

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082918\
 Data File : VN050948.D
 Acq On : 29 Aug 2018 14:04
 Operator : MD\SY
 Sample : PB112452ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#04

Quant Time: Aug 30 01:01:54 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	589091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	979178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	823326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287242	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	384856	54.27	ug/l	0.00
Spiked Amount			Recovery	=	108.54%	
35) Dibromofluoromethane	7.59	113	366254	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	
50) Toluene-d8	10.09	98	1302705	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	
62) 4-Bromofluorobenzene	12.40	95	360734	37.27	ug/l	0.00
Spiked Amount			Recovery	=	74.54%	

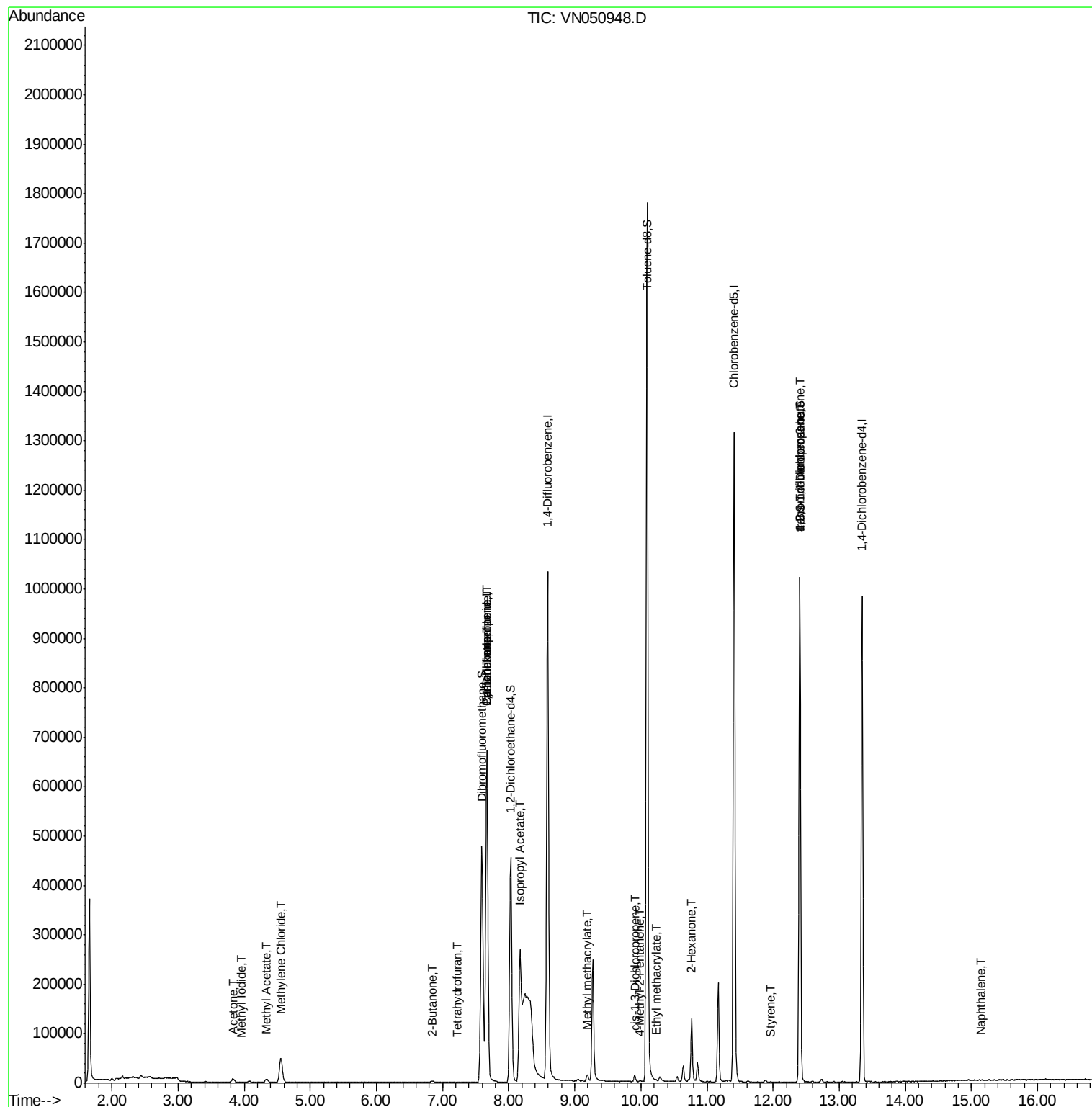
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2456	Below Cal	#	76
10) Methyl Iodide	3.96	142	423	6.40	ug/l #	43
16) Acetone	3.83	43	13844	1.21	ug/l	99
18) Methyl Acetate	4.34	43	14604	2.18	ug/l	96
20) Methylene Chloride	4.55	84	39828	4.98	ug/l	99
25) 2-Butanone	6.86	43	2416	0.85	ug/l #	84
29) Tetrahydrofuran	7.22	42	871	0.53	ug/l #	63
31) Cyclohexane	7.67	56	10450	1.32	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39449	3.41	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51773	4.43	ug/l #	17
43) Isopropyl Acetate	8.17	43	351686	30.82	ug/l #	91
48) Methyl methacrylate	9.18	41	8440	1.45	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	1888	0.28	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	2585	0.20	ug/l #	63
56) Ethyl methacrylate	10.23	69	2476	2.59	ug/l #	80
59) 2-Hexanone	10.77	43	17822	3.93	ug/l #	59
70) Styrene	11.96	104	344	1.29	ug/l #	33
75) 1,1,2,2-Tetrachloroethane	12.40	83	138	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	166946	33.18	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166946	112.18	ug/l #	15
95) Naphthalene	15.15	128	531	5.44	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# 1891

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

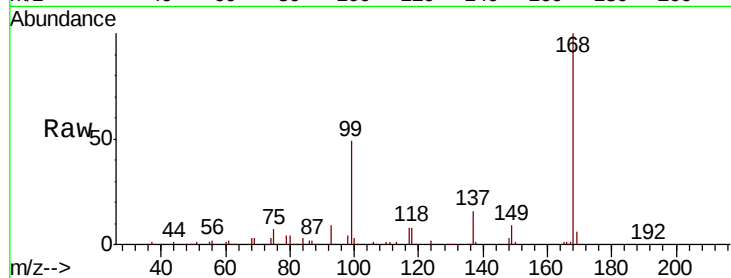
PB112452ZHE#04

Tot Ion:168 Resp: 589091

Ion Ratio Lower Upper

168 100

99 48.6 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

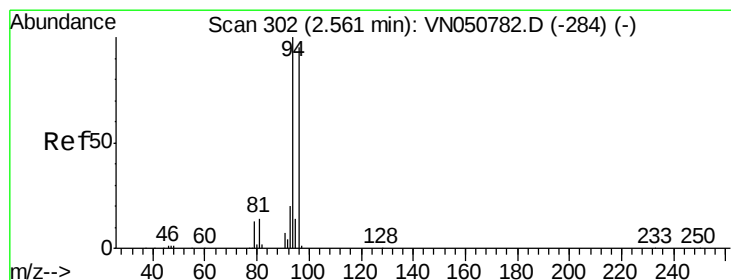
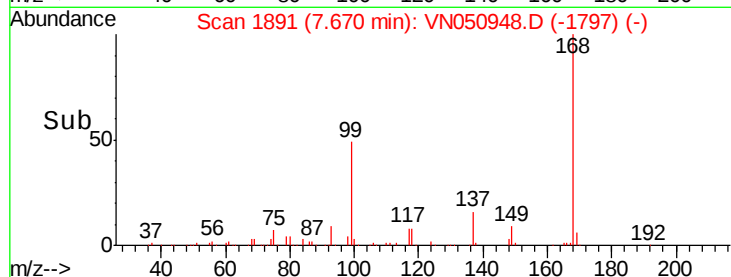
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050948.D

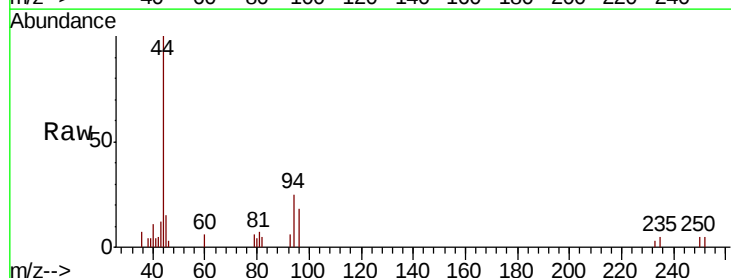
Acq: 29 Aug 2018 14:04

Tgt Ion: 94 Resp: 2456

Ion Ratio Lower Upper

94 100

96 71.5 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

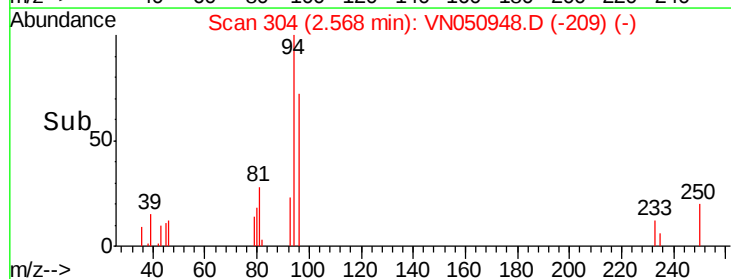
1500

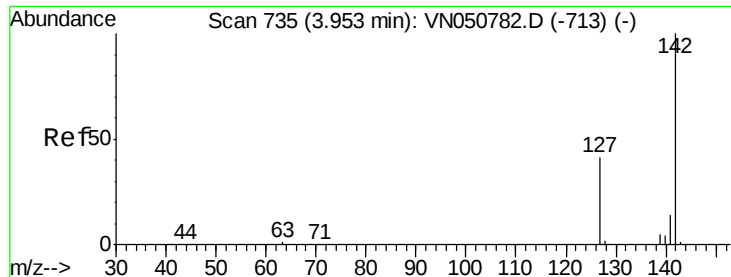
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500

