

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082918\
 Data File : VN050945.D
 Acq On : 29 Aug 2018 12:49
 Operator : MD\SY
 Sample : PB112452ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

Quant Time: Aug 30 01:01:08 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	616382	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	999571	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	860099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291164	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	399786	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
35) Dibromofluoromethane	7.59	113	377394	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	10.09	98	1361490	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
62) 4-Bromofluorobenzene	12.40	95	372101	37.66	ug/l	0.00
Spiked Amount			Recovery	=	75.32%	

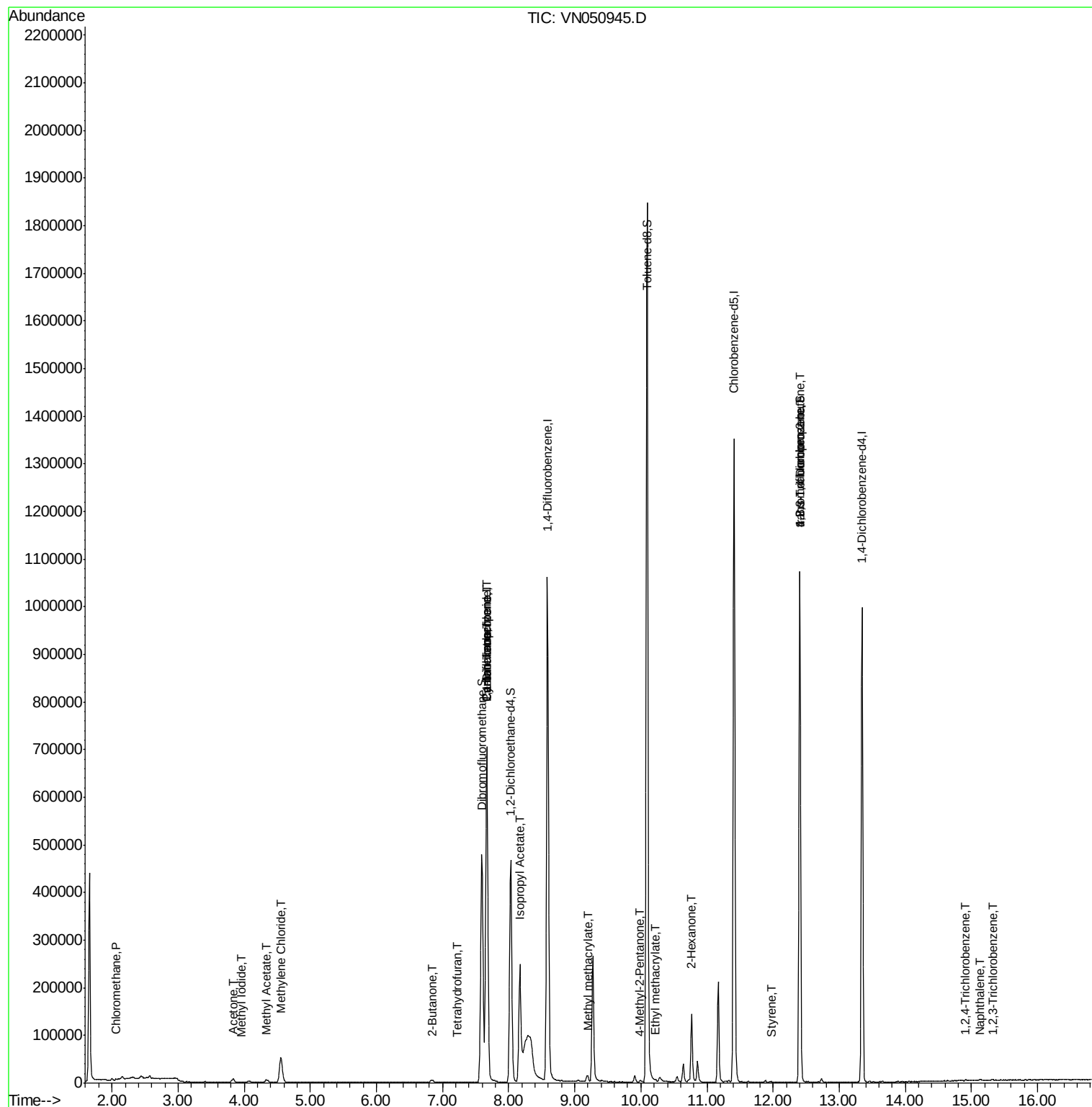
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2125	0.21	ug/l	89
5) Bromomethane	2.57	94	2928	Below Cal		81
10) Methyl Iodide	3.95	142	681	6.43	ug/l #	70
16) Acetone	3.83	43	13401	0.58	ug/l	92
18) Methyl Acetate	4.33	43	12336	1.76	ug/l #	72
20) Methylene Chloride	4.55	84	43876	5.25	ug/l	95
25) 2-Butanone	6.85	43	1919	0.64	ug/l	91
29) Tetrahydrofuran	7.22	42	624	0.36	ug/l #	78
31) Cyclohexane	7.67	56	10719	1.31	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40238	3.41	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54377	4.56	ug/l #	18
43) Isopropyl Acetate	8.17	43	301718	25.90	ug/l	96
48) Methyl methacrylate	9.18	41	8872	1.49	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	2218	0.32	ug/l #	79
56) Ethyl methacrylate	10.23	69	2948	2.63	ug/l #	62
59) 2-Hexanone	10.77	43	20481	4.43	ug/l #	56
70) Styrene	11.97	104	583	1.29	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.40	83	152	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	177458	34.80	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	177458	117.64	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	897	4.23	ug/l #	88
94) Hexachlorobutadiene	15.00	225	144	Below Cal	#	19
95) Naphthalene	15.14	128	2391	5.58	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.31	180	445	3.38	ug/l #	9

