

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062118\
 Data File : VN049468.D
 Acq On : 21 Jun 2018 15:00
 Operator : MD\SY
 Sample : PB110441ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 03:37:57 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	1128584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1851435	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1505679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	408917	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	798877	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
35) Dibromofluoromethane	7.59	113	700055	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	10.09	98	2494987	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	
62) 4-Bromofluorobenzene	12.41	95	613483	32.53	ug/l	0.00
Spiked Amount			Recovery	=	65.06%	

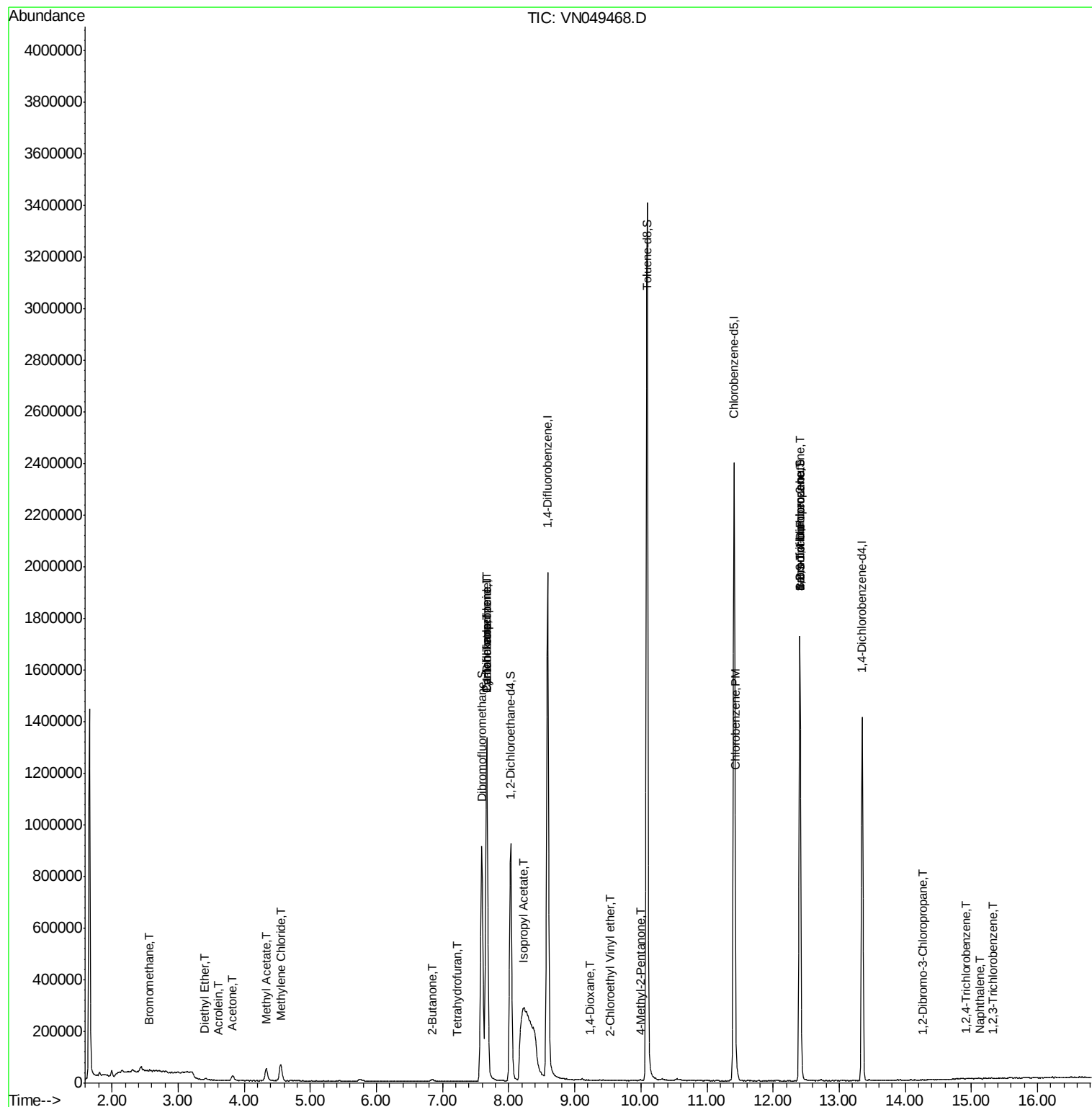
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	3459	0.37	ug/l	91
8) Diethyl Ether	3.41	74	3494	0.45	ug/l	96
13) Acrolein	3.61	56	596	0.65	ug/l	91
16) Acetone	3.82	43	30202	8.31	ug/l #	89
18) Methyl Acetate	4.33	43	93673	8.45	ug/l	98
20) Methylene Chloride	4.55	84	46769	3.08	ug/l	90
25) 2-Butanone	6.85	43	4314	0.88	ug/l #	87
29) Tetrahydrofuran	7.22	42	907	0.29	ug/l #	65
31) Cyclohexane	7.67	56	20927	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78991	3.72	ug/l #	50
38) Carbon Tetrachloride	7.67	117	102925	4.69	ug/l #	17
43) Isopropyl Acetate	8.22	43	292817	13.29	ug/l #	64
49) 1,4-Dioxane	9.24	88	35	0.24	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3856	0.33	ug/l #	75
58) 2-Chloroethyl Vinyl ether	9.54	63	30	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	14846	0.38	ug/l	100
71) Bromoform	12.41	173	4446	0.47	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.43	83	101	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	296224	42.46	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	296224	134.18	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	412	0.33	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	65	4.75	ug/l #	13
95) Naphthalene	15.14	128	677	2.14	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	70	3.47	ug/l #	13

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 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: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

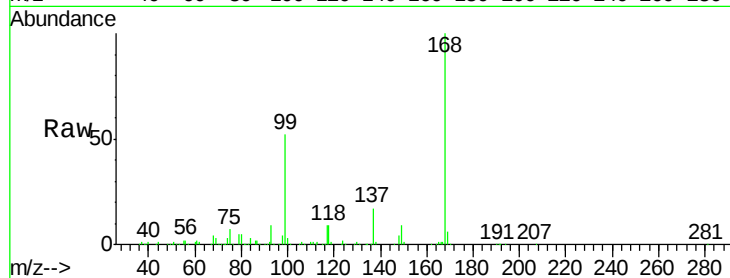
ClientSampleId :

Tot Ion:168 Resp: 1128584

Ion Ratio Lower Upper

168 100

99 52.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

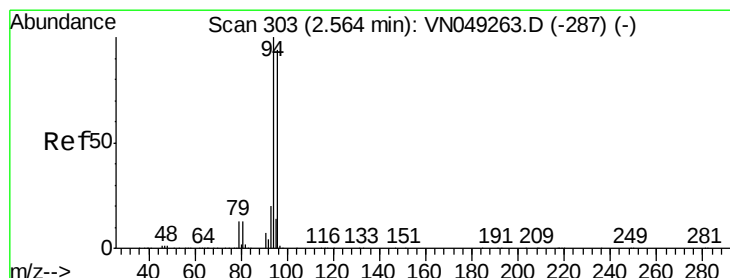
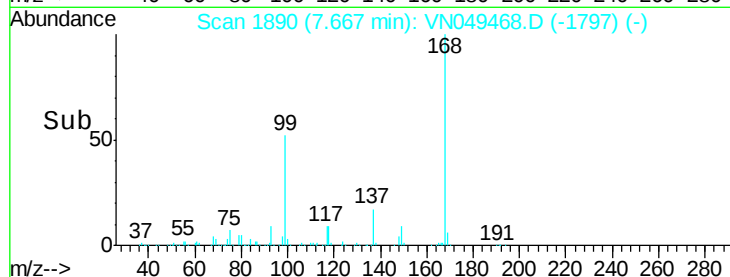
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.37 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049468.D

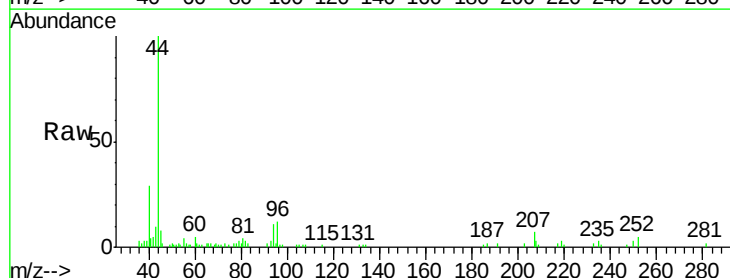
Acq: 21 Jun 2018 15:00

Tgt Ion: 94 Resp: 3459

Ion Ratio Lower Upper

94 100

96 82.1 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

2000

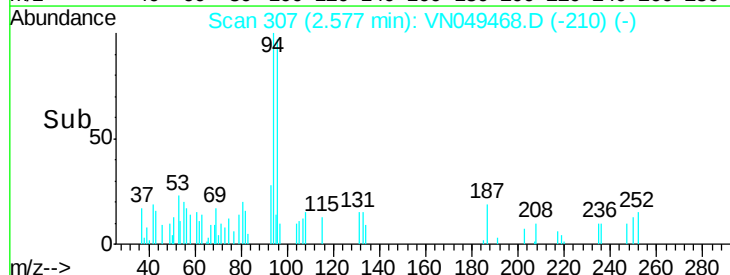
1500

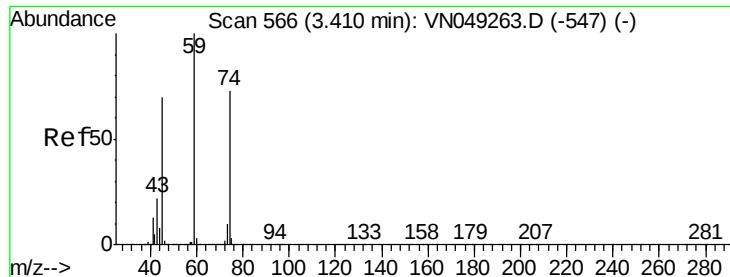
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 0.45 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

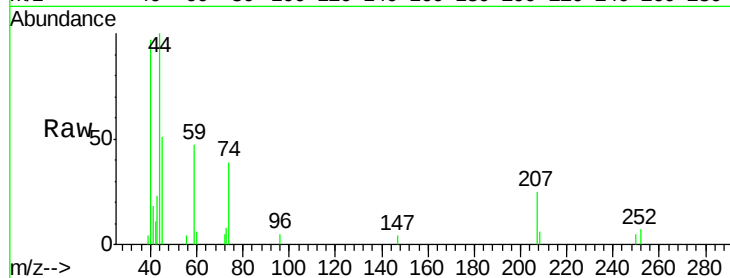
ClientSampled :

