

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049410.D
 Acq On : 20 Jun 2018 2:47
 Operator : MD\SY
 Sample : VN0619WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 06:04:15 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	1397676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2246439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1869957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	539415	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	958404	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
35) Dibromofluoromethane	7.59	113	853868	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	10.09	98	3084957	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	
62) 4-Bromofluorobenzene	12.40	95	787550	34.42	ug/l	0.00
Spiked Amount			Recovery	=	68.84%	

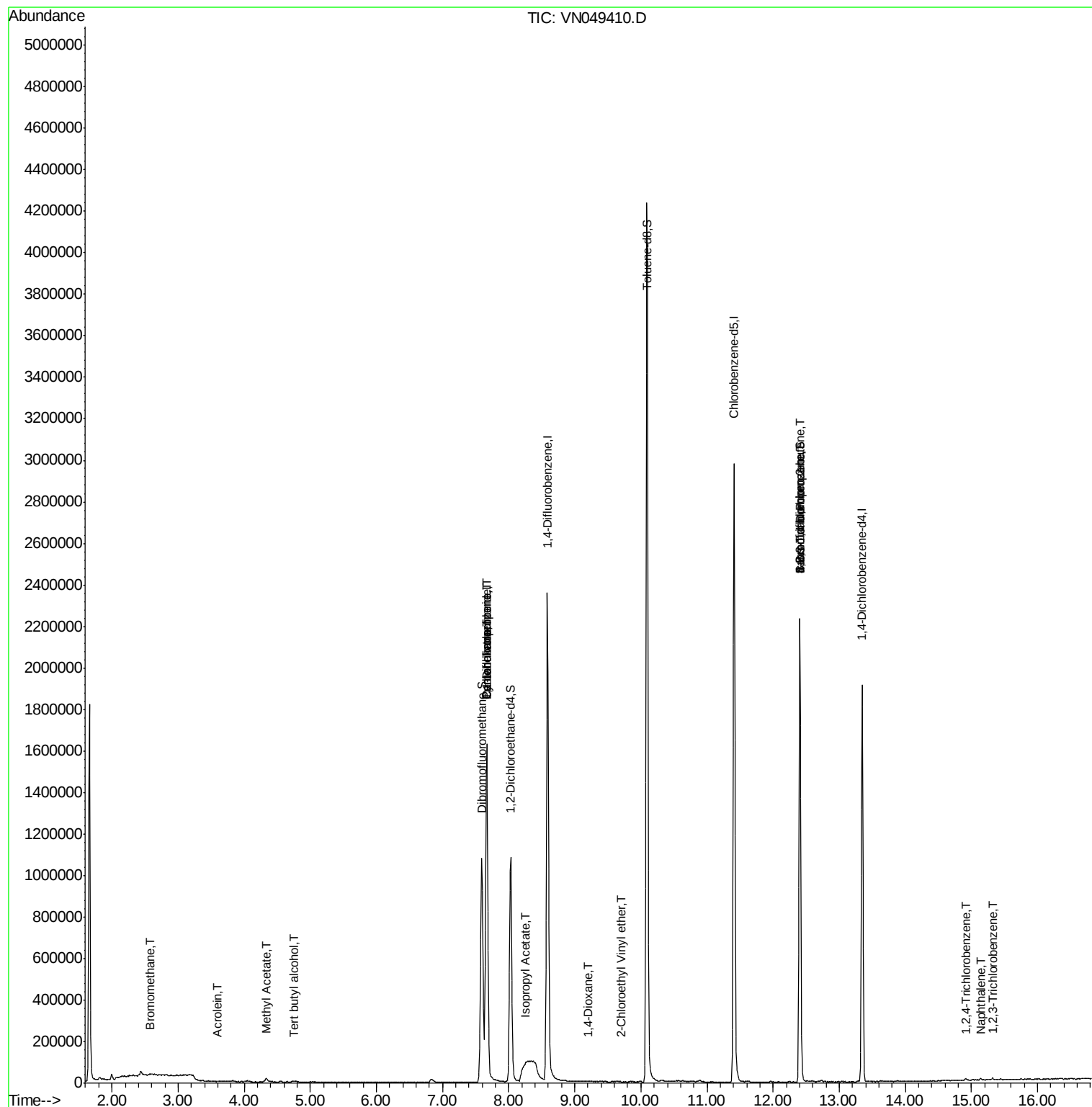
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	5161	0.44	ug/l	96
11) Tert butyl alcohol	4.74	59	3357	3.09	ug/l #	70
13) Acrolein	3.60	56	711	0.62	ug/l	98
18) Methyl Acetate	4.33	43	30871	2.25	ug/l	97
31) Cyclohexane	7.67	56	26013	0.78	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	97987	3.81	ug/l #	50
38) Carbon Tetrachloride	7.67	117	126630	4.75	ug/l #	17
43) Isopropyl Acetate	8.26	43	131855	4.93	ug/l #	64
49) 1,4-Dioxane	9.20	88	255	1.47	ug/l #	57
58) 2-Chloroethyl Vinyl ether	9.71	63	30	14.33	ug/l #	51
71) Bromoform	12.41	173	5908	0.50	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	314	Below	Cal #	74
76) 1,2,3-Trichloropropane	12.40	75	381862	41.49	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	381862	131.13	ug/l #	9
90) Hexachloroethane	13.88	117	145	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	1785	4.92	ug/l	88
94) Hexachlorobutadiene	15.02	225	999	Below	Cal	82
95) Naphthalene	15.14	128	4988	2.41	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	2392	3.70	ug/l	85

(#) = 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: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

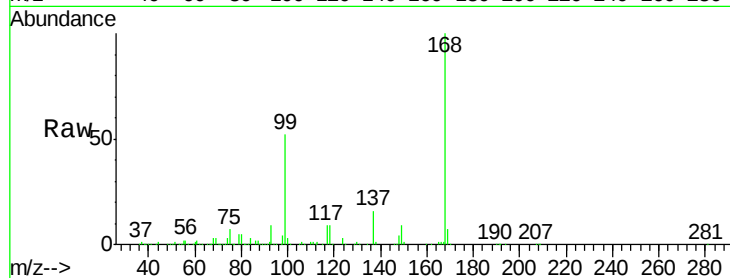
ClientSampleId :

Tot Ion:168 Resp: 1397676

Ion Ratio Lower Upper

168 100

99 51.5 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

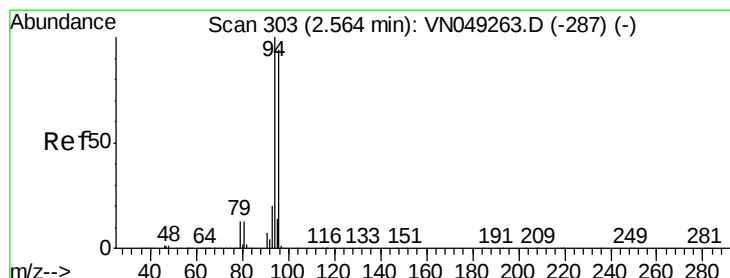
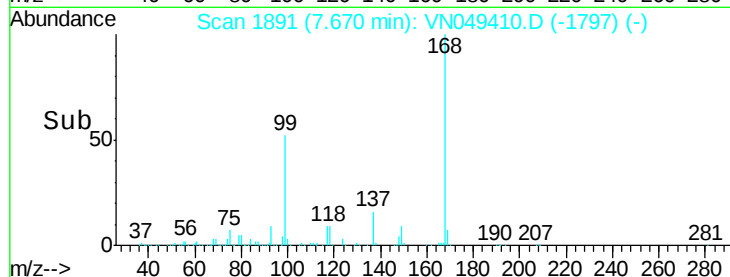
600000