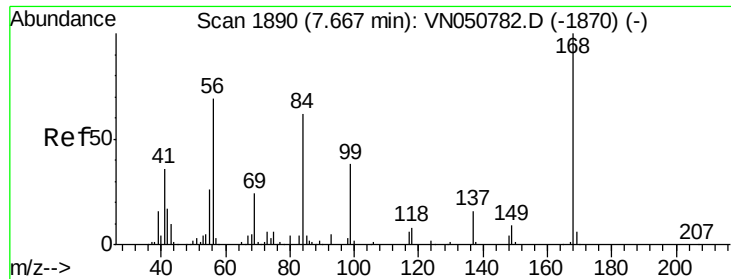
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 29 Aug 2018 12:49
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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Quant Time: Aug 30 01:01:08 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

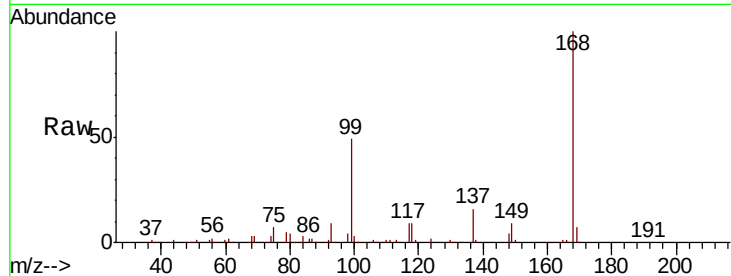
PB112452ZHE#01

Tot Ion:168 Resp: 616382

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050782.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050782.D (-1870) (-)

7.67

250000

200000

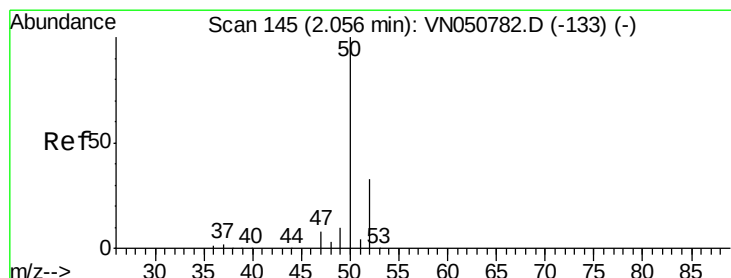
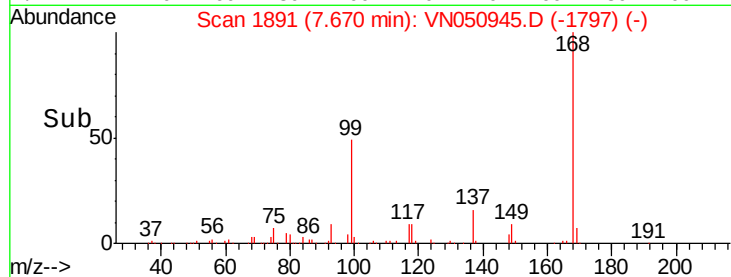
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050945.D