Tot Ion: 74 Resp: 3494

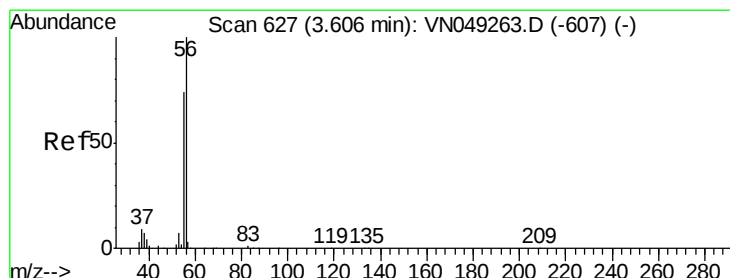
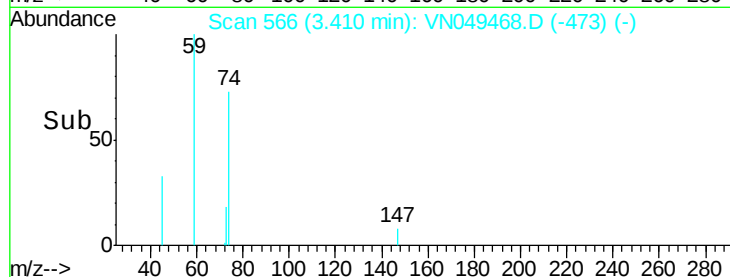
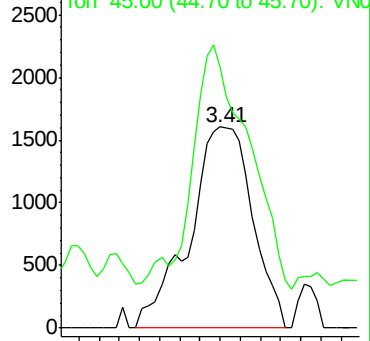
Ion Ratio Lower Upper

74 100

45 107.7 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VN049468.D (-547) (-)



#13

Acrolein

Concen: 0.65 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049468.D

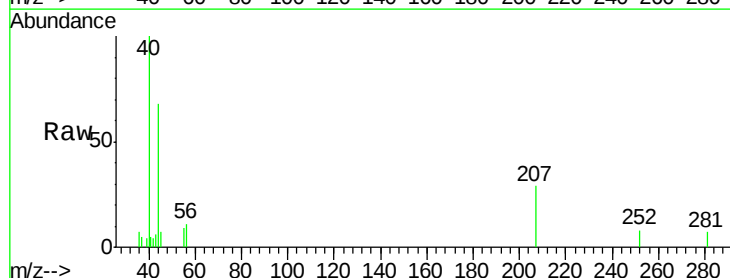
Acq: 21 Jun 2018 15:00

Tgt Ion: 56 Resp: 596

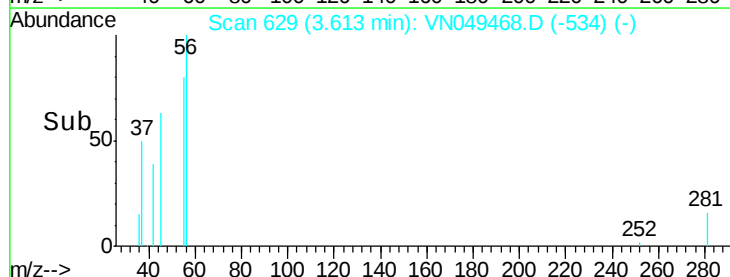
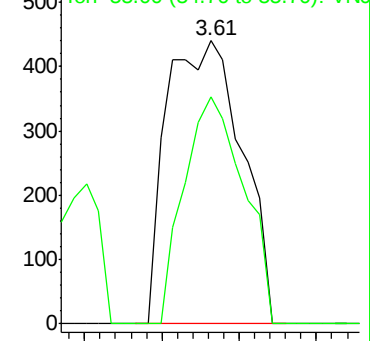
Ion Ratio Lower Upper

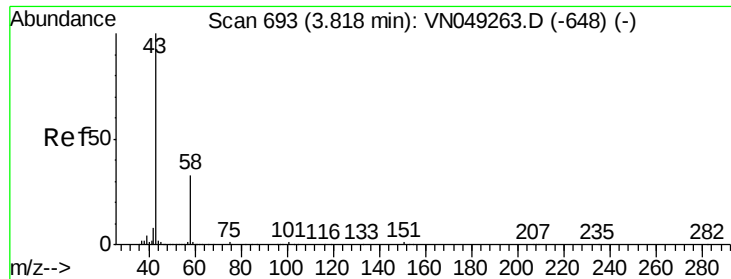
56 100

55 63.8 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN049468.D (-534) (-)





#16

Acetone

Concen: 8.31 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

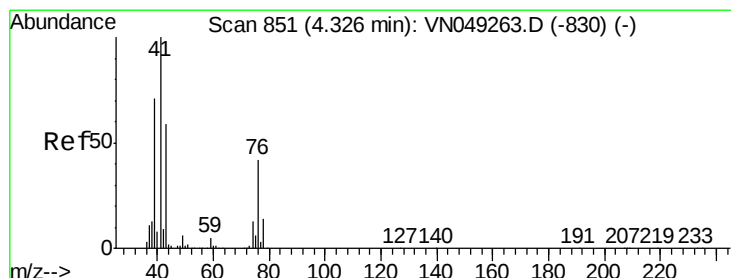
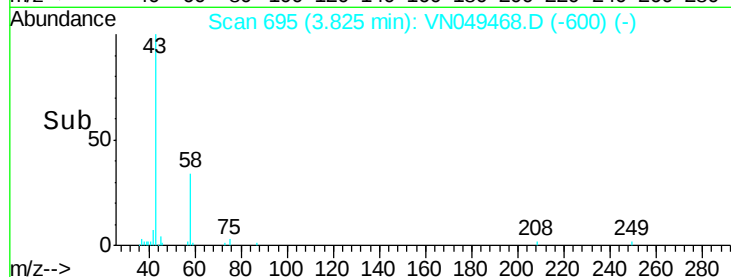
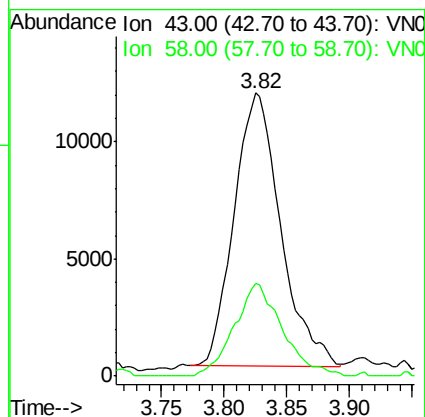
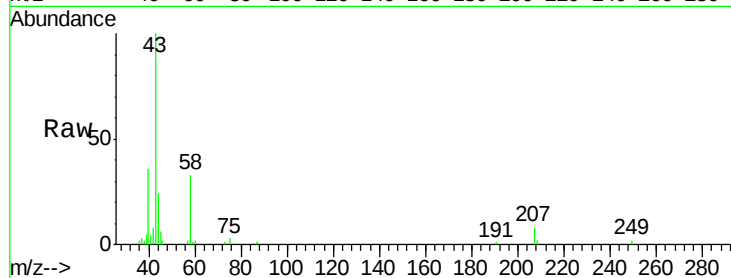
ClientSampled :

Tot Ion: 43 Resp: 30202

Ion Ratio Lower Upper

43 100

58 34.0 22.4 33.6#



#18

Methyl Acetate

Concen: 8.45 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049468.D

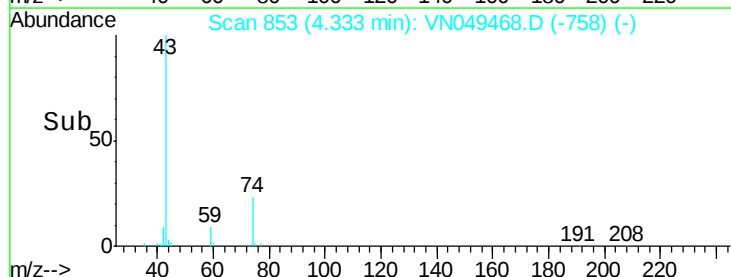
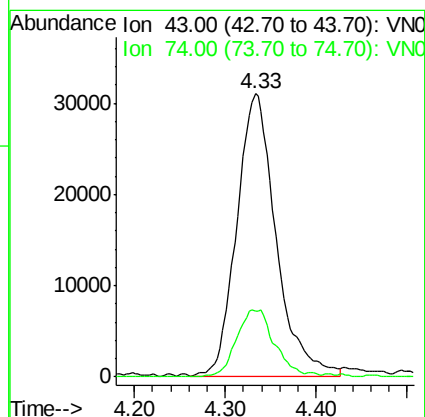
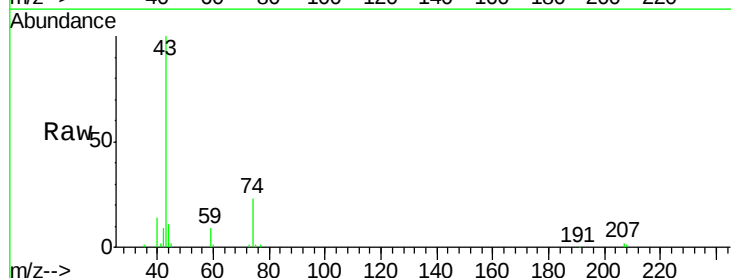
Acq: 21 Jun 2018 15:00

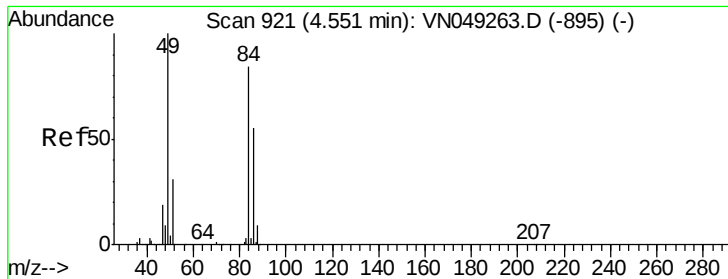
Tgt Ion: 43 Resp: 93673

Ion Ratio Lower Upper

43 100

74 22.6 17.4 26.0

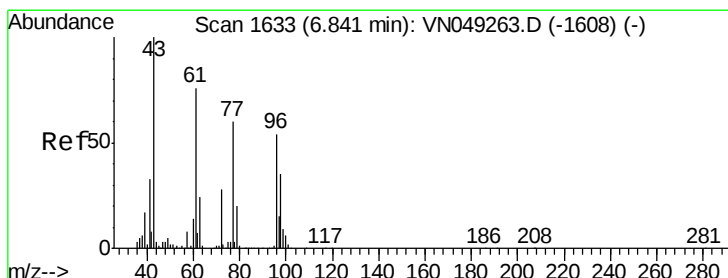
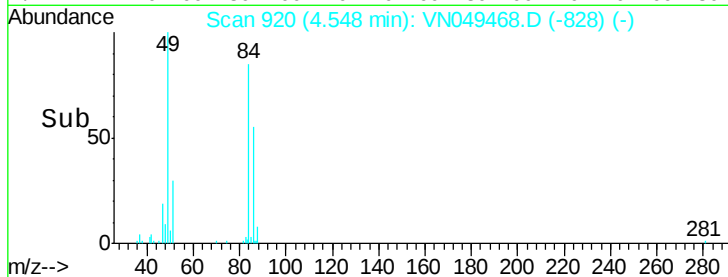
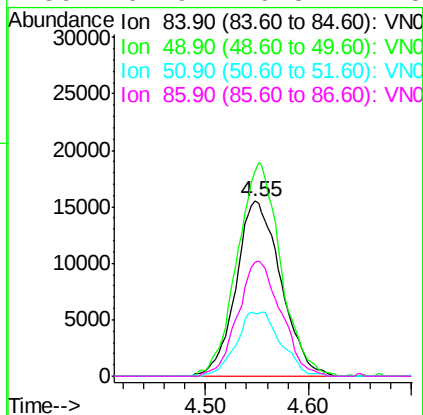
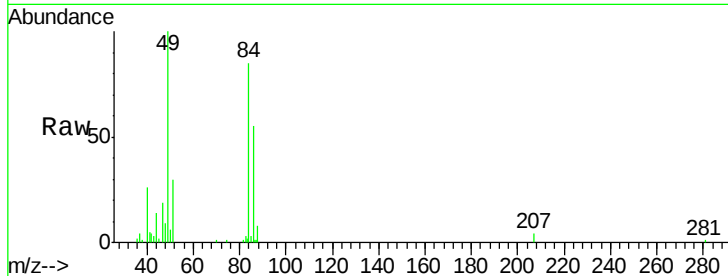