400000

200000

0

Time-->



#5

Bromomethane

Concen: 0.44 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049410.D

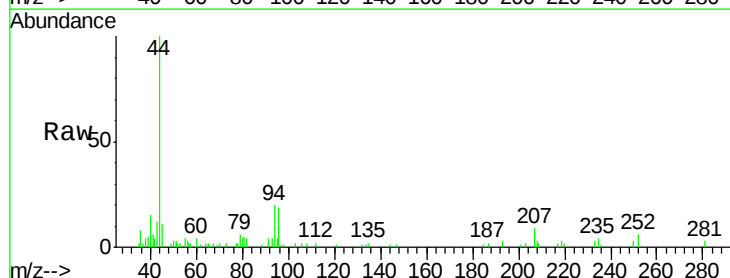
Acq: 20 Jun 2018 2:47

Tgt Ion: 94 Resp: 5161

Ion Ratio Lower Upper

94 100

96 87.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

3000

2500

2000

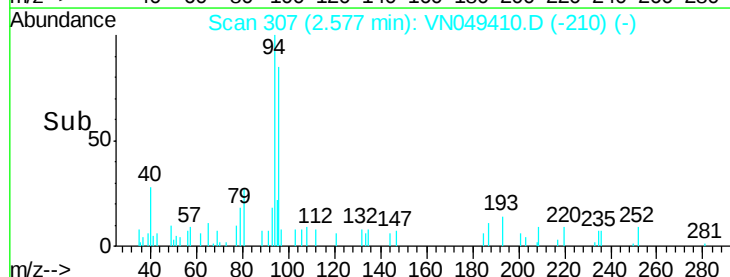
1500

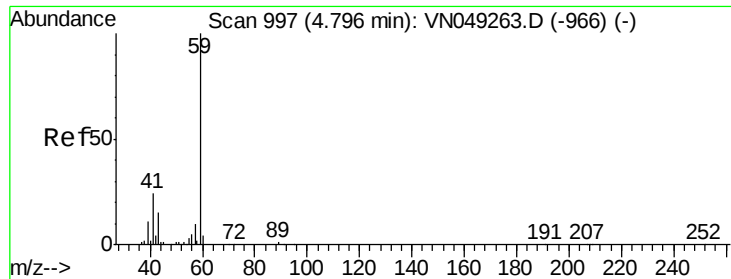
1000

500

0

Time-->

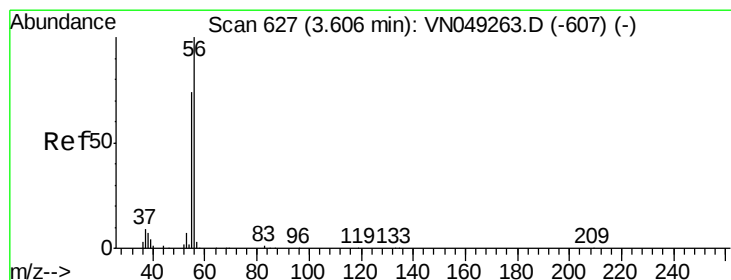
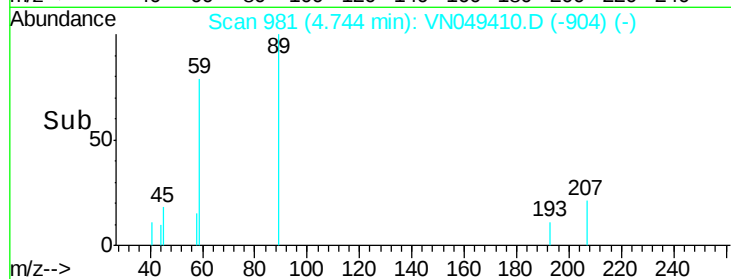
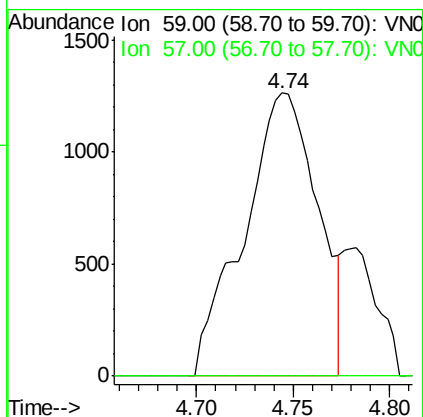
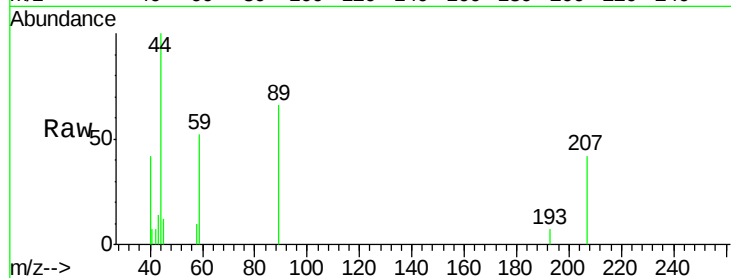




#11
Tert butyl alcohol
Concen: 3.09 ug/l
RT: 4.74 min Scan# 981
Delta R.T. -0.05 min
Lab File: VN049410.D
Acq: 20 Jun 2018 2:47

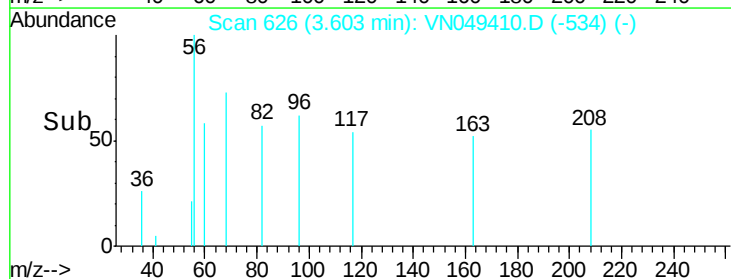
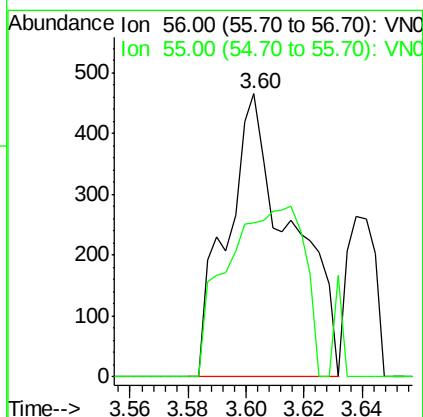
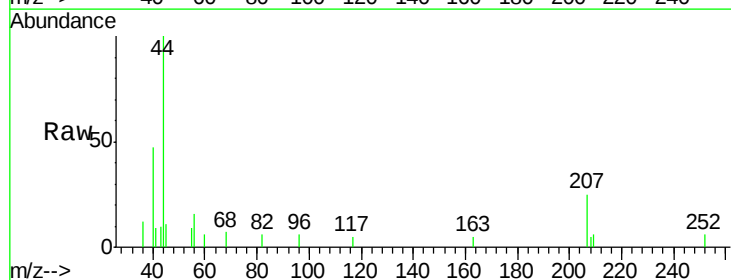
Instrument :
MSVOA_N
ClientSampled :

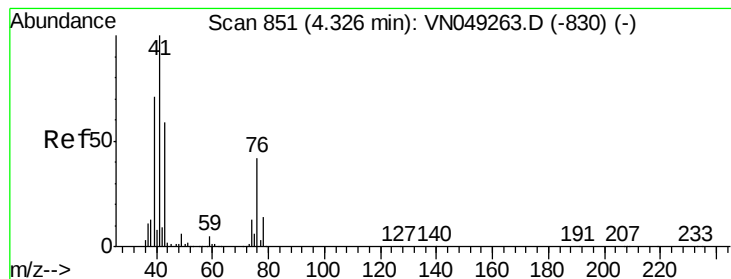
Tot Ion: 59 Resp: 3357
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 0.62 ug/l
RT: 3.60 min Scan# 626
Delta R.T. -0.00 min
Lab File: VN049410.D
Acq: 20 Jun 2018 2:47

Tgt Ion: 56 Resp: 711
Ion Ratio Lower Upper
56 100
55 73.1 57.1 85.7





#18

Methvl Acetate

Concen: 2.25 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

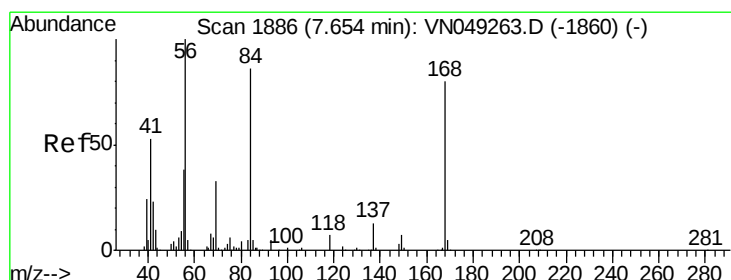
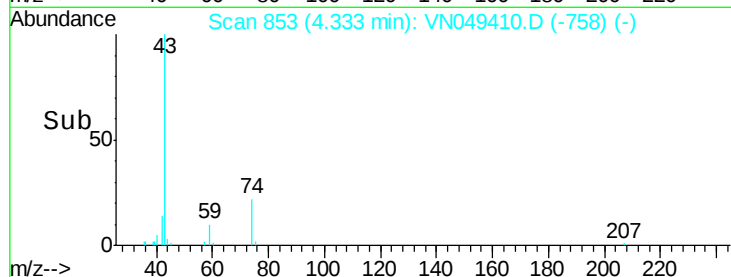
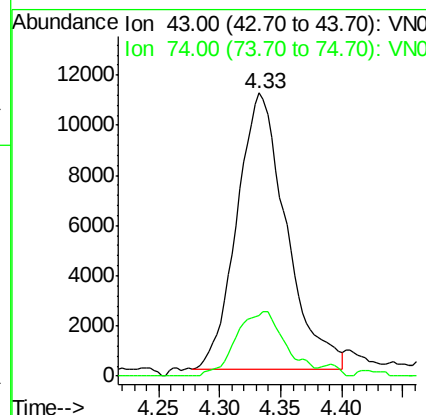
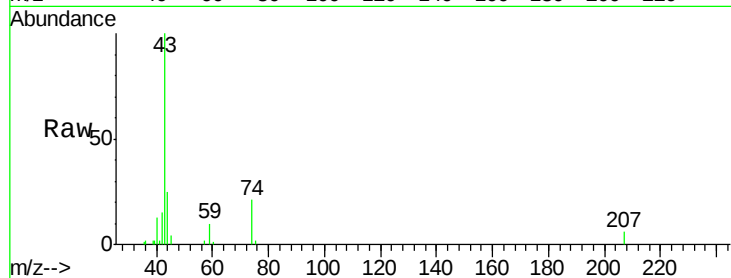
ClientSampleId :