0

Time-->

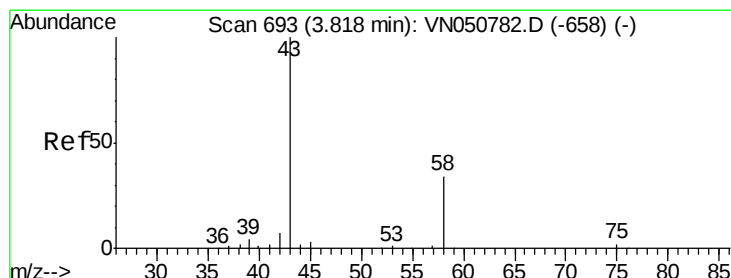
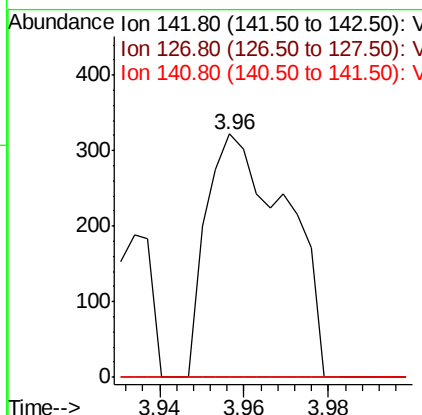
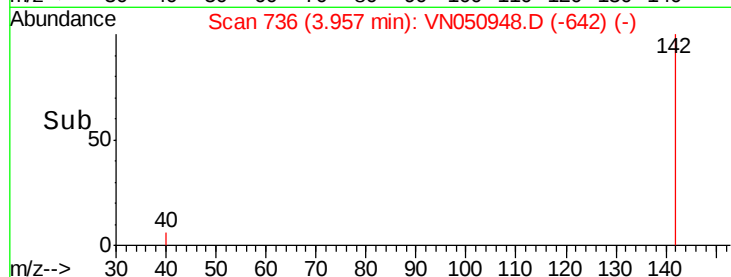
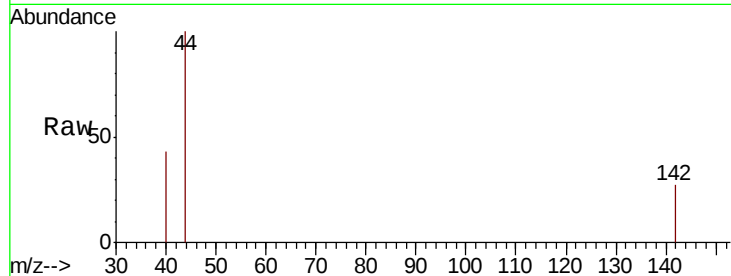




#10
Methvl Iodide
Concen: 6.40 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

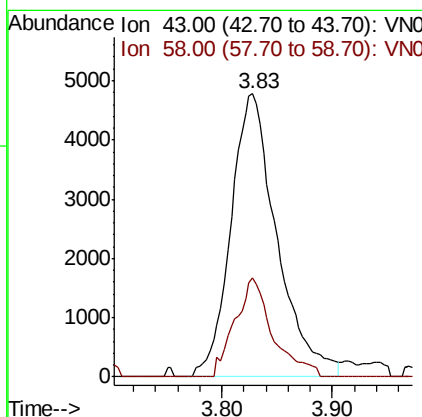
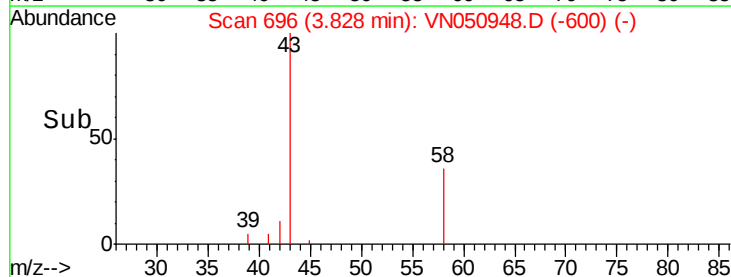
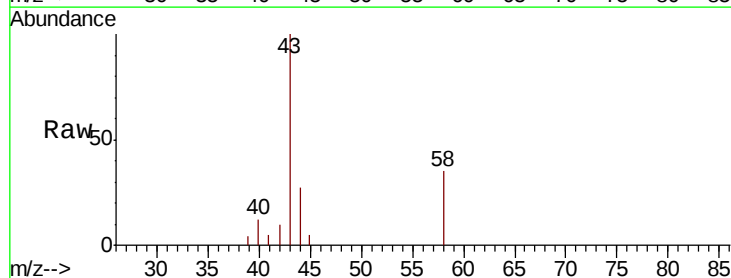
Instrument :
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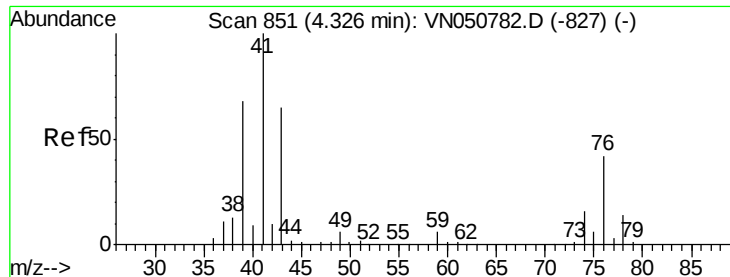
Tot Ion:142 Resp: 423
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 1.21 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

Tgt Ion: 43 Resp: 13844
Ion Ratio Lower Upper
43 100
58 34.8 27.2 40.8





#18

Methyl Acetate

Concen: 2.18 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

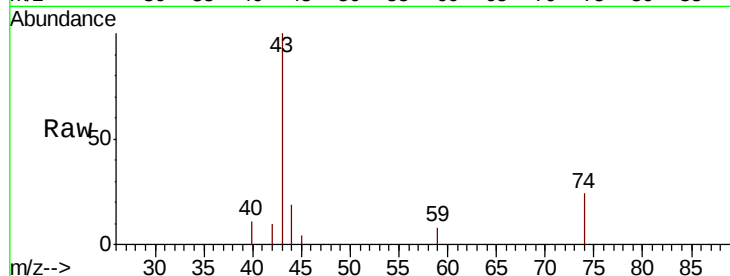
PB112452ZHE#04

Tot Ion: 43 Resp: 14604

Ion Ratio Lower Upper

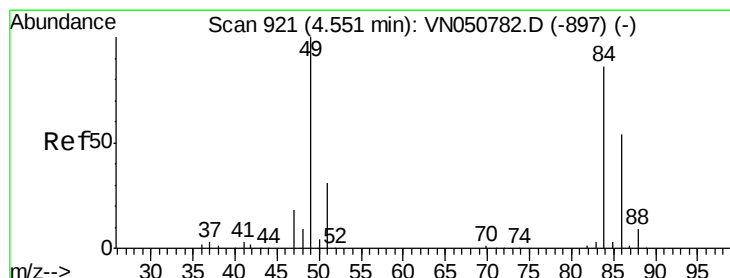
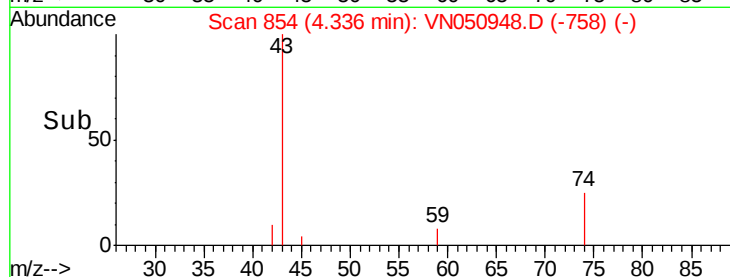
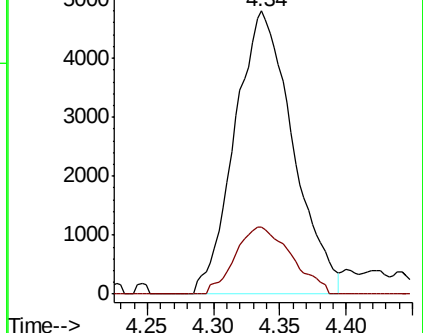
43 100

74 23.0 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN050948.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN050948.D (-758) (-)



#20

Methylene Chloride

Concen: 4.98 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Tgt Ion: 84 Resp: 39828

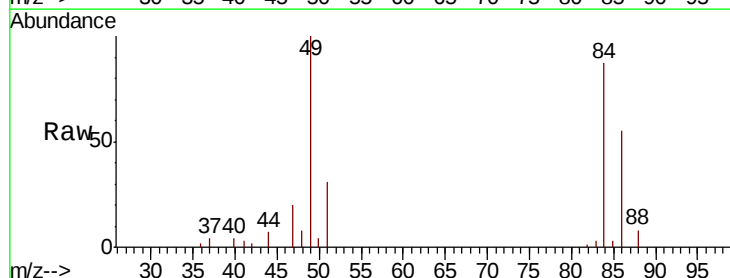
Ion Ratio Lower Upper

84 100

49 115.4 93.2 139.8

51 36.3 29.0 43.6

86 63.9 49.8 74.8

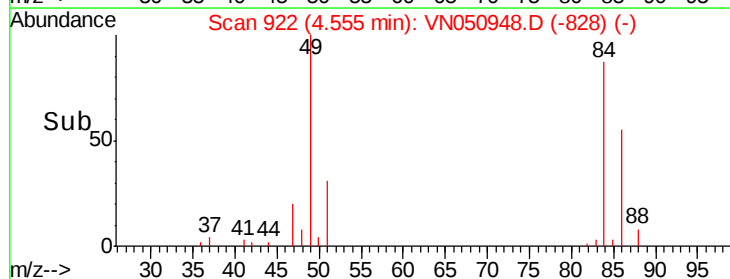
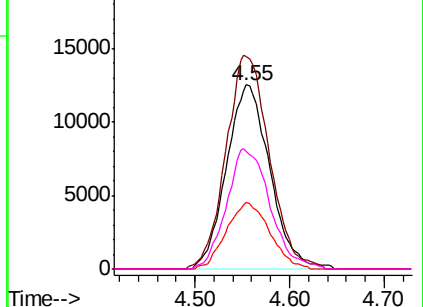