#20
Methvlene Chloride
Concen: 3.08 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

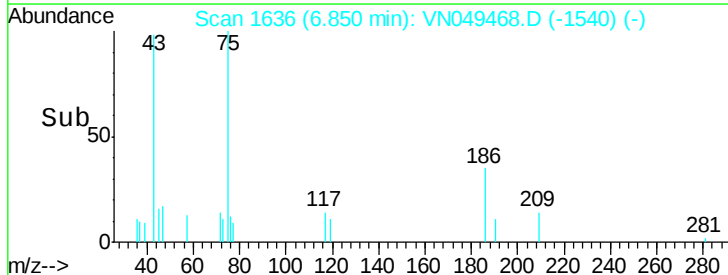
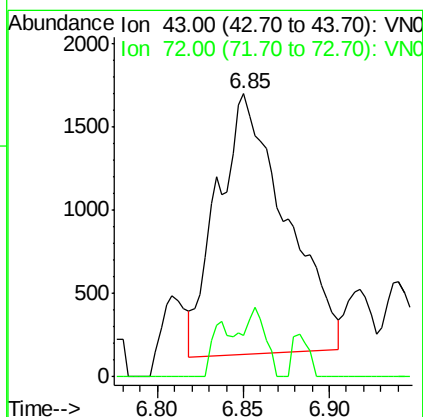
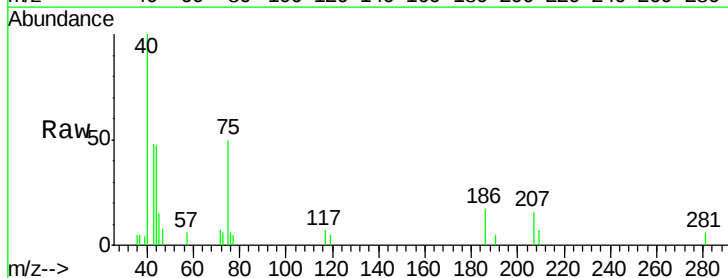
Instrument :
MSVOA_N
ClientSampled :

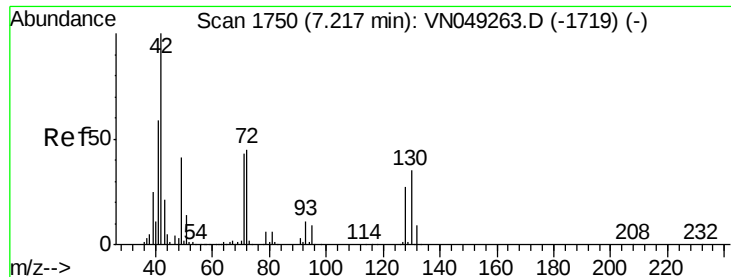
Tot Ion:	84	Resp:	46769
Ion	Ratio	Lower	Upper
84	100		
49	117.2	106.9	160.3
51	35.6	32.7	49.1
86	64.9	49.8	74.8



#25
2-Butanone
Concen: 0.88 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Tgt Ion:	43	Resp:	4314
Ion	Ratio	Lower	Upper
43	100		
72	18.6	20.2	30.2#

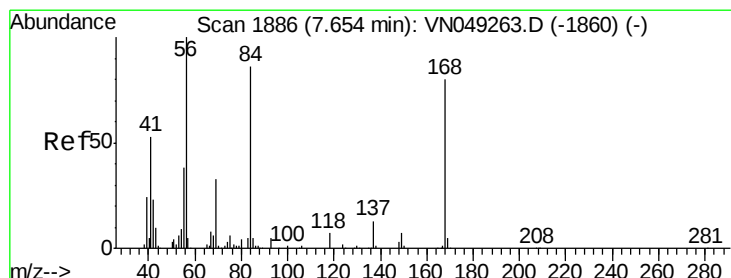
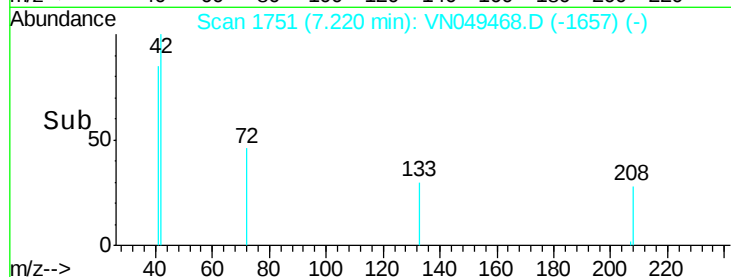
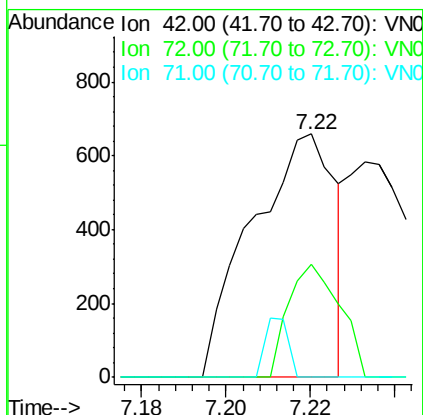
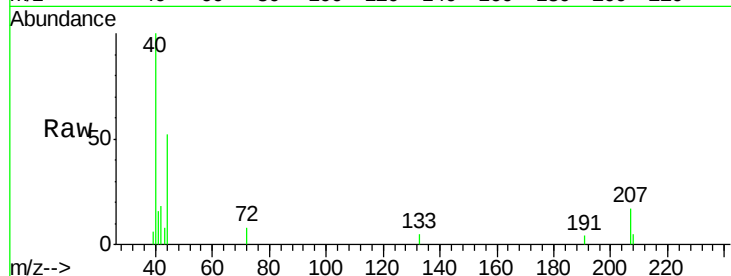




#29
Tetrahydrofuran
Concen: 0.29 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

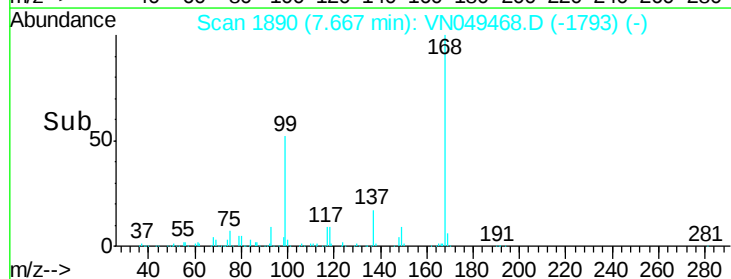
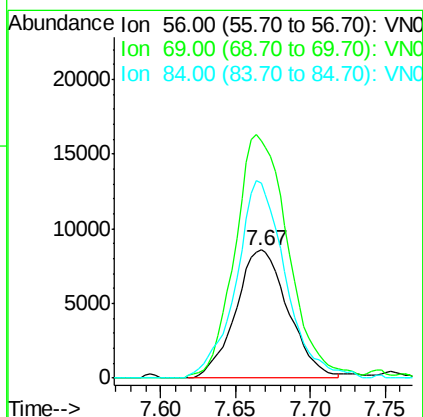
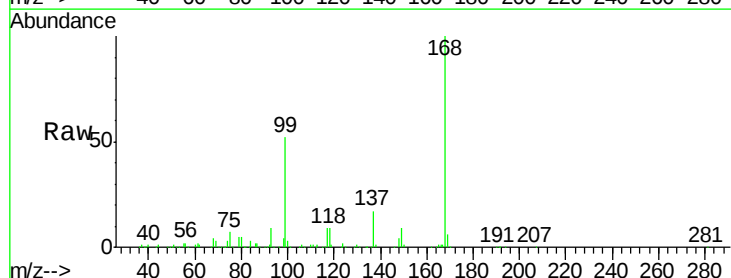
Instrument :
MSVOA_N
ClientSampled :

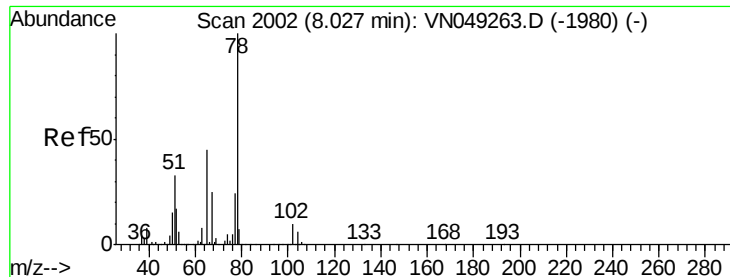
Tot Ion: 42 Resp: 907
Ion Ratio Lower Upper
42 100
72 28.4 32.2 48.4#
71 6.7 30.5 45.7#



#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Tgt Ion: 56 Resp: 20927
Ion Ratio Lower Upper
56 100
69 183.3 25.0 37.4#
84 150.5 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 53.37 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

