

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070618\
 Data File : VN049747.D
 Acq On : 6 Jul 2018 18:47
 Operator : MD\SY
 Sample : IBLANK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLANK

Quant Time: Jul 06 22:55:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1147334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1887934	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1514715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	498667	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	786468	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
35) Dibromofluoromethane	7.59	113	673895	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	10.09	98	2500191	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	
62) 4-Bromofluorobenzene	12.40	95	670898	35.57	ug/l	0.00
Spiked Amount			Recovery	=	71.14%	

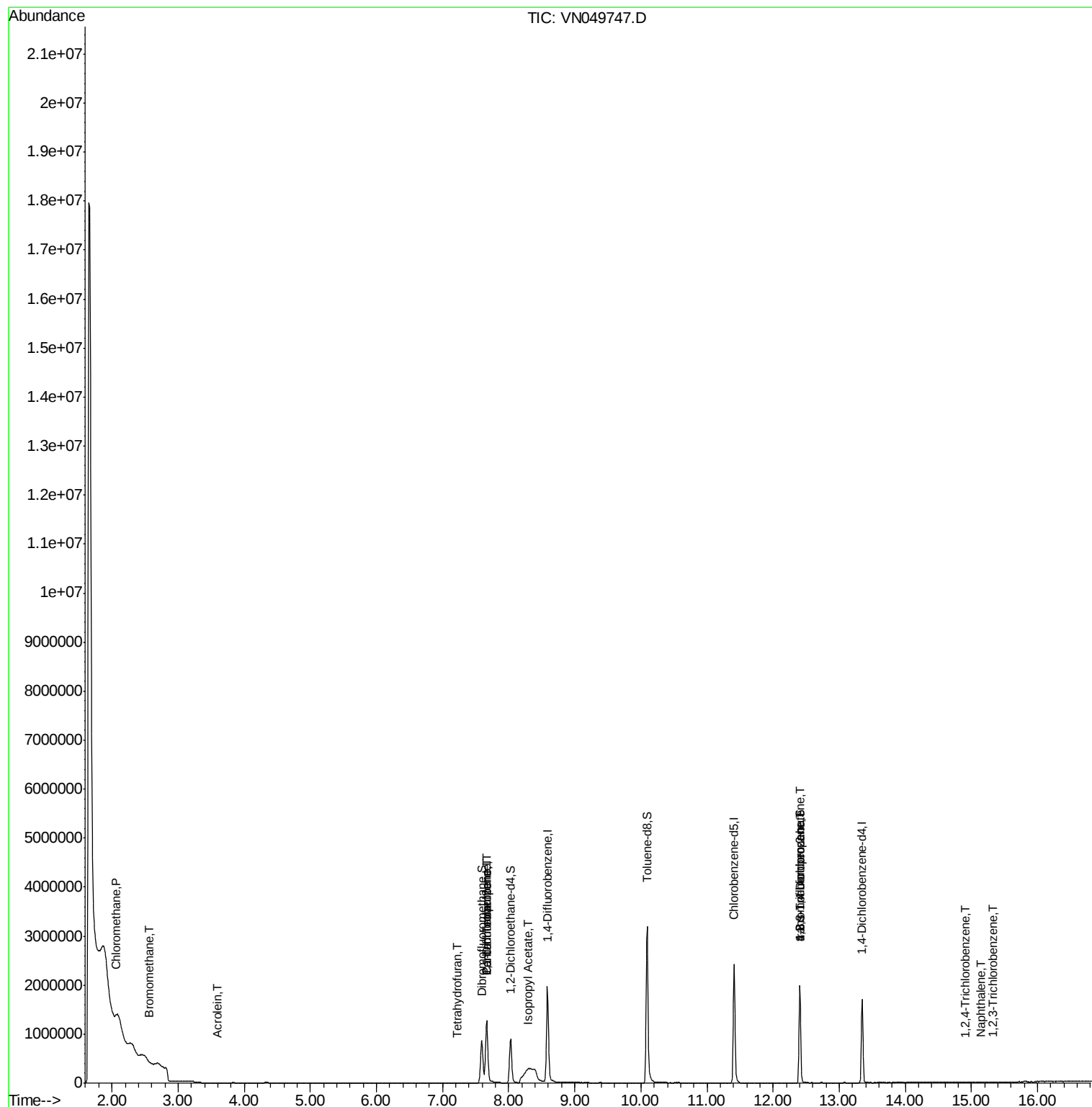
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	5500	0.34	ug/l #	87
5) Bromomethane	2.57	94	1862	0.20	ug/l #	49
13) Acrolein	3.59	56	542	0.67	ug/l #	1
16) Acetone	3.82	43	8355	Below	Cal	99
17) Carbon Disulfide	4.05	76	2018	Below	Cal #	75
18) Methyl Acetate	4.34	43	26608	Below	Cal	93
29) Tetrahydrofuran	7.22	42	936	0.29	ug/l #	57
36) 1,1-Dichloropropene	7.67	75	76650	3.61	ug/l #	47
38) Carbon Tetrachloride	7.67	117	99706	4.83	ug/l #	16
43) Isopropyl Acetate	8.28	43	410915	16.31	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.50	83	112	Below	Cal #	25
76) 1,2,3-Trichloropropane	12.40	75	329967	41.26	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	329967	140.13	ug/l #	13
87) 1,3-Dichlorobenzene	13.35	146	62	Below	Cal #	1
88) 1,4-Dichlorobenzene	13.36	146	262	Below	Cal #	25
91) 1,2-Dichlorobenzene	13.66	146	282	Below	Cal #	42
92) 1,2-Dibromo-3-Chloropropan	14.21	75	66	Below	Cal #	1
93) 1,2,4-Trichlorobenzene	14.91	180	110	2.42	ug/l	88
95) Naphthalene	15.14	128	559	4.07	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	32	1.65	ug/l #	12

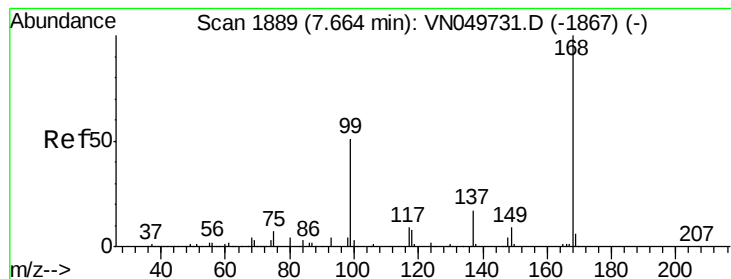
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IBLANK

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Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

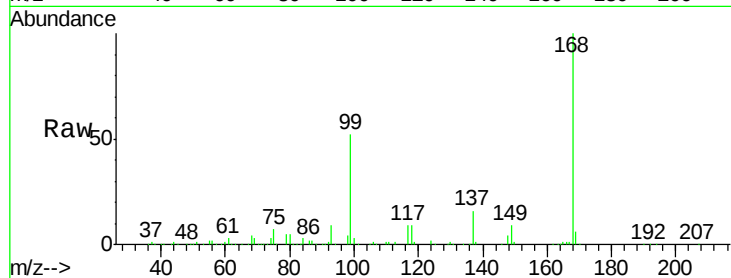
IBLANK

Tot Ion:168 Resp: 1147334

Ion Ratio Lower Upper

168 100

99 52.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

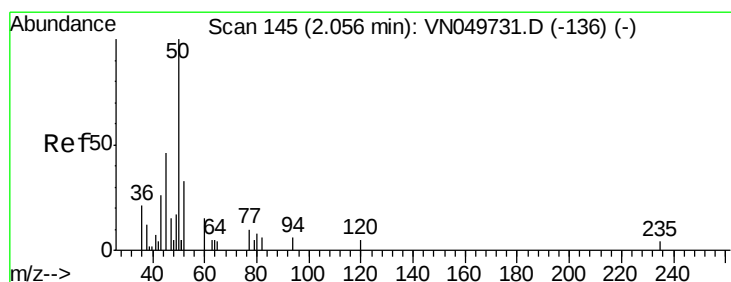
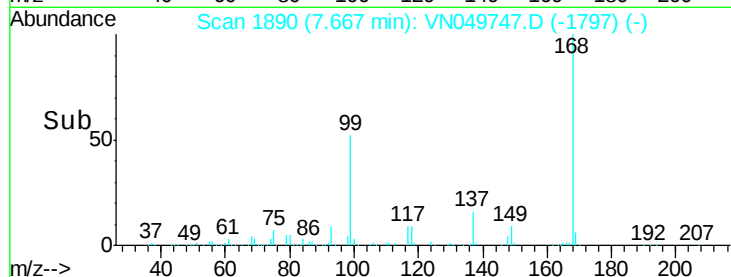
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.34 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049747.D

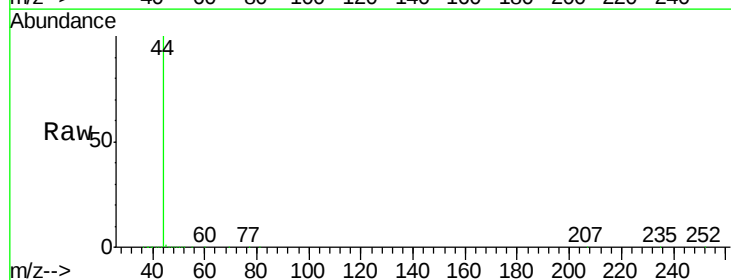
Acq: 6 Jul 2018 18:47

Tgt Ion: 50 Resp: 5500

Ion Ratio Lower Upper

50 100

52 39.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

4000

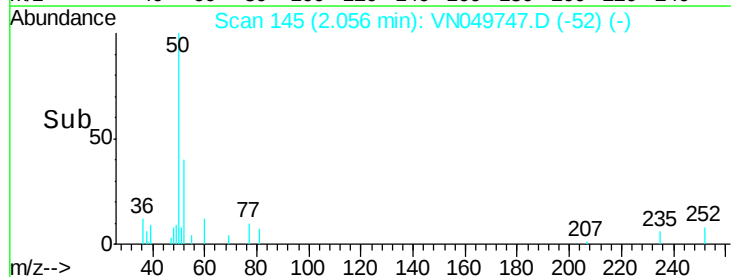
3000

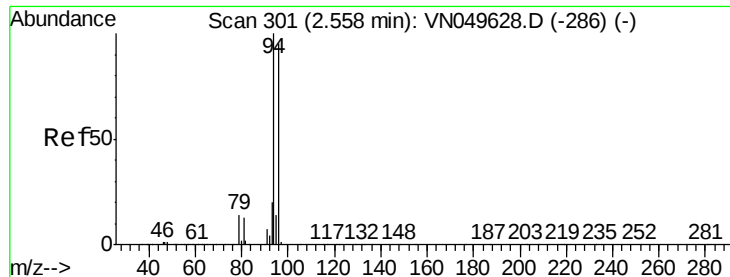
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.20 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

