

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049384.D
 Acq On : 19 Jun 2018 14:33
 Operator : MD\SY
 Sample : VN0619WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:29:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1601761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2467908	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2085762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	679119	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	1042933	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
35) Dibromofluoromethane	7.59	113	928640	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
50) Toluene-d8	10.09	98	3441652	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
62) 4-Bromofluorobenzene	12.40	95	940118	37.40	ug/l	0.00
Spiked Amount			Recovery	=	74.80%	

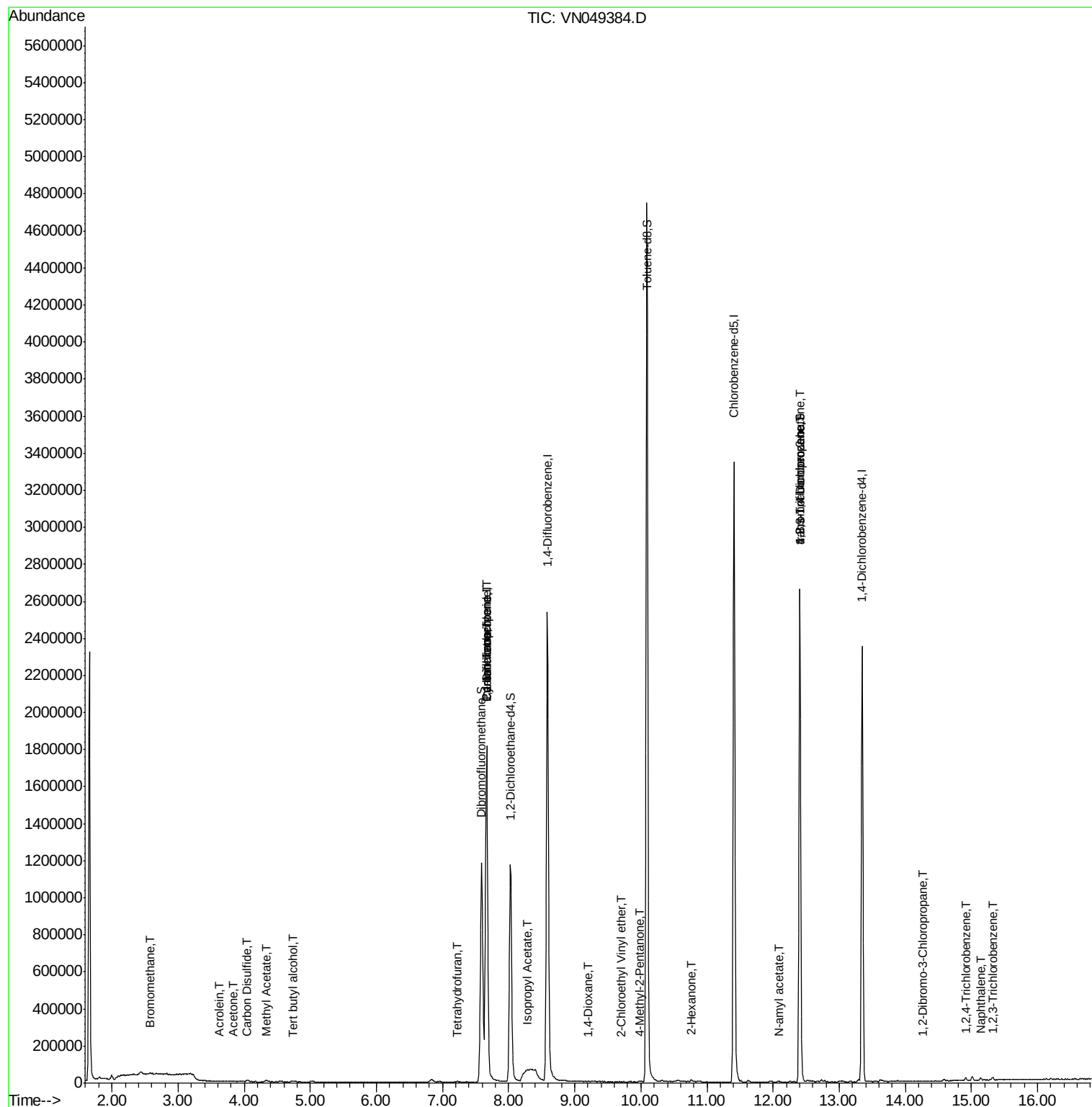
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	5182	0.39	ug/l #	76
11) Tert butyl alcohol	4.73	59	880	0.71	ug/l #	70
13) Acrolein	3.61	56	1500	1.15	ug/l #	52
16) Acetone	3.83	43	5839	1.13	ug/l	94
17) Carbon Disulfide	4.05	76	15681	0.27	ug/l #	92
18) Methyl Acetate	4.33	43	16659	1.06	ug/l	99
29) Tetrahydrofuran	7.22	42	1203	0.27	ug/l #	68
31) Cyclohexane	7.66	56	28879	0.75	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	108125	3.82	ug/l #	51
38) Carbon Tetrachloride	7.66	117	143018	4.88	ug/l #	17
43) Isopropyl Acetate	8.27	43	89262	3.04	ug/l #	64
49) 1,4-Dioxane	9.19	88	560	2.93	ug/l #	52
51) 4-Methyl-2-Pentanone	9.99	43	4647	0.30	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.71	63	146	14.34	ug/l #	51
59) 2-Hexanone	10.76	43	6252	0.63	ug/l	79
74) N-amyl acetate	12.08	43	3478	0.24	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.50	83	1366	Below Cal	#	57
76) 1,2,3-Trichloropropane	12.40	75	449927	38.83	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	449927	122.72	ug/l #	9
90) Hexachloroethane	13.89	117	33	Below Cal		74
92) 1,2-Dibromo-3-Chloropropan	14.27	75	777	0.37	ug/l #	50
93) 1,2,4-Trichlorobenzene	14.92	180	4106	5.06	ug/l	98
94) Hexachlorobutadiene	15.01	225	3875	Below Cal		97
95) Naphthalene	15.14	128	9294	2.57	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	4451	3.82	ug/l	85

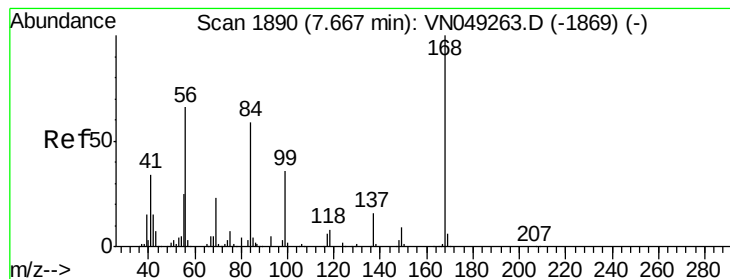
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 20 04:29:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

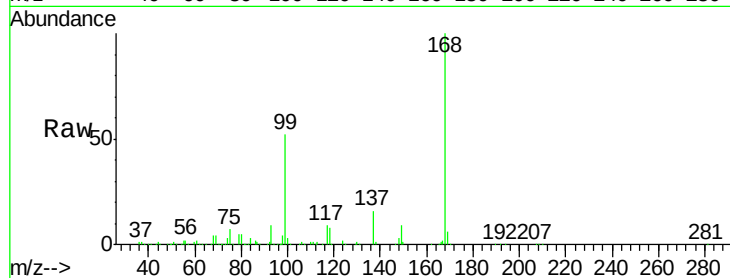
ClientSampleId :

Tot Ion:168 Resp: 1601761

Ion Ratio Lower Upper

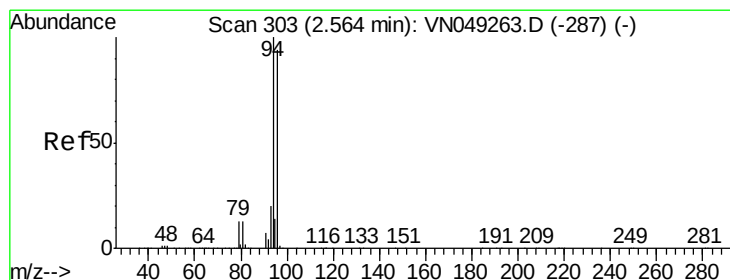
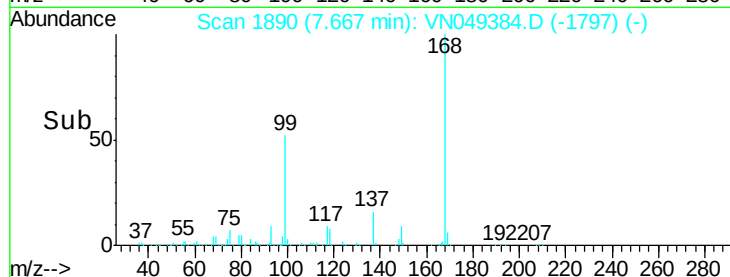
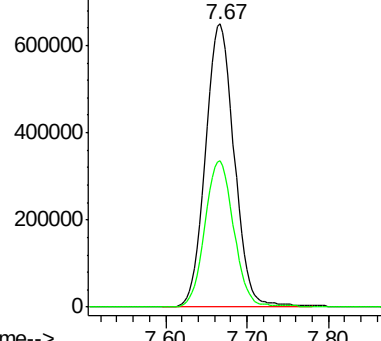
168 100

99 51.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.39 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049384.D

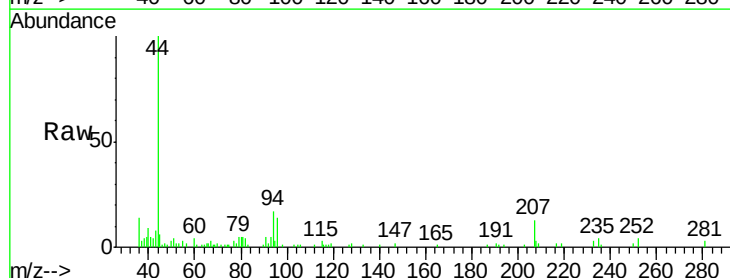
Acq: 19 Jun 2018 14:33

Tgt Ion: 94 Resp: 5182

Ion Ratio Lower Upper

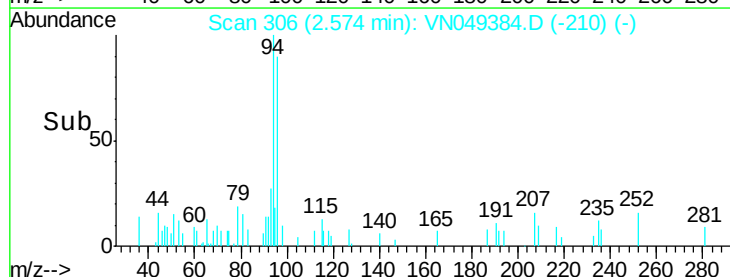
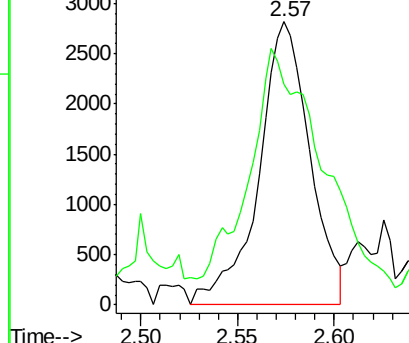
94 100

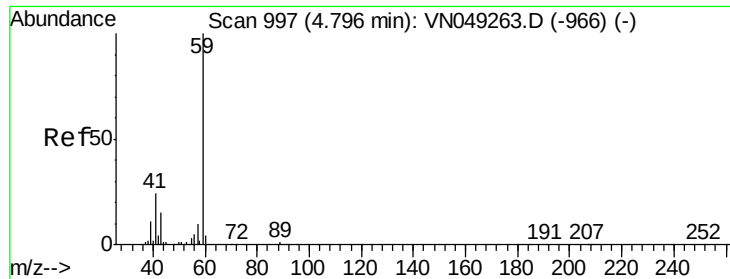
96 68.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