Tot Ion: 43 Resp: 30871

Ion Ratio Lower Upper

43 100

74 23.3 17.4 26.0



#31

Cyclohexane

Concen: 0.78 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

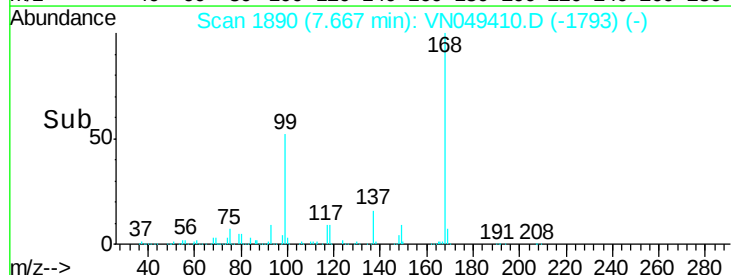
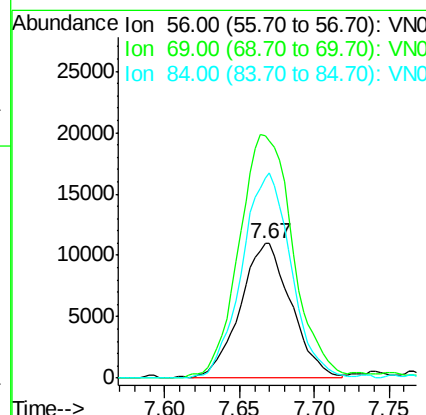
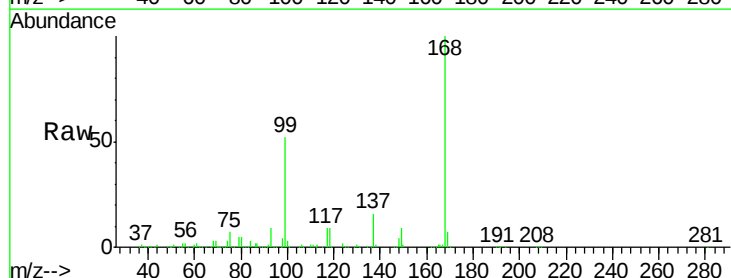
Tgt Ion: 56 Resp: 26013

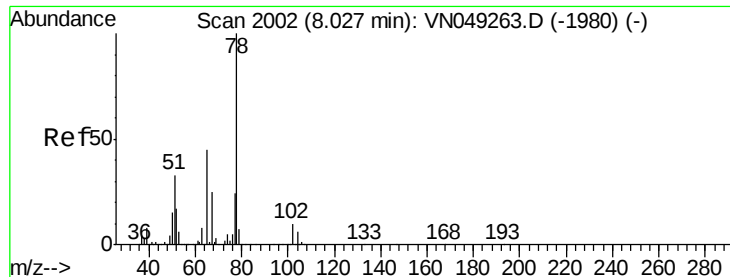
Ion Ratio Lower Upper

56 100

69 177.9 25.0 37.4#

84 147.7 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 51.70 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

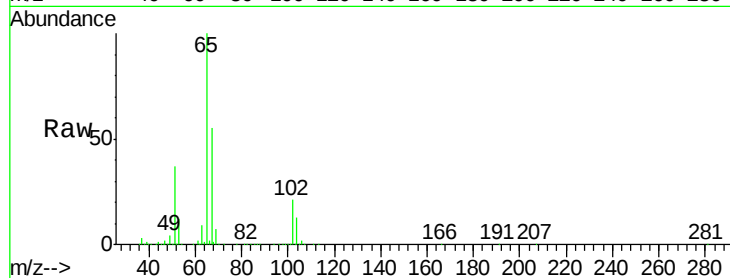
ClientSampleId :

Tot Ion: 65 Resp: 958404

Ion Ratio Lower Upper

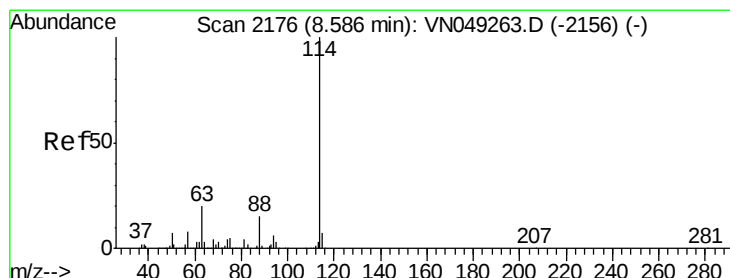
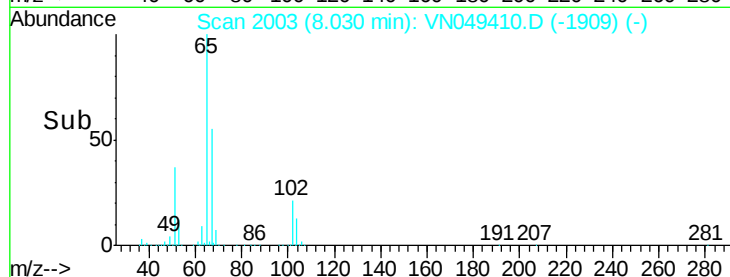
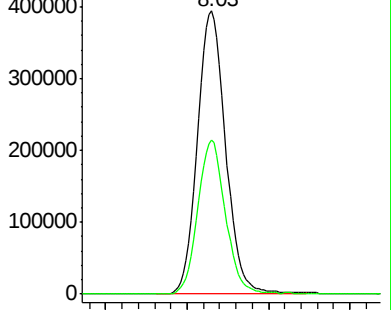
65 100

67 53.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049410.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049410.D (-1909) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

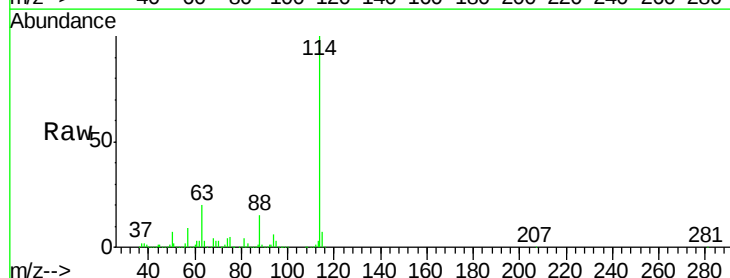
Tgt Ion: 114 Resp: 2246439

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

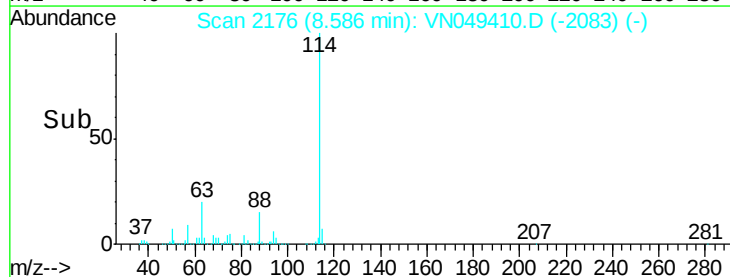
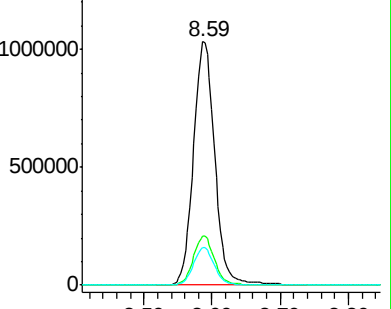
88 15.4 0.0 31.4

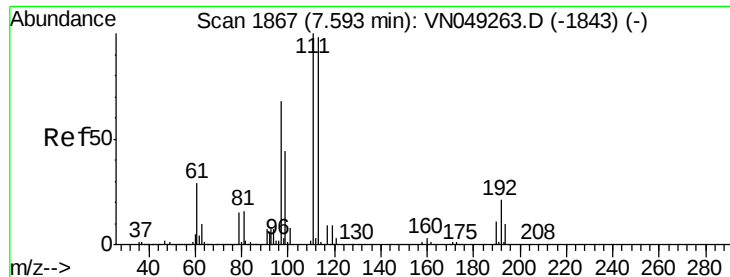


Abundance Ion 113.90 (113.60 to 114.60): VN049410.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049410.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049410.D (-2083) (-)

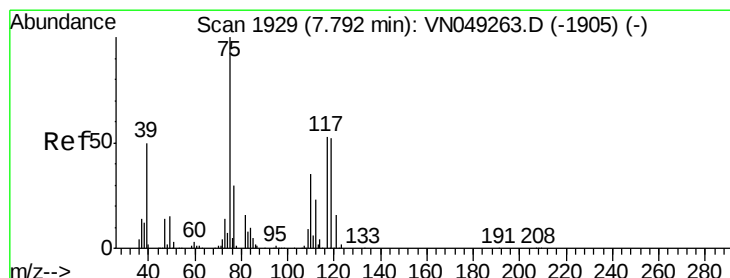
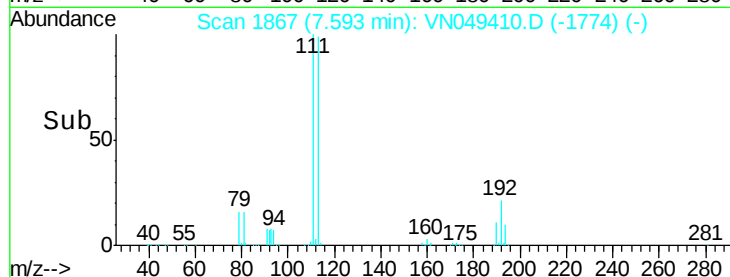
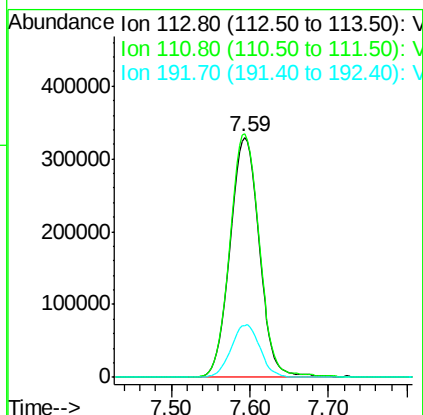
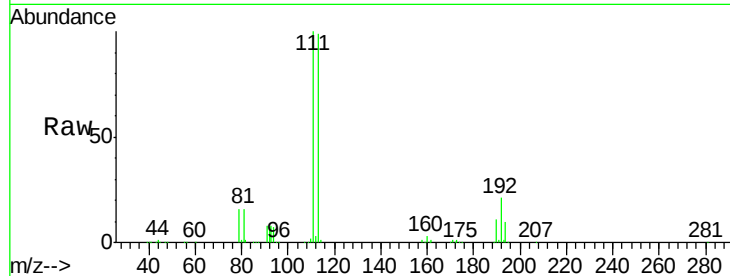




