

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049621.D
 Acq On : 29 Jun 2018 5:34
 Operator : MD\SY
 Sample : J3612-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 08:37:22 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	1165555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1893563	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1601953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	576970	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	780171	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
35) Dibromofluoromethane	7.59	113	88144	5.75	ug/l	0.00
Spiked Amount			Recovery	=	11.50%	
50) Toluene-d8	10.09	98	2569916	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	
62) 4-Bromofluorobenzene	12.40	95	729208	37.81	ug/l	0.00
Spiked Amount			Recovery	=	75.62%	

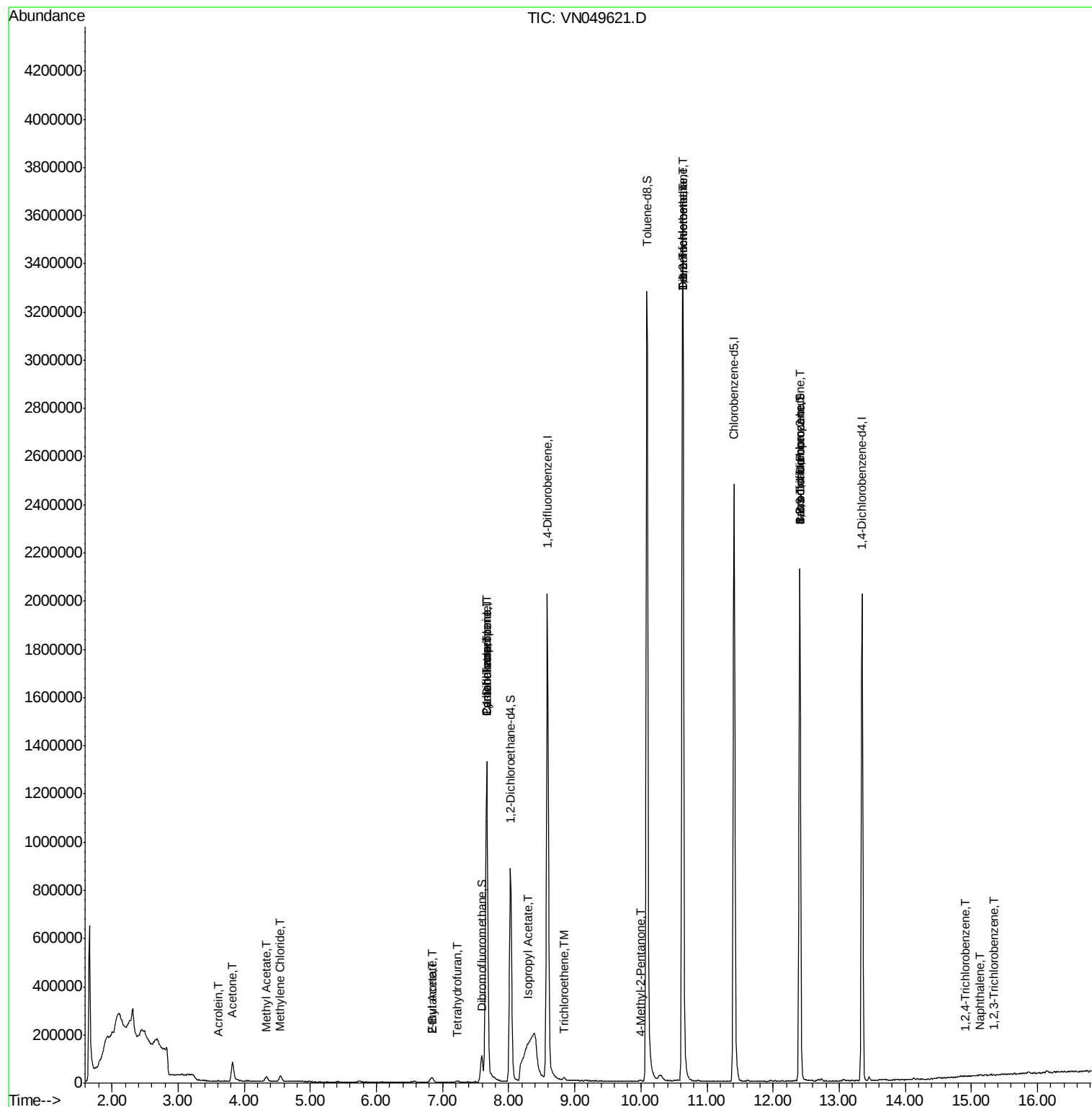
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	975	1.02	ug/l #	1
16) Acetone	3.82	43	140669	37.48	ug/l #	88
18) Methyl Acetate	4.34	43	40336	3.52	ug/l	99
20) Methylene Chloride	4.55	84	17959	1.15	ug/l #	79
25) 2-Butanone	6.84	43	14730	2.92	ug/l	99
29) Tetrahydrofuran	7.22	42	1855	0.57	ug/l #	76
31) Cyclohexane	7.67	56	20642	0.73	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83168	3.83	ug/l #	50
37) Ethyl Acetate	6.84	43	14730	1.25	ug/l #	77
38) Carbon Tetrachloride	7.67	117	107416	4.78	ug/l #	17
43) Isopropyl Acetate	8.29	43	287473	12.75	ug/l #	64
44) Trichloroethene	8.83	130	4007	0.23	ug/l	91
51) 4-Methyl-2-Pentanone	9.99	43	3424	0.29	ug/l	95
55) 1,1,2-Trichloroethane	10.63	97	7522	0.52	ug/l #	1
60) Dibromochloromethane	10.63	129	821276	50.55	ug/l #	10
64) Tetrachloroethene	10.63	164	959768	58.47	ug/l	97
71) Bromoform	12.41	173	5786	0.58	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	445	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	361649	36.74	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	361649	116.11	ug/l #	8
90) Hexachloroethane	13.84	117	60	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.92	180	31	4.75	ug/l #	1
95) Naphthalene	15.14	128	2876	2.26	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.33	180	70	3.46	ug/l #	13

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

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Quant Title : SW846 8260
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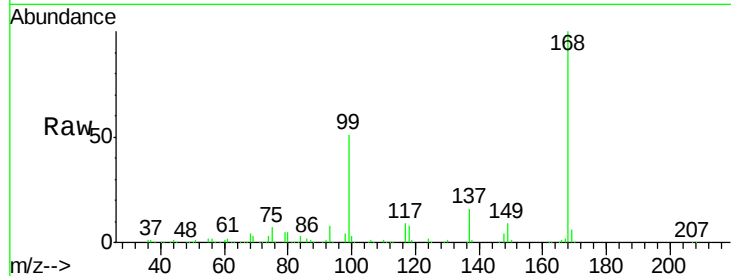


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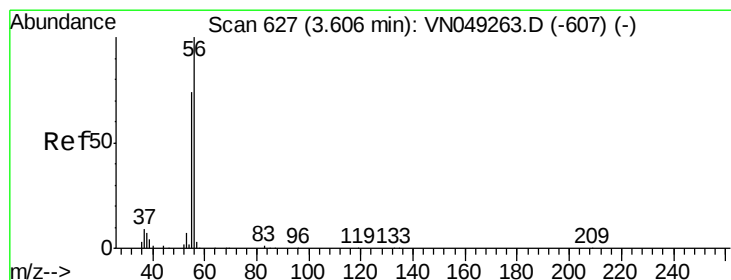
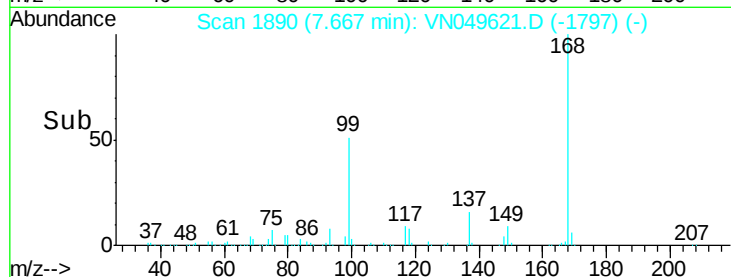
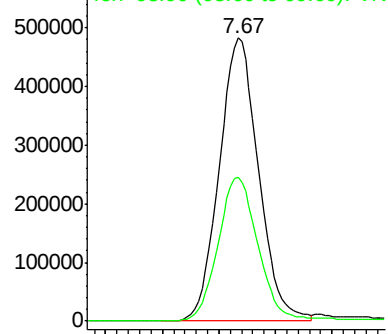
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. 0.00 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:168 Resp: 116555
 Ion Ratio Lower Upper
 168 100
 99 50.8 45.8 68.6



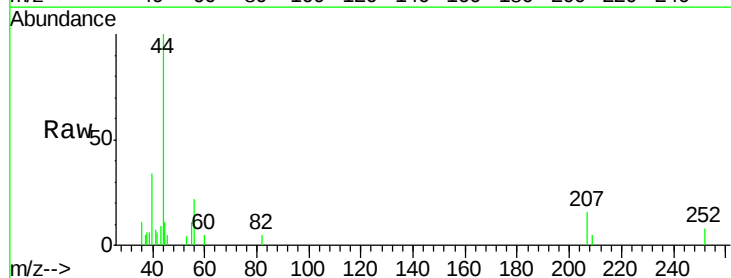
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VN0



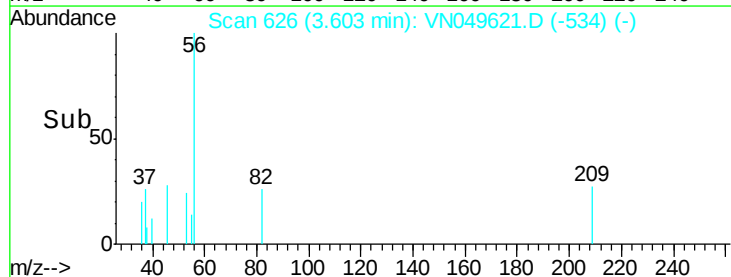
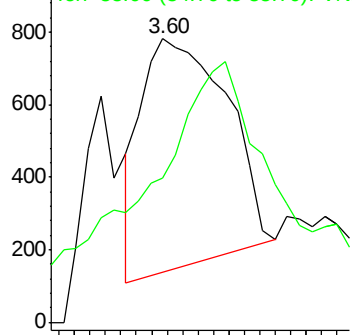
#13

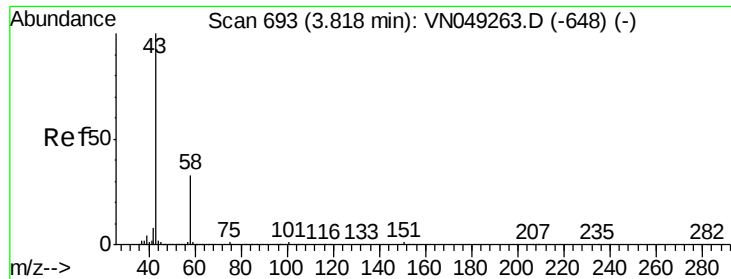
Acrolein
 Concen: 1.02 ug/l
 RT: 3.60 min Scan# 626
 Delta R.T. -0.00 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

Tgt Ion: 56 Resp: 975
 Ion Ratio Lower Upper
 56 100
 55 186.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0
 Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 37.48 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