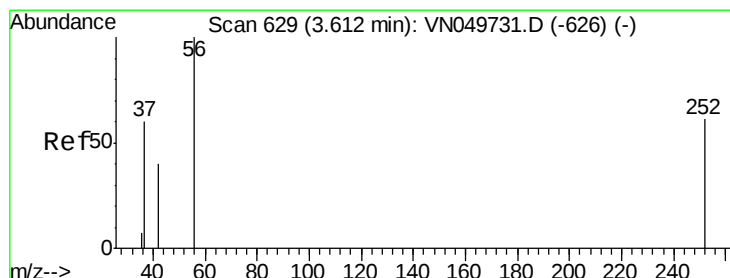
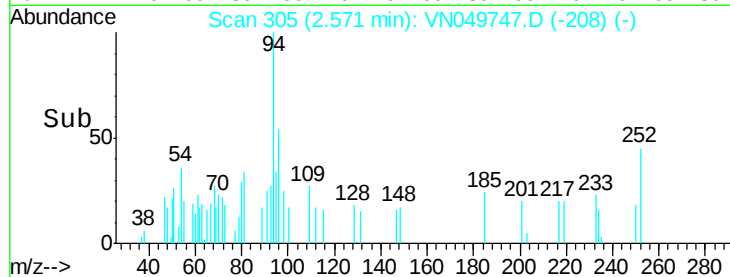
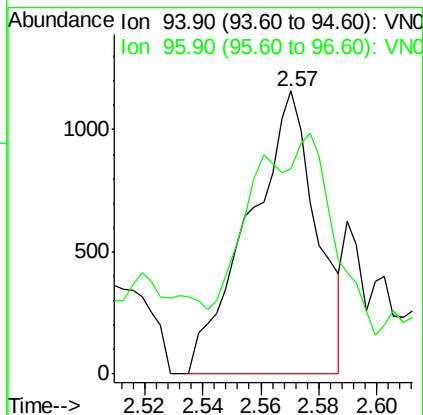
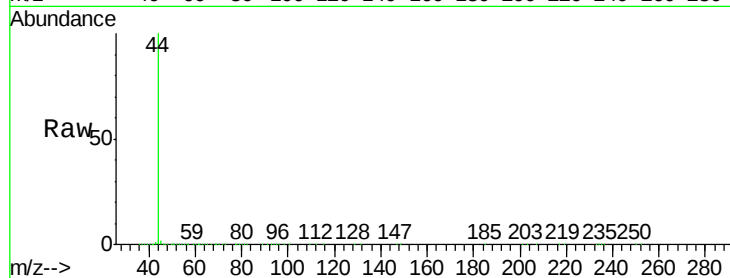
IBLANK

Tot Ion: 94 Resp: 1862

Ion Ratio Lower Upper

94 100

96 44.9 75.7 113.5#



#13

Acrolein

Concen: 0.67 ug/l

RT: 3.59 min Scan# 623

Delta R.T. -0.01 min

Lab File: VN049747.D

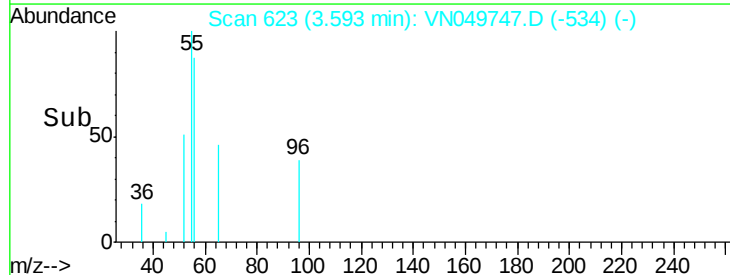
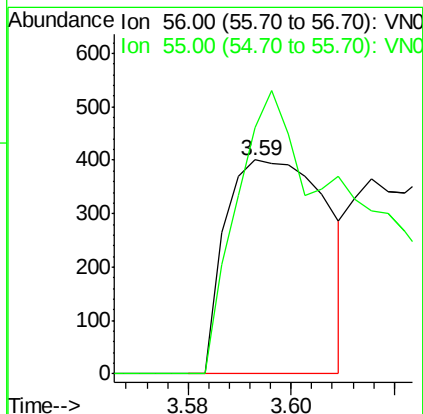
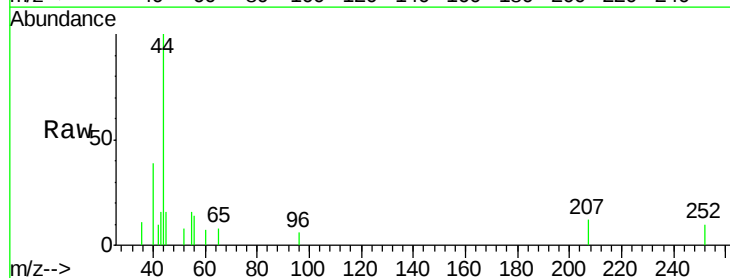
Acq: 6 Jul 2018 18:47

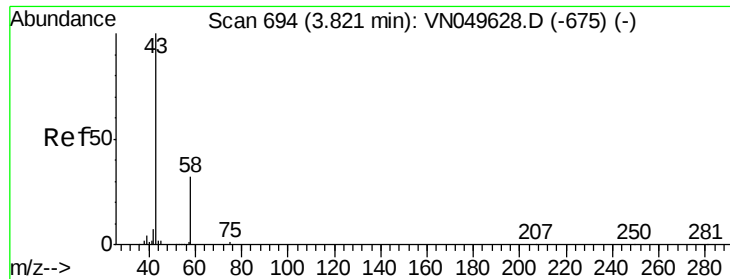
Tgt Ion: 56 Resp: 542

Ion Ratio Lower Upper

56 100

55 171.6 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

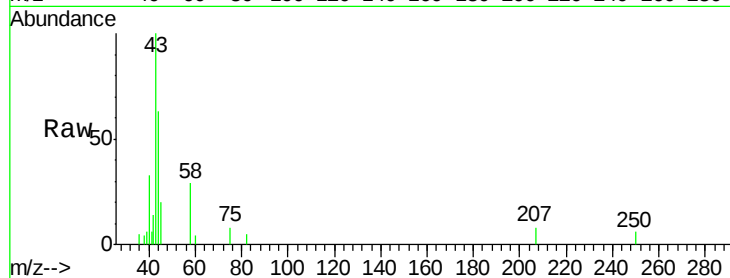
IBLANK

Tot Ion: 43 Resp: 8355

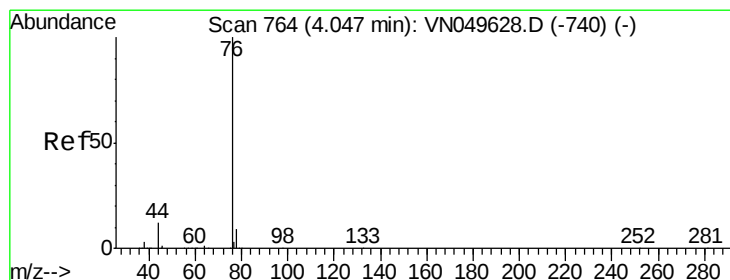
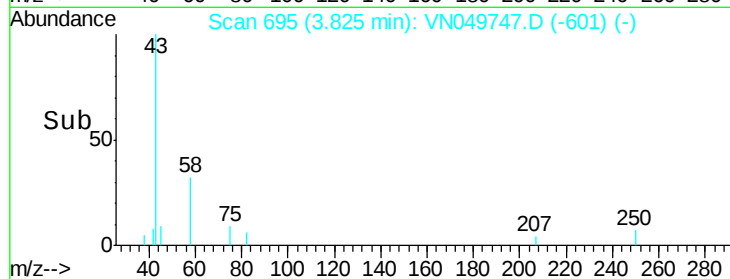
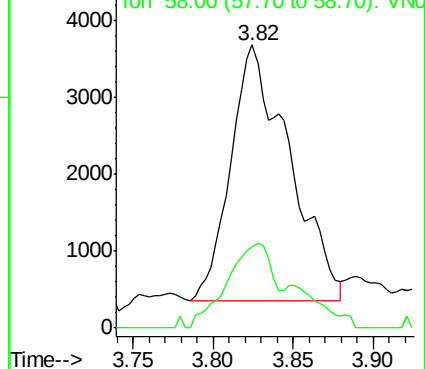
Ion Ratio Lower Upper

43 100

58 31.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049747.D (-601) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 766