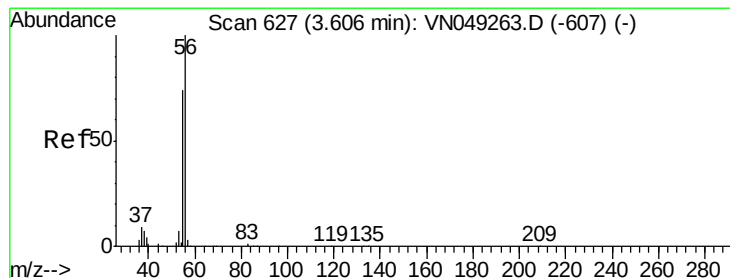
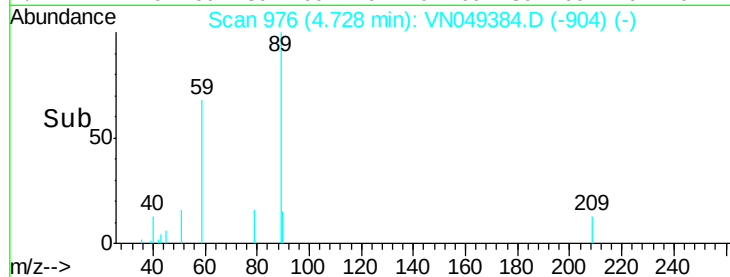
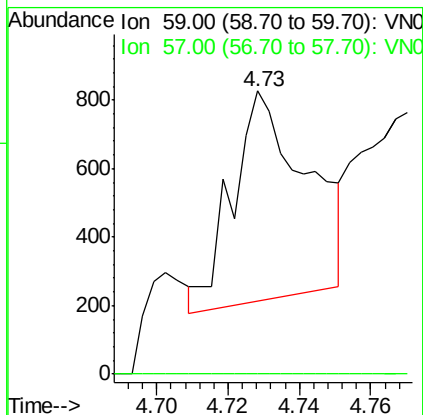
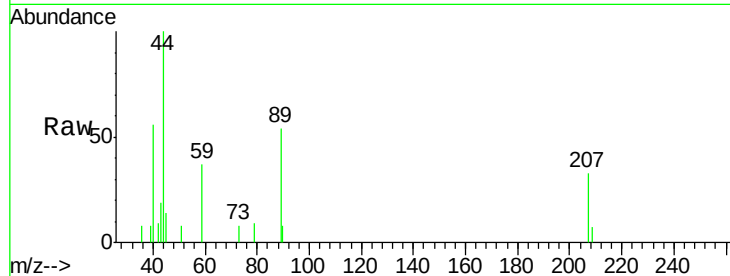


#11

Tert butyl alcohol
 Concen: 0.71 ug/l
 RT: 4.73 min Scan# 976
 Delta R.T. -0.07 min
 Lab File: VN049384.D
 Acq: 19 Jun 2018 14:33

Instrument :
 MSVOA_N
 ClientSampled :

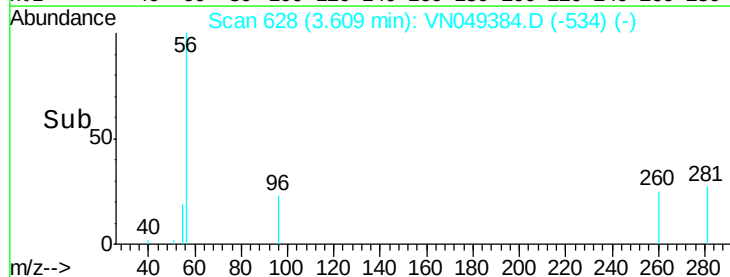
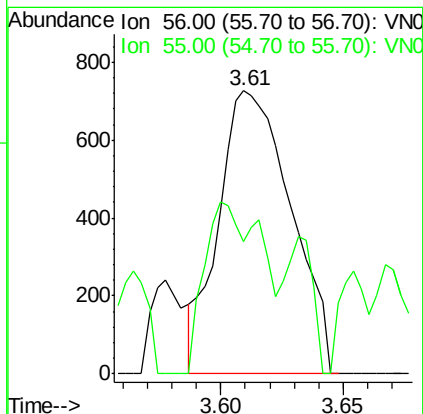
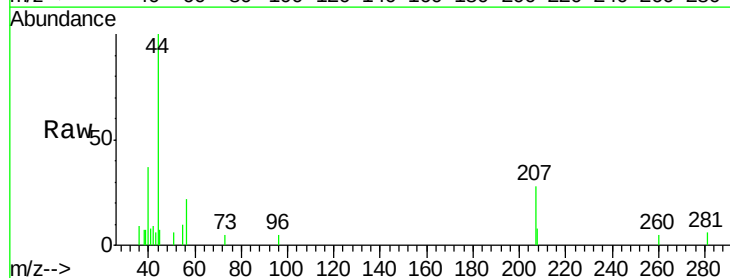
Tot Ion: 59 Resp: 880
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

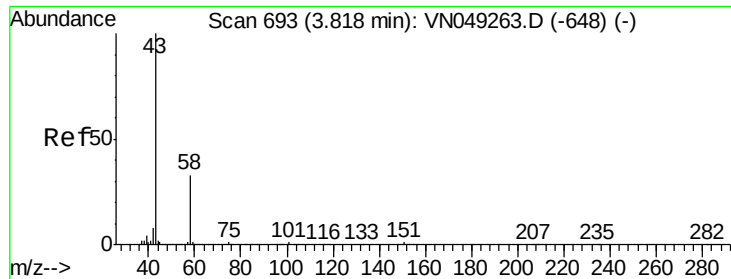


#13

Acrolein
 Concen: 1.15 ug/l
 RT: 3.61 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: VN049384.D
 Acq: 19 Jun 2018 14:33

Tgt Ion: 56 Resp: 1500
 Ion Ratio Lower Upper
 56 100
 55 31.5 57.1 85.7#





#16

Acetone

Concen: 1.13 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.02 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

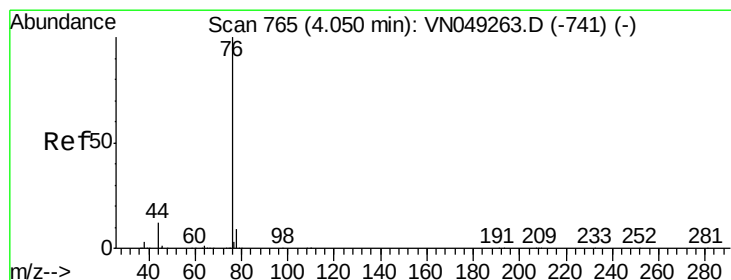
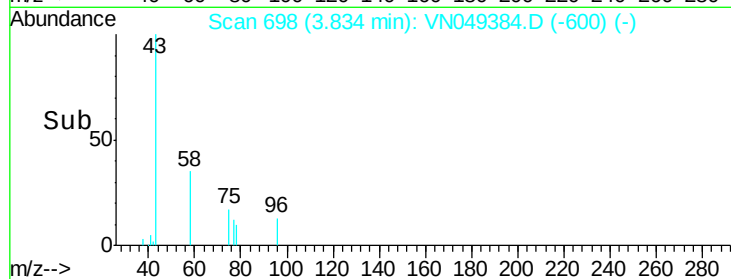
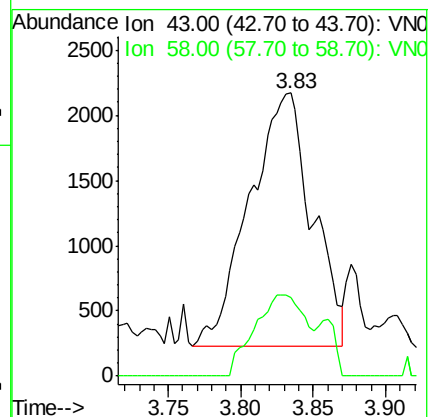
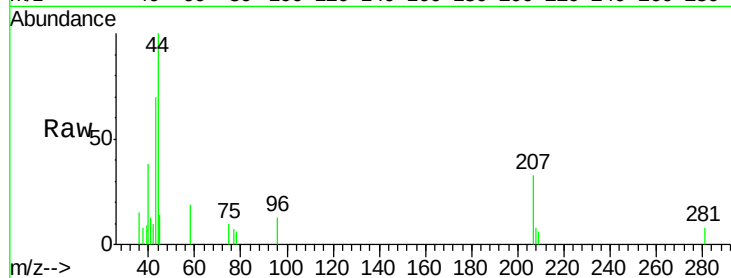
ClientSampleId :

Tot Ion: 43 Resp: 5839

Ion Ratio Lower Upper

43 100

58 30.9 22.4 33.6



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN049384.D

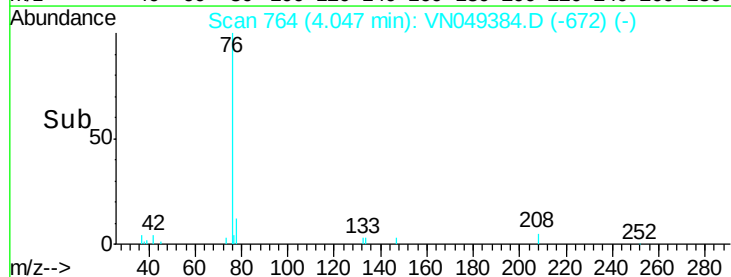
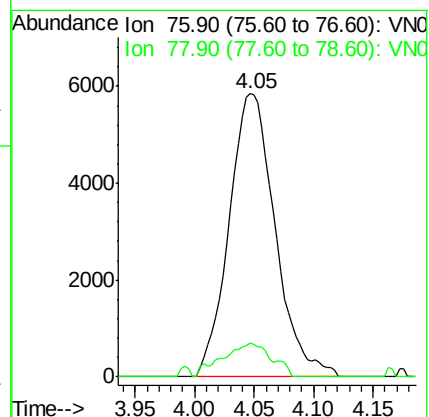
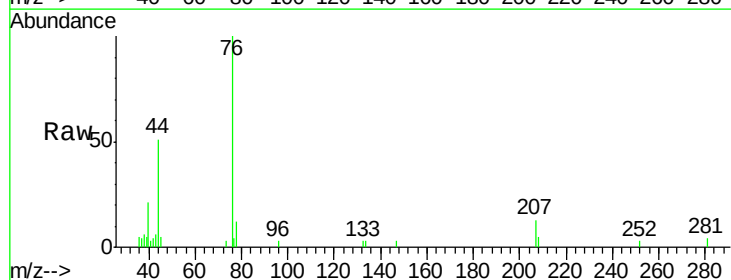
Acq: 19 Jun 2018 14:33