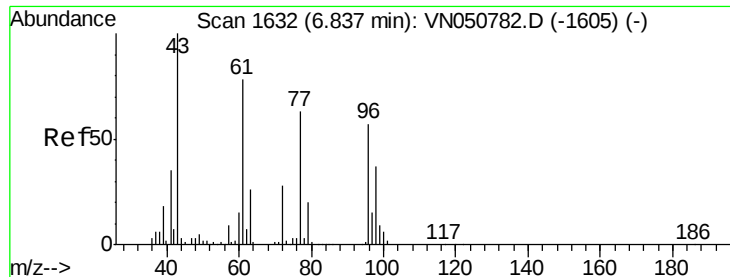
Abundance Ion 83.90 (83.60 to 84.60): VN050948.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN050948.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN050948.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN050948.D (-828) (-)

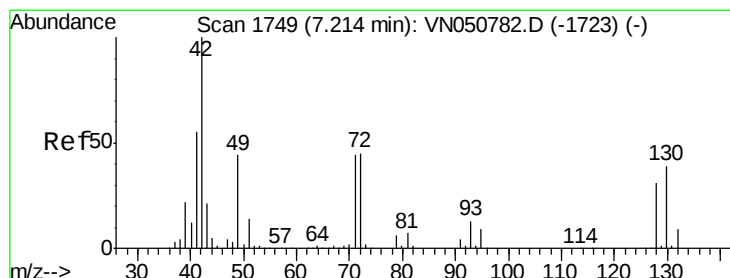
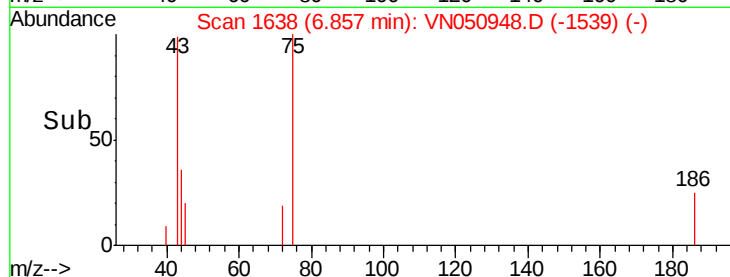
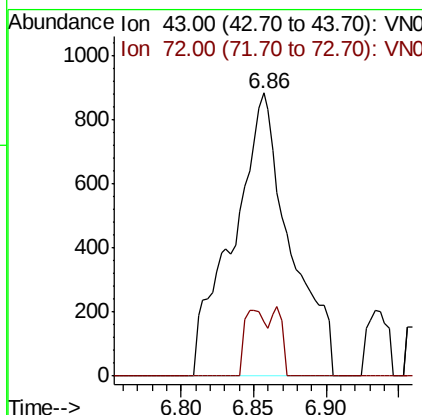
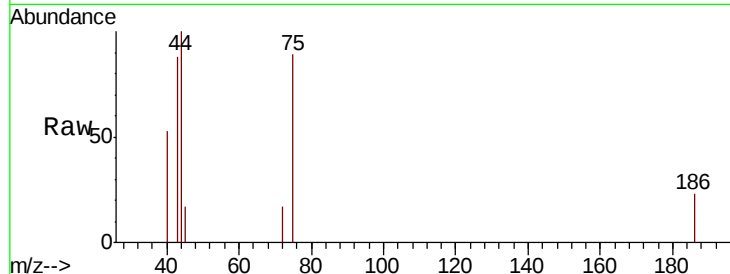




#25
 2-Butanone
 Concen: 0.85 ug/l
 RT: 6.86 min Scan# 1638
 Delta R.T. 0.02 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

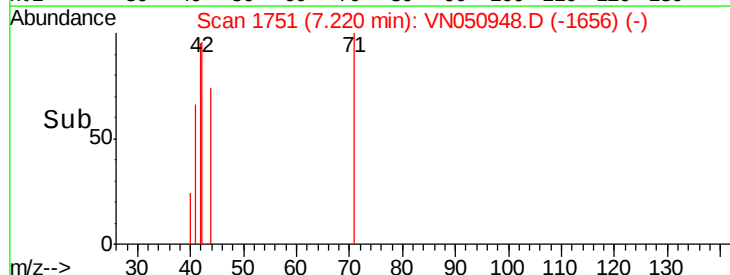
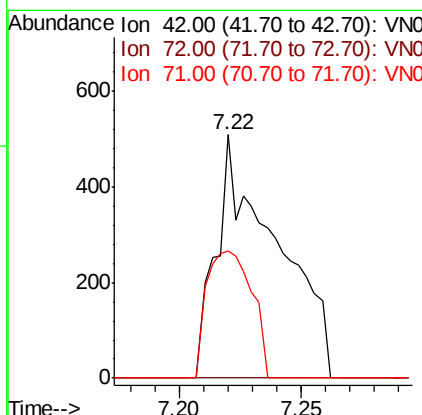
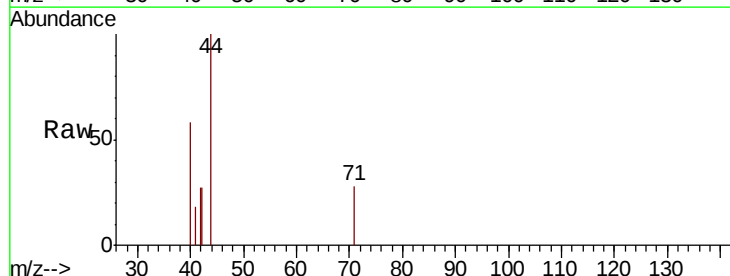
Instrument :
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 PB112452ZHE#04

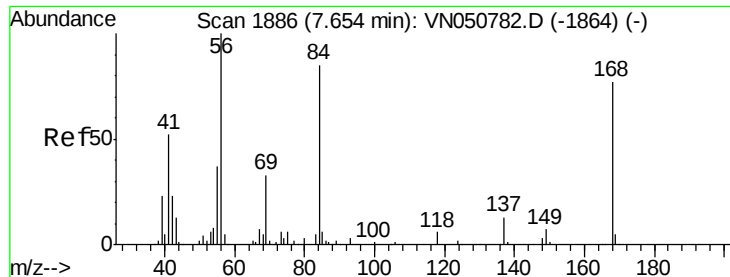
Tot Ion: 43 Resp: 2416
 Ion Ratio Lower Upper
 43 100
 72 19.3 22.3 33.5#



#29
 Tetrahydrofuran
 Concen: 0.53 ug/l
 RT: 7.22 min Scan# 1751
 Delta R.T. 0.01 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

Tgt Ion: 42 Resp: 871
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.5 53.3#
 71 39.3 33.7 50.5

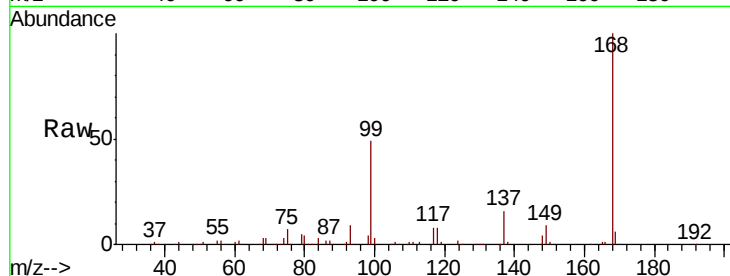




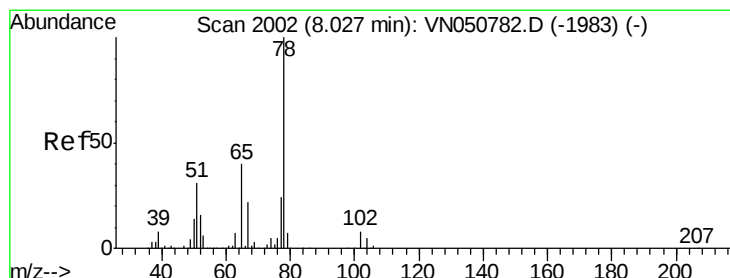
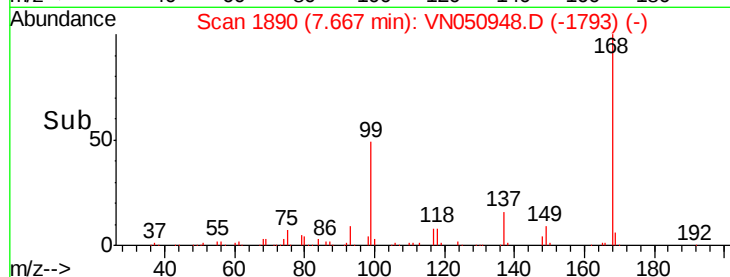
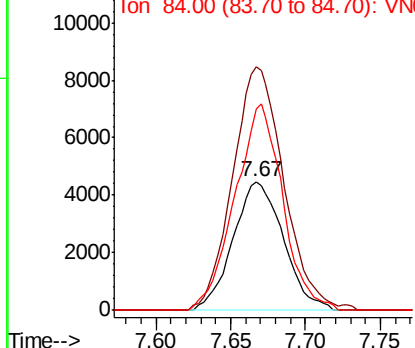
#31
Cyclohexane
Concen: 1.32 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#04

Tot Ion: 56 Resp: 10450
Ion Ratio Lower Upper
56 100
69 189.4 26.2 39.4#
84 156.5 68.3 102.5#

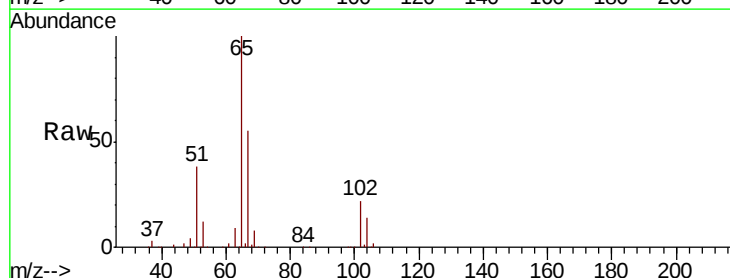


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

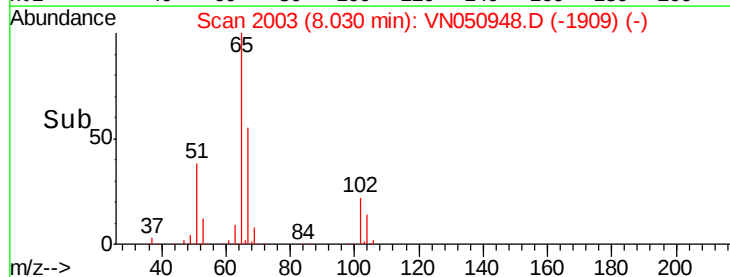
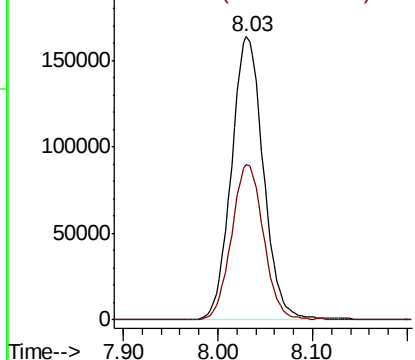