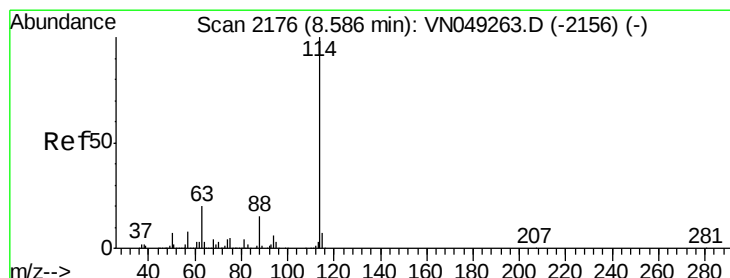
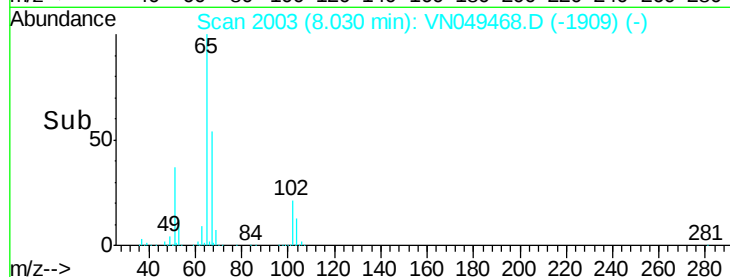
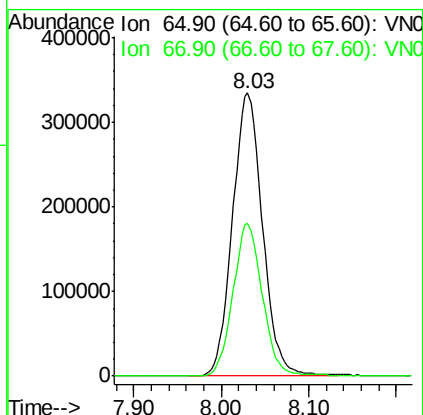
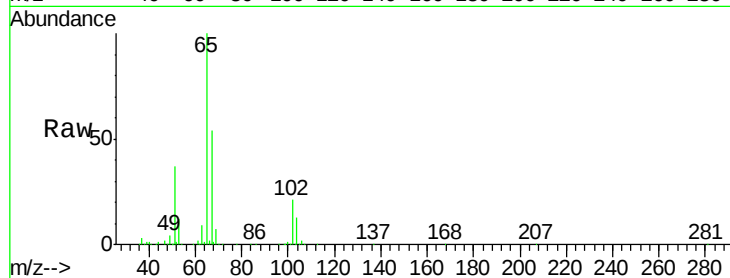
ClientSampleId :

Tot Ion: 65 Resp: 798877

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

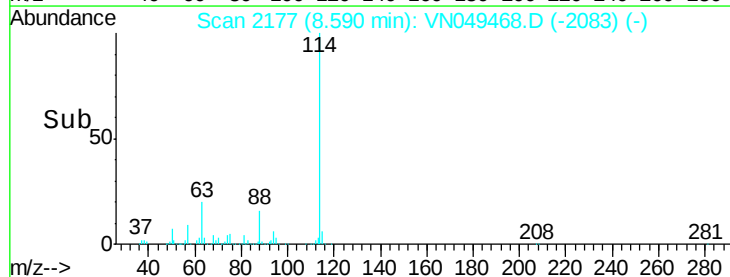
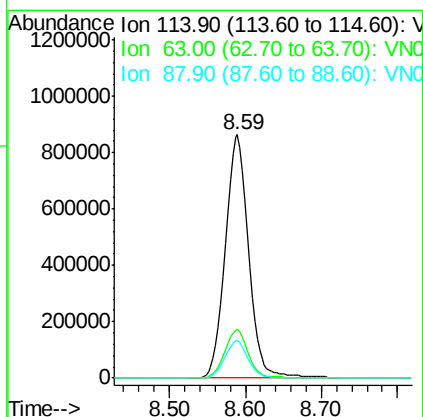
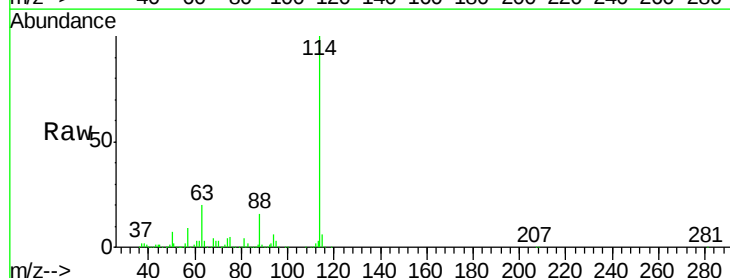
Tgt Ion: 114 Resp: 1851435

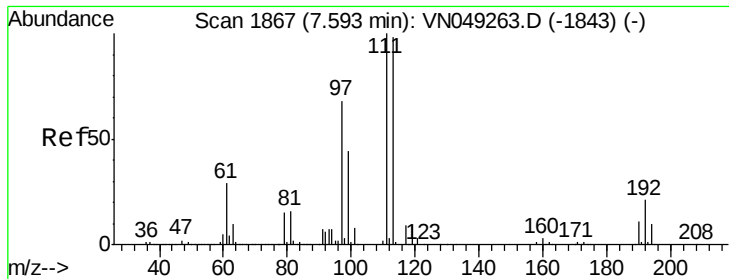
Ion Ratio Lower Upper

114 100

63 19.9 0.0 44.4

88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.74 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :
MSVOA_N
ClientSampleId :

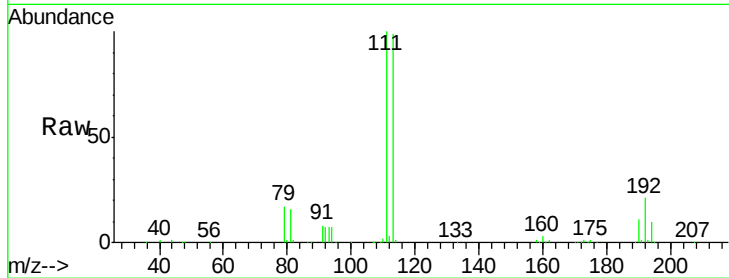
Tot Ion:113 Resp: 700055

Ion Ratio Lower Upper

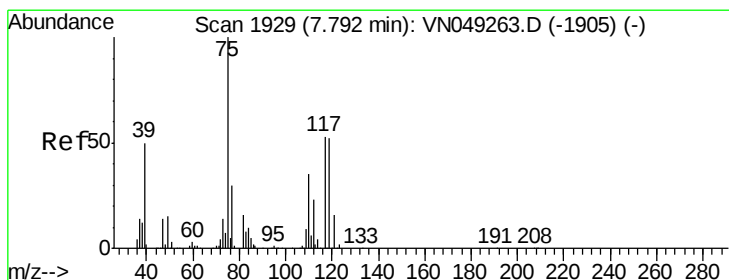
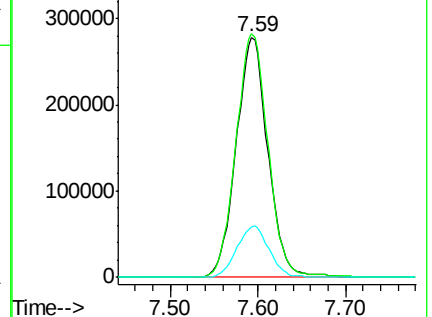
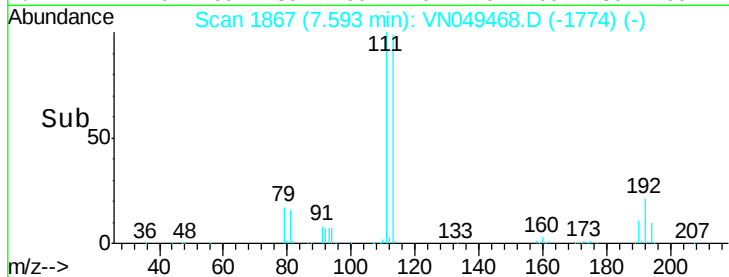
113 100

111 103.1 82.4 123.6

192 21.7 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: 3.72 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

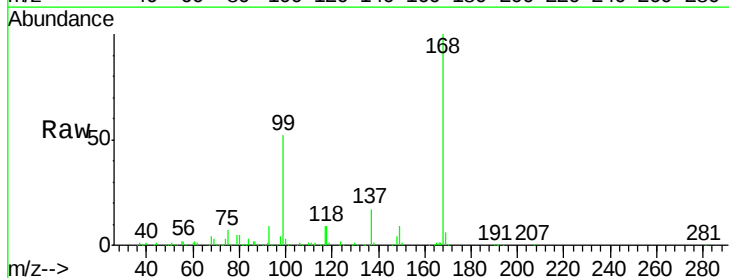
Tgt Ion: 75 Resp: 78991

Ion Ratio Lower Upper

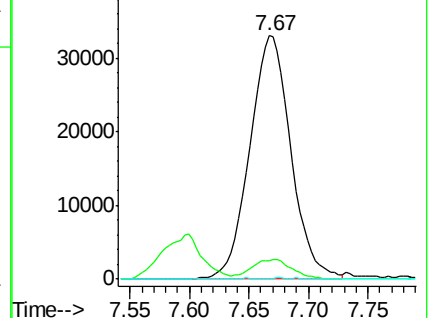
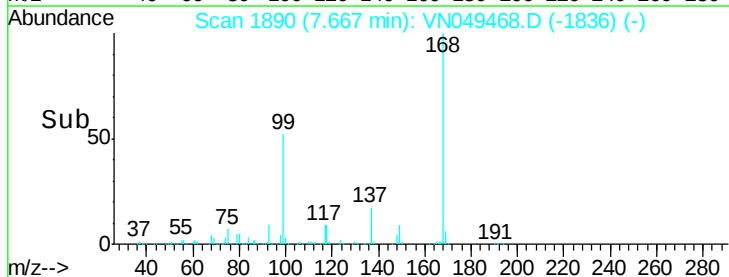
75 100

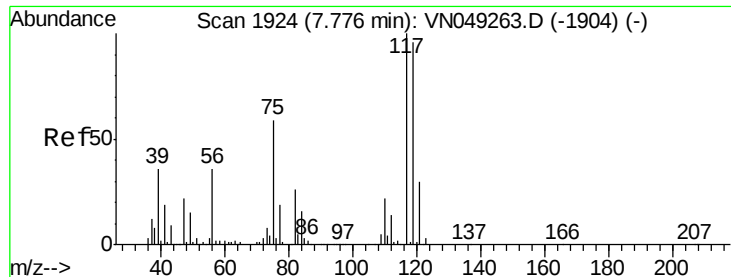
110 8.0 17.0 50.9#

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

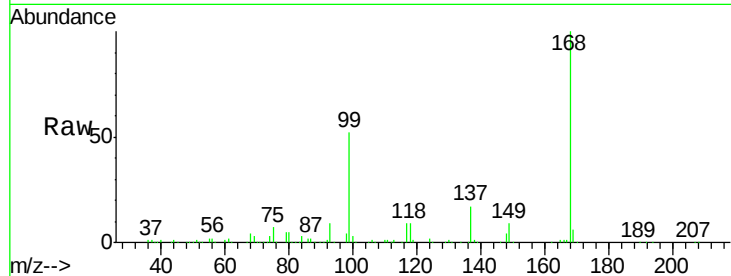




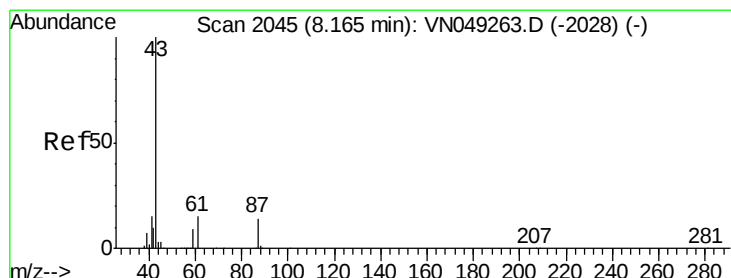
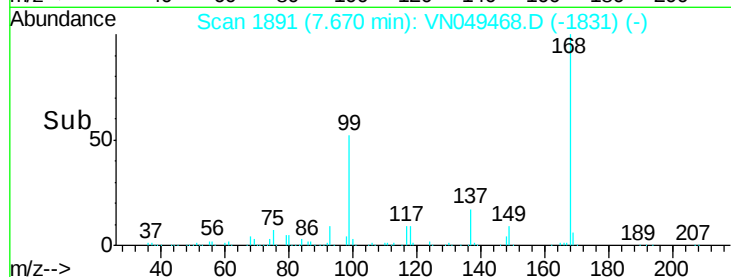
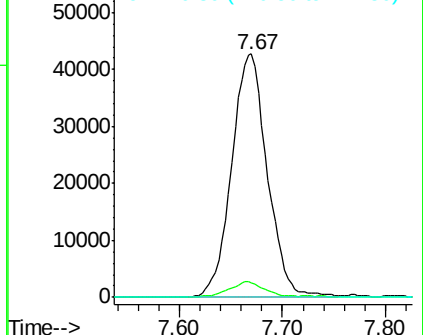
#38
Carbon Tetrachloride
Concen: 4.69 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 102925
Ion Ratio Lower Upper
117 100
119 5.7 75.6 113.4#
121 0.0 24.7 37.1#

