

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062018\
 Data File : VN049452.D
 Acq On : 20 Jun 2018 22:13
 Operator : MD\SY
 Sample : J3594-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 01:36:10 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	1179602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1895091	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1572352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	492216	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	807539	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
35) Dibromofluoromethane	7.59	113	706774	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	10.09	98	2579483	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	
62) 4-Bromofluorobenzene	12.41	95	685243	35.50	ug/l	0.00
Spiked Amount			Recovery	=	71.00%	

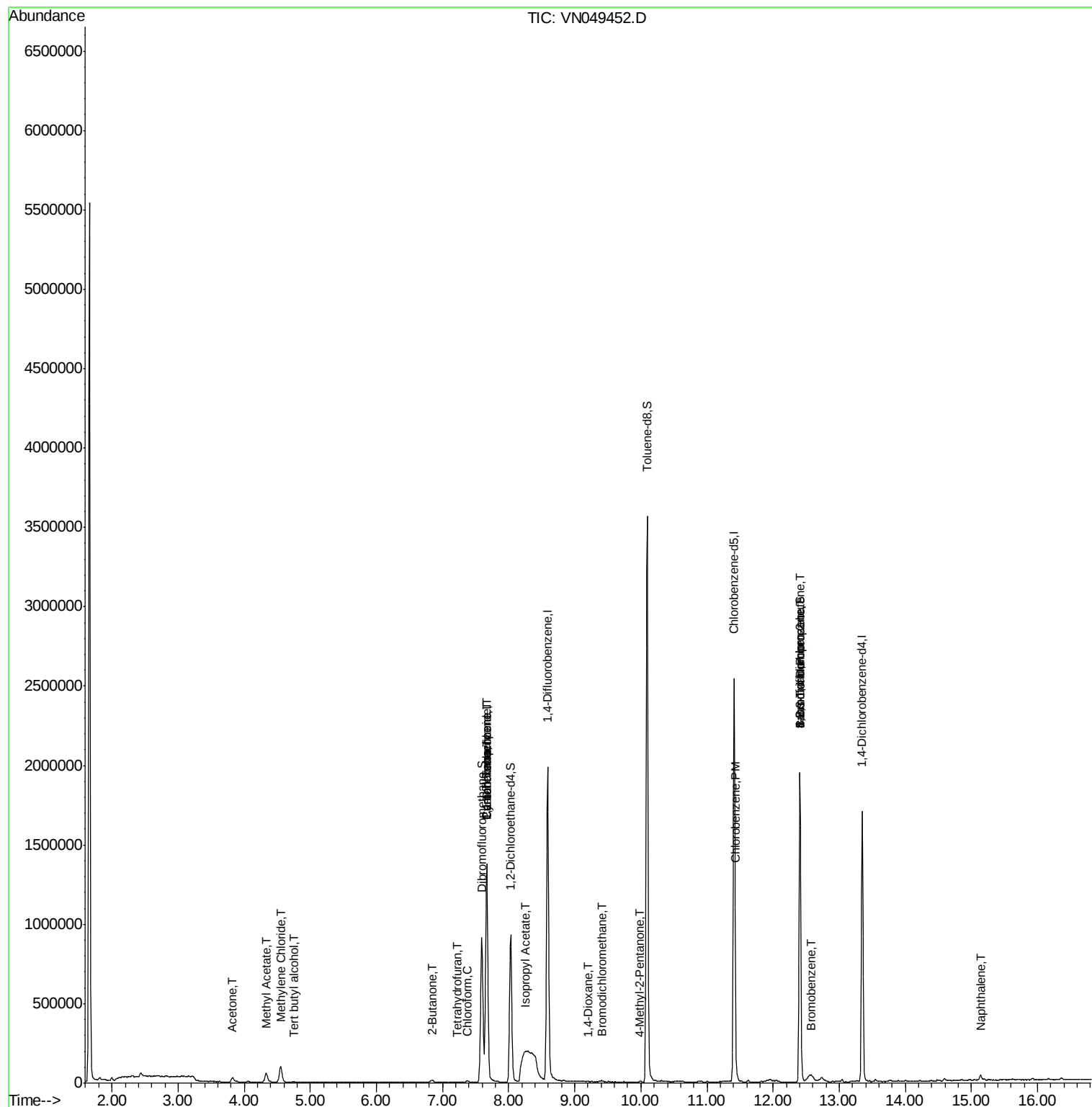
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	1734	1.89	ug/l #	70
16) Acetone	3.82	43	47513	12.51	ug/l #	88
18) Methyl Acetate	4.33	43	112108	9.68	ug/l	96
20) Methylene Chloride	4.55	84	72263	4.55	ug/l	91
25) 2-Butanone	6.84	43	2581	0.51	ug/l	95
29) Tetrahydrofuran	7.22	42	1136	0.35	ug/l #	56
30) Chloroform	7.37	83	10096	0.37	ug/l	97
31) Cyclohexane	7.67	56	22181	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	84715	3.90	ug/l #	50
38) Carbon Tetrachloride	7.67	117	107788	4.79	ug/l #	18
43) Isopropyl Acetate	8.25	43	262488	11.63	ug/l #	64
47) Bromodichloromethane	9.40	83	4456	0.20	ug/l #	98
49) 1,4-Dioxane	9.21	88	120	0.82	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2970	0.25	ug/l #	78
65) Chlorobenzene	11.44	112	11301	0.28	ug/l	97
71) Bromoform	12.41	173	3584	0.36	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	501	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	334254	39.80	ug/l #	100
77) Bromobenzene	12.57	156	61056	5.35	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.41	75	334254	125.79	ug/l #	9
90) Hexachloroethane	13.89	117	270	Below Cal	#	9
95) Naphthalene	15.14	128	29124	4.20	ug/l	96

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

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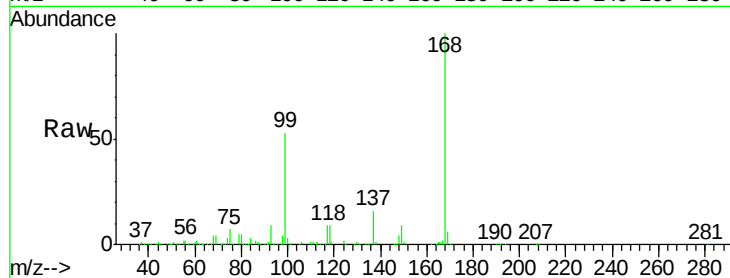


#1

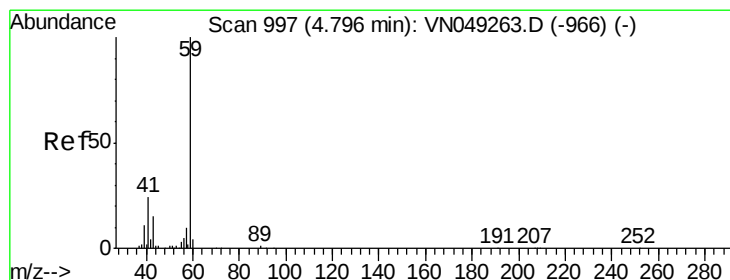
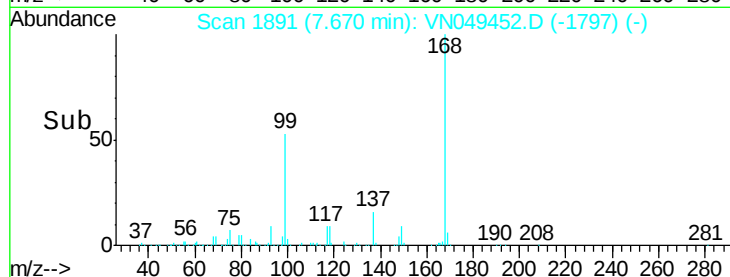
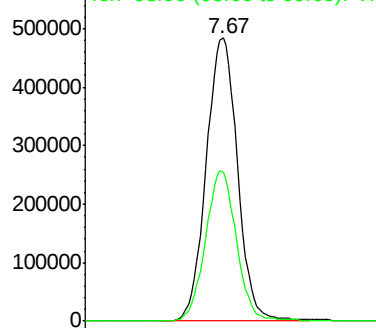
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. 0.00 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:168 Resp: 1179602
 Ion Ratio Lower Upper
 168 100
 99 52.5 45.8 68.6



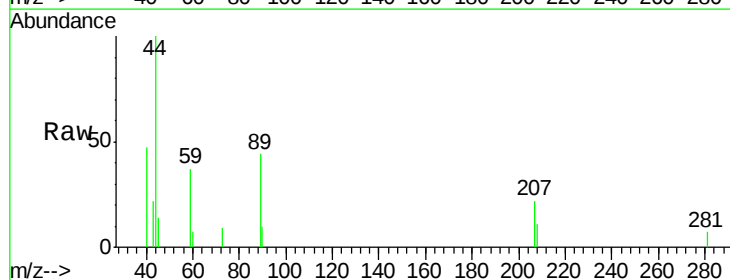
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VN0



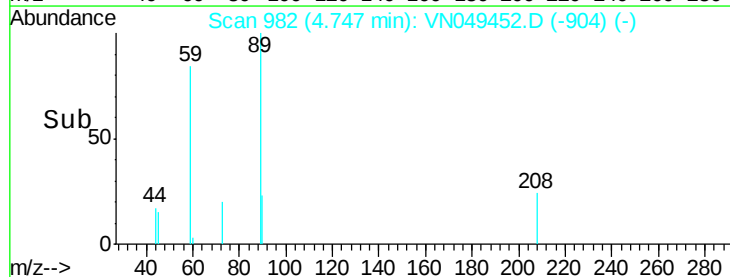
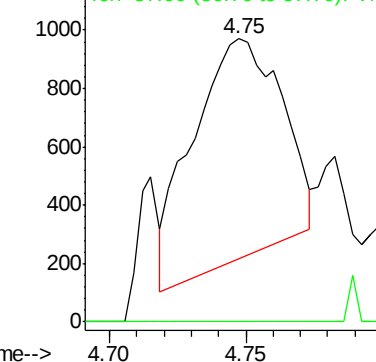
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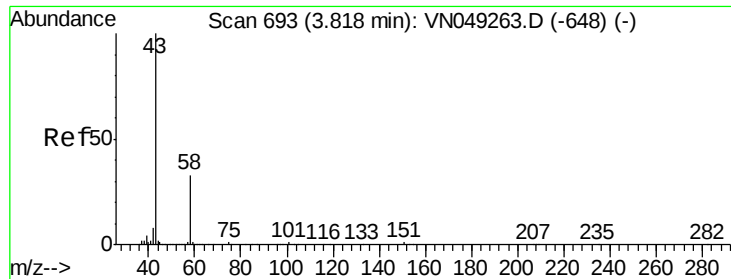
Tert butyl alcohol
 Concen: 1.89 ug/l
 RT: 4.75 min Scan# 982
 Delta R.T. -0.05 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Tgt Ion: 59 Resp: 1734
 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