Delta R.T. 0.01 min

Lab File: VN049747.D

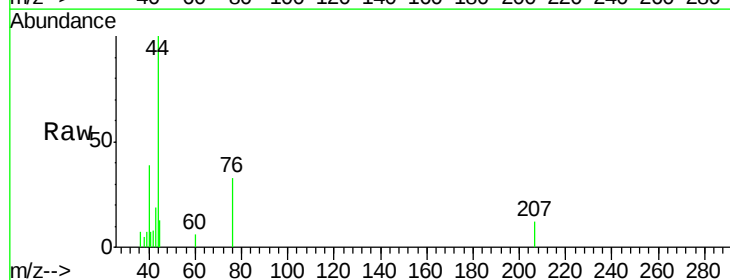
Acq: 6 Jul 2018 18:47

Tgt Ion: 76 Resp: 2018

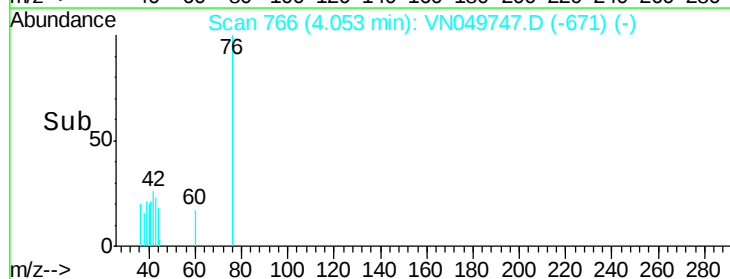
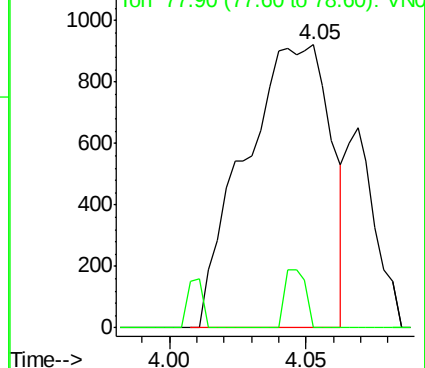
Ion Ratio Lower Upper

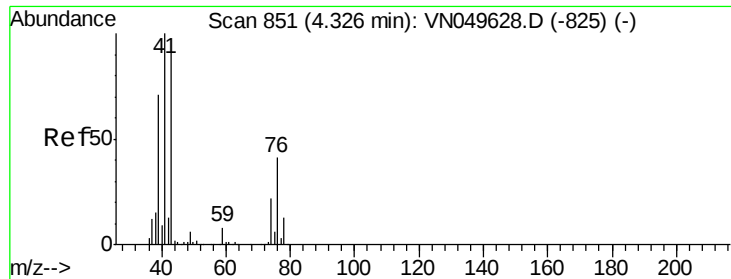
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049747.D (-671) (-)

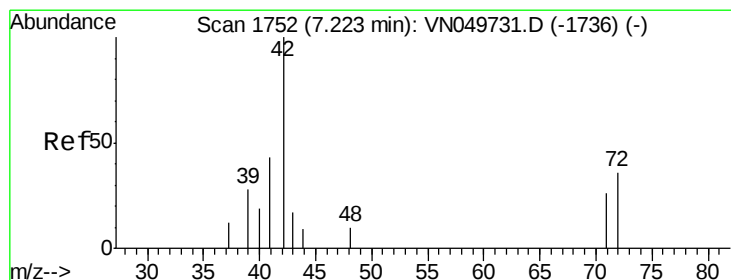
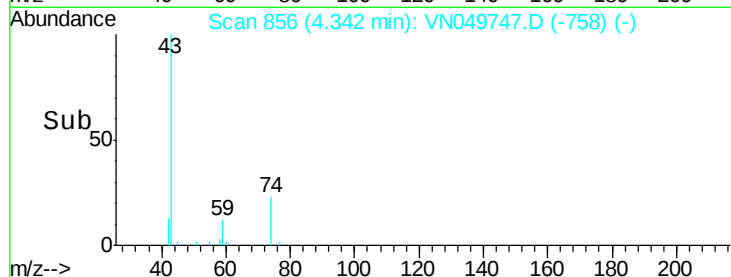
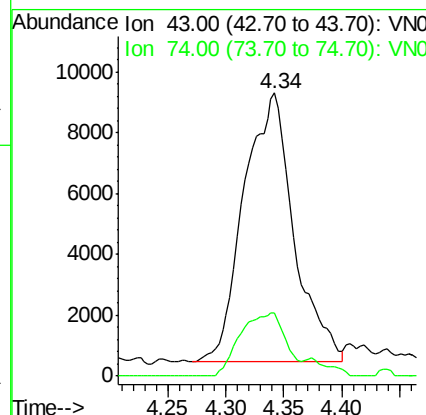
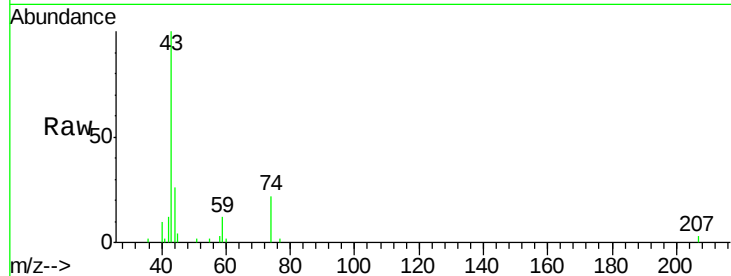




#18
Methvl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 856
Delta R.T. 0.02 min
Lab File: VN049747.D
Acq: 6 Jul 2018 18:47

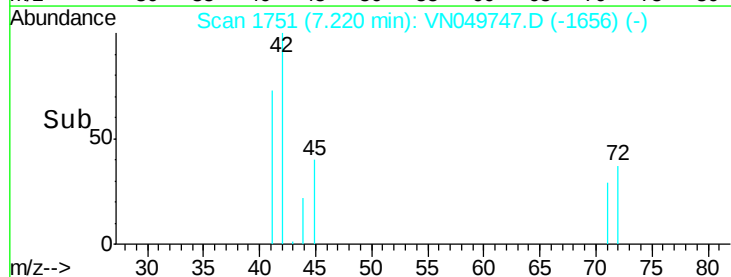
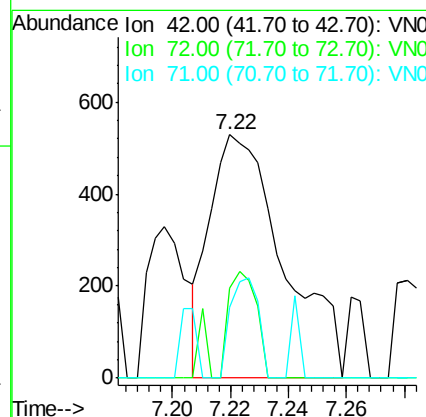
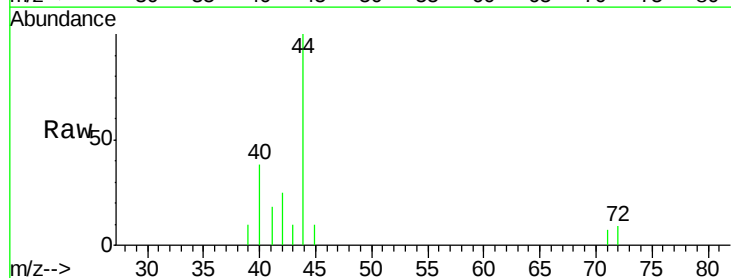
Instrument :
MSVOA_N
ClientSampled :
IBLANK

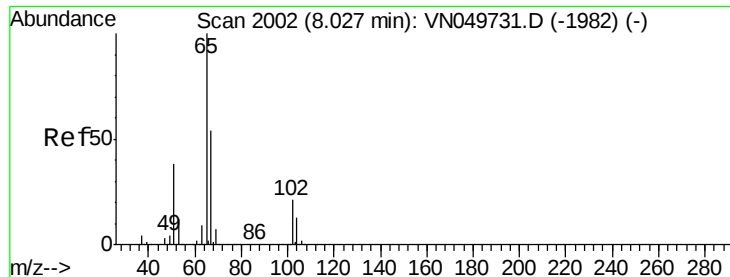
Tot Ion: 43 Resp: 26608
Ion Ratio Lower Upper
43 100
74 21.3 19.8 29.8



#29
Tetrahydrofuran
Concen: 0.29 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VN049747.D
Acq: 6 Jul 2018 18:47

Tgt Ion: 42 Resp: 936
Ion Ratio Lower Upper
42 100
72 16.5 35.6 53.4#
71 15.4 34.0 51.0#





#33

1,2-Dichloroethane-d4

Concen: 51.91 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampleId :

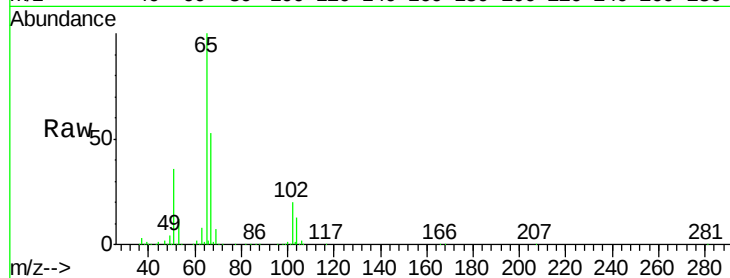
IBLANK

Tot Ion: 65 Resp: 786468

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049747.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049747.D (-1909) (-)

8.03

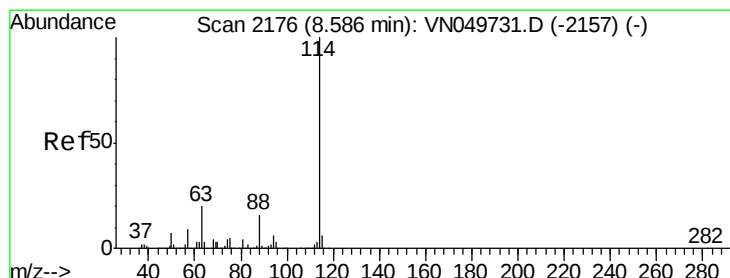
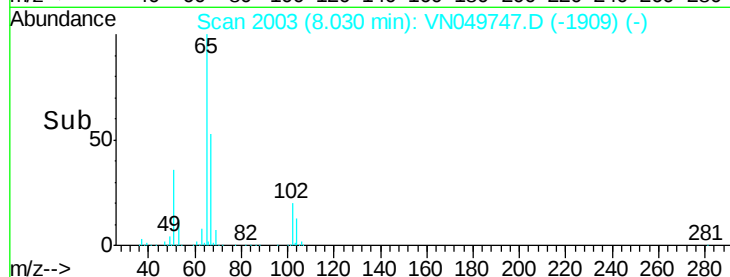
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