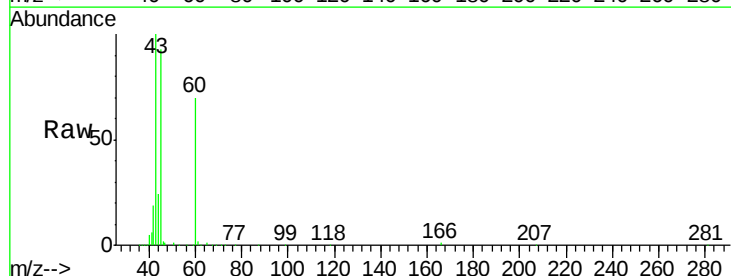


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

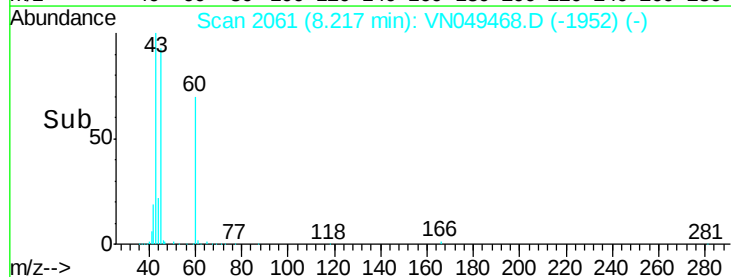
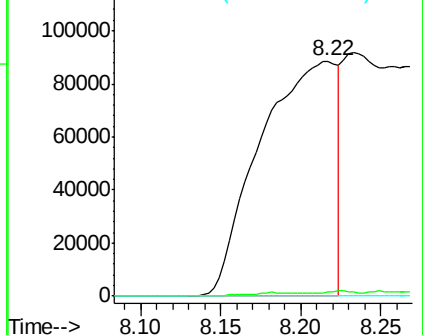


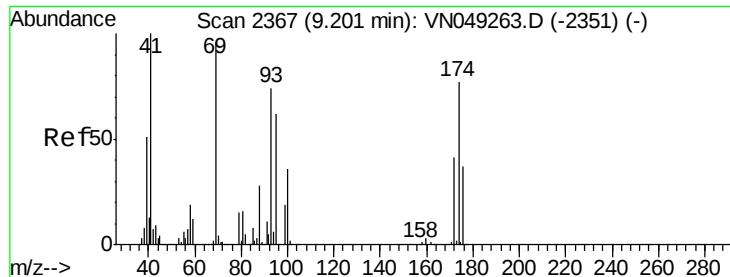
#43
Isopropyl Acetate
Concen: 13.29 ug/l
RT: 8.22 min Scan# 2061
Delta R.T. 0.05 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Tgt Ion: 43 Resp: 292817
Ion Ratio Lower Upper
43 100
61 0.2 14.2 21.4#
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

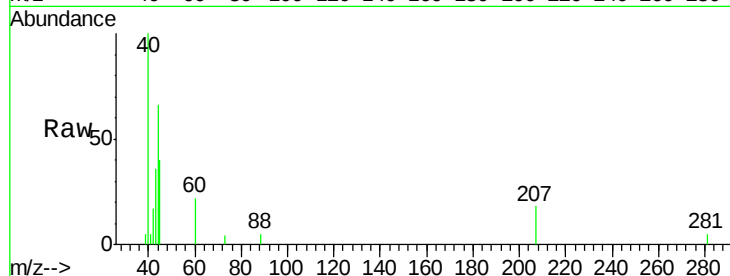




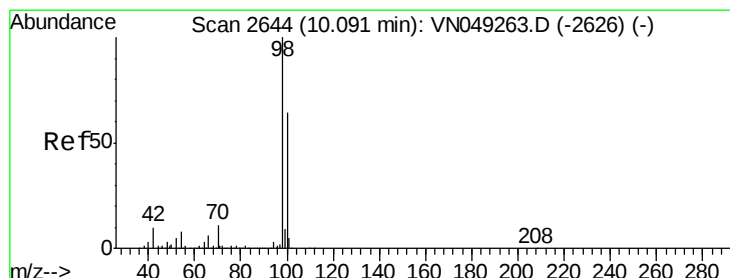
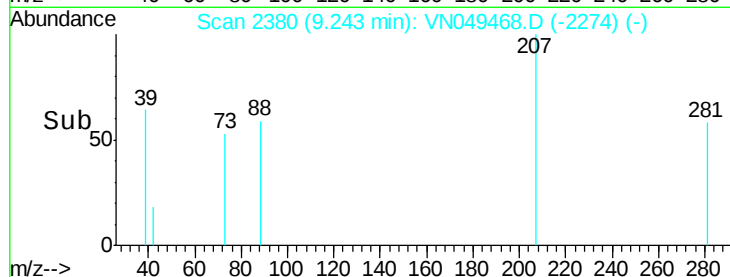
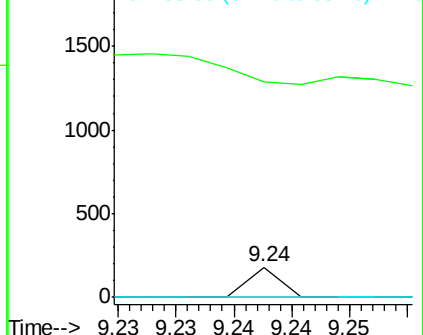
#49
1,4-Dioxane
Concen: 0.24 ug/l
RT: 9.24 min Scan# 2380
Delta R.T. 0.04 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 35
Ion Ratio Lower Upper
88 100
43 722.9 30.9 46.3#
58 0.0 58.9 88.3#

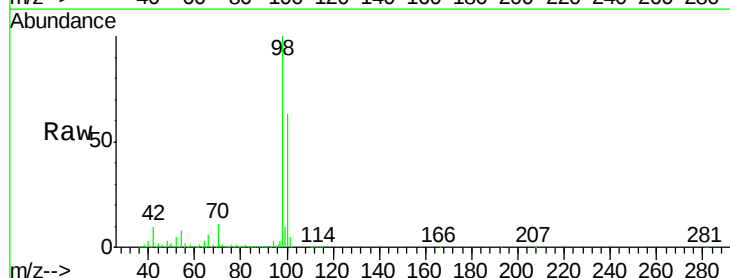


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

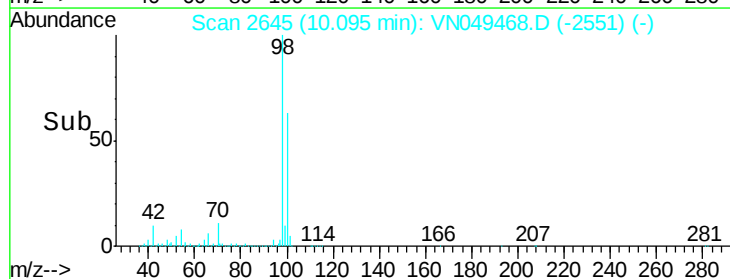
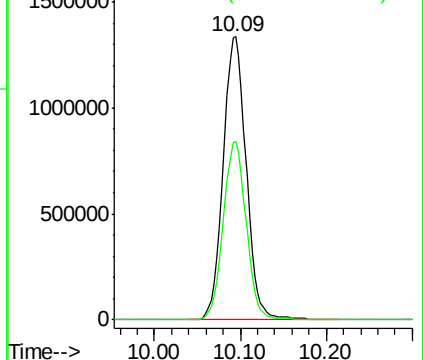


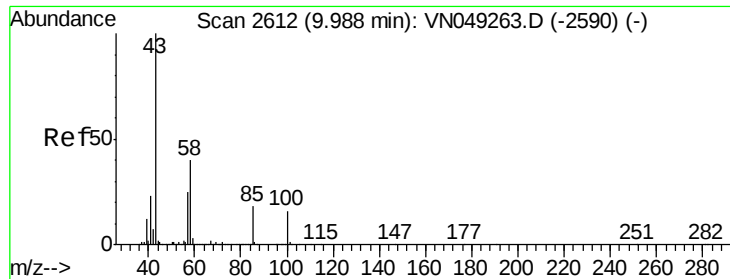
#50
Toluene-d8
Concen: 43.75 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Tgt Ion: 98 Resp: 2494987
Ion Ratio Lower Upper
98 100
100 62.9 49.8 74.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

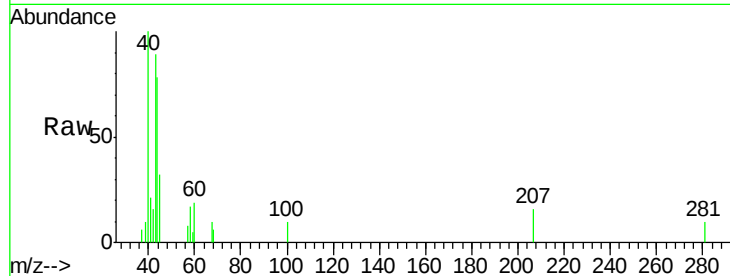
ClientSampleId :

Tot Ion: 43 Resp: 3856

Ion Ratio Lower Upper

43 100

58 21.4 29.0 43.6#

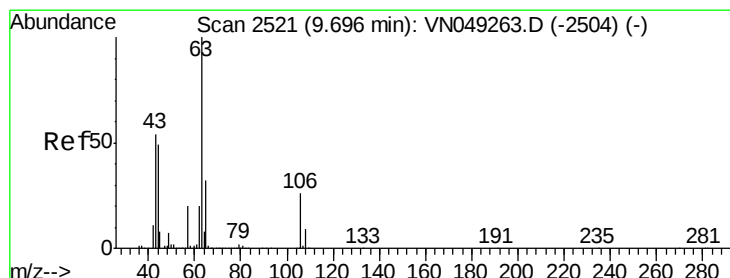
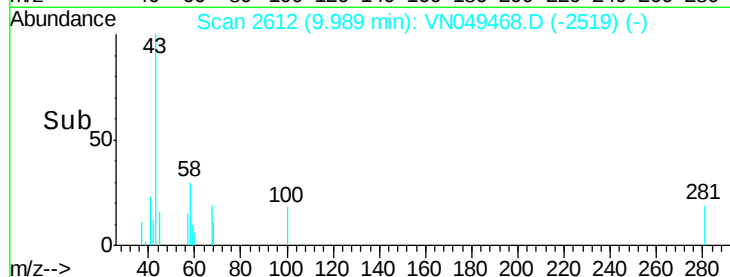


Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

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

9.99

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.54 min Scan# 2471

Delta R.T. -0.16 min

Lab File: VN049468.D

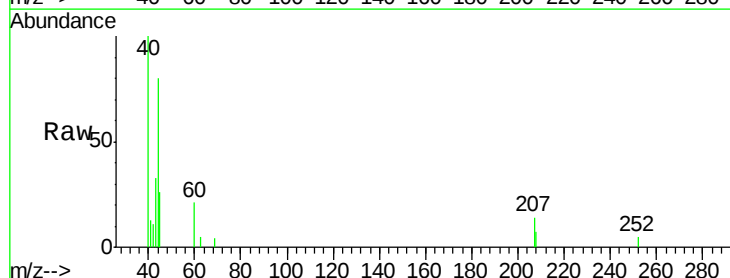
Acq: 21 Jun 2018 15:00

Tgt Ion: 63 Resp: 30

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#

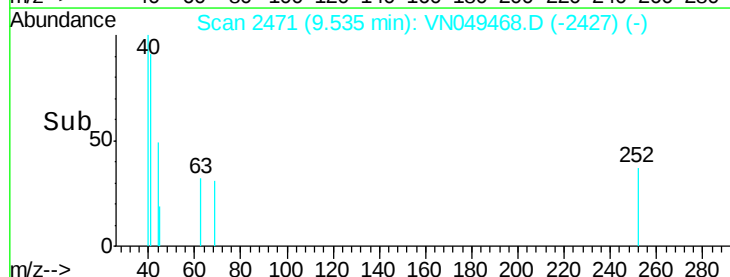


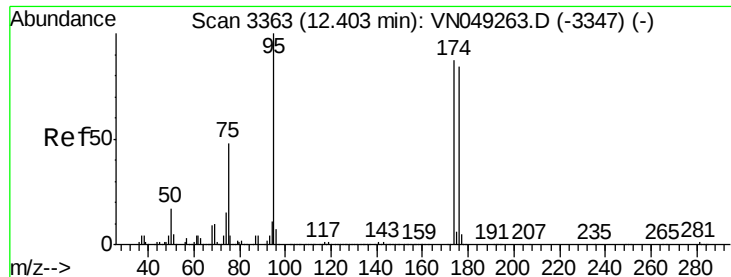
Abundance Ion 62.90 (62.60 to 63.60): VN049263.D (-2504) (-)

Ion 105.90 (105.60 to 106.60): VN049263.D (-2504) (-)

9.54

Time-->

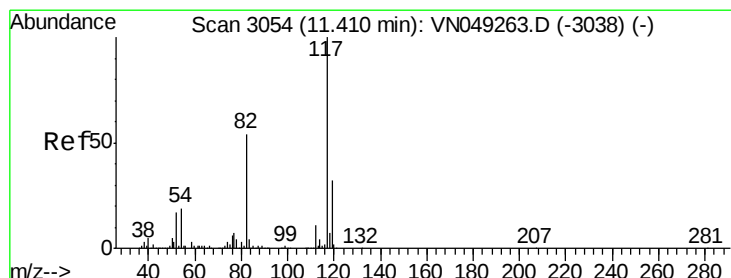
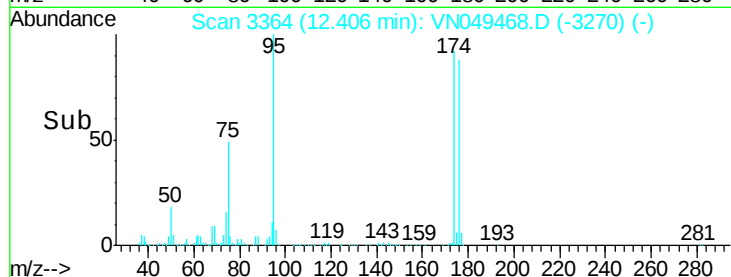
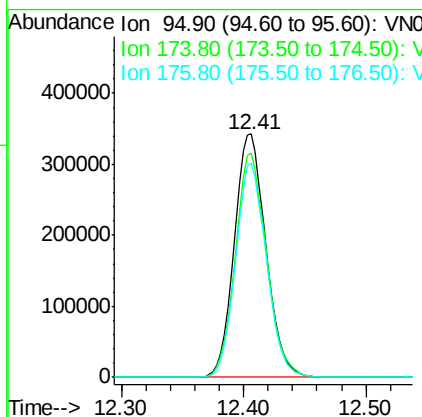
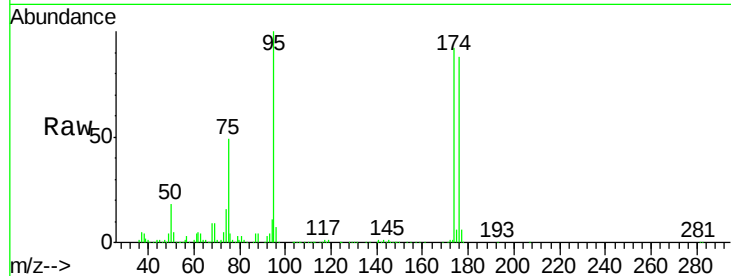




#62
4-Bromofluorobenzene
Concen: 32.53 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

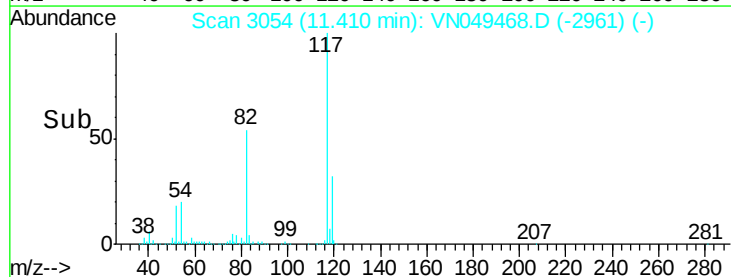
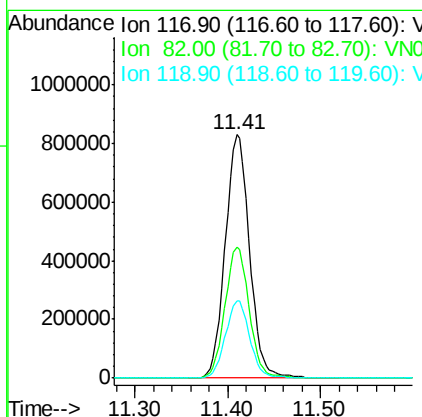
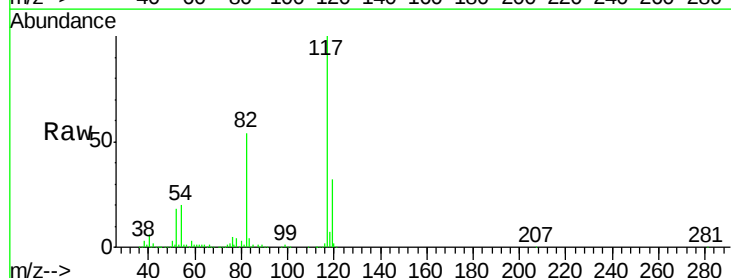
Instrument :
MSVOA_N
ClientSampled :

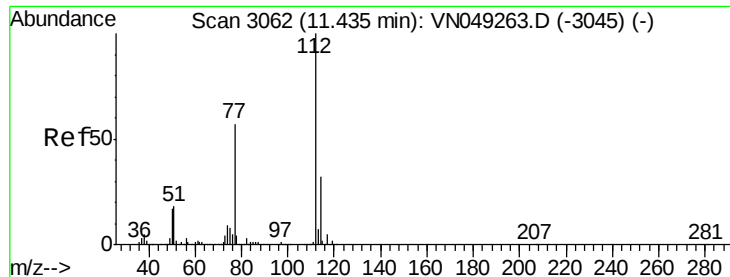
Tot Ion: 95 Resp: 613483
Ion Ratio Lower Upper
95 100
174 91.3 0.0 165.6
176 86.0 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049468.D
Acq: 21 Jun 2018 15:00

Tgt Ion: 117 Resp: 1505679
Ion Ratio Lower Upper
117 100
82 54.0 45.9 68.9
119 31.8 25.5 38.3





#65

Chlorobenzene

Concen: 0.38 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

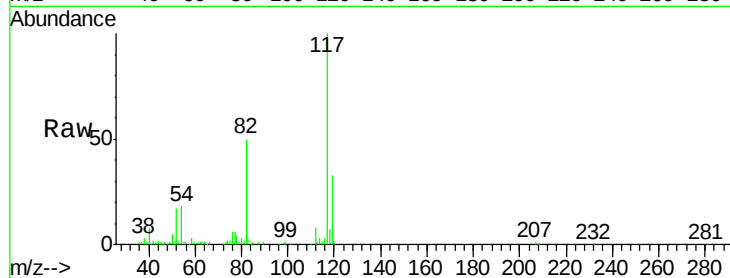
ClientSampleId :

Tot Ion:112 Resp: 14846

Ion Ratio Lower Upper

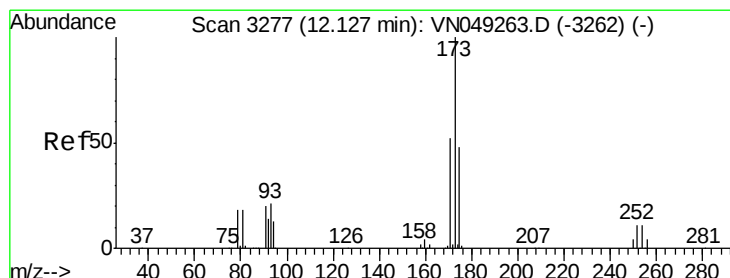
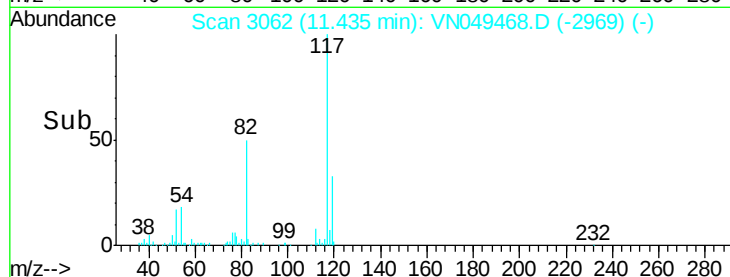
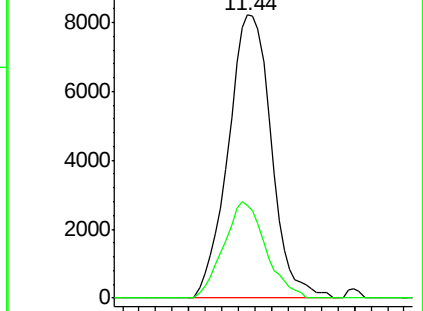
112 100