#35
 Dibromofluoromethane
 Concen: 46.98 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

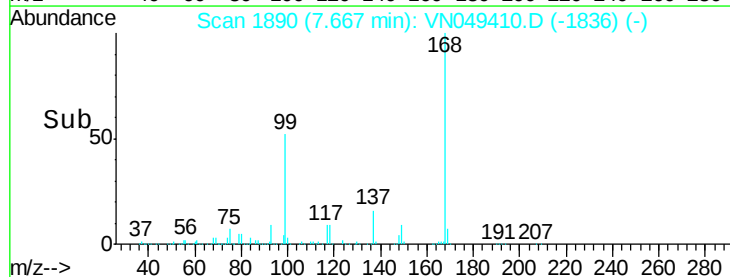
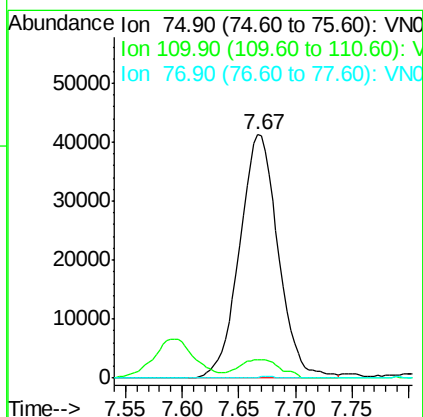
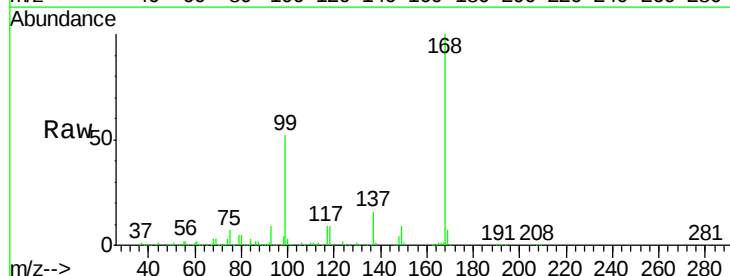
Instrument :
 MSVOA_N
 ClientSampleId :

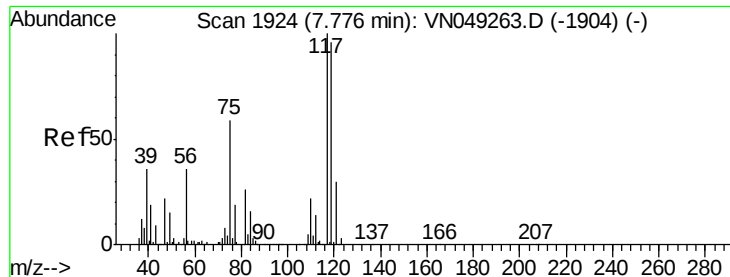
Tot Ion:113 Resp: 853868
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.4 123.6
 192 21.8 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

Tgt Ion: 75 Resp: 97987
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.0 50.9#
 77 0.3 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.75 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

ClientSampleId :

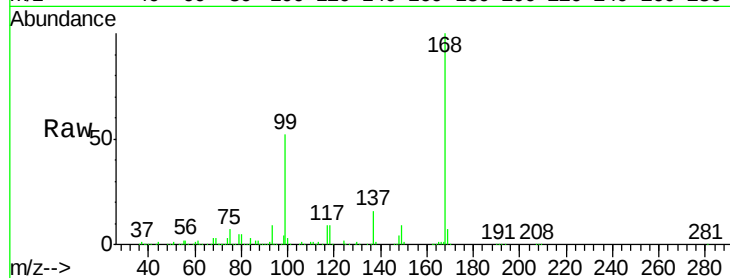
Tot Ion:117 Resp: 126630

Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

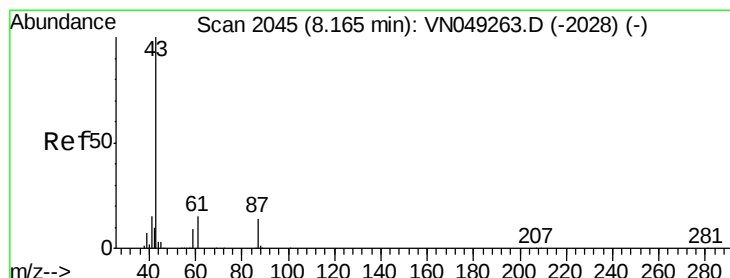
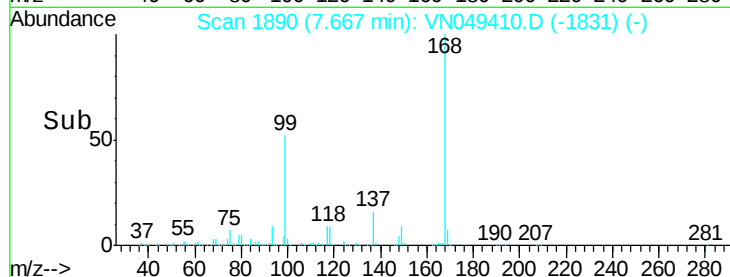
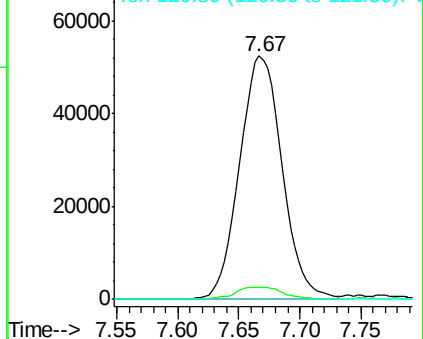
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 4.93 ug/l

RT: 8.26 min Scan# 2074

Delta R.T. 0.09 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

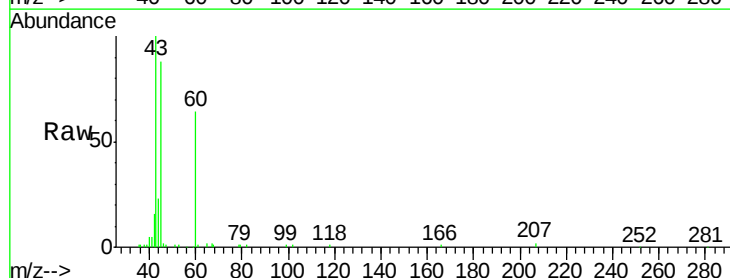
Tgt Ion: 43 Resp: 131855

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

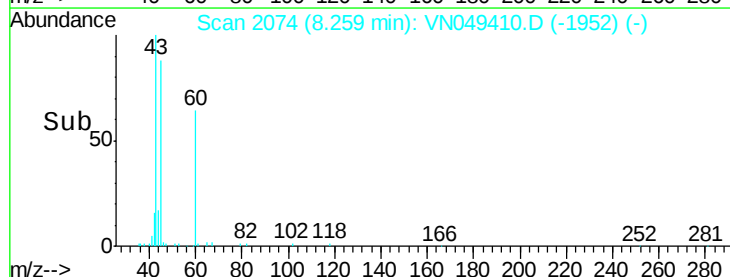
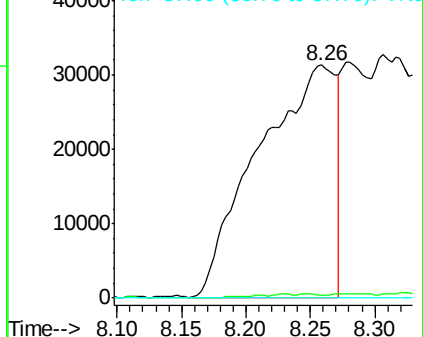
87 0.0 9.4 14.0#

