

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049859.D
 Acq On : 17 Jul 2018 20:55
 Operator : MD\SY
 Sample : J3994-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE BLANK-SAMPLEMANAG

Quant Time: Jul 18 03:37:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 13:20:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	573808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	926044	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	765743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286855	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	407838	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	
35) Dibromofluoromethane	7.59	113	361822	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	10.09	98	1244130	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
62) 4-Bromofluorobenzene	12.40	95	341276	37.79	ug/l	0.00
Spiked Amount			Recovery	=	75.58%	

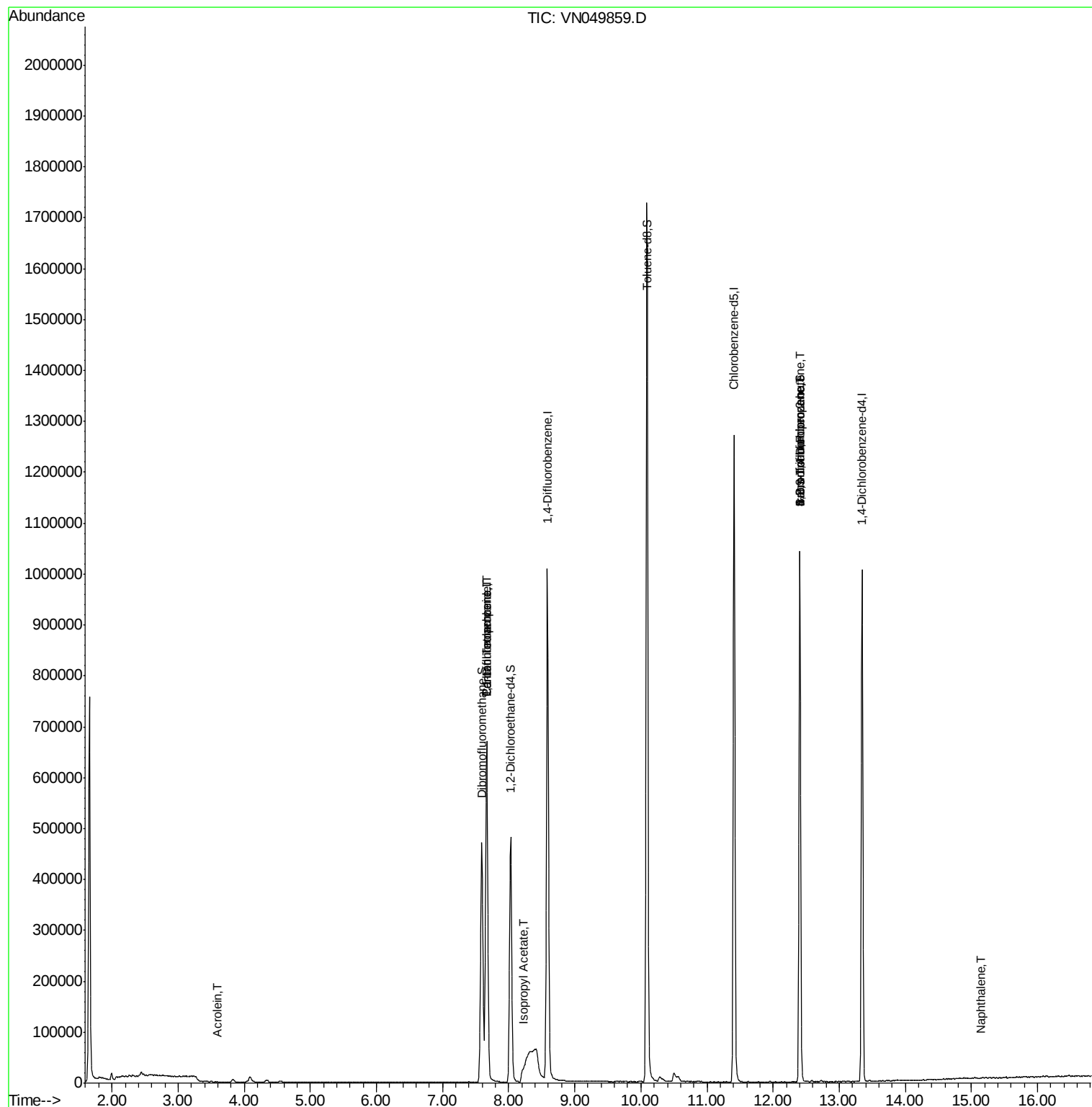
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.86	85	105	Below Cal	#	44
3) Chloromethane	2.06	50	1098	Below Cal	#	47
5) Bromomethane	2.55	94	234	Below Cal		95
6) Chloroethane	2.71	64	62	Below Cal	#	43
7) Trichlorofluoromethane	3.00	101	30	Below Cal	#	17
13) Acrolein	3.61	56	61	15.85	ug/l	# 43
16) Acetone	3.83	43	8383	Below Cal		91
17) Carbon Disulfide	4.04	76	1478	Below Cal	#	75
18) Methyl Acetate	4.33	43	8935	Below Cal		92
20) Methylene Chloride	4.55	84	1620	Below Cal	#	64
31) Cyclohexane	7.67	56	10642	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40642	4.15	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	52741	5.11	ug/l	# 16
43) Isopropyl Acetate	8.21	43	14925	1.20	ug/l	# 65
71) Bromoform	12.40	173	3415	0.64	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	167890	29.91	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	167890	97.90	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.22	75	30	Below Cal	#	1
95) Naphthalene	15.14	128	430	2.86	ug/l	# 69

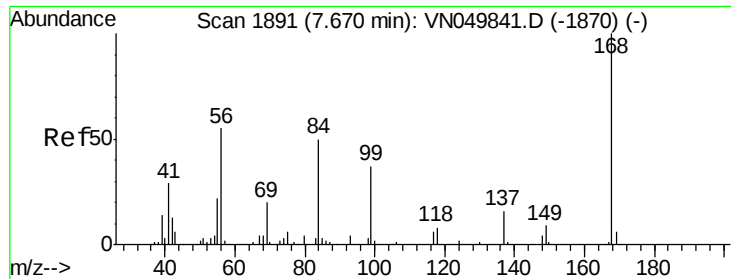
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

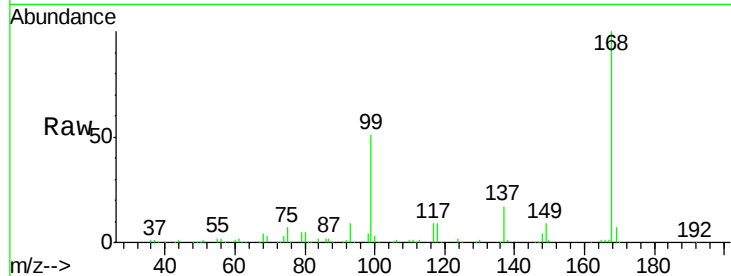
STORAGEBLANK-SAMPLEMANAG

Tot Ion:168 Resp: 573808

Ion Ratio Lower Upper

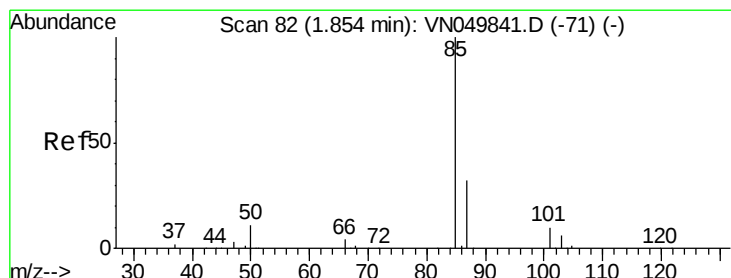
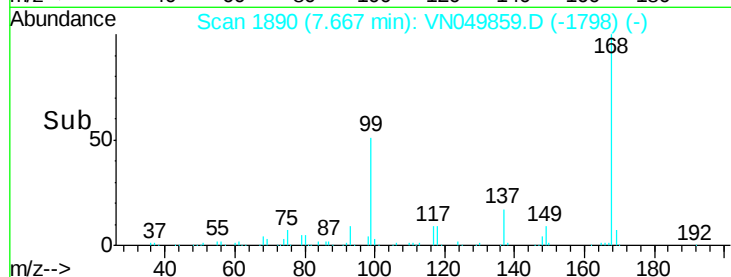
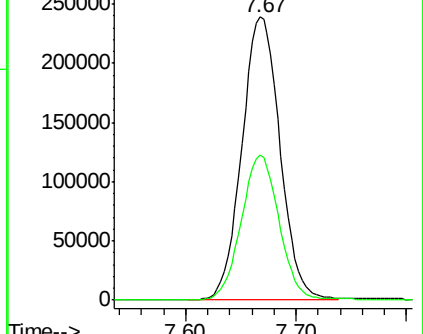
168 100

99 51.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.86 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN049859.D

