

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049394.D
 Acq On : 19 Jun 2018 19:04
 Operator : MD\SY
 Sample : PB110363ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:32:51 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	1208045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1922380	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1606508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	450280	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	824371	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
35) Dibromofluoromethane	7.59	113	715829	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
50) Toluene-d8	10.09	98	2622652	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	
62) 4-Bromofluorobenzene	12.40	95	671010	34.27	ug/l	0.00
Spiked Amount			Recovery	=	68.54%	

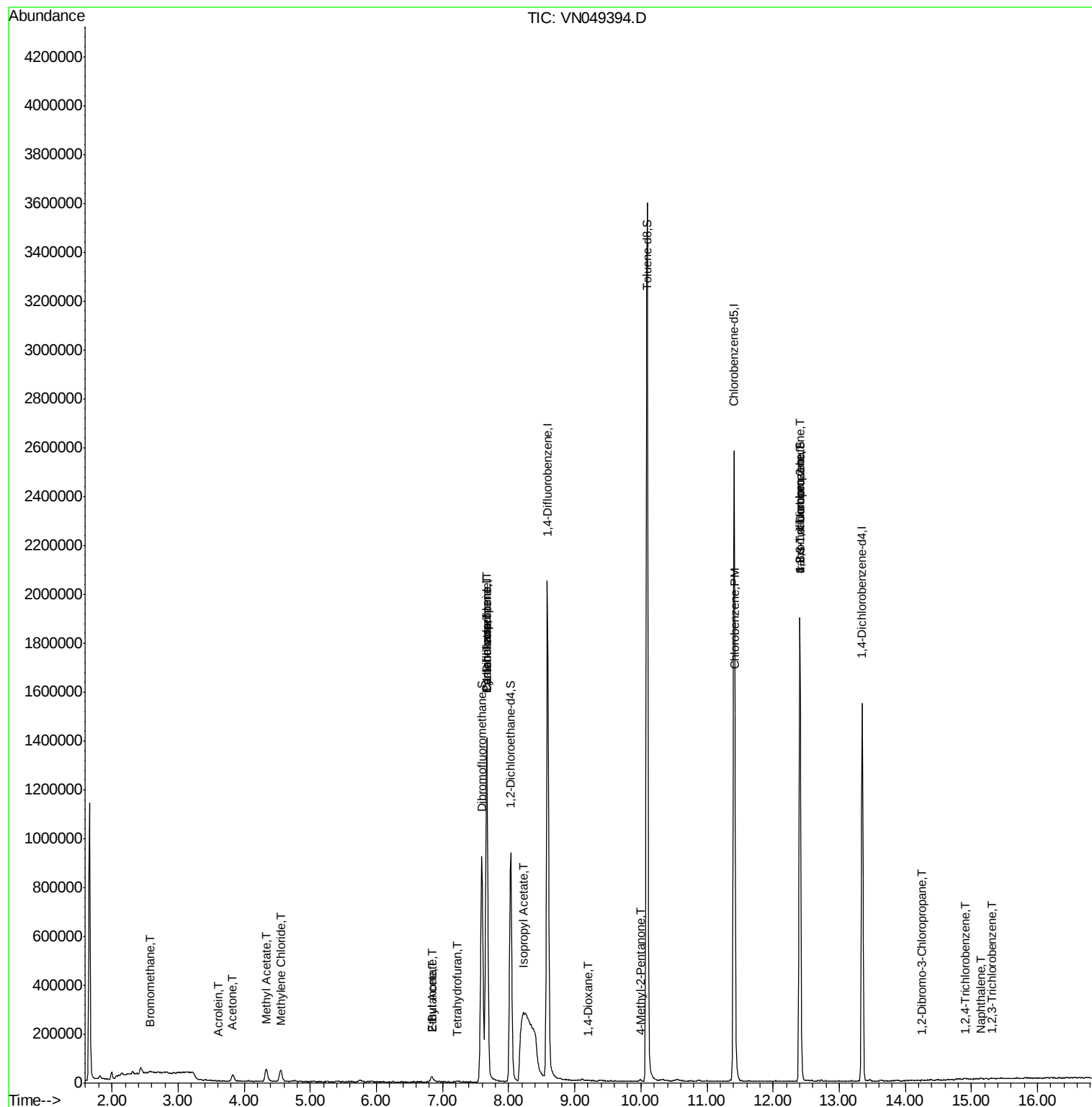
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	5079	0.51	ug/l	93
13) Acrolein	3.61	56	253	0.26	ug/l	# 44
16) Acetone	3.82	43	48164	12.38	ug/l	97
18) Methyl Acetate	4.33	43	100982	8.51	ug/l	95
20) Methylene Chloride	4.55	84	36205	2.23	ug/l	90
25) 2-Butanone	6.85	43	9372	1.79	ug/l	# 83
29) Tetrahydrofuran	7.22	42	2498	0.74	ug/l	# 90
31) Cyclohexane	7.66	56	22544	0.78	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	83412	3.79	ug/l	# 51
37) Ethyl Acetate	6.85	43	9372	0.78	ug/l	# 77
38) Carbon Tetrachloride	7.67	117	107591	4.72	ug/l	# 17
43) Isopropyl Acetate	8.22	43	372502	16.28	ug/l	# 64
49) 1,4-Dioxane	9.21	88	102	0.69	ug/l	# 1
51) 4-Methyl-2-Pentanone	9.98	43	4802	0.40	ug/l	97
65) Chlorobenzene	11.43	112	21781	0.53	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.51	83	110	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	323035	42.05	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	323035	132.89	ug/l	# 9
90) Hexachloroethane	13.87	117	33	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.25	75	751	0.55	ug/l	# 4
93) 1,2,4-Trichlorobenzene	14.91	180	1016	4.86	ug/l	# 59
95) Naphthalene	15.14	128	2125	2.25	ug/l	# 72
96) 1,2,3-Trichlorobenzene	15.31	180	464	3.51	ug/l	# 59

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

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Quant Title : SW846 8260
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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: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

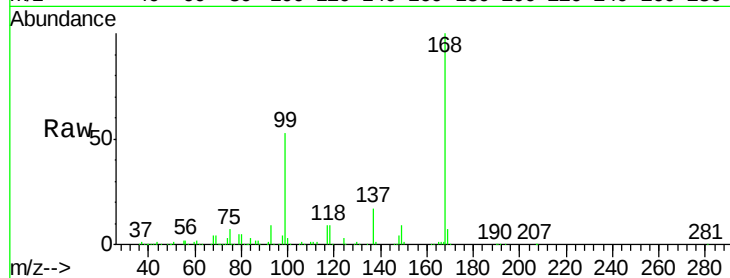
ClientSampleId :

Tot Ion:168 Resp: 1208045

Ion Ratio Lower Upper

168 100

99 53.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

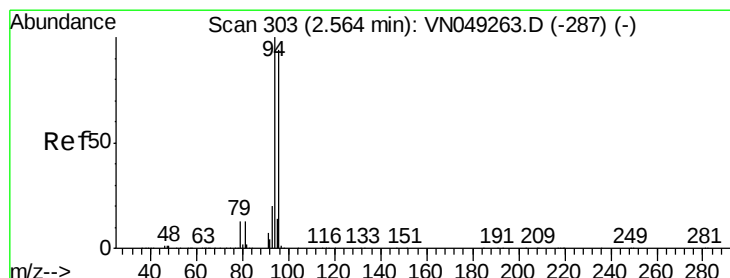
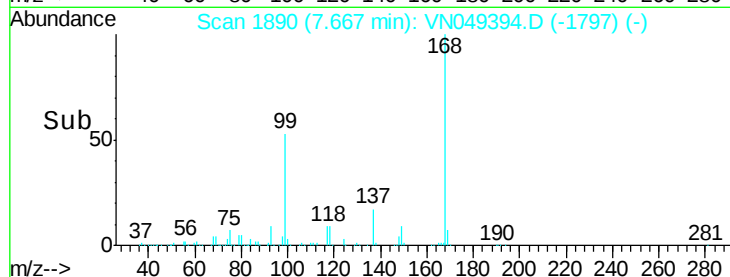
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#5

Bromomethane

Concen: 0.51 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049394.D

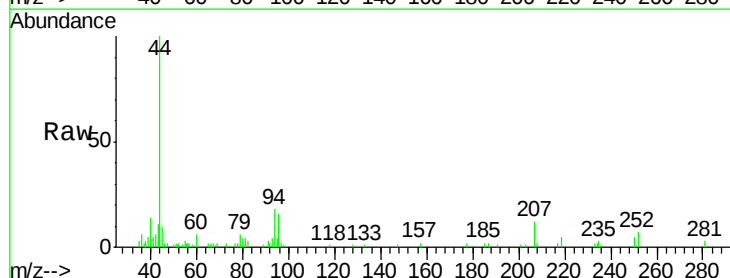
Acq: 19 Jun 2018 19:04

Tgt Ion: 94 Resp: 5079

Ion Ratio Lower Upper

94 100

96 84.1 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

3000

2500

2000

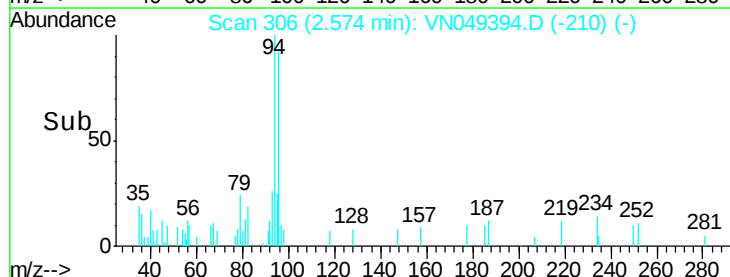
1500

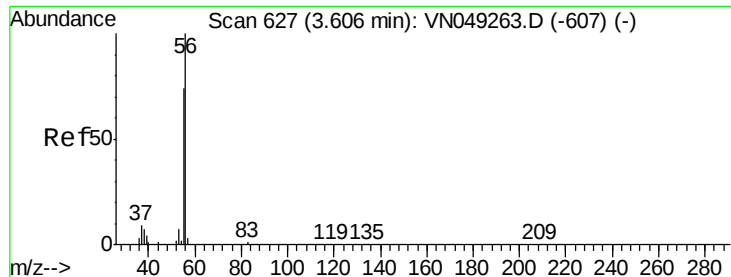
1000

500

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 0.26 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