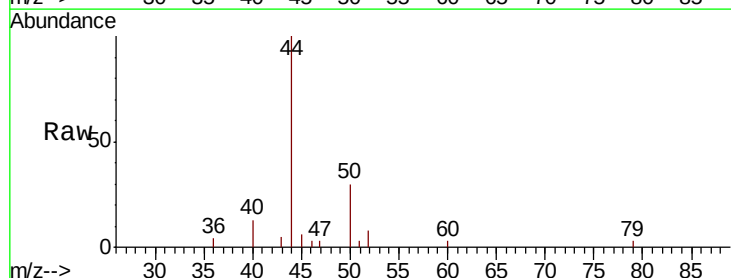
Acq: 29 Aug 2018 12:49

Tgt Ion: 50 Resp: 2125

Ion Ratio Lower Upper

50 100

52 26.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050782.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050782.D (-133) (-)

2.06

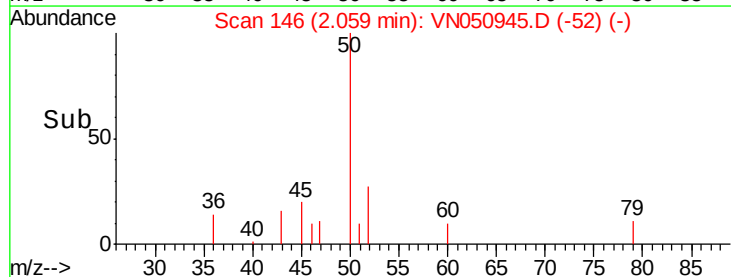
1500

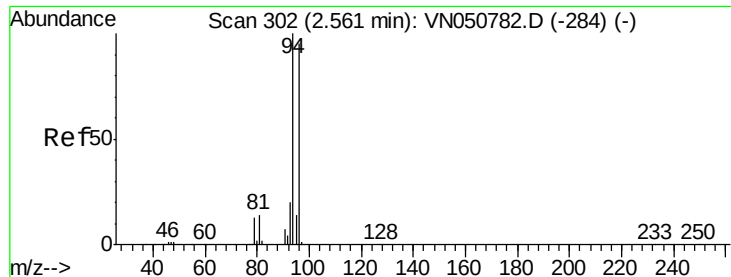
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

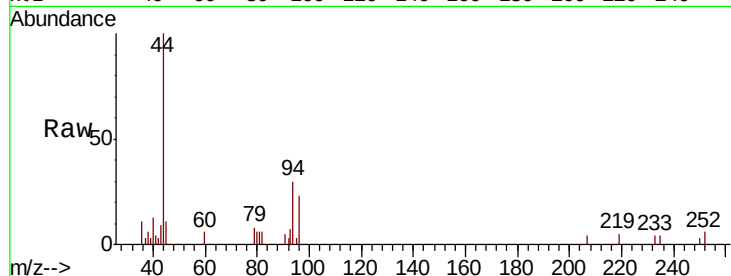
PB112452ZHE#01

Tot Ion: 94 Resp: 2928

Ion Ratio Lower Upper

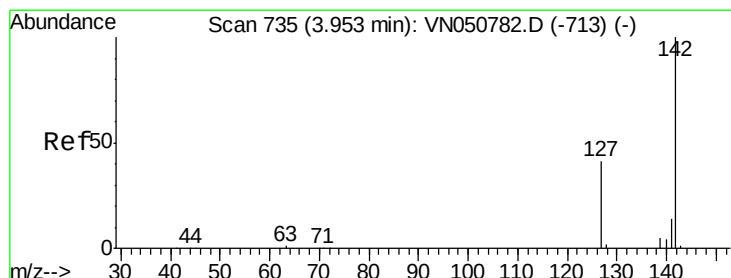
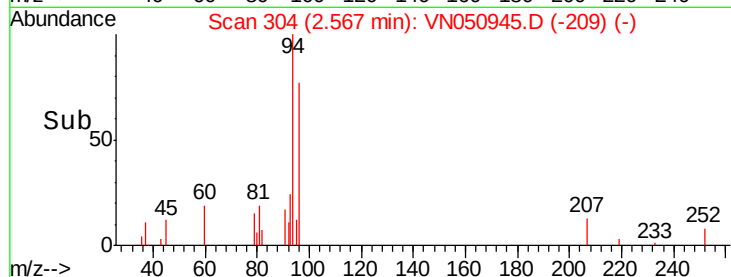
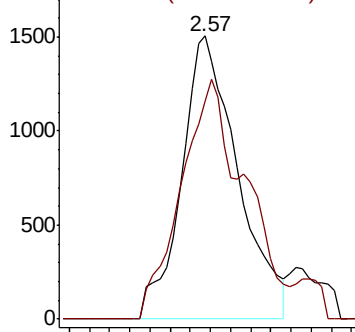
94 100