114 32.7 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 0.47 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

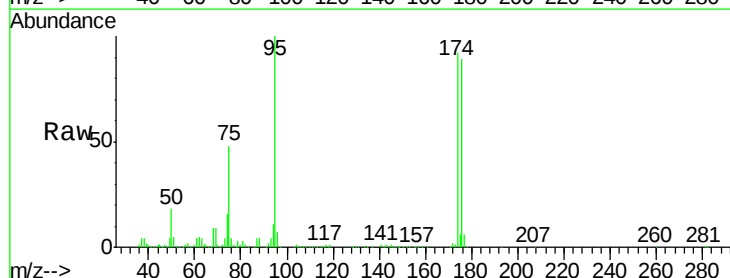
Tgt Ion:173 Resp: 4446

Ion Ratio Lower Upper

173 100

175 696.6 24.5 73.5#

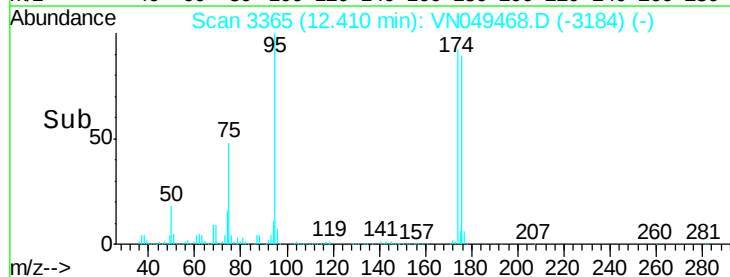
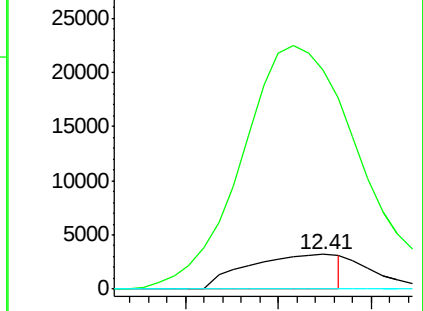
254 0.0 0.1 0.1#

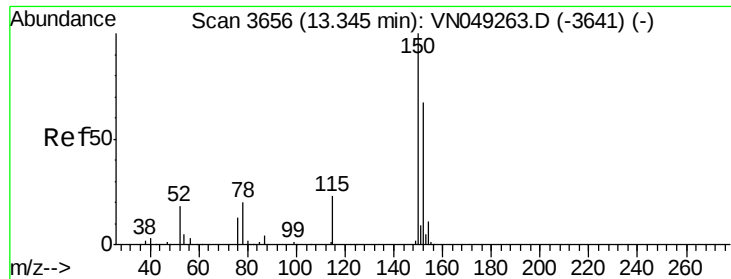


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

ClientSampled :

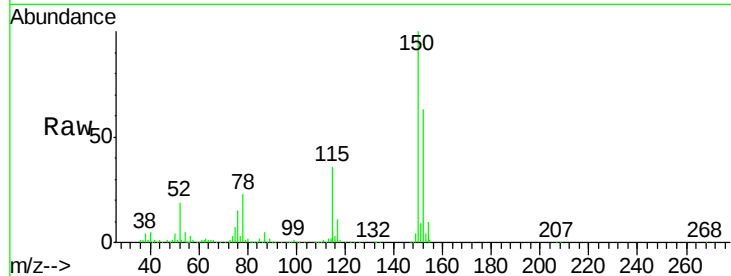
Tot Ion:152 Resp: 408917

Ion Ratio Lower Upper

152 100

115 55.7 28.7 86.1

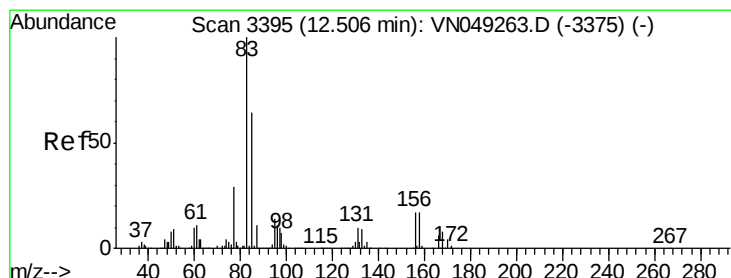
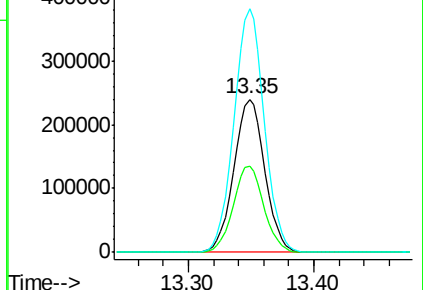
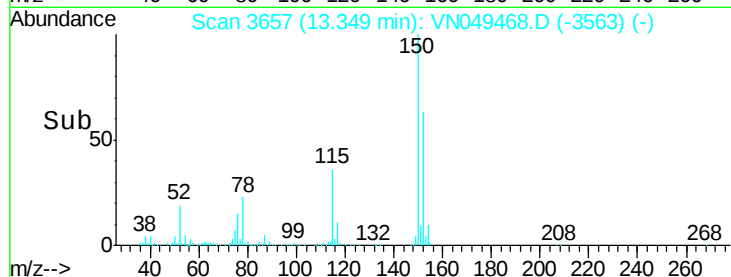
150 155.9 0.0 351.0



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: 12.43 min Scan# 3371

Delta R.T. -0.08 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

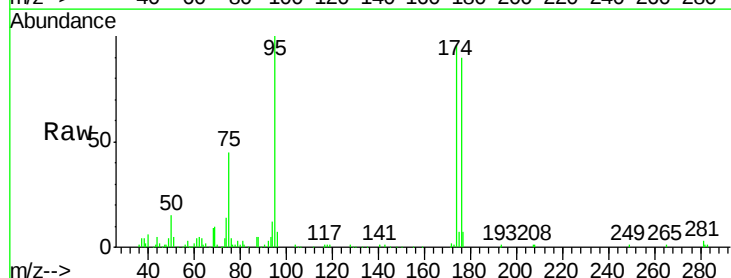
Tgt Ion: 83 Resp: 101

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

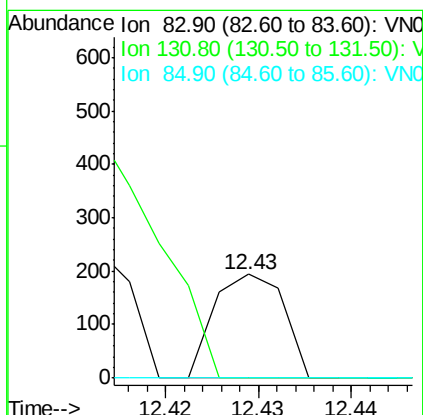
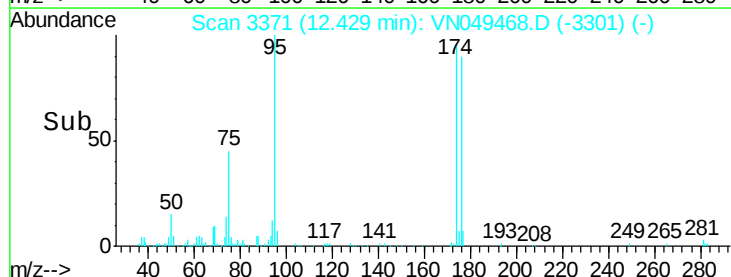
85 0.0 32.0 96.0#

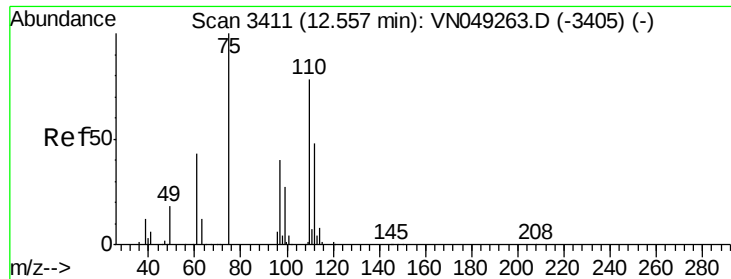


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 42.46 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

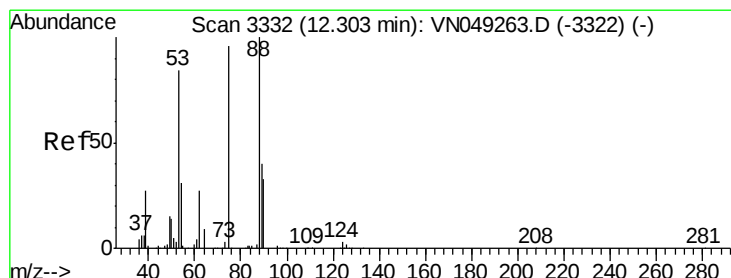
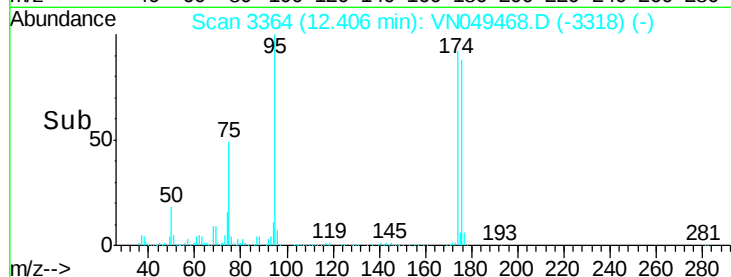
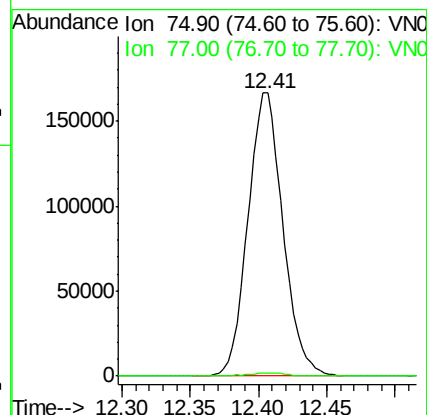
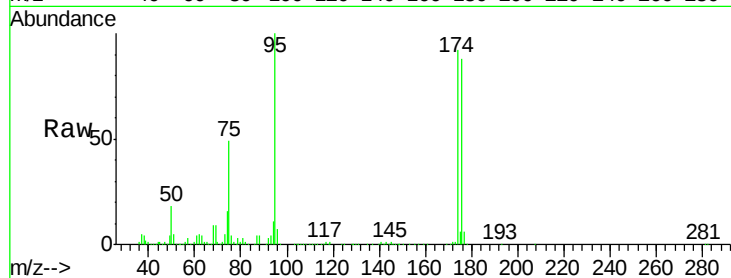
ClientSampleId :

Tot Ion: 75 Resp: 296224

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 134.18 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