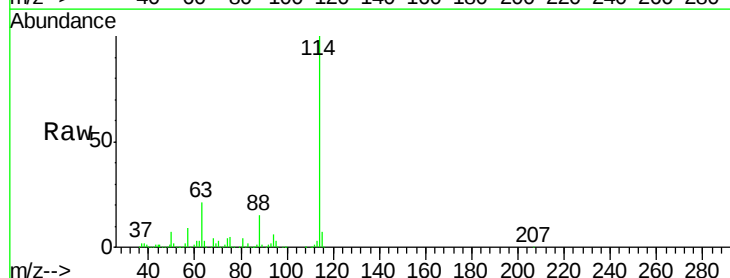
Tgt Ion: 114 Resp: 1887934

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.8

88 15.2 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049747.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049747.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049747.D (-2083) (-)

8.59

1200000

1000000

800000

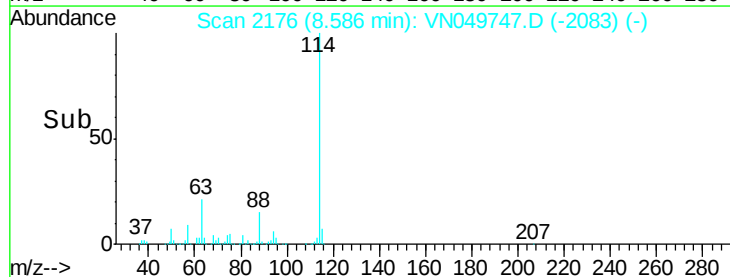
600000

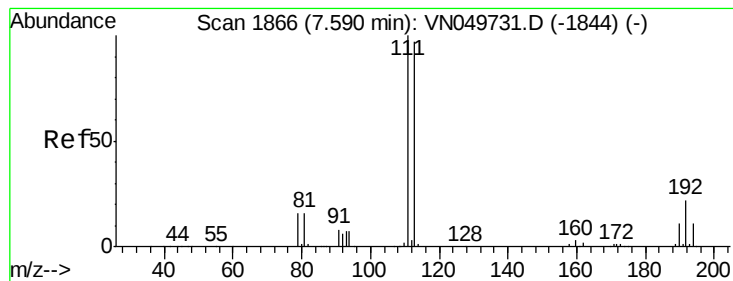
400000

200000

0

Time--> 8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 47.75 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

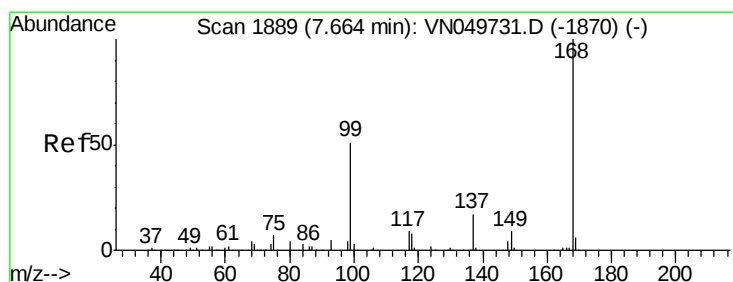
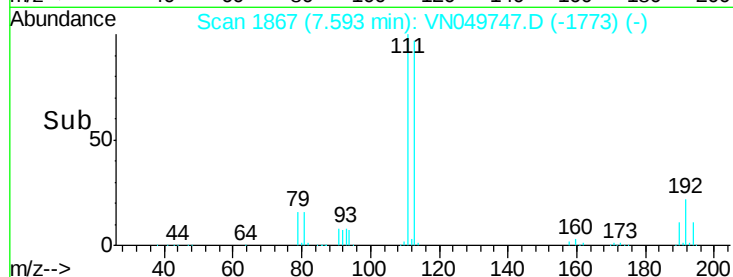
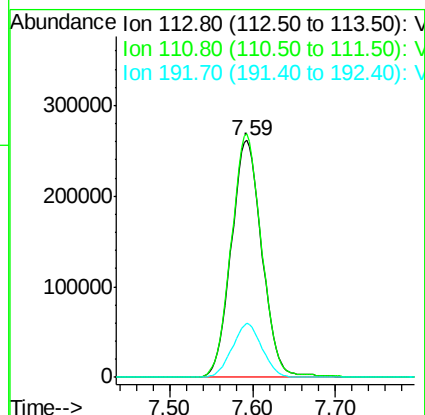
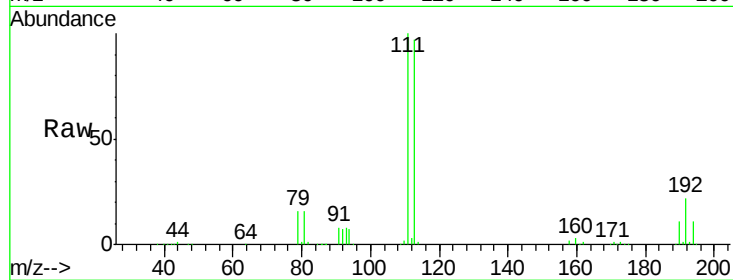
Tot Ion:113 Resp: 673895

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 22.1 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.61 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.12 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

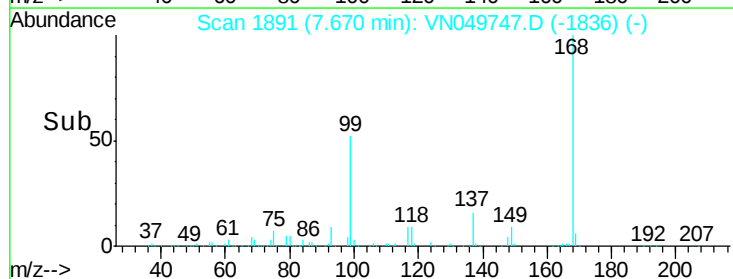
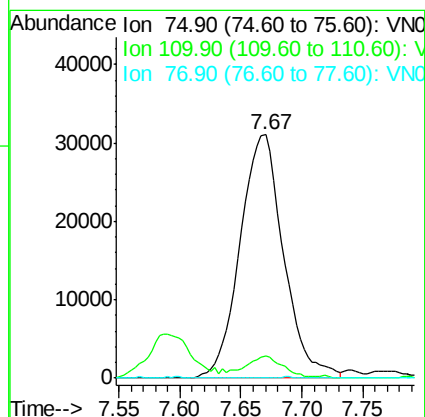
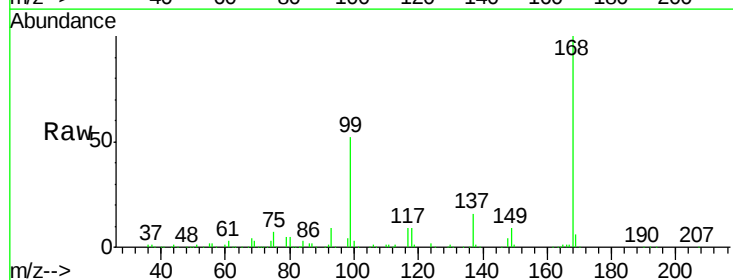
Tgt Ion: 75 Resp: 76650

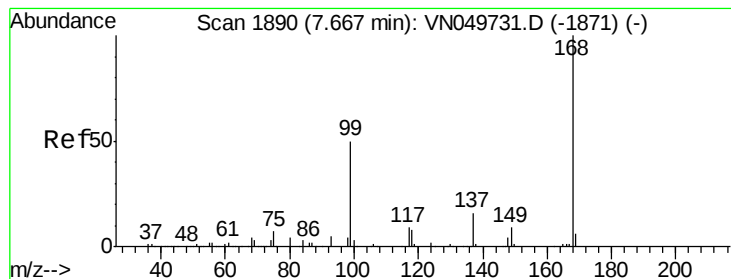
Ion Ratio Lower Upper

75 100

110 7.2 18.1 54.4#

77 0.1 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.83 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

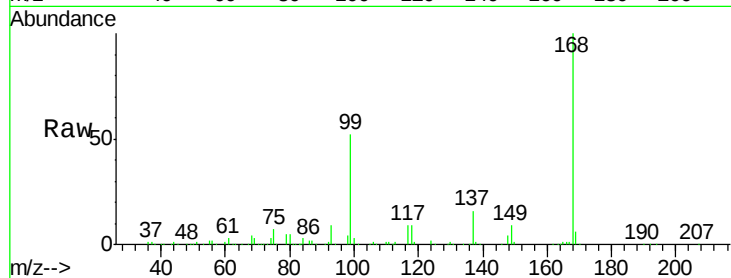
Tot Ion:117 Resp: 99706

Ion Ratio Lower Upper

117 100

119 6.2 77.2 115.8#

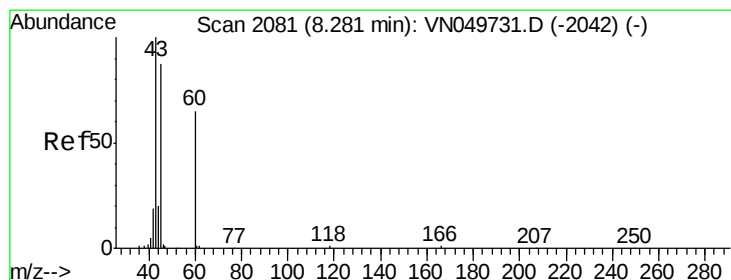
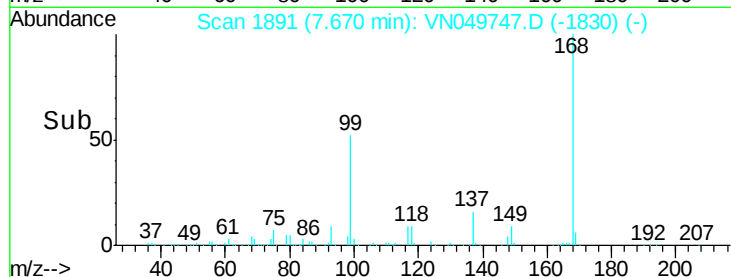
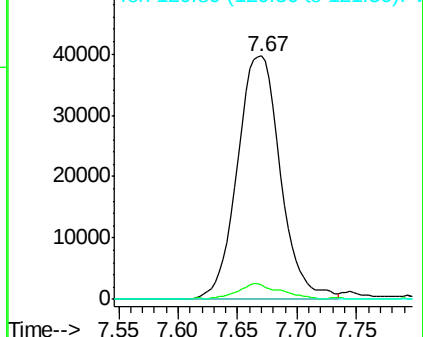
121 0.0 25.0 37.6#