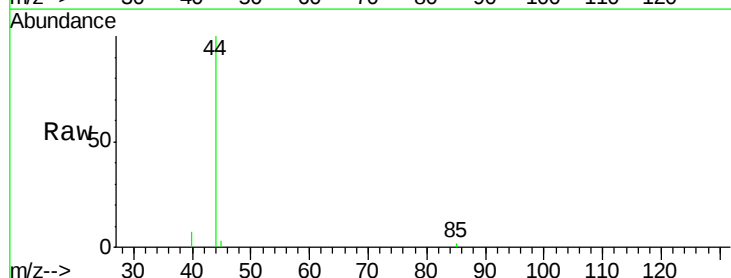
Acq: 17 Jul 2018 20:55

Tgt Ion: 85 Resp: 105

Ion Ratio Lower Upper

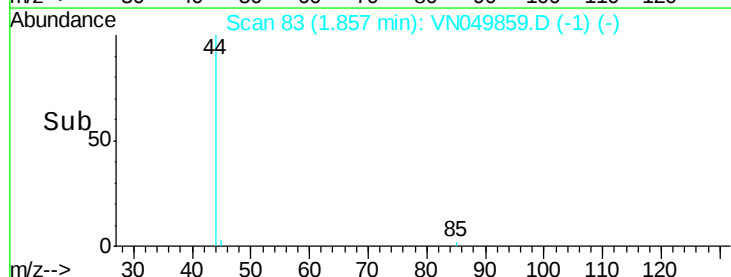
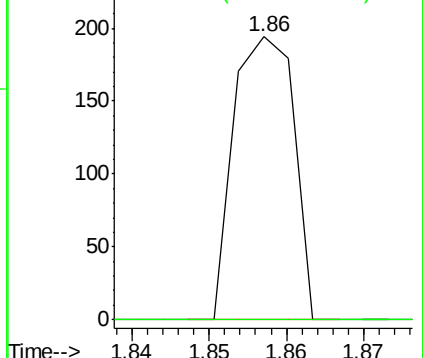
85 100

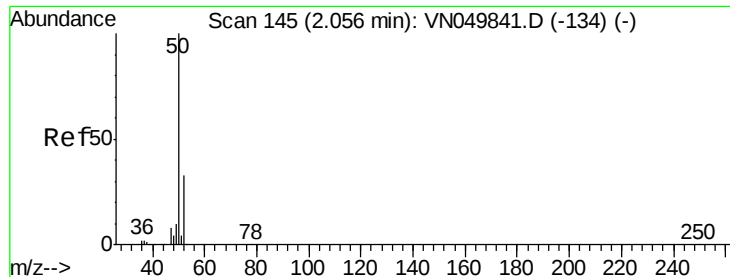
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

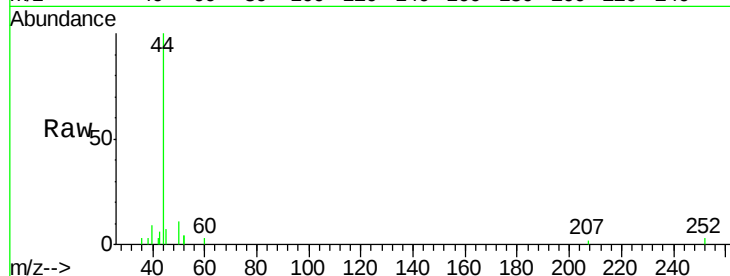
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 50 Resp: 1098

Ion Ratio Lower Upper

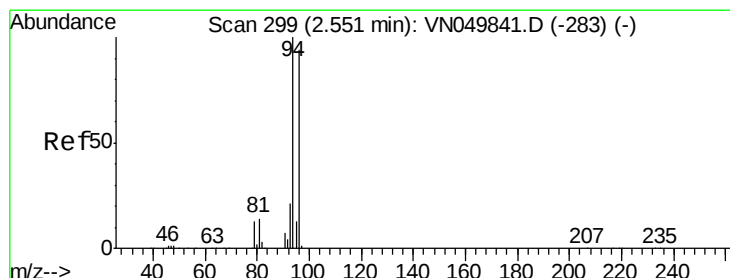
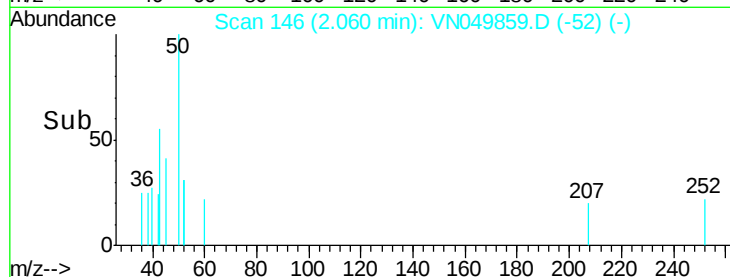
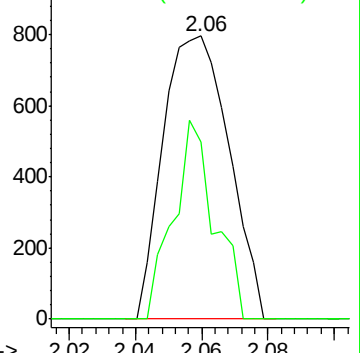
50 100

52 62.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. 0.00 min

Lab File: VN049859.D

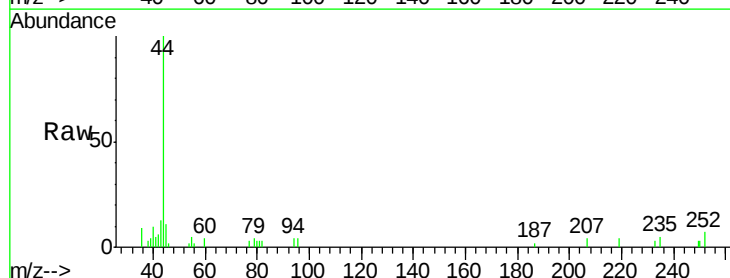
Acq: 17 Jul 2018 20:55

Tgt Ion: 94 Resp: 234

Ion Ratio Lower Upper

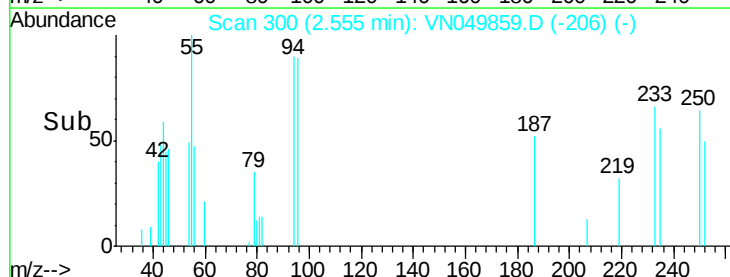
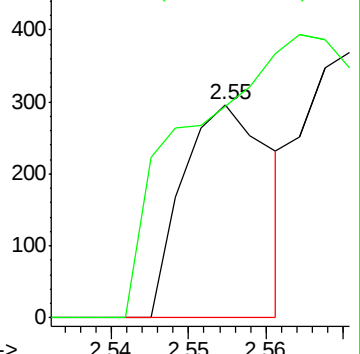
94 100

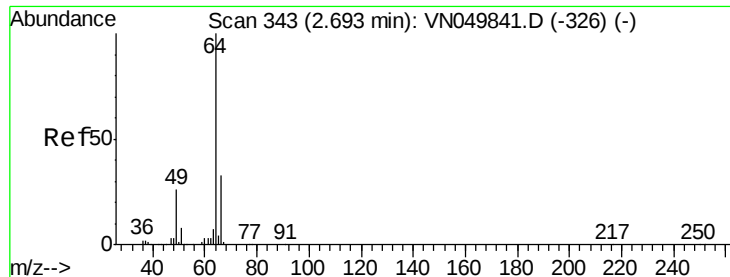
96 99.7 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 348

Delta R.T. 0.02 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

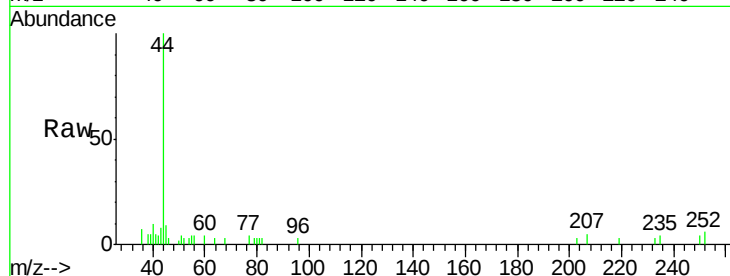
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 64 Resp: 62

Ion Ratio Lower Upper

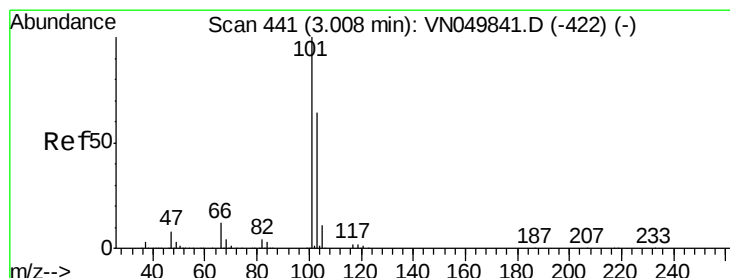
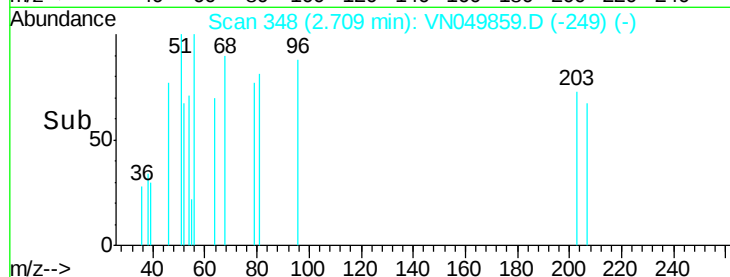
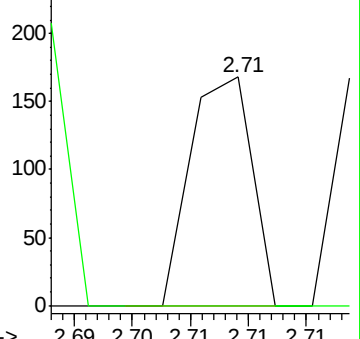
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VN049859.D (-348) (-)