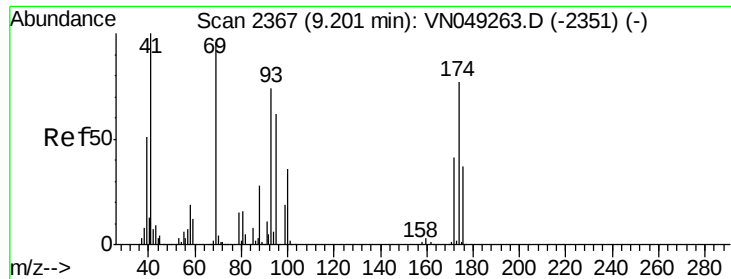


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

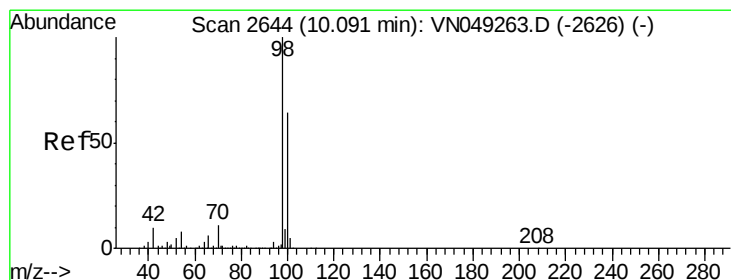
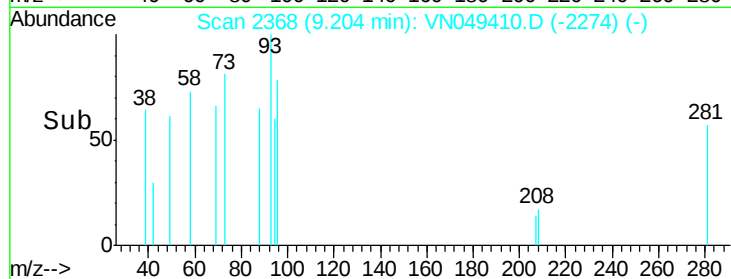
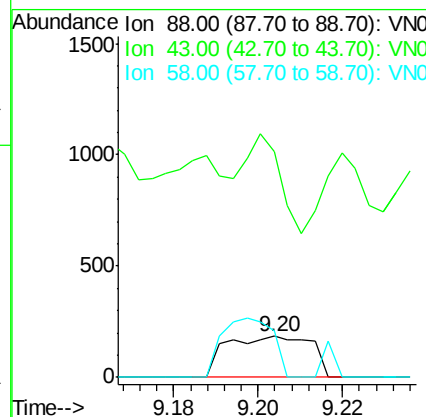
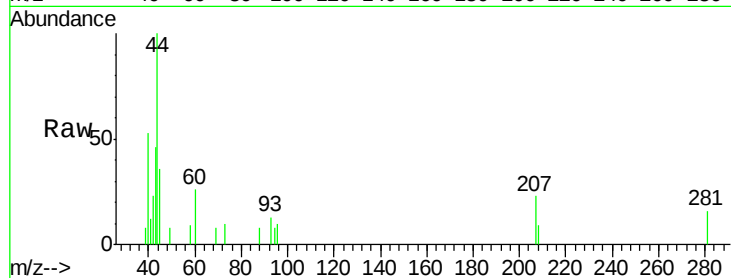




#49
 1,4-Dioxane
 Concen: 1.47 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

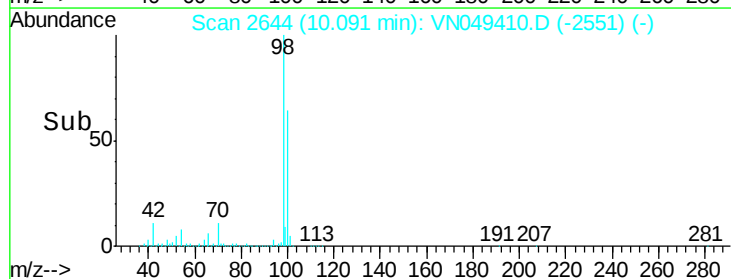
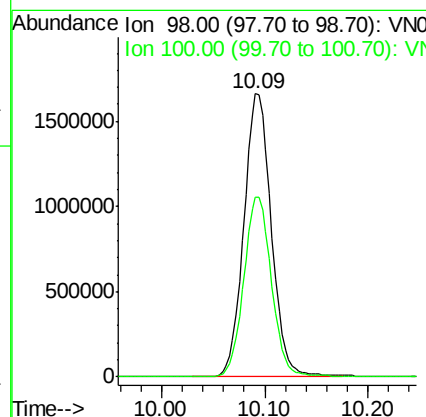
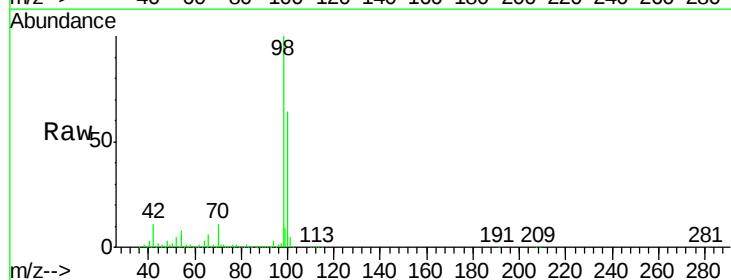
Instrument :
 MSVOA_N
 ClientSampled :

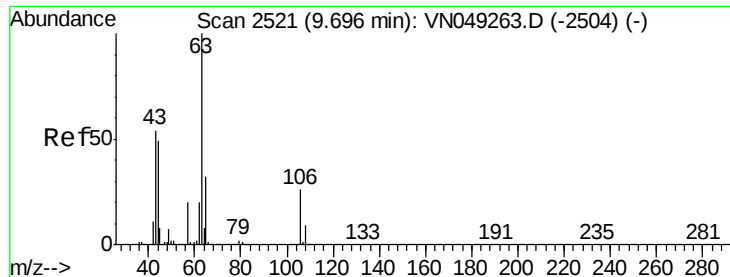
Tot Ion: 88 Resp: 255
 Ion Ratio Lower Upper
 88 100
 43 96.1 30.9 46.3#
 58 87.1 58.9 88.3



#50
 Toluene-d8
 Concen: 44.58 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. 0.00 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

Tgt Ion: 98 Resp: 3084957
 Ion Ratio Lower Upper
 98 100
 100 64.0 49.8 74.8





#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.71 min Scan# 2525

Delta R.T. 0.01 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

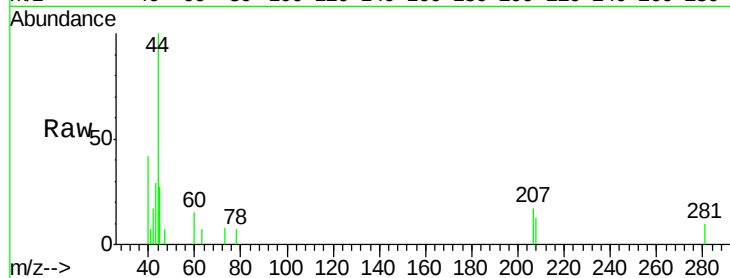
ClientSampleId :

Tot Ion: 63 Resp: 30

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049410.D (-2427) (-)

Ion 105.90 (105.60 to 106.60): VN049410.D (-2427) (-)

9.71

150

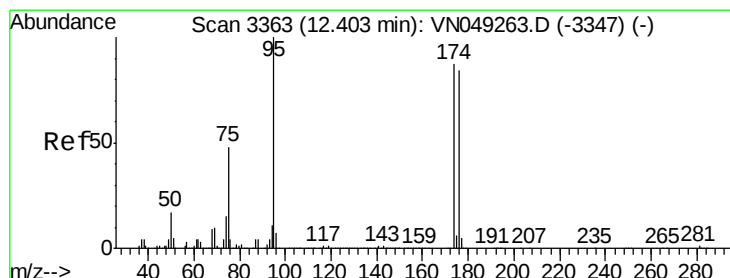
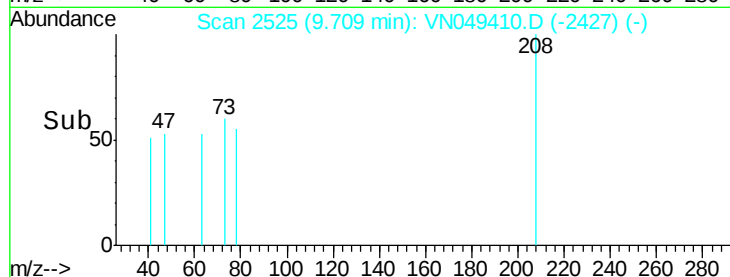
100

50

0

9.70 9.71 9.71 9.71

Time-->



#62

4-Bromofluorobenzene

Concen: 34.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

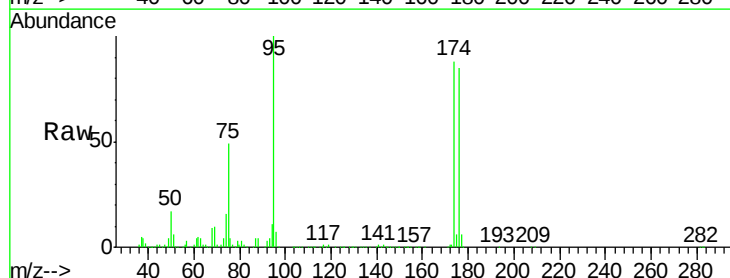
Tgt Ion: 95 Resp: 787550

Ion Ratio Lower Upper

95 100

174 89.5 0.0 165.6

176 85.7 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049410.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049410.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049410.D (-3270) (-)

600000

500000

400000

300000

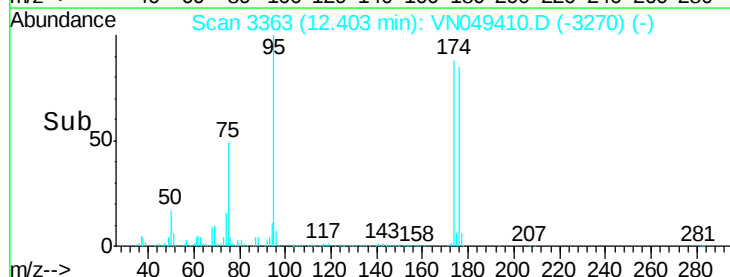
200000

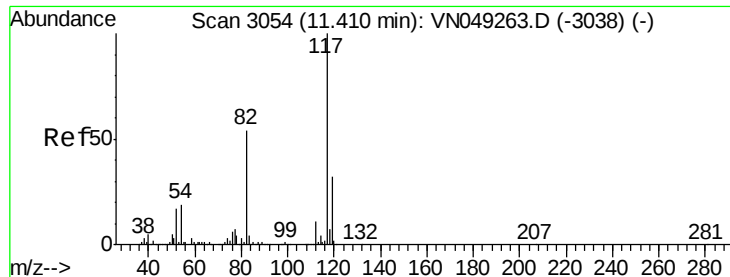
100000

0

12.30 12.40 12.50

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

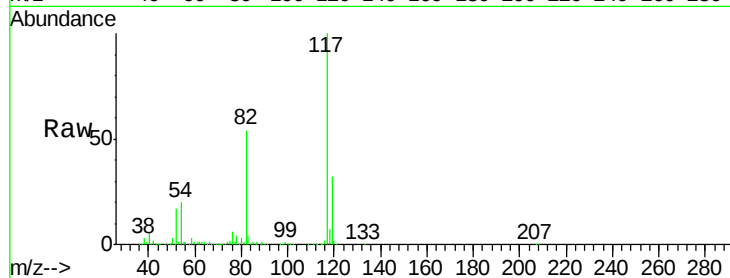
Instrument :