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: 16.31 ug/l

RT: 8.28 min Scan# 2081

Delta R.T. 0.12 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

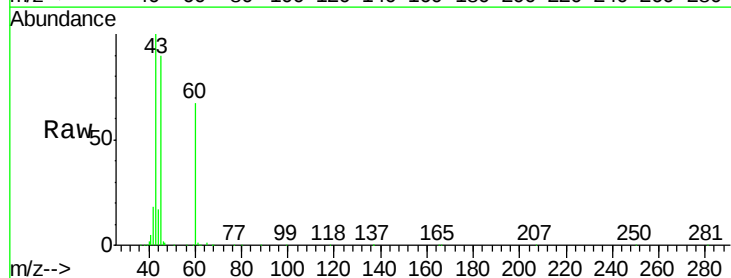
Tgt Ion: 43 Resp: 410915

Ion Ratio Lower Upper

43 100

61 0.3 14.9 22.3#

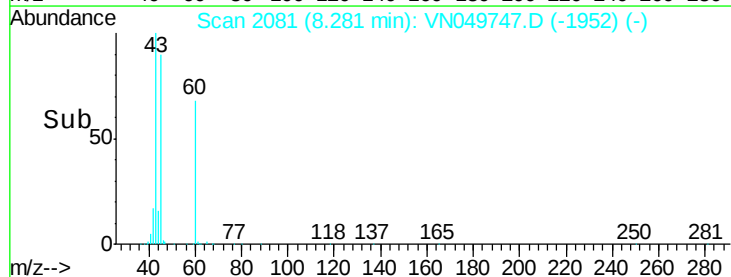
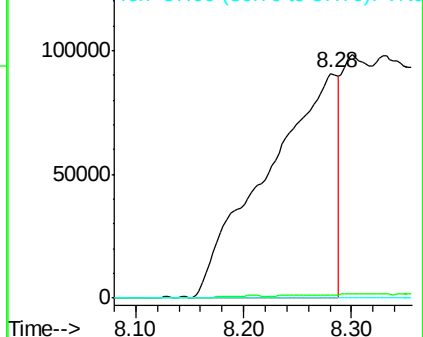
87 0.0 10.0 15.0#

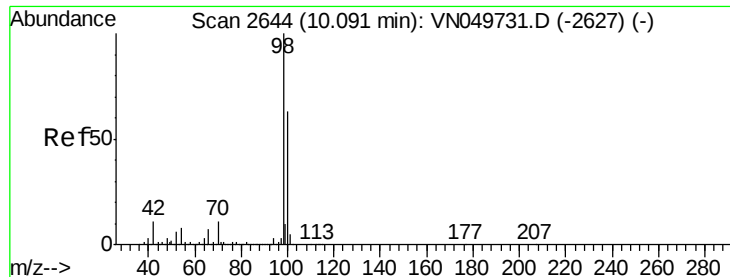


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 45.26 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

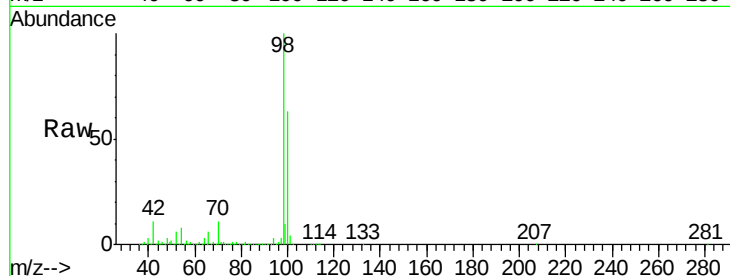
IBLANK

Tot Ion: 98 Resp: 2500191

Ion Ratio Lower Upper

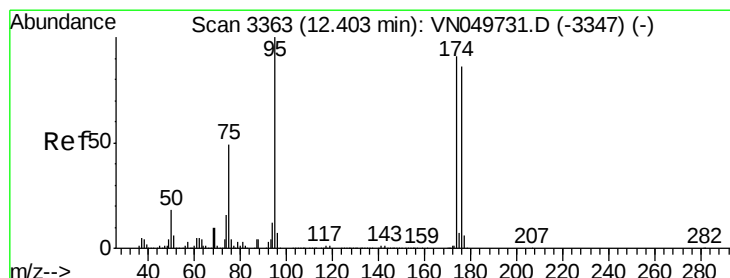
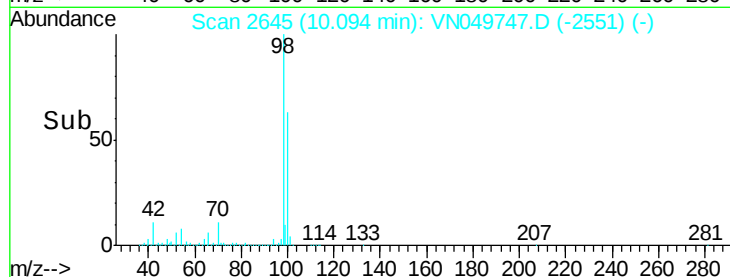
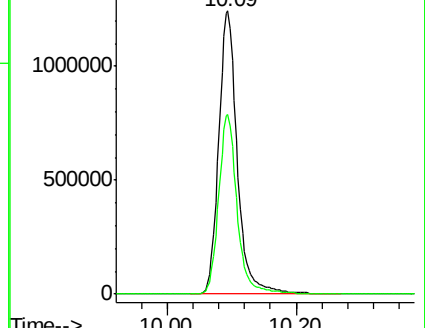
98 100

100 63.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049731.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN049731.D (-2627) (-)



#62

4-Bromofluorobenzene

Concen: 35.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

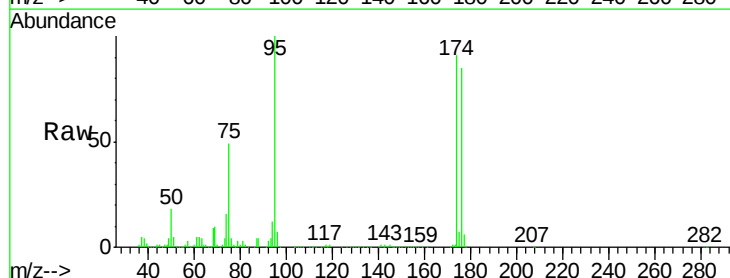
Tgt Ion: 95 Resp: 670898

Ion Ratio Lower Upper

95 100

174 91.8 0.0 179.6

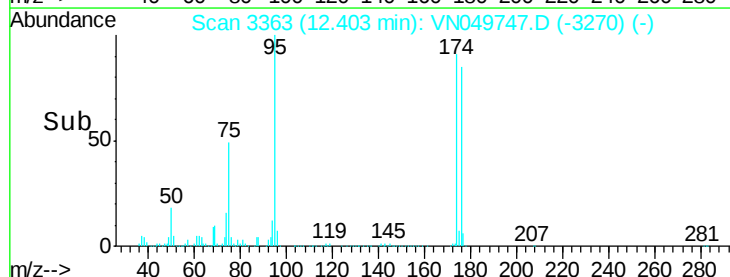
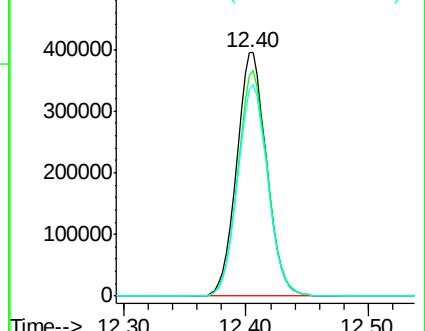
176 87.1 0.0 174.0

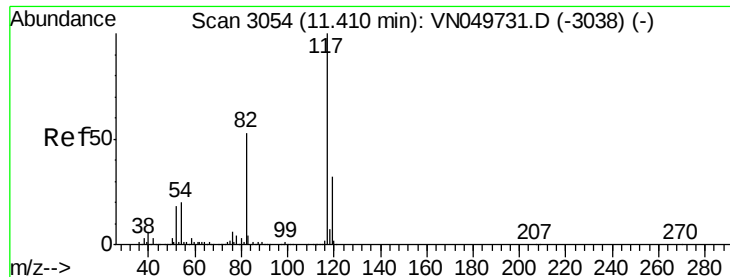


Abundance Ion 94.90 (94.60 to 95.60): VN049731.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049731.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049731.D (-3347) (-)





