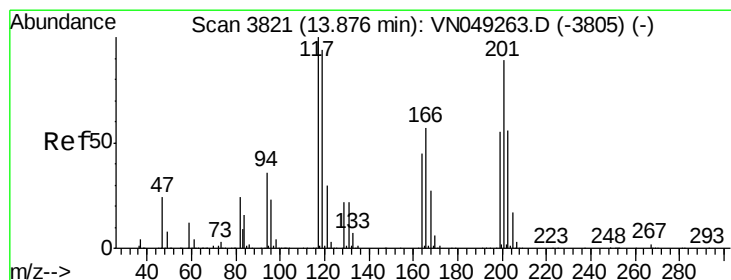
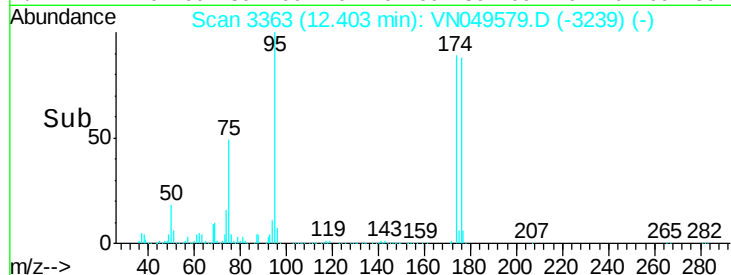
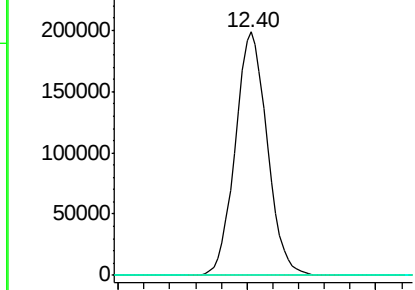
#81
trans-1,4-Dichloro-2-butene
Concen: 106.24 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 341291
Ion Ratio Lower Upper
75 100
53 0.3 82.7 124.1#
89 0.0 36.5 54.7#

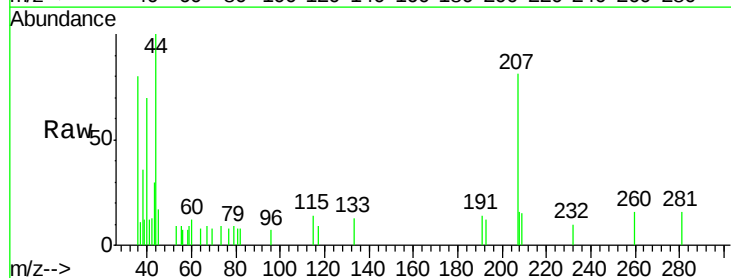


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

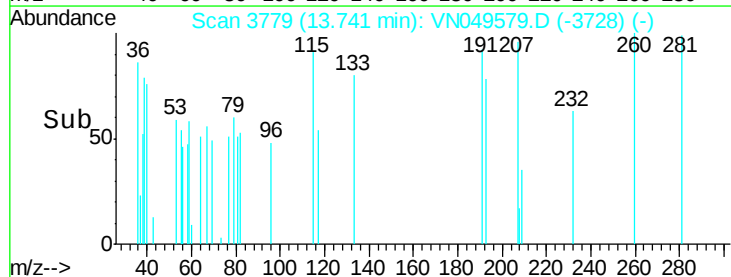
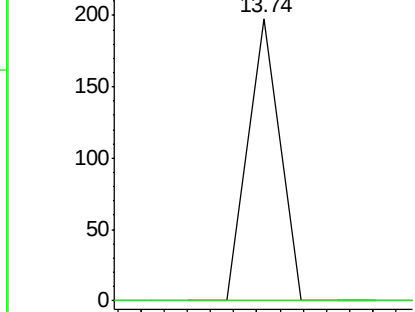


