

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063018\
 Data File : VN049648.D
 Acq On : 30 Jun 2018 15:44
 Operator : MD\SY
 Sample : J3807-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 02 01:23:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1336957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2166081	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1802654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	657167	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	886524	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
35) Dibromofluoromethane	7.59	113	784142	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	
50) Toluene-d8	10.09	98	2922800	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
62) 4-Bromofluorobenzene	12.40	95	833019	38.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.98%	

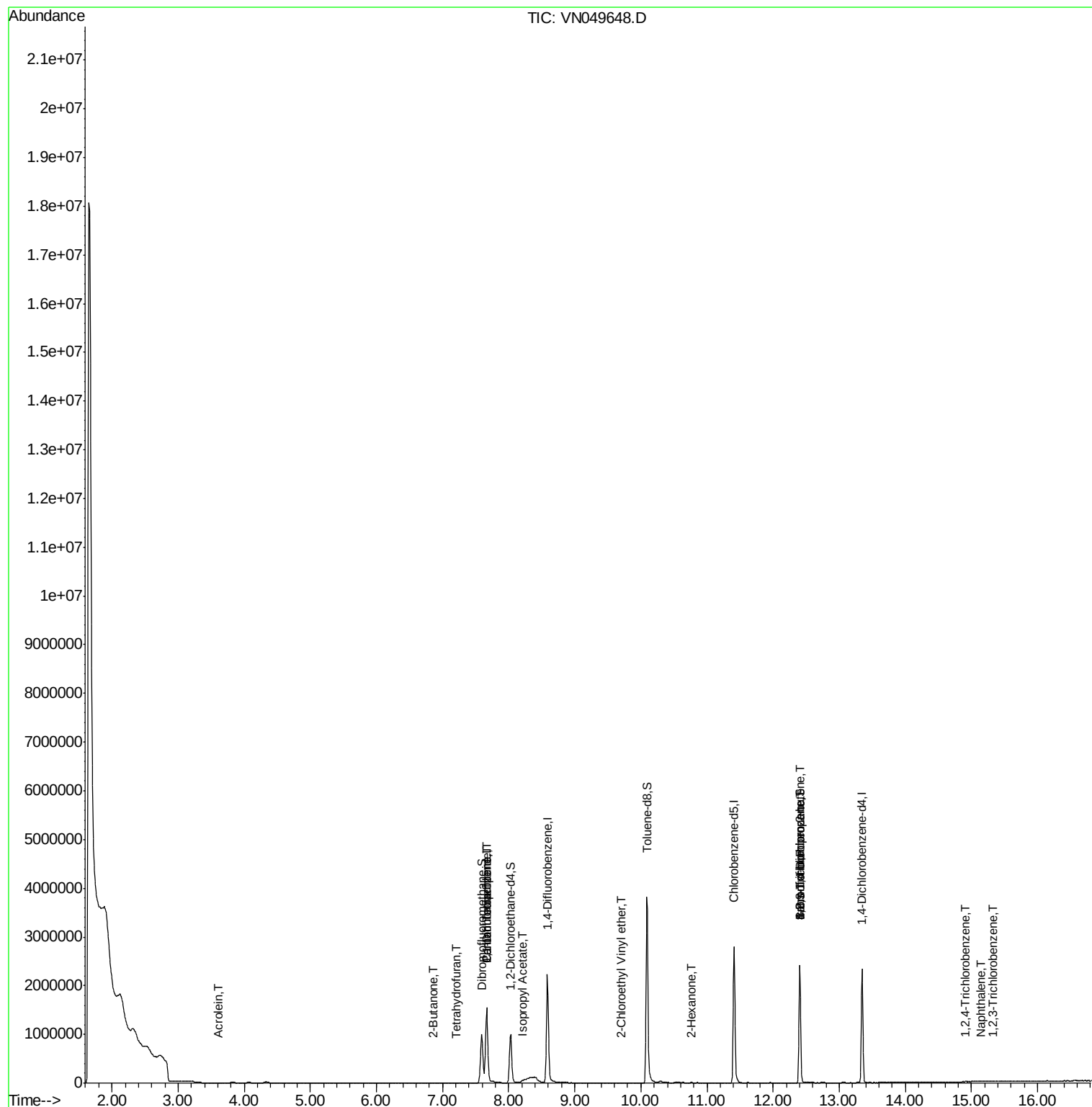
Target Compounds				Qvalue		
13) Acrolein	3.61	56	1050	1.11	ug/l #	1
17) Carbon Disulfide	4.04	76	7658	Below	Cal	96
18) Methyl Acetate	4.34	43	49826	Below	Cal	95
25) 2-Butanone	6.85	43	1288	0.22	ug/l #	47
29) Tetrahydrofuran	7.22	42	966	0.26	ug/l #	43
36) 1,1-Dichloropropene	7.67	75	91804	3.77	ug/l #	49
38) Carbon Tetrachloride	7.67	117	118837	5.01	ug/l #	16
43) Isopropyl Acetate	8.20	43	27881	0.41	ug/l #	62
58) 2-Chloroethyl Vinyl ether	9.71	63	103	10.83	ug/l #	48
59) 2-Hexanone	10.75	43	1864	0.20	ug/l	78
71) Bromoform	12.40	173	5827	0.52	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	335	Below	Cal #	95
76) 1,2,3-Trichloropropane	12.40	75	402545	38.19	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	402545	129.72	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	2638	Below	Cal	95
88) 1,4-Dichlorobenzene	13.28	146	2638	Below	Cal	94
91) 1,2-Dichlorobenzene	13.66	146	2385	Below	Cal	92
92) 1,2-Dibromo-3-Chloropropan	14.26	75	118	Below	Cal #	1
93) 1,2,4-Trichlorobenzene	14.91	180	2423	2.59	ug/l	81
94) Hexachlorobutadiene	15.02	225	728	Below	Cal	63
95) Naphthalene	15.14	128	5596	4.23	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	2465	1.85	ug/l #	91

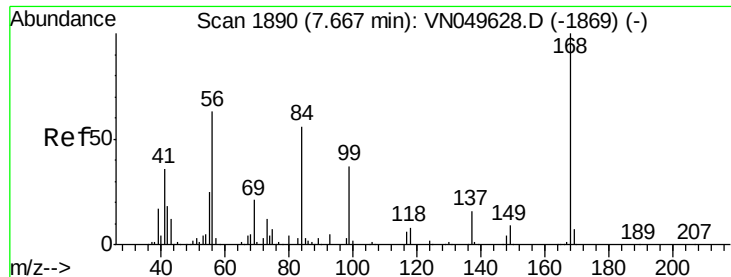
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN049648.D
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Instrument :
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Quant Time: Jul 02 01:23:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

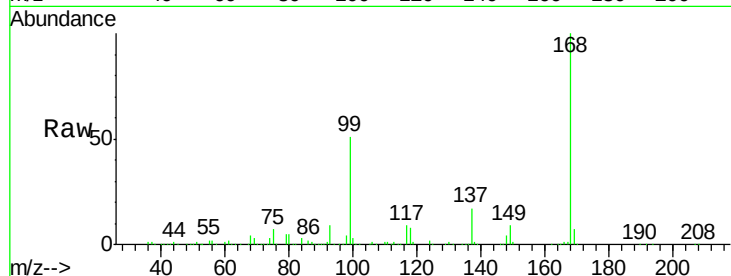
ClientSampleId :

Tot Ion:168 Resp: 1336957

Ion Ratio Lower Upper

168 100

99 51.2 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

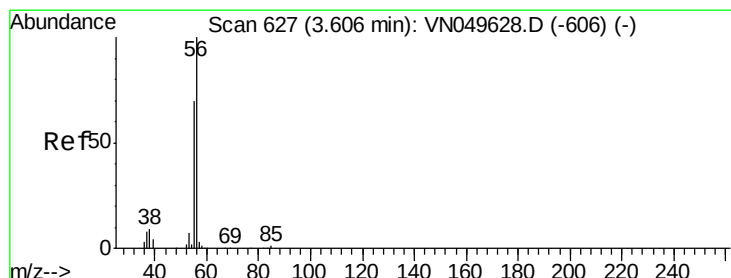
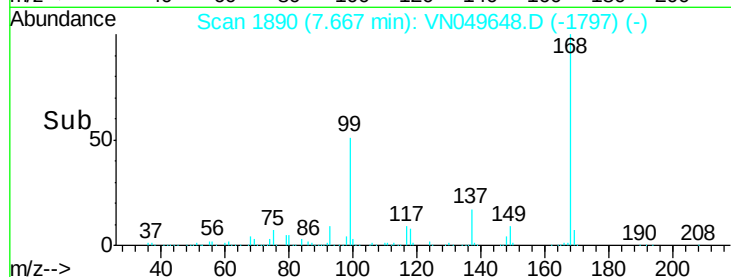
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 1.11 ug/l