Ion 65.90 (65.60 to 66.60): VN049859.D (-348) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.00 min Scan# 440

Delta R.T. -0.00 min

Lab File: VN049859.D

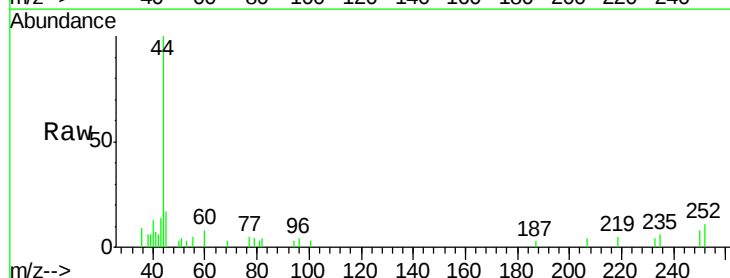
Acq: 17 Jul 2018 20:55

Tgt Ion: 101 Resp: 30

Ion Ratio Lower Upper

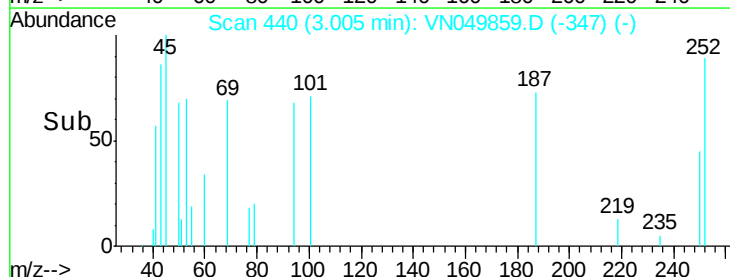
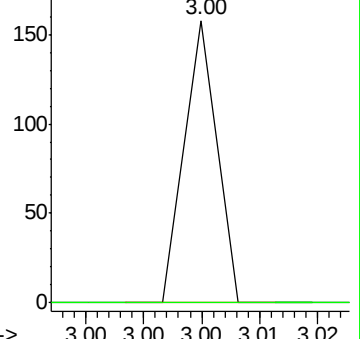
101 100

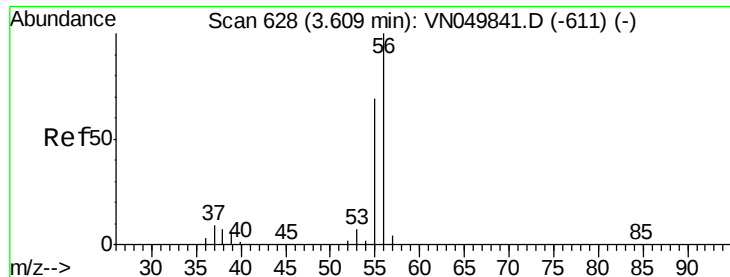
103 0.0 52.8 79.2#



Abundance Ion 100.90 (100.60 to 101.60): VN049859.D (-440) (-)

Ion 102.80 (102.50 to 103.50): VN049859.D (-440) (-)





#13

Acrolein

Concen: 15.85 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

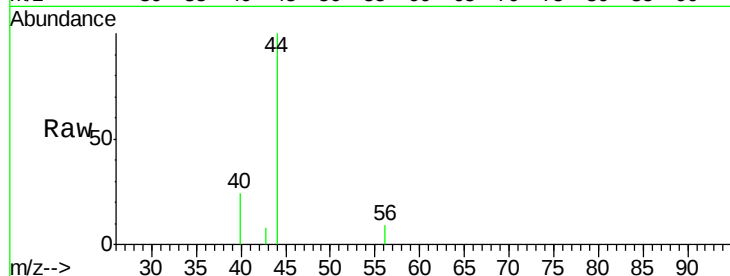
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

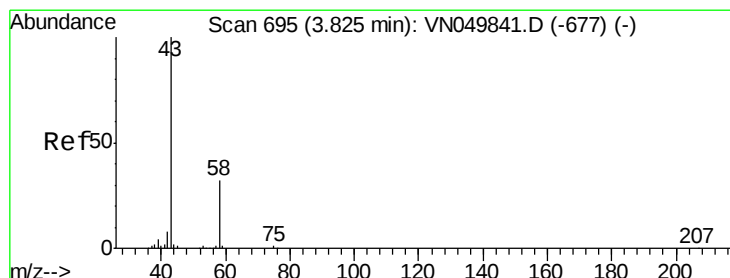
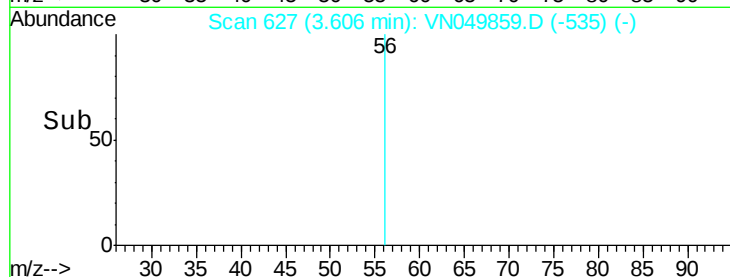
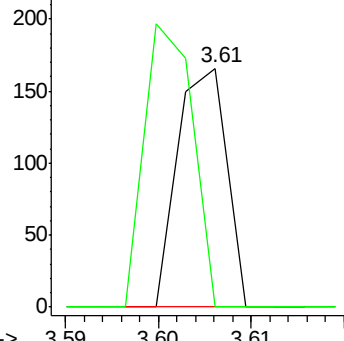
56 100

55 116.4 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN049859.D

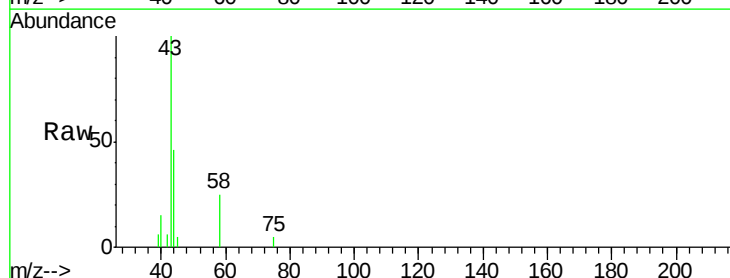
Acq: 17 Jul 2018 20:55

Tgt Ion: 43 Resp: 8383

Ion Ratio Lower Upper

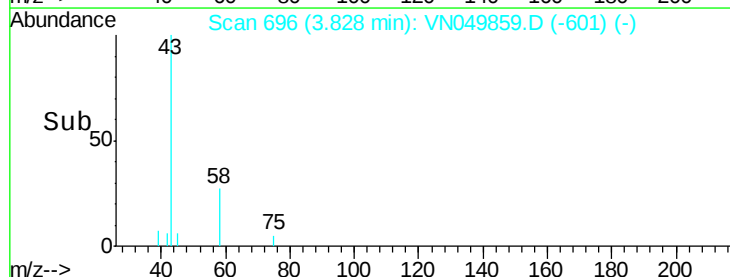
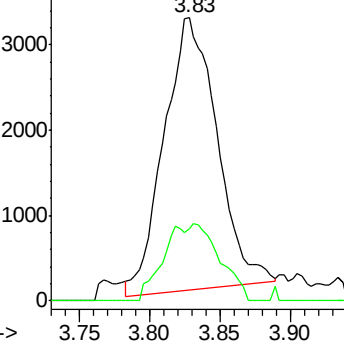
43 100

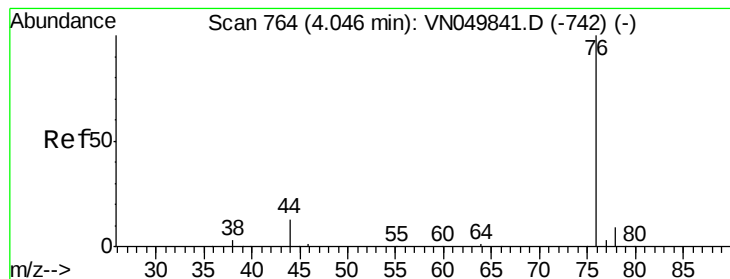
58 27.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

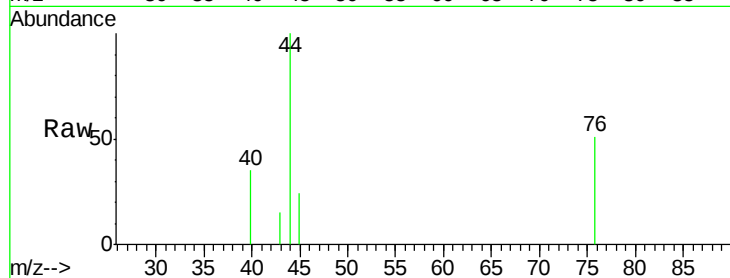
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 76 Resp: 1478