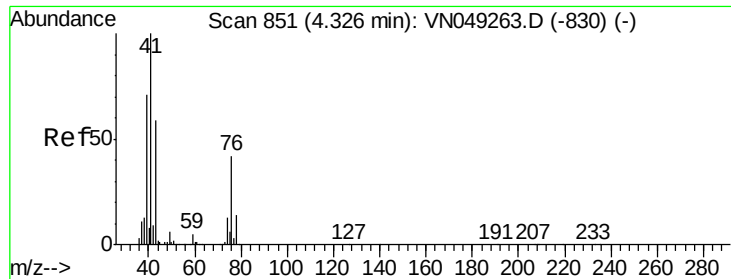
Tgt Ion: 76 Resp: 15681

Ion Ratio Lower Upper

76 100

78 12.1 7.4 11.0#

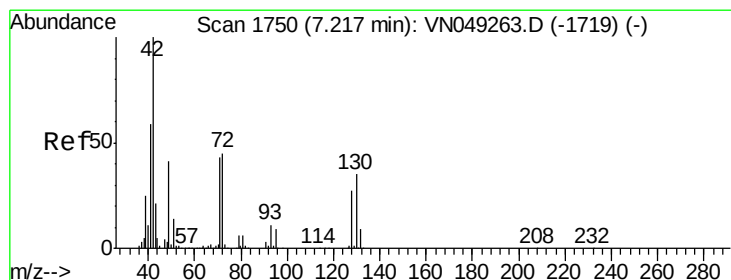
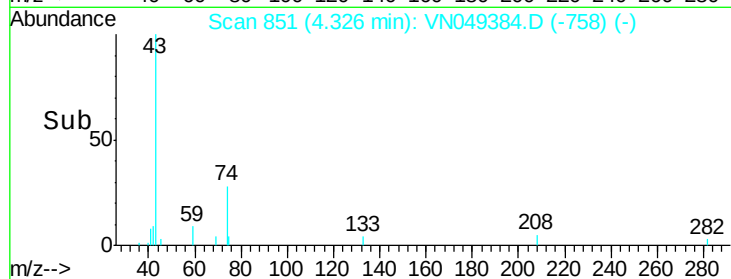
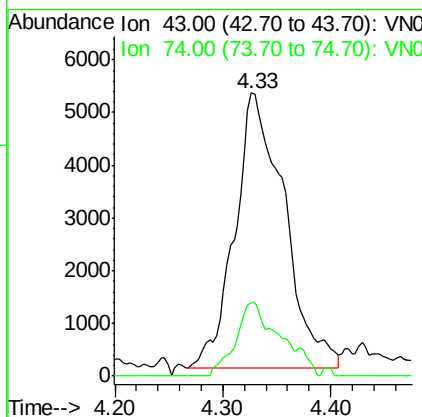
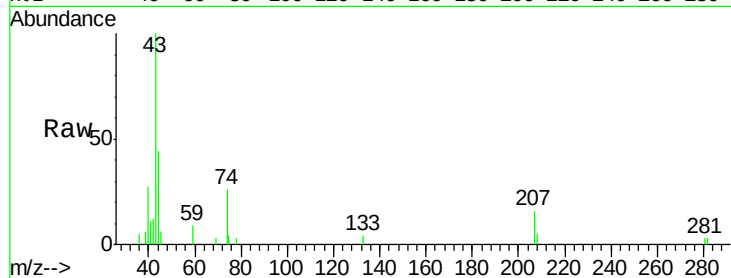




#18
Methvl Acetate
Concen: 1.06 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

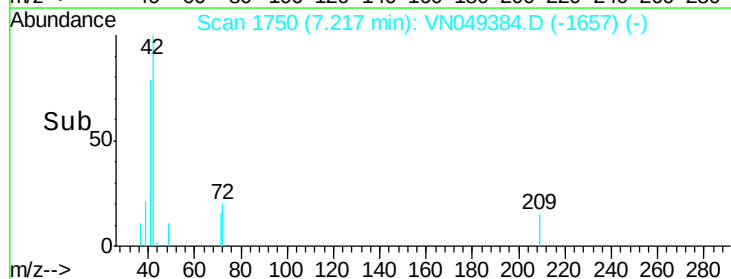
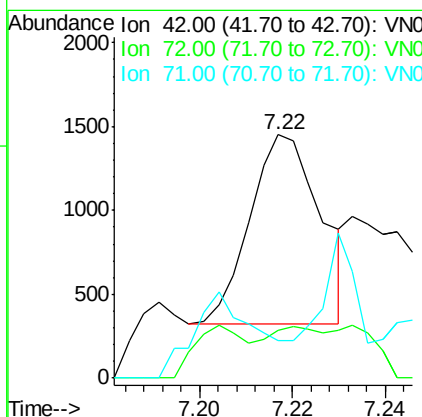
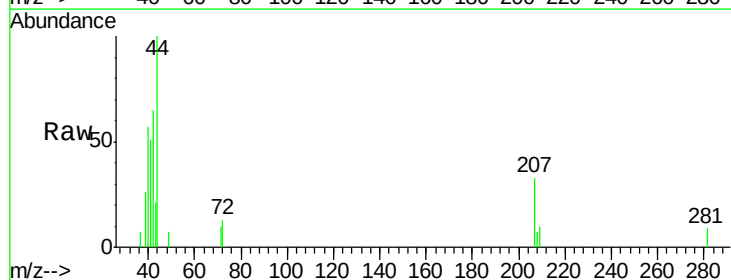
Instrument :
MSVOA_N
ClientSampled :

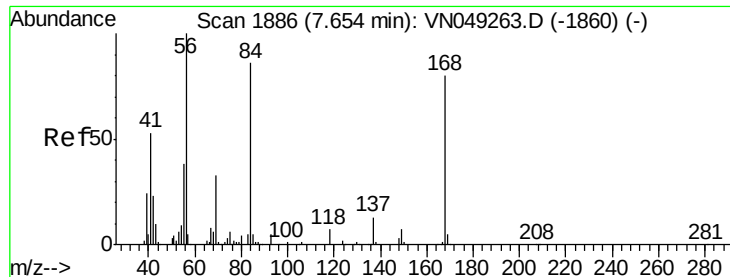
Tot Ion: 43 Resp: 16659
Ion Ratio Lower Upper
43 100
74 22.1 17.4 26.0



#29
Tetrahydrofuran
Concen: 0.27 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

Tgt Ion: 42 Resp: 1203
Ion Ratio Lower Upper
42 100
72 5.7 32.2 48.4#
71 42.6 30.5 45.7

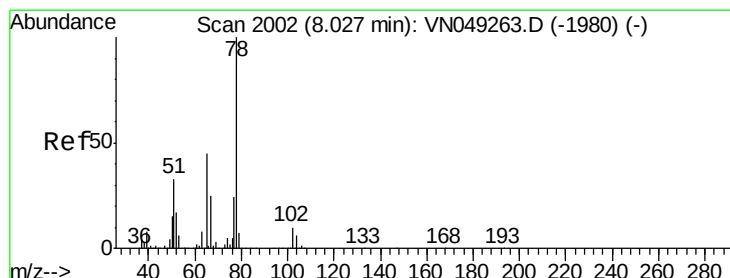
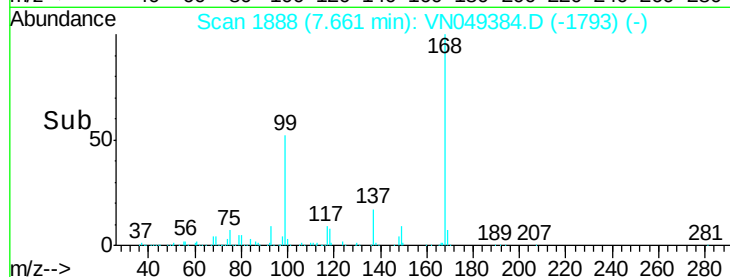
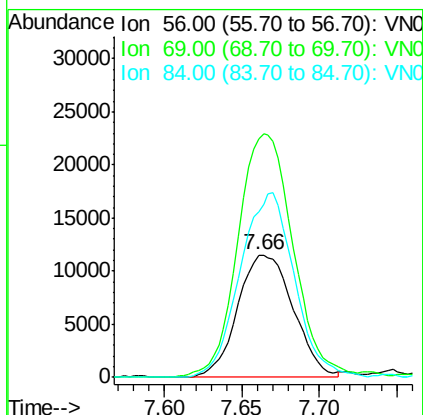
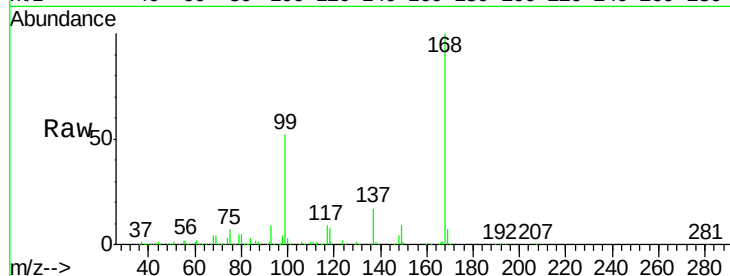




#31
Cyclohexane
Concen: 0.75 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

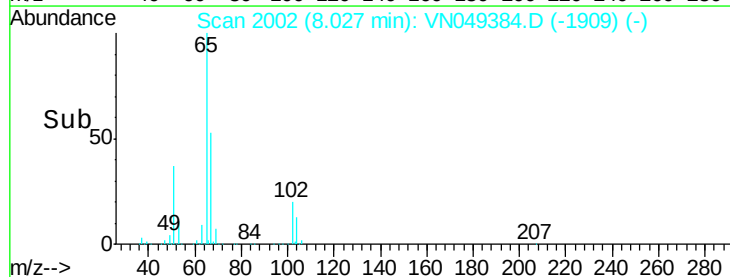
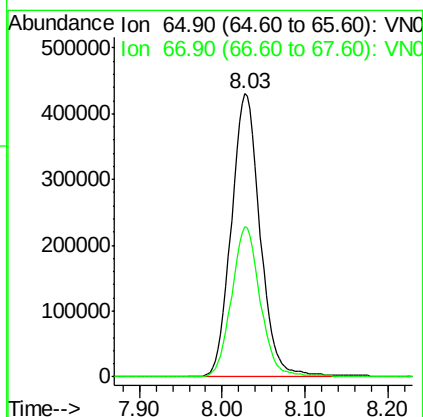
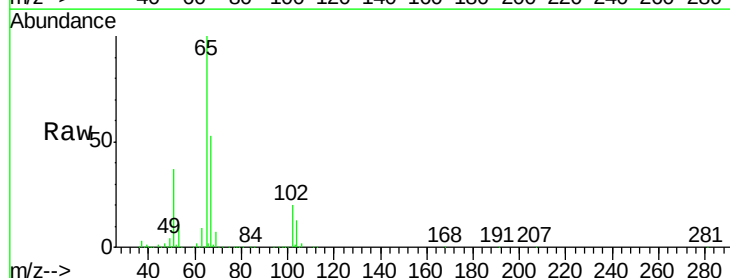
Instrument :
MSVOA_N
ClientSampled :

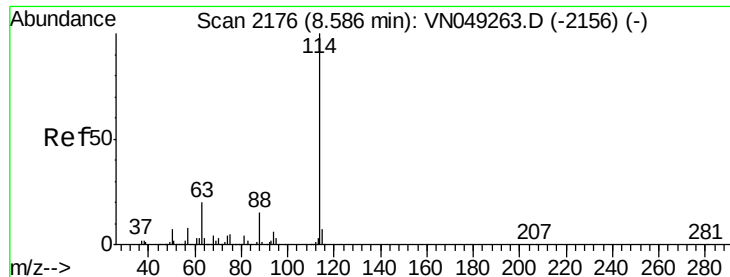
Tot Ion: 56 Resp: 28879
Ion Ratio Lower Upper
56 100
69 192.2 25.0 37.4#
84 135.1 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 49.09 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