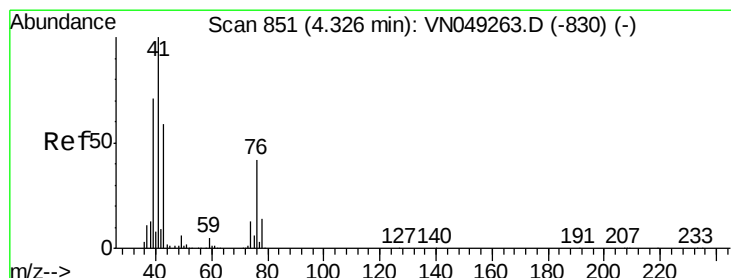
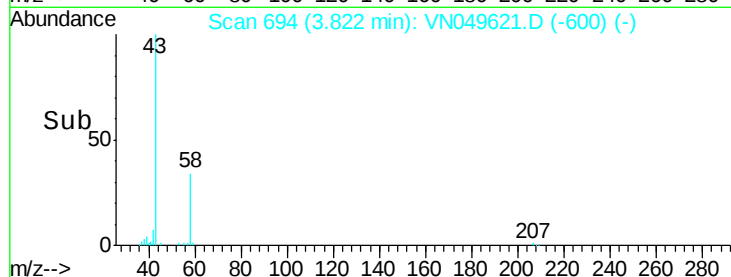
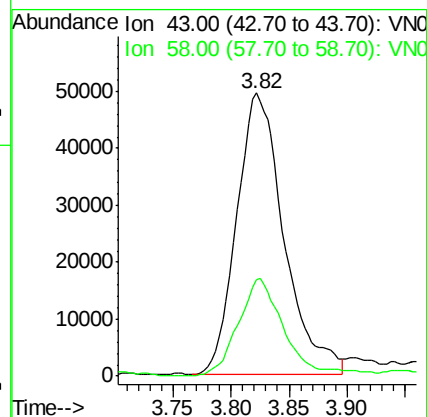
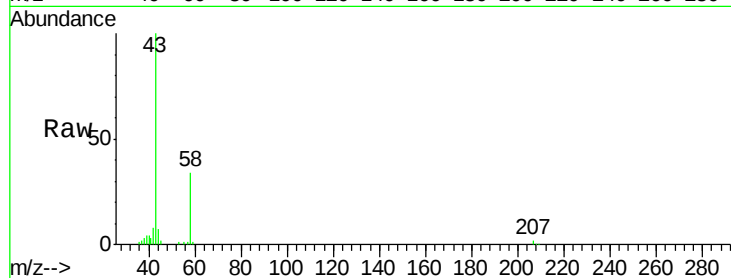
ClientSampled :

Tot Ion: 43 Resp: 140669

Ion Ratio Lower Upper

43 100

58 34.3 22.4 33.6#



#18

Methyl Acetate

Concen: 3.52 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049621.D

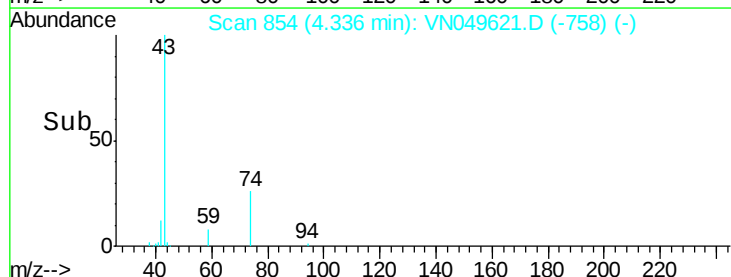
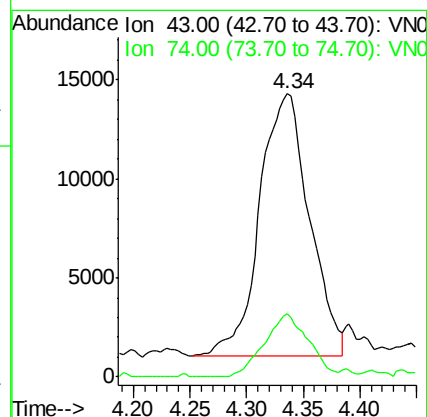
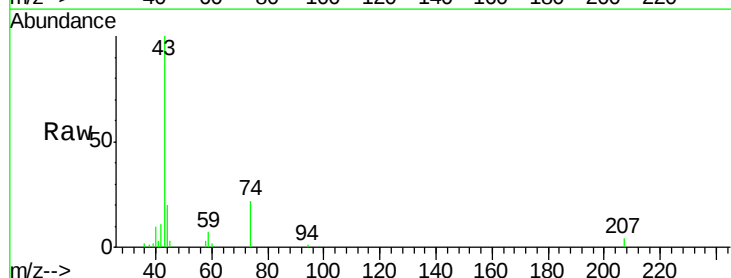
Acq: 29 Jun 2018 5:34

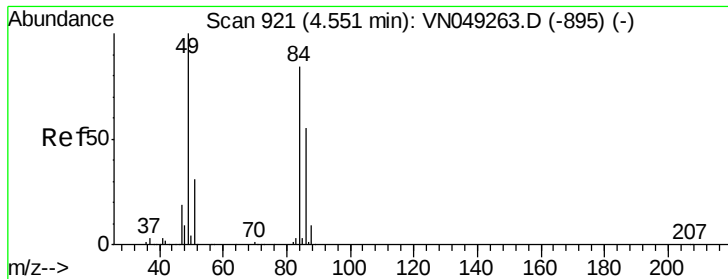
Tgt Ion: 43 Resp: 40336

Ion Ratio Lower Upper

43 100

74 21.3 17.4 26.0

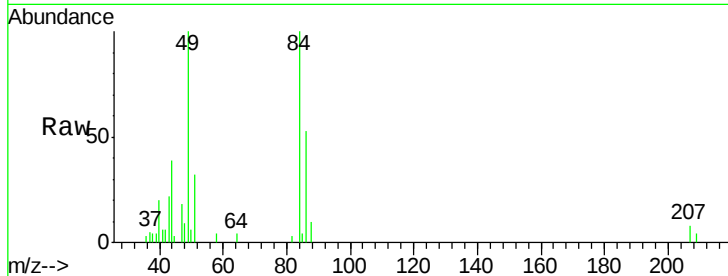




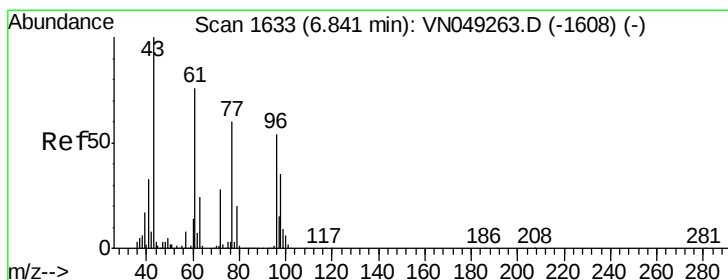
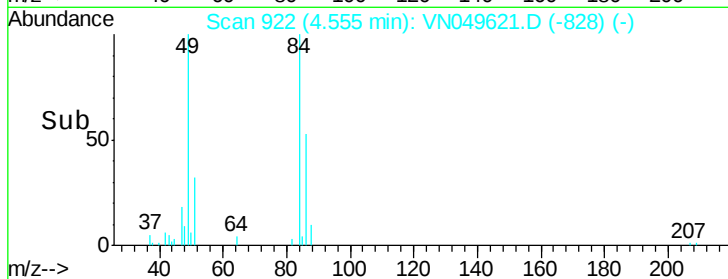
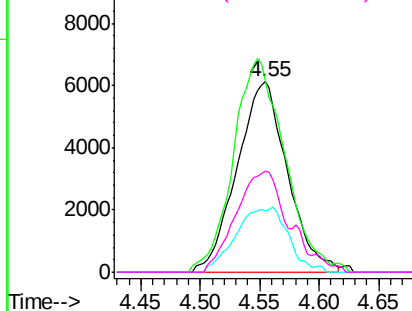
#20
Methvlene Chloride
Concen: 1.15 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 17959
Ion Ratio Lower Upper
84 100
49 100.4 106.9 160.3#
51 32.3 32.7 49.1#
86 53.3 49.8 74.8

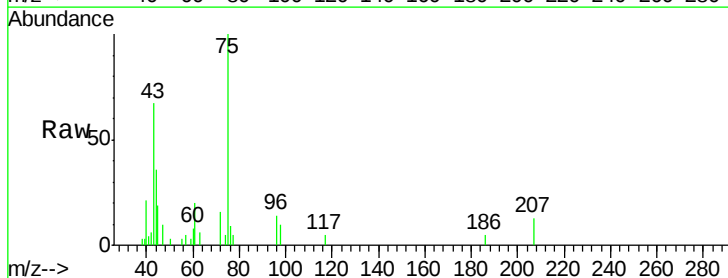


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

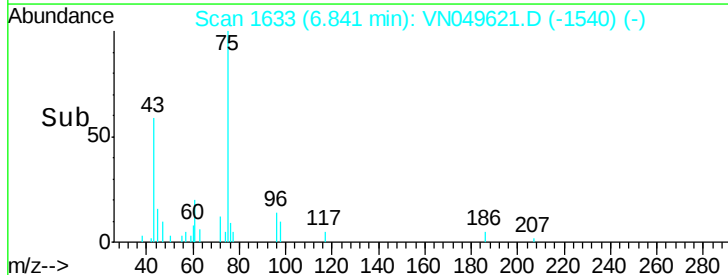
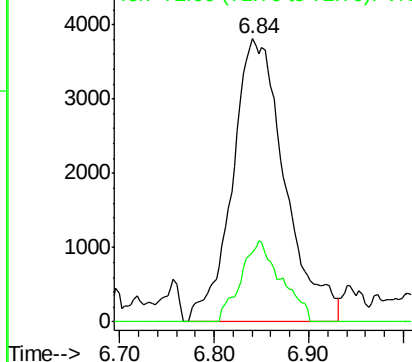


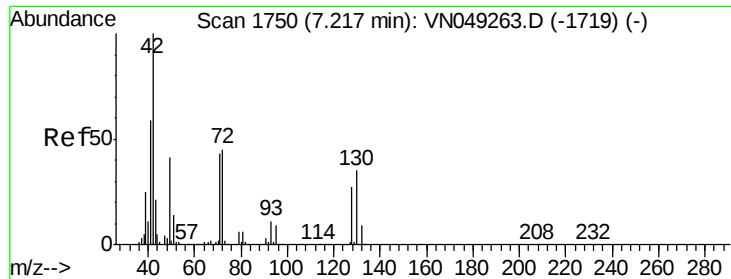
#25
2-Butanone
Concen: 2.92 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

Tgt Ion: 43 Resp: 14730
Ion Ratio Lower Upper
43 100
72 24.7 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.57 ug/l