RT: 3.61 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN049648.D

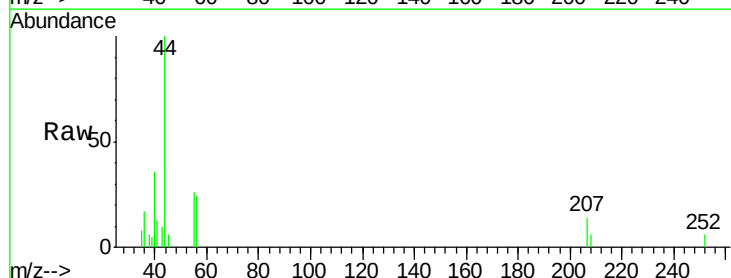
Acq: 30 Jun 2018 15:44

Tgt Ion: 56 Resp: 1050

Ion Ratio Lower Upper

56 100

55 165.6 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

800

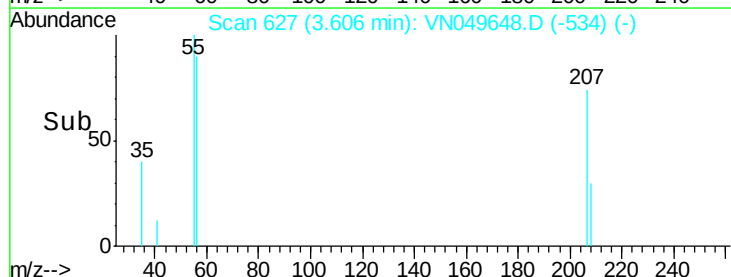
600

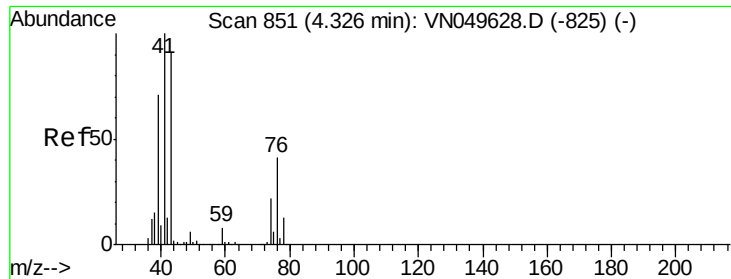
400

200

0

Time-->

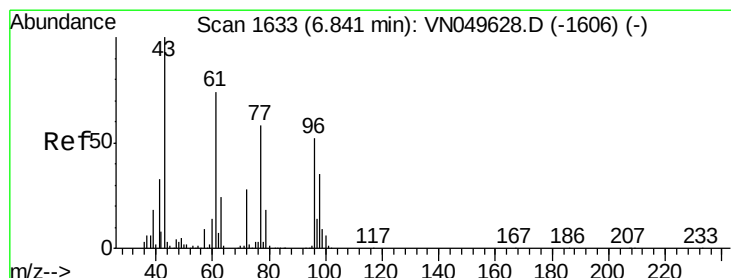
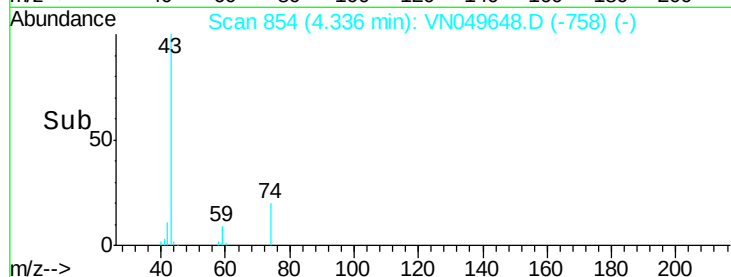
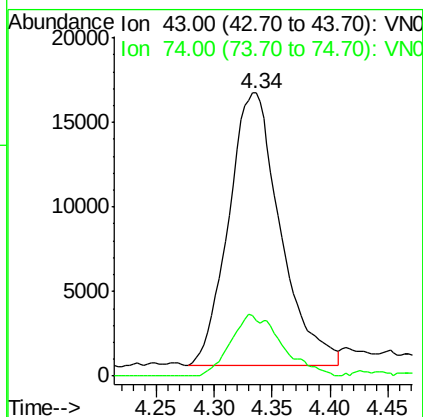
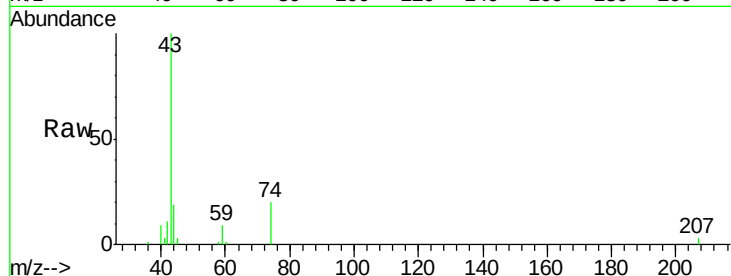




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

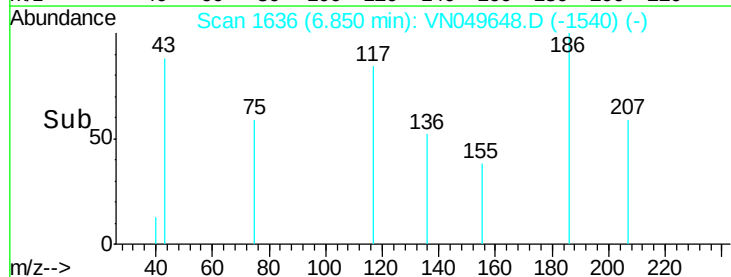
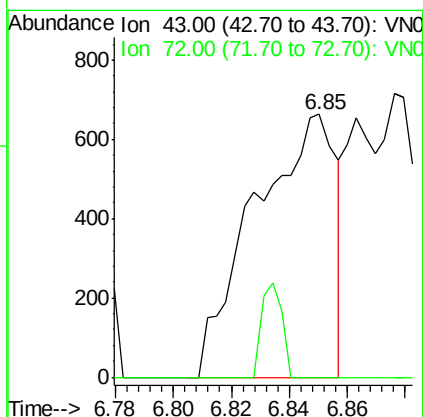
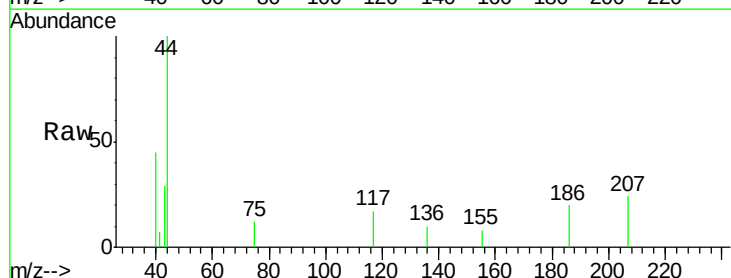
Instrument :
MSVOA_N
ClientSampled :

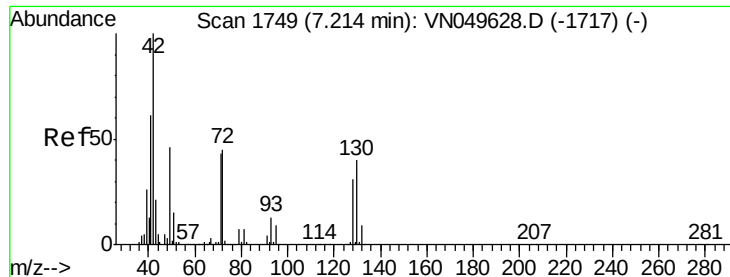
Tot Ion: 43 Resp: 49826
Ion Ratio Lower Upper
43 100
74 22.5 19.8 29.8



#25
2-Butanone
Concen: 0.22 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

Tgt Ion: 43 Resp: 1288
Ion Ratio Lower Upper
43 100
72 0.0 22.1 33.1#

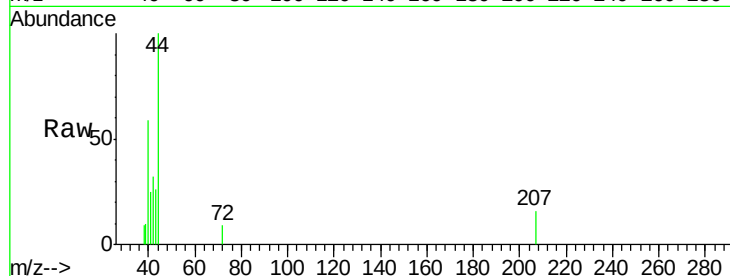




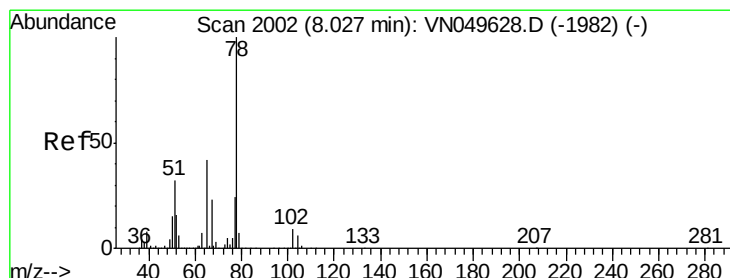
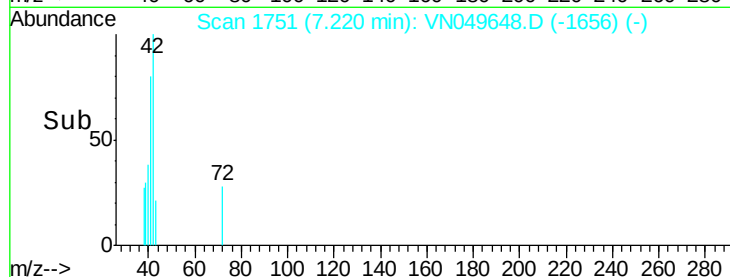
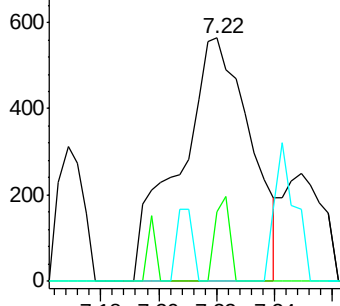
#29
Tetrahydrofuran
Concen: 0.26 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 966
Ion Ratio Lower Upper
42 100
72 7.1 35.6 53.4#
71 6.7 34.0 51.0#

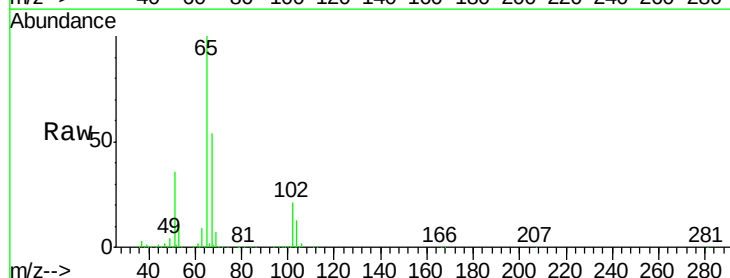


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

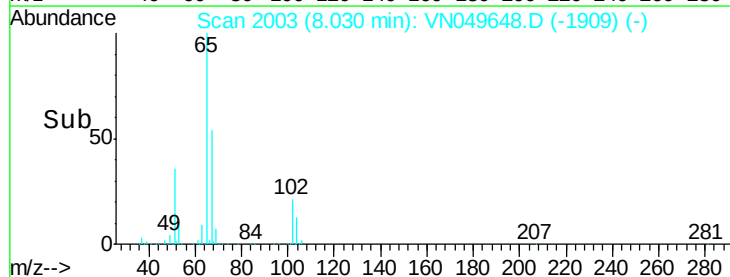
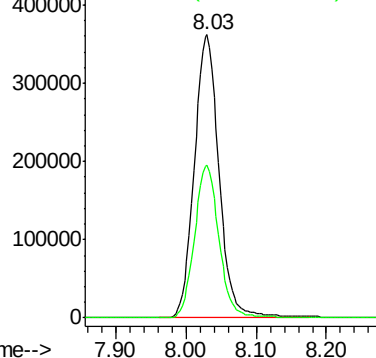