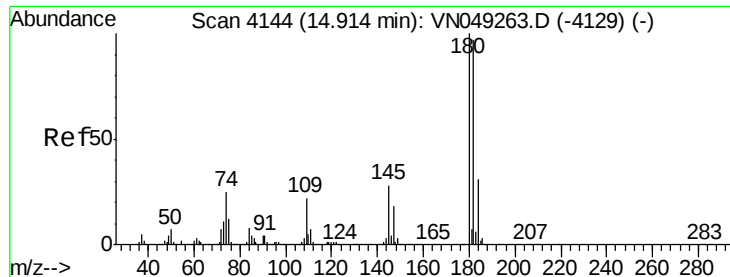
#90
Hexachloroethane
Concen: Below Cal
RT: 13.74 min Scan# 3779
Delta R.T. -0.13 min
Lab File: VN049579.D
Acq: 27 Jun 2018 18:14

Tgt Ion: 117 Resp: 38
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

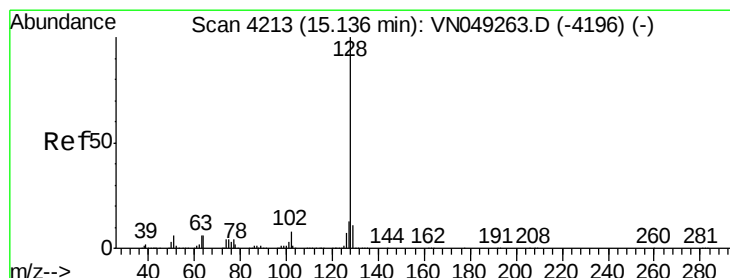
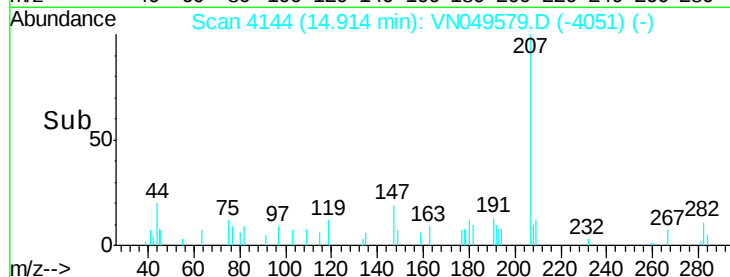
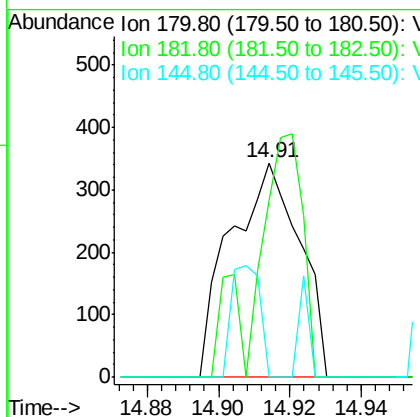
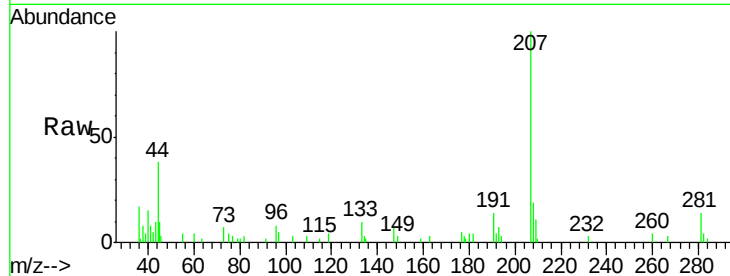




#93
 1,2,4-Trichlorobenzene
 Concen: 4.78 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