RT: 7.22 min Scan# 1750

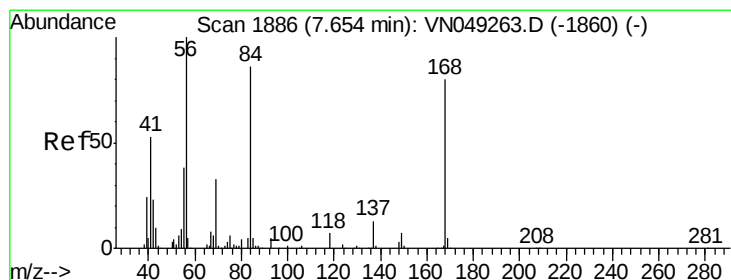
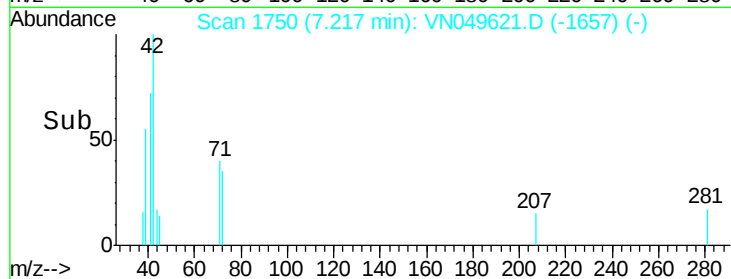
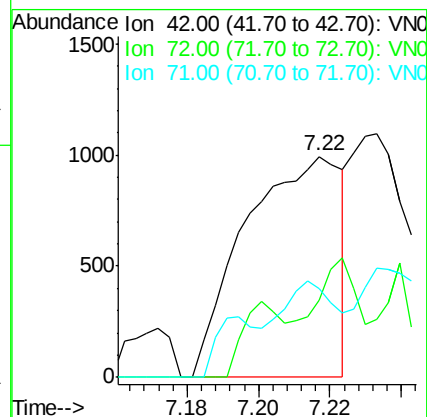
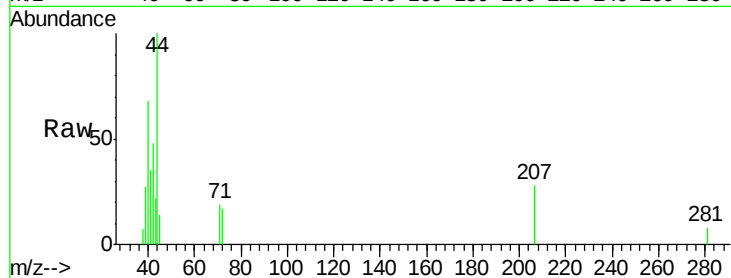
Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	42	Resp:	1855
Ion	Ratio	Lower	Upper
42	100		
72	23.7	32.2	48.4#
71	25.1	30.5	45.7#



#31

Cyclohexane

Concen: 0.73 ug/l

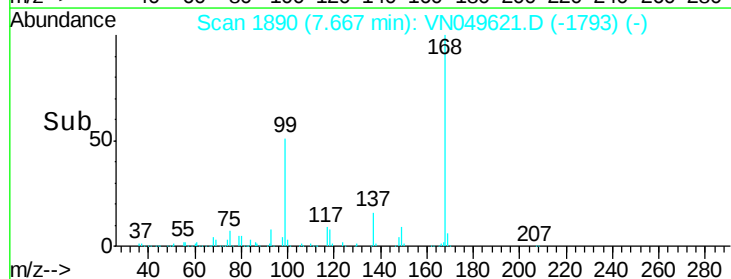
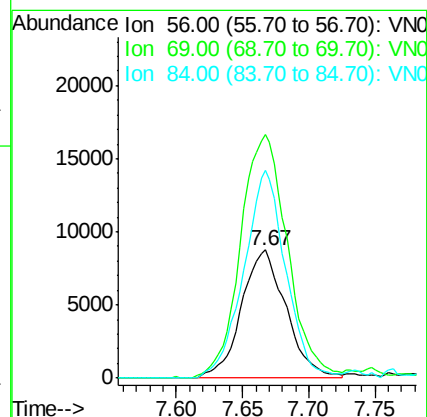
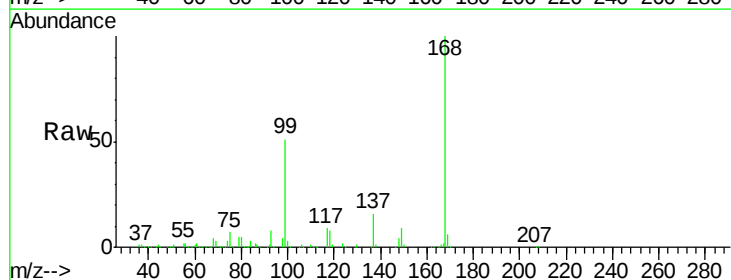
RT: 7.67 min Scan# 1890

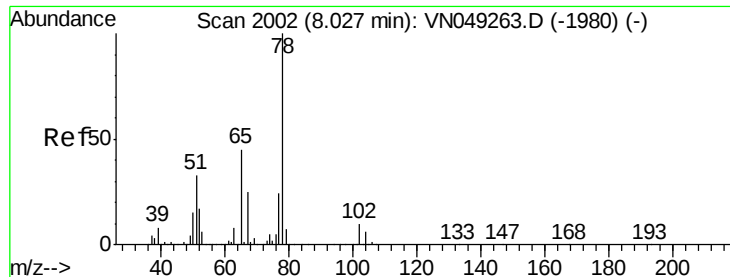
Delta R.T. 0.01 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Tgt Ion:	56	Resp:	20642
Ion	Ratio	Lower	Upper
56	100		
69	189.9	25.0	37.4#
84	161.7	64.6	96.8#





#33

1,2-Dichloroethane-d4

Concen: 50.47 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

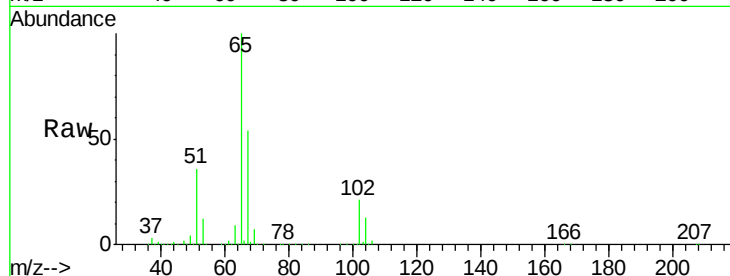
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 780171

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049621.D (-1980) (-)

Ion 66.90 (66.60 to 67.60): VN049621.D (-1980) (-)

8.03

300000

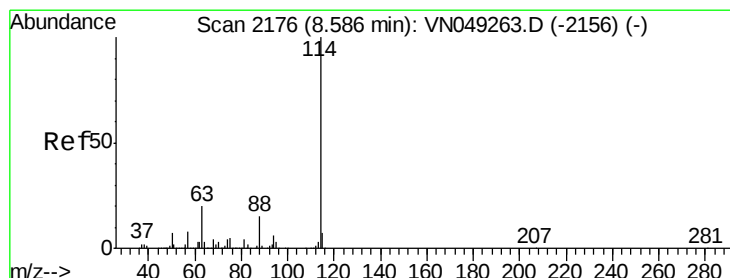
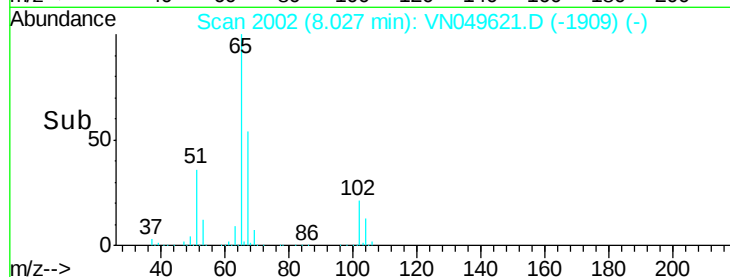
200000

100000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

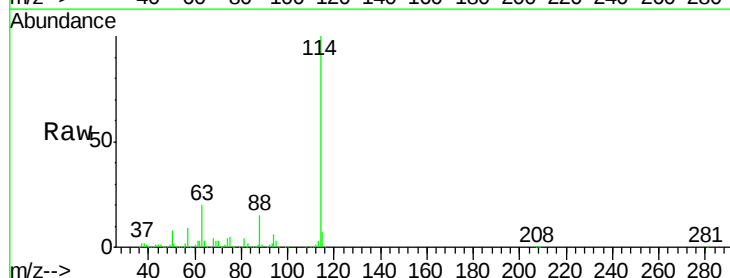
Tgt Ion: 114 Resp: 1893563

Ion Ratio Lower Upper

114 100

63 19.8 0.0 44.4

88 15.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049621.D (-2156) (-)

Ion 63.00 (62.70 to 63.70): VN049621.D (-2156) (-)

Ion 87.90 (87.60 to 88.60): VN049621.D (-2156) (-)

8.59

1200000

1000000

800000

600000

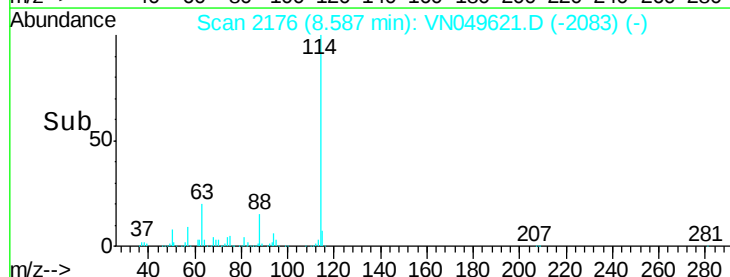
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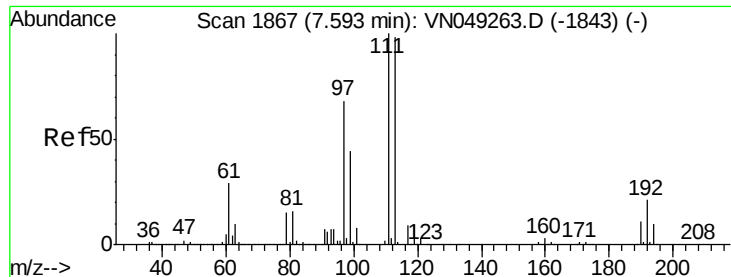
200000

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Time-->

8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 5.75 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :
MSVOA_N
ClientSampleId :

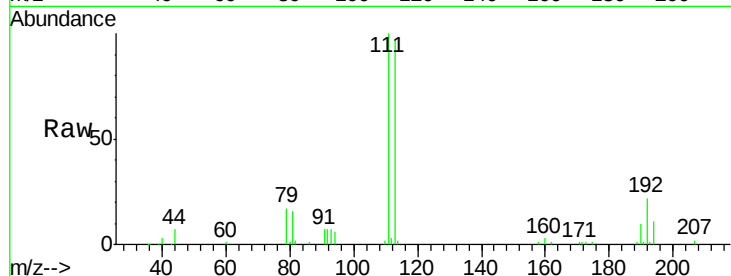
Tot Ion:113 Resp: 88144

Ion Ratio Lower Upper

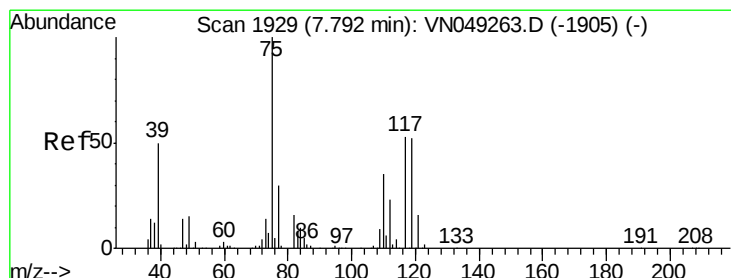
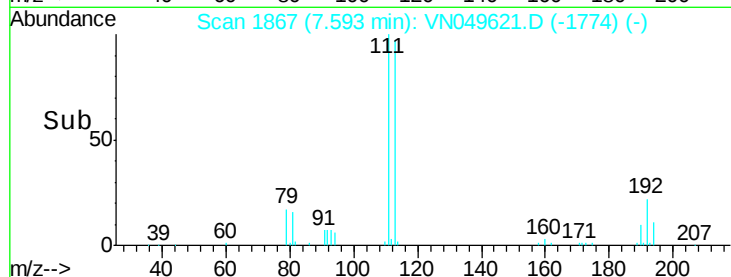
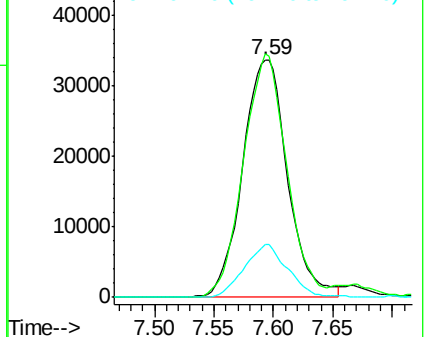
113 100