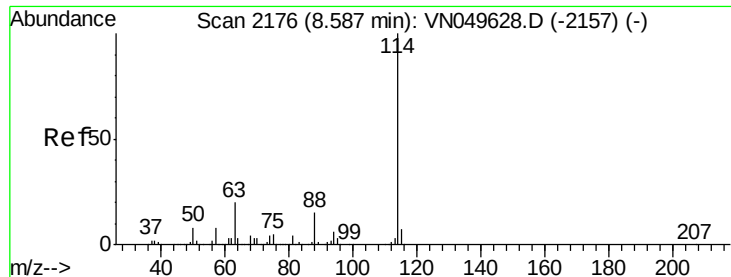
#33
1,2-Dichloroethane-d4
Concen: 50.21 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

Tgt Ion: 65 Resp: 886524
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.2



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

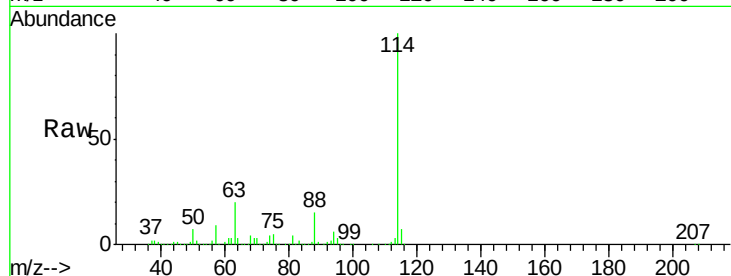




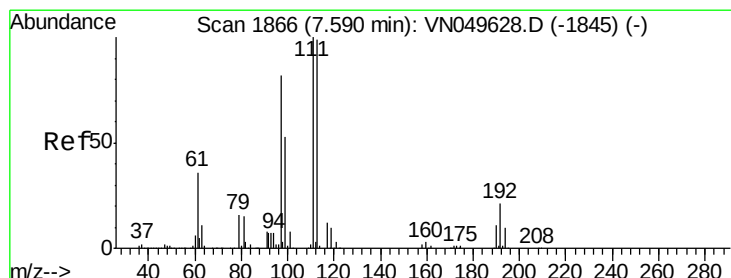
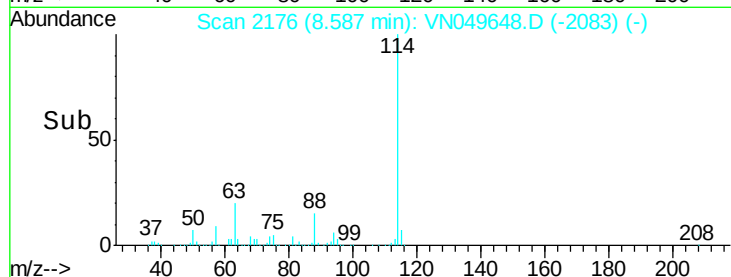
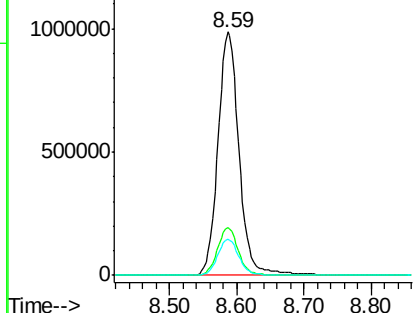
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 2166081
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.8
88 14.8 0.0 30.6

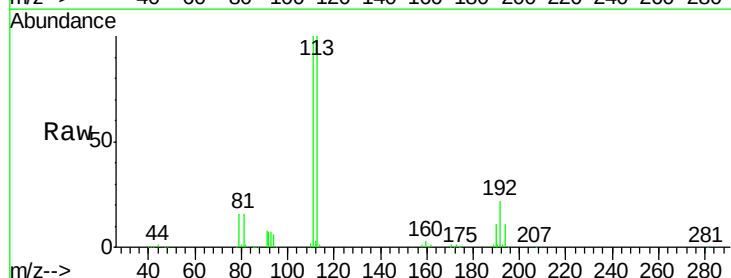


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

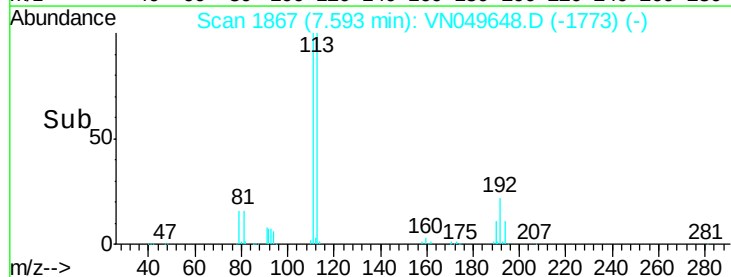
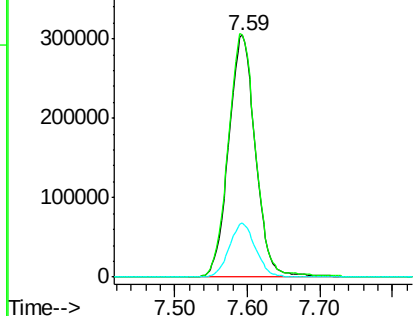


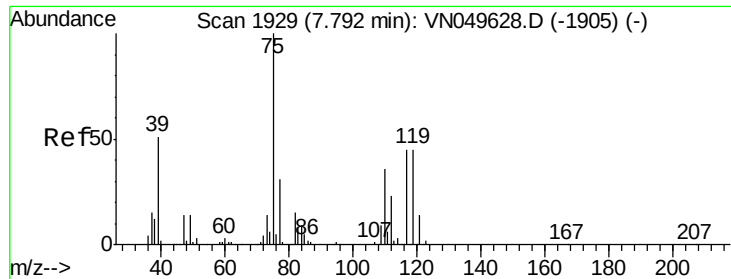
#35
Dibromofluoromethane
Concen: 48.42 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049648.D
Acq: 30 Jun 2018 15:44

Tgt Ion:113 Resp: 784142
Ion Ratio Lower Upper
113 100
111 101.4 81.8 122.8
192 21.9 17.8 26.6



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

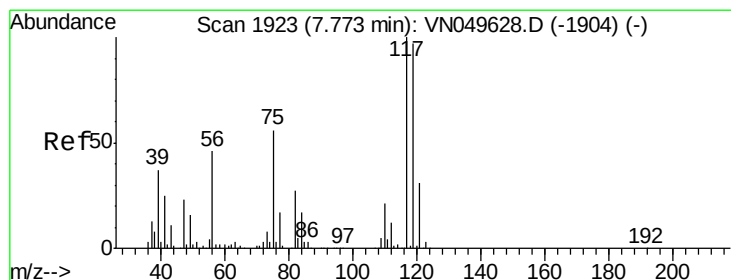
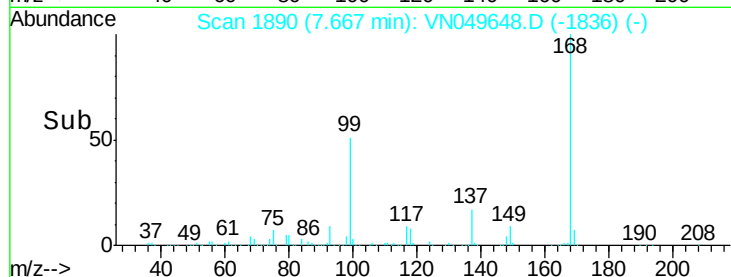
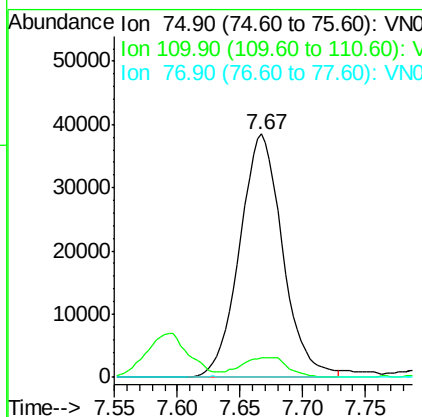
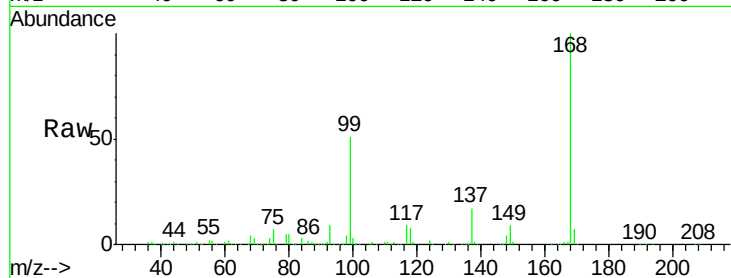




#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049648.D
 Acq: 30 Jun 2018 15:44