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

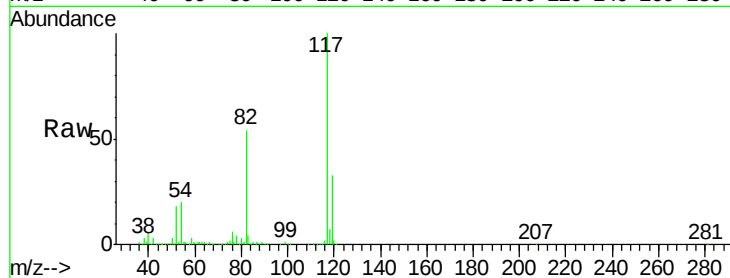
Tot Ion:117 Resp: 1514715

Ion Ratio Lower Upper

117 100

82 54.4 41.9 62.9

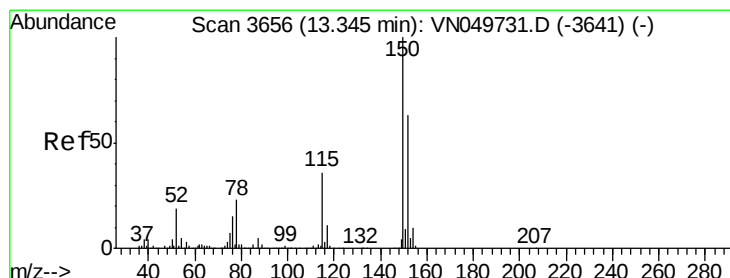
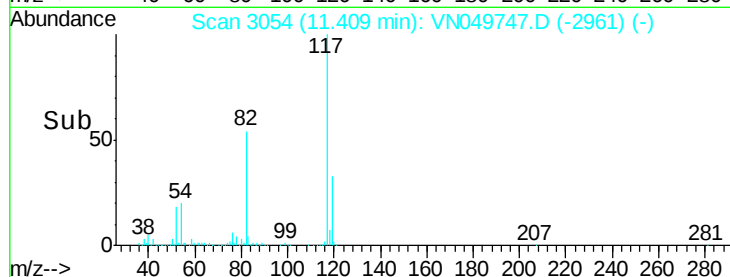
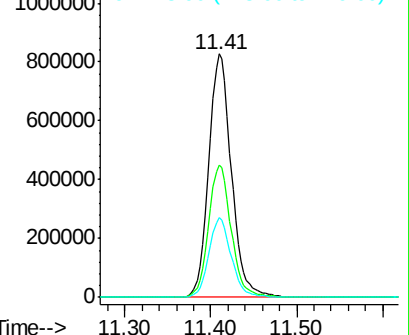
119 32.6 25.4 38.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

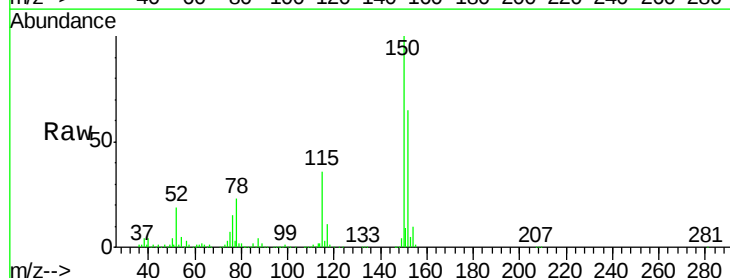
Tgt Ion:152 Resp: 498667

Ion Ratio Lower Upper

152 100

115 56.5 28.1 84.2

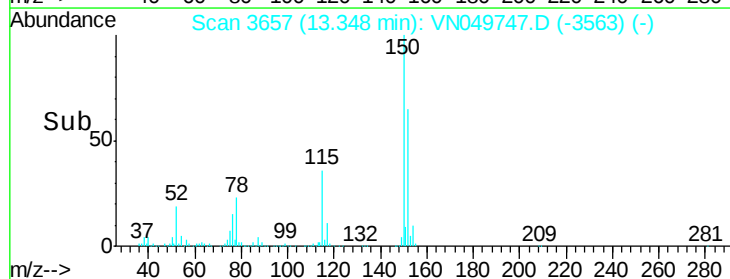
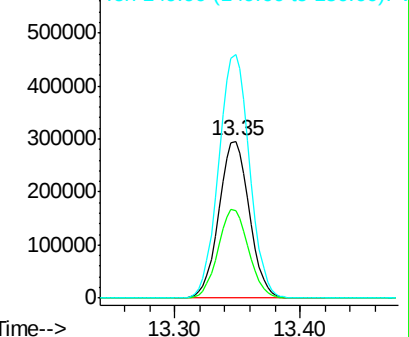
150 157.1 0.0 347.6

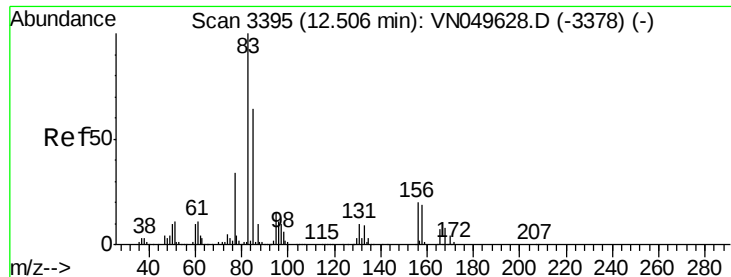


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

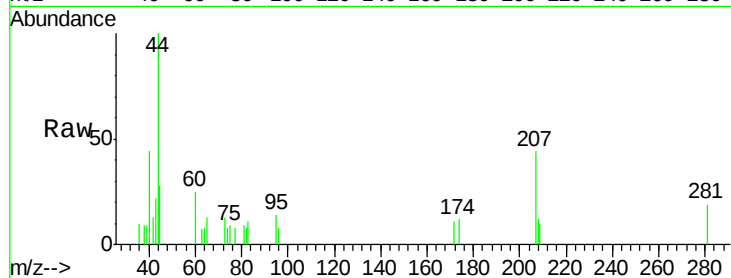
Tot Ion: 83 Resp: 112

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

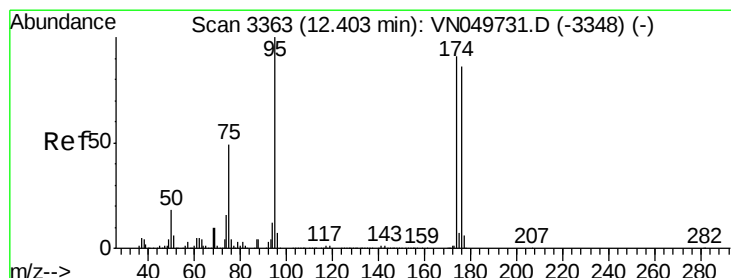
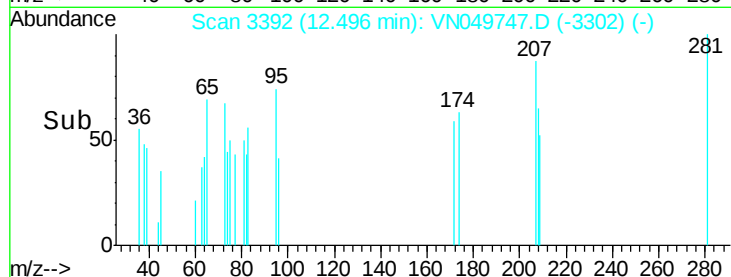
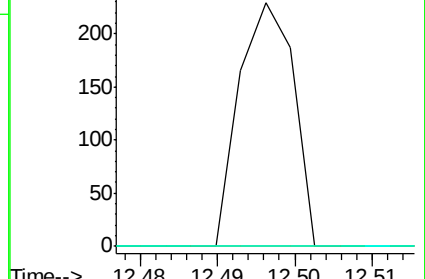
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 41.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049747.D

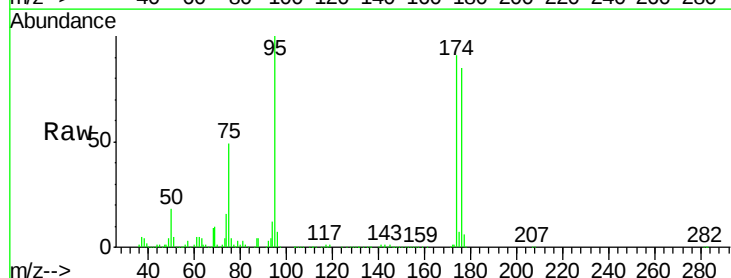
Acq: 6 Jul 2018 18:47

Tgt Ion: 75 Resp: 329967

Ion Ratio Lower Upper

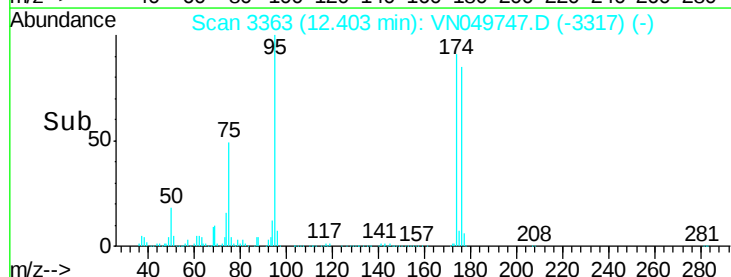
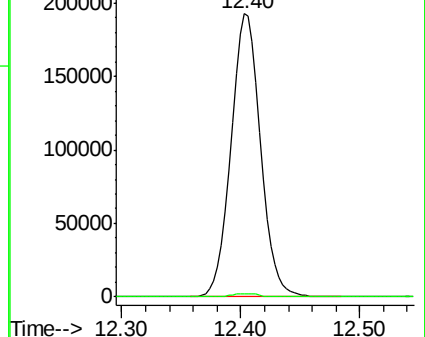
75 100

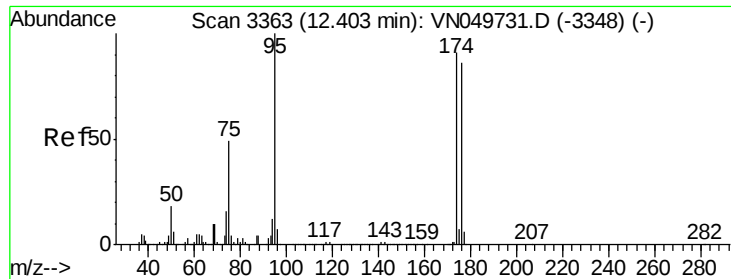
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 140.13 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