111 98.4 82.4 123.6

192 21.4 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: 3.83 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

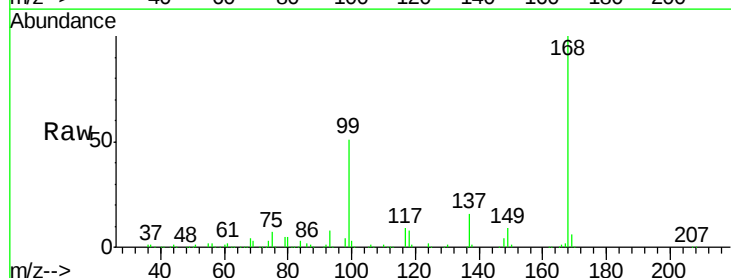
Tgt Ion: 75 Resp: 83168

Ion Ratio Lower Upper

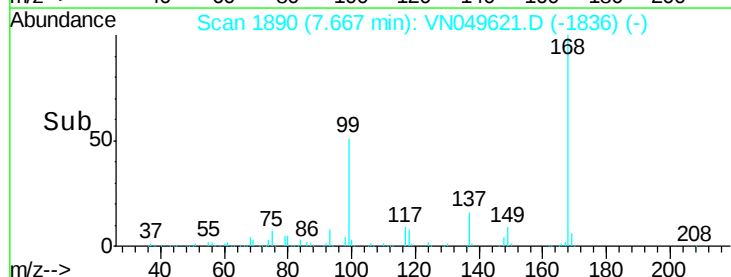
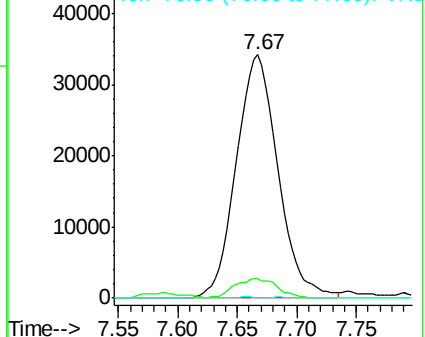
75 100

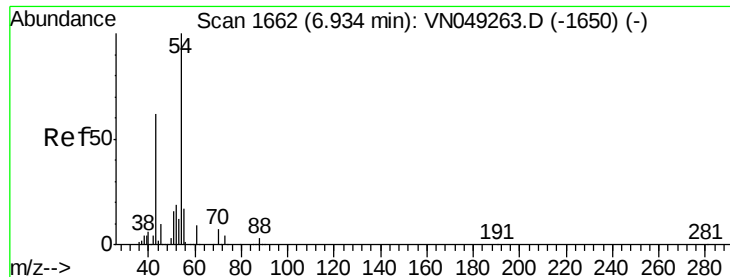
110 8.2 17.0 50.9#

77 0.1 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

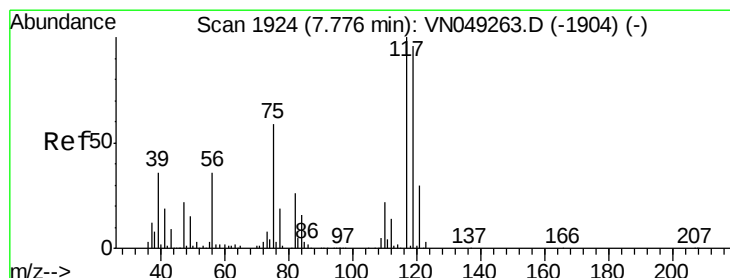
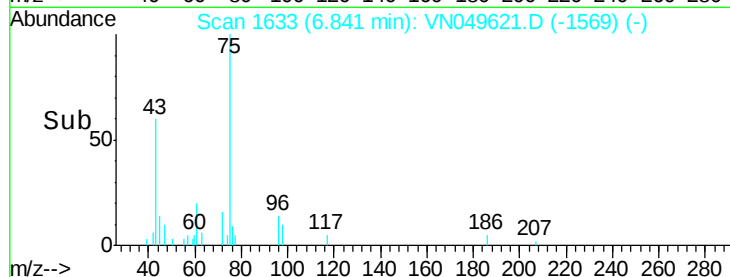
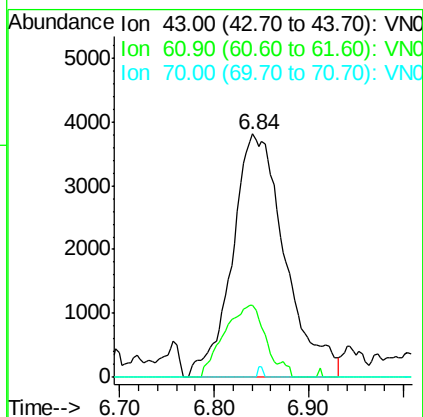
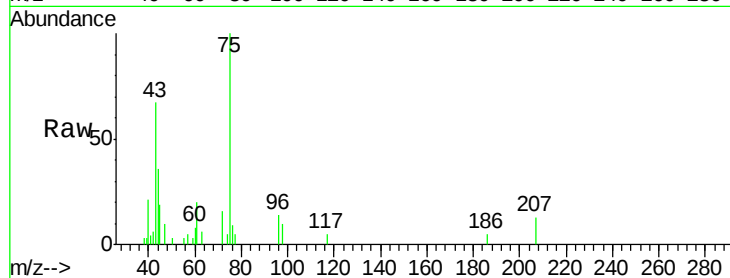




#37
Ethyl Acetate
Concen: 1.25 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.09 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

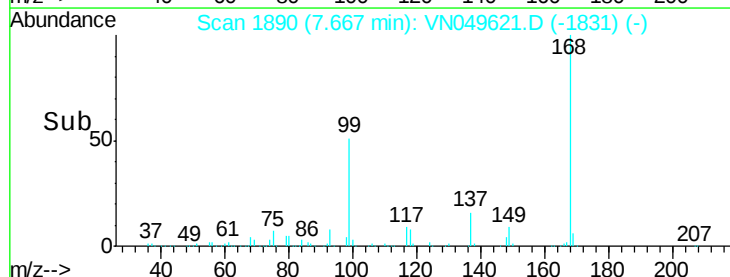
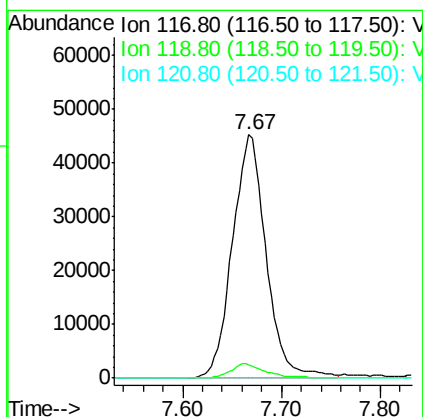
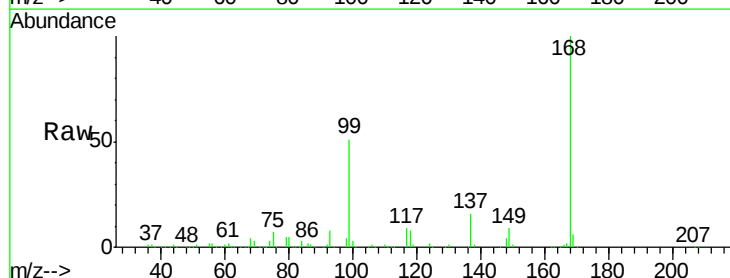
Instrument :
MSVOA_N
ClientSampleId :

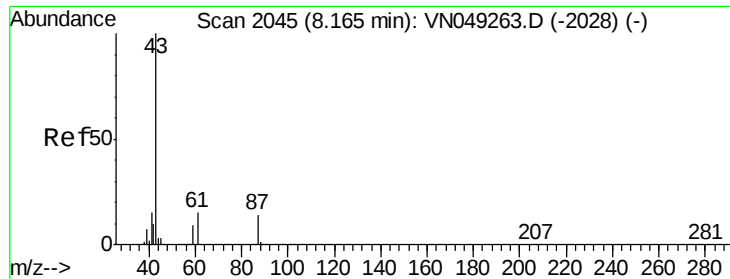
Tot Ion: 43 Resp: 14730
Ion Ratio Lower Upper
43 100
61 22.5 11.0 16.4#
70 0.4 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 4.78 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

Tgt Ion: 117 Resp: 107416
Ion Ratio Lower Upper
117 100
119 5.4 75.6 113.4#
121 0.0 24.7 37.1#



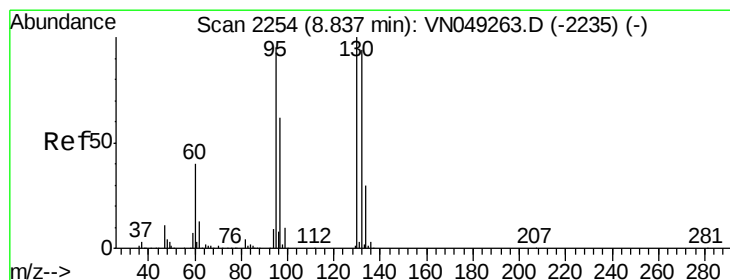
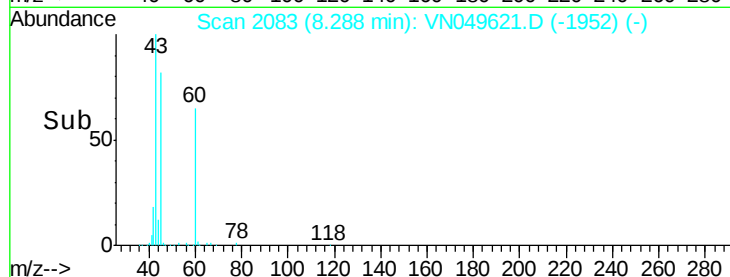
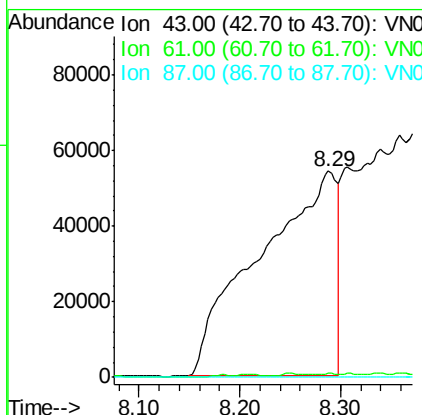
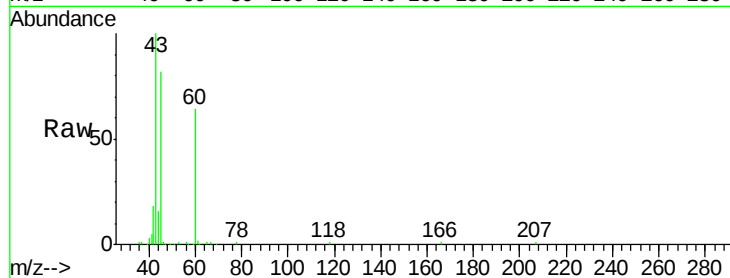