#16

Acetone

Concen: 12.51 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

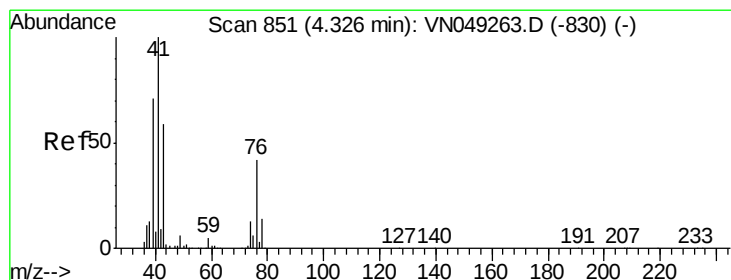
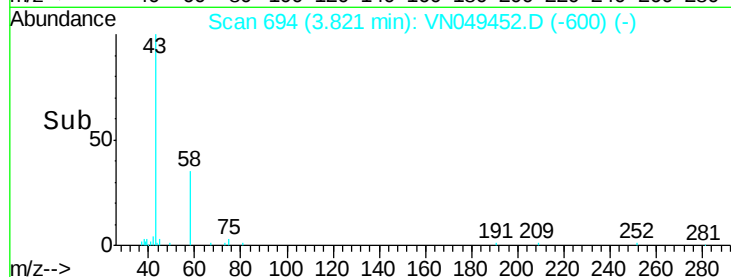
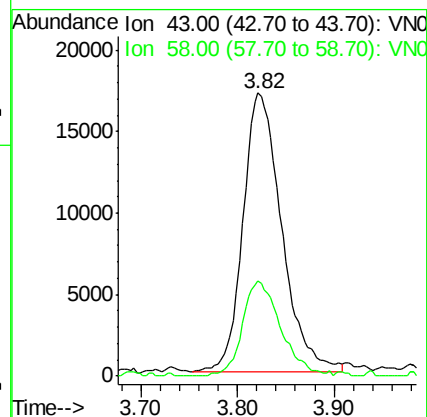
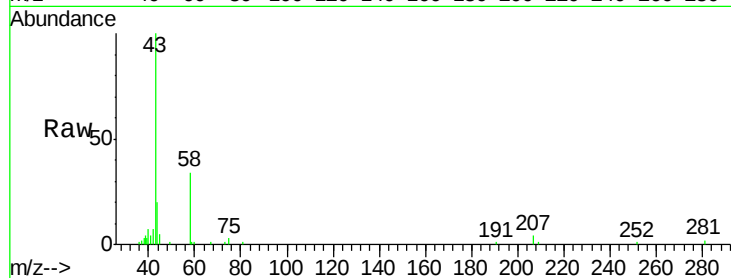
ClientSampled :

Tot Ion: 43 Resp: 47513

Ion Ratio Lower Upper

43 100

58 34.3 22.4 33.6#



#18

Methyl Acetate

Concen: 9.68 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049452.D

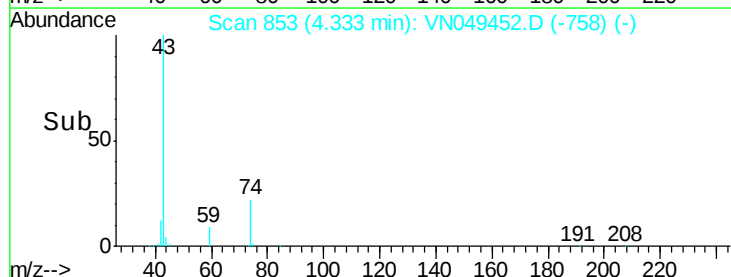
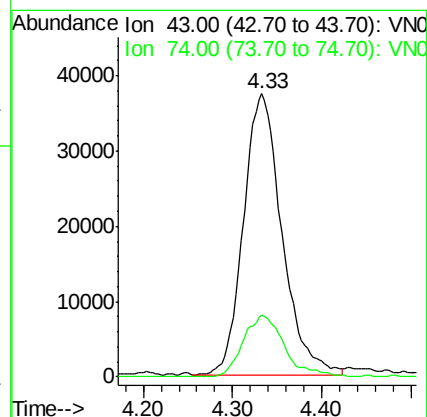
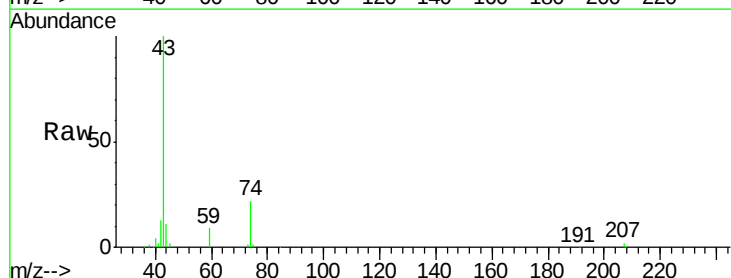
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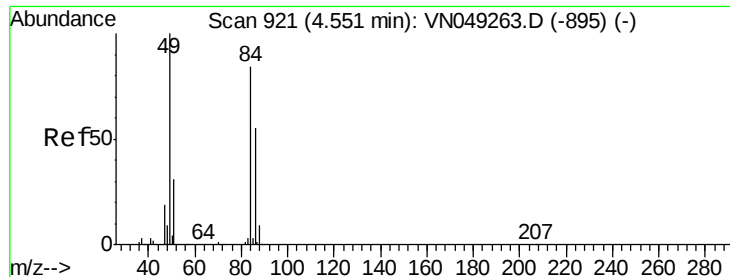
Tgt Ion: 43 Resp: 112108

Ion Ratio Lower Upper

43 100

74 23.4 17.4 26.0

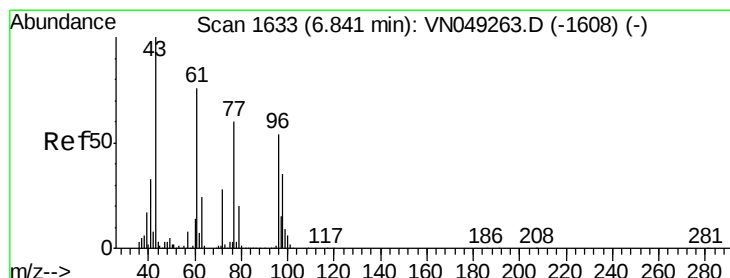
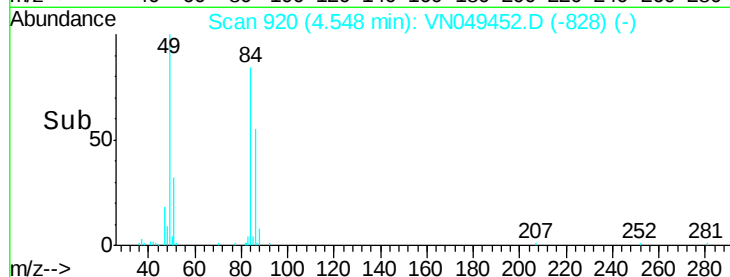
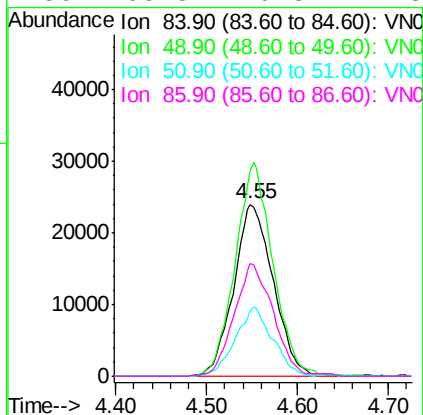
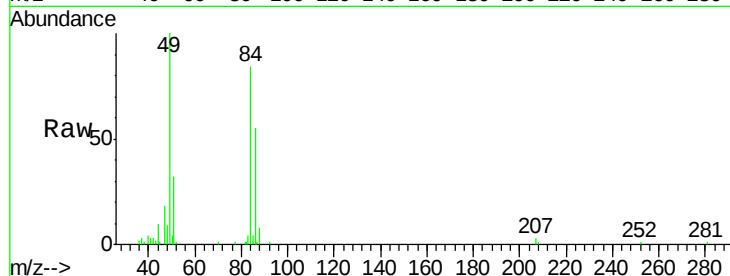




#20
Methylene Chloride
Concen: 4.55 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

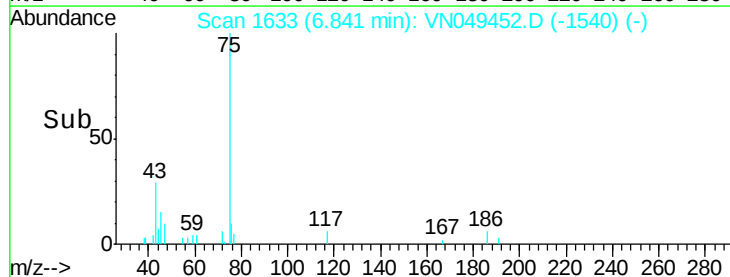
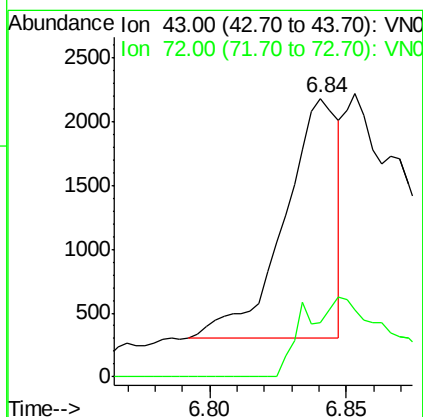
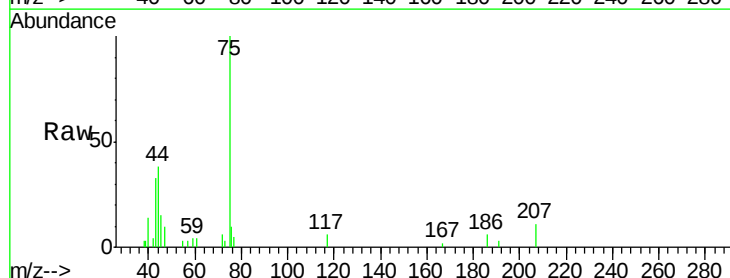
Instrument :
MSVOA_N
ClientSampleId :