MSVOA_N

ClientSampled :

Tot Ion:117 Resp: 1869957

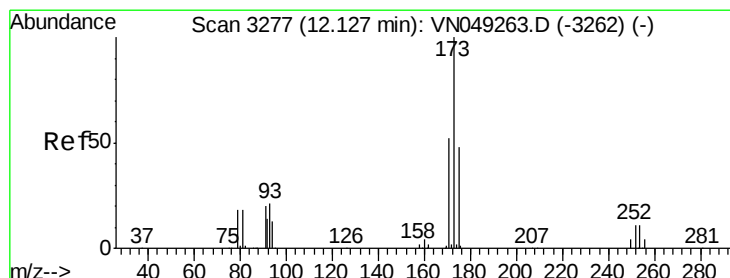
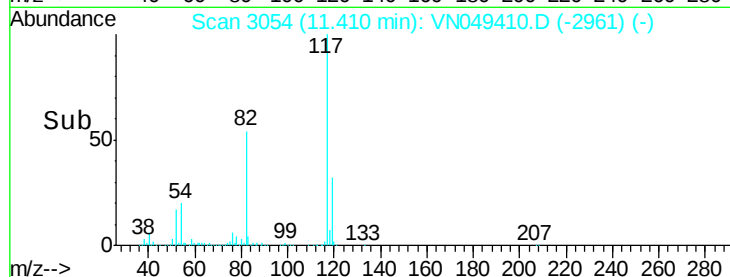
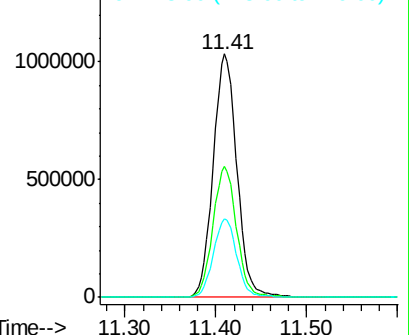
Ion	Ratio	Lower	Upper
117	100		
82	53.7	45.9	68.9
119	32.4	25.5	38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.50 ug/l

RT: 12.41 min Scan# 3364

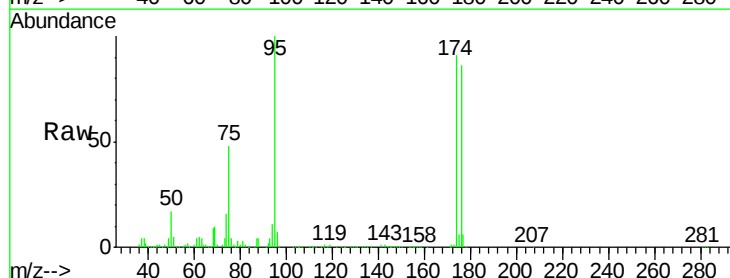
Delta R.T. 0.28 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Tgt Ion:173 Resp: 5908

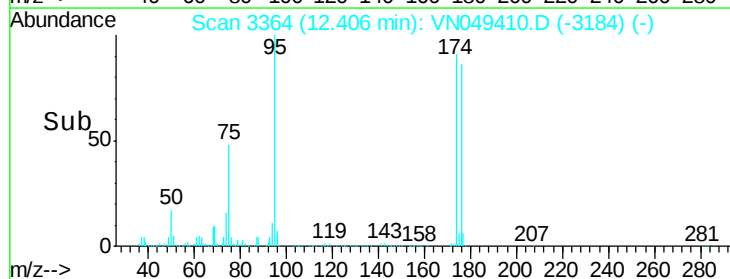
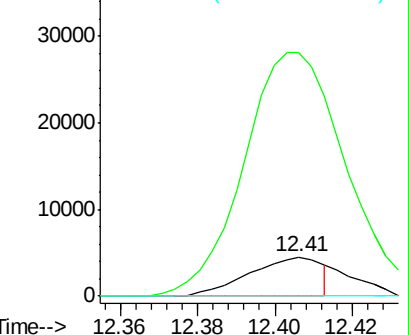
Ion	Ratio	Lower	Upper
173	100		
175	668.7	24.5	73.5#
254	0.0	0.1	0.1#

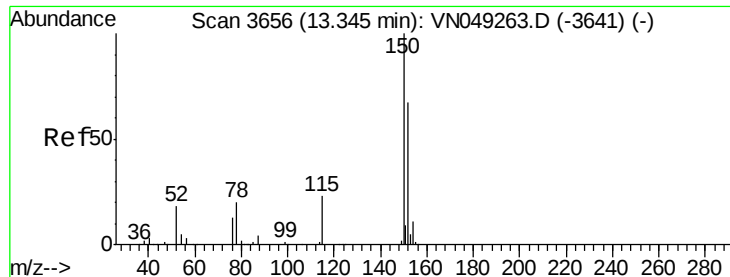


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

ClientSampleId :

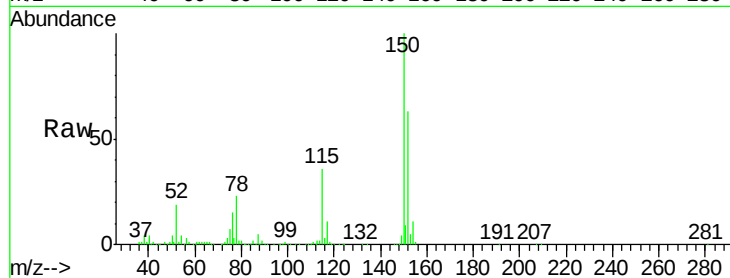
Tot Ion:152 Resp: 539415

Ion Ratio Lower Upper

152 100

115 56.6 28.7 86.1

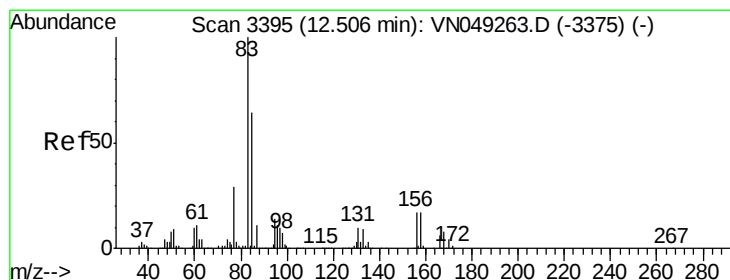
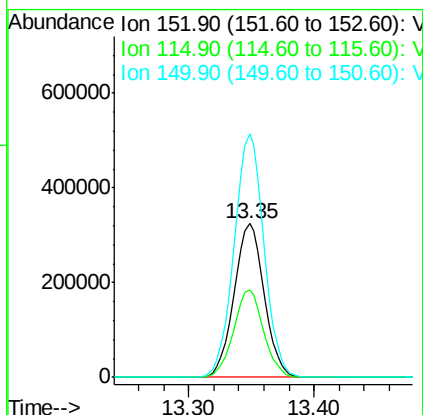
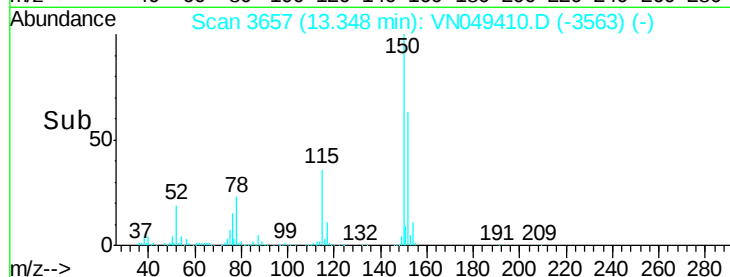
150 157.3 0.0 351.0



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: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

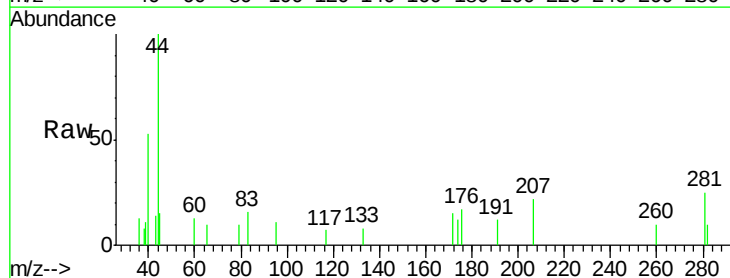
Tgt Ion: 83 Resp: 314

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

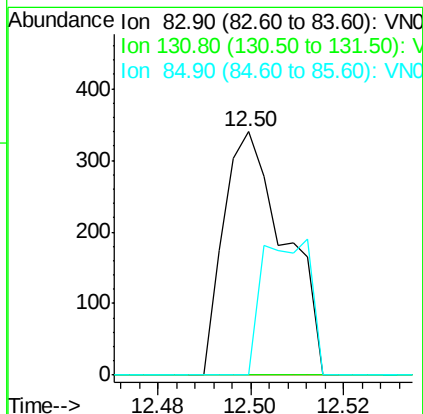
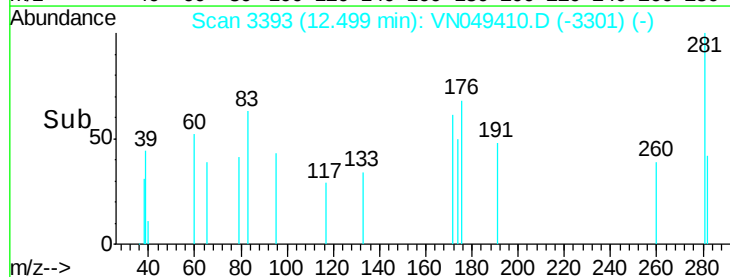
85 43.9 32.0 96.0