96 77.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 6.43 ug/l

RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

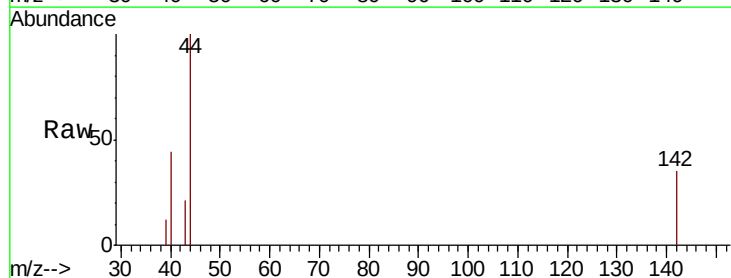
Tgt Ion: 142 Resp: 681

Ion Ratio Lower Upper

142 100

127 22.2 31.7 47.5#

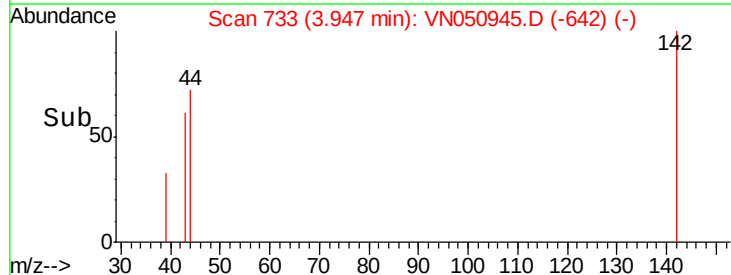
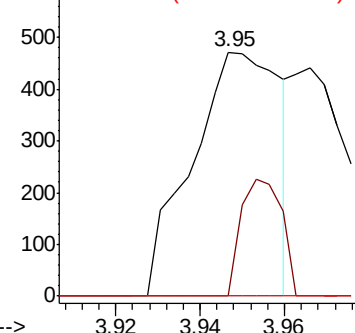
141 0.0 11.4 17.0#

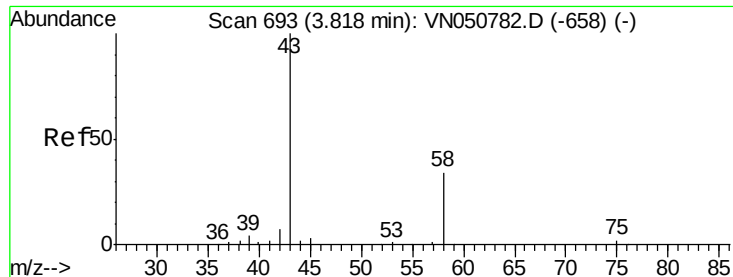


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 0.58 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

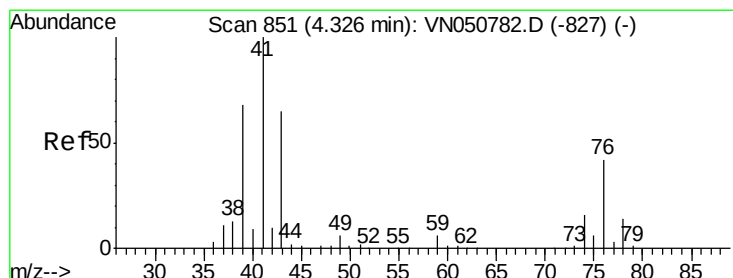
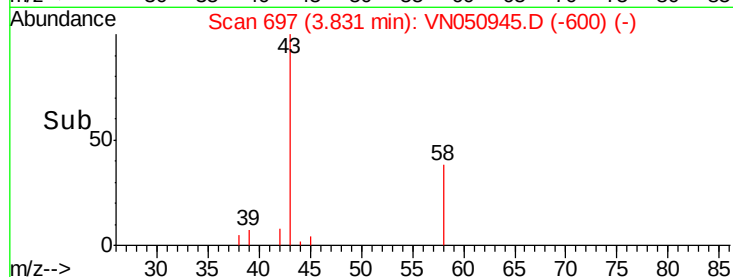
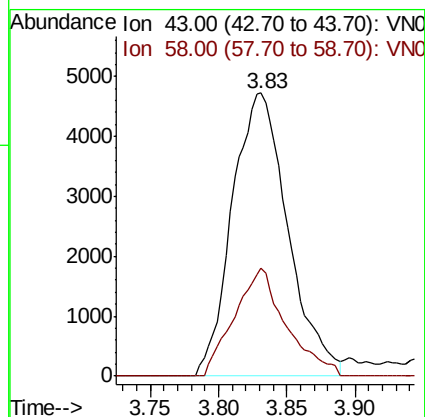
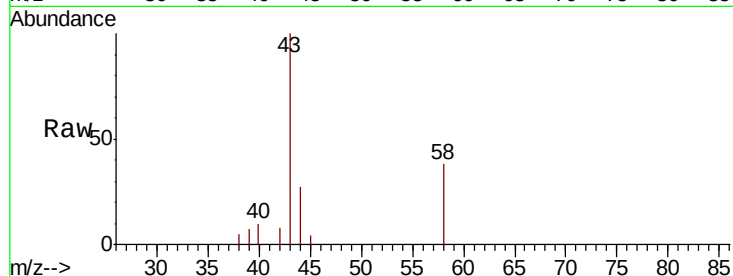
PB112452ZHE#01