#43

Isopropyl Acetate
 Concen: 12.75 ug/l
 RT: 8.29 min Scan# 2083
 Delta R.T. 0.12 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

Instrument :
 MSVOA_N
 ClientSampleId :

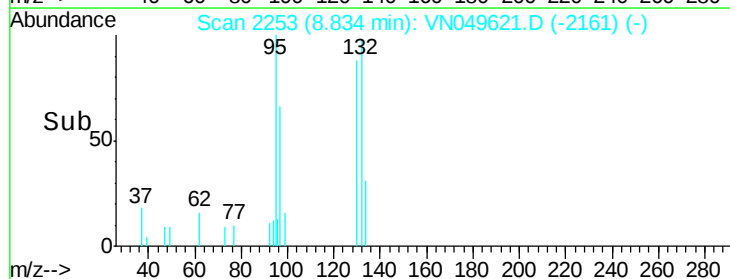
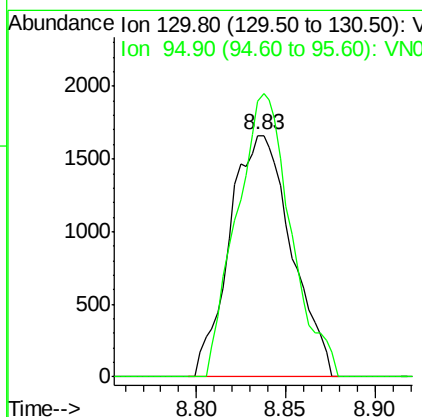
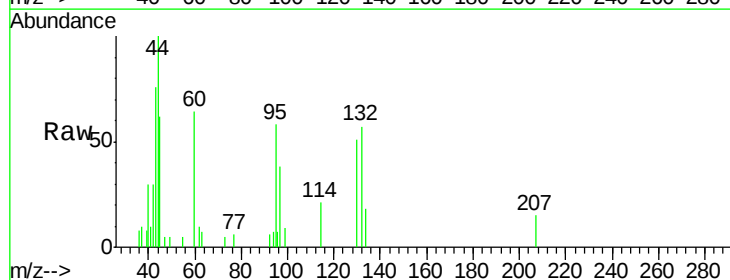
Tot Ion: 43 Resp: 287473
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.2 21.4#
 87 0.0 9.4 14.0#

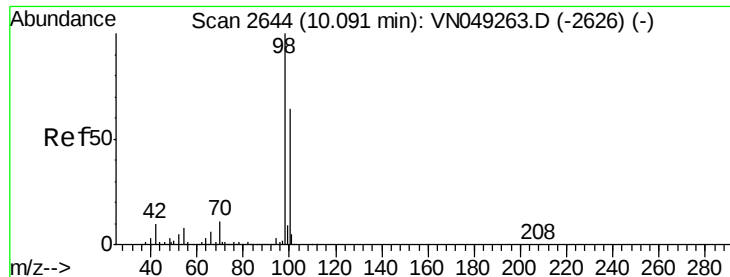


#44

Trichloroethene
 Concen: 0.23 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

Tgt Ion:130 Resp: 4007
 Ion Ratio Lower Upper
 130 100
 95 113.8 0.0 208.6

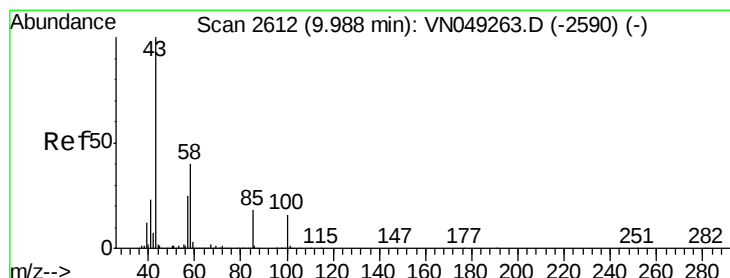
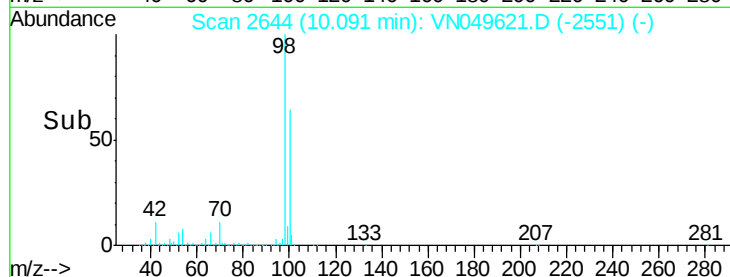
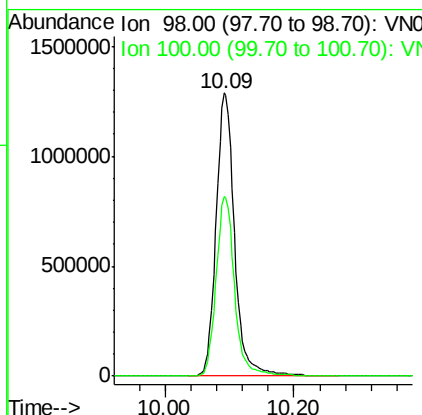
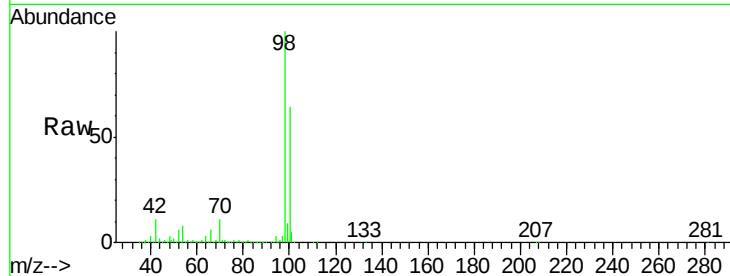




#50
Toluene-d8
Concen: 44.06 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

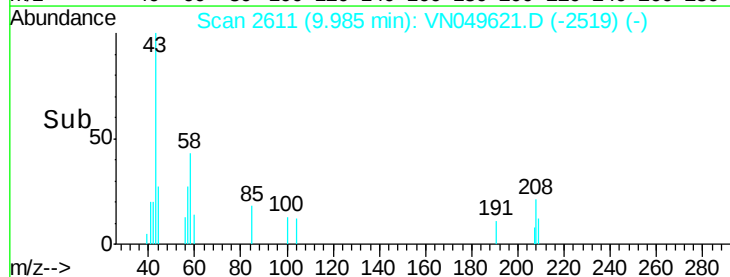
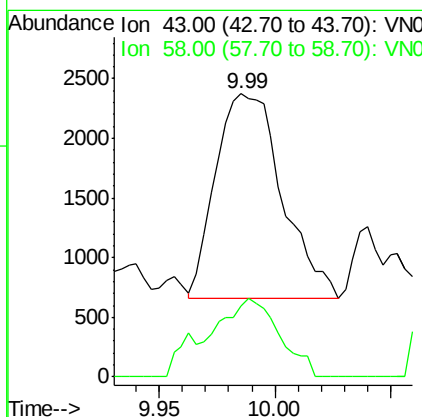
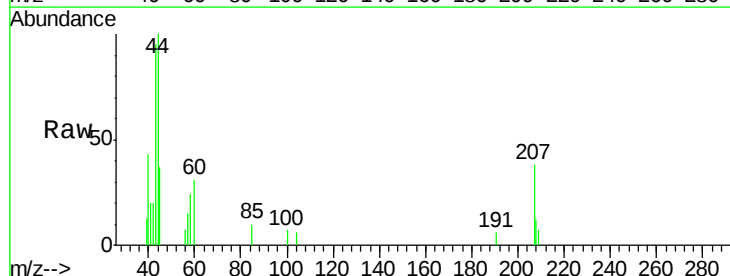
Instrument :
MSVOA_N
ClientSampled :

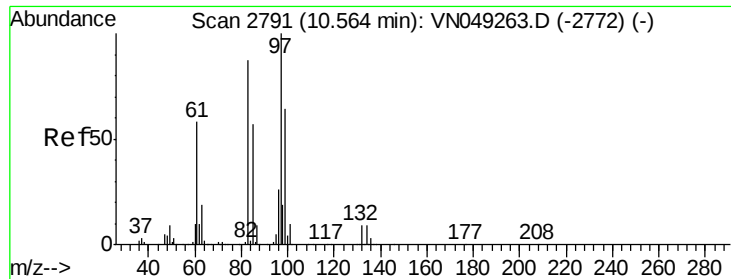
Tot Ion: 98 Resp: 2569916
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

Tgt Ion: 43 Resp: 3424
Ion Ratio Lower Upper
43 100
58 33.5 29.0 43.6

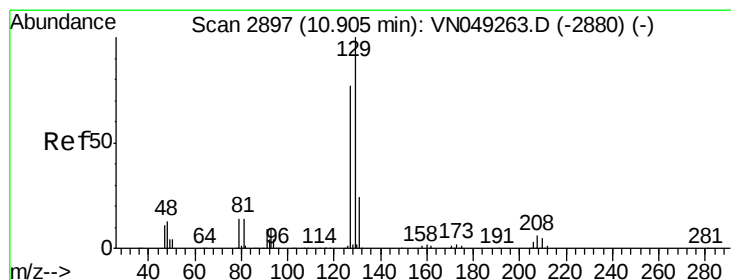
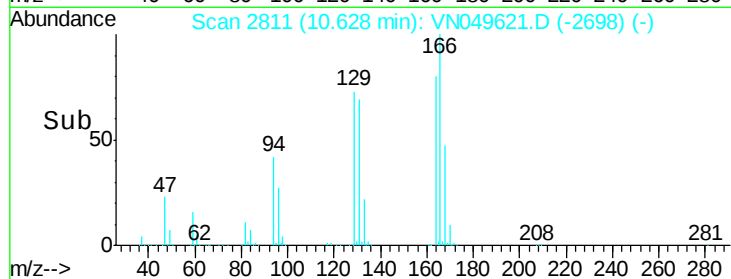
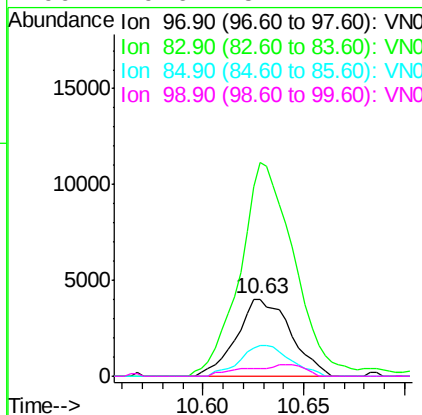
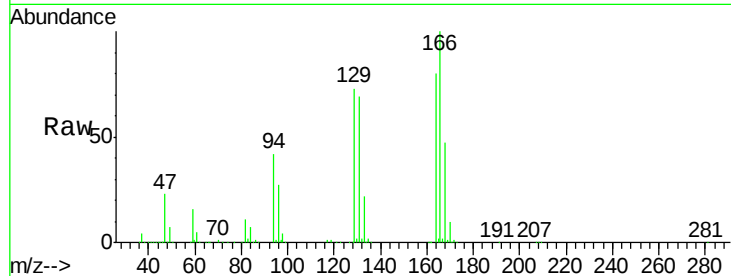