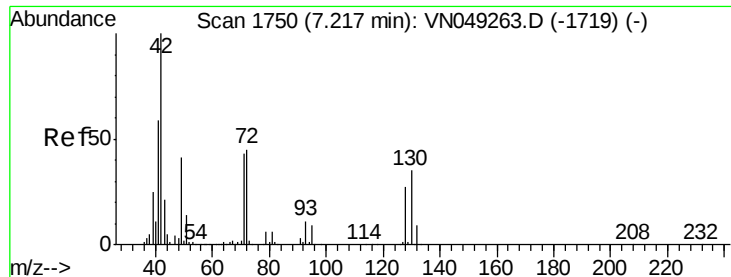
Tot Ion: 84 Resp: 72263
Ion Ratio Lower Upper
84 100
49 119.4 106.9 160.3
51 37.8 32.7 49.1
86 65.3 49.8 74.8



#25
2-Butanone
Concen: 0.51 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Tgt Ion: 43 Resp: 2581
Ion Ratio Lower Upper
43 100
72 22.5 20.2 30.2

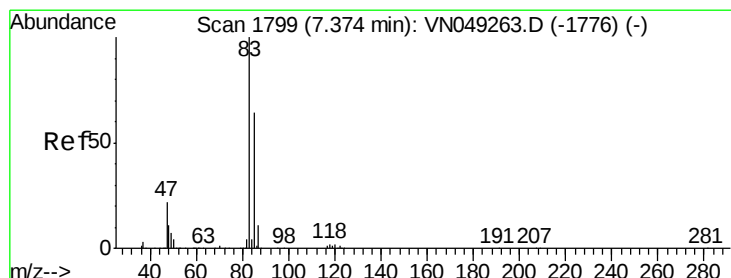
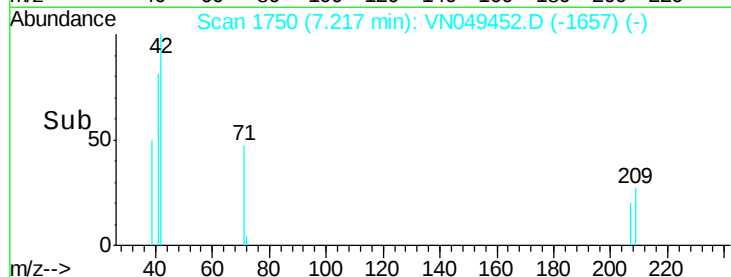
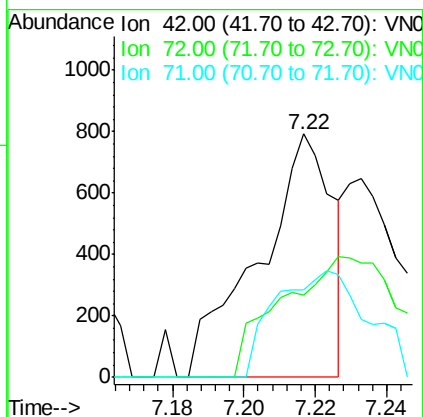
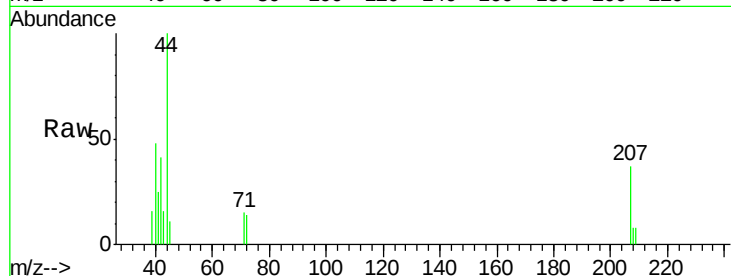




#29
Tetrahydrofuran
Concen: 0.35 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

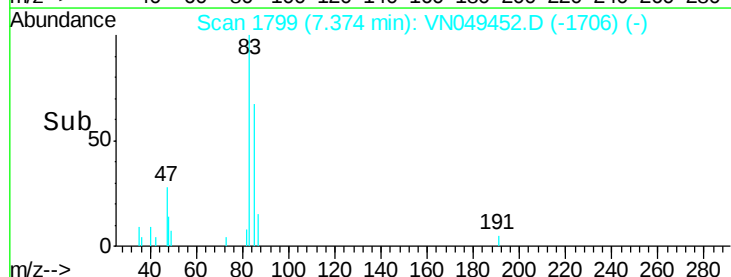
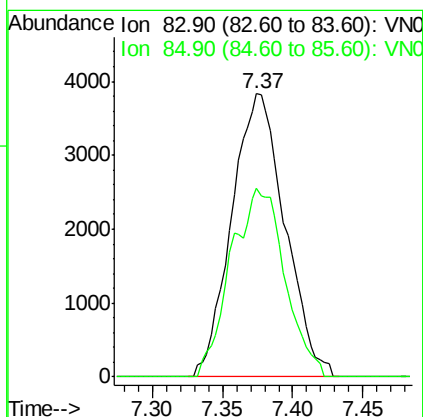
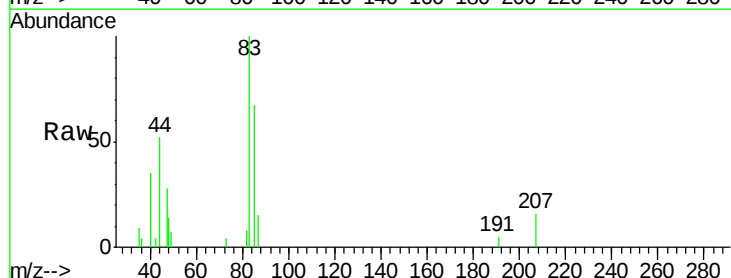
Instrument :
MSVOA_N
ClientSampled :

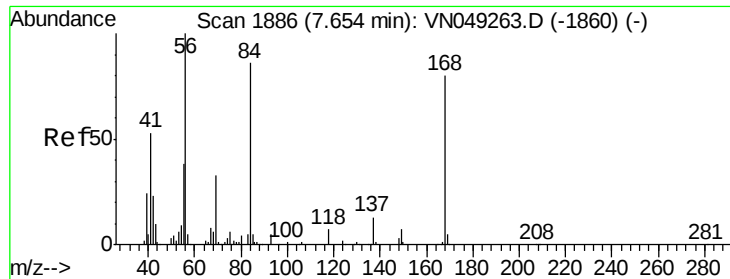
Tot Ion: 42 Resp: 1136
Ion Ratio Lower Upper
42 100
72 76.8 32.2 48.4#
71 54.6 30.5 45.7#



#30
Chloroform
Concen: 0.37 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Tgt Ion: 83 Resp: 10096
Ion Ratio Lower Upper
83 100
85 66.7 51.7 77.5

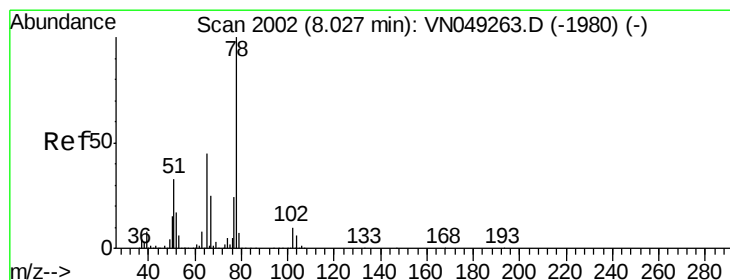
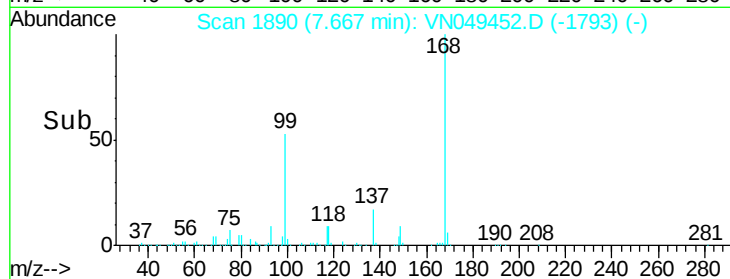
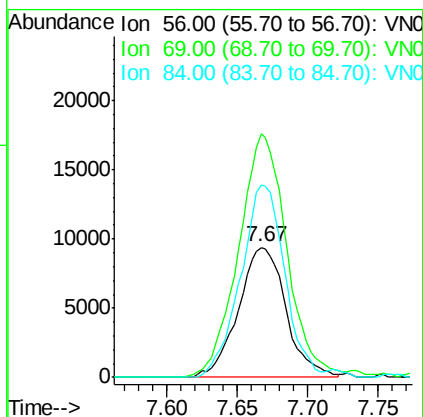
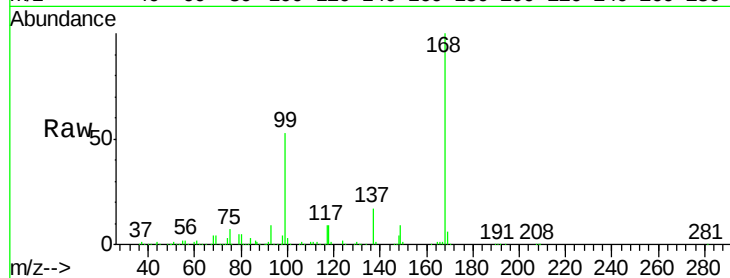




#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

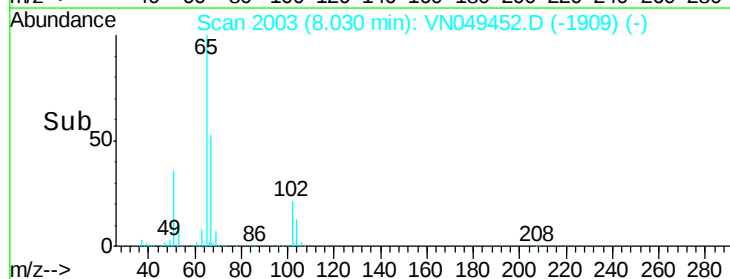
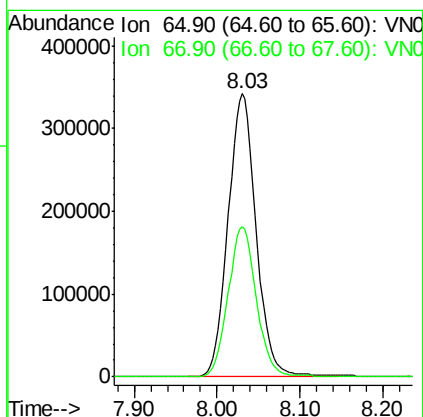
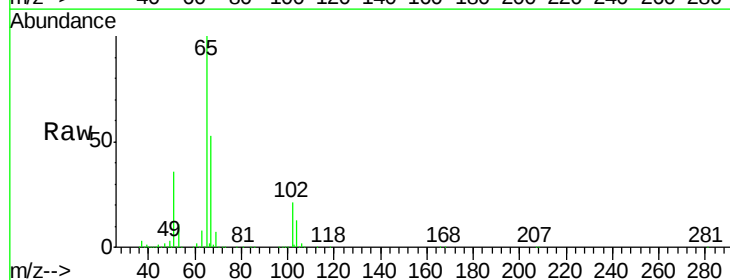
Instrument :
MSVOA_N
ClientSampled :