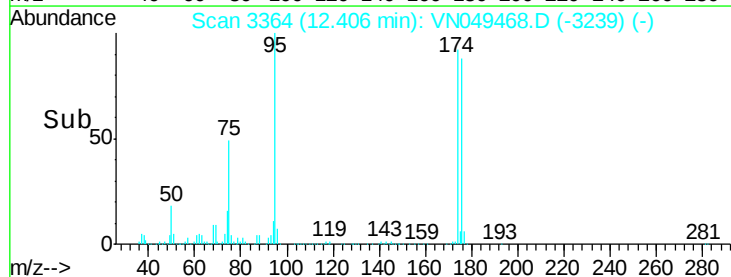
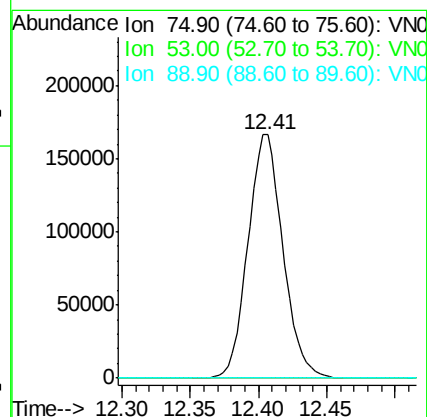
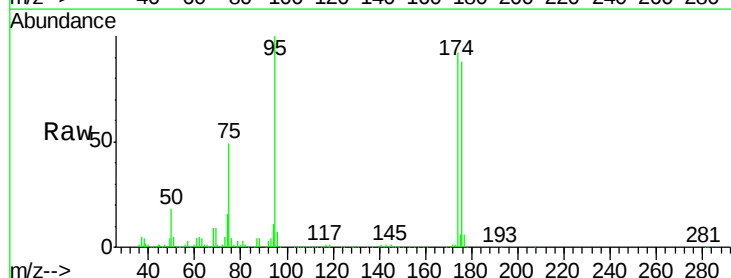
Tgt Ion: 75 Resp: 296224

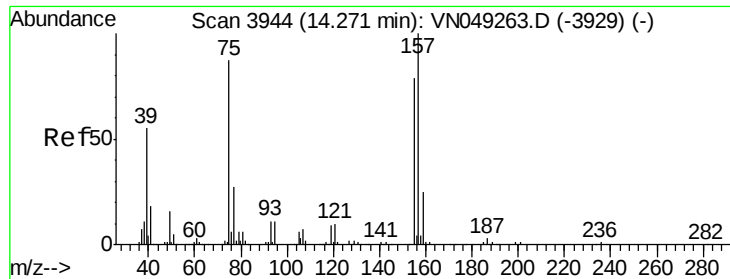
Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.33 ug/l

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

ClientSampleId :

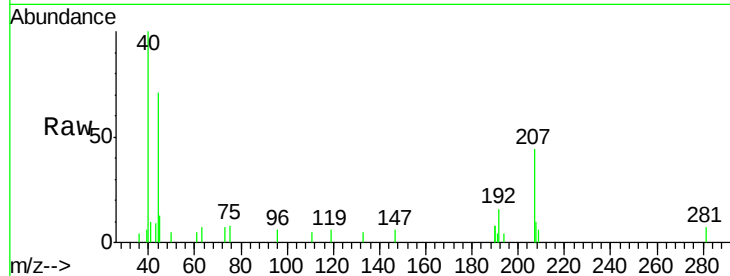
Tot Ion: 75 Resp: 412

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

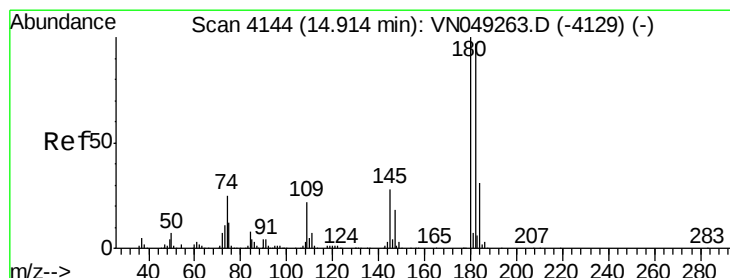
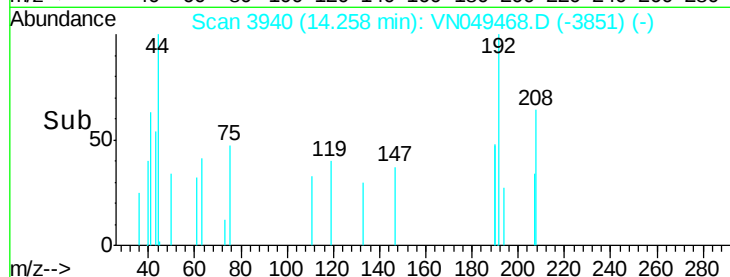
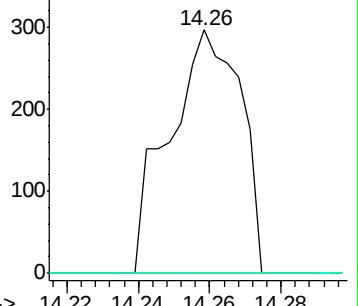
157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): VN049468.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049468.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049468.D (-3851) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.92 min Scan# 4146

Delta R.T. 0.01 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

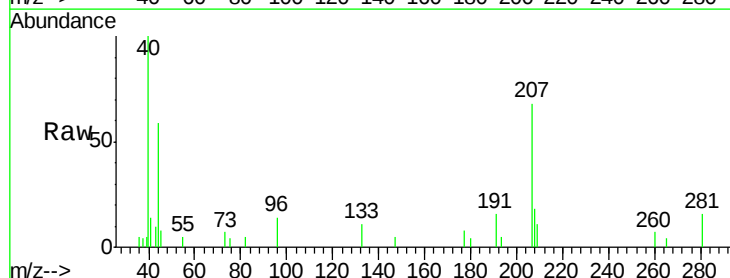
Tgt Ion: 180 Resp: 65

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.8#

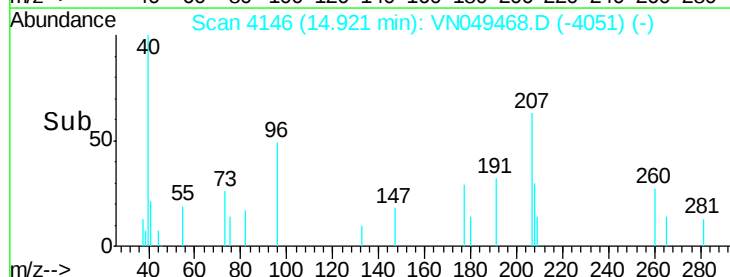
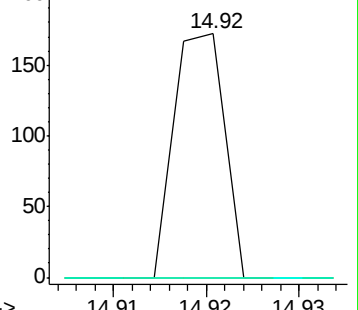
145 0.0 14.7 44.1#

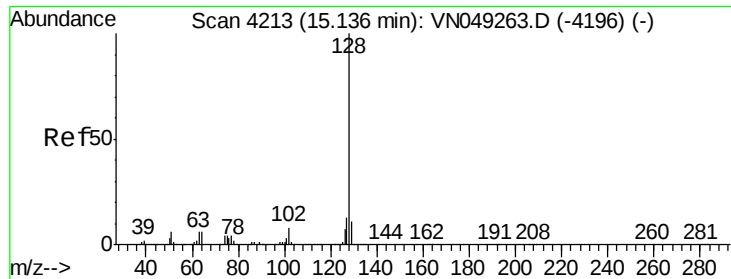


Abundance Ion 179.80 (179.50 to 180.50): VN049468.D (-4051) (-)

Ion 181.80 (181.50 to 182.50): VN049468.D (-4051) (-)

Ion 144.80 (144.50 to 145.50): VN049468.D (-4051) (-)





#95

Naphthalene

Concen: 2.14 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

Instrument :

MSVOA_N

ClientSampled :

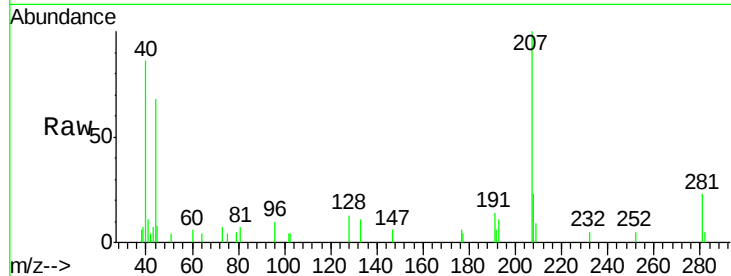
Tot Ion:128 Resp: 677

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.5 12.7#



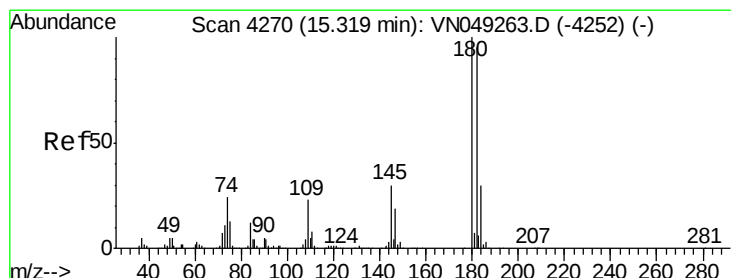
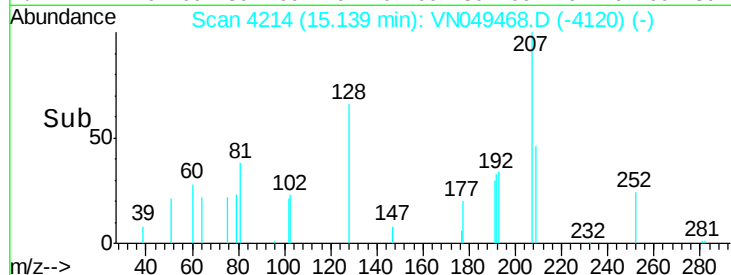
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 3.47 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.00 min

Lab File: VN049468.D

Acq: 21 Jun 2018 15:00

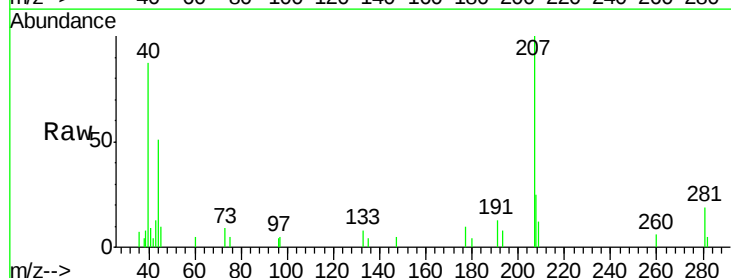
Tgt Ion:180 Resp: 70

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

15.32

Time--> 15.31 15.32 15.33