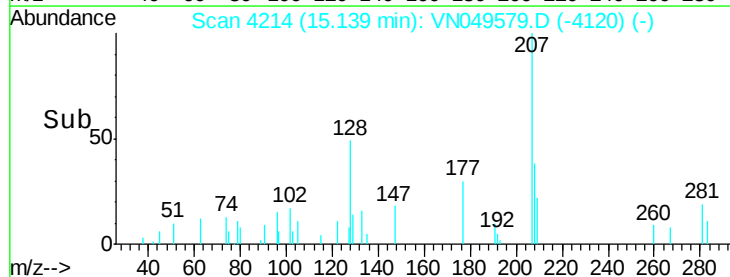
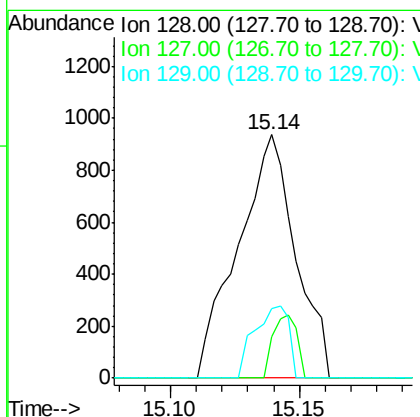
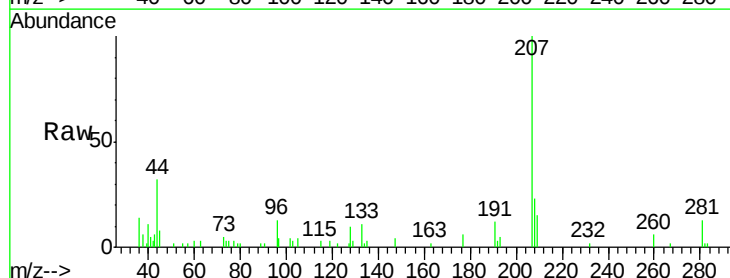
Instrument :
 MSVOA_N
 ClientSampled :

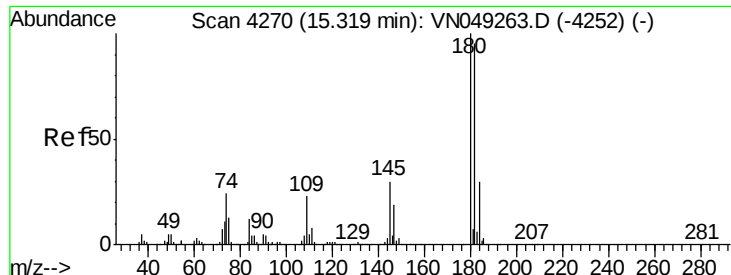
Tot Ion:180 Resp: 461
 Ion Ratio Lower Upper
 180 100
 182 62.3 46.9 140.8
 145 6.7 14.7 44.1#



#95
 Naphthalene
 Concen: 2.17 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Tgt Ion:128 Resp: 1453
 Ion Ratio Lower Upper
 128 100
 127 10.9 10.6 16.0
 129 17.8 8.5 12.7#

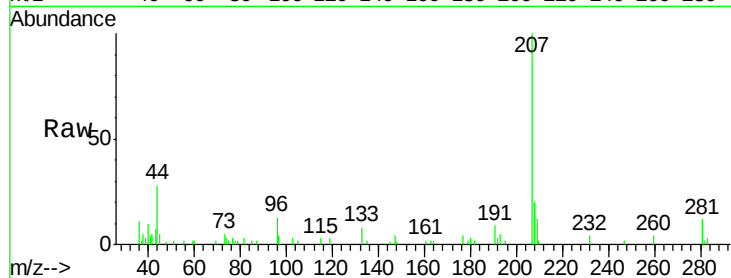




#96
 1,2,3-Trichlorobenzene
 Concen: 3.48 ug/l
 RT: 15.33 min Scan# 4272
 Delta R.T. 0.01 min
 Lab File: VN049579.D
 Acq: 27 Jun 2018 18:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	164.3	47.3	141.8#
145	59.4	15.6	46.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