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

800

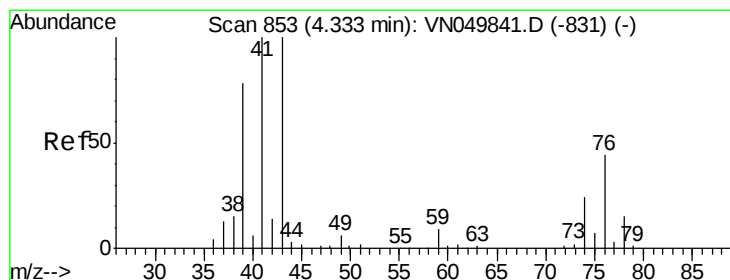
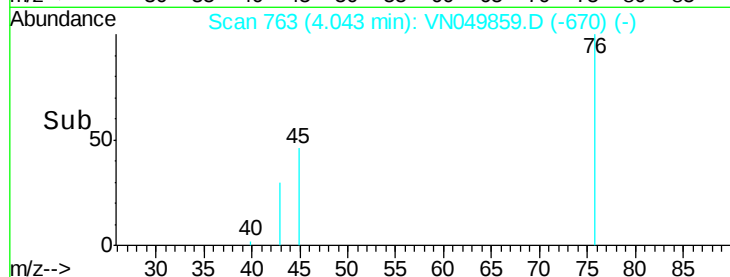
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049859.D

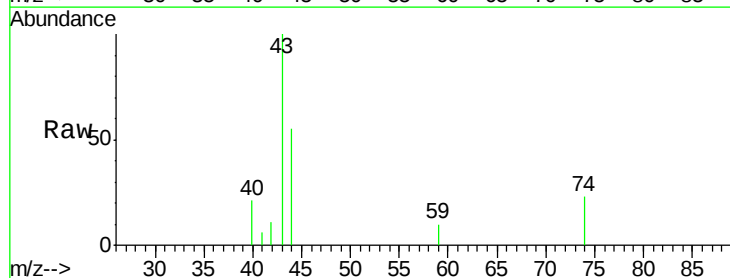
Acq: 17 Jul 2018 20:55

Tgt Ion: 43 Resp: 8935

Ion Ratio Lower Upper

43 100

74 20.6 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

3000

2500

2000

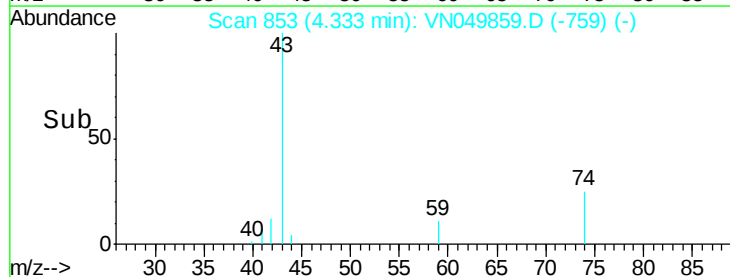
1500

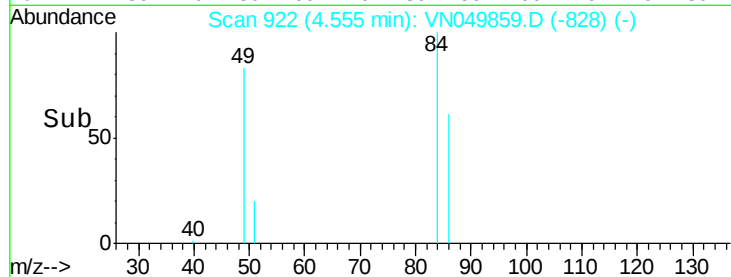
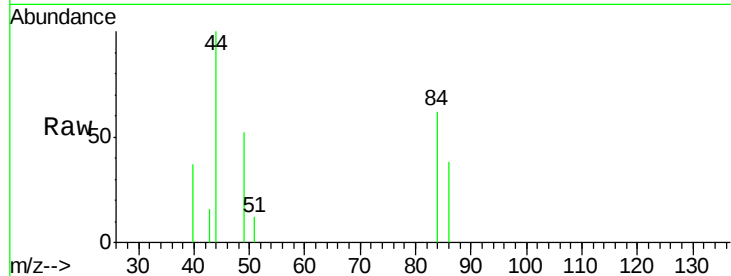
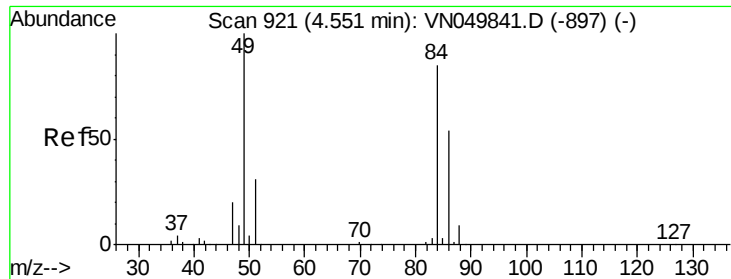
1000

500

0

Time-->

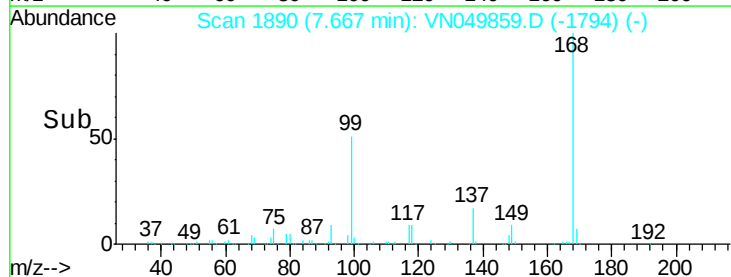
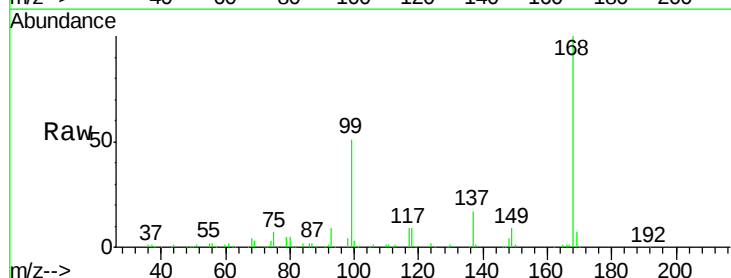
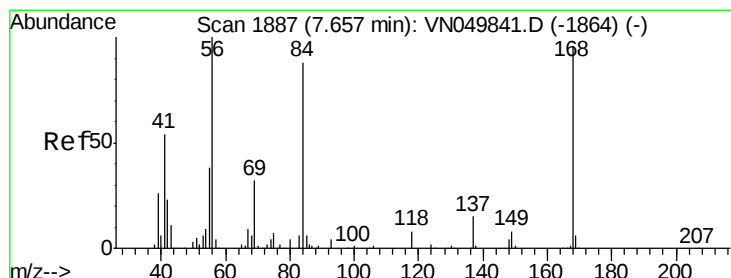
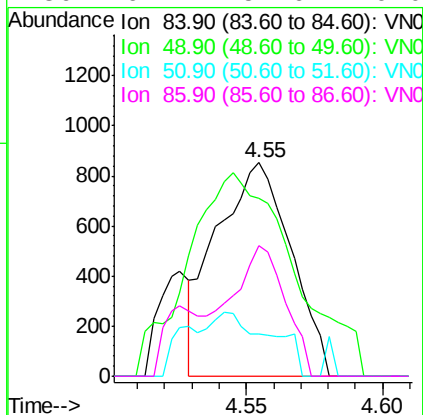




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

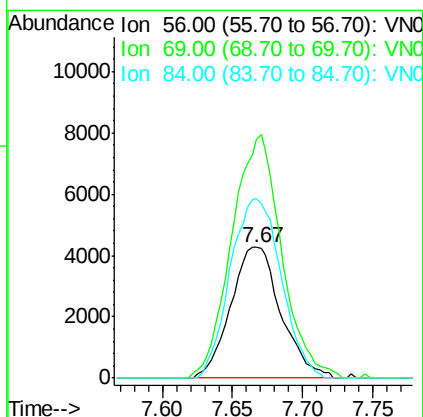
Instrument :
MSVOA_N
ClientSampleId :
STORAGEBLANK-SAMPLEMANAG

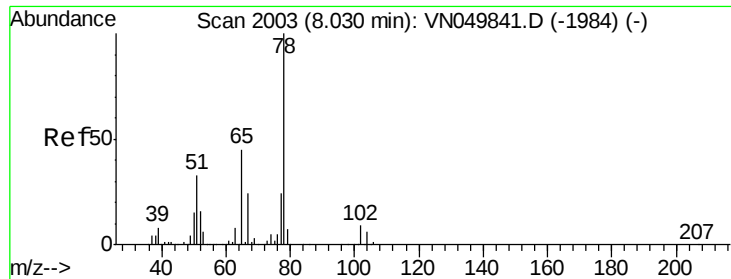
Tot Ion:	84	Resp:	1620
Ion	Ratio	Lower	Upper
84	100		
49	58.0	95.4	143.2#
51	19.7	28.4	42.6#
86	61.2	52.6	79.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Tgt Ion:	56	Resp:	10642
Ion	Ratio	Lower	Upper
56	100		
69	181.8	26.6	40.0#
84	137.6	69.0	103.6#