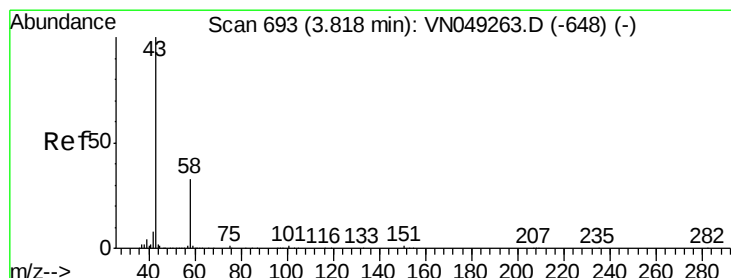
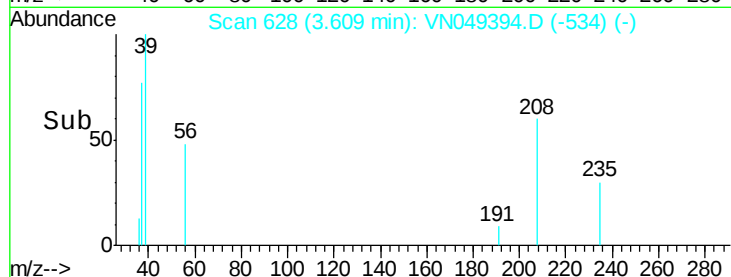
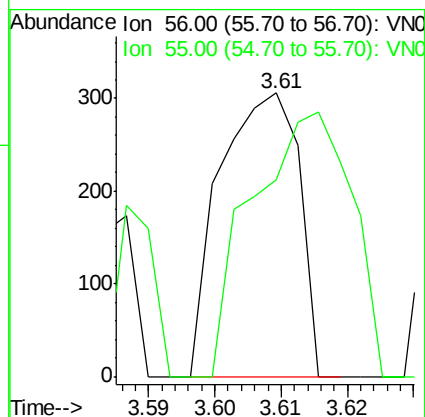
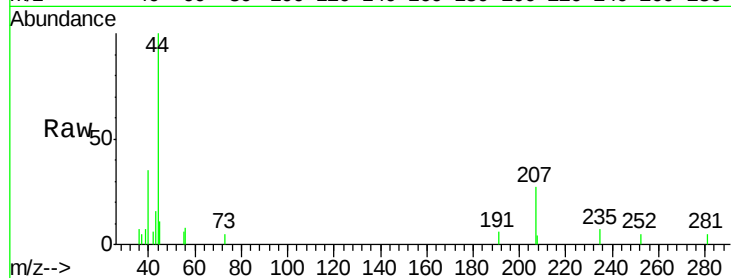
ClientSampleId :

Tot Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 118.2 57.1 85.7#



#16

Acetone

Concen: 12.38 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049394.D

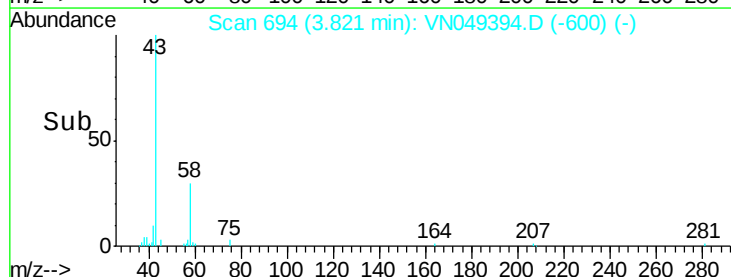
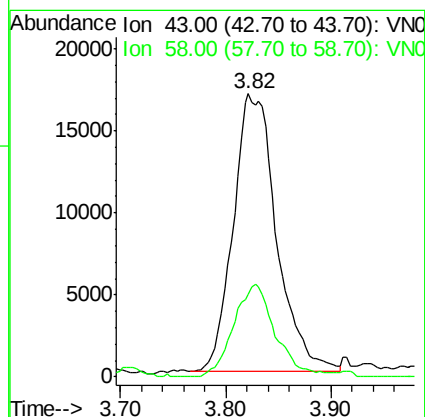
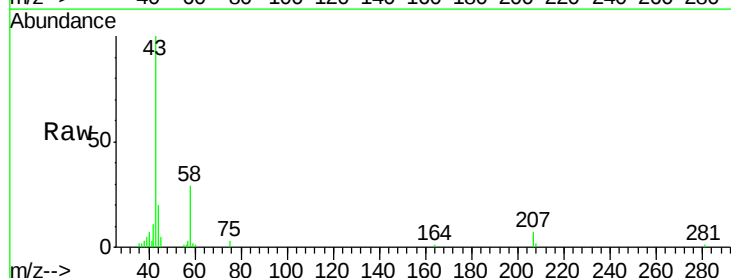
Acq: 19 Jun 2018 19:04

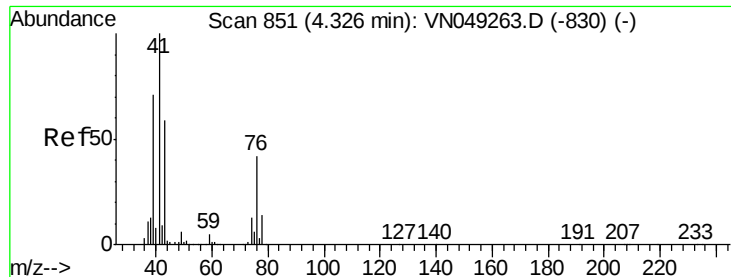
Tgt Ion: 43 Resp: 48164

Ion Ratio Lower Upper

43 100

58 29.6 22.4 33.6

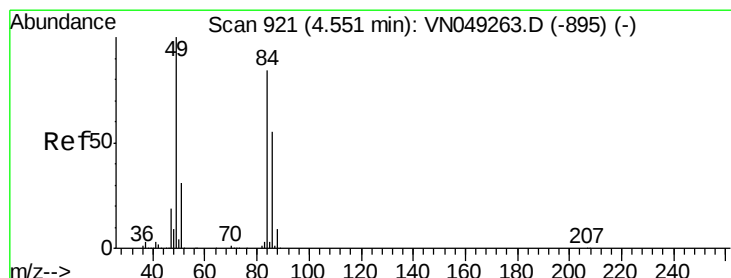
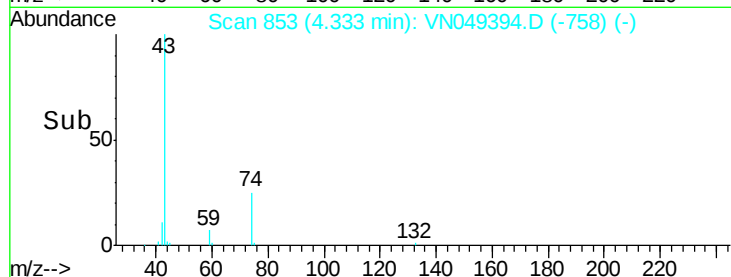
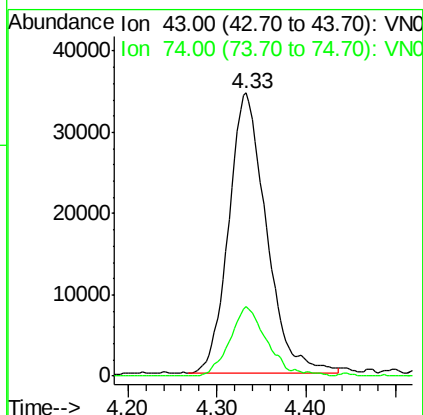
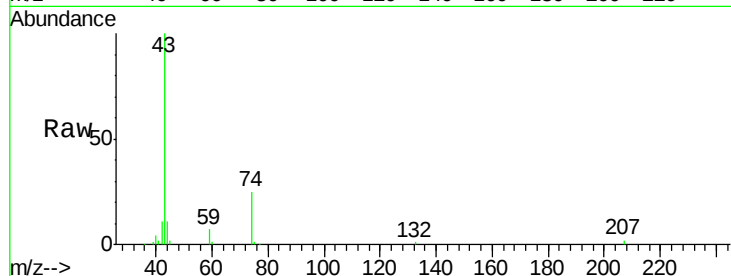




#18
Methvl Acetate
Concen: 8.51 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

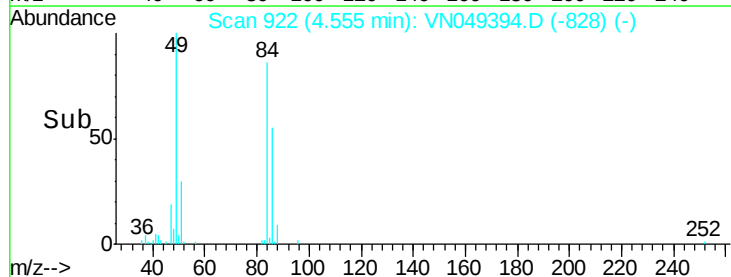
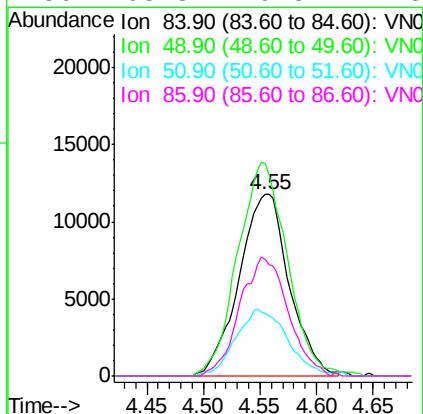
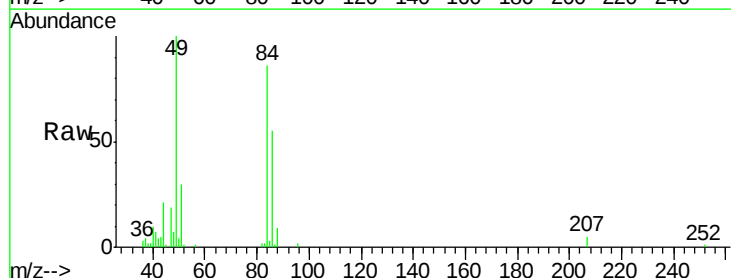
Instrument :
MSVOA_N
ClientSampleId :

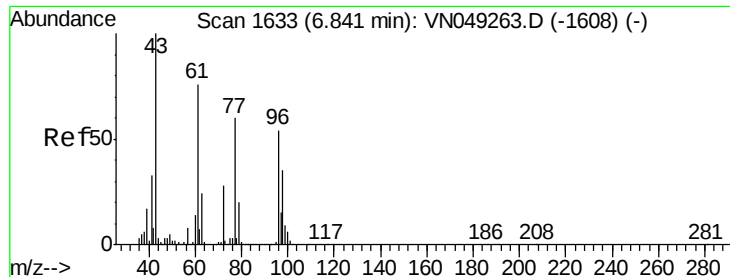
Tot Ion: 43 Resp: 100982
Ion Ratio Lower Upper
43 100
74 24.1 17.4 26.0



#20
Methylene Chloride
Concen: 2.23 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion: 84 Resp: 36205
Ion Ratio Lower Upper
84 100
49 116.8 106.9 160.3
51 34.8 32.7 49.1
86 63.8 49.8 74.8