Tgt Ion: 65 Resp: 1042933
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

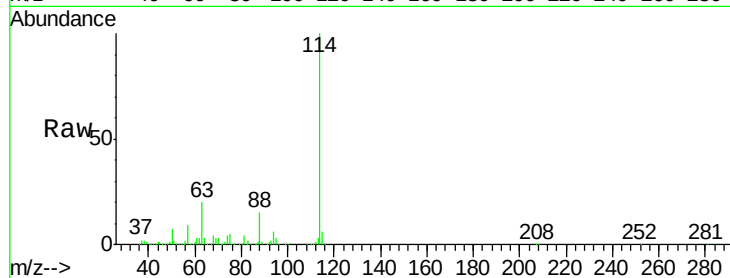
Tot Ion:114 Resp: 2467908

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

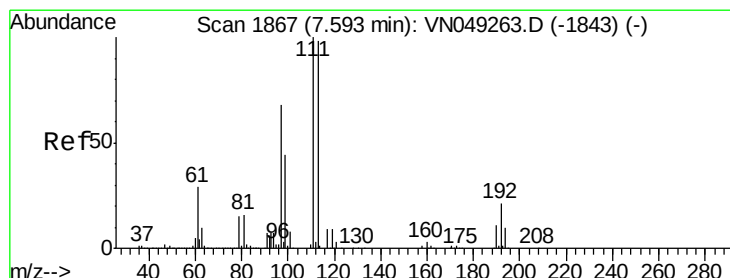
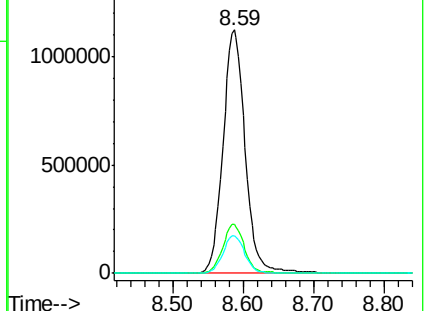
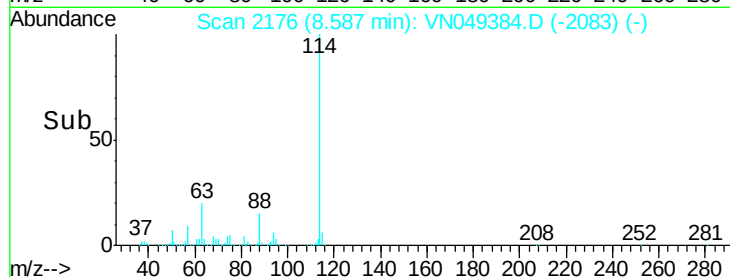
88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.51 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

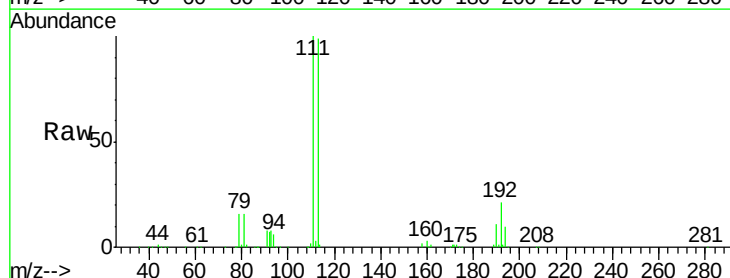
Tgt Ion:113 Resp: 928640

Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

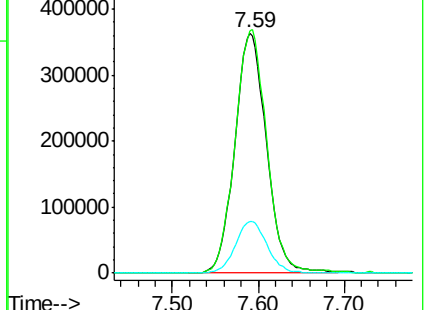
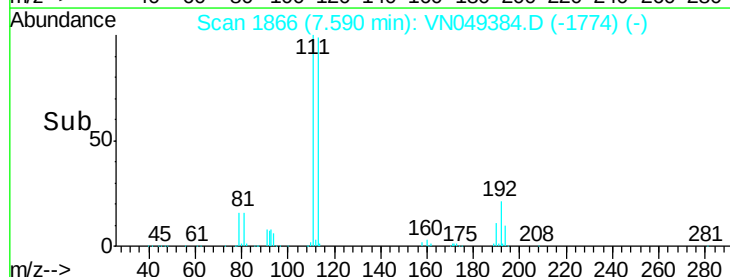
192 21.6 15.0 22.6

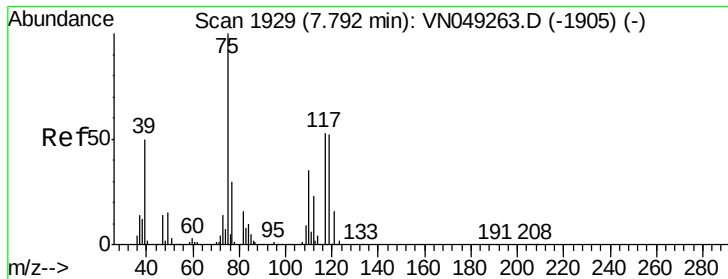


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

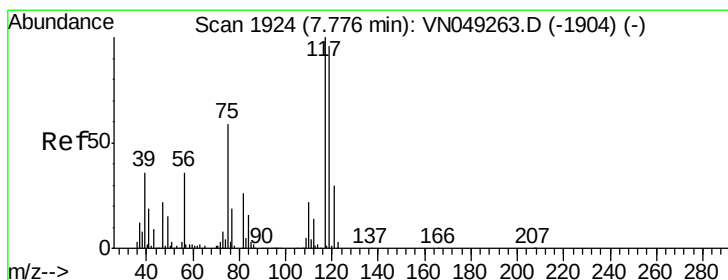
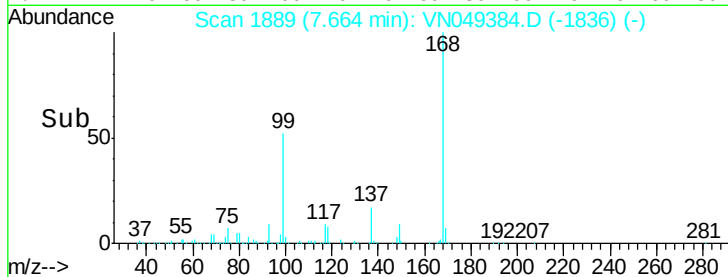
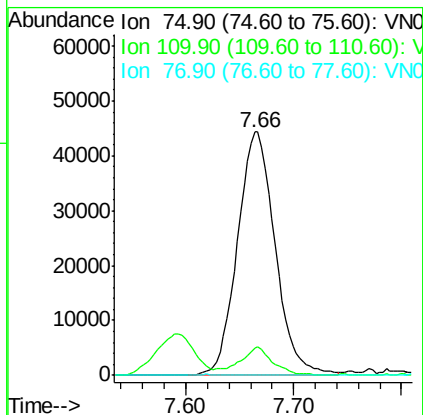
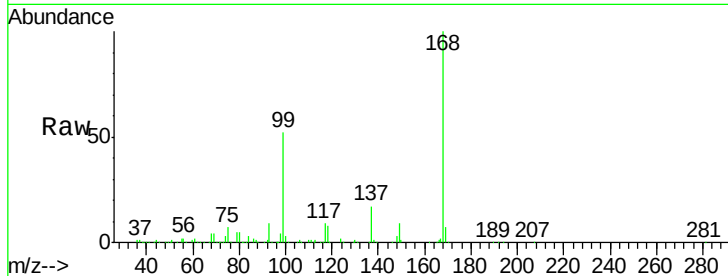




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049384.D
 Acq: 19 Jun 2018 14:33

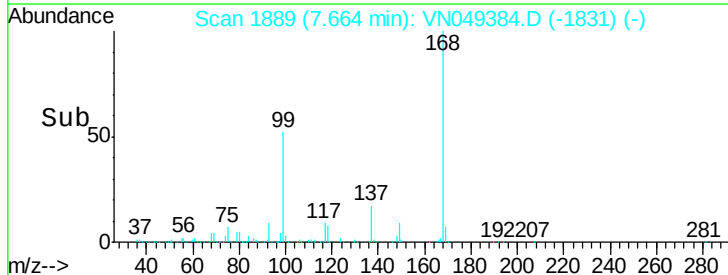
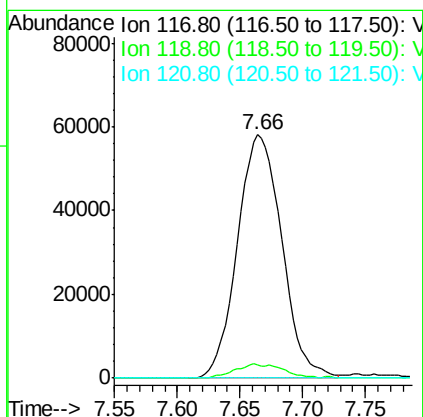
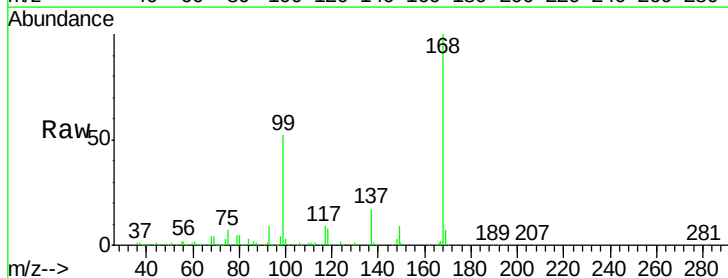
Instrument :
 MSVOA_N
 ClientSampleId :

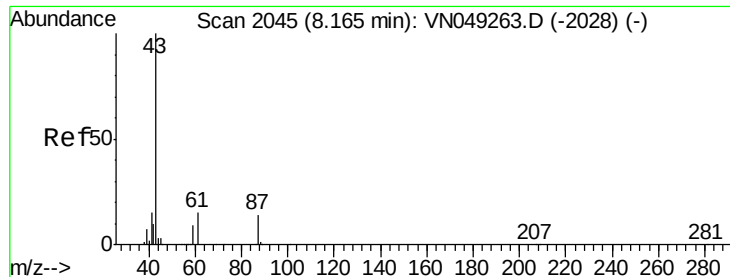
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.0	50.9#
77	0.1	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.88 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN049384.D
 Acq: 19 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.6	113.4#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 3.04 ug/l

RT: 8.27 min Scan# 2077

Delta R.T. 0.10 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

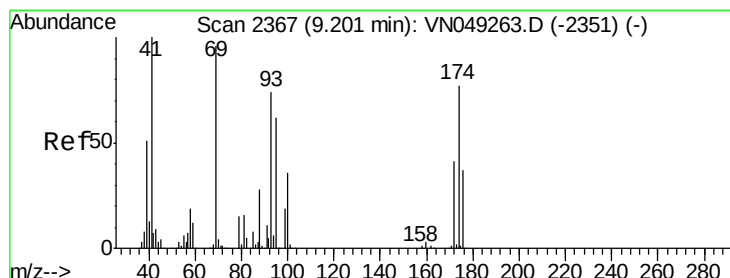
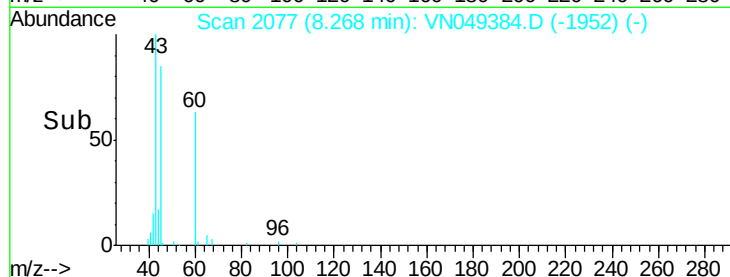
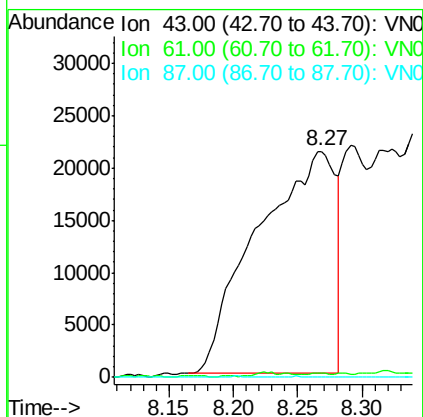
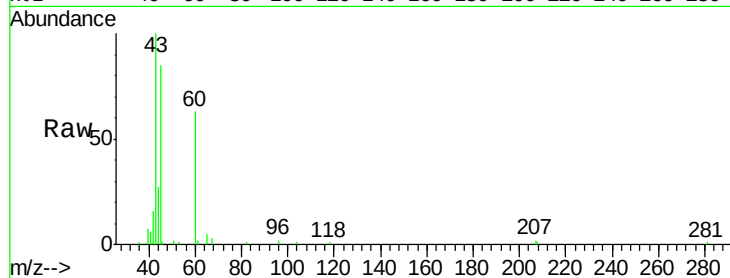
Tot Ion: 43 Resp: 89262