Tot Ion: 43 Resp: 13401

Ion Ratio Lower Upper

43 100

58 38.4 27.2 40.8



#18

Methyl Acetate

Concen: 1.76 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050945.D

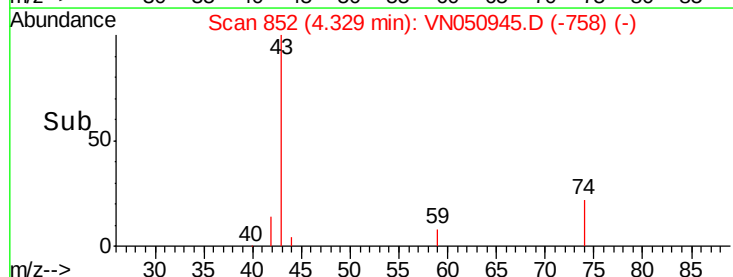
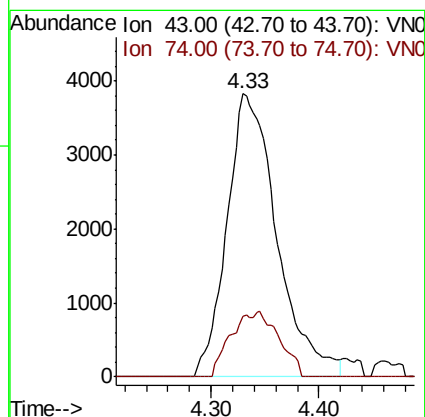
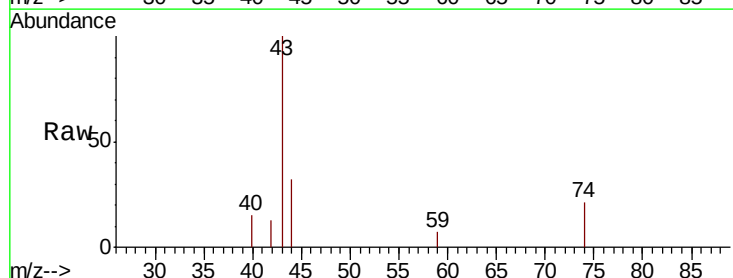
Acq: 29 Aug 2018 12:49