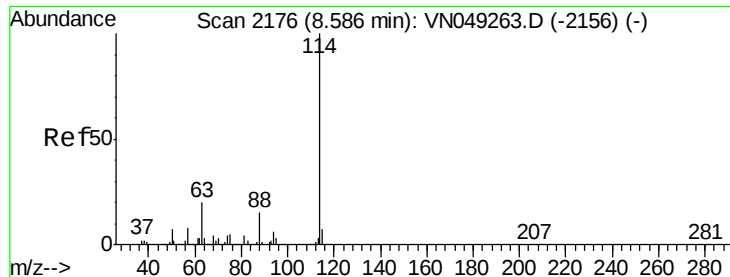
Tot Ion: 56 Resp: 22181
Ion Ratio Lower Upper
56 100
69 185.1 25.0 37.4#
84 147.3 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 51.61 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Tgt Ion: 65 Resp: 807539
Ion Ratio Lower Upper
65 100
67 53.3 0.0 103.8

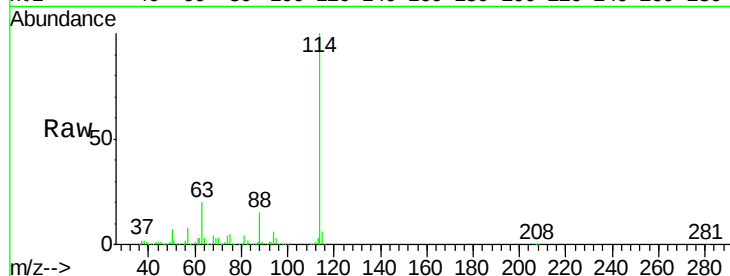




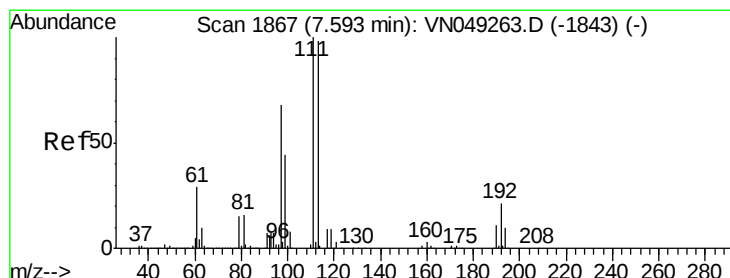
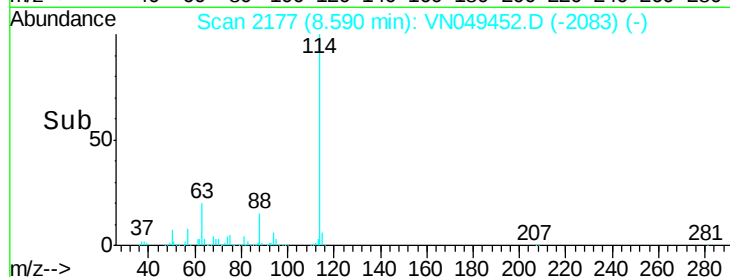
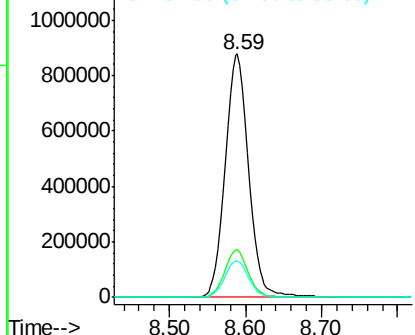
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1895091
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 44.4
 88 15.1 0.0 31.4

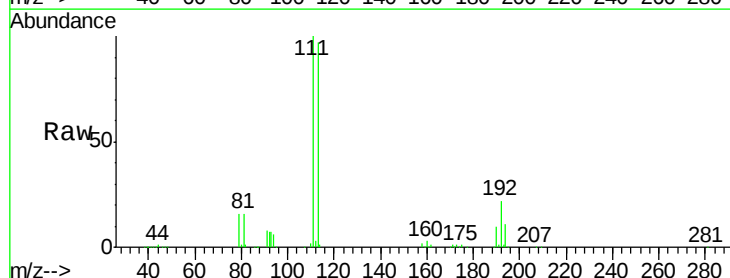


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

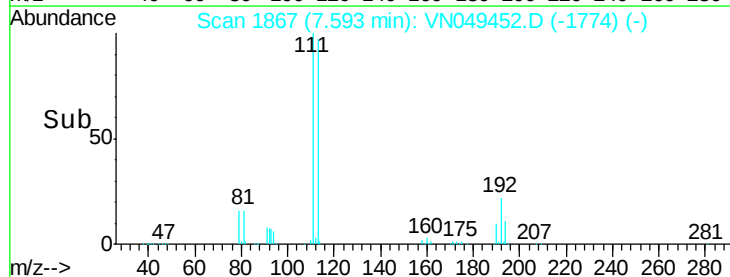
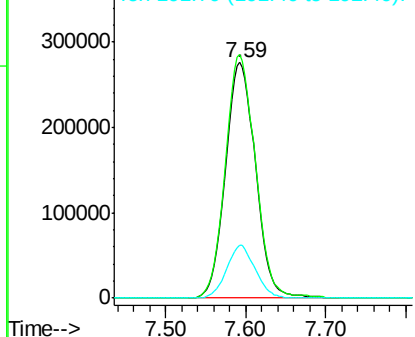


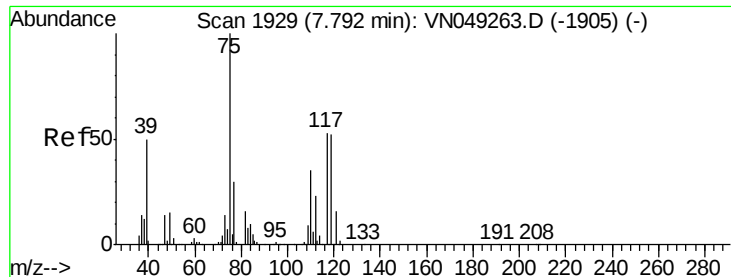
#35
 Dibromofluoromethane
 Concen: 46.10 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Tgt Ion:113 Resp: 706774
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.4 123.6
 192 21.5 15.0 22.6



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: 3.90 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

ClientSampleId :

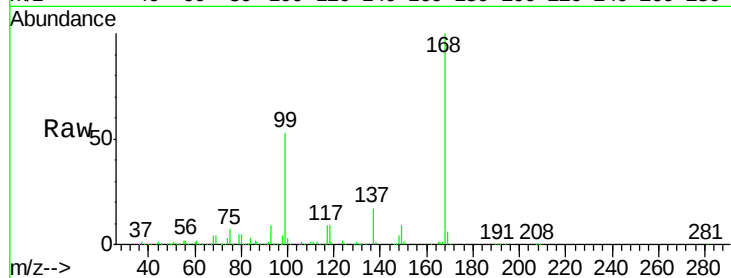
Tot Ion: 75 Resp: 84715

Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.0 24.4 36.6#

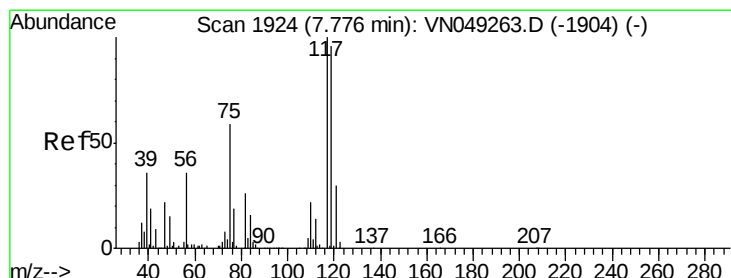
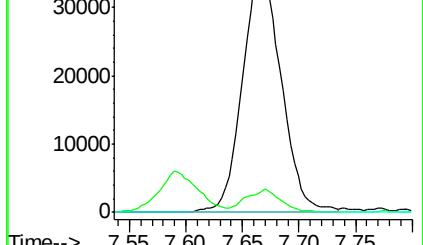
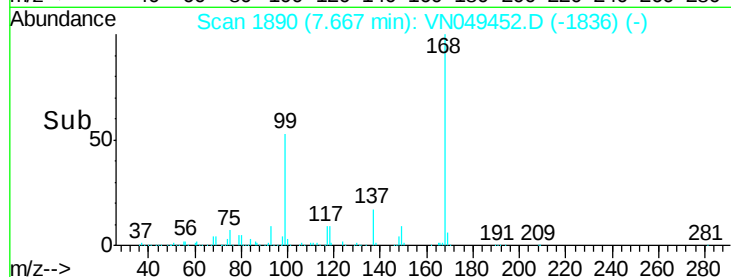


Abundance Ion 74.90 (74.60 to 75.60): VN049452.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049452.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049452.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

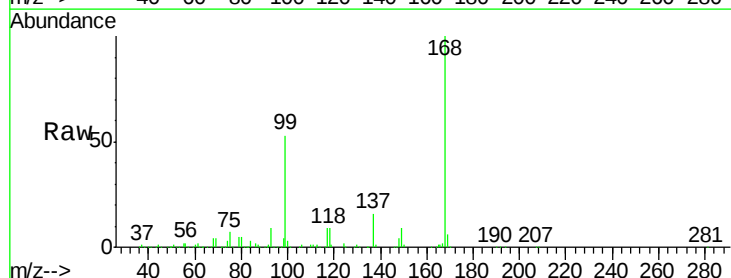
Tgt Ion: 117 Resp: 107788

Ion Ratio Lower Upper

117 100

119 6.4 75.6 113.4#

121 0.0 24.7 37.1#

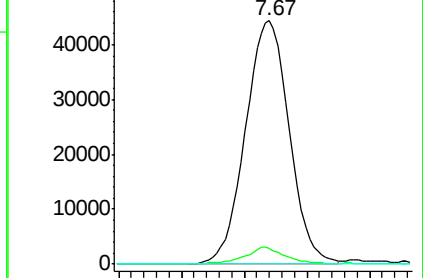
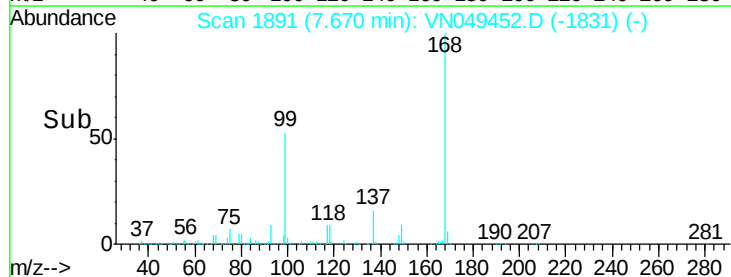