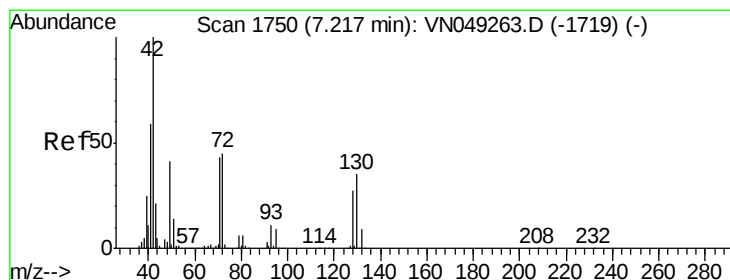
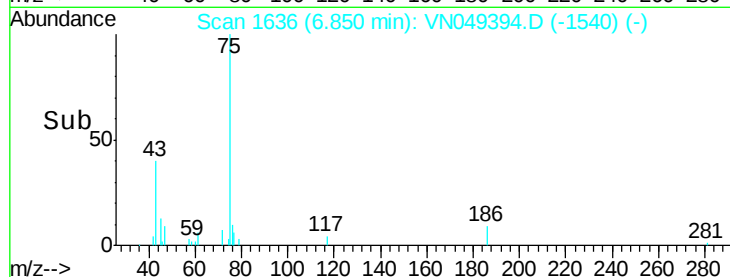
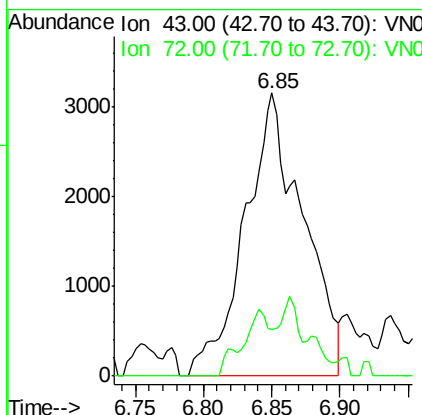
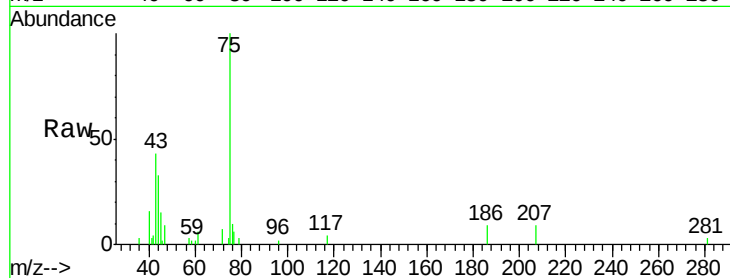




#25
2-Butanone
Concen: 1.79 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

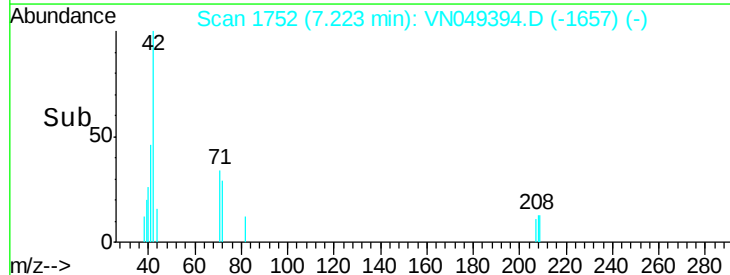
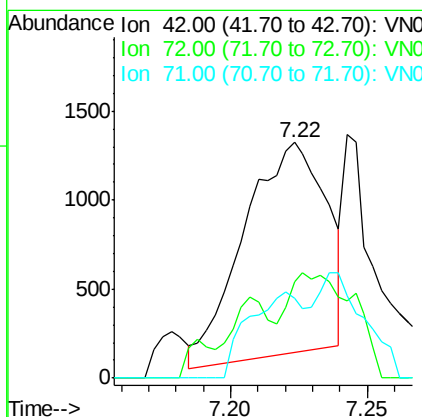
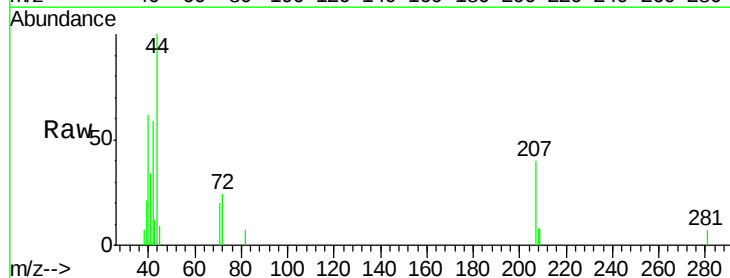
Instrument :
MSVOA_N
ClientSampled :

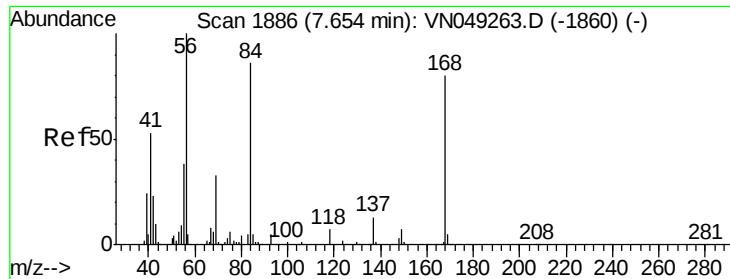
Tot Ion: 43 Resp: 9372
Ion Ratio Lower Upper
43 100
72 16.5 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.74 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion: 42 Resp: 2498
Ion Ratio Lower Upper
42 100
72 39.5 32.2 48.4
71 26.1 30.5 45.7#

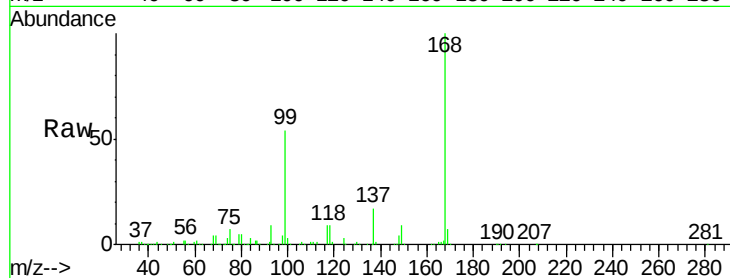




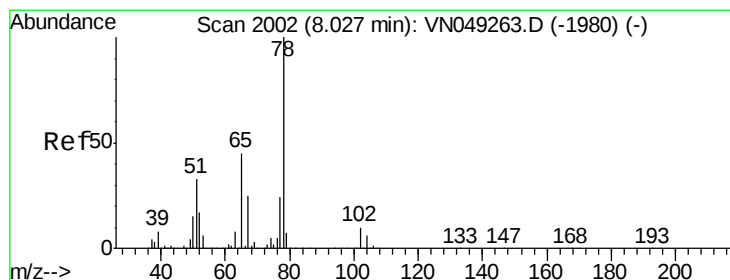
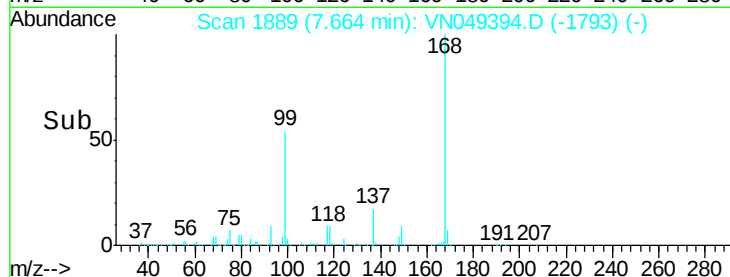
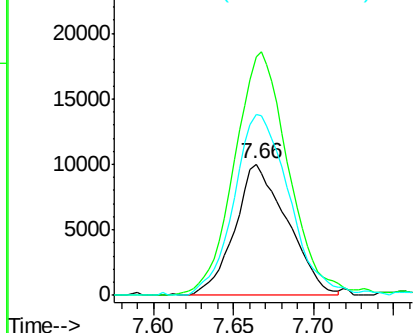
#31
Cyclohexane
Concen: 0.78 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 22544
Ion Ratio Lower Upper
56 100
69 177.8 25.0 37.4#
84 137.8 64.6 96.8#

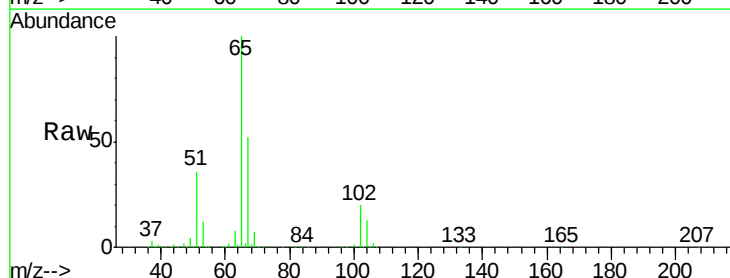


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

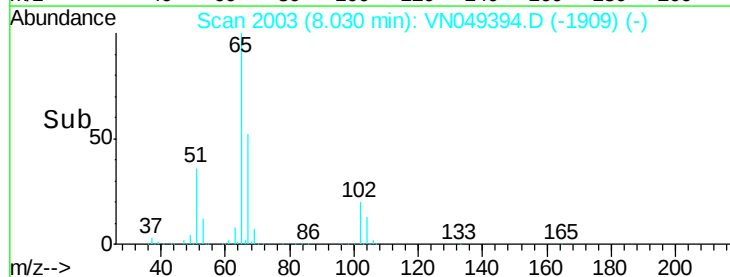
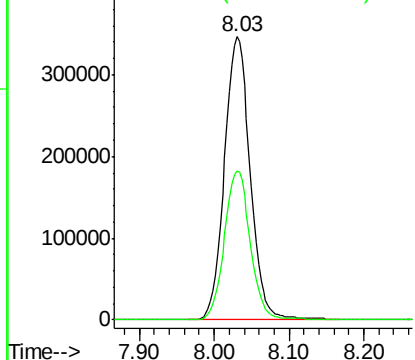


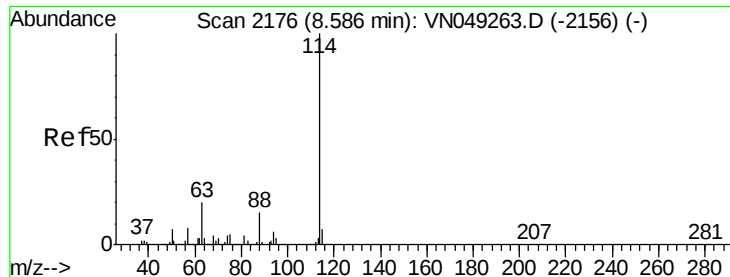
#33
1,2-Dichloroethane-d4
Concen: 51.45 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion: 65 Resp: 824371
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.8