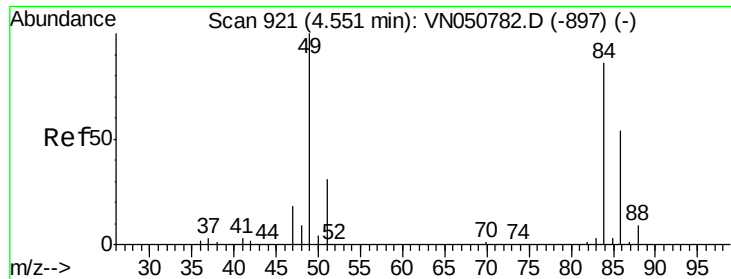
Tgt Ion: 43 Resp: 12336

Ion Ratio Lower Upper

43 100

74 10.9 19.8 29.8#

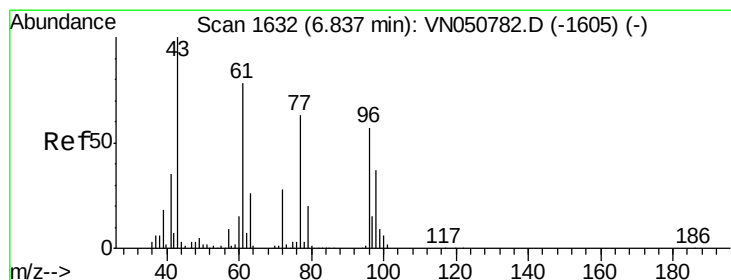
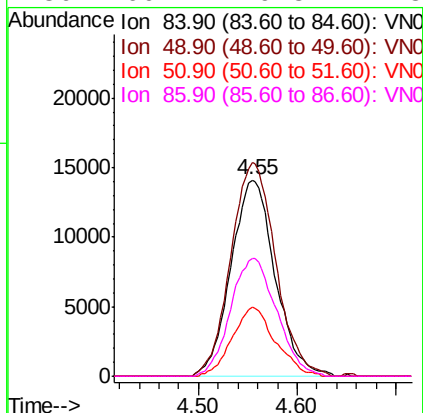
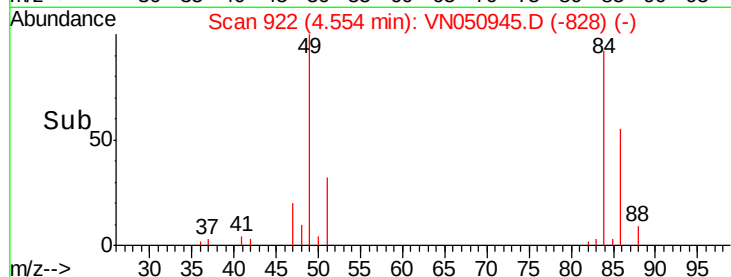
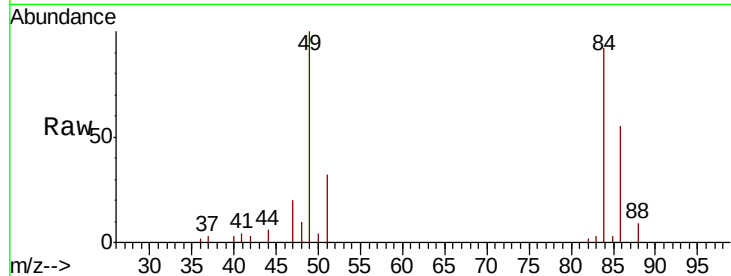




#20
Methvlene Chloride
Concen: 5.25 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

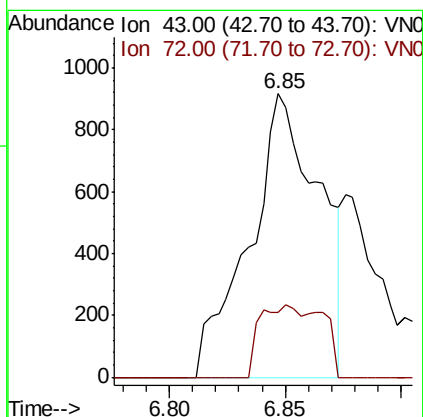
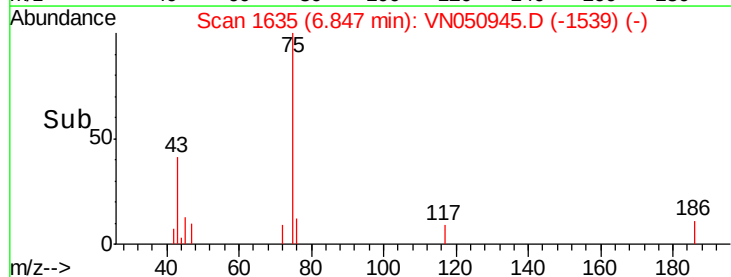
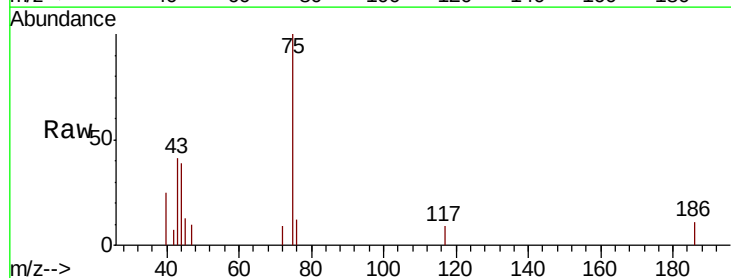
Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#01

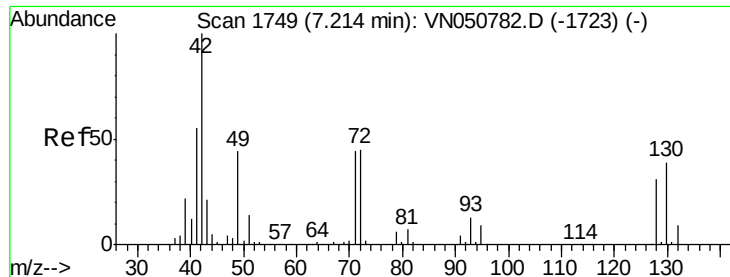
Tot Ion: 84 Resp: 43876
Ion Ratio Lower Upper
84 100
49 108.7 93.2 139.8
51 35.1 29.0 43.6
86 60.2 49.8 74.8