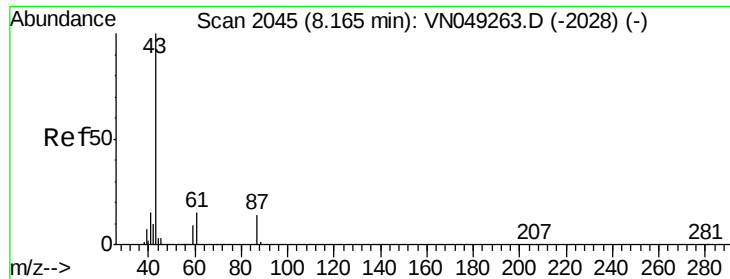
Abundance Ion 116.80 (116.50 to 117.50): VN049452.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049452.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049452.D (-1831) (-)

Time-->



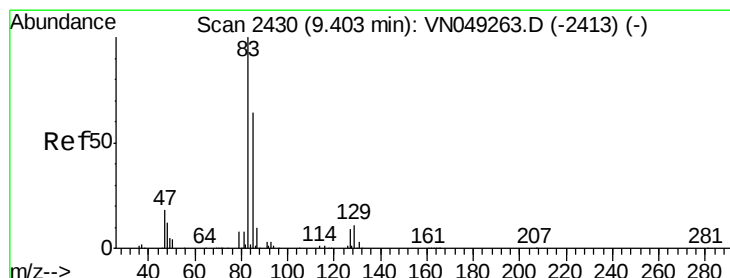
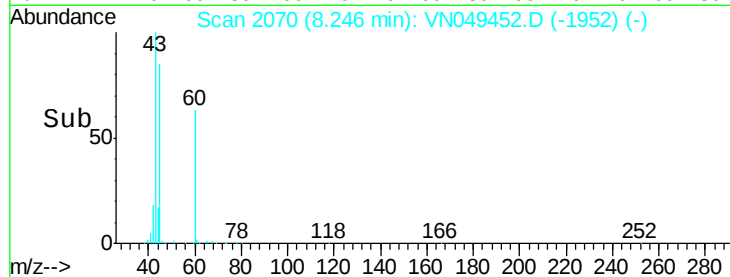
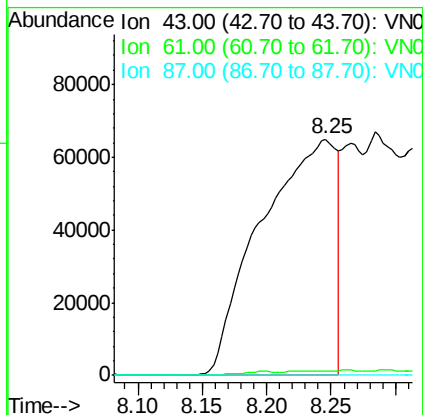
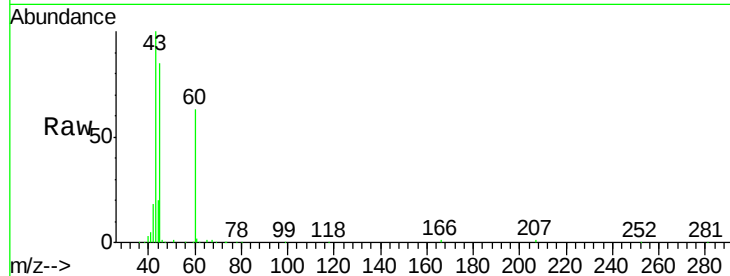


#43

Isopropyl Acetate
 Concen: 11.63 ug/l
 RT: 8.25 min Scan# 2070
 Delta R.T. 0.08 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Instrument :
 MSVOA_N
 ClientSampleId :

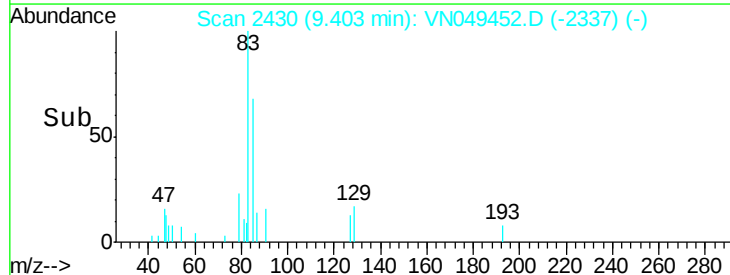
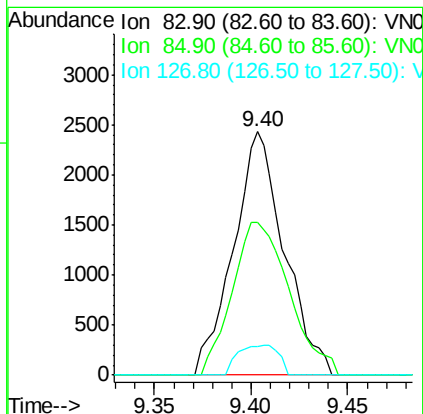
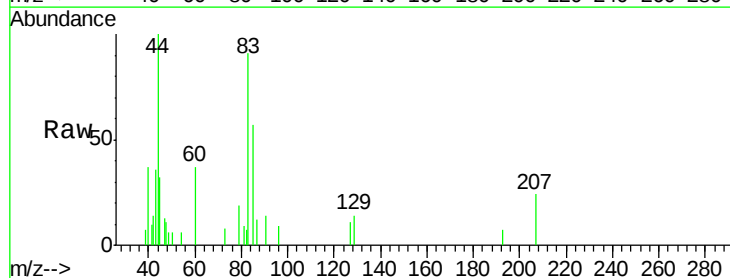
Tot Ion: 43 Resp: 262488
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.2 21.4#
 87 0.0 9.4 14.0#

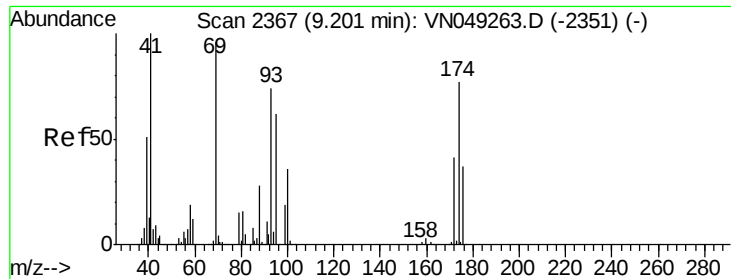


#47

Bromodichloromethane
 Concen: 0.20 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. -0.00 min
 Lab File: VN049452.D
 Acq: 20 Jun 2018 22:13

Tgt Ion: 83 Resp: 4456
 Ion Ratio Lower Upper
 83 100
 85 62.7 49.4 74.0
 127 11.9 6.3 9.5#

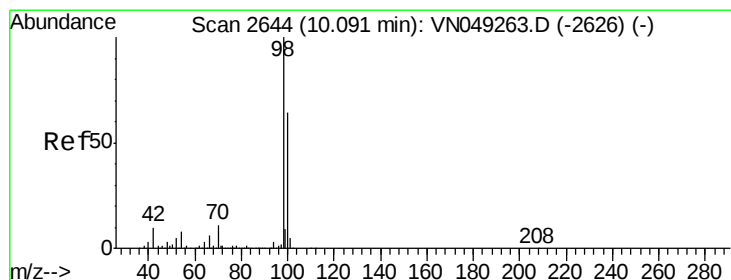
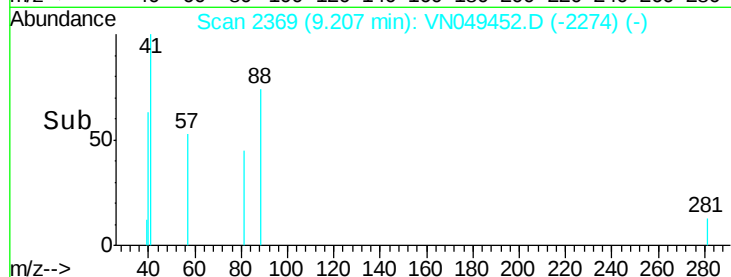
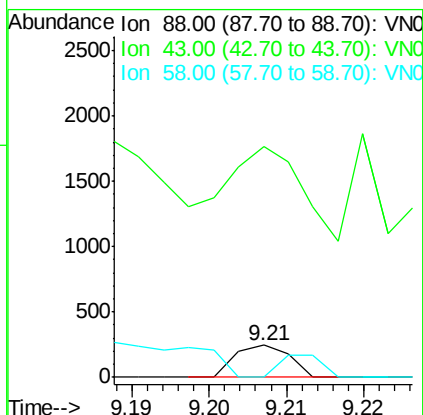
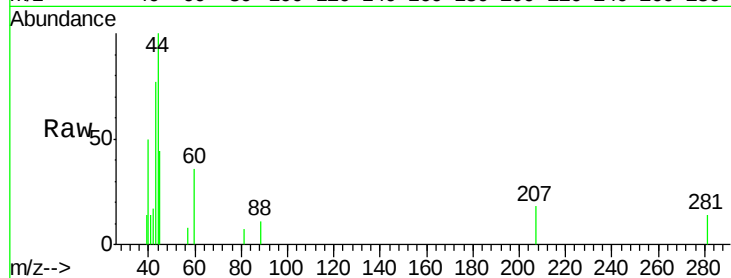




#49
1,4-Dioxane
Concen: 0.82 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.01 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