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 2.93 ug/l

RT: 9.19 min Scan# 2365

Delta R.T. -0.01 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

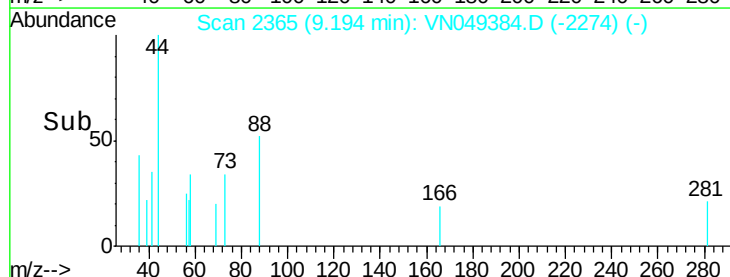
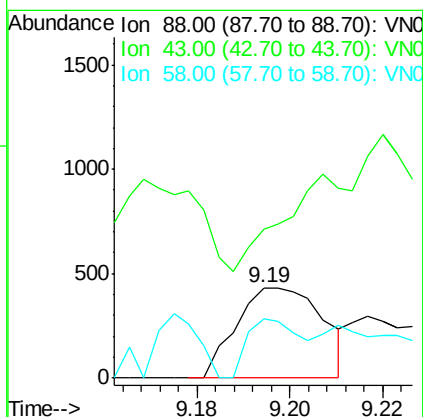
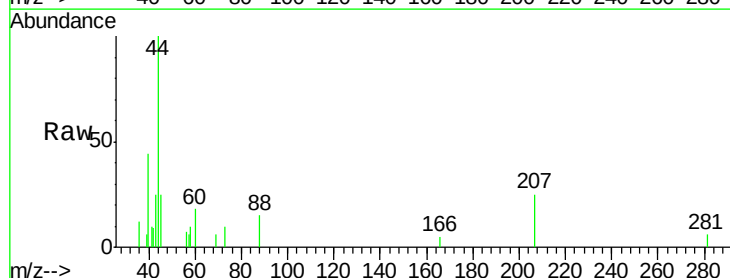
Tgt Ion: 88 Resp: 560

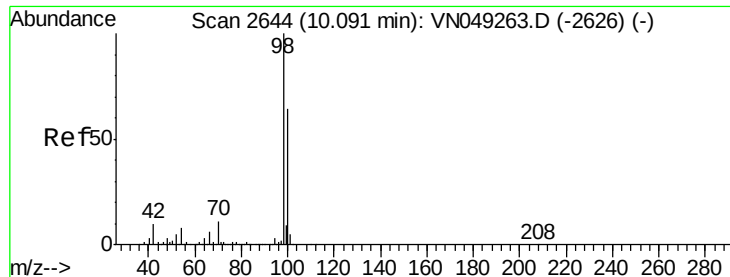
Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

58 40.4 58.9 88.3#

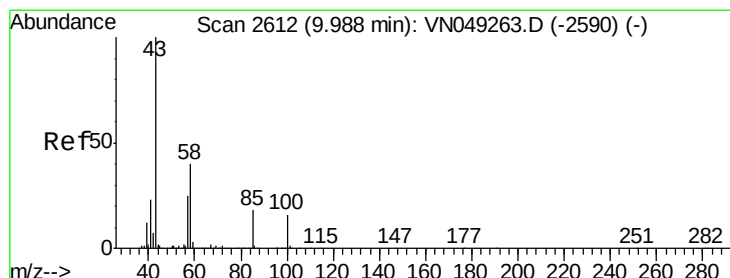
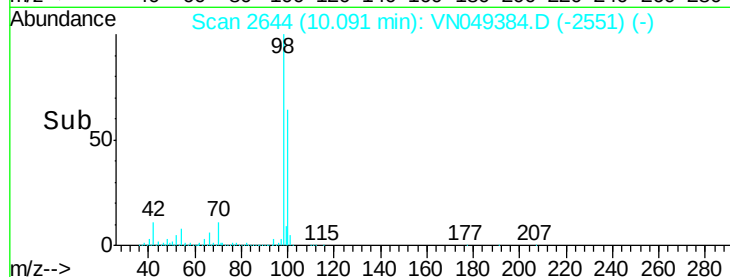
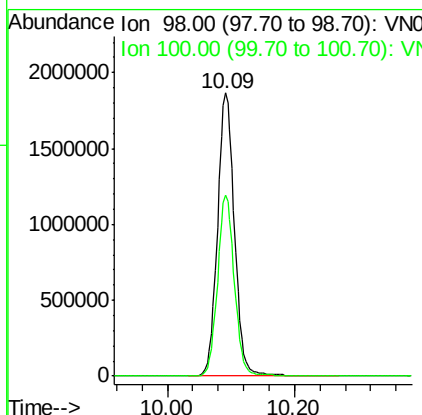
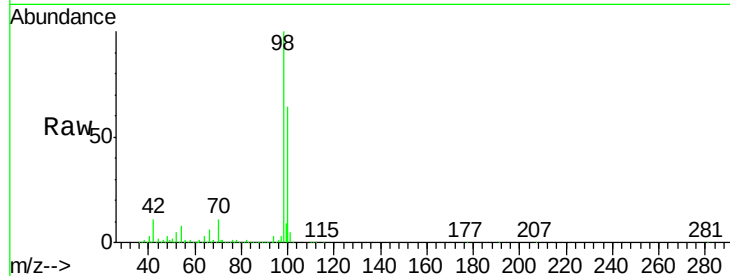




#50
Toluene-d8
Concen: 45.27 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

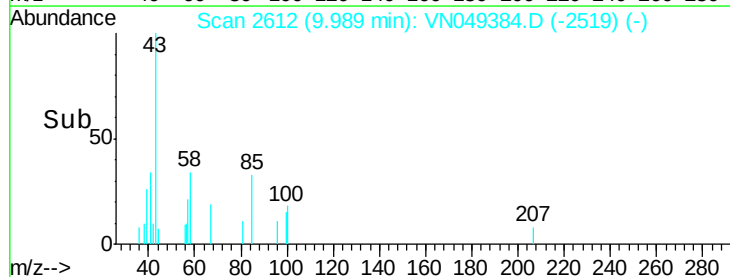
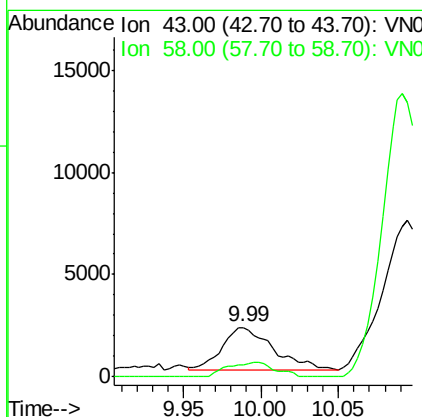
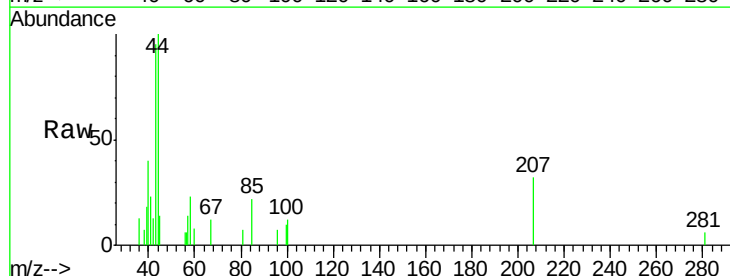
Instrument :
MSVOA_N
ClientSampled :

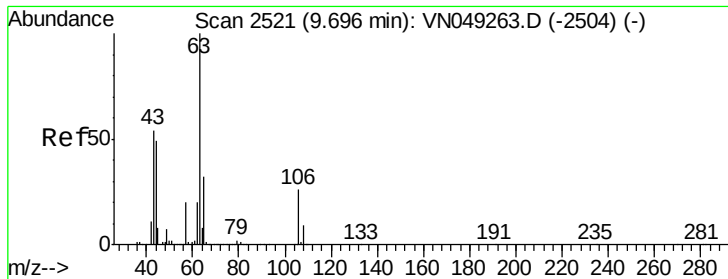
Tot Ion: 98 Resp: 3441652
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

Tgt Ion: 43 Resp: 4647
Ion Ratio Lower Upper
43 100
58 32.2 29.0 43.6





#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.71 min Scan# 2525

Delta R.T. 0.01 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

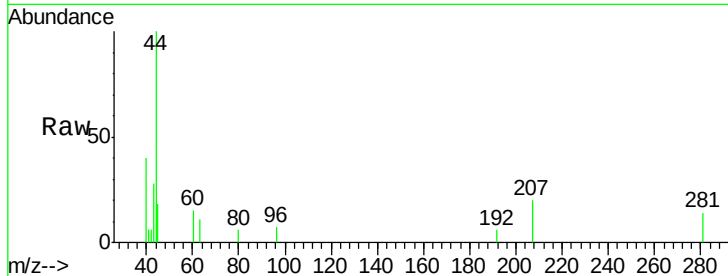
ClientSampleId :

Tot Ion: 63 Resp: 146

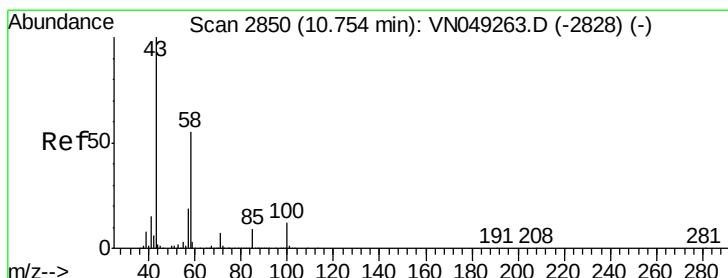
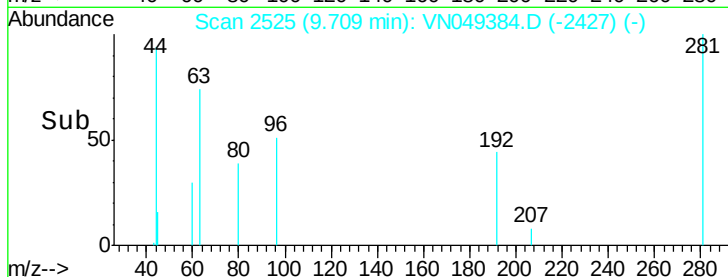
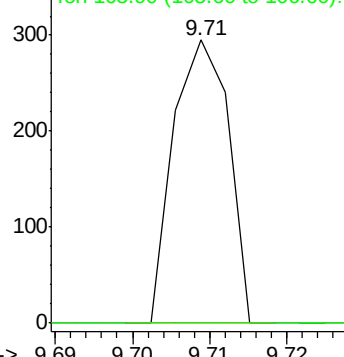
Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