#25
2-Butanone
Concen: 0.64 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

Tgt Ion: 43 Resp: 1919
Ion Ratio Lower Upper
43 100
72 22.9 22.3 33.5





#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#01

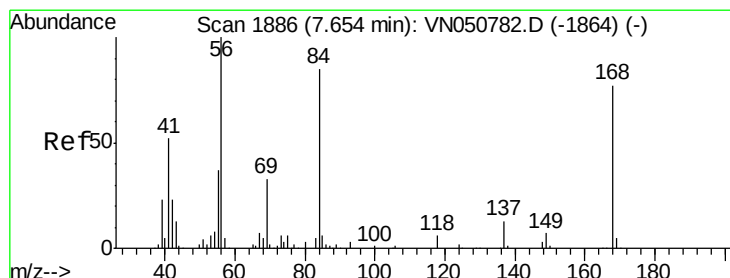
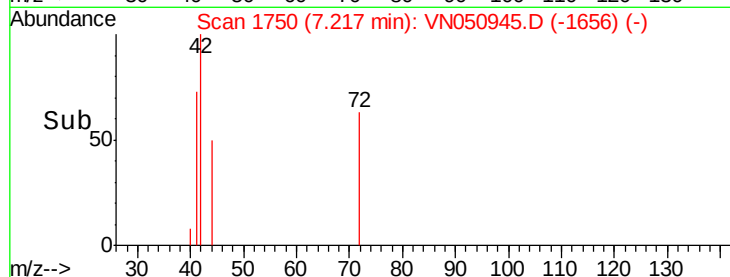
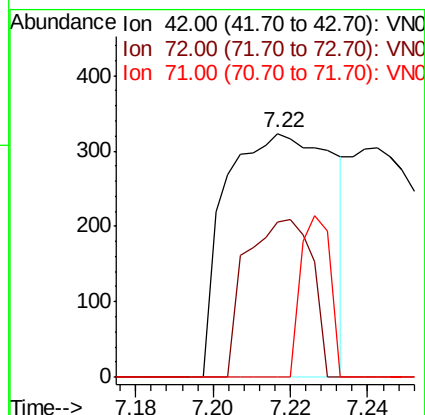
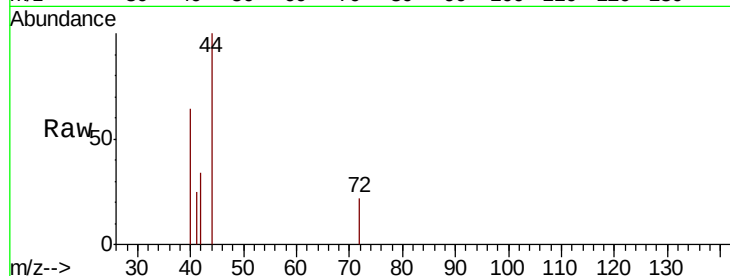
Tot Ion: 42 Resp: 624

Ion Ratio Lower Upper

42 100

72 39.4 35.5 53.3

71 18.3 33.7 50.5#



#31

Cyclohexane

Concen: 1.31 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

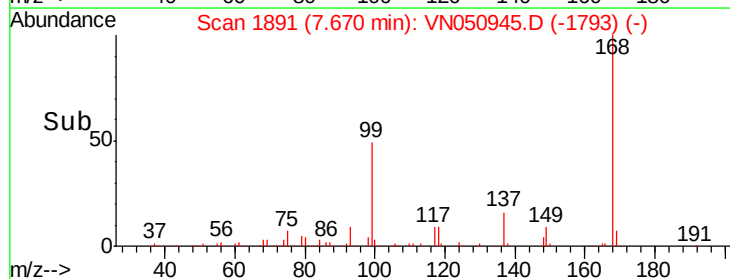
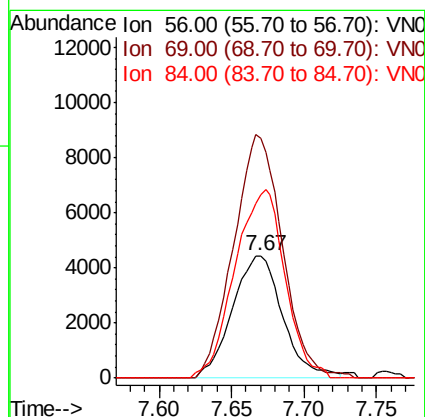
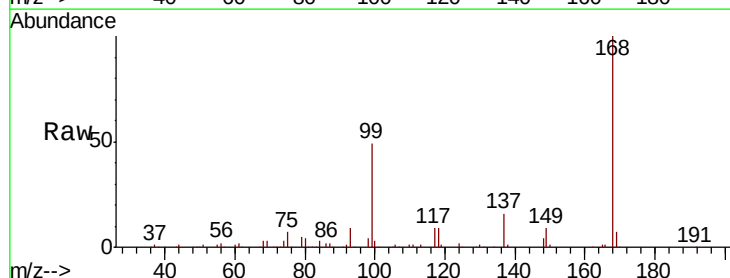
Tgt Ion: 56 Resp: 10719