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

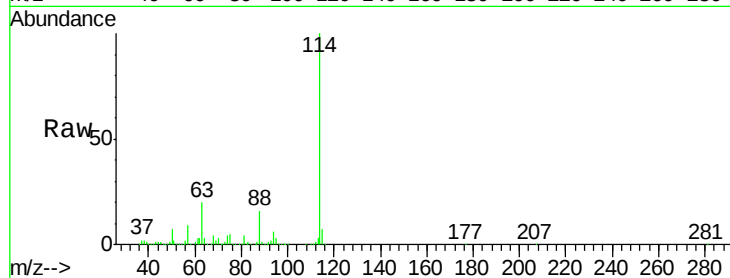




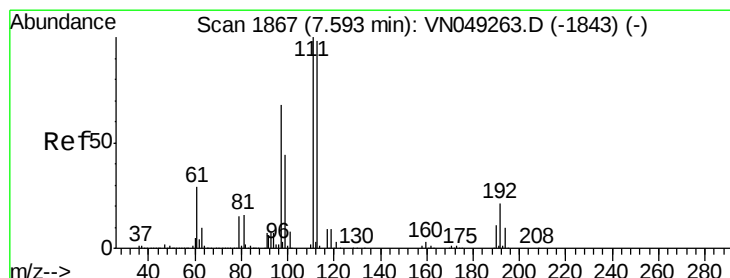
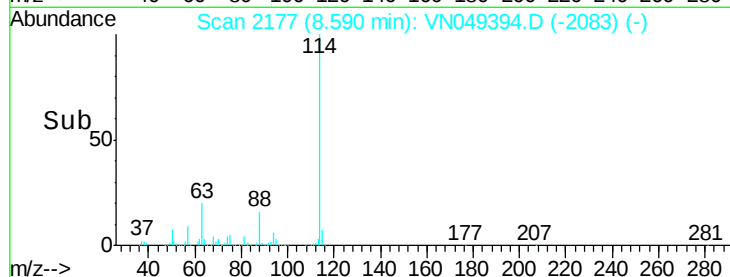
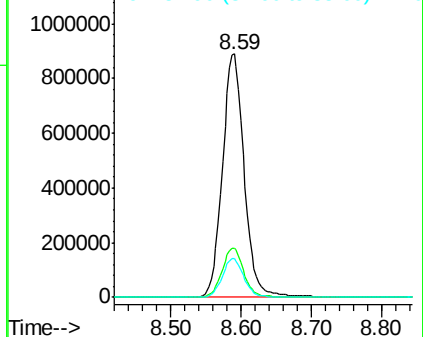
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1922380
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 44.4
 88 16.0 0.0 31.4

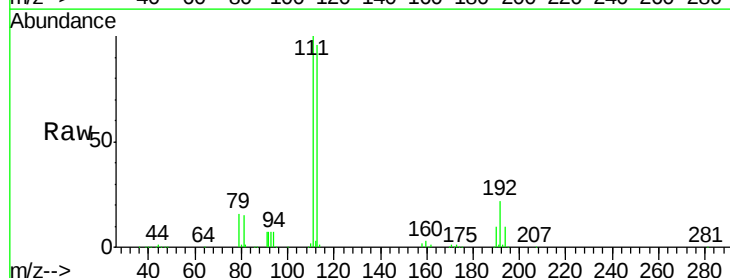


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

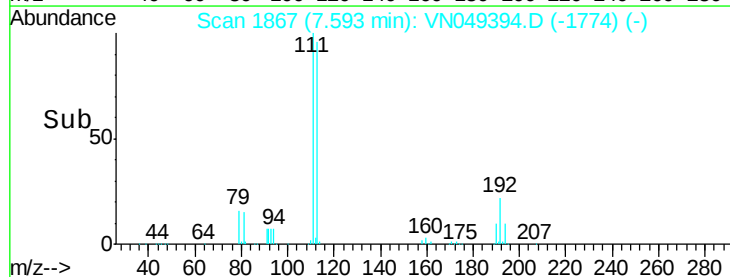
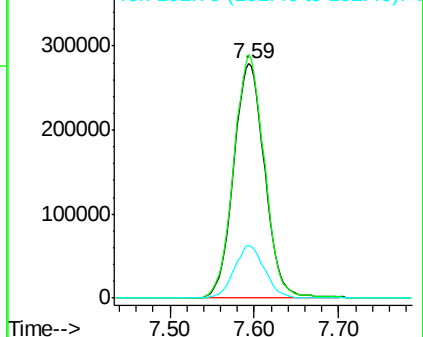


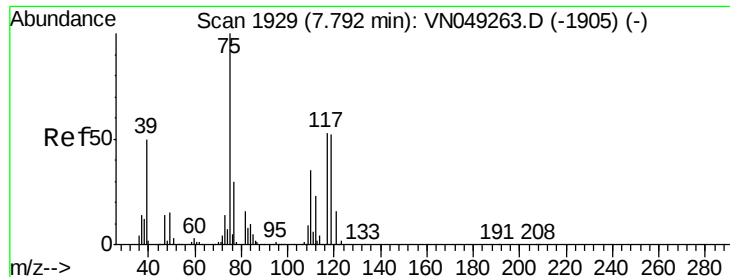
#35
 Dibromofluoromethane
 Concen: 46.03 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Tgt Ion:113 Resp: 715829
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 21.9 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: 3.79 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

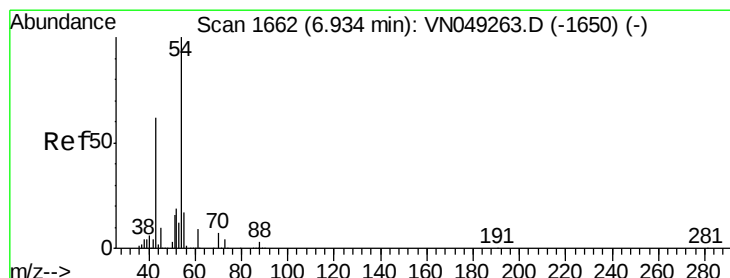
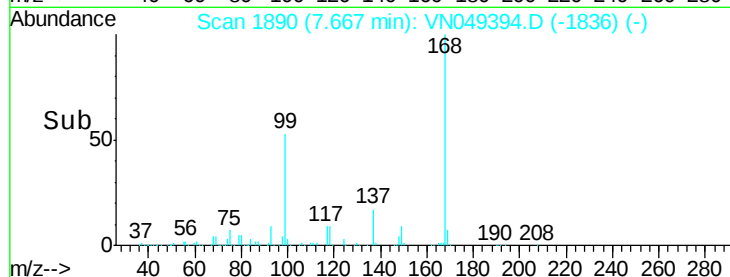
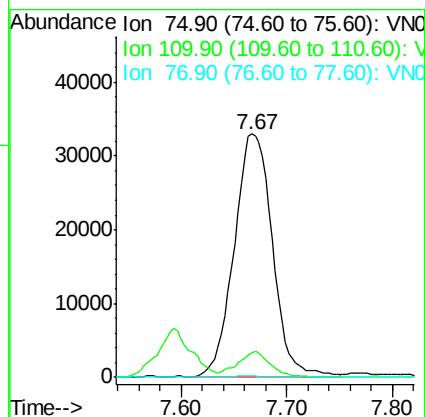
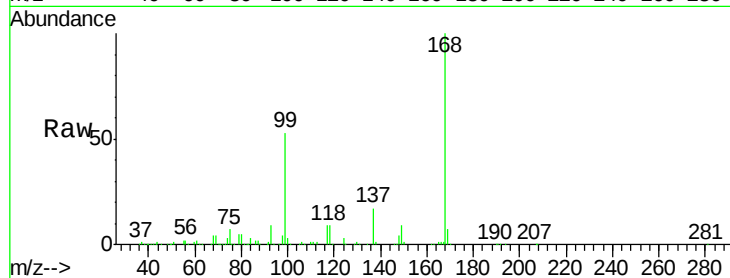
Tot Ion: 75 Resp: 83412

Ion Ratio Lower Upper

75 100

110 9.0 17.0 50.9#

77 0.3 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.78 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. -0.08 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

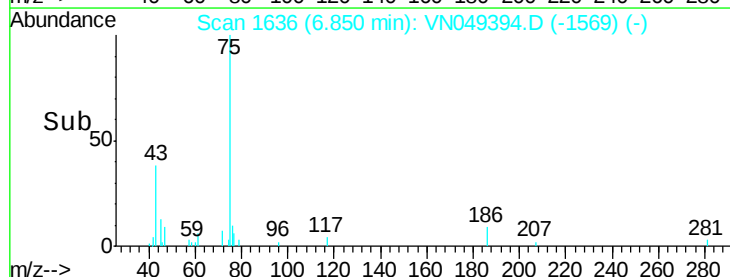
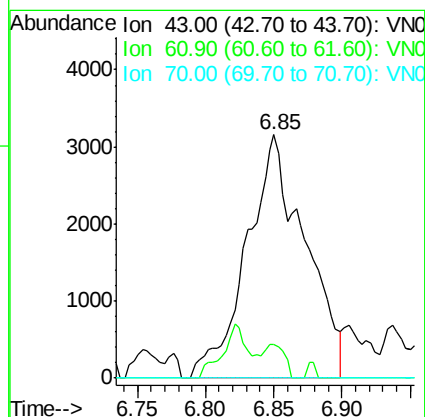
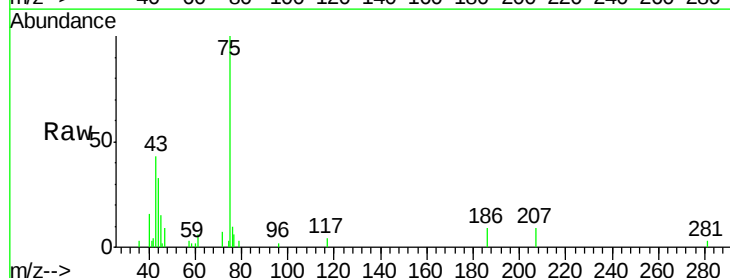
Tgt Ion: 43 Resp: 9372