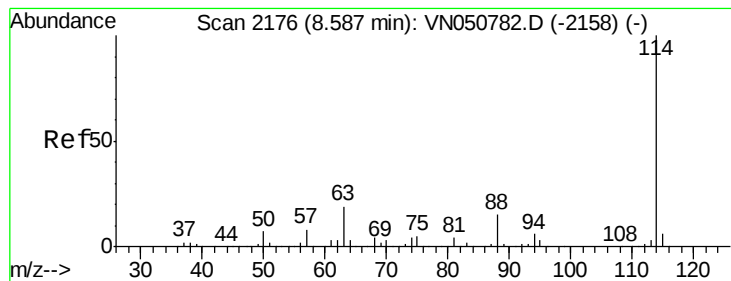
#33
1,2-Dichloroethane-d4
Concen: 54.27 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

Tgt Ion: 65 Resp: 384856
Ion Ratio Lower Upper
65 100
67 54.8 0.0 110.4



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#04

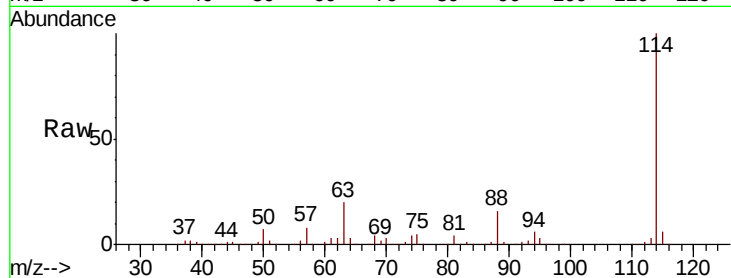
Tot Ion:114 Resp: 979178

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.6

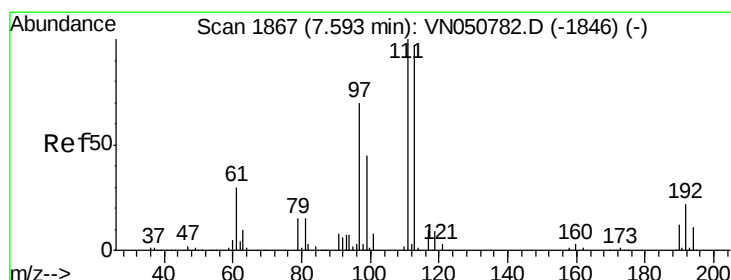
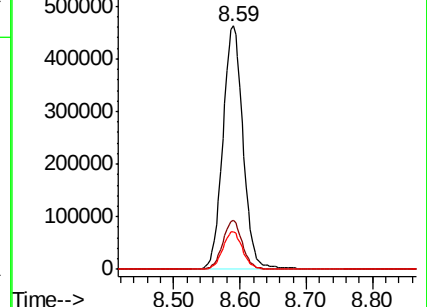
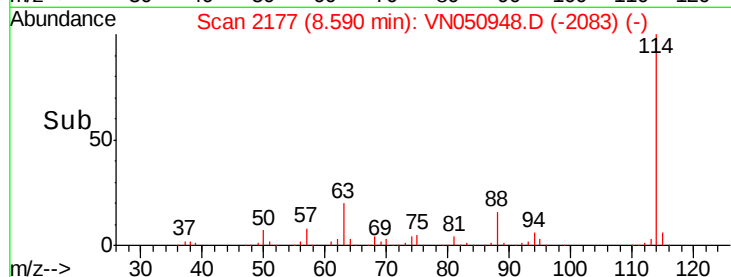
88 15.5 0.0 30.6



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: 47.02 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

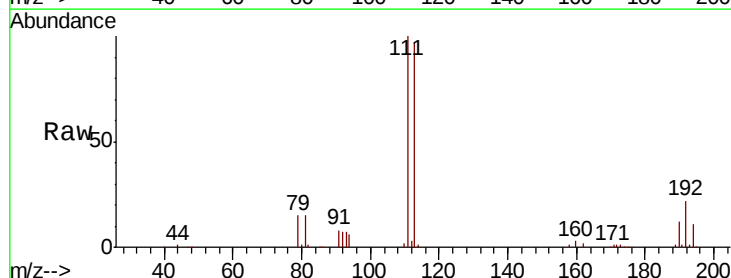
Tgt Ion:113 Resp: 366254

Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

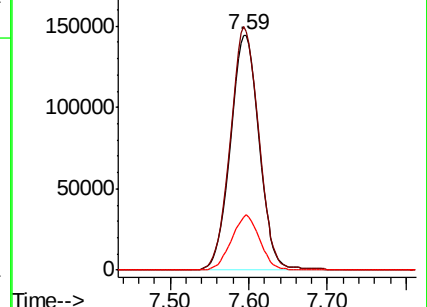
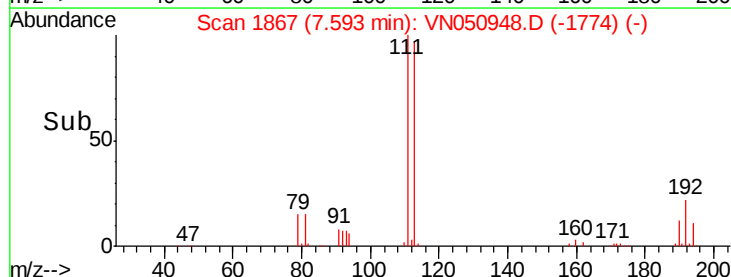
192 23.0 18.0 27.0

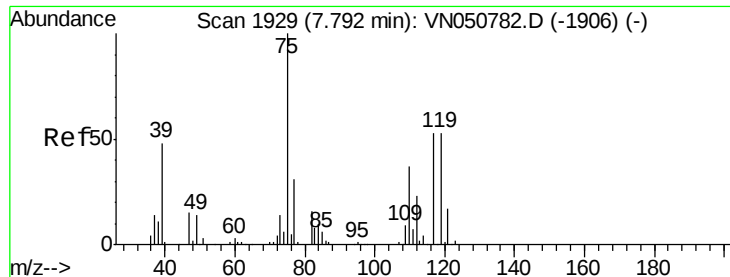


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

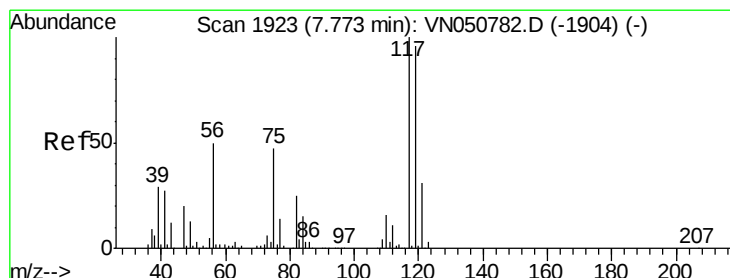
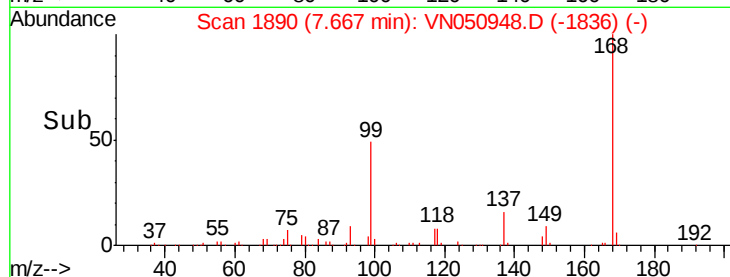
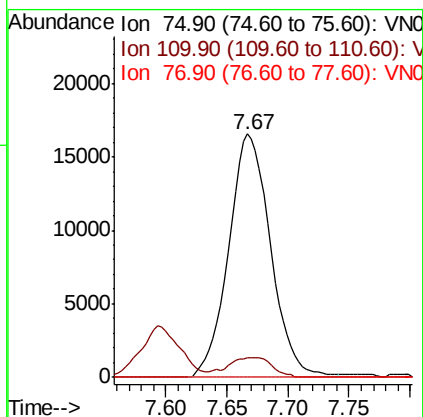
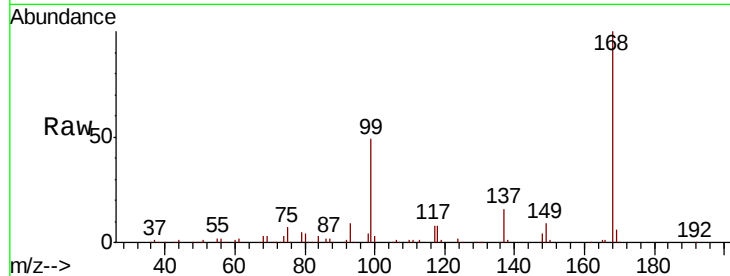




#36
 1,1-Dichloropropene
 Concen: 3.41 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