#33

1,2-Dichloroethane-d4

Concen: 53.06 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

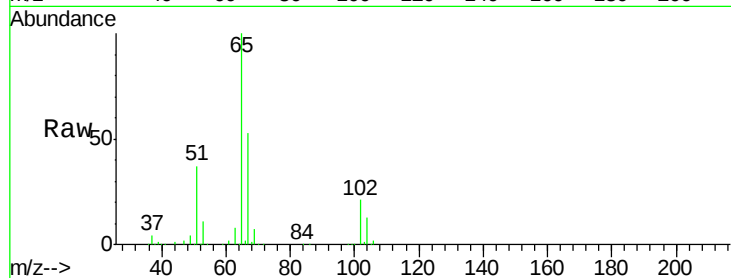
STORAGEBLANK-SAMPLEMANAG

Tot Ion: 65 Resp: 407838

Ion Ratio Lower Upper

65 100

67 53.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049841.D (-1984) (-)

Ion 66.90 (66.60 to 67.60): VN049841.D (-1984) (-)

8.03

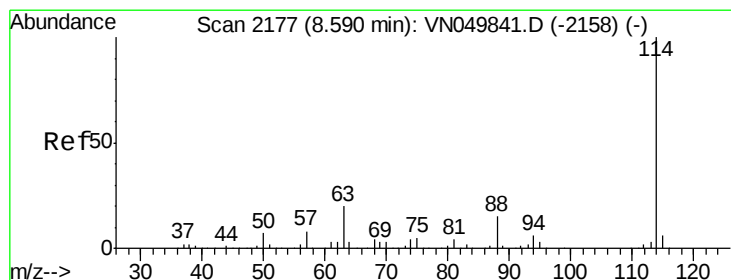
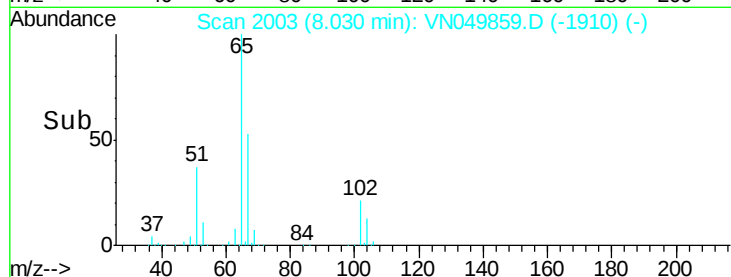
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

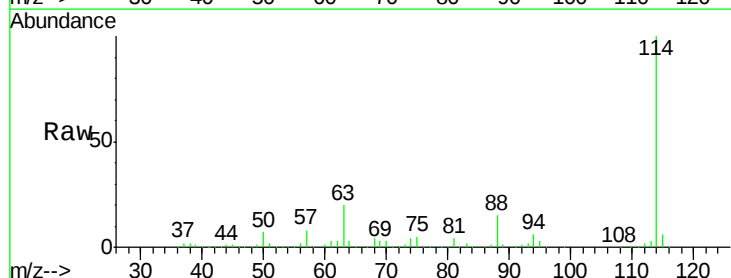
Tgt Ion: 114 Resp: 926044

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

88 15.0 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049841.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN049841.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN049841.D (-2158) (-)

8.59

600000

500000

400000

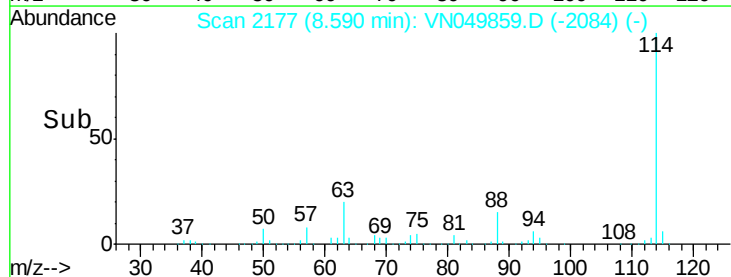
300000

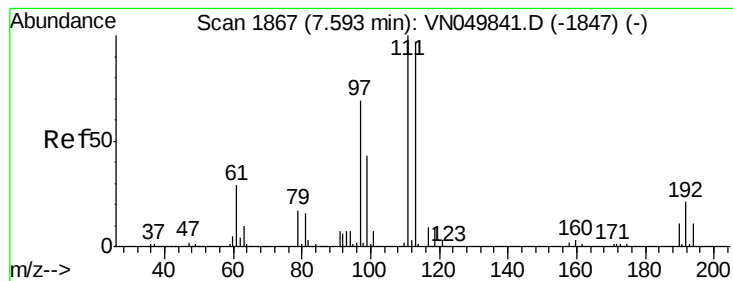
200000

100000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 49.26 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

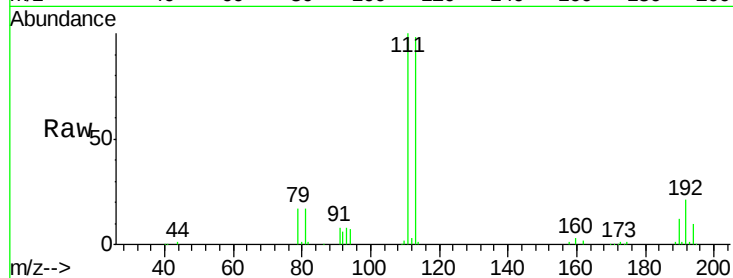
Tot Ion:113 Resp: 361822

Ion Ratio Lower Upper

113 100

111 100.9 81.8 122.8

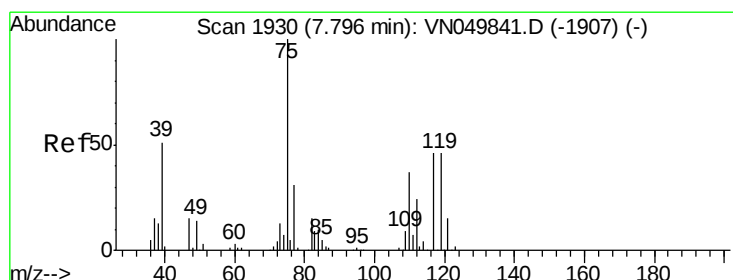
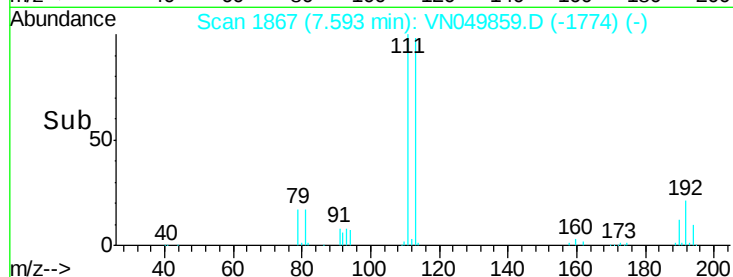
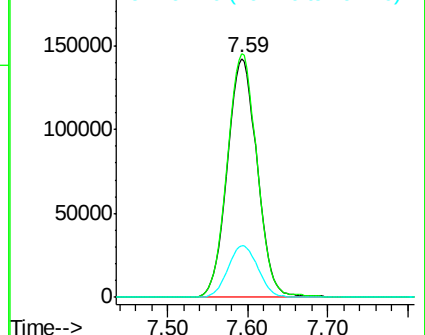
192 21.9 17.8 26.6



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: 4.15 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

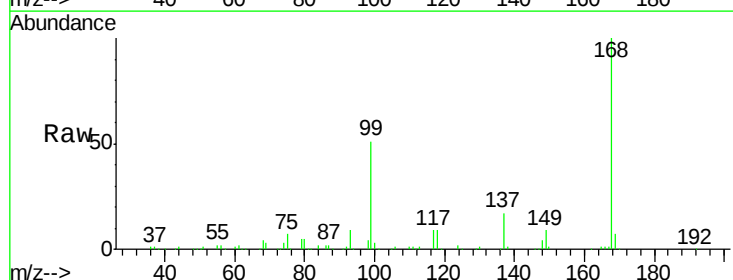
Tgt Ion: 75 Resp: 40642

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.4#

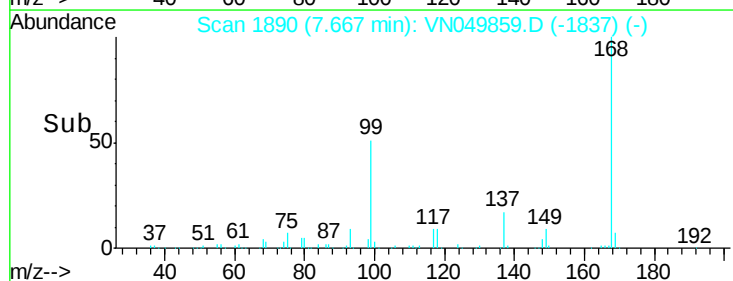
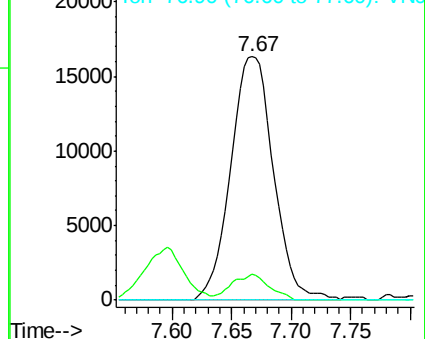
77 0.0 24.9 37.3#