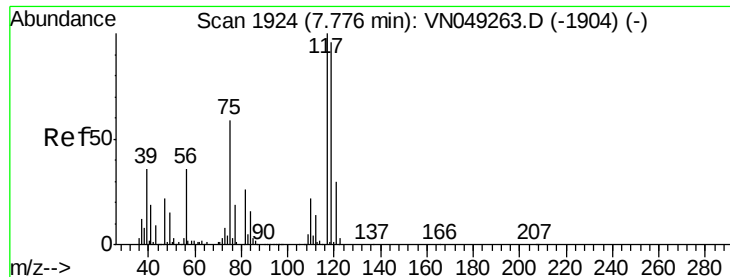
Ion Ratio Lower Upper

43 100

61 4.7 11.0 16.4#

70 0.0 7.2 10.8#

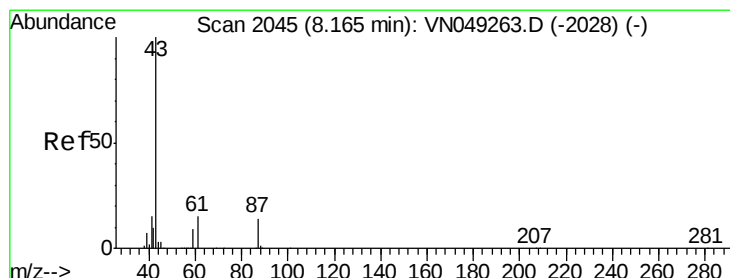
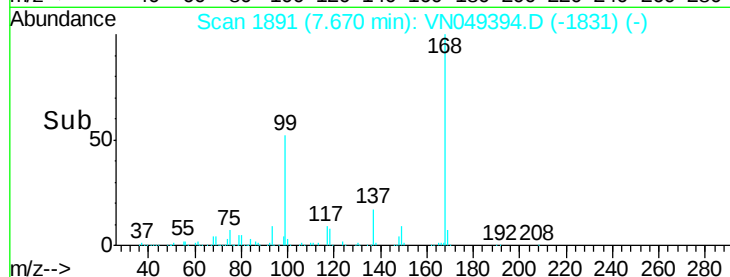
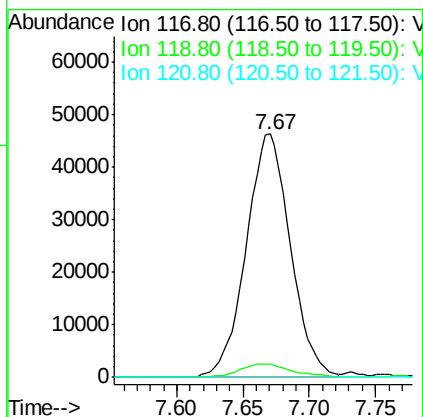
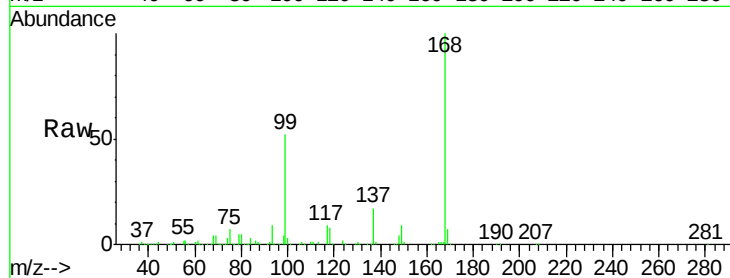




#38
Carbon Tetrachloride
Concen: 4.72 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

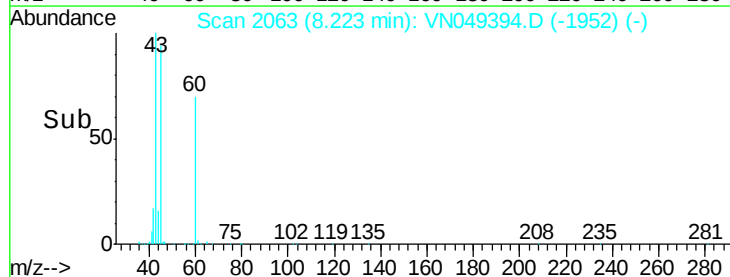
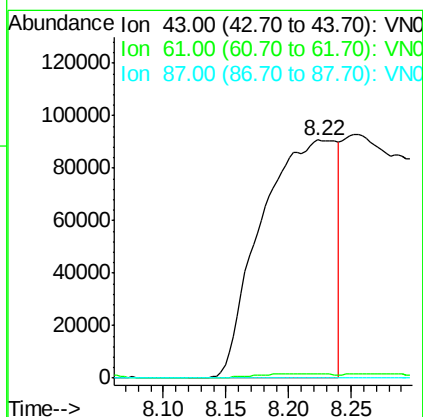
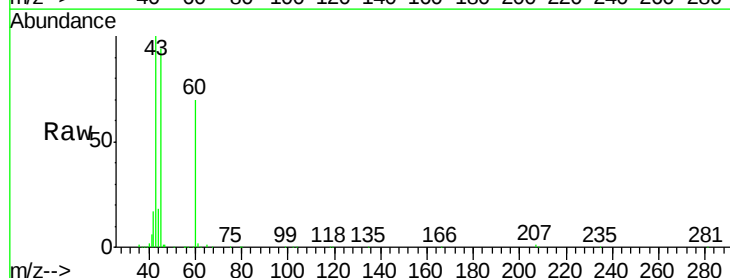
Instrument :
MSVOA_N
ClientSampleId :

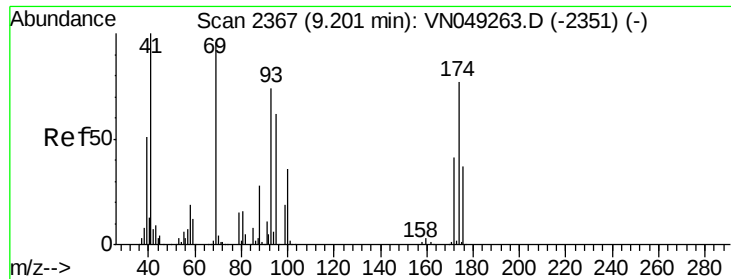
Tot Ion:117 Resp: 107591
Ion Ratio Lower Upper
117 100
119 5.2 75.6 113.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 16.28 ug/l
RT: 8.22 min Scan# 2063
Delta R.T. 0.06 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion: 43 Resp: 372502
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#

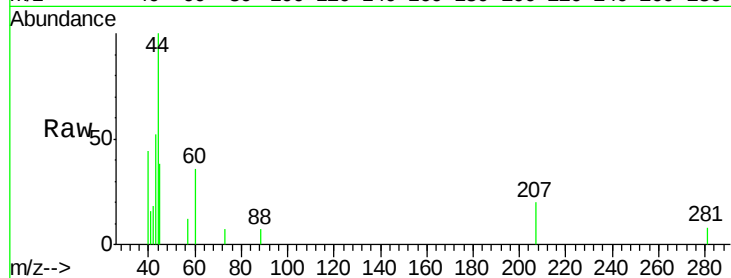




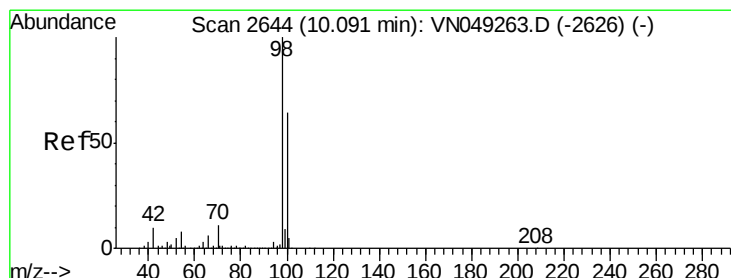
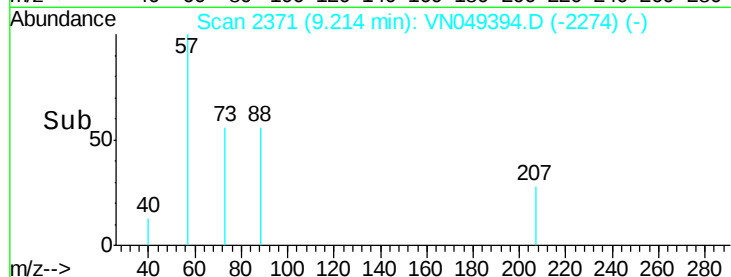
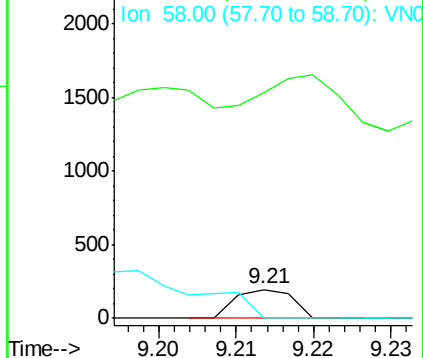
#49
1,4-Dioxane
Concen: 0.69 ug/l
RT: 9.21 min Scan# 2371
Delta R.T. 0.01 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 250.0 30.9 46.3#
58 0.0 58.9 88.3#

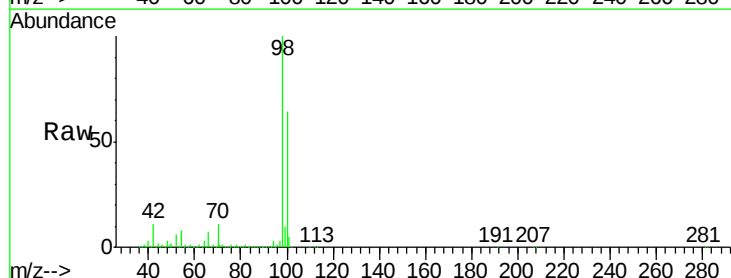


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

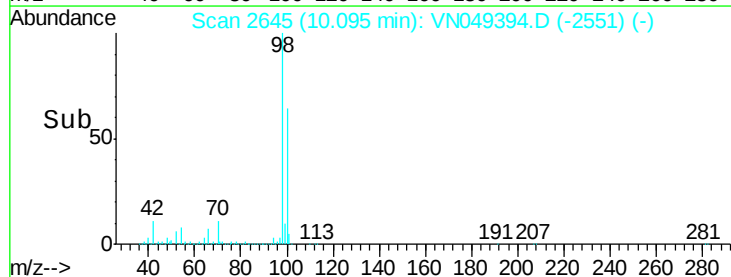
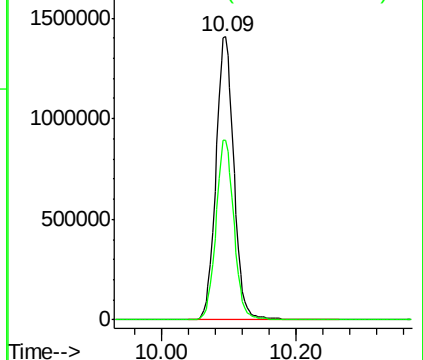


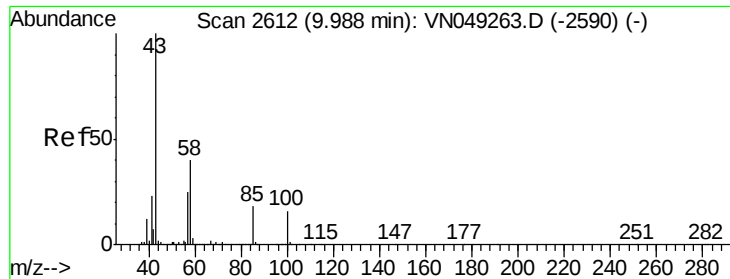
#50
Toluene-d8
Concen: 44.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion: 98 Resp: 2622652
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.01 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