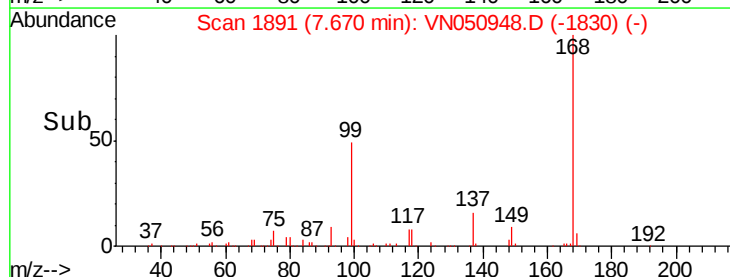
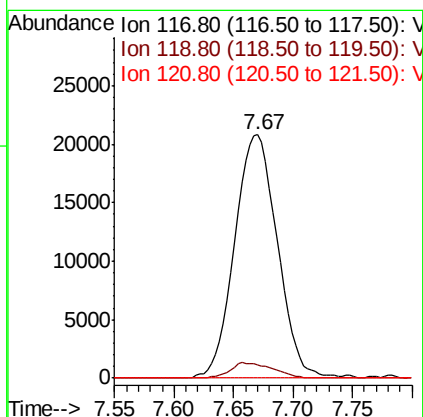
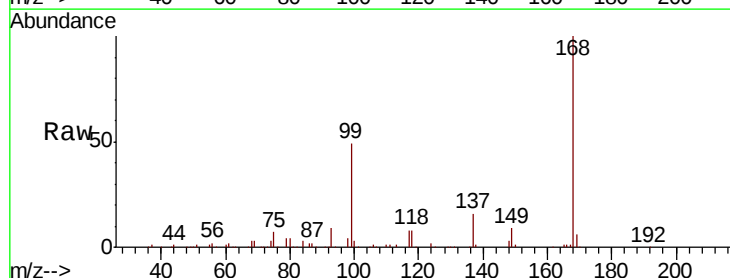
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#04

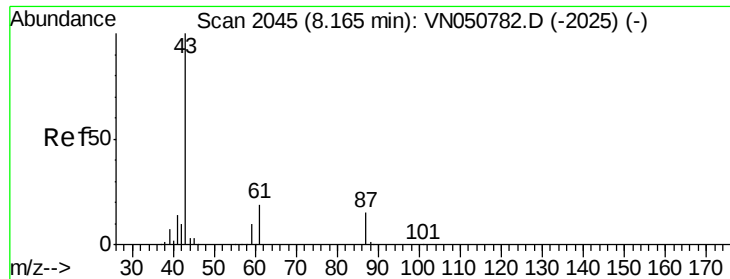
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.43 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 30.82 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#04

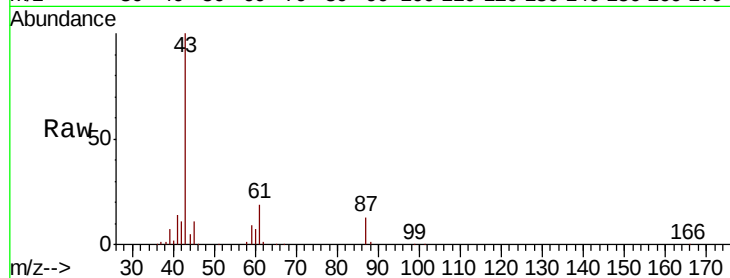
Tot Ion: 43 Resp: 351686

Ion Ratio Lower Upper

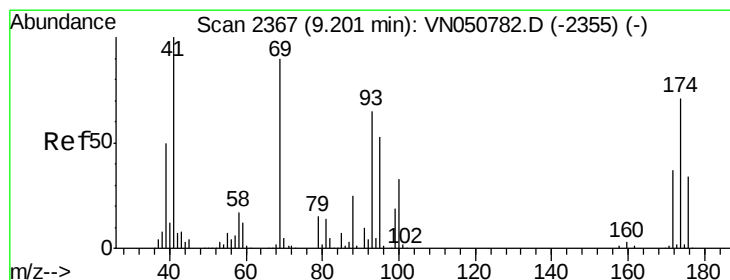
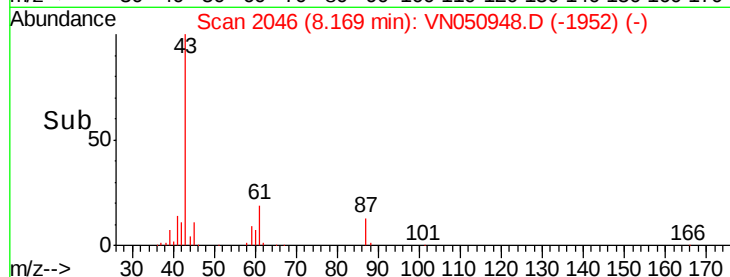
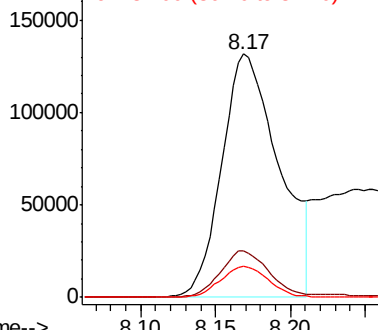
43 100

61 17.0 17.5 26.3#

87 10.8 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.45 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

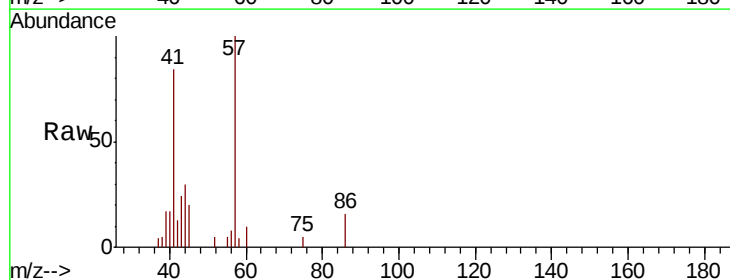
Tgt Ion: 41 Resp: 8440

Ion Ratio Lower Upper

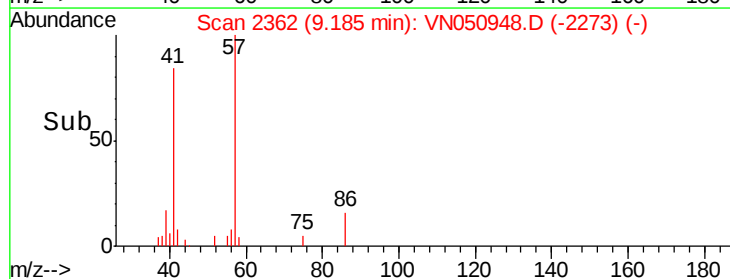
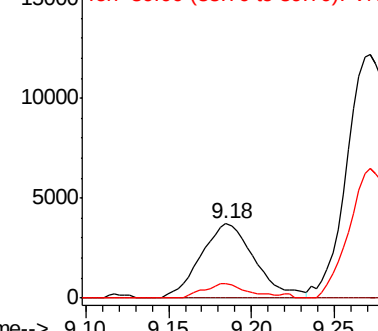
41 100

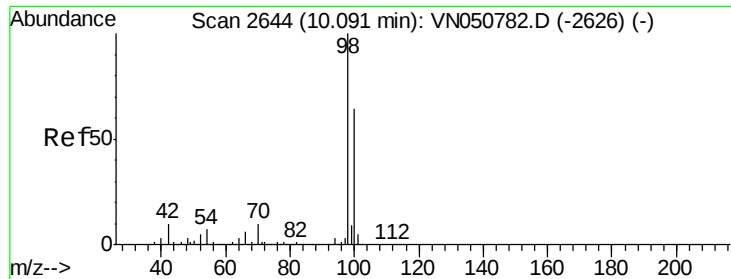
69 0.0 74.7 112.1#

39 16.9 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 44.73 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

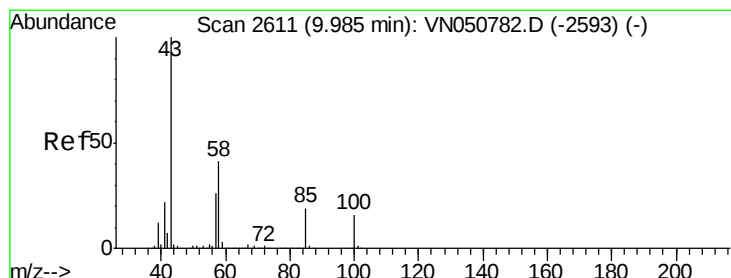
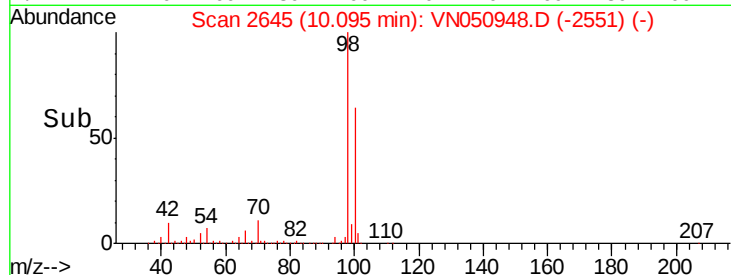
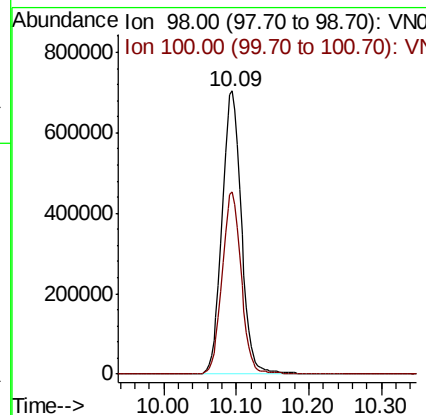
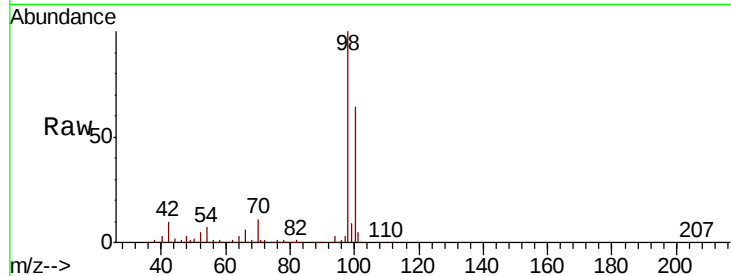
PB112452ZHE#04