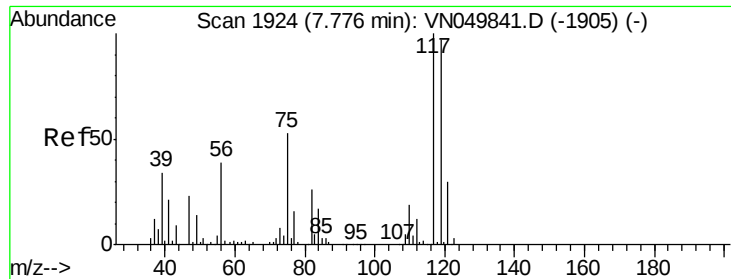


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

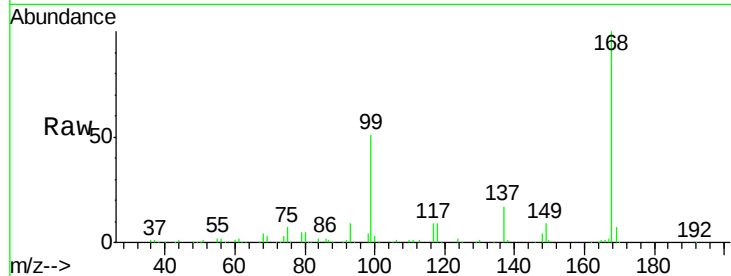




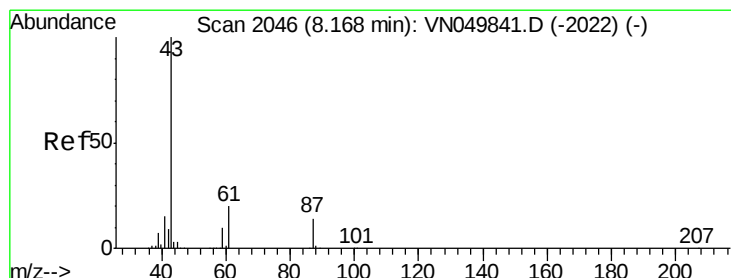
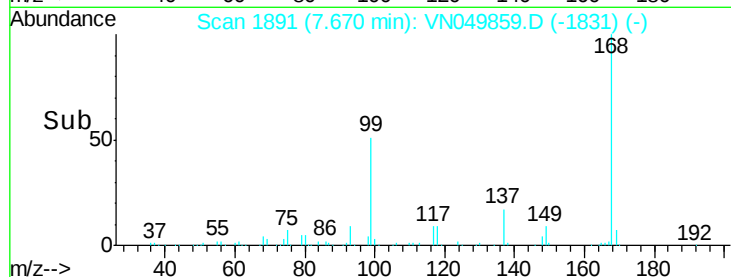
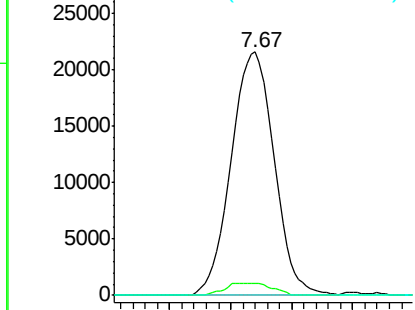
#38
Carbon Tetrachloride
Concen: 5.11 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
STORAGEBLANK-SAMPLEMANAG

Tot Ion:117 Resp: 52741
Ion Ratio Lower Upper
117 100
119 5.1 77.2 115.8#
121 0.0 25.0 37.6#

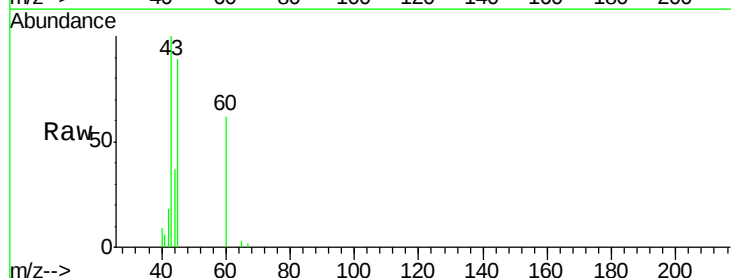


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

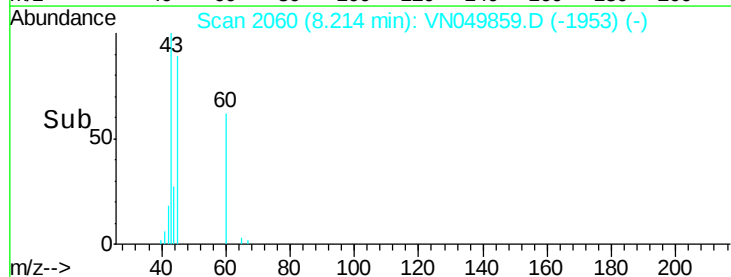
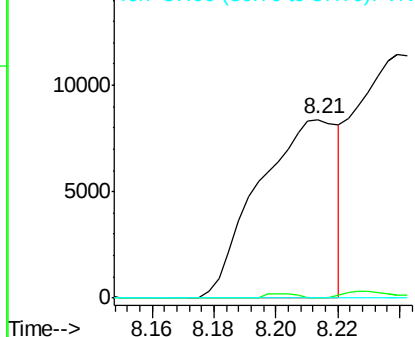


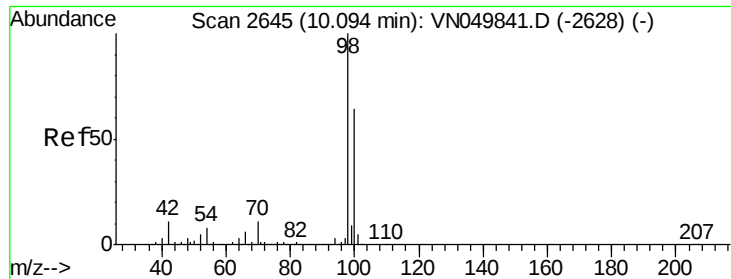
#43
Isopropyl Acetate
Concen: 1.20 ug/l
RT: 8.21 min Scan# 2060
Delta R.T. 0.05 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Tgt Ion: 43 Resp: 14925
Ion Ratio Lower Upper
43 100
61 2.3 14.9 22.3#
87 0.0 10.0 15.0#



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

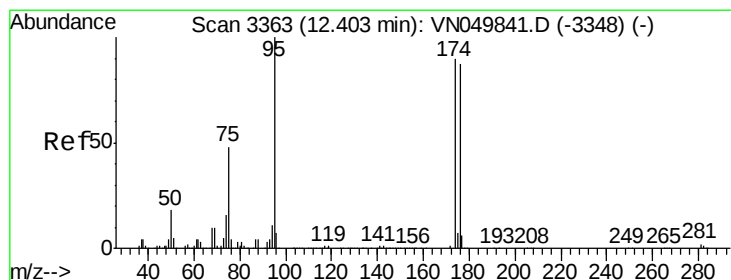
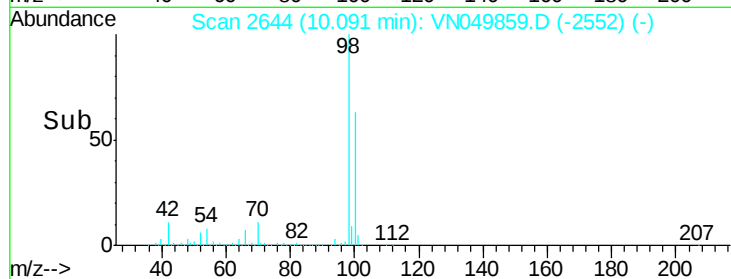
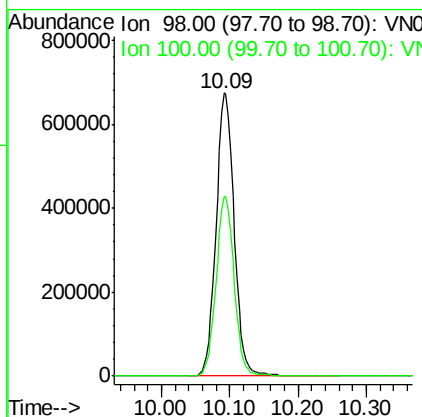
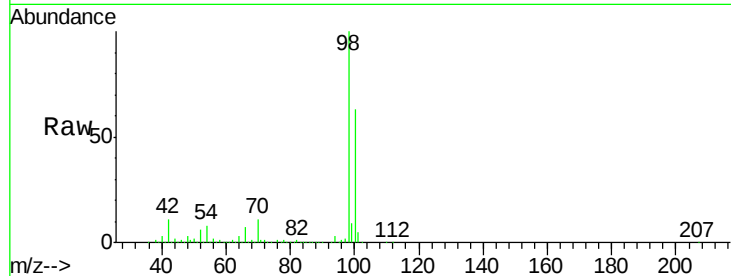




#50
Toluene-d8
Concen: 46.13 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