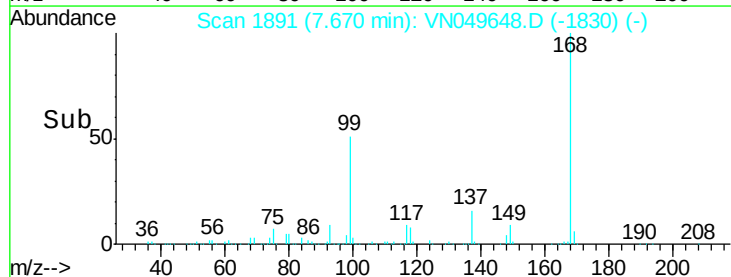
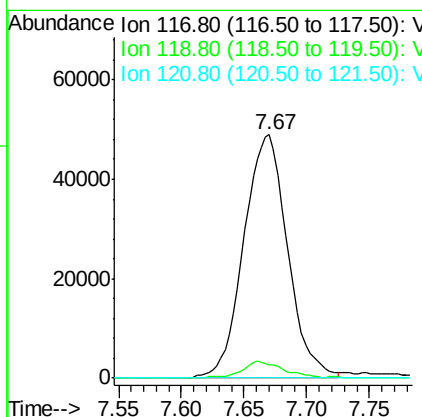
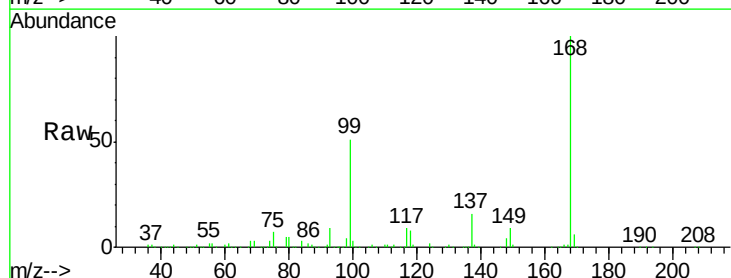
Instrument :
 MSVOA_N
 ClientSampled :

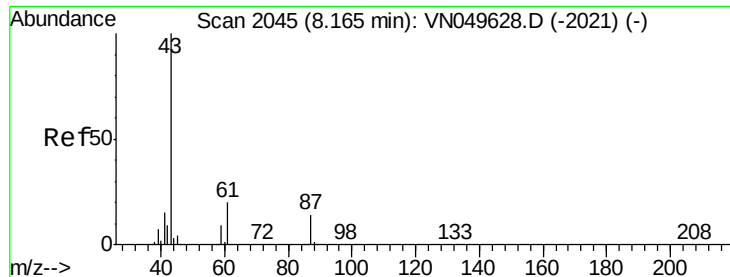
Tot Ion	75	Resp	91804
Ion Ratio	100	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.01 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN049648.D
 Acq: 30 Jun 2018 15:44

Tgt Ion	117	Resp	118837
Ion Ratio	100	Lower	Upper
117	100		
119	5.6	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 0.41 ug/l

RT: 8.20 min Scan# 2057

Delta R.T. 0.04 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampled :

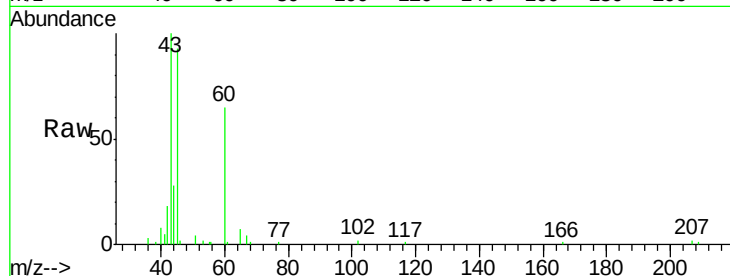
Tot Ion: 43 Resp: 27881

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

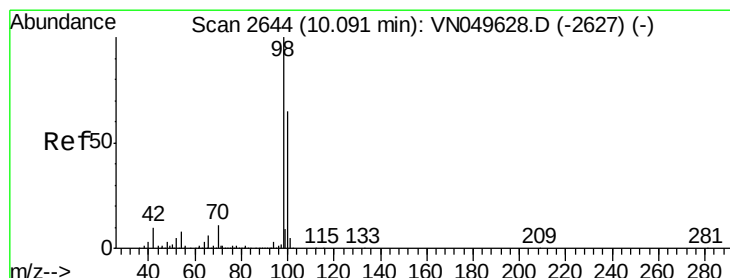
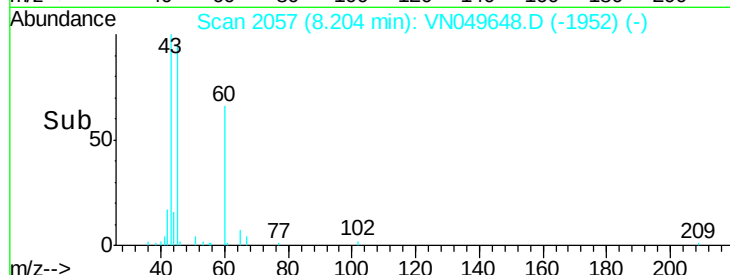
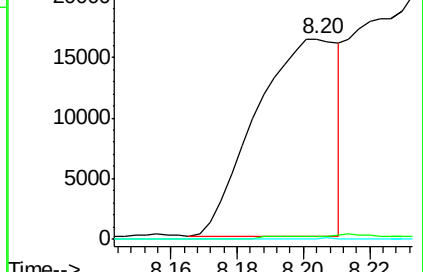
87 0.1 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049648.D (-1952) (-)

Ion 61.00 (60.70 to 61.70): VN049648.D (-1952) (-)

Ion 87.00 (86.70 to 87.70): VN049648.D (-1952) (-)



#50

Toluene-d8

Concen: 46.11 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049648.D

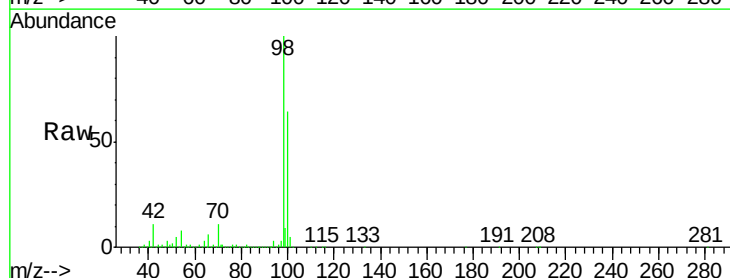
Acq: 30 Jun 2018 15:44

Tgt Ion: 98 Resp: 2922800

Ion Ratio Lower Upper

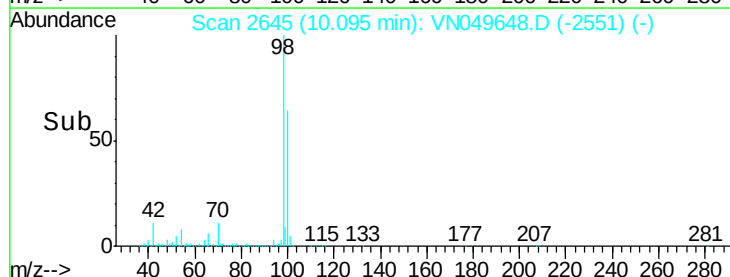
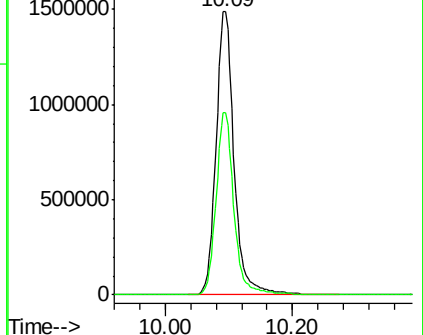
98 100

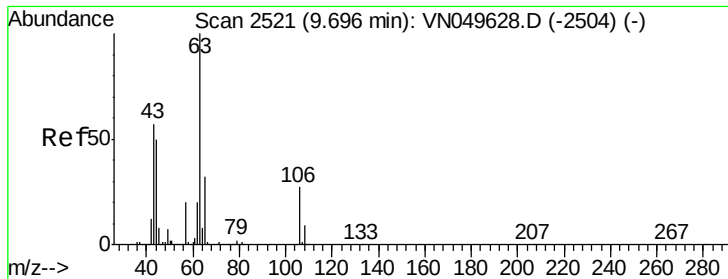
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049648.D (-2551) (-)

Ion 100.00 (99.70 to 100.70): VN049648.D (-2551) (-)





#58

2-Chloroethyl Vinyl ether

Concen: 10.83 ug/l

RT: 9.71 min Scan# 2525

Delta R.T. 0.01 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

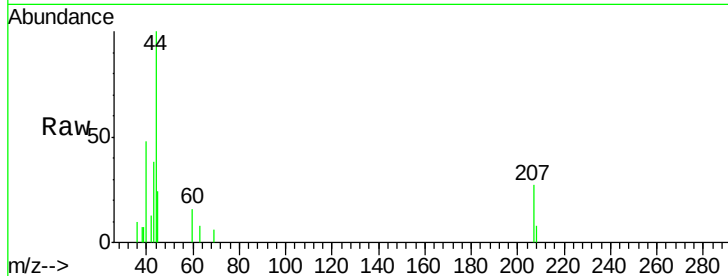
ClientSampled :

Tot Ion: 63 Resp: 103

Ion Ratio Lower Upper

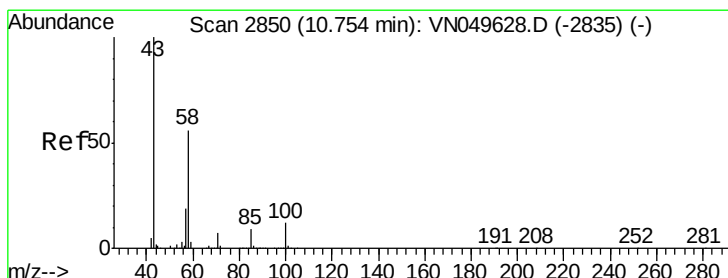
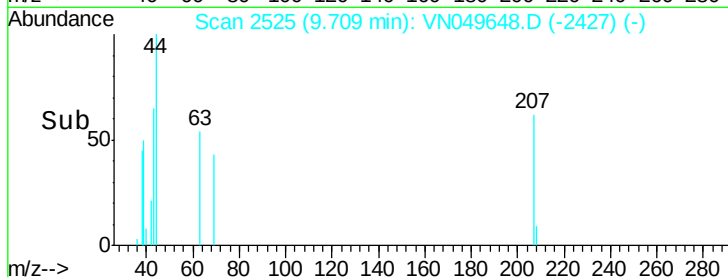
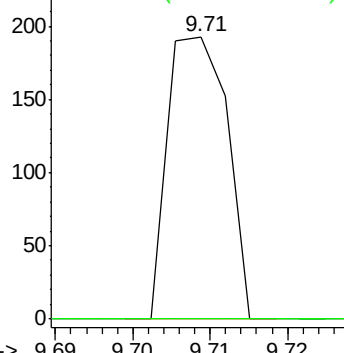
63 100