Tot Ion: 98 Resp: 1302705

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050948.D

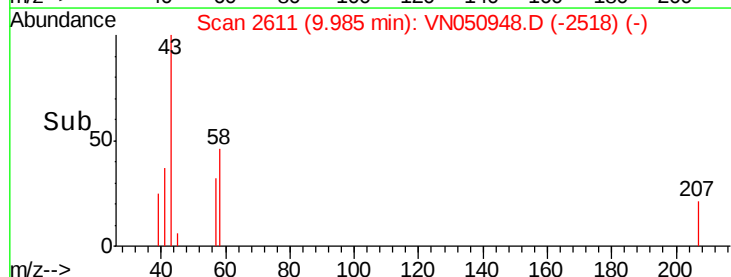
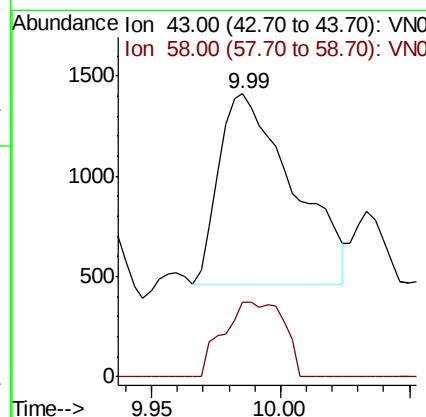
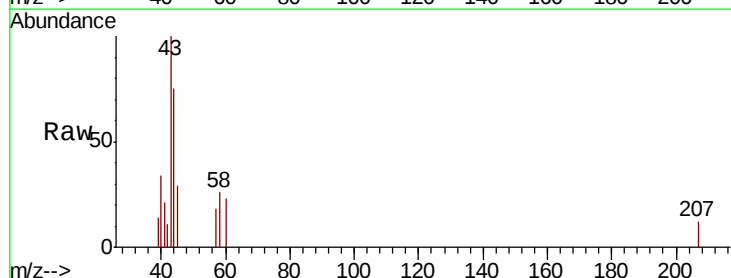
Acq: 29 Aug 2018 14:04

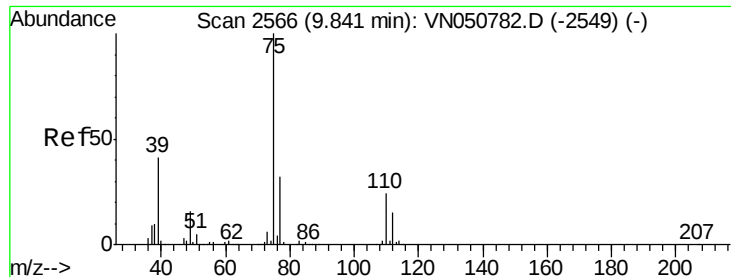
Tgt Ion: 43 Resp: 1888

Ion Ratio Lower Upper

43 100

58 32.2 32.4 48.6#





#54

cis-1,3-Dichloropropene

Concen: 0.20 ug/l

RT: 9.90 min Scan# 2586

Delta R.T. 0.06 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#04

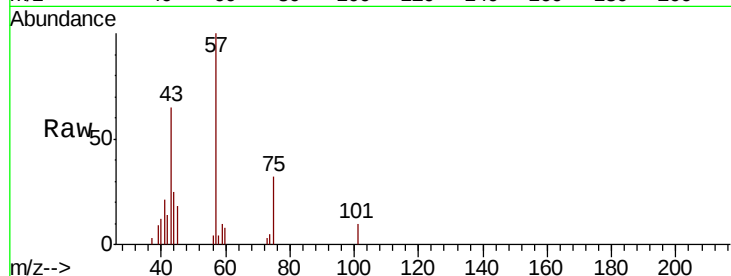
Tot Ion: 75 Resp: 2585

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

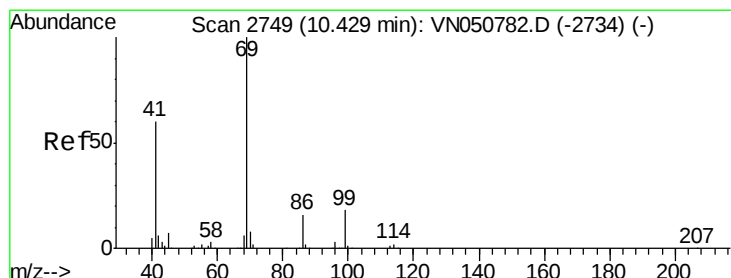
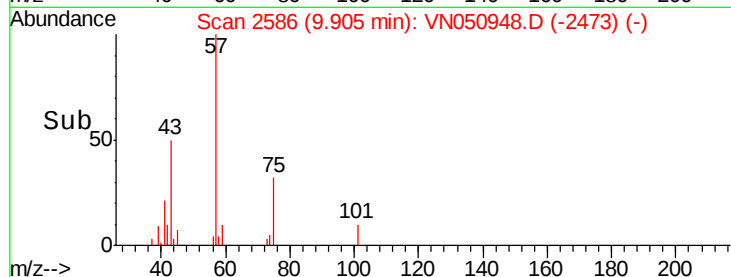
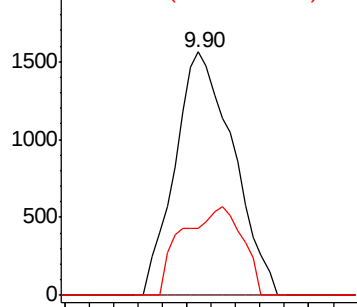
39 27.4 33.0 49.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.59 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

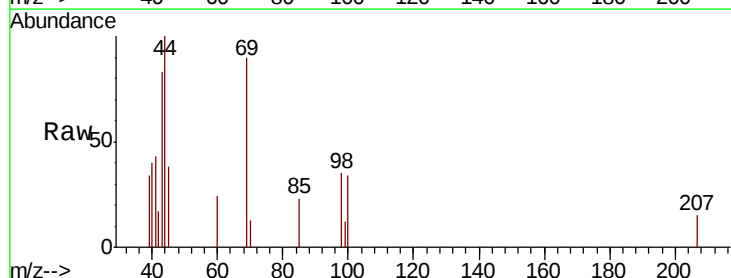
Tgt Ion: 69 Resp: 2476

Ion Ratio Lower Upper

69 100

41 44.9 48.3 72.5#

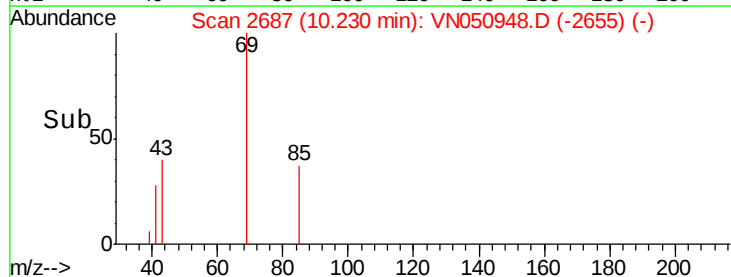
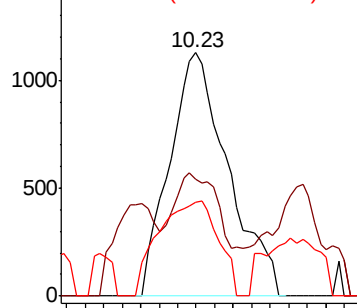
39 39.7 24.0 36.0#

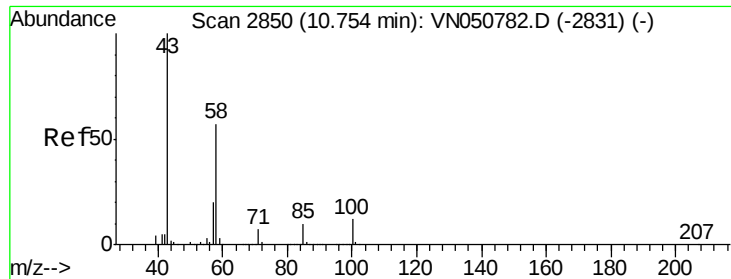


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

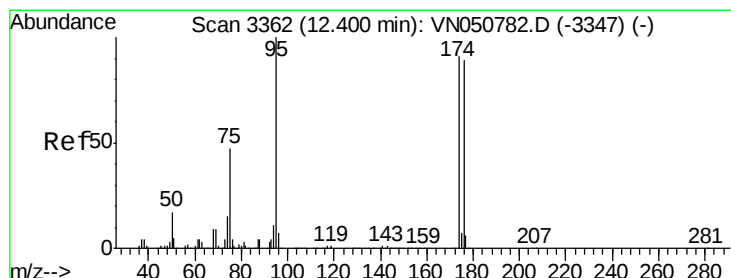
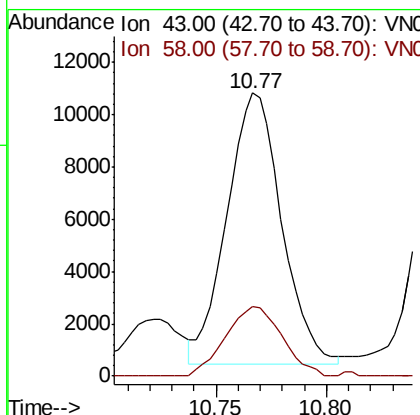
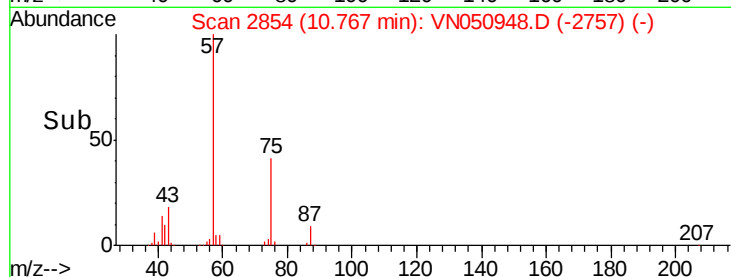
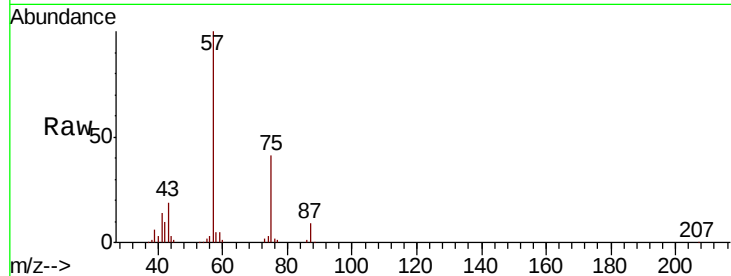




#59
 2-Hexanone
 Concen: 3.93 ug/l
 RT: 10.77 min Scan# 2854
 Delta R.T. 0.01 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