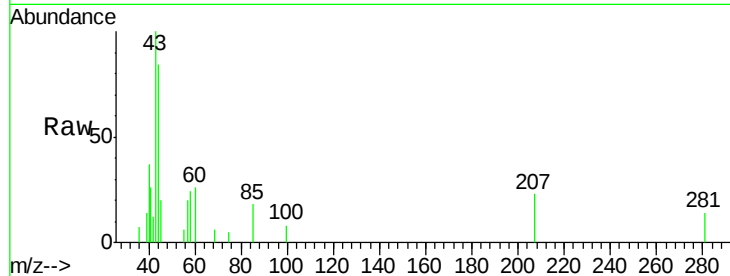
ClientSampleId :

Tot Ion: 43 Resp: 4802

Ion Ratio Lower Upper

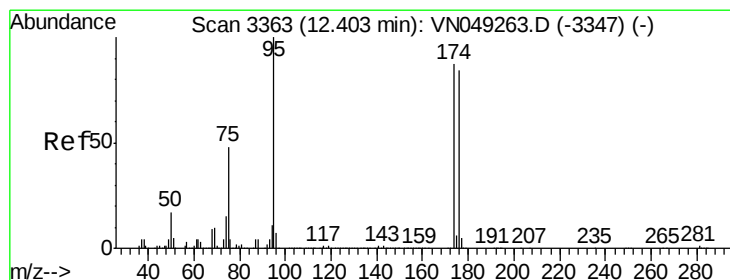
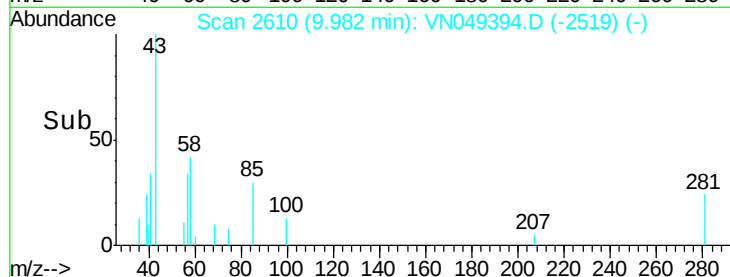
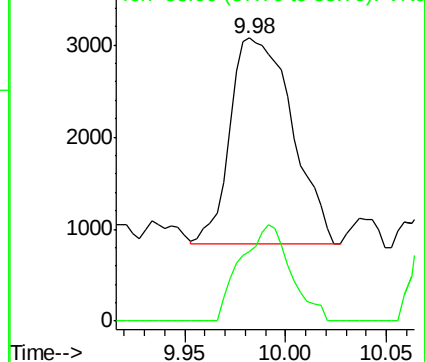
43 100

58 37.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 34.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

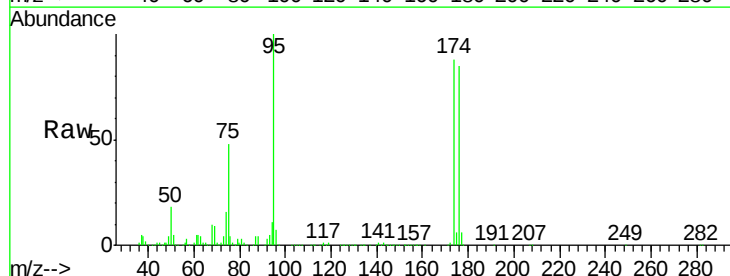
Tgt Ion: 95 Resp: 671010

Ion Ratio Lower Upper

95 100

174 89.5 0.0 165.6

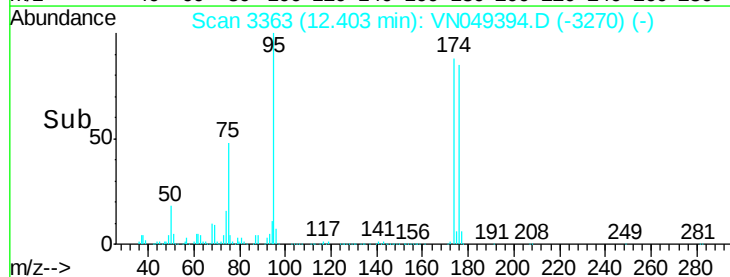
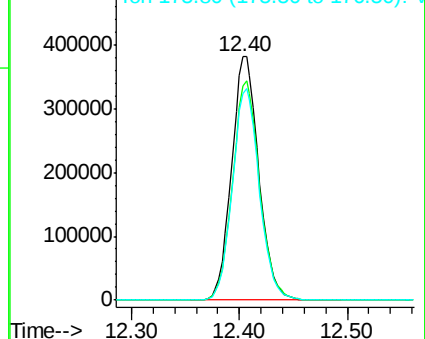
176 85.9 0.0 157.4

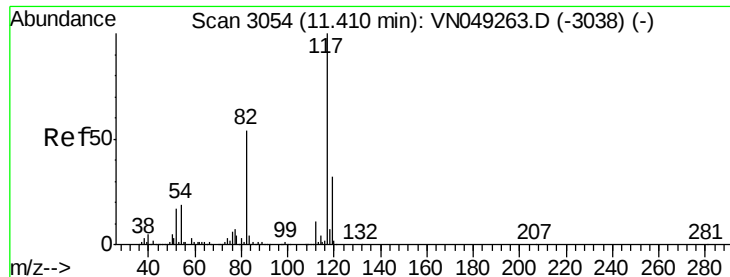


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

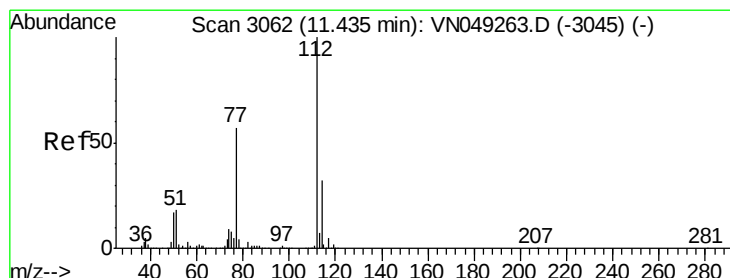
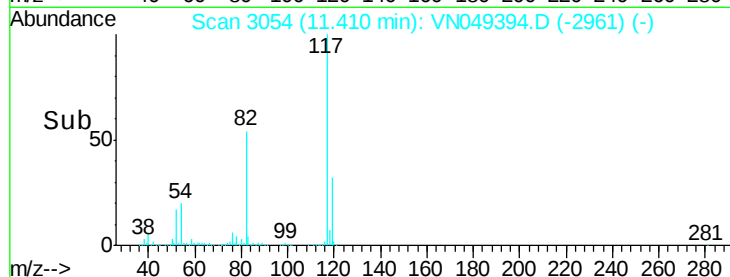
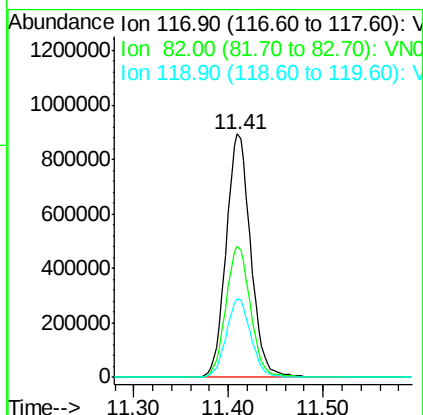
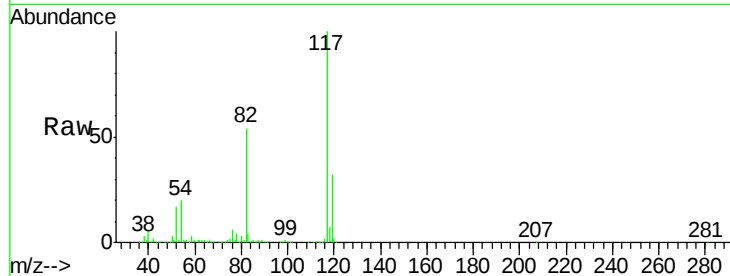




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

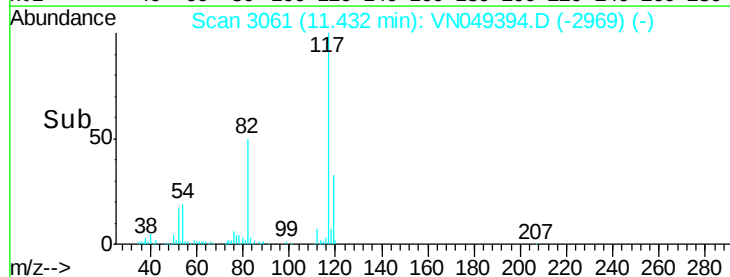
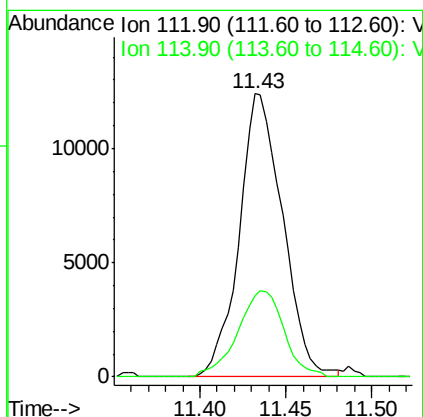
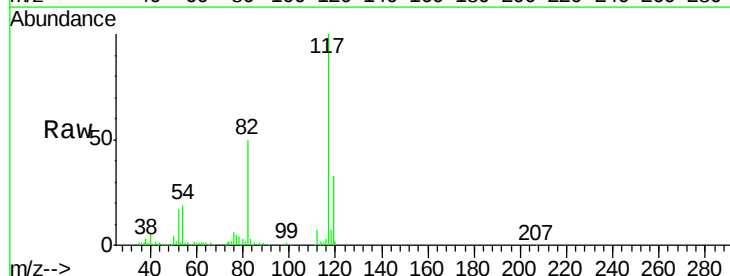
Instrument :
MSVOA_N
ClientSampled :

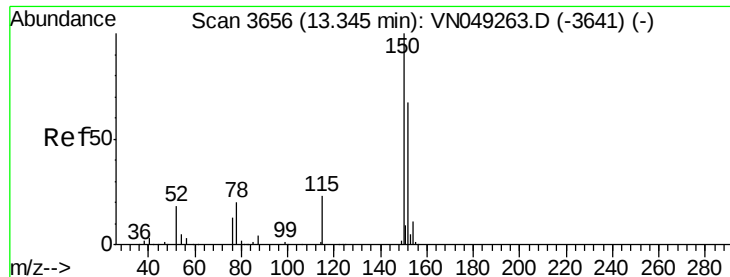
Tot Ion:117 Resp: 1606508
Ion Ratio Lower Upper
117 100
82 53.7 45.9 68.9
119 32.4 25.5 38.3



#65
Chlorobenzene
Concen: 0.53 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049394.D
Acq: 19 Jun 2018 19:04

Tgt Ion:112 Resp: 21781
Ion Ratio Lower Upper
112 100
114 28.9 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

ClientSampled :