106 0.0 21.8 32.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 0.20 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN049648.D

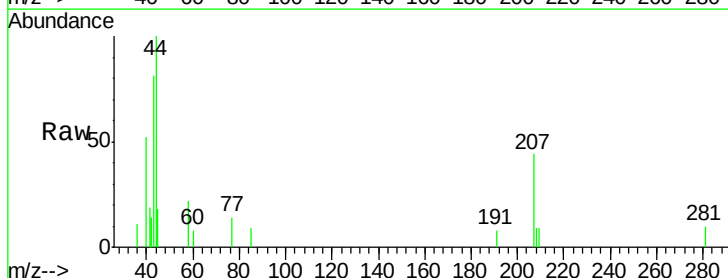
Acq: 30 Jun 2018 15:44

Tgt Ion: 43 Resp: 1864

Ion Ratio Lower Upper

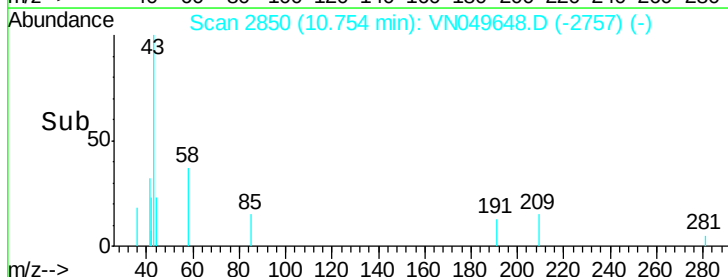
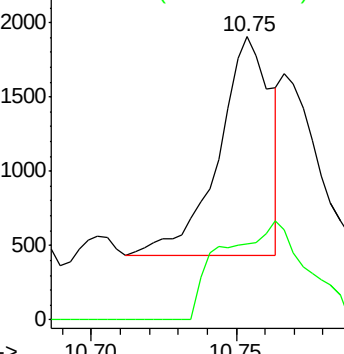
43 100

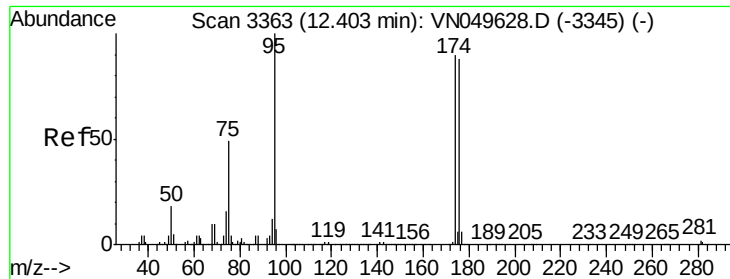
58 71.4 27.8 83.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

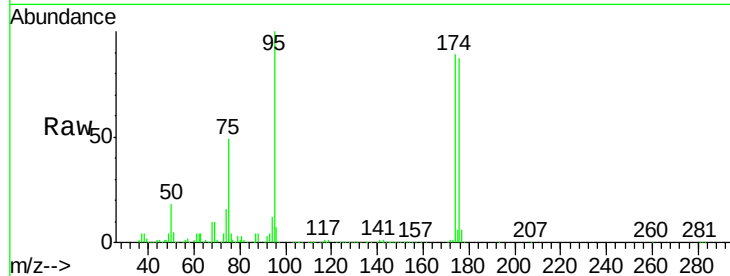
Tot Ion: 95 Resp: 833019

Ion Ratio Lower Upper

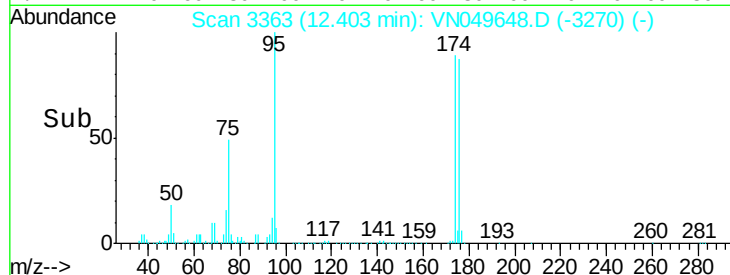
95 100

174 89.2 0.0 179.6

176 86.1 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049648.D (-3270) (-)

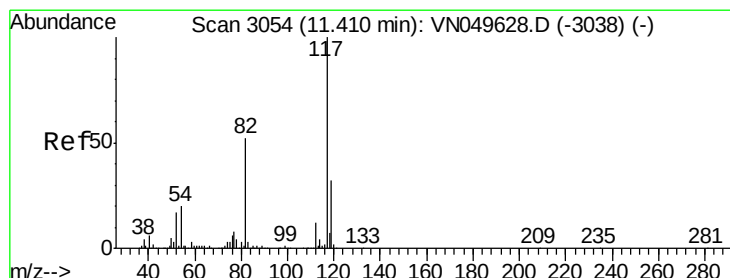


Ion 173.80 (173.50 to 174.50): VN049648.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049648.D (-3270) (-)

Time-->

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

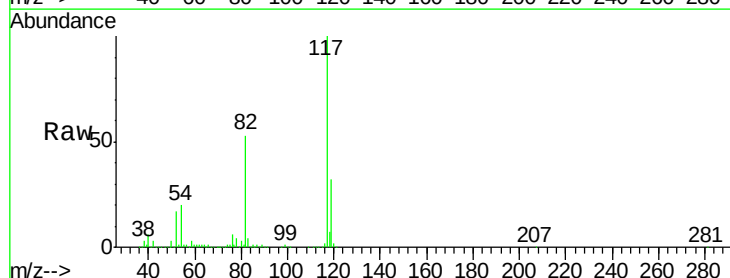
Tgt Ion: 117 Resp: 1802654

Ion Ratio Lower Upper

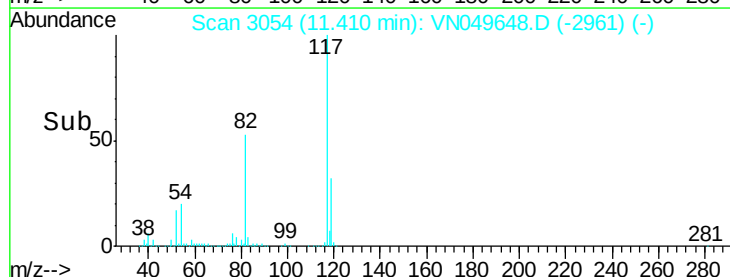
117 100

82 52.7 41.9 62.9

119 31.8 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN049648.D (-2961) (-)

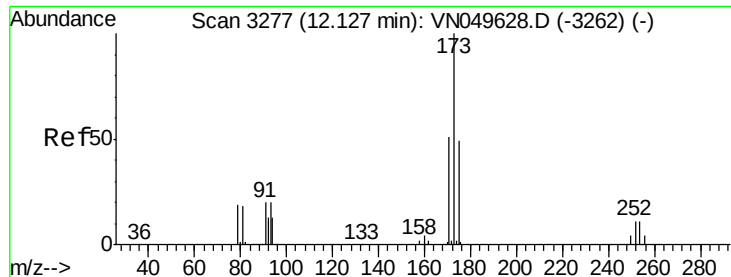


Ion 82.00 (81.70 to 82.70): VN049648.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049648.D (-2961) (-)

Time-->

11.30 11.40 11.50



#71

Bromoform

Concen: 0.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

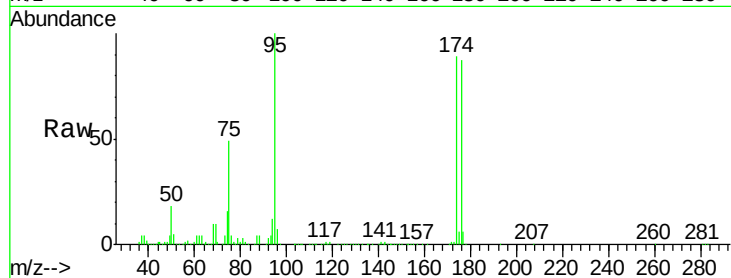
Tot Ion:173 Resp: 5827

Ion Ratio Lower Upper

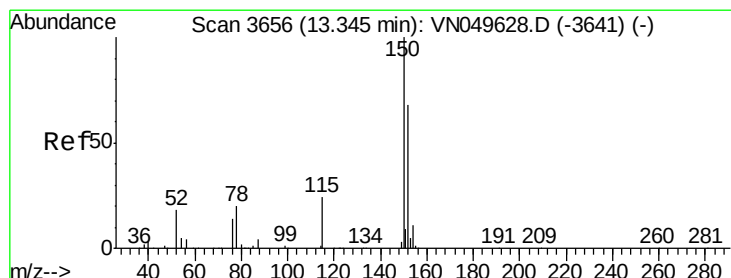
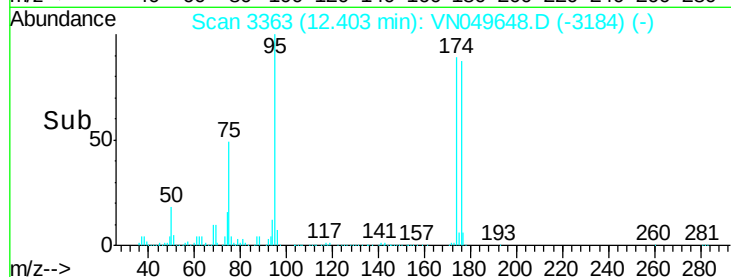
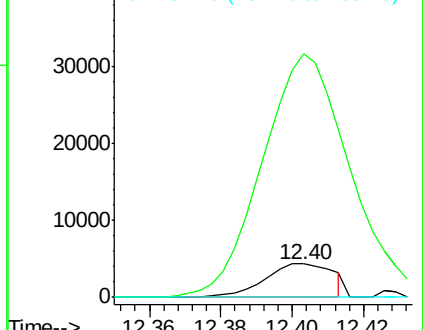
173 100