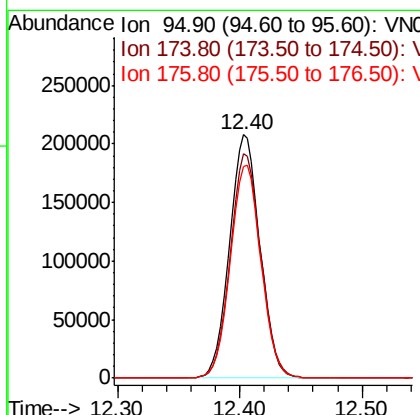
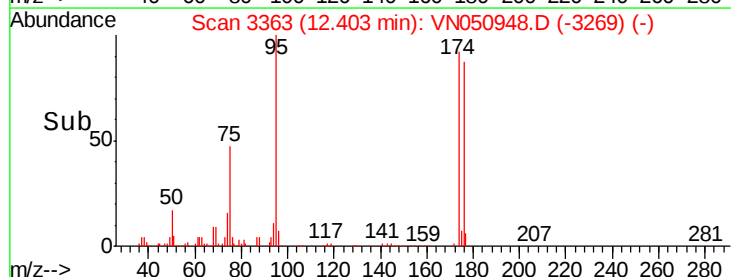
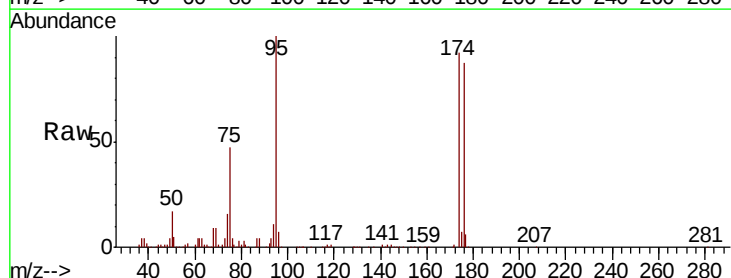
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#04

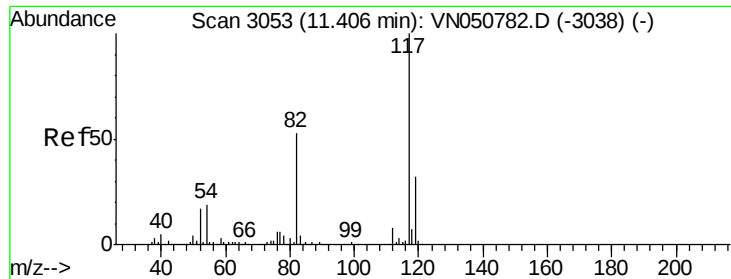
Tot Ion: 43 Resp: 17822
 Ion Ratio Lower Upper
 43 100
 58 26.5 28.3 85.0#



#62
 4-Bromofluorobenzene
 Concen: 37.27 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050948.D
 Acq: 29 Aug 2018 14:04

Tgt Ion: 95 Resp: 360734
 Ion Ratio Lower Upper
 95 100
 174 92.8 0.0 183.0
 176 88.2 0.0 178.8

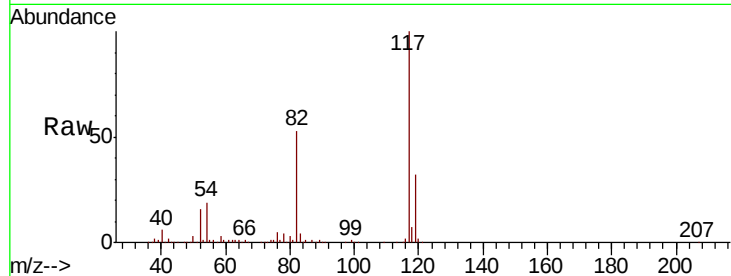




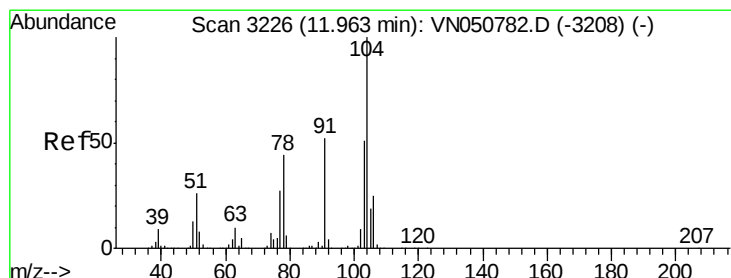
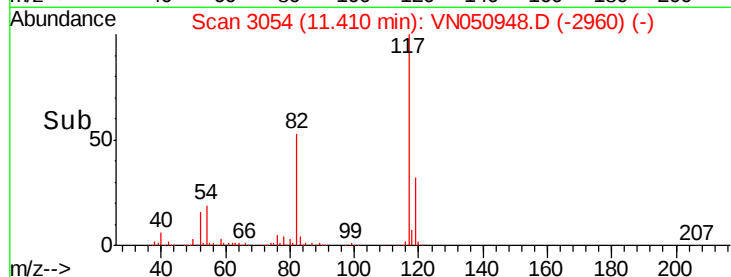
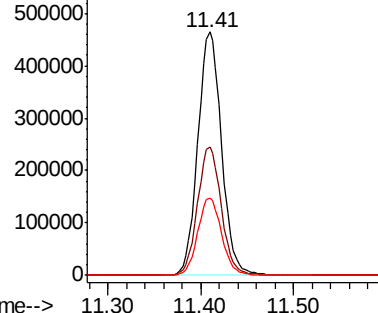
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#04

Tot Ion:117 Resp: 823326
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 31.9 25.8 38.6

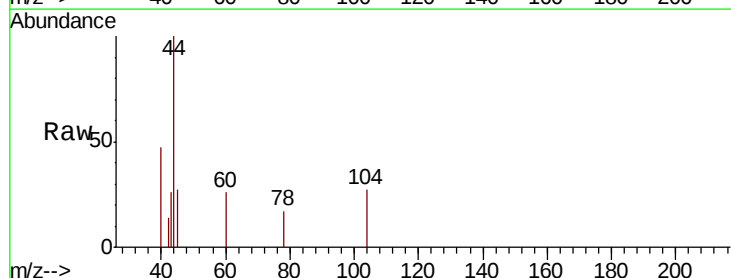


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

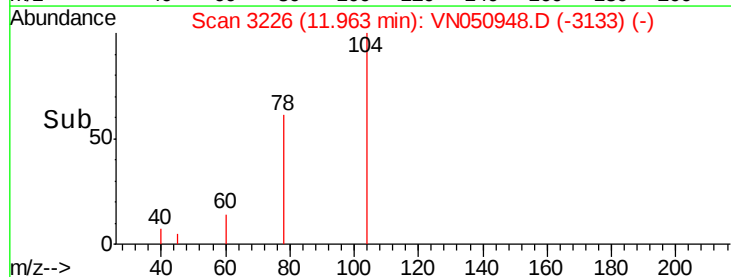
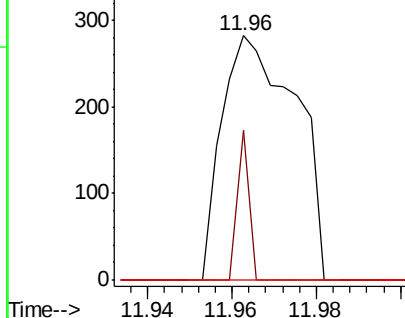


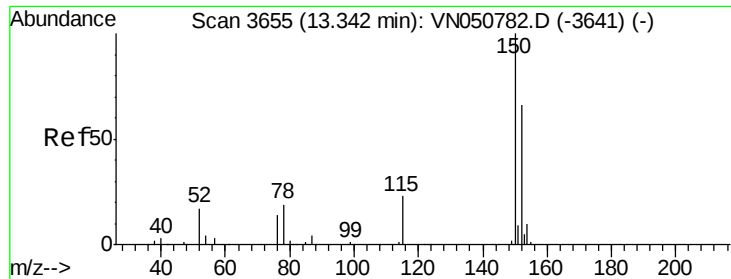
#70
Styrene
Concen: 1.29 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050948.D
Acq: 29 Aug 2018 14:04

Tgt Ion:104 Resp: 344
Ion Ratio Lower Upper
104 100
78 9.6 38.2 57.4#
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): 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: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#04

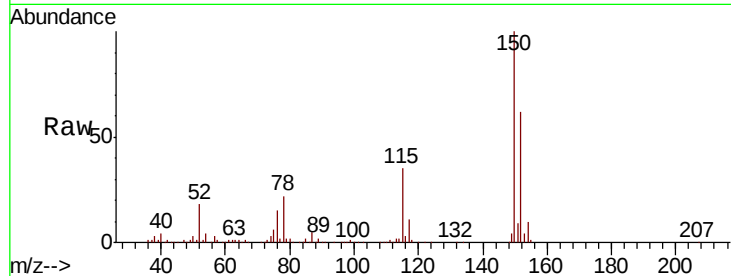
Tot Ion:152 Resp: 287242

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.4

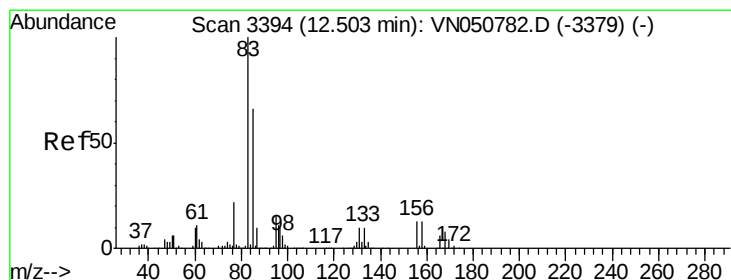
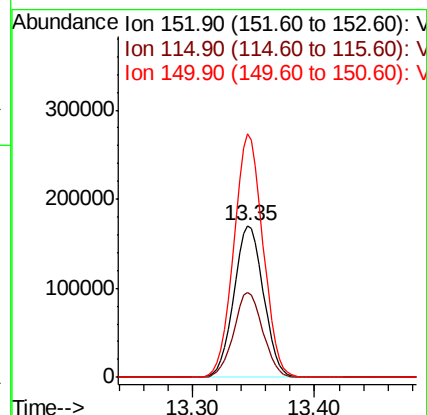
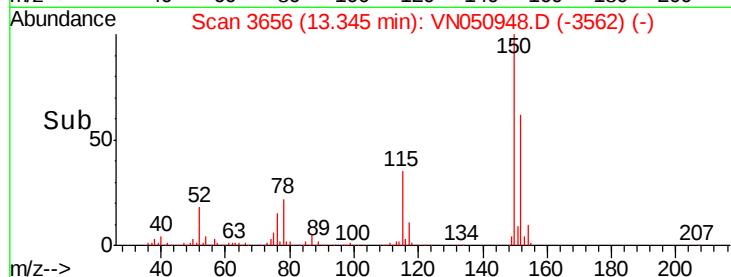
150 158.0 0.0 351.4