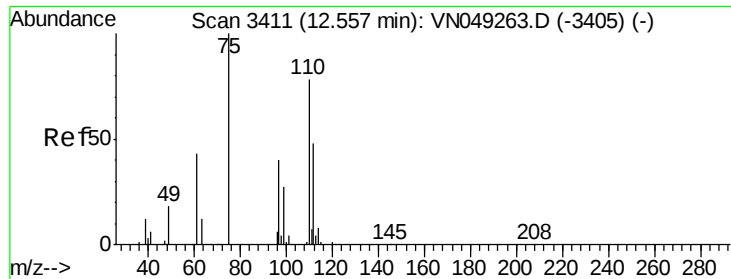


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

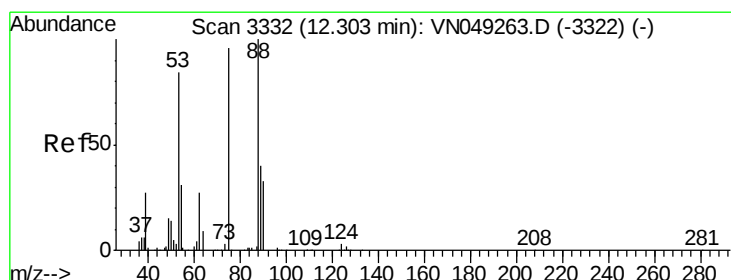
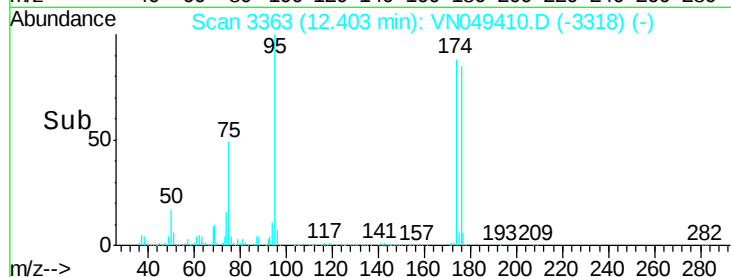
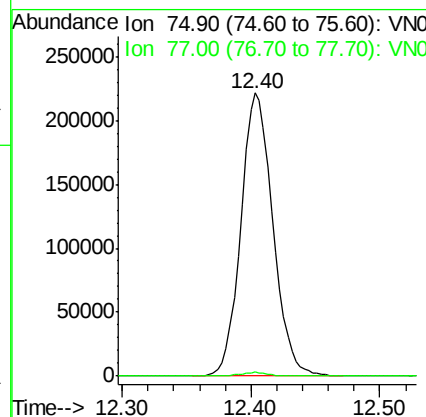
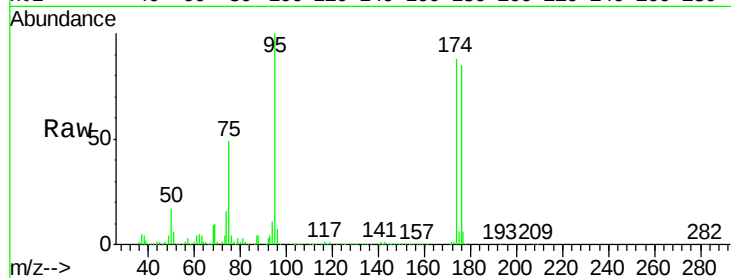




#76
 1,2,3-Trichloropropane
 Concen: 41.49 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

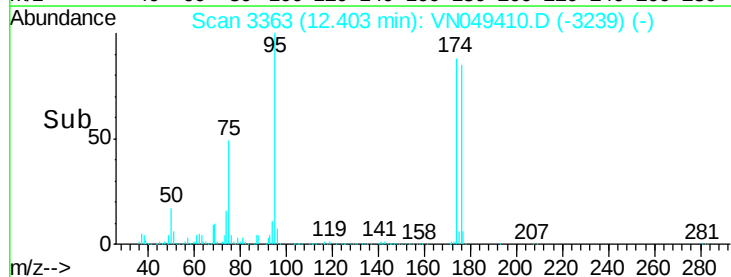
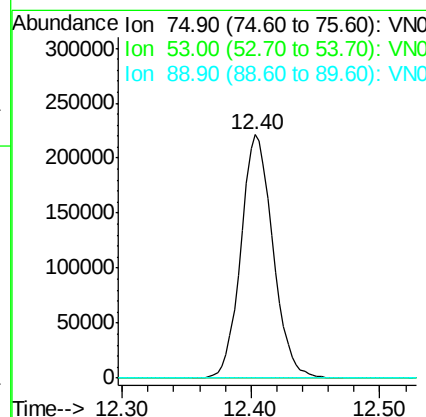
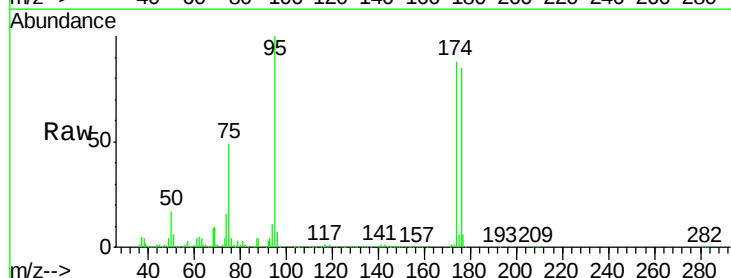
Instrument :
 MSVOA_N
 ClientSampled :

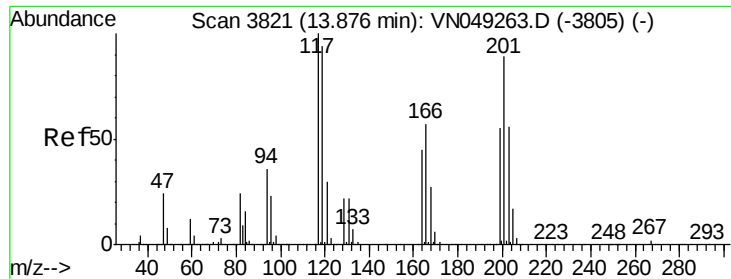
Tot Ion: 75 Resp: 381862
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.13 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

Tgt Ion: 75 Resp: 381862
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.0 36.5 54.7#

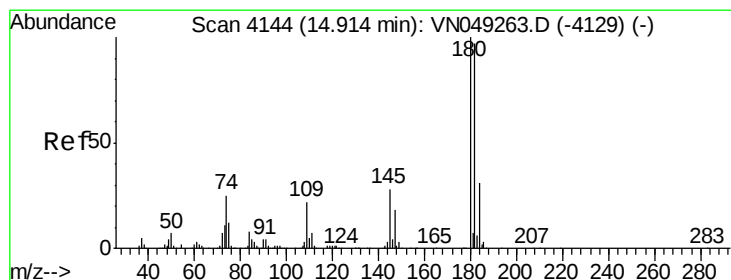
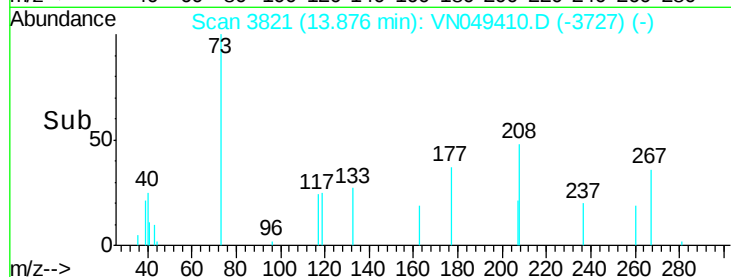
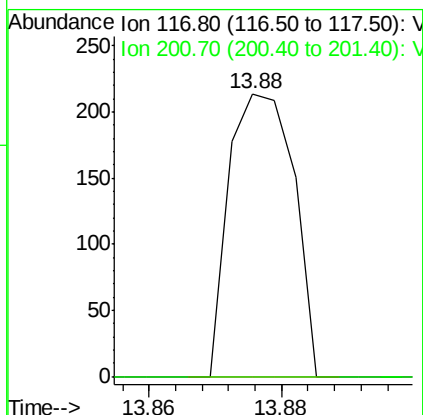
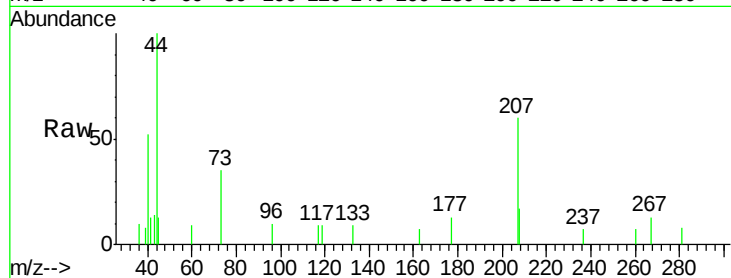