175 749.2 24.6 73.8#

254 0.0 0.2 0.2#



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: VN049648.D

Acq: 30 Jun 2018 15:44

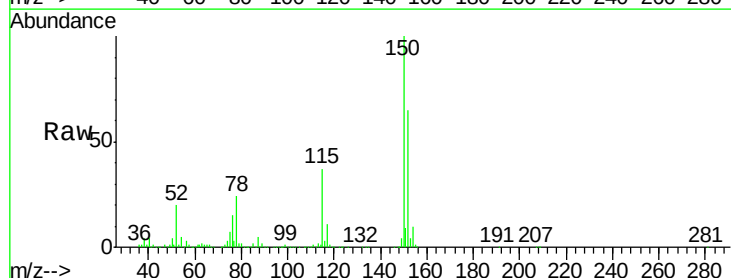
Tgt Ion:152 Resp: 657167

Ion Ratio Lower Upper

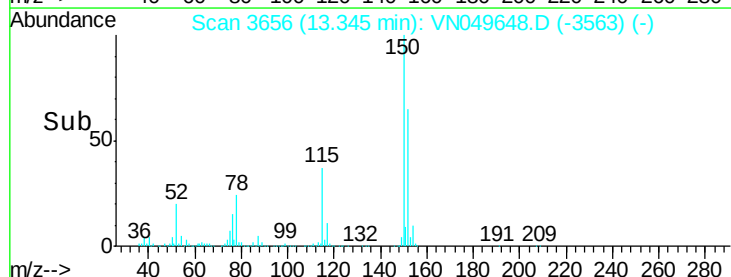
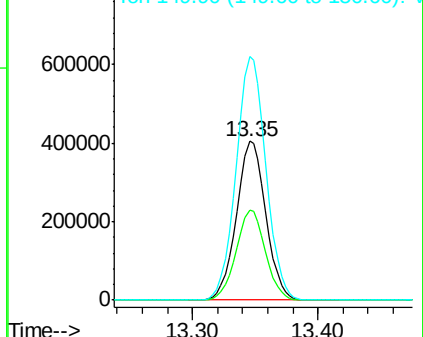
152 100

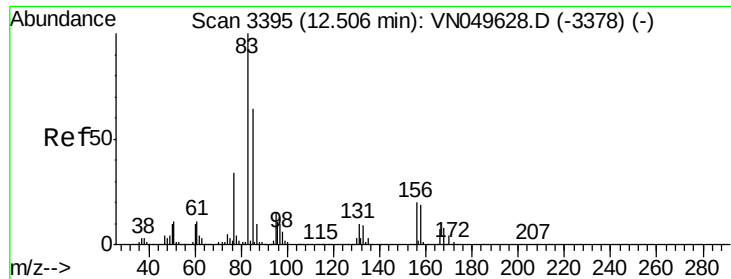
115 56.6 28.1 84.2

150 155.7 0.0 347.6



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# 3392

Delta R.T. -0.01 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

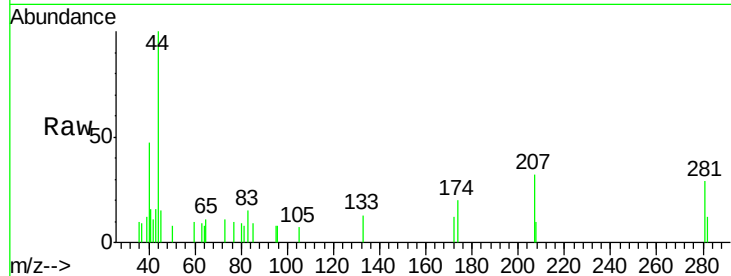
Tot Ion: 83 Resp: 335

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

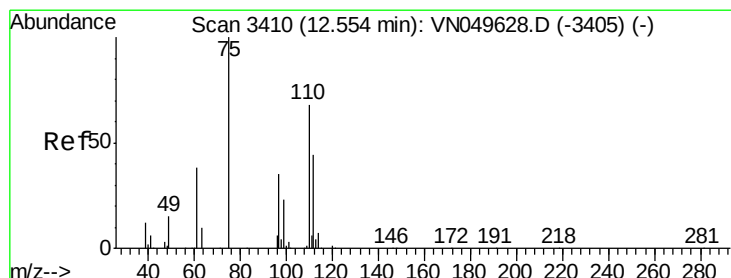
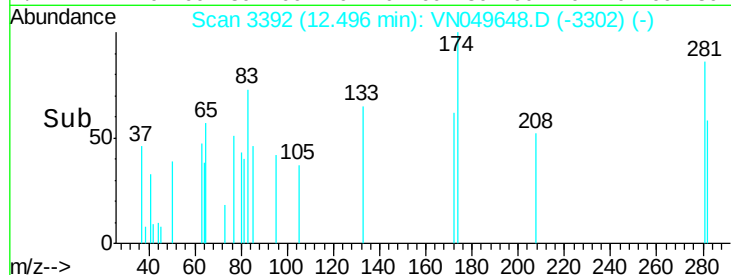
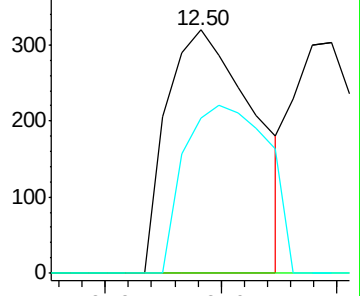
85 66.0 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 38.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049648.D

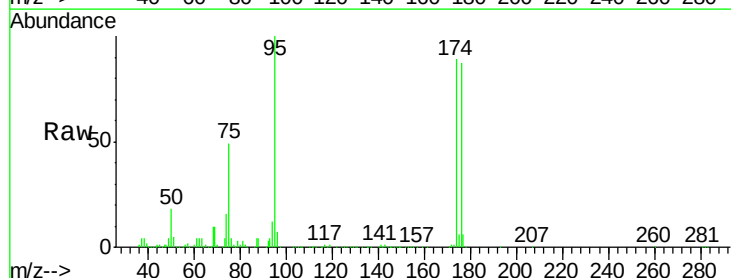
Acq: 30 Jun 2018 15:44

Tgt Ion: 75 Resp: 402545

Ion Ratio Lower Upper

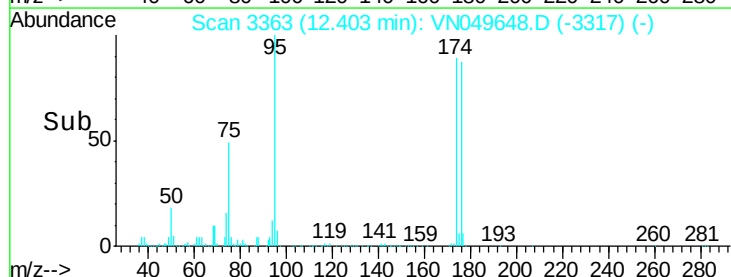
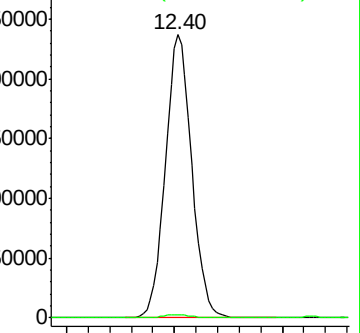
75 100

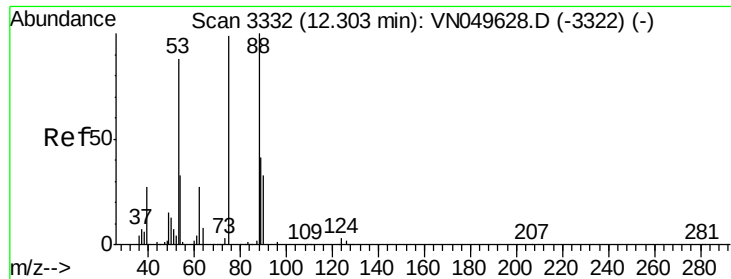
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 129.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

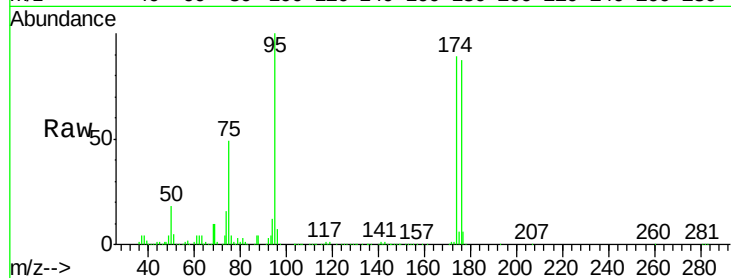
Tot Ion: 75 Resp: 402545

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 35.9 53.9#

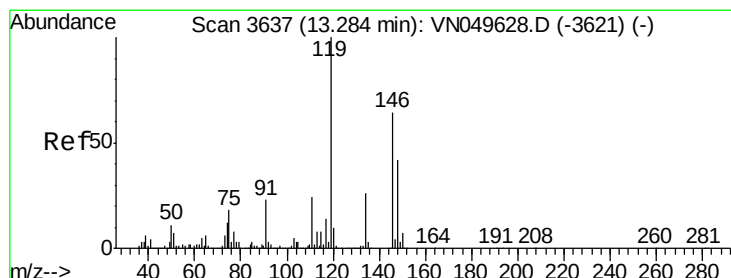
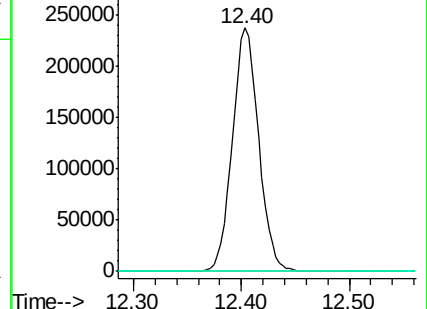
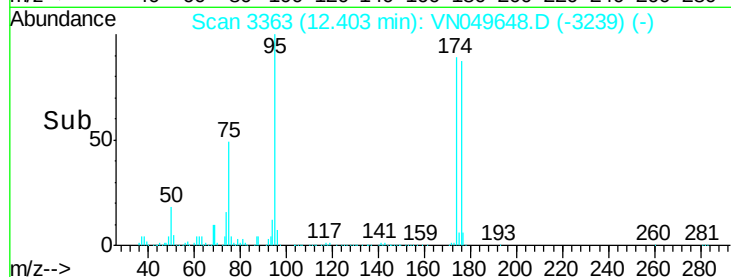