#55
 1,1,2-Trichloroethane
 Concen: 0.52 ug/l
 RT: 10.63 min Scan# 2811
 Delta R.T. 0.06 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

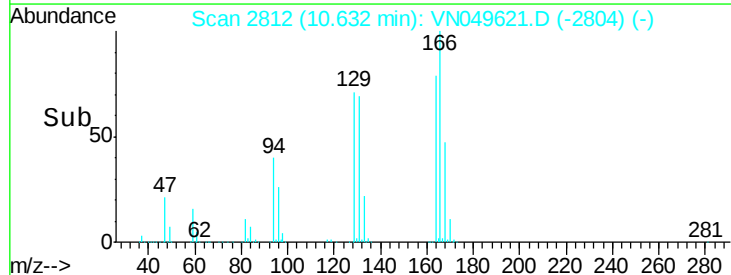
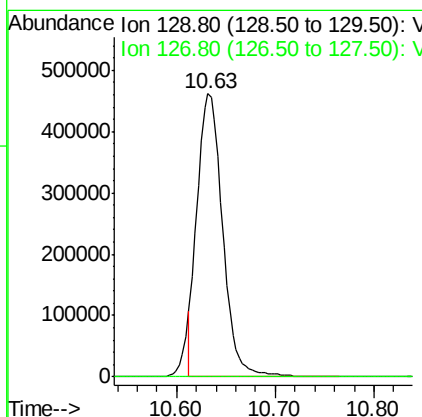
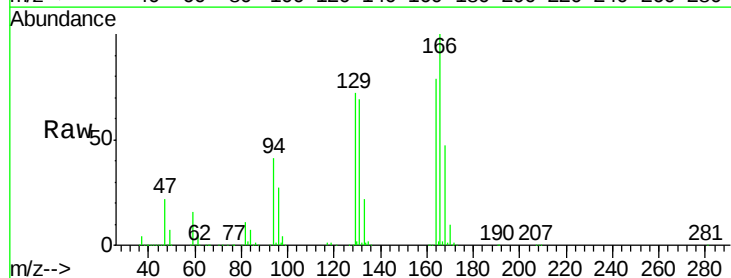
Instrument :
 MSVOA_N
 ClientSampled :

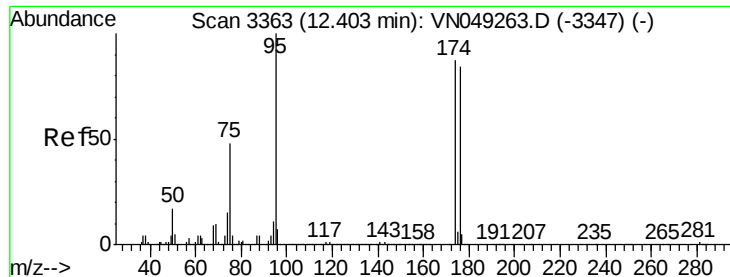
Tot Ion: 97 Resp: 7522
 Ion Ratio Lower Upper
 97 100
 83 277.2 71.5 107.3#
 85 39.6 47.0 70.4#
 99 9.6 51.4 77.2#



#60
 Dibromochloromethane
 Concen: 50.55 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN049621.D
 Acq: 29 Jun 2018 5:34

Tgt Ion: 129 Resp: 821276
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#

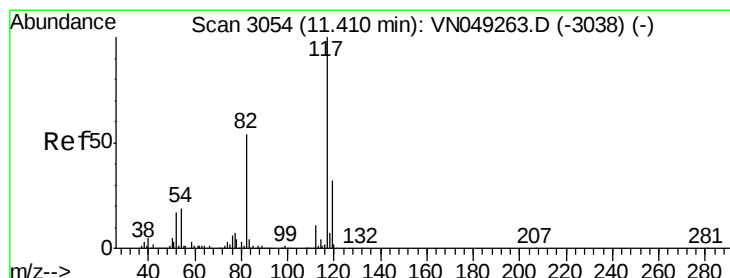
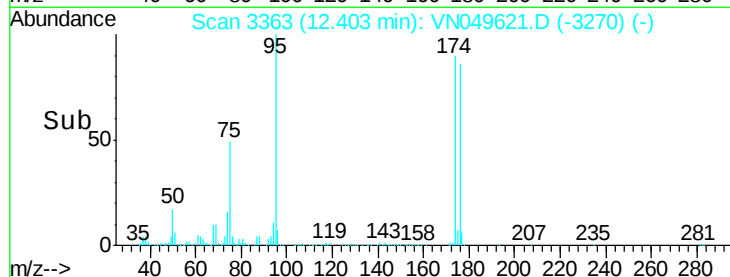
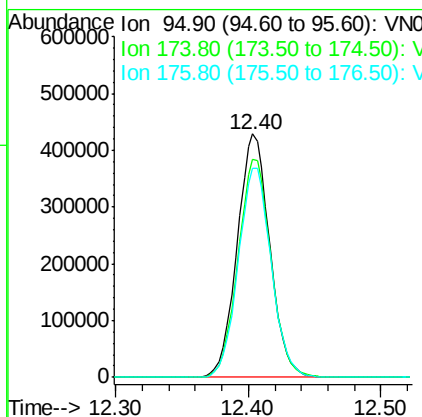
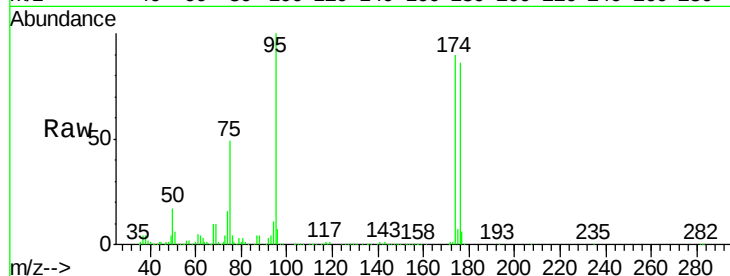




#62
4-Bromofluorobenzene
Concen: 37.81 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

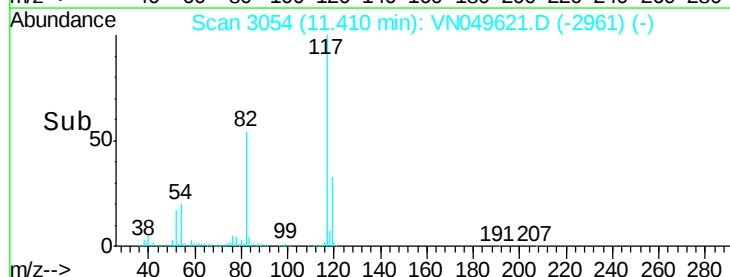
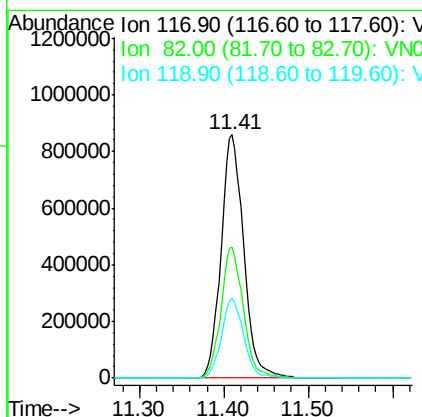
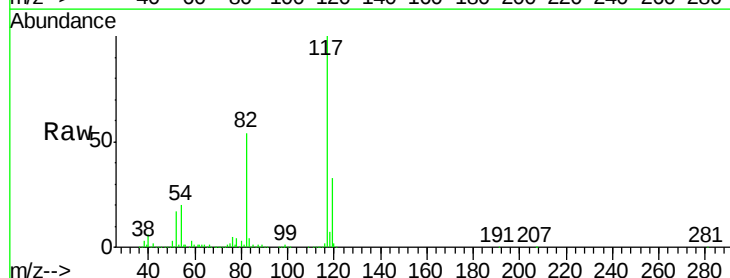
Instrument :
MSVOA_N
ClientSampleId :

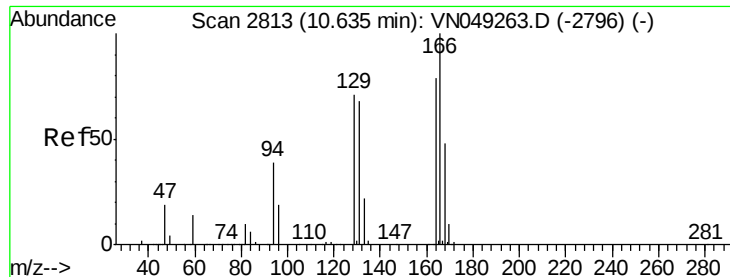
Tot Ion: 95 Resp: 729208
Ion Ratio Lower Upper
95 100
174 90.6 0.0 165.6
176 87.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049621.D
Acq: 29 Jun 2018 5:34

Tgt Ion: 117 Resp: 1601953
Ion Ratio Lower Upper
117 100
82 53.8 45.9 68.9
119 32.5 25.5 38.3





#64

Tetrachloroethene

Concen: 58.47 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:164 Resp: 959768

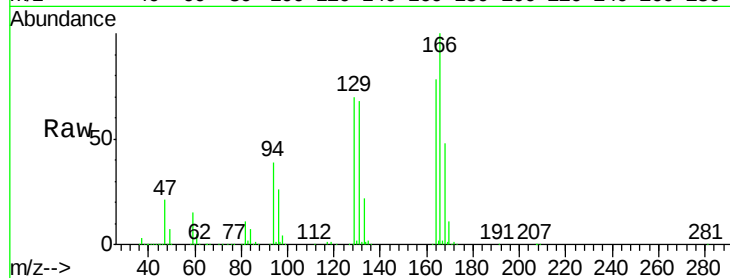
Ion Ratio Lower Upper

164 100

166 127.8 101.4 152.2

129 89.0 74.1 111.1

131 87.2 73.7 110.5

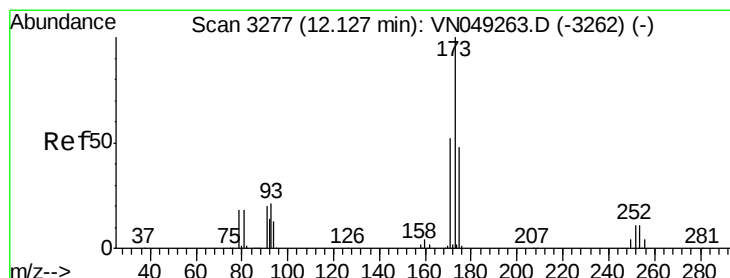
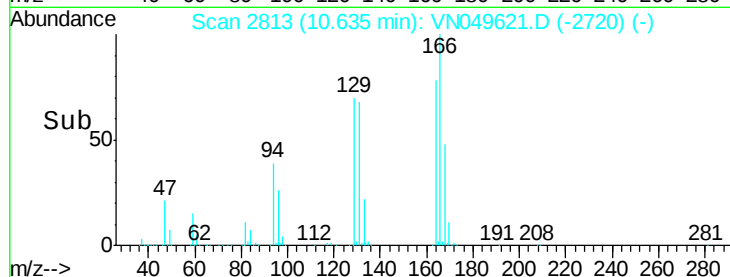
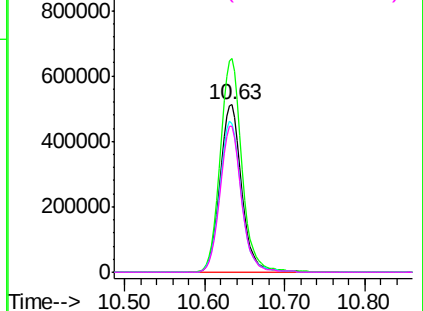