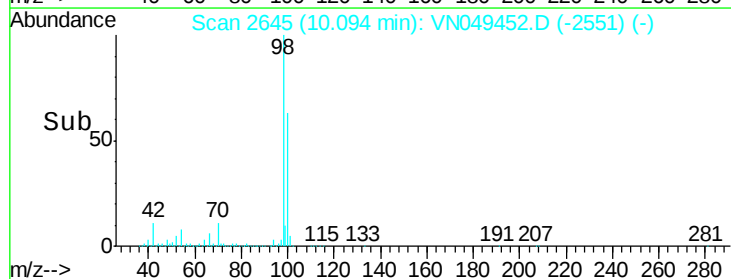
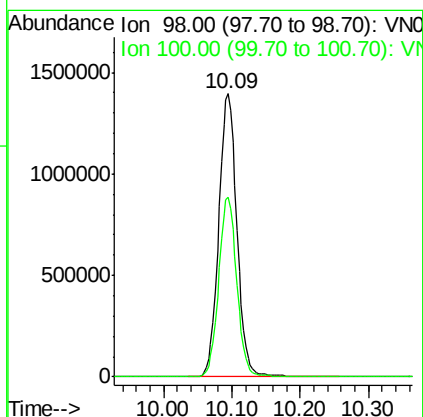
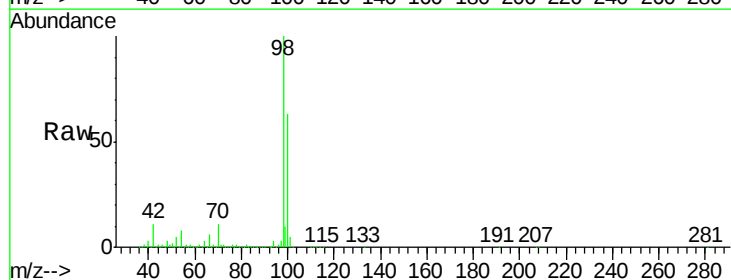
Instrument :
MSVOA_N
ClientSampleId :

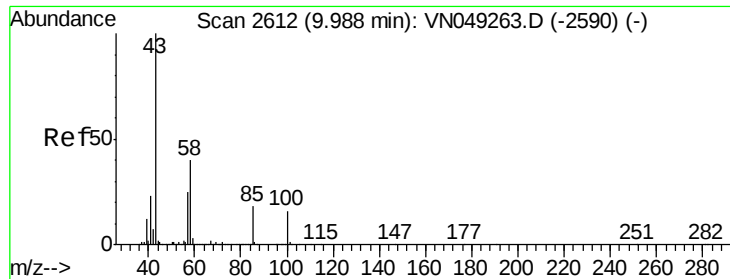
Tot Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 405.8 30.9 46.3#
58 55.0 58.9 88.3#



#50
Toluene-d8
Concen: 44.18 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Tgt Ion: 98 Resp: 2579483
Ion Ratio Lower Upper
98 100
100 63.3 49.8 74.8





#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

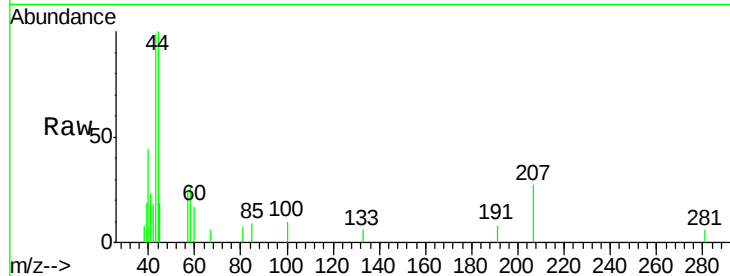
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2970

Ion Ratio Lower Upper

43 100

58 49.2 29.0 43.6#

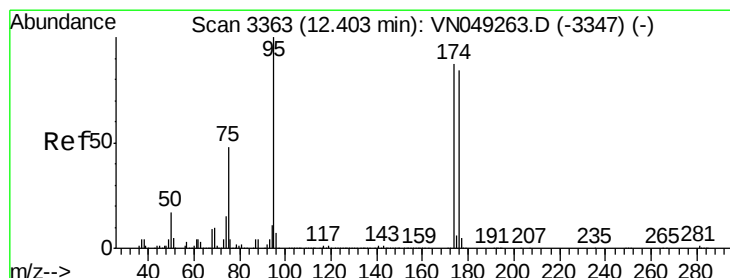
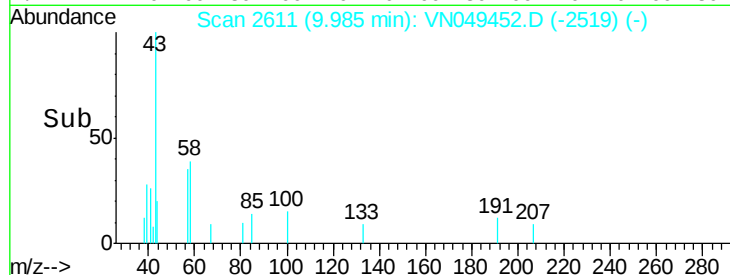


Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

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

Time-->

9.95 10.00



#62

4-Bromofluorobenzene

Concen: 35.50 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

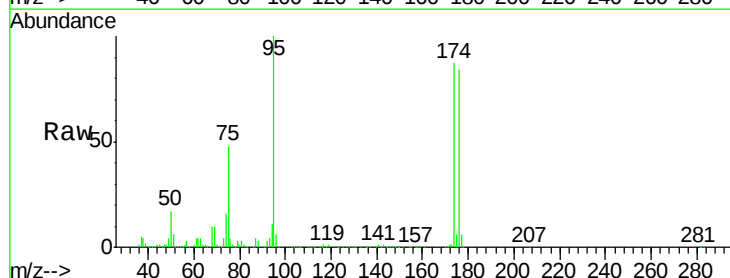
Tgt Ion: 95 Resp: 685243

Ion Ratio Lower Upper

95 100

174 88.4 0.0 165.6

176 84.8 0.0 157.4



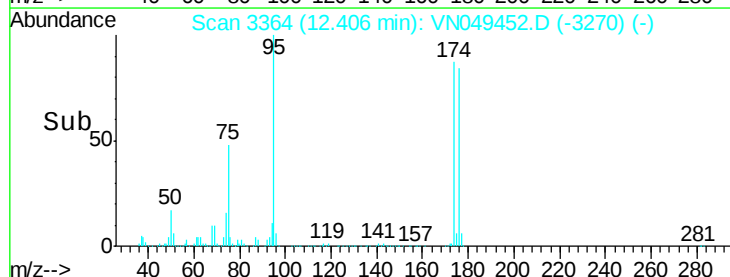
Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

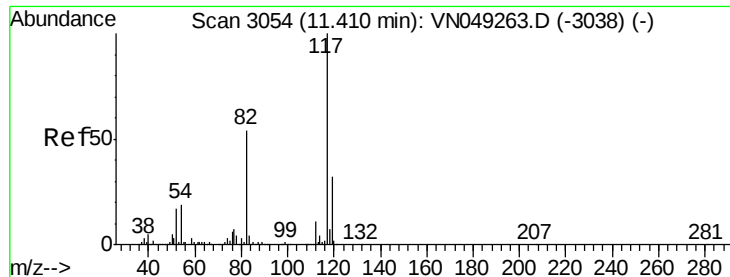
Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

Time-->

12.40 12.50

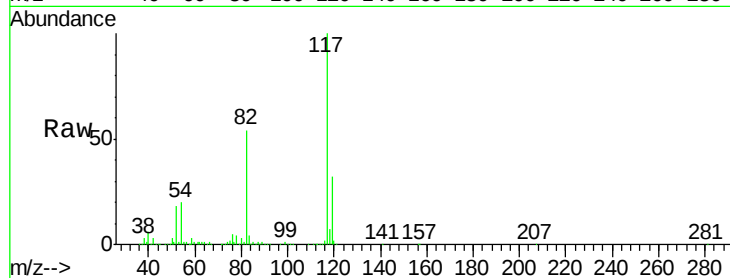




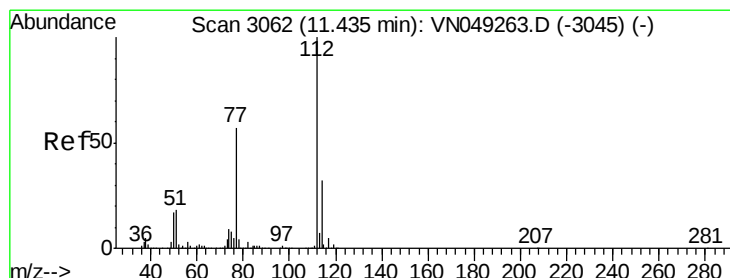
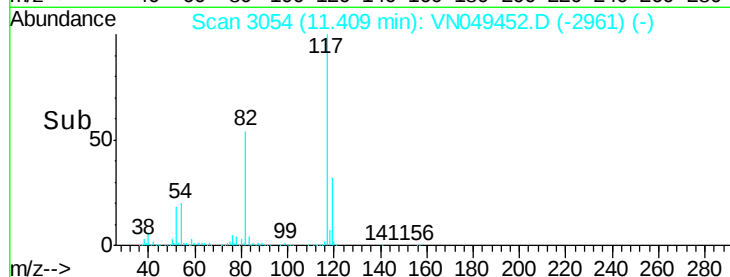
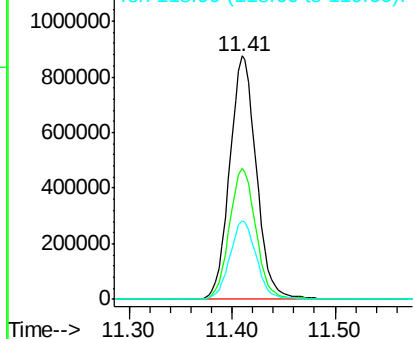
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1572352
Ion Ratio Lower Upper
117 100
82 53.6 45.9 68.9
119 32.4 25.5 38.3