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: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

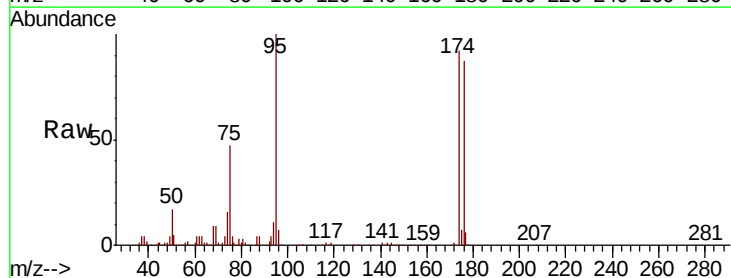
Tgt Ion: 83 Resp: 138

Ion Ratio Lower Upper

83 100

131 276.1 5.3 15.9#

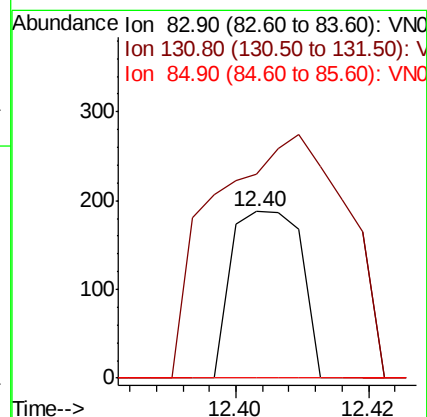
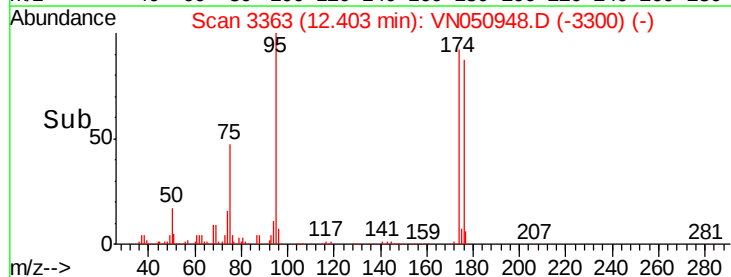
85 0.0 31.9 95.7#

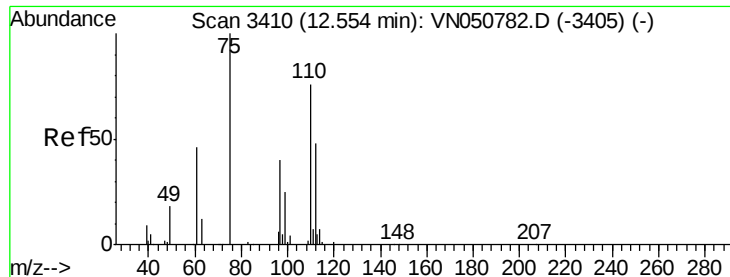


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

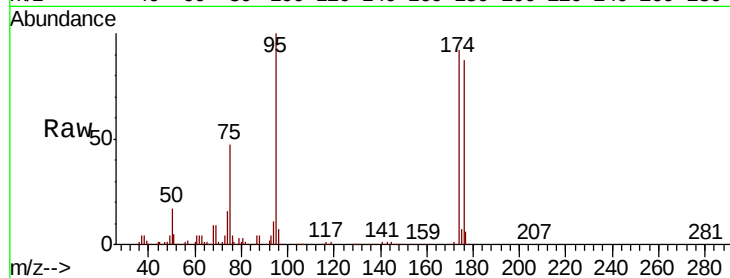
PB112452ZHE#04

Tot Ion: 75 Resp: 166946

Ion Ratio Lower Upper

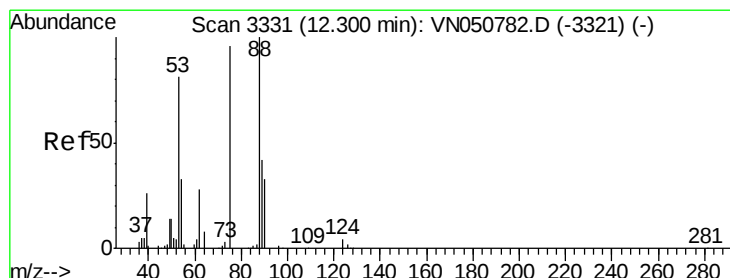
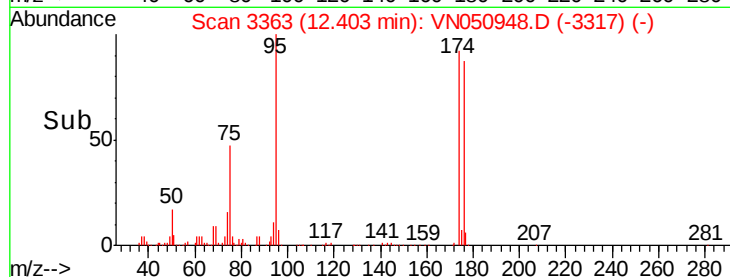
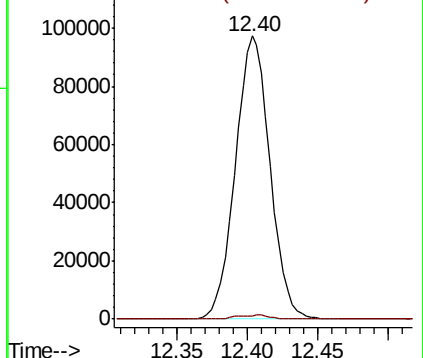
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 112.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

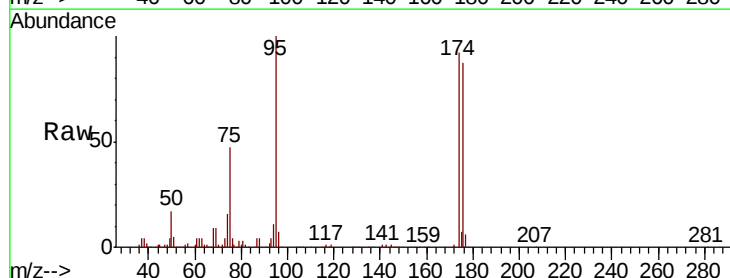
Tgt Ion: 75 Resp: 166946

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

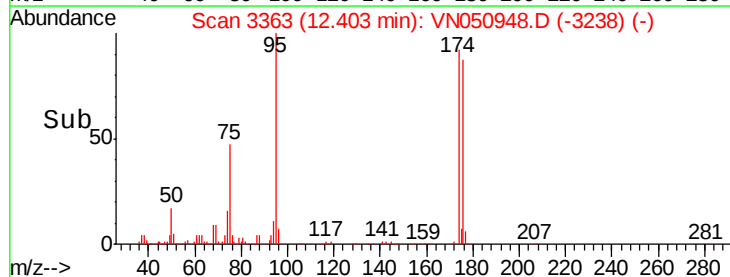
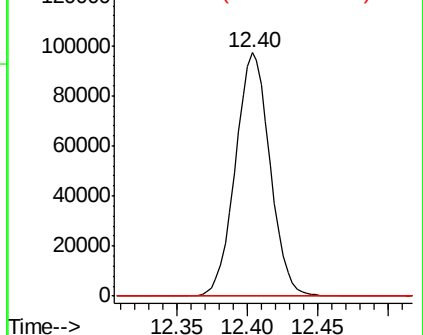
89 0.0 36.1 54.1#

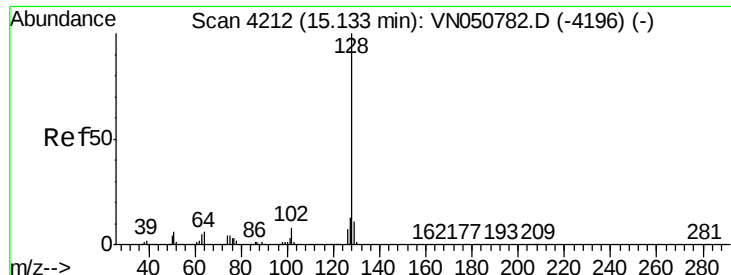


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 5.44 ug/l

RT: 15.15 min Scan# 4217

Delta R.T. 0.02 min

Lab File: VN050948.D

Acq: 29 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#04

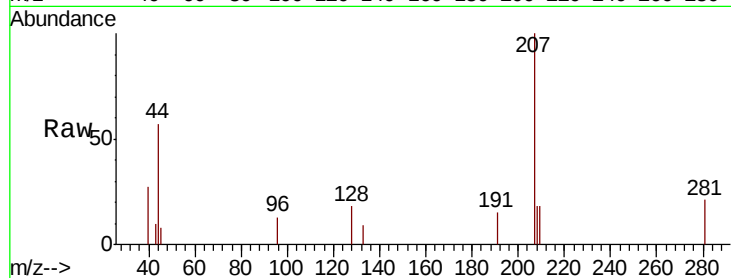
Tot Ion:128 Resp: 531

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



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

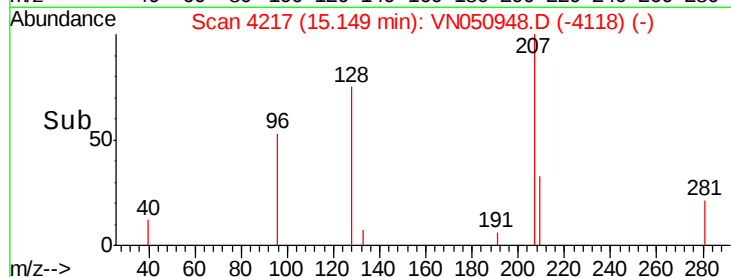
400

300

200

100

0



Time--> 15.10 15.15