#90
Hexachloroethane
Concen: Below Cal
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049410.D
Acq: 20 Jun 2018 2:47

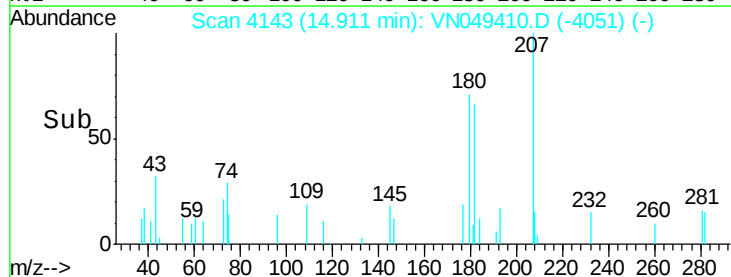
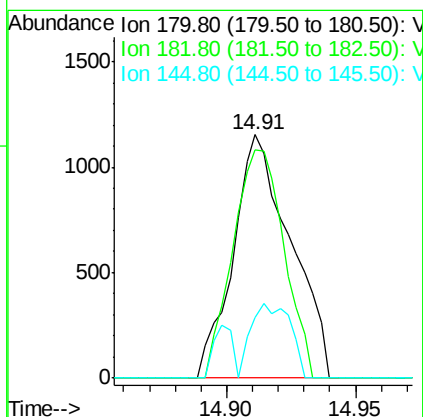
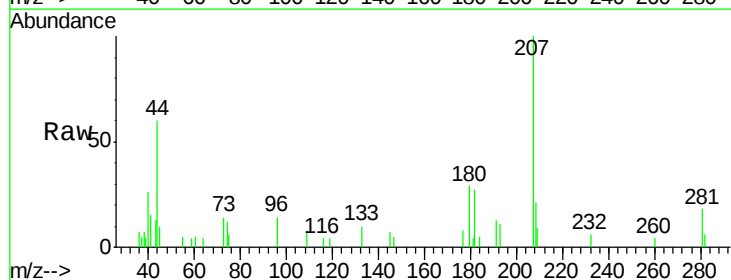
Instrument :
MSVOA_N
ClientSampled :

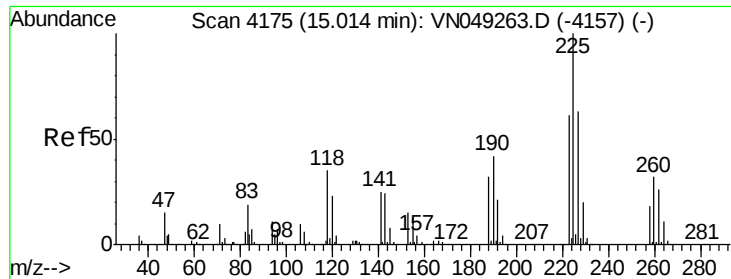
Tot Ion:117 Resp: 145
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.2#



#93
1,2,4-Trichlorobenzene
Concen: 4.92 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. -0.00 min
Lab File: VN049410.D
Acq: 20 Jun 2018 2:47

Tgt Ion:180 Resp: 1785
Ion Ratio Lower Upper
180 100
182 83.6 46.9 140.8
145 21.1 14.7 44.1





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.02 min Scan# 4176

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

Instrument :

MSVOA_N

ClientSampled :

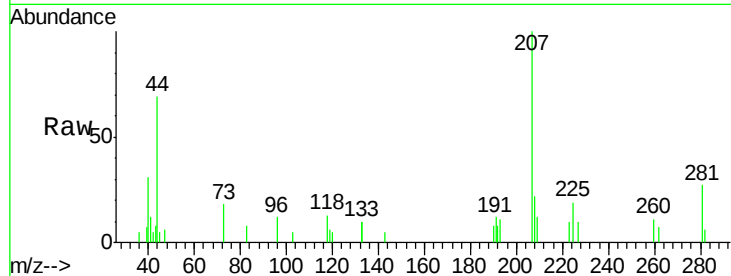
Tot Ion:225 Resp: 999

Ion Ratio Lower Upper

225 100

223 43.7 32.1 96.3

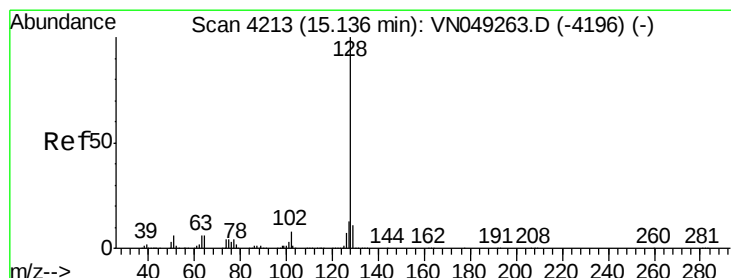
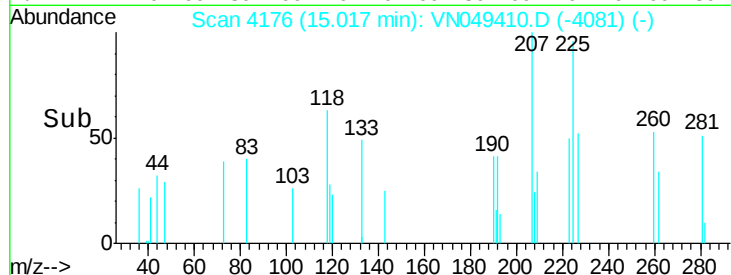
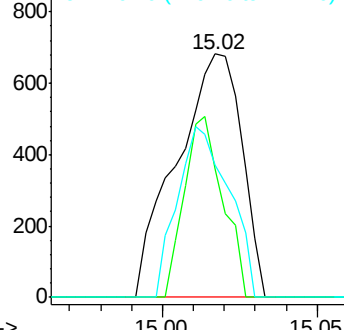
227 55.4 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.41 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049410.D

Acq: 20 Jun 2018 2:47

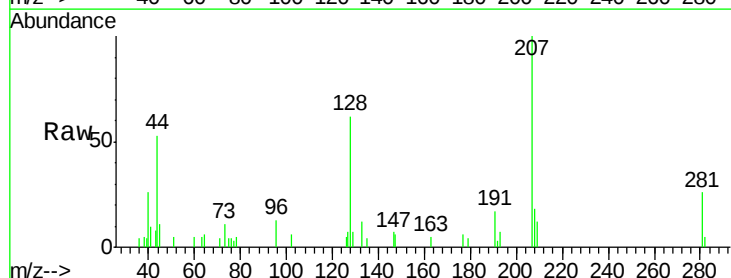
Tgt Ion:128 Resp: 4988

Ion Ratio Lower Upper

128 100

127 8.0 10.6 16.0#

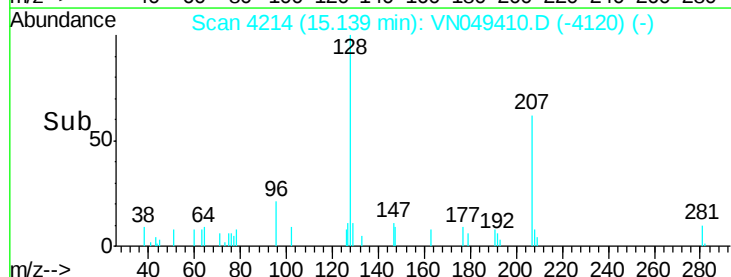
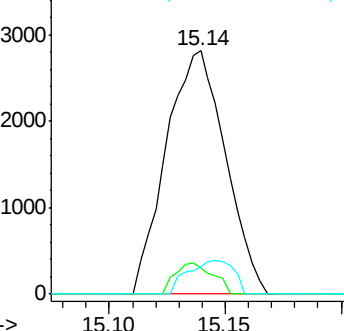
129 10.6 8.5 12.7

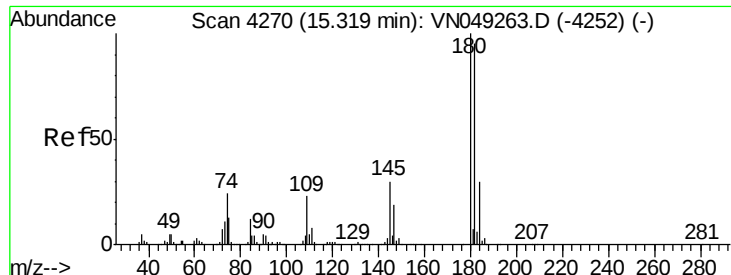


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

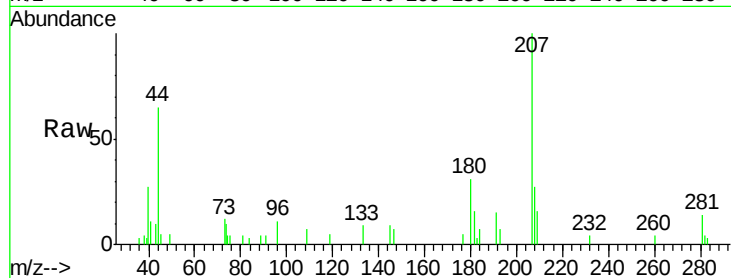




#96
 1,2,3-Trichlorobenzene
 Concen: 3.70 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. -0.01 min
 Lab File: VN049410.D
 Acq: 20 Jun 2018 2:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	80.3	47.3	141.8
145	23.2	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