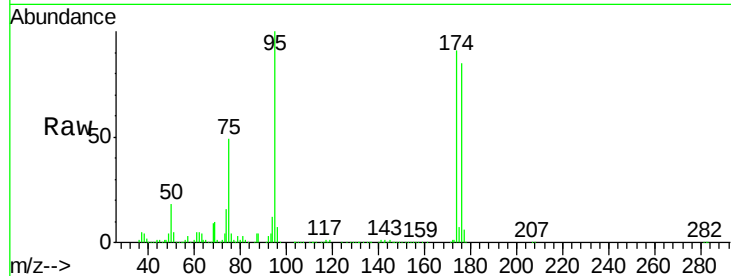
Tot Ion: 75 Resp: 329967

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

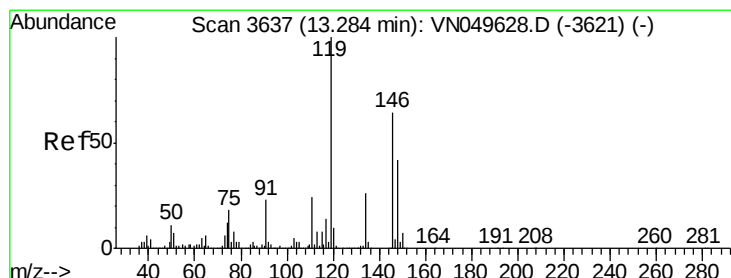
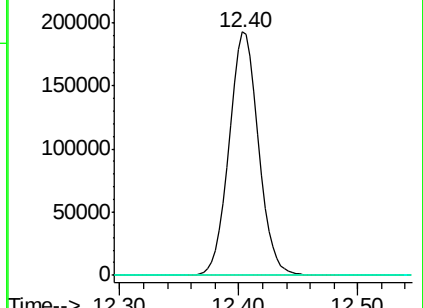
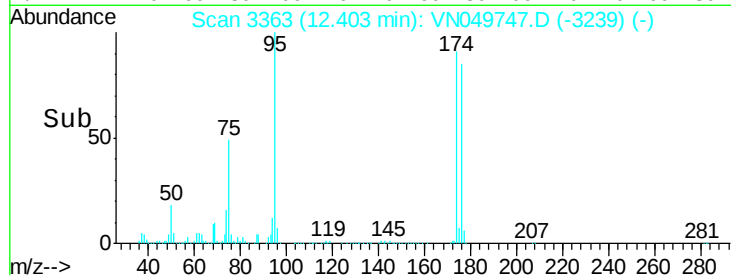
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049747.D (-3239) (-)

Ion 53.00 (52.70 to 53.70): VN049747.D (-3239) (-)

Ion 88.90 (88.60 to 89.60): VN049747.D (-3239) (-)



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.35 min Scan# 3657

Delta R.T. 0.06 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

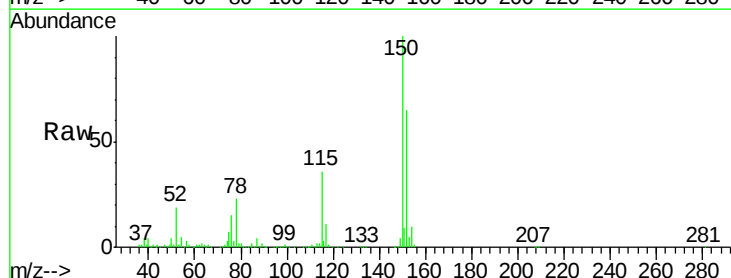
Tgt Ion: 146 Resp: 62

Ion Ratio Lower Upper

146 100

111 10091.9 19.0 57.0#

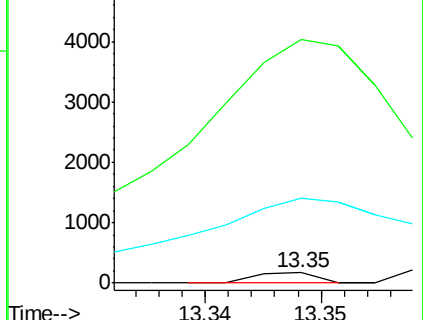
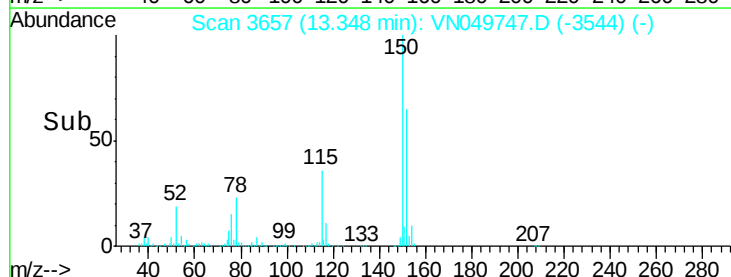
148 4167.7 32.5 97.5#

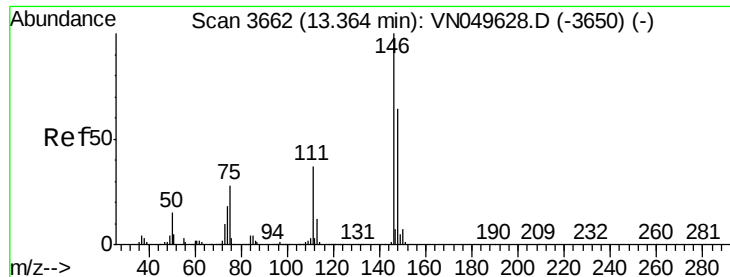


Abundance Ion 145.90 (145.60 to 146.60): VN049747.D (-3544) (-)

Ion 110.90 (110.60 to 111.60): VN049747.D (-3544) (-)

Ion 147.90 (147.60 to 148.60): VN049747.D (-3544) (-)

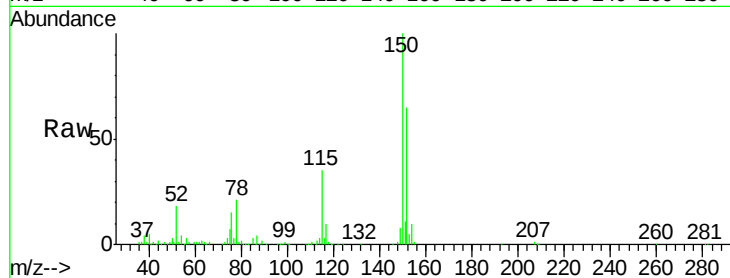




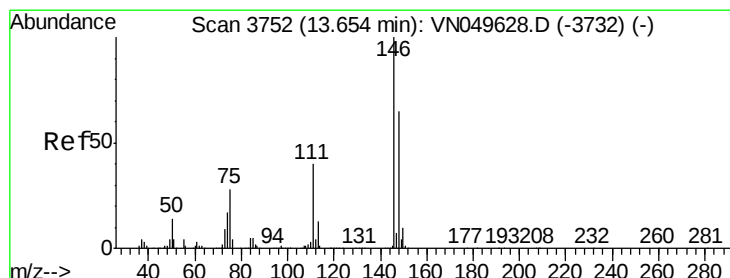
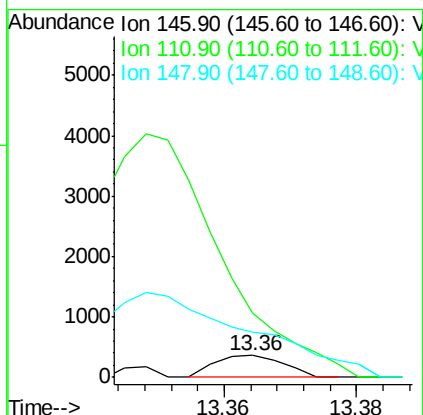
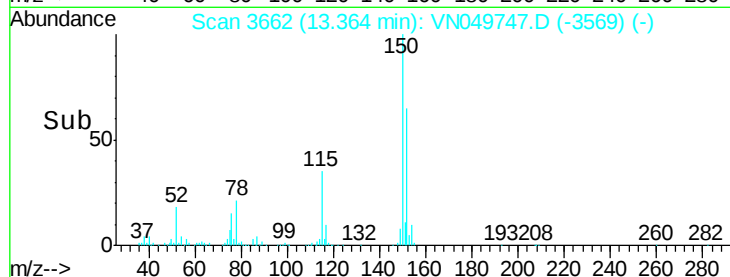
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049747.D
 Acq: 6 Jul 2018 18:47

Instrument :
 MSVOA_N
 ClientSampled :
 IBLANK

Tot Ion:146 Resp: 262
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

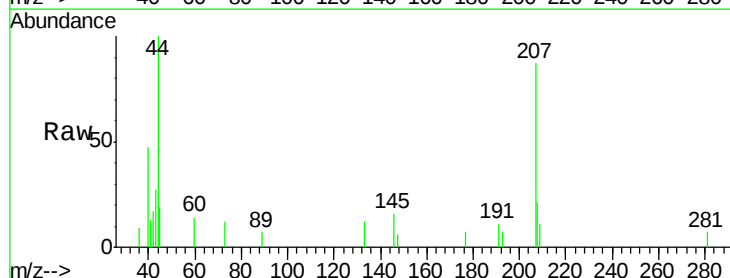


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

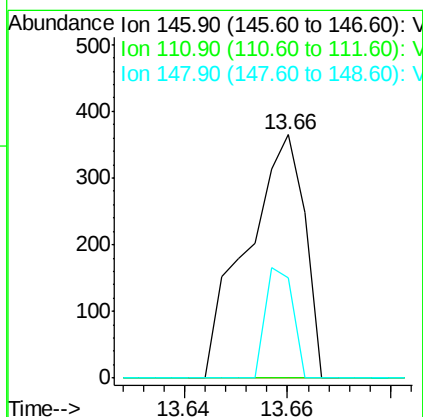
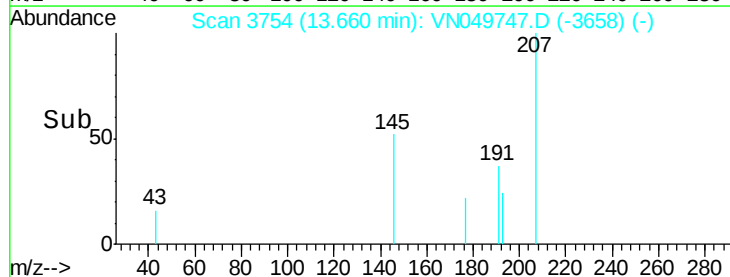