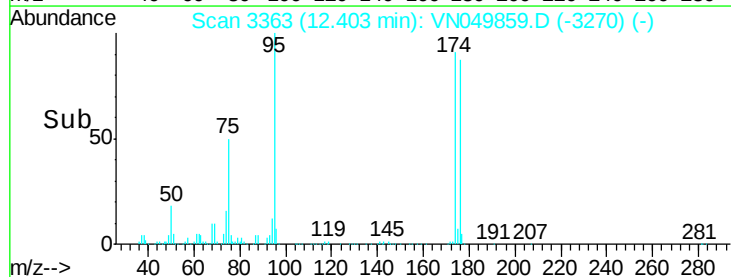
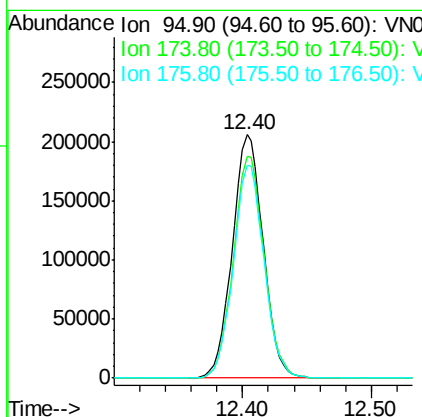
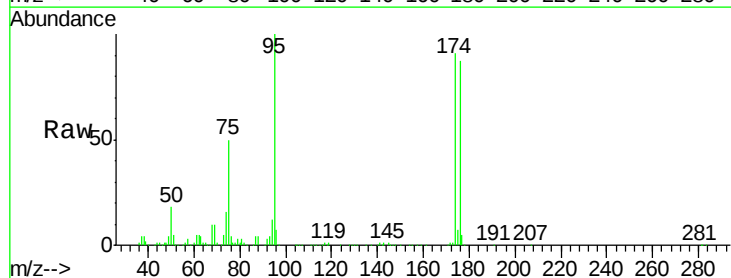
Instrument :
MSVOA_N
ClientSampleId :
STORAGEBLANK-SAMPLEMANAG

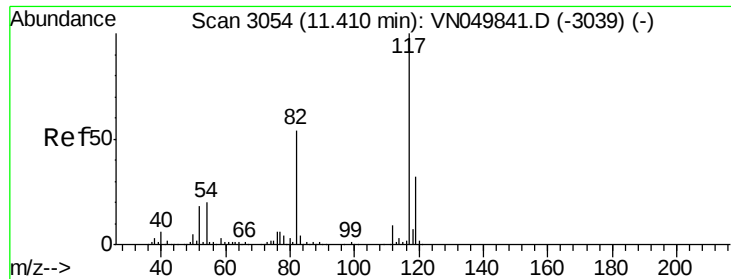
Tot Ion: 98 Resp: 1244130
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 37.79 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Tgt Ion: 95 Resp: 341276
Ion Ratio Lower Upper
95 100
174 91.6 0.0 179.6
176 87.1 0.0 174.0

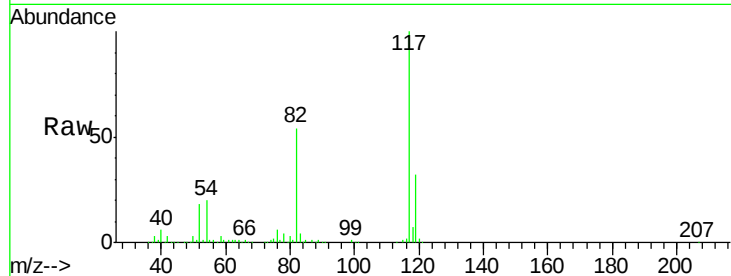




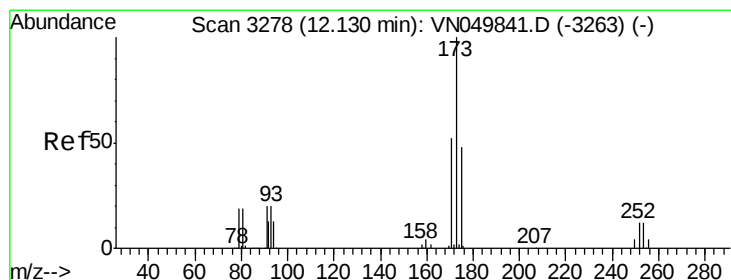
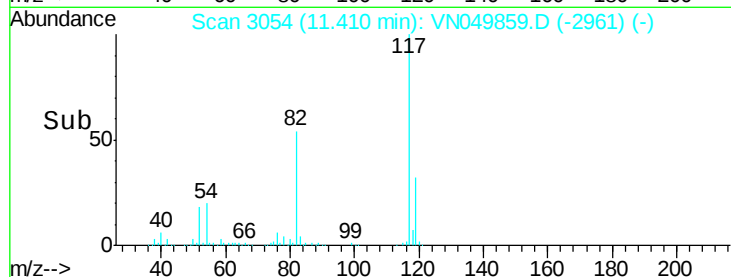
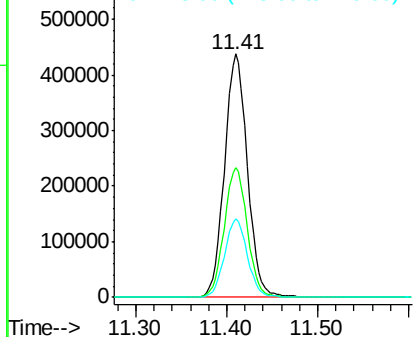
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Instrument :
MSVOA_N
ClientSampleId :
STORAGEBLANK-SAMPLEMANAG

Tot Ion:117 Resp: 765743
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 32.1 25.4 38.2

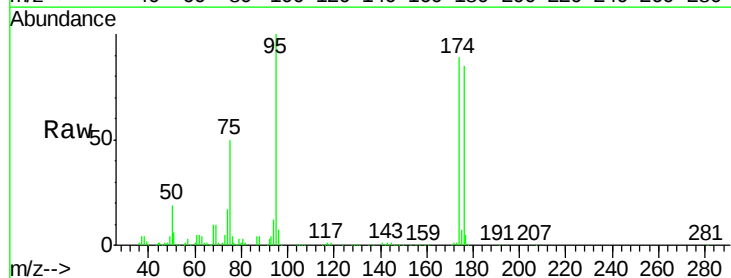


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

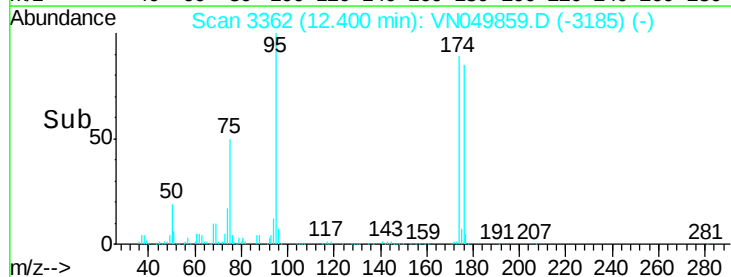
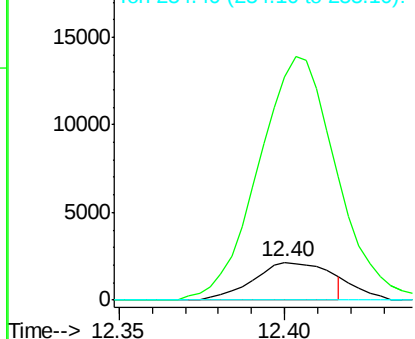


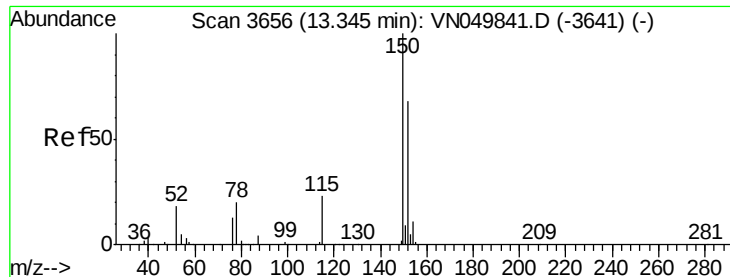
#71
Bromoform
Concen: 0.64 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN049859.D
Acq: 17 Jul 2018 20:55

Tgt Ion:173 Resp: 3415
Ion Ratio Lower Upper
173 100
175 593.2 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: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

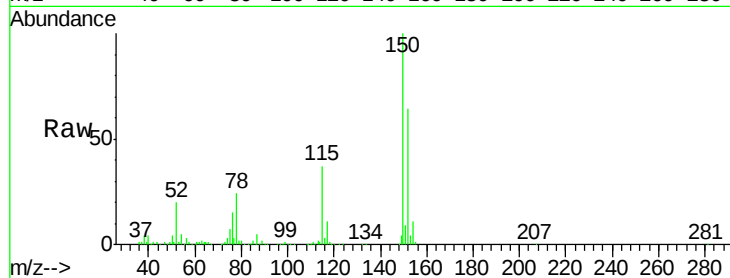
Tot Ion:152 Resp: 286855

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

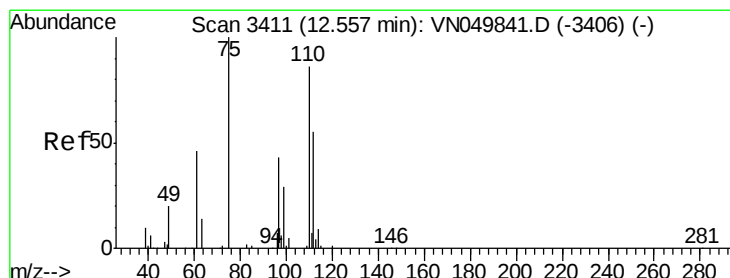
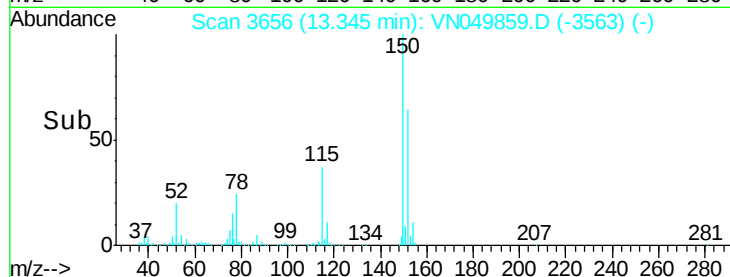
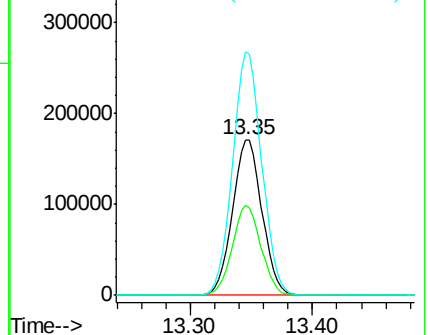
150 155.5 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 29.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049859.D