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



#59

2-Hexanone

Concen: 0.63 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN049384.D

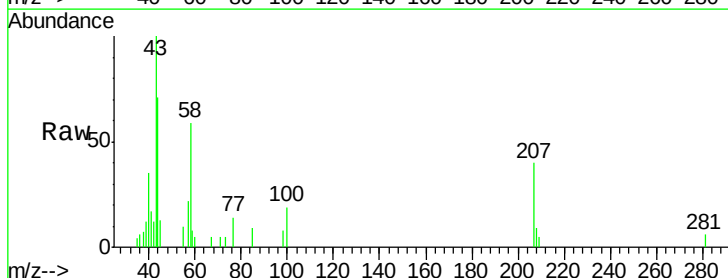
Acq: 19 Jun 2018 14:33

Tgt Ion: 43 Resp: 6252

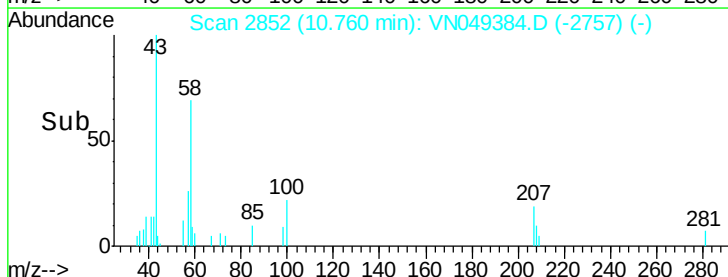
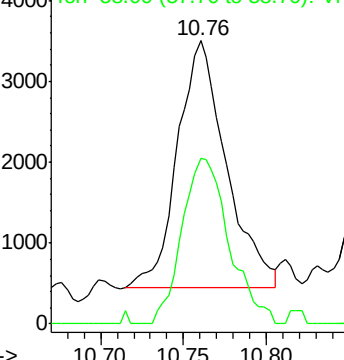
Ion Ratio Lower Upper

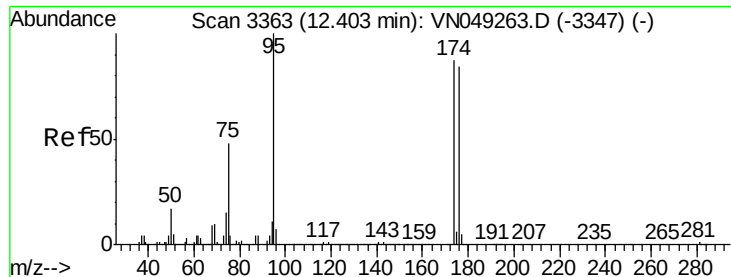
43 100

58 64.6 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2828) (-)





#62

4-Bromofluorobenzene

Concen: 37.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

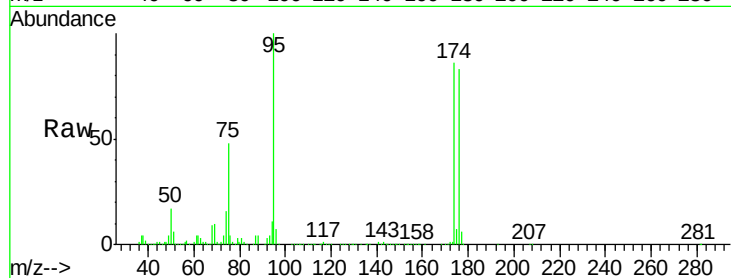
Tot Ion: 95 Resp: 940118

Ion Ratio Lower Upper

95 100

174 87.8 0.0 165.6

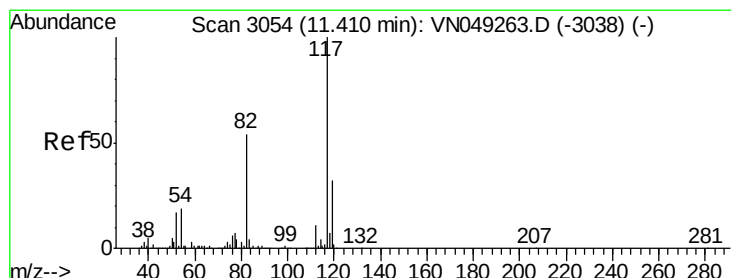
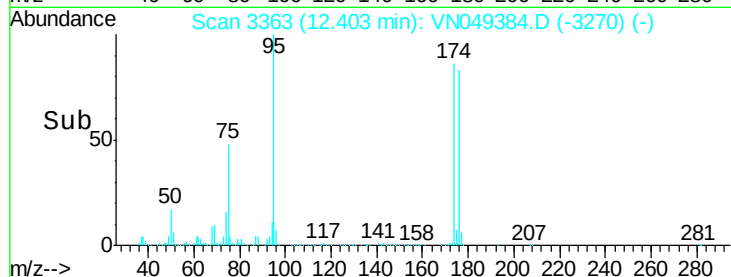
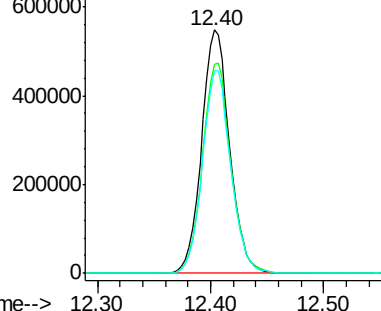
176 84.2 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

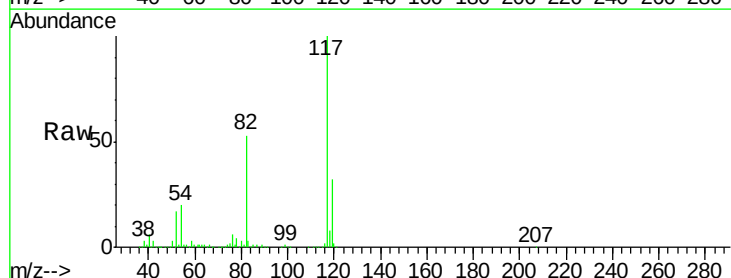
Tgt Ion: 117 Resp: 2085762

Ion Ratio Lower Upper

117 100

82 53.0 45.9 68.9

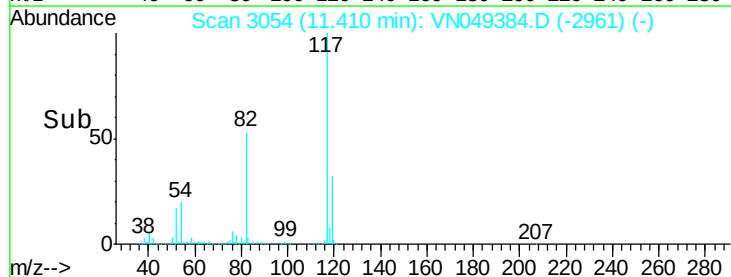
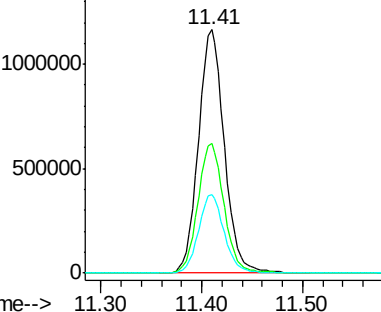
119 32.3 25.5 38.3

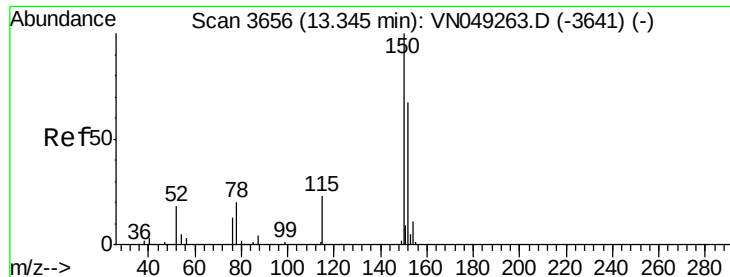


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

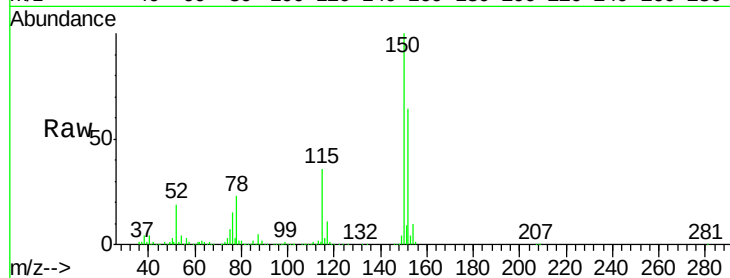
Tot Ion:152 Resp: 679119

Ion Ratio Lower Upper

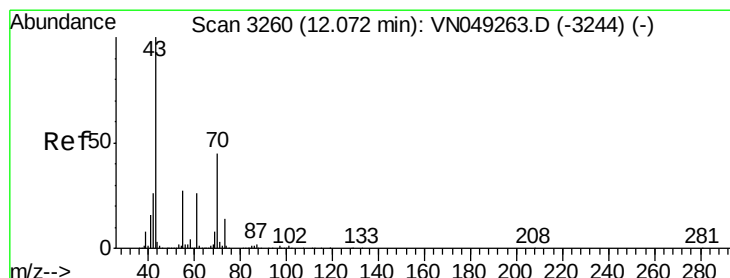
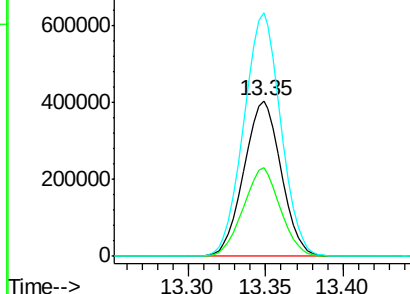
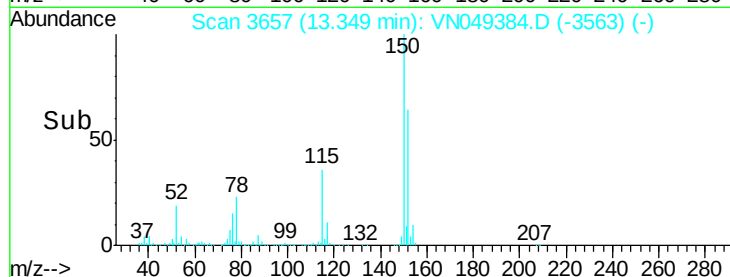
152 100

115 56.7 28.7 86.1

150 155.8 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



#74

N-ethyl acetate

Concen: 0.24 ug/l

RT: 12.08 min Scan# 3263

Delta R.T. 0.01 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Tgt Ion: 43 Resp: 3478

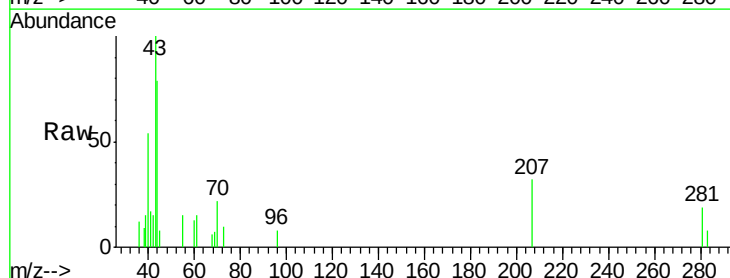
Ion Ratio Lower Upper

43 100

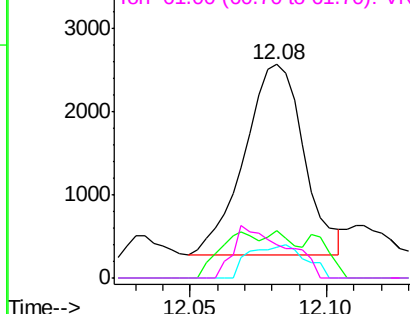
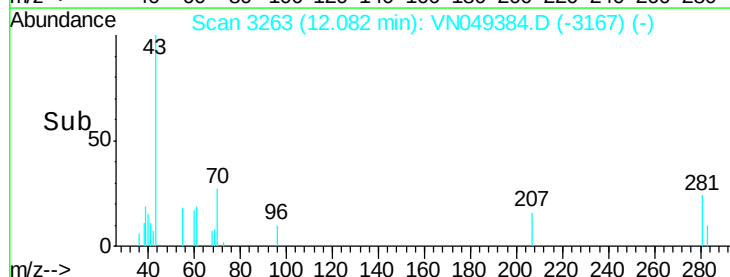
70 8.3 30.3 45.5#