Abundance Ion 74.90 (74.60 to 75.60): VN049648.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049648.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049648.D (-3363) (-)

Time--> 12.30 12.40 12.50



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.28 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

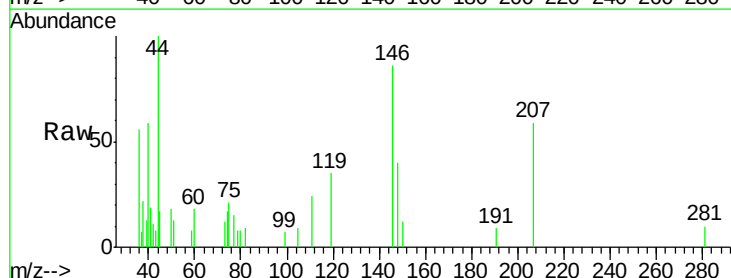
Tgt Ion: 146 Resp: 2638

Ion Ratio Lower Upper

146 100

111 30.1 19.0 57.0

148 65.5 32.5 97.5

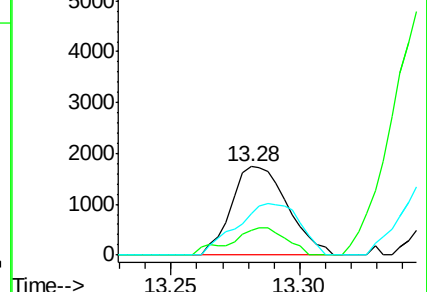
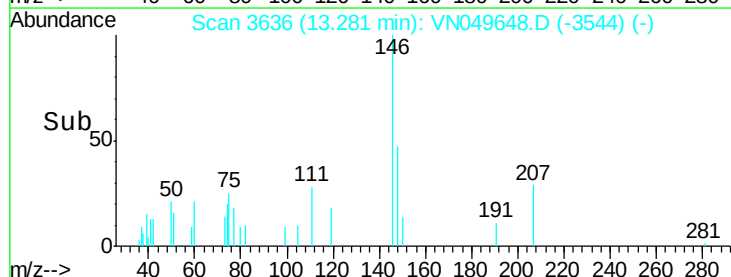


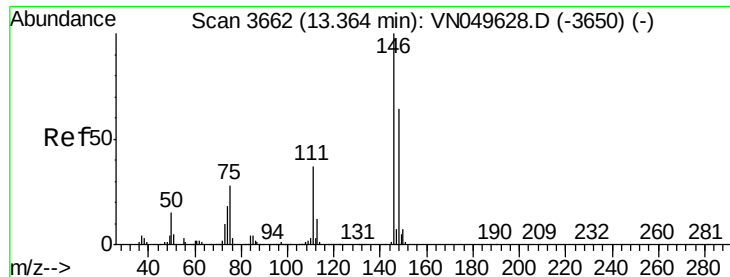
Abundance Ion 145.90 (145.60 to 146.60): VN049648.D (-3636) (-)

Ion 110.90 (110.60 to 111.60): VN049648.D (-3636) (-)

Ion 147.90 (147.60 to 148.60): VN049648.D (-3636) (-)

Time--> 13.25 13.30





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.28 min Scan# 3636

Delta R.T. -0.08 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

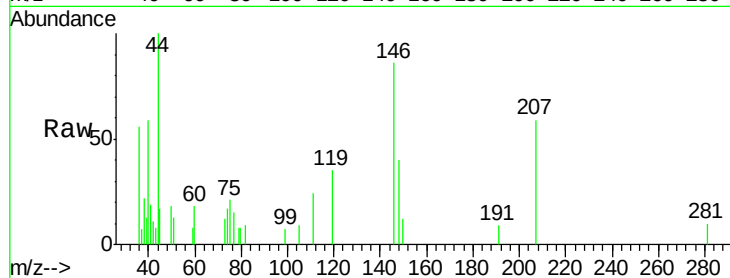
Tot Ion:146 Resp: 2638

Ion Ratio Lower Upper

146 100

111 30.1 18.9 56.5

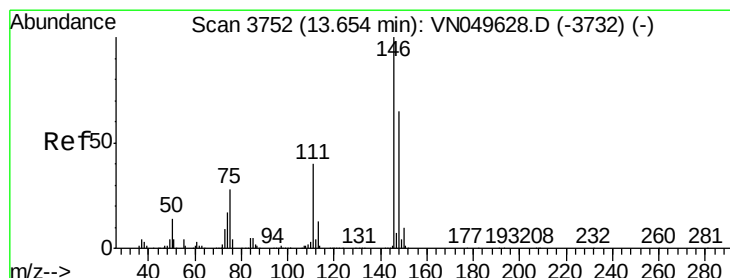
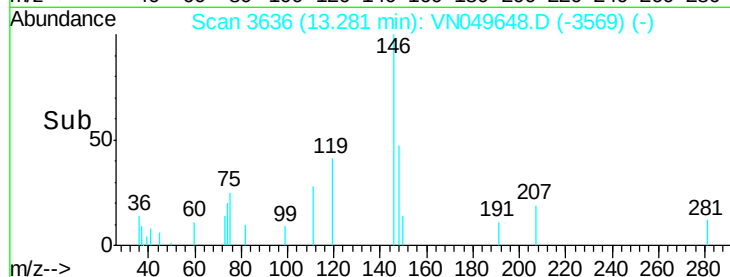
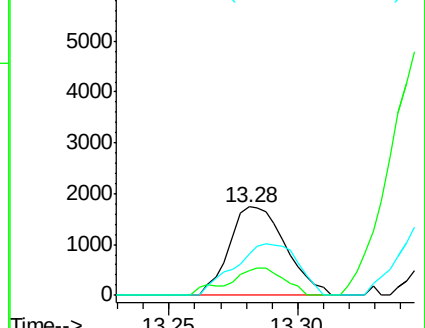
148 65.5 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

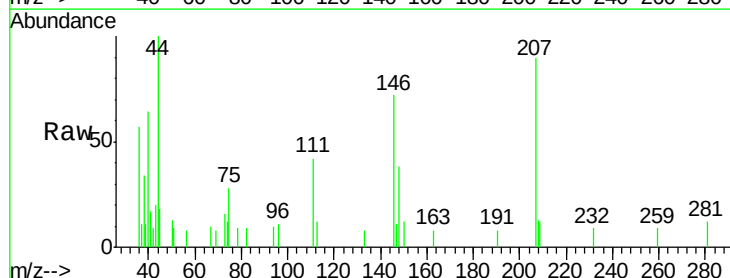
Tgt Ion:146 Resp: 2385

Ion Ratio Lower Upper

146 100

111 49.9 19.7 59.1

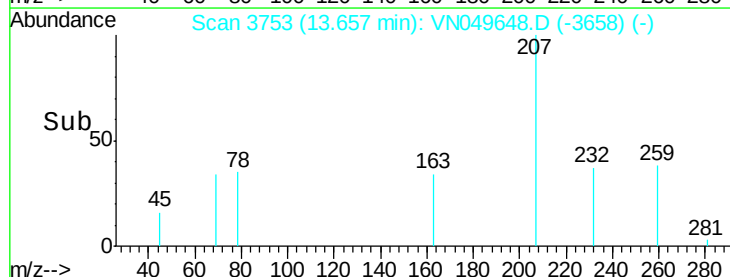
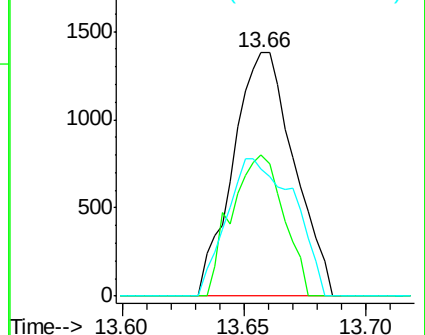
148 62.8 32.0 96.2

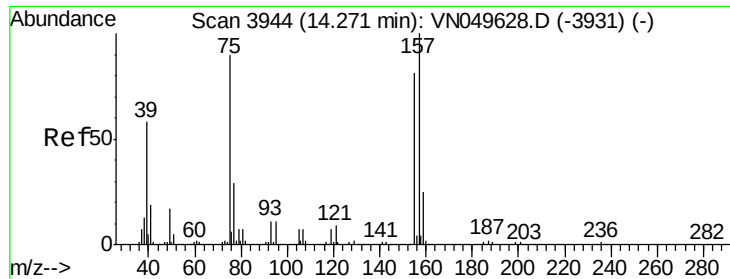


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

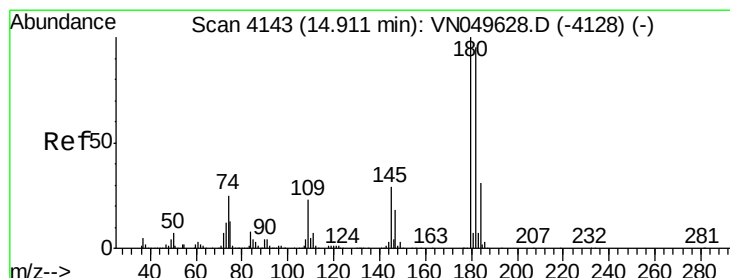
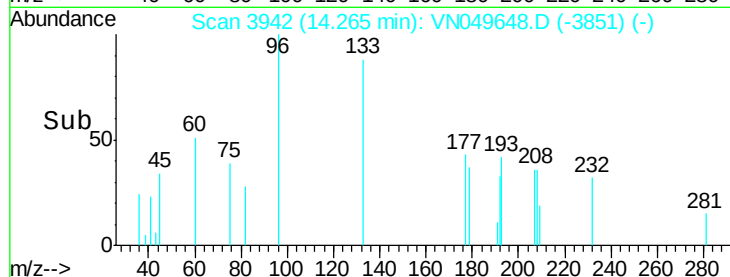
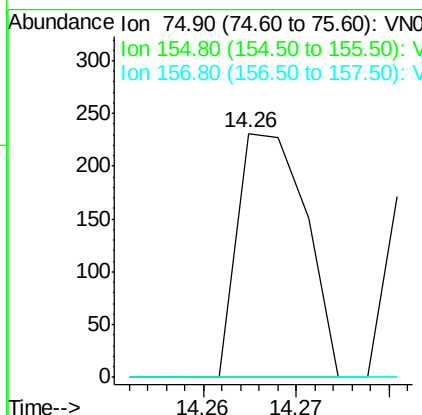
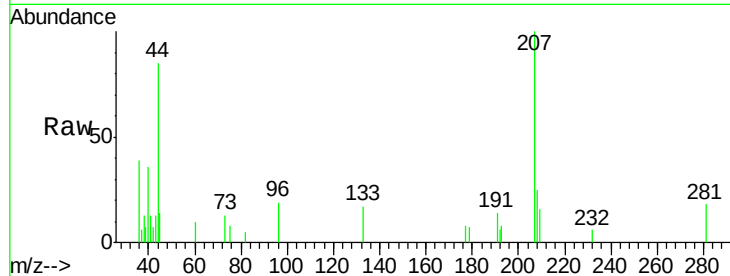