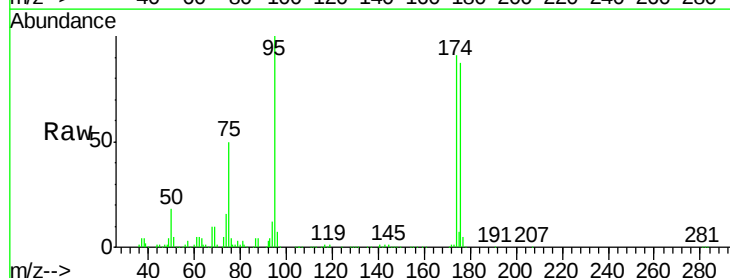
Acq: 17 Jul 2018 20:55

Tgt Ion: 75 Resp: 167890

Ion Ratio Lower Upper

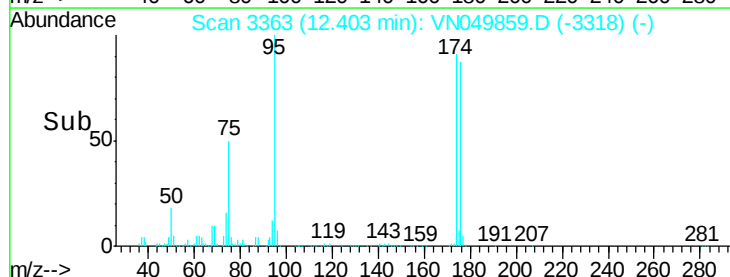
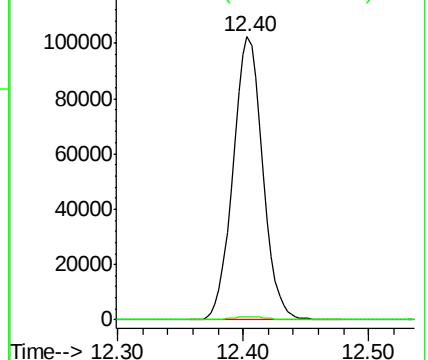
75 100

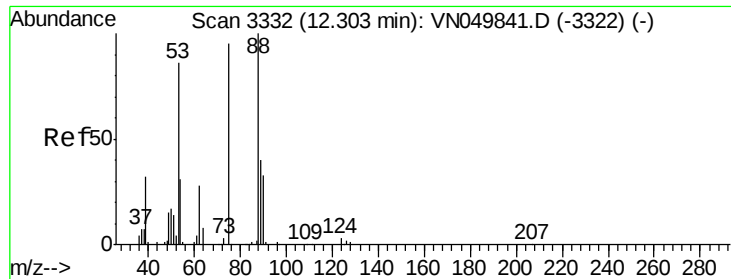
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.90 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG

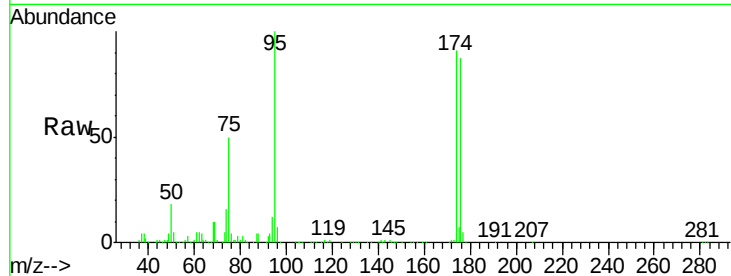
Tot Ion: 75 Resp: 167890

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

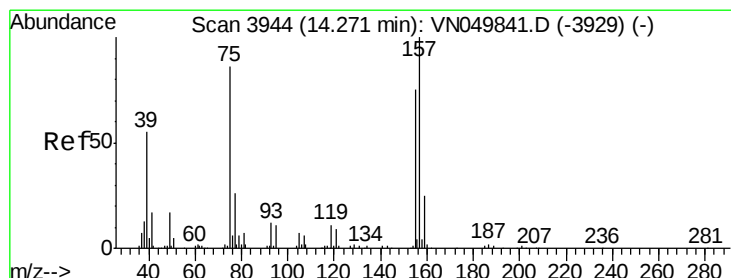
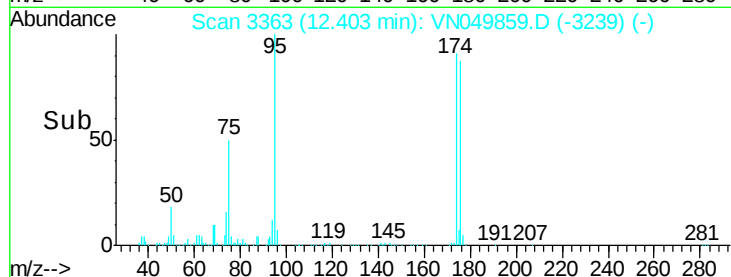
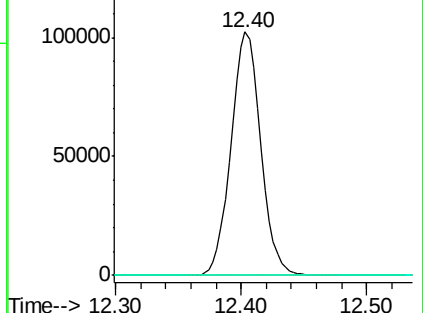
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.22 min Scan# 3928

Delta R.T. -0.05 min

Lab File: VN049859.D

Acq: 17 Jul 2018 20:55

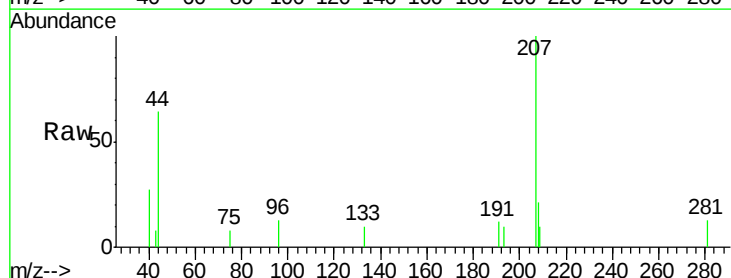
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

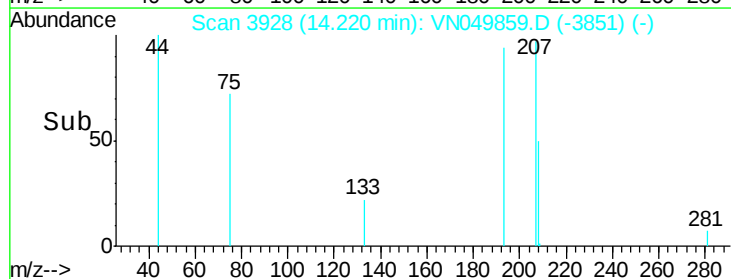
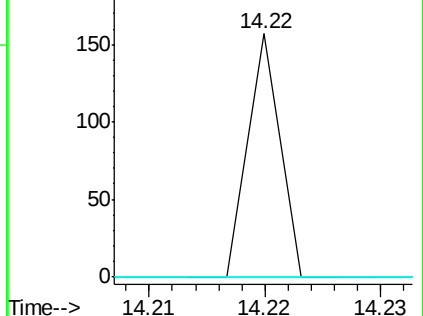
157 0.0 56.9 170.7#

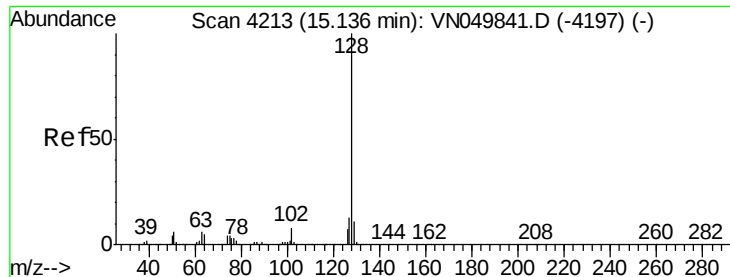


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 2.86 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049859.D

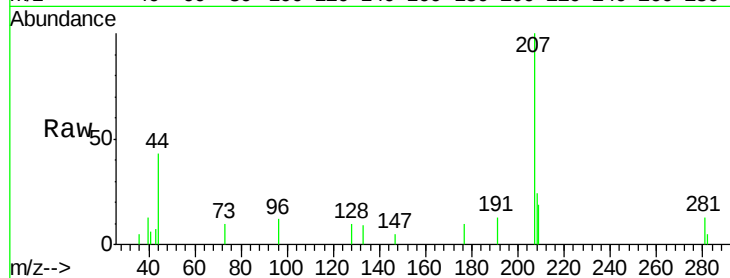
Acq: 17 Jul 2018 20:55

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SAMPLEMANAG



Tot Ion:	128	Resp:	430
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#