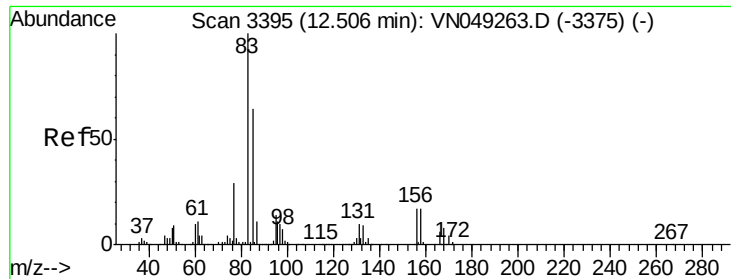
55 16.4 19.4 29.2#

61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

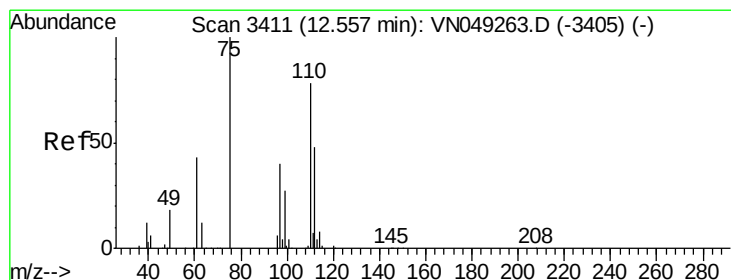
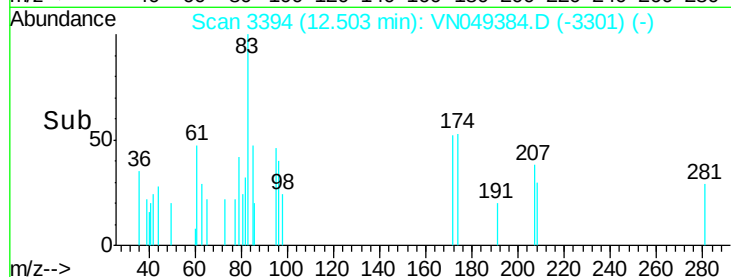
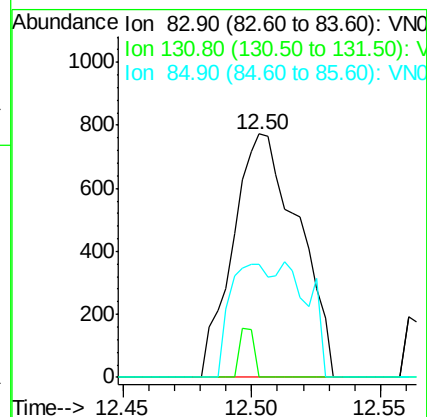
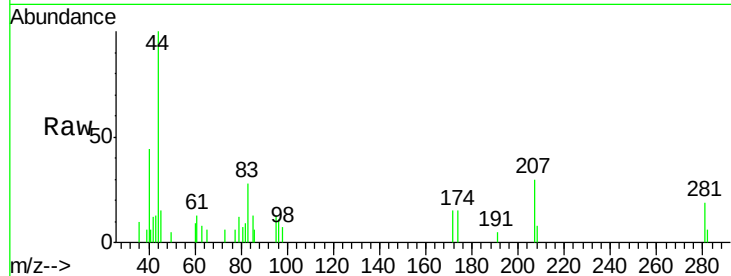
Tot Ion: 83 Resp: 1366

Ion Ratio Lower Upper

83 100

131 4.3 5.0 15.0#

85 27.2 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 38.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049384.D

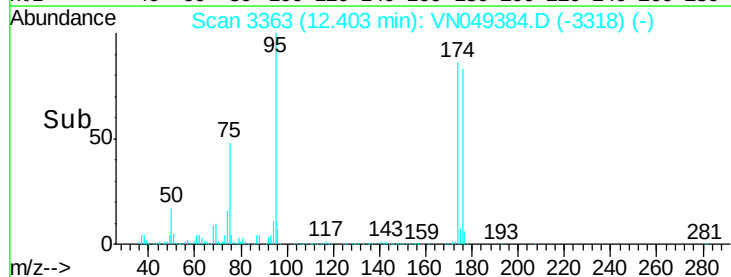
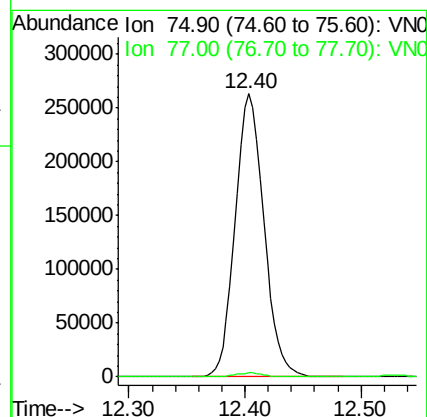
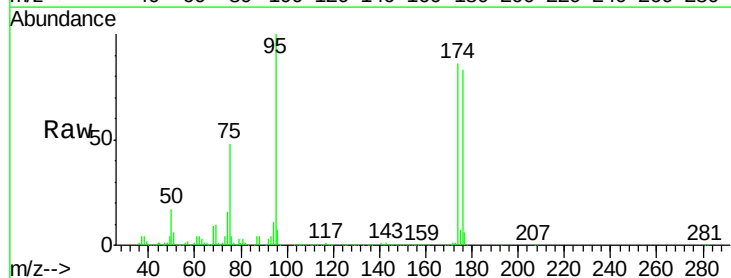
Acq: 19 Jun 2018 14:33

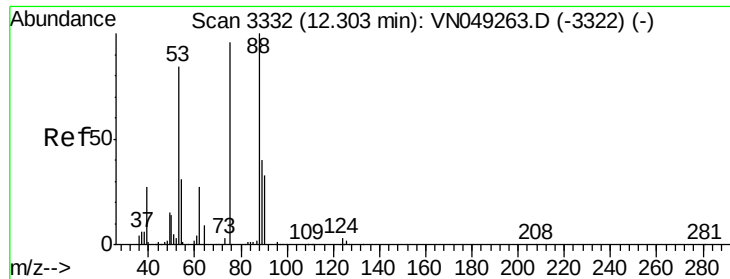
Tgt Ion: 75 Resp: 449927

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

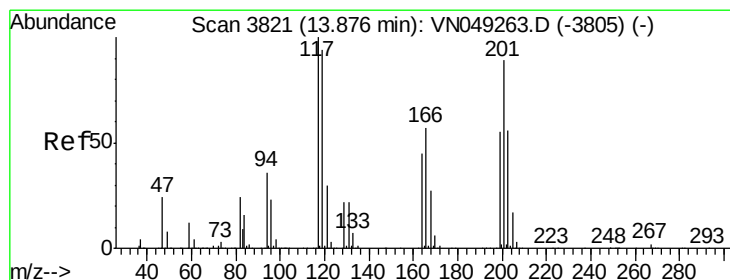
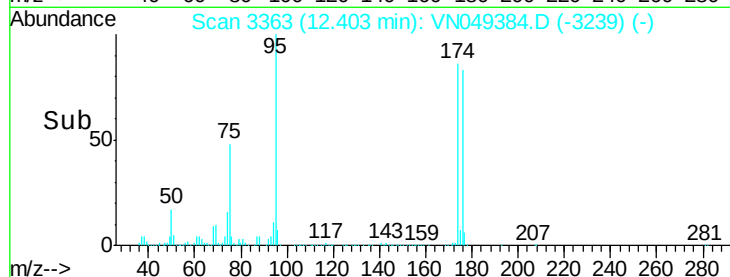
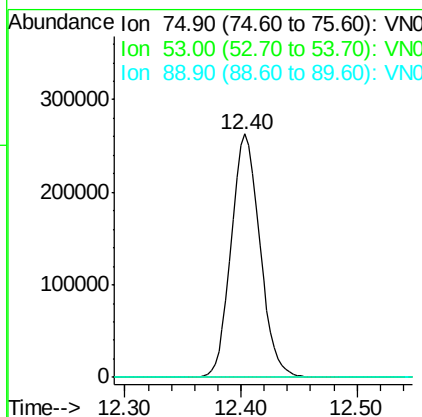
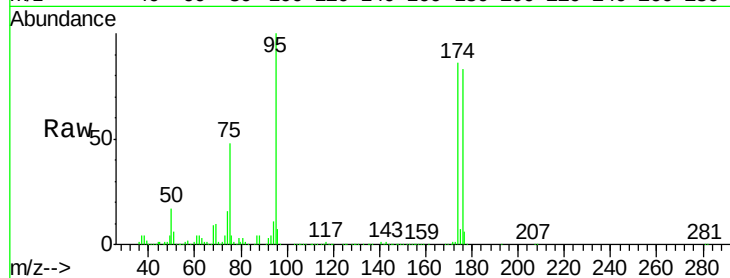




#81
trans-1,4-Dichloro-2-butene
Concen: 122.72 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

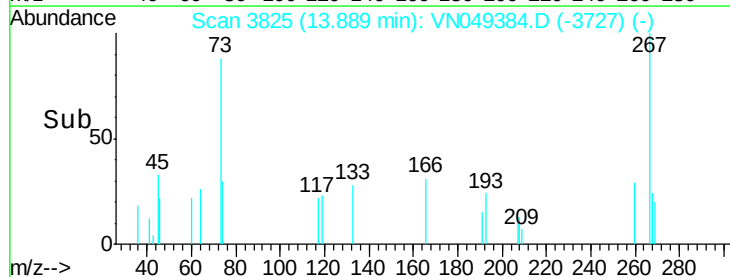
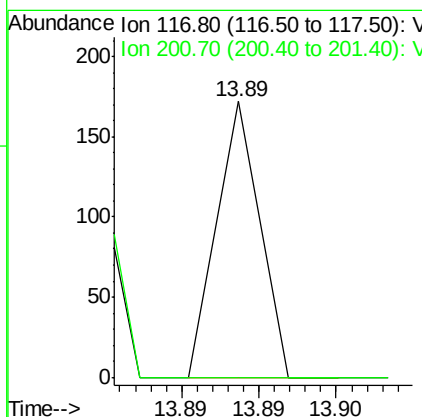
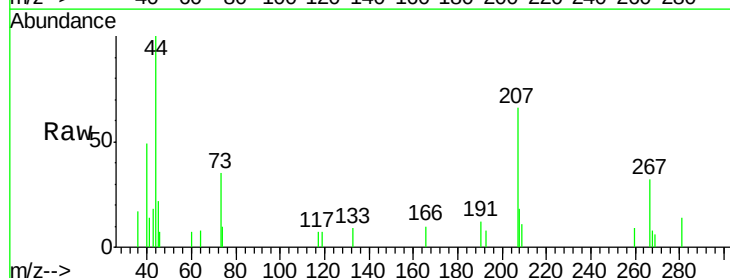
Instrument :
MSVOA_N
ClientSampleId :

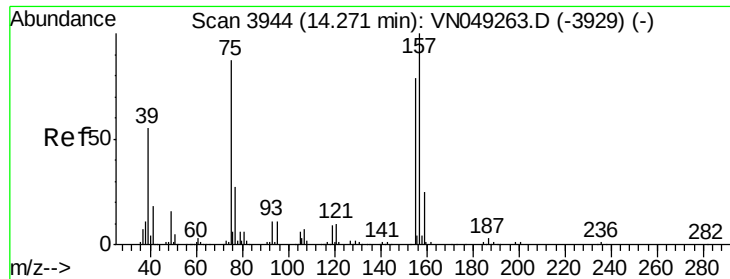
Tot Ion: 75 Resp: 449927
Ion Ratio Lower Upper
75 100
53 0.2 82.7 124.1#
89 0.0 36.5 54.7#