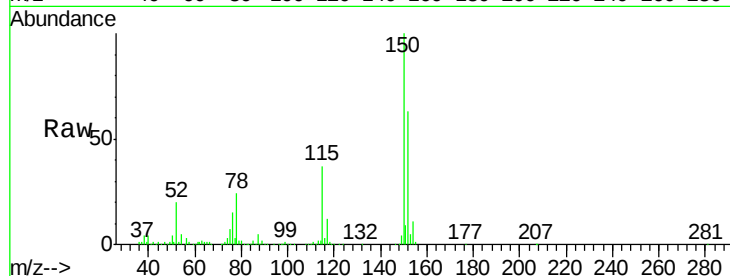
Tot Ion:152 Resp: 450280

Ion Ratio Lower Upper

152 100

115 57.2 28.7 86.1

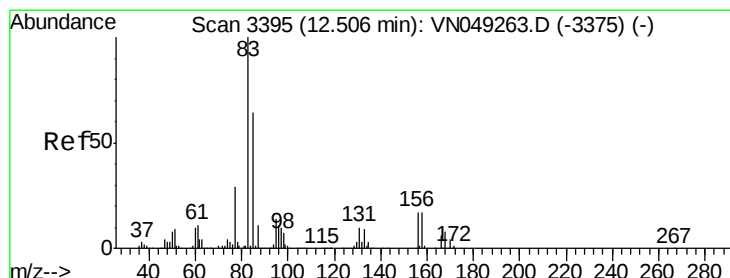
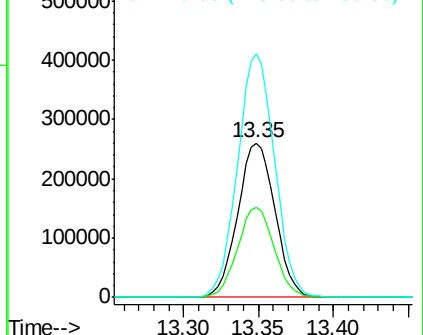
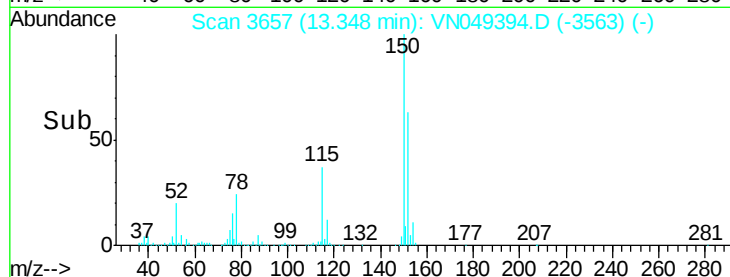
150 157.3 0.0 351.0



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: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

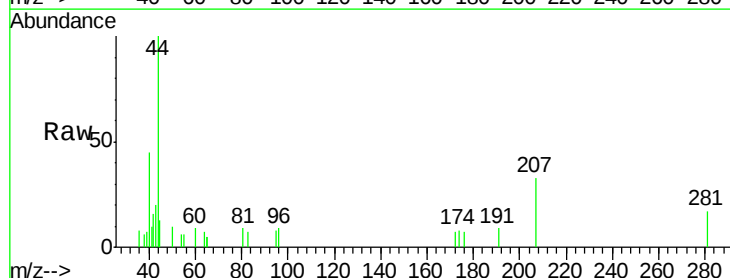
Tgt Ion: 83 Resp: 110

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

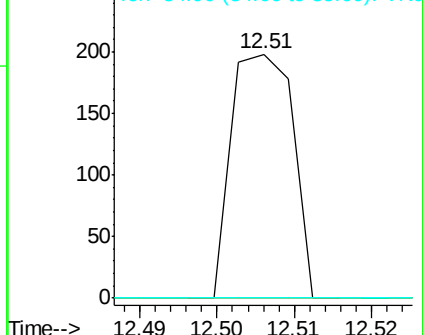
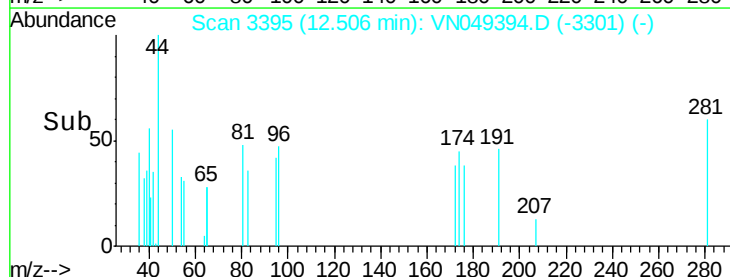
85 0.0 32.0 96.0#

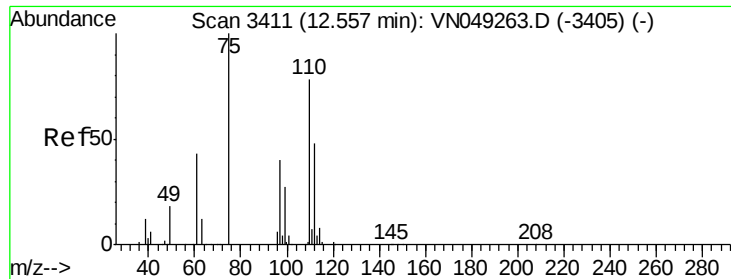


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

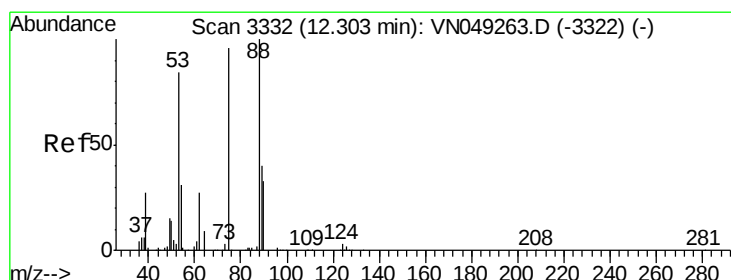
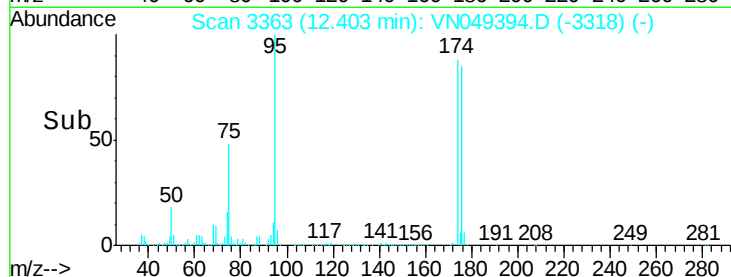
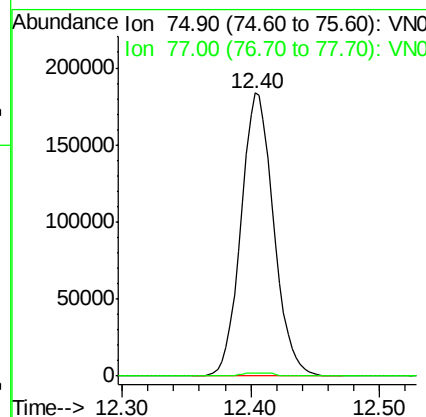
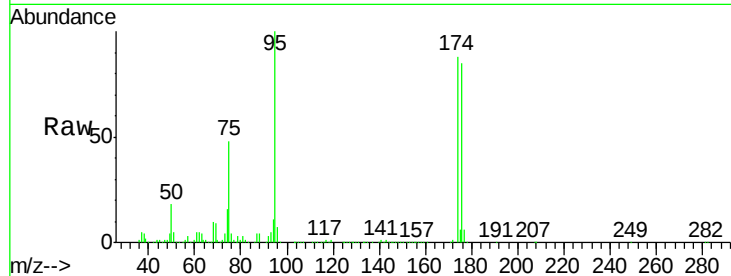




#76
 1,2,3-Trichloropropane
 Concen: 42.05 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

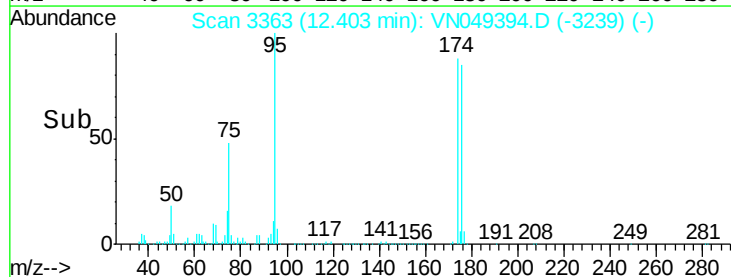
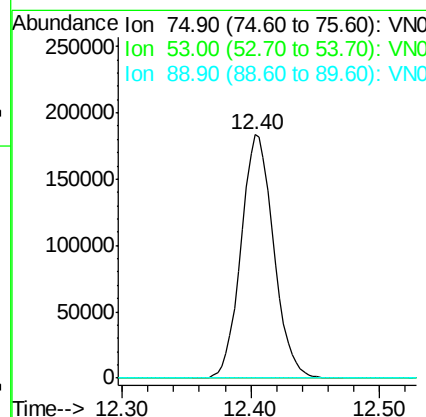
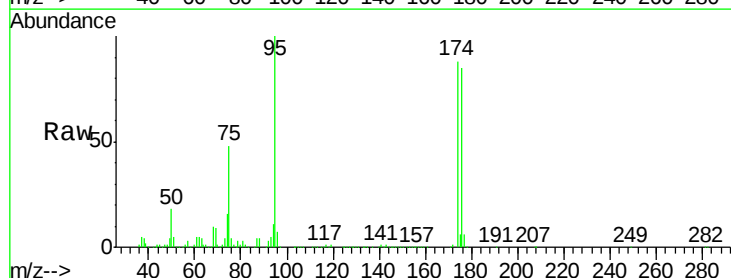
Instrument :
 MSVOA_N
 ClientSampled :

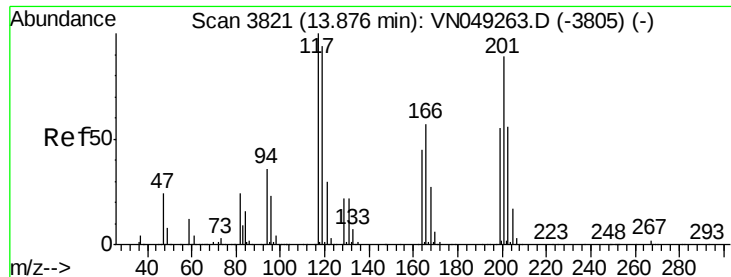
Tot Ion: 75 Resp: 323035
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.89 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Tgt Ion: 75 Resp: 323035
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.87 min Scan# 3818

Delta R.T. -0.01 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

Instrument :