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.58 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

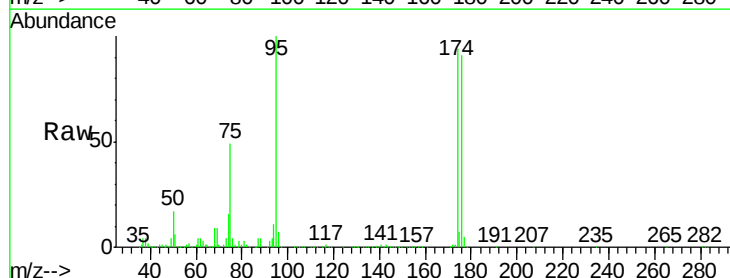
Tgt Ion:173 Resp: 5786

Ion Ratio Lower Upper

173 100

175 698.3 24.5 73.5#

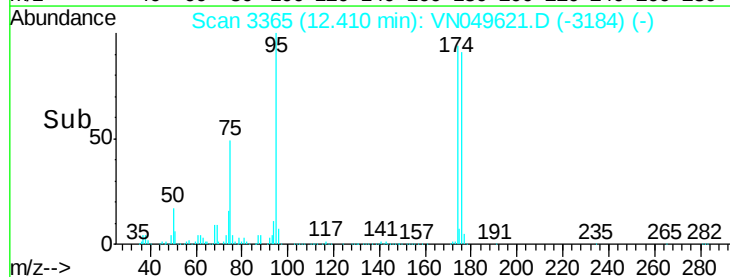
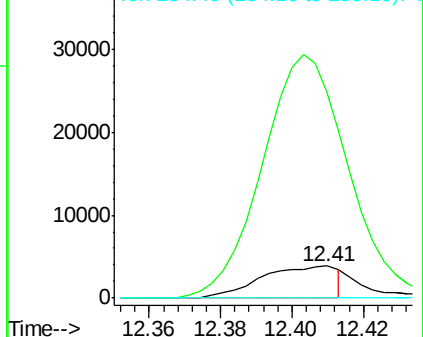
254 0.0 0.1 0.1#

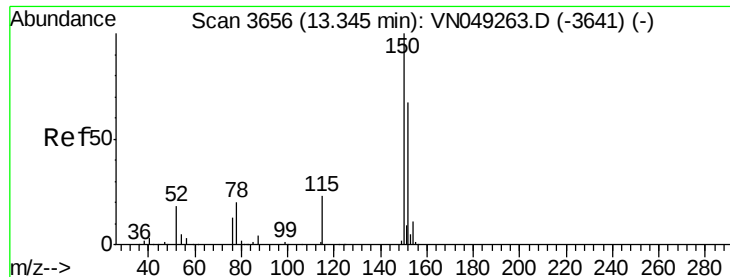


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3656

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

ClientSampleId :

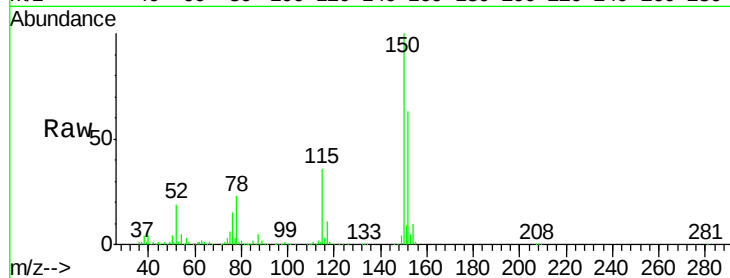
Tot Ion:152 Resp: 576970

Ion Ratio Lower Upper

152 100

115 56.1 28.7 86.1

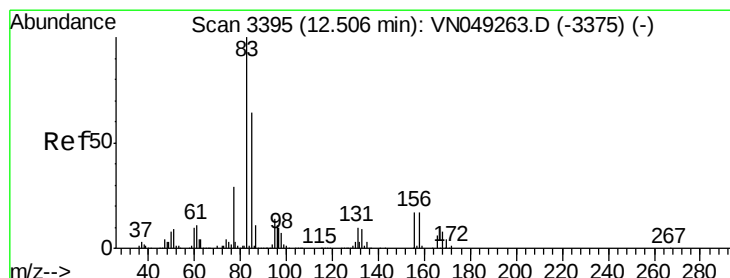
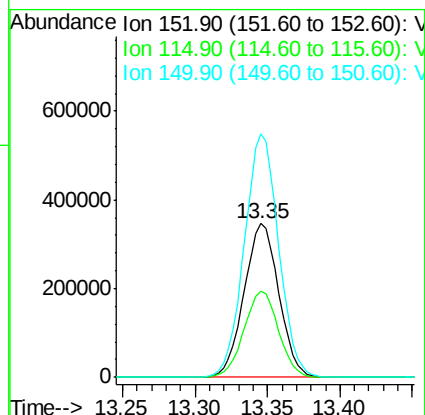
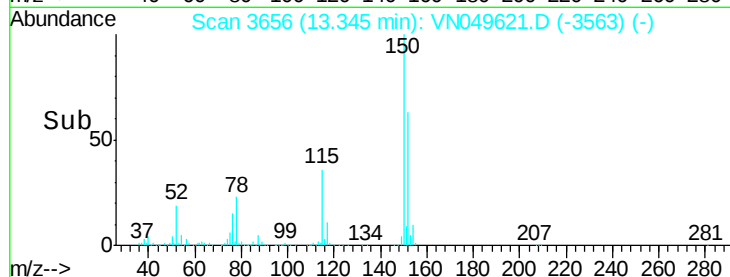
150 156.4 0.0 351.0



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: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

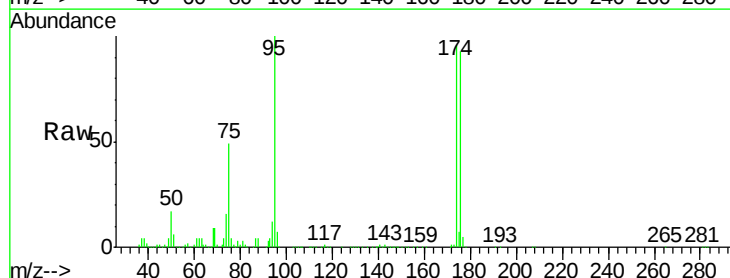
Tgt Ion: 83 Resp: 445

Ion Ratio Lower Upper

83 100

131 200.7 5.0 15.0#

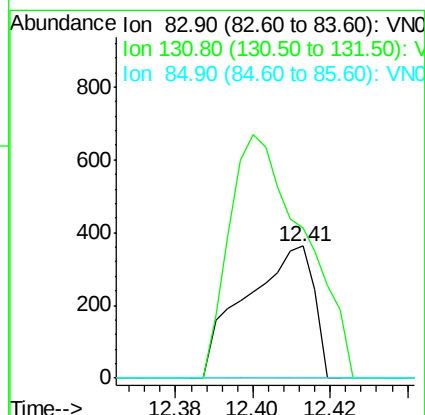
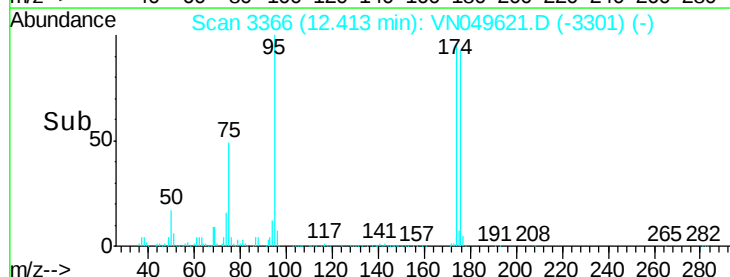
85 0.0 32.0 96.0#

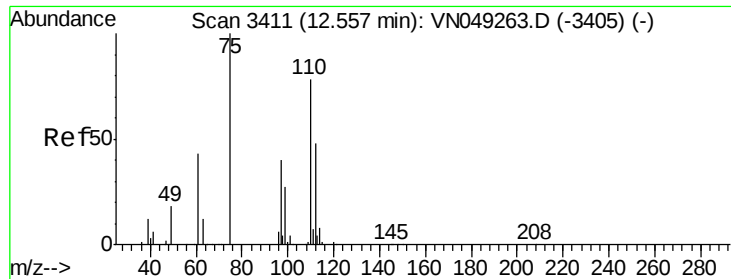


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

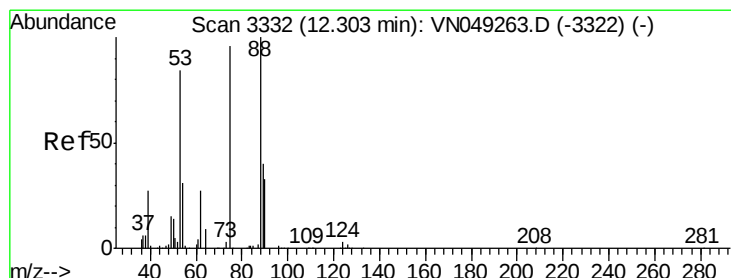
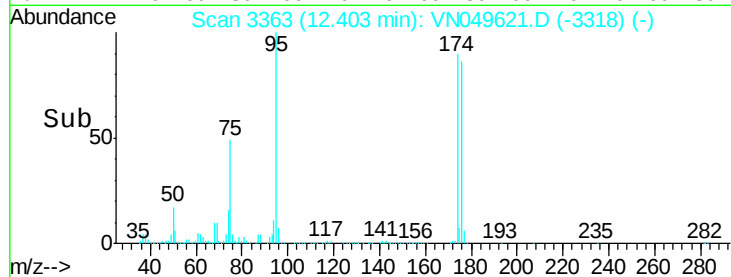
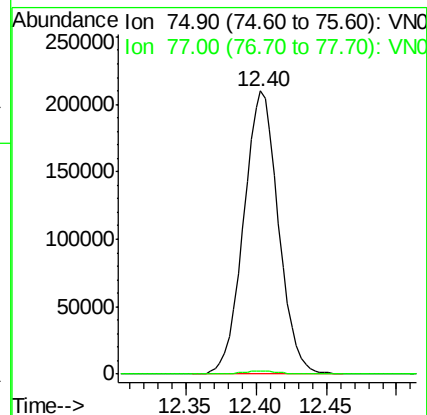
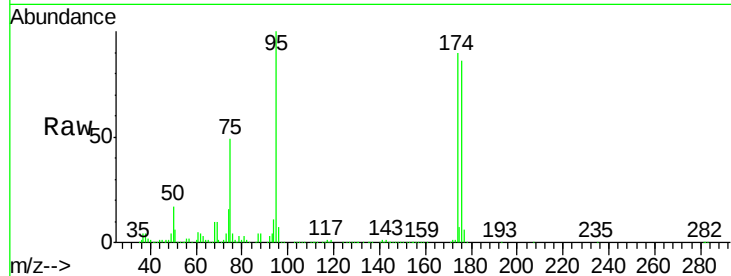
ClientSampleId :