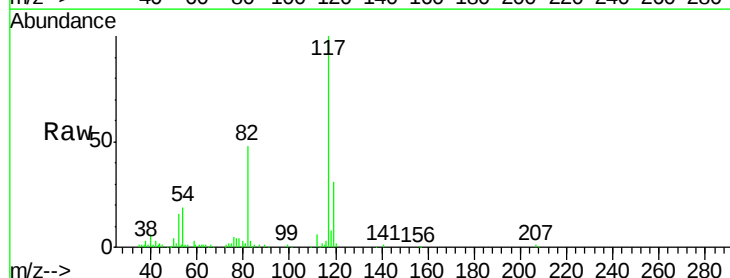


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

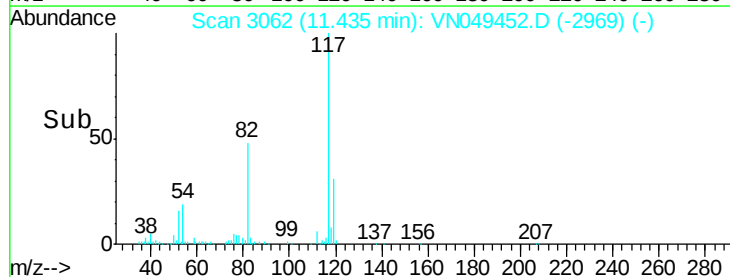
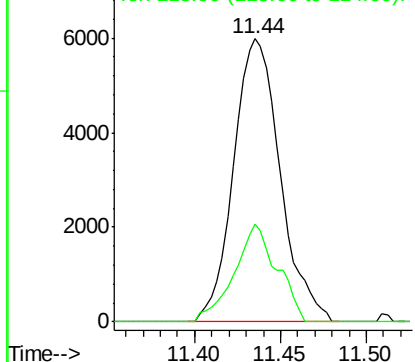


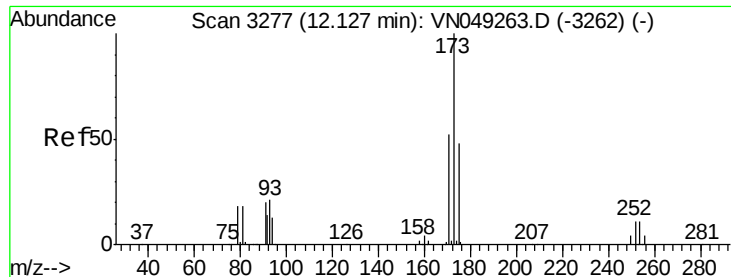
#65
Chlorobenzene
Concen: 0.28 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN049452.D
Acq: 20 Jun 2018 22:13

Tgt Ion:112 Resp: 11301
Ion Ratio Lower Upper
112 100
114 34.4 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.36 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

ClientSampleId :

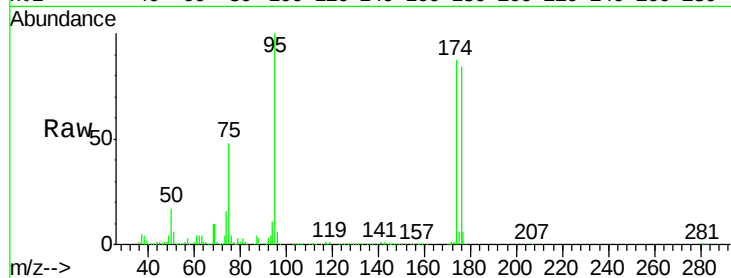
Tot Ion:173 Resp: 3584

Ion Ratio Lower Upper

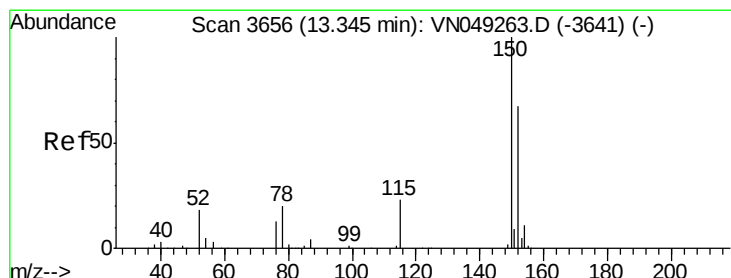
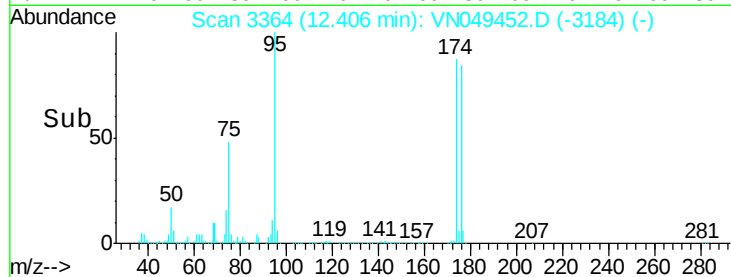
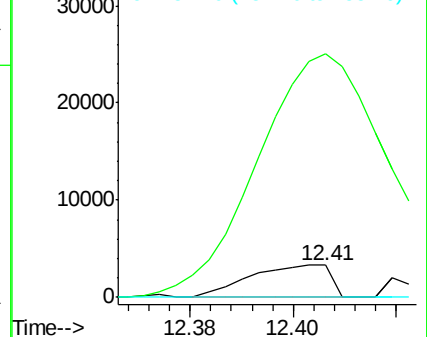
173 100

175 935.0 24.5 73.5#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

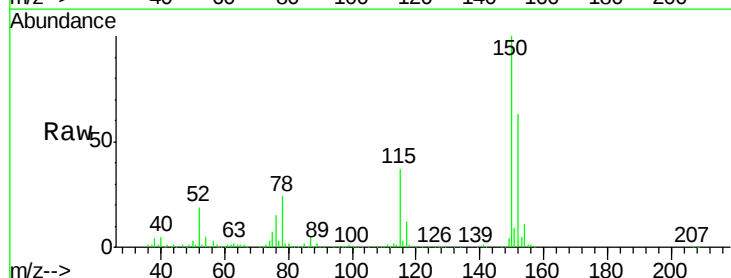
Tgt Ion:152 Resp: 492216

Ion Ratio Lower Upper

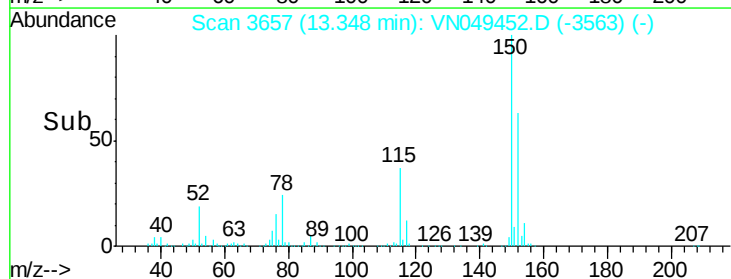
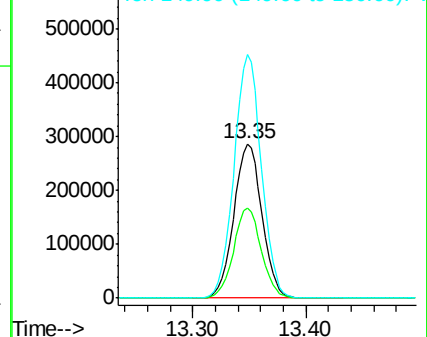
152 100

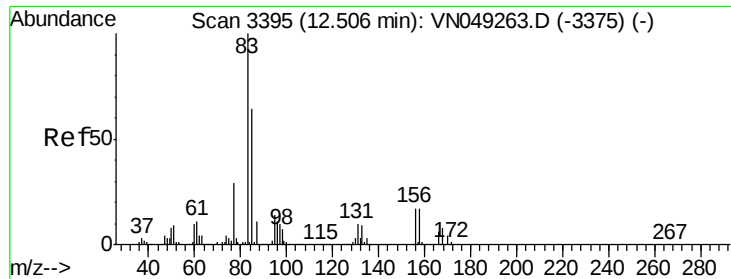
115 58.0 28.7 86.1

150 154.2 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: 12.42 min Scan# 3367

Delta R.T. -0.09 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

ClientSampled :

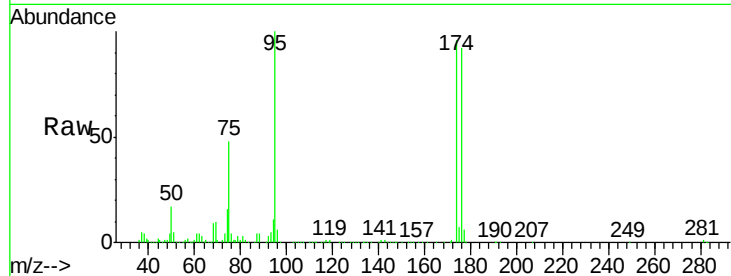
Tot Ion: 83 Resp: 501

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

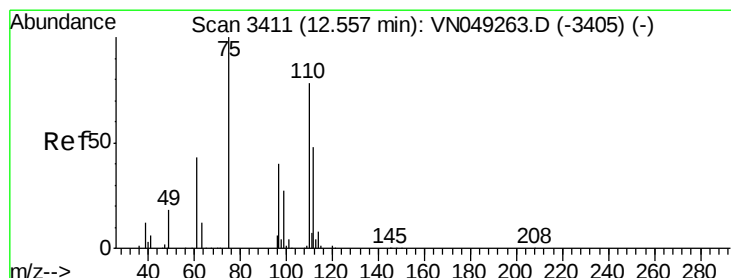
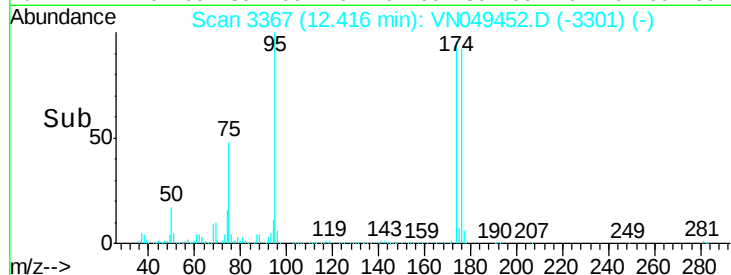
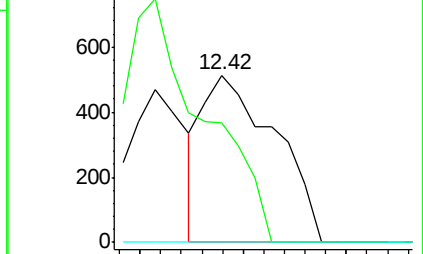
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 39.80 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049452.D