#90
Hexachloroethane
Concen: Below Cal
RT: 13.89 min Scan# 3825
Delta R.T. 0.01 min
Lab File: VN049384.D
Acq: 19 Jun 2018 14:33

Tgt Ion: 117 Resp: 33
Ion Ratio Lower Upper
117 100
201 103.0 40.1 120.2





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.37 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

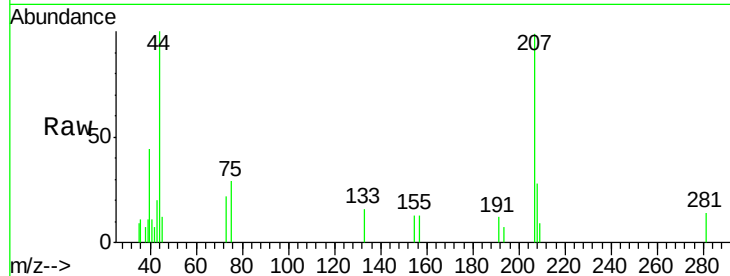
Tot Ion: 75 Resp: 777

Ion Ratio Lower Upper

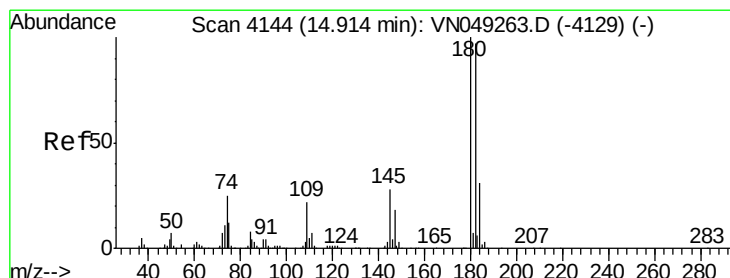
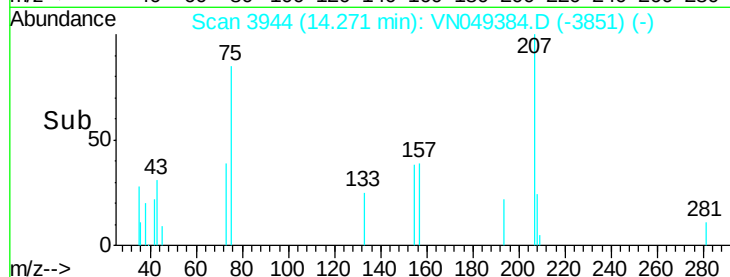
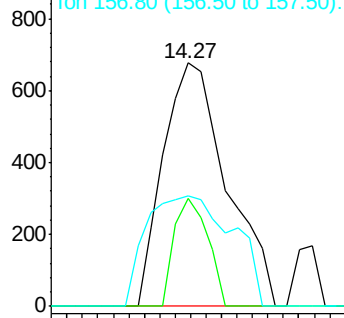
75 100

155 23.2 38.8 116.3#

157 61.4 51.0 153.1



Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-3929) (-)



#93

1,2,4-Trichlorobenzene

Concen: 5.06 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

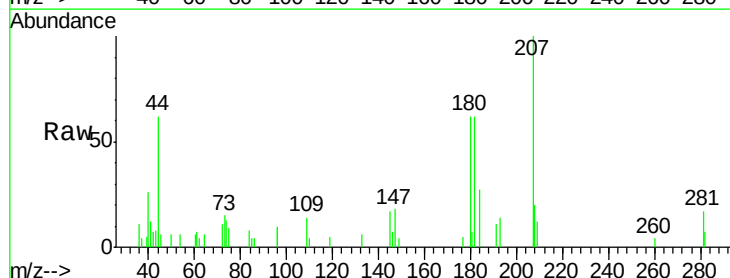
Tgt Ion: 180 Resp: 4106

Ion Ratio Lower Upper

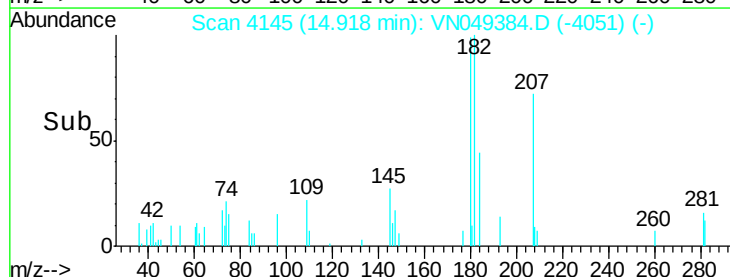
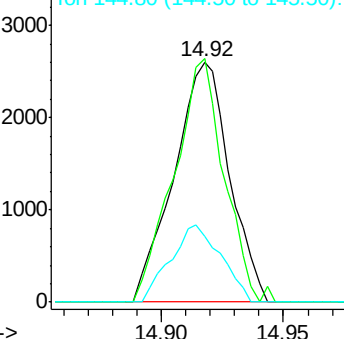
180 100

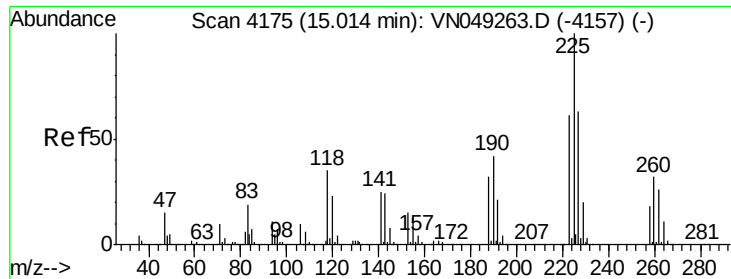
182 91.4 46.9 140.8

145 29.3 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): VN049263.D (-4129) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN049384.D

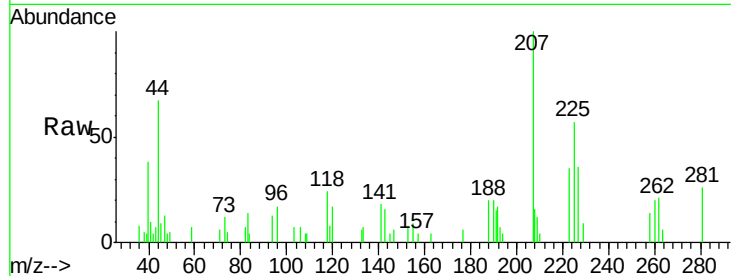
Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

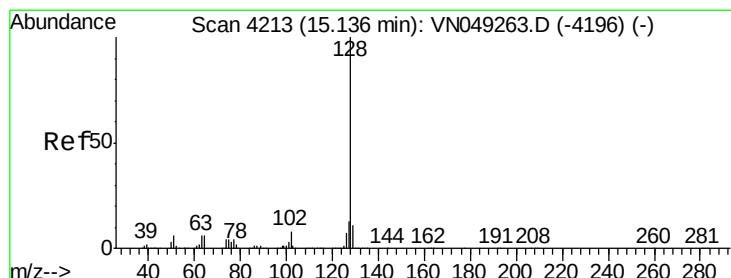
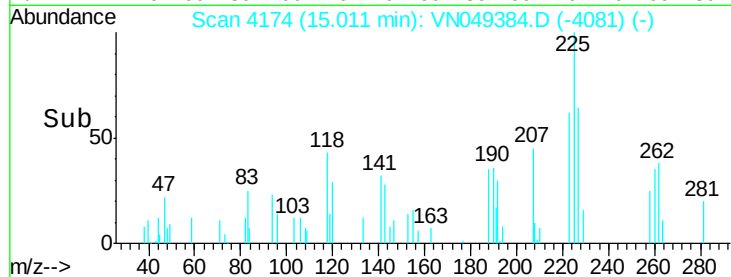
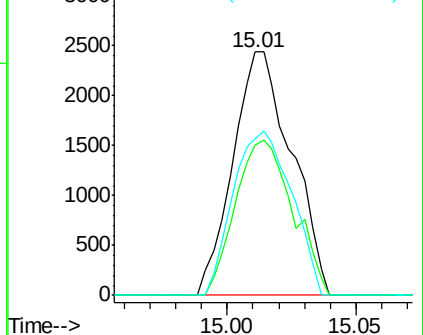
Tot Ion:	225	Resp:	3875
Ion	Ratio	Lower	Upper
225	100		
223	62.4	32.1	96.3
227	67.1	31.8	95.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.57 ug/l

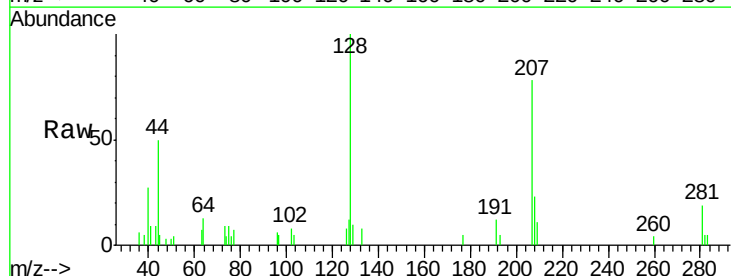
RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

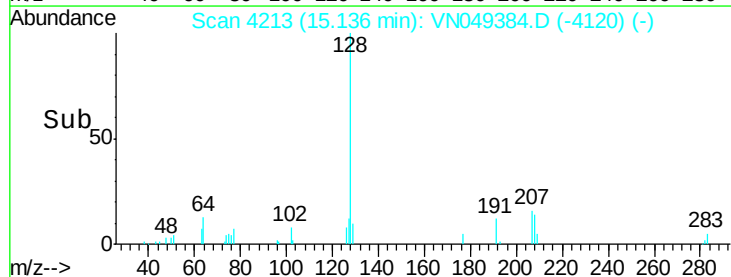
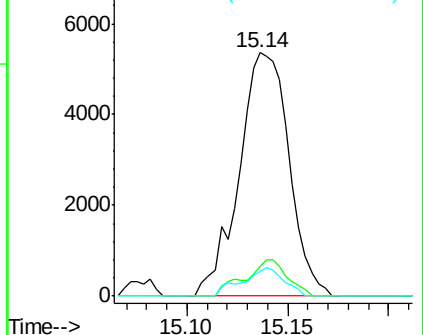
Tgt Ion:	128	Resp:	9294
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	9.8	8.5	12.7

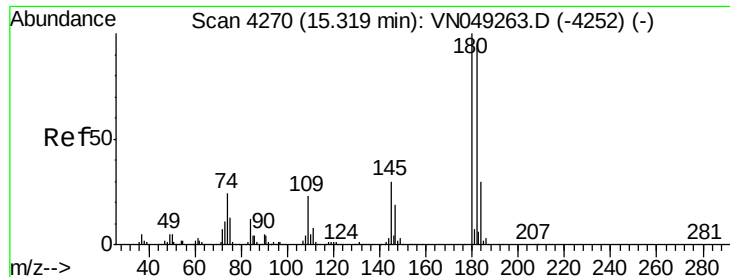


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 3.82 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

Lab File: VN049384.D

Acq: 19 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

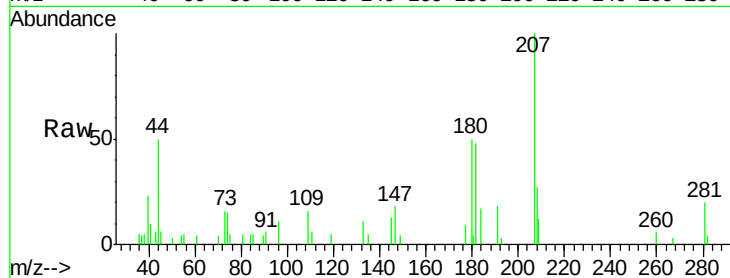
Tot Ion:180 Resp: 4451

Ion Ratio Lower Upper

180 100

182 113.5 47.3 141.8

145 30.9 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