Tot Ion: 75 Resp: 361649

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

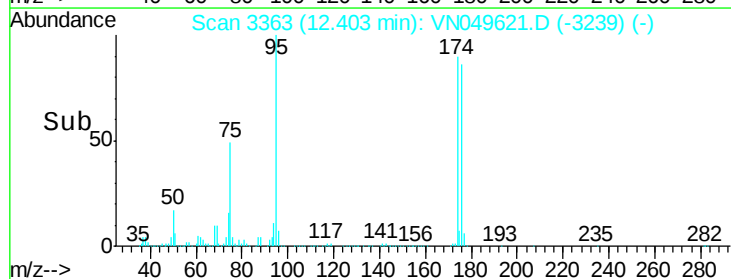
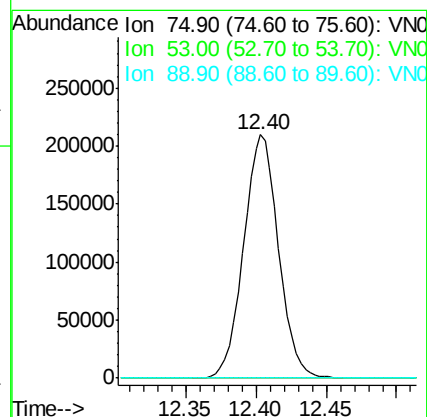
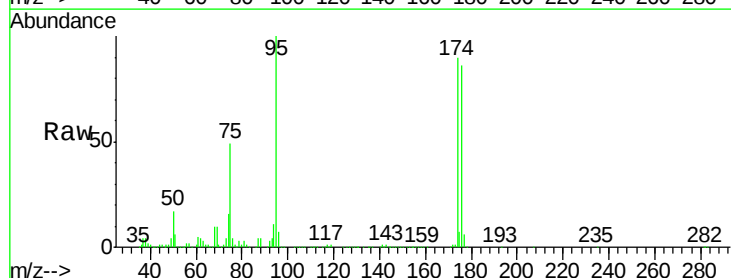
Tgt Ion: 75 Resp: 361649

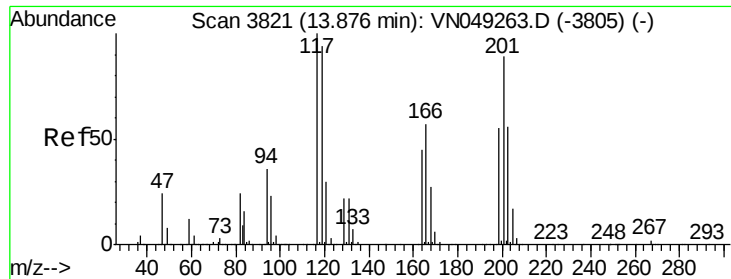
Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.84 min Scan# 3809

Delta R.T. -0.04 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

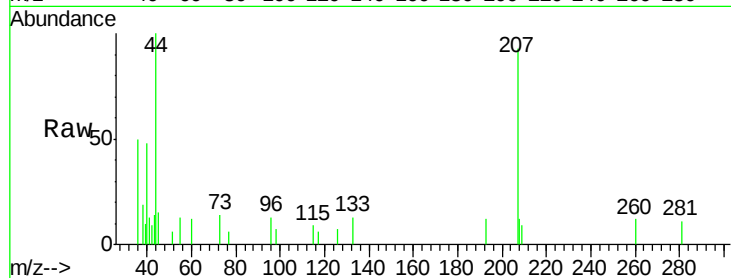
ClientSampled :

Tot Ion:117 Resp: 60

Ion Ratio Lower Upper

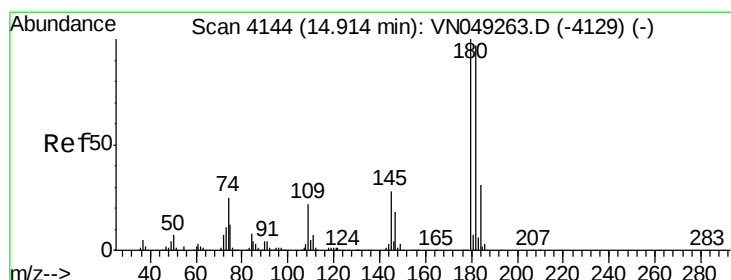
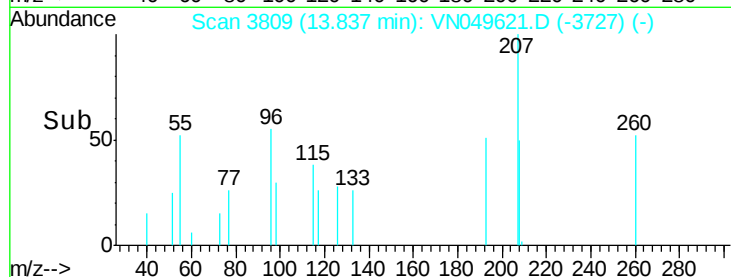
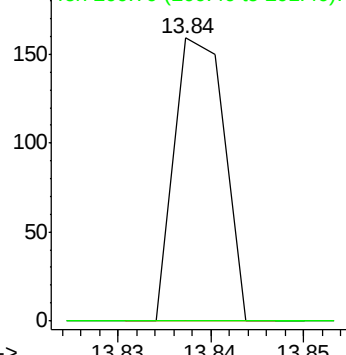
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.92 min Scan# 4146

Delta R.T. 0.01 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

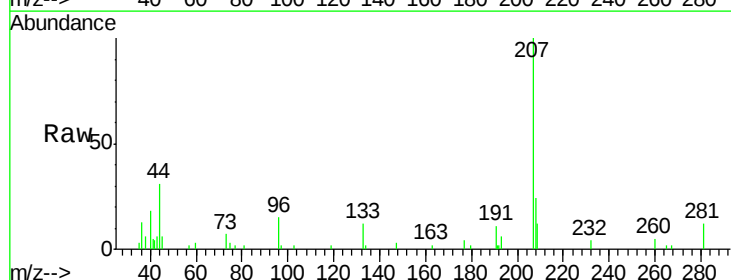
Tgt Ion:180 Resp: 31

Ion Ratio Lower Upper

180 100

182 216.1 46.9 140.8#

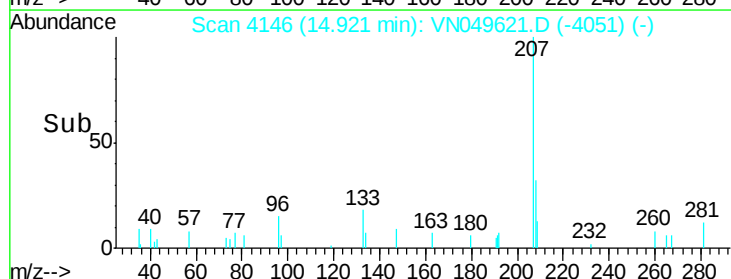
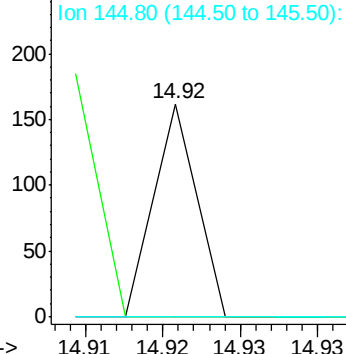
145 0.0 14.7 44.1#

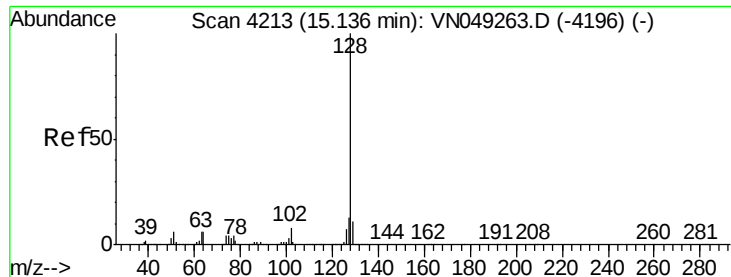


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.26 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

Instrument :

MSVOA_N

ClientSampled :

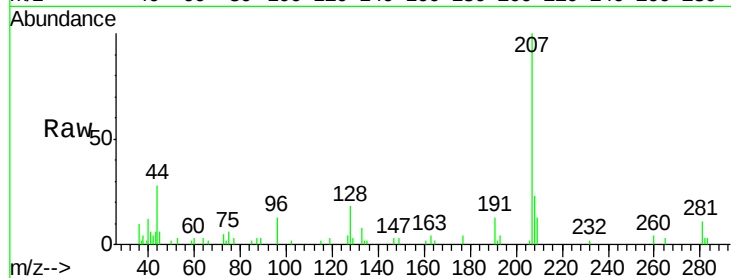
Tot Ion:128 Resp: 2876

Ion Ratio Lower Upper

128 100

127 10.5 10.6 16.0#

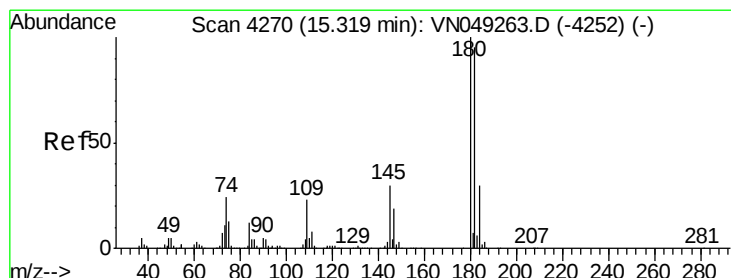
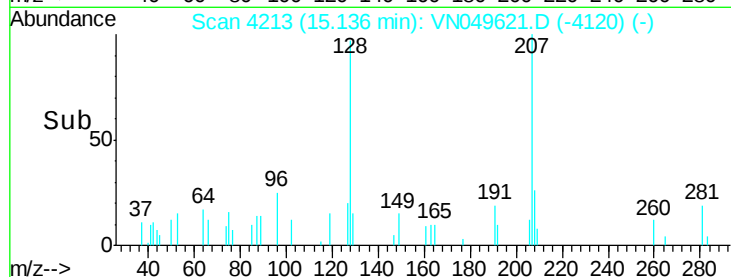
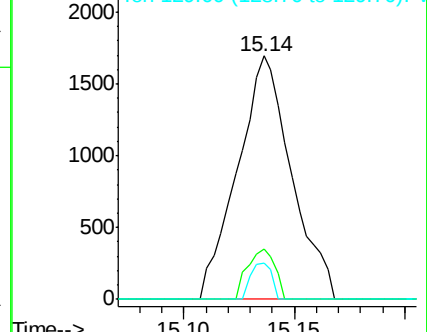
129 5.8 8.5 12.7#



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: 3.46 ug/l

RT: 15.33 min Scan# 4272

Delta R.T. 0.01 min

Lab File: VN049621.D

Acq: 29 Jun 2018 5:34

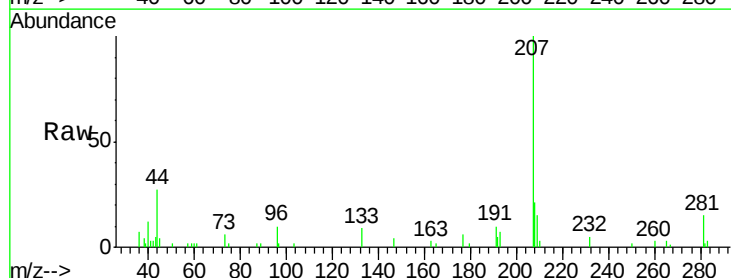
Tgt Ion:180 Resp: 70

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

145 0.0 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