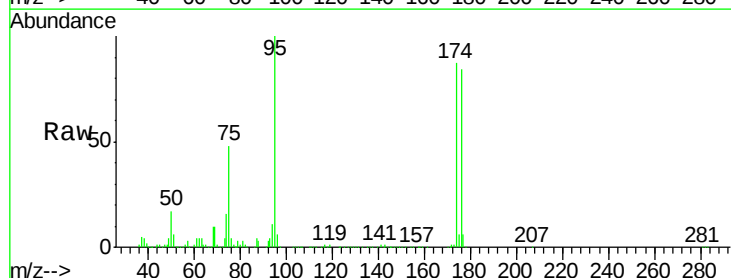
Acq: 20 Jun 2018 22:13

Tgt Ion: 75 Resp: 334254

Ion Ratio Lower Upper

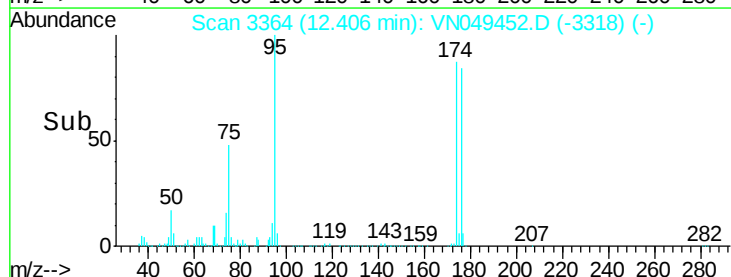
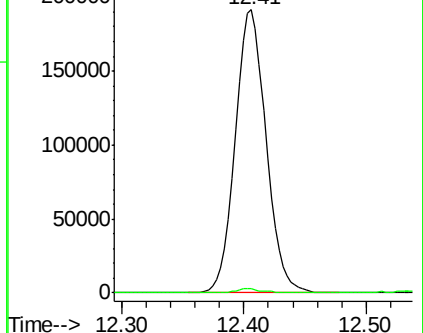
75 100

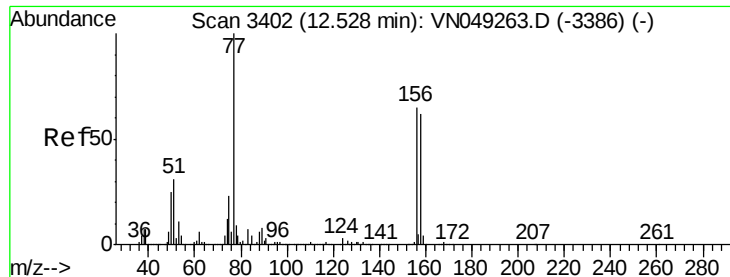
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 5.35 ug/l

RT: 12.57 min Scan# 3415

Delta R.T. 0.04 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

ClientSampled :

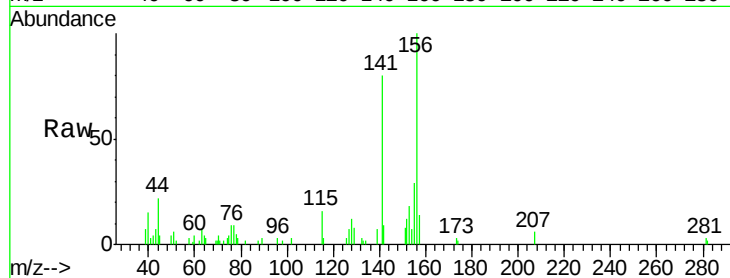
Tot Ion:156 Resp: 61056

Ion Ratio Lower Upper

156 100

77 1.9 100.8 302.4#

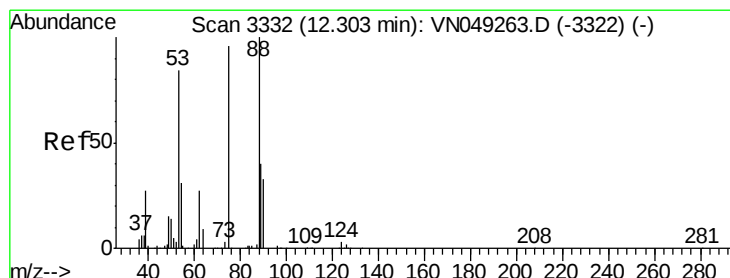
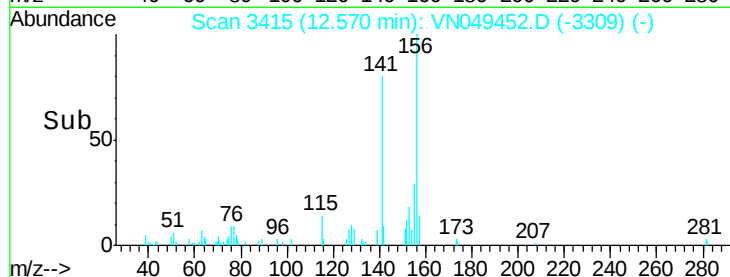
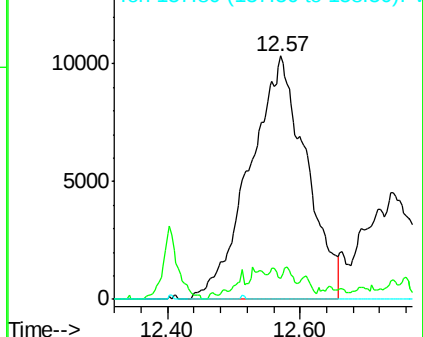
158 0.0 49.3 147.9#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 125.79 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

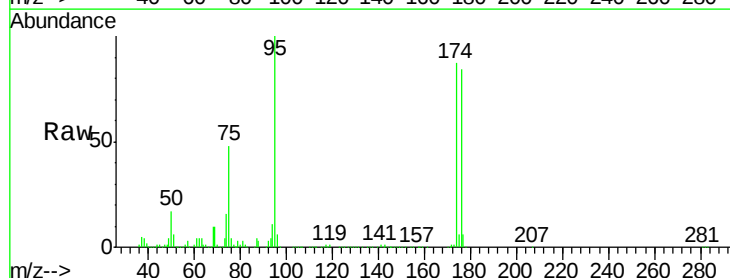
Tgt Ion: 75 Resp: 334254

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

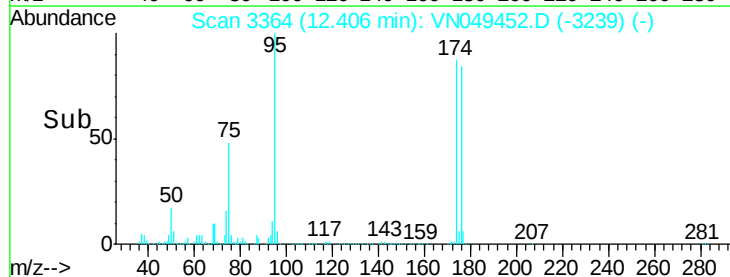
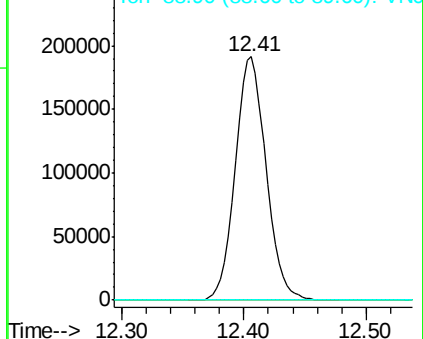
89 0.0 36.5 54.7#

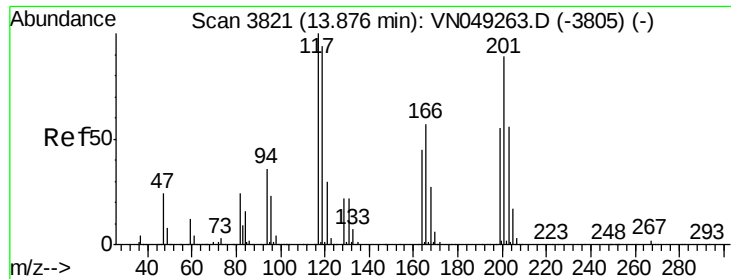


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

Instrument :

MSVOA_N

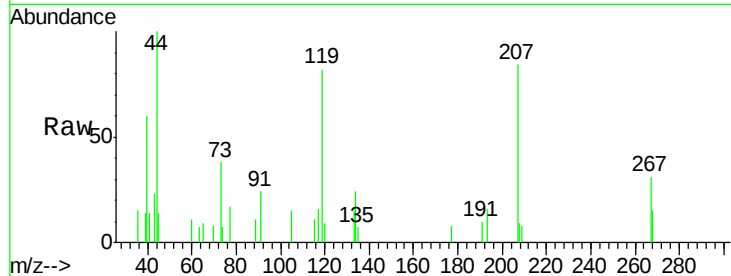
ClientSampleId :

Tot Ion:117 Resp: 270

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

13.89

300

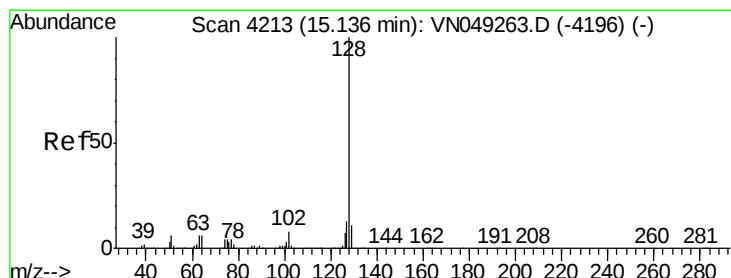
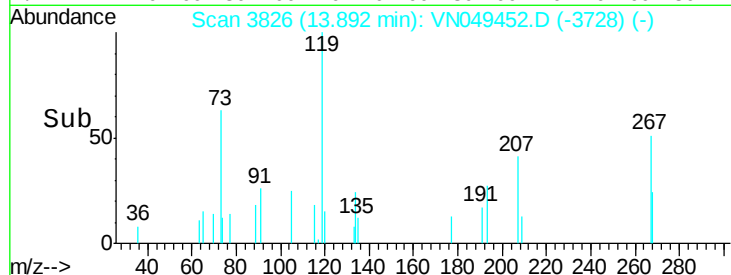
200

100

0

Time-->

13.88 13.90



#95

Naphthalene

Concen: 4.20 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049452.D

Acq: 20 Jun 2018 22:13

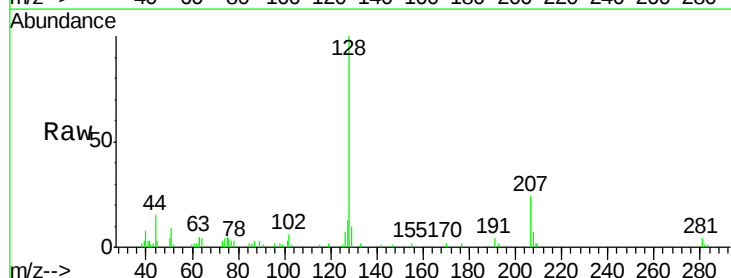
Tgt Ion:128 Resp: 29124

Ion Ratio Lower Upper

128 100

127 14.6 10.6 16.0

129 12.5 8.5 12.7



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

15.14

20000

15000

10000

5000

0

Time-->

15.05 15.10 15.15 15.20