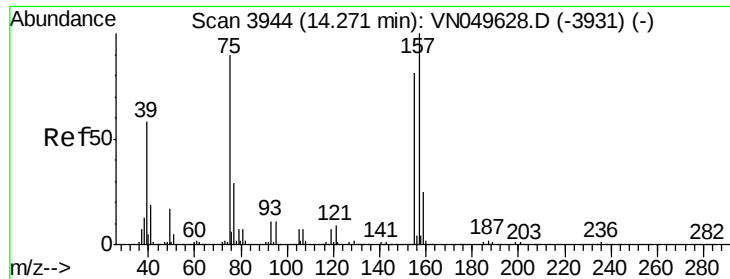
#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.66 min Scan# 3754
 Delta R.T. 0.01 min
 Lab File: VN049747.D
 Acq: 6 Jul 2018 18:47

Tgt Ion:146 Resp: 282
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 21.6 32.0 96.2#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.21 min Scan# 3926

Delta R.T. -0.06 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

Instrument :

MSVOA_N

ClientSampled :

IBLANK

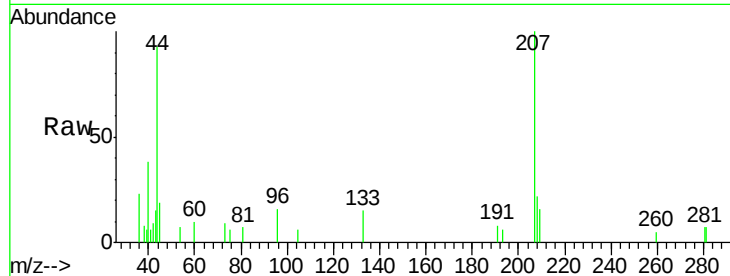
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

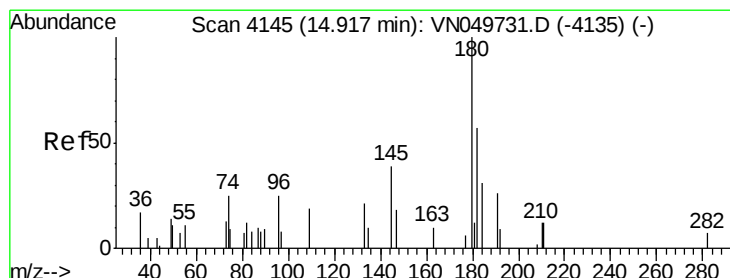
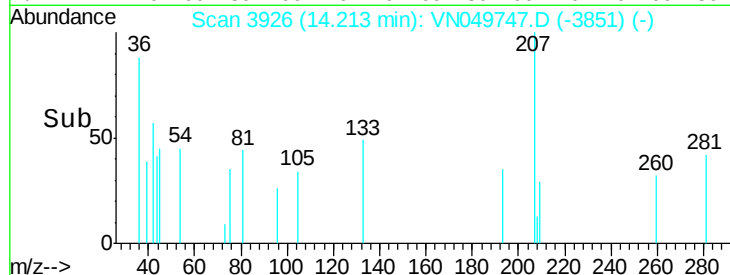
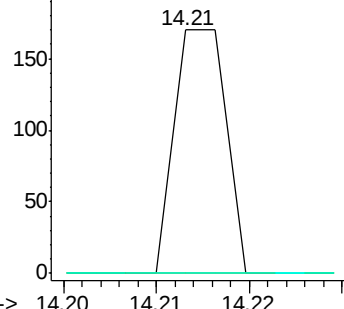
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049747.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049747.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049747.D (-3851) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.42 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049747.D

Acq: 6 Jul 2018 18:47

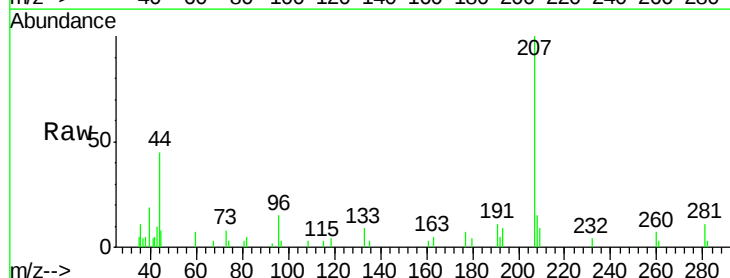
Tgt Ion: 180 Resp: 110

Ion Ratio Lower Upper

180 100

182 109.1 47.3 141.9

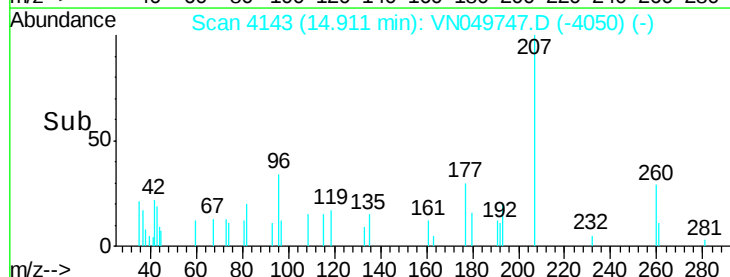
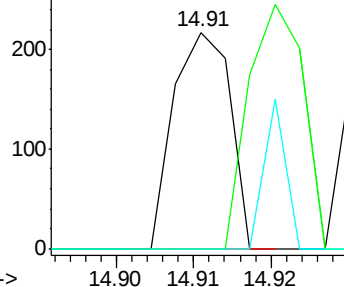
145 26.4 14.4 43.0

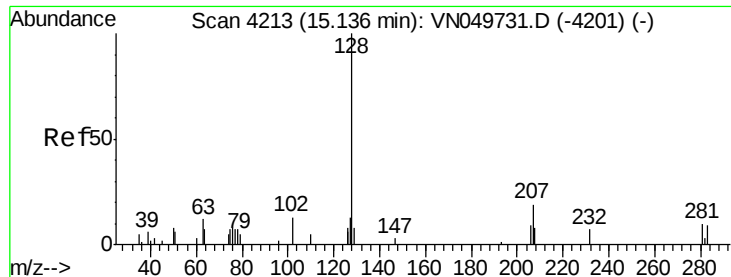


Abundance Ion 179.80 (179.50 to 180.50): VN049747.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049747.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049747.D (-4050) (-)

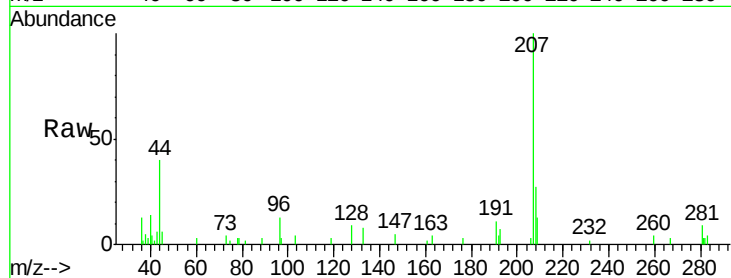




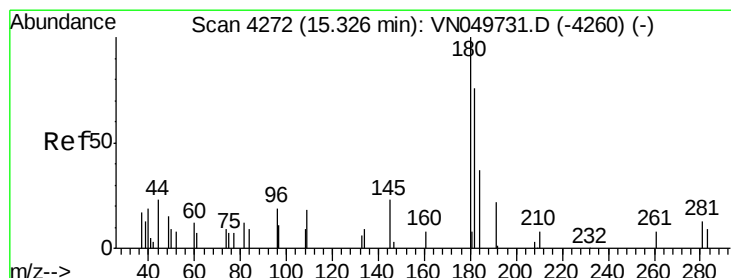
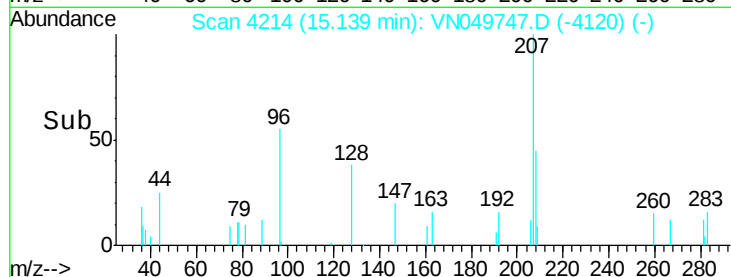
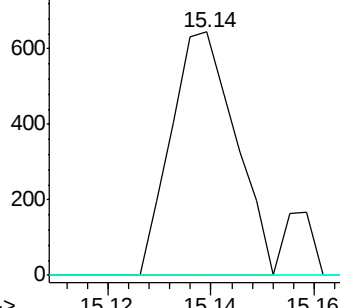
#95
Naphthalene
Concen: 4.07 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049747.D
Acq: 6 Jul 2018 18:47

Instrument :
MSVOA_N
ClientSampled :
IBLANK

Tot Ion:128 Resp: 559
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.6 13.0#

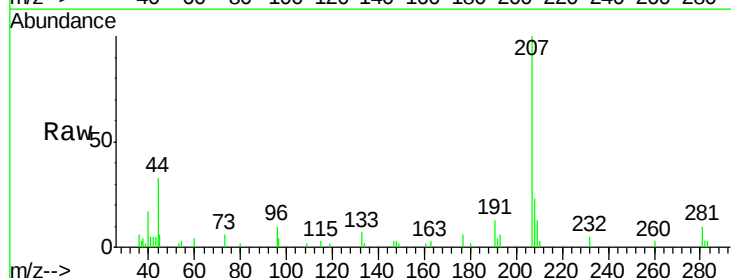


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.65 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. -0.00 min
Lab File: VN049747.D
Acq: 6 Jul 2018 18:47

Tgt Ion:180 Resp: 32
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 15.2 45.6#



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