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3942
 Delta R.T. -0.01 min
 Lab File: VN049648.D
 Acq: 30 Jun 2018 15:44

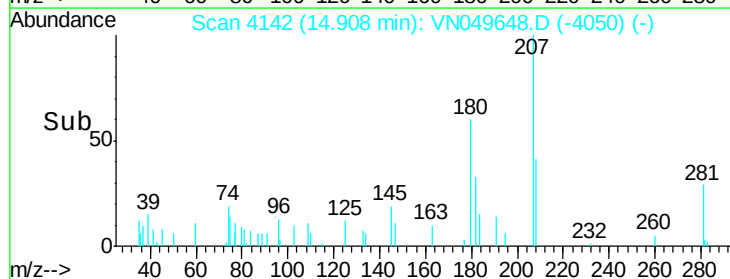
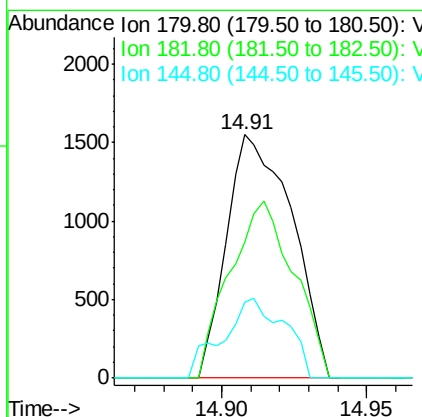
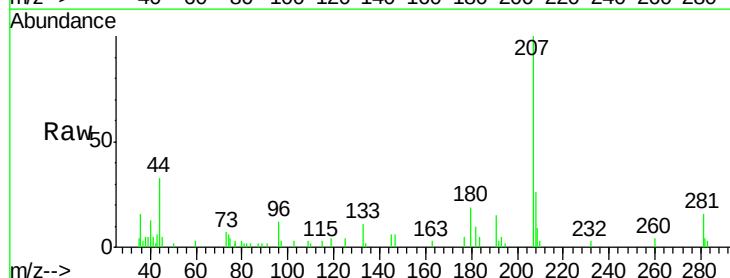
Instrument :
 MSVOA_N
 ClientSampled :

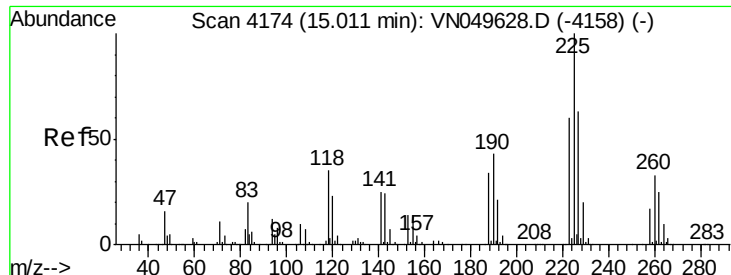
Tot Ion: 75 Resp: 118
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.59 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN049648.D
 Acq: 30 Jun 2018 15:44

Tgt Ion: 180 Resp: 2423
 Ion Ratio Lower Upper
 180 100
 182 71.4 47.3 141.9
 145 30.8 14.4 43.0





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.02 min Scan# 4176

Delta R.T. 0.01 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

Instrument :

MSVOA_N

ClientSampled :

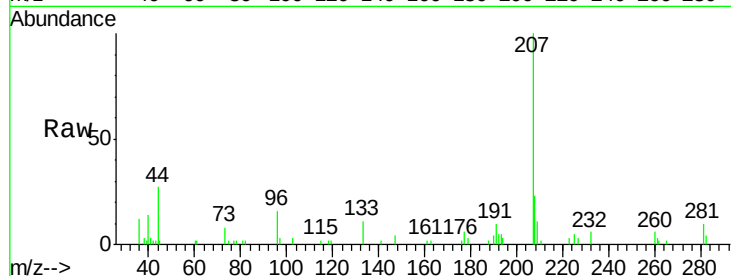
Tot Ion:225 Resp: 728

Ion Ratio Lower Upper

225 100

223 35.4 30.9 92.7

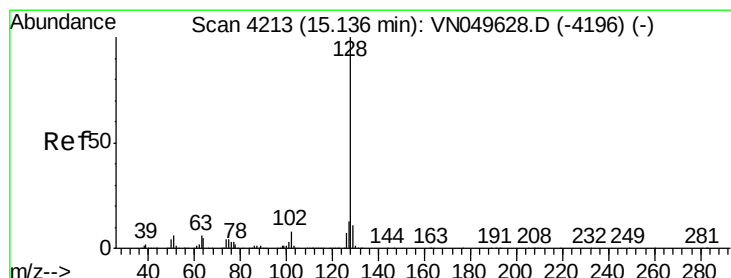
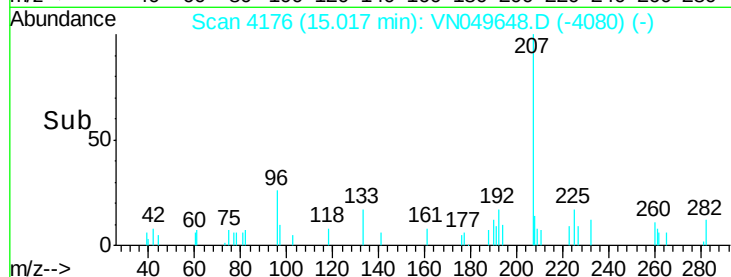
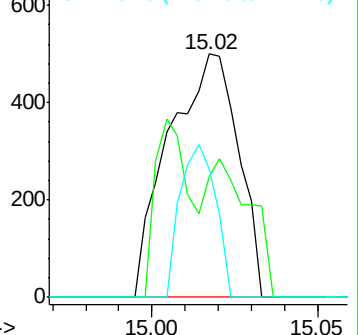
227 32.1 31.8 95.4



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: 4.23 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049648.D

Acq: 30 Jun 2018 15:44

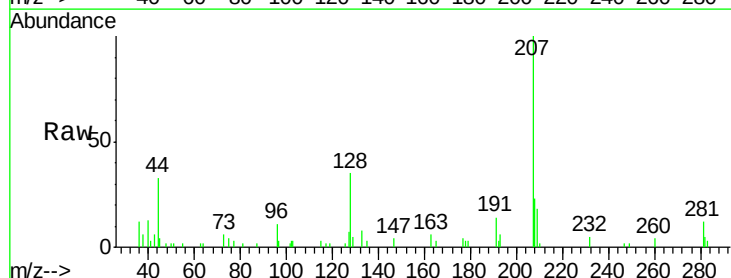
Tgt Ion:128 Resp: 5596

Ion Ratio Lower Upper

128 100

127 16.2 10.4 15.6#

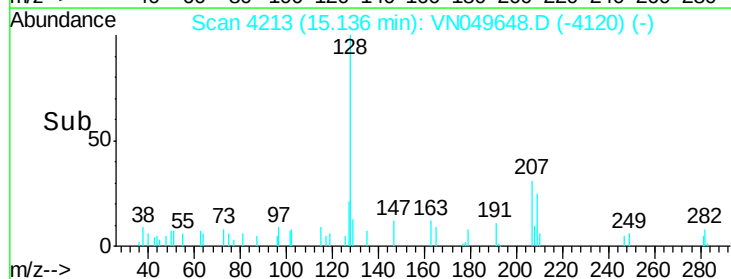
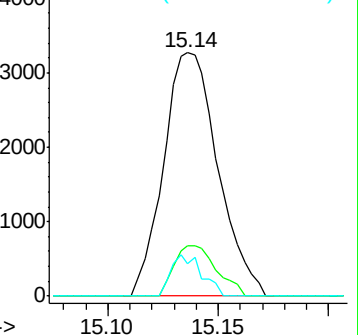
129 9.6 8.6 13.0

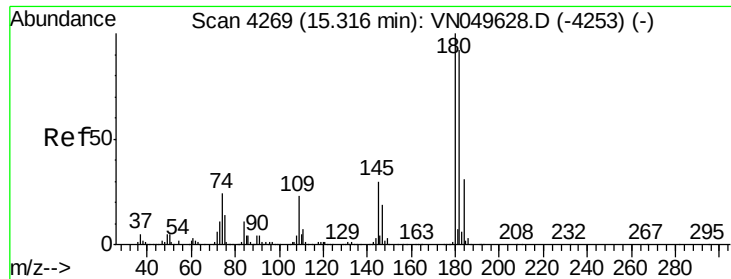


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.85 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. 0.00 min
 Lab File: VN049648.D
 Acq: 30 Jun 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2465
 Ion Ratio Lower Upper
 180 100
 182 96.4 47.4 142.2
 145 13.3 15.2 45.6#