MSVOA_N

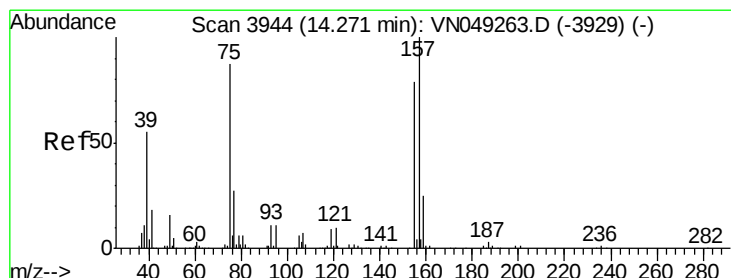
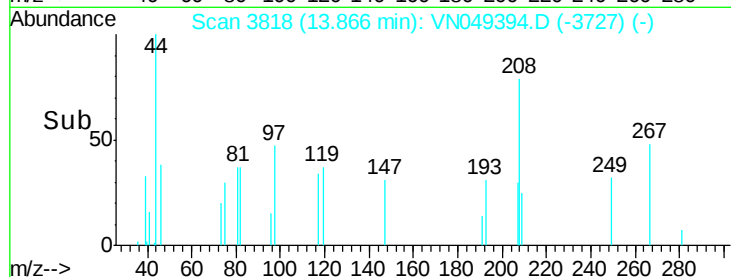
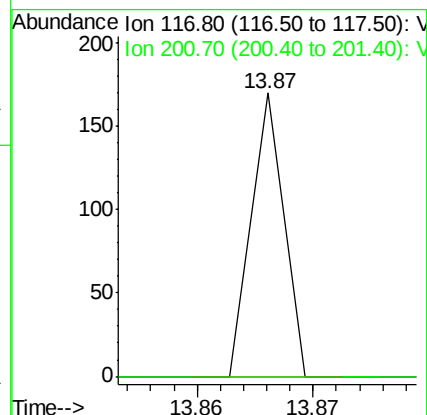
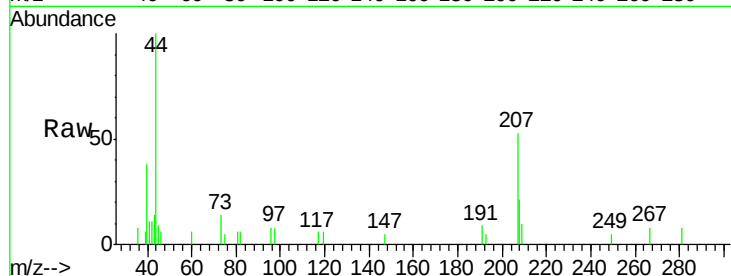
ClientSampleId :

Tot Ion:117 Resp: 33

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.55 ug/l

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN049394.D

Acq: 19 Jun 2018 19:04

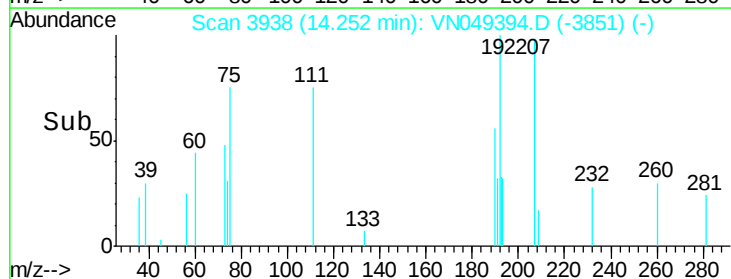
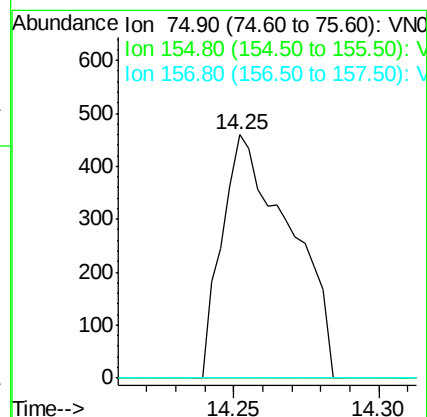
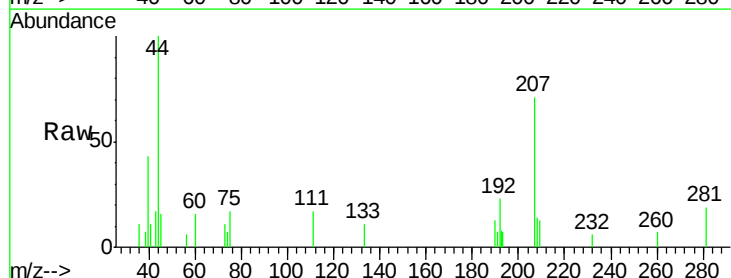
Tgt Ion: 75 Resp: 751

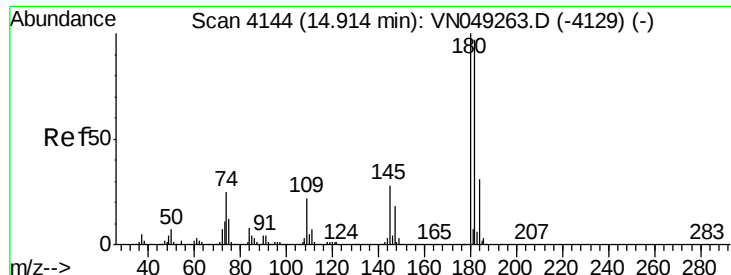
Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#

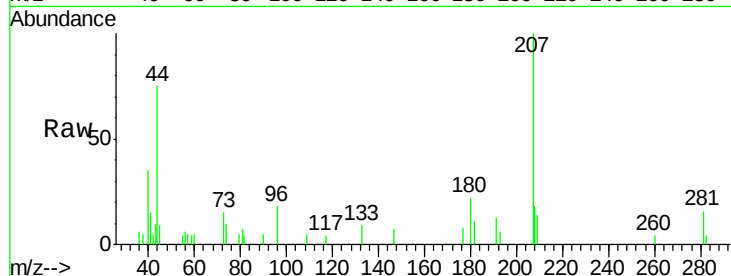




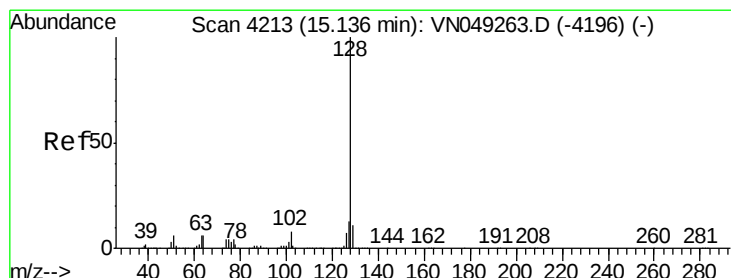
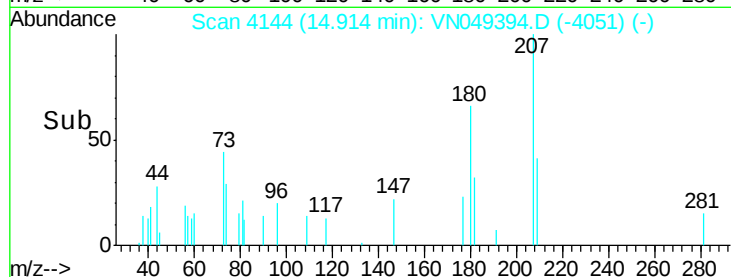
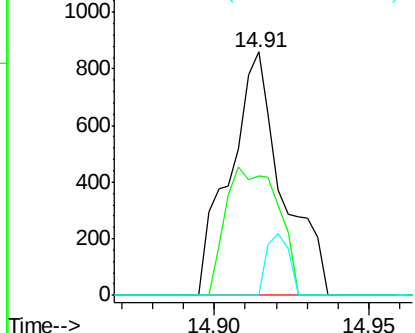
#93
 1,2,4-Trichlorobenzene
 Concen: 4.86 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1016
 Ion Ratio Lower Upper
 180 100
 182 52.7 46.9 140.8
 145 10.7 14.7 44.1#

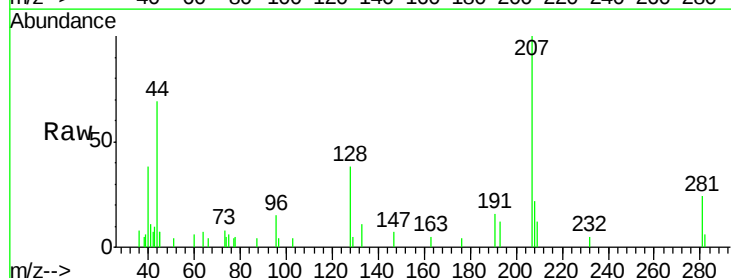


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

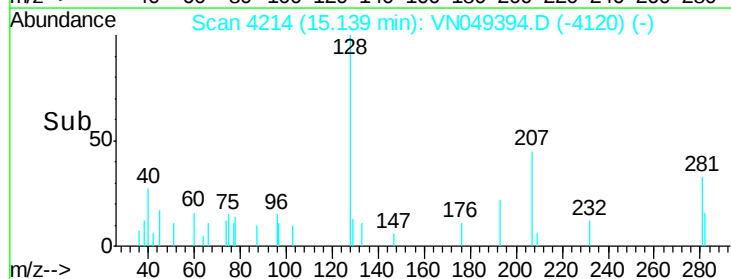
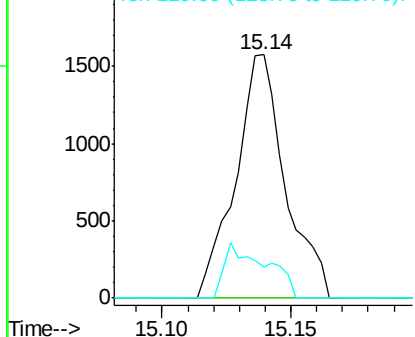


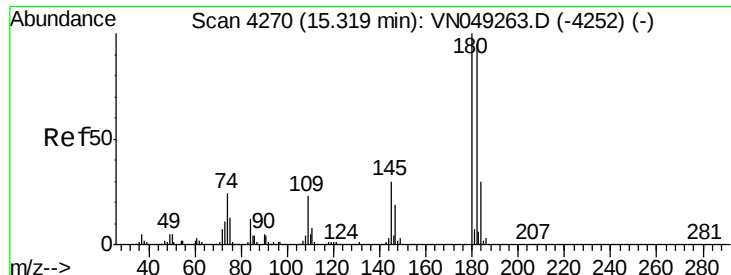
#95
 Naphthalene
 Concen: 2.25 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Tgt Ion:128 Resp: 2125
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 18.8 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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.51 ua/l
 RT: 15.31 min Scan# 4268
 Delta R.T. -0.01 min
 Lab File: VN049394.D
 Acq: 19 Jun 2018 19:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	138.1	47.3	141.8
145	46.8	15.6	46.7#