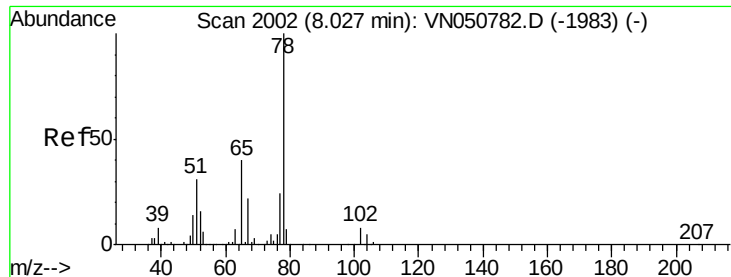
Ion Ratio Lower Upper

56 100

69 196.3 26.2 39.4#

84 150.5 68.3 102.5#

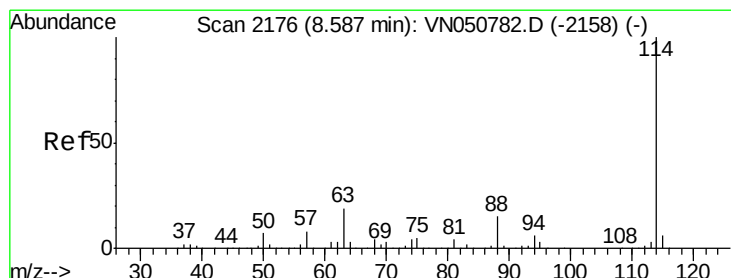
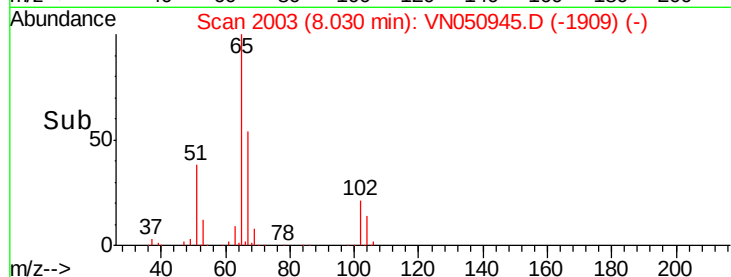
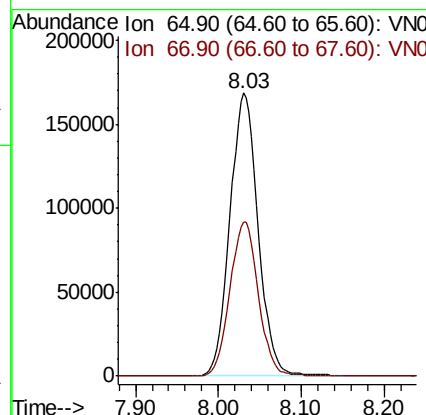
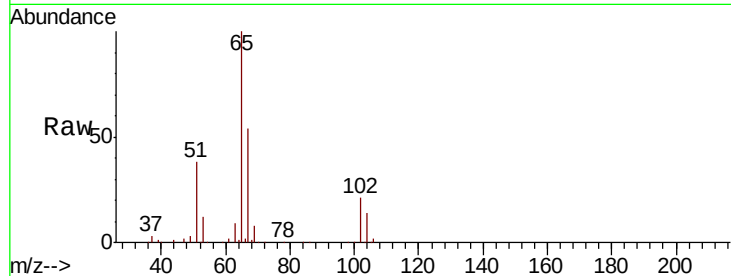




#33
 1,2-Dichloroethane-d4
 Concen: 53.88 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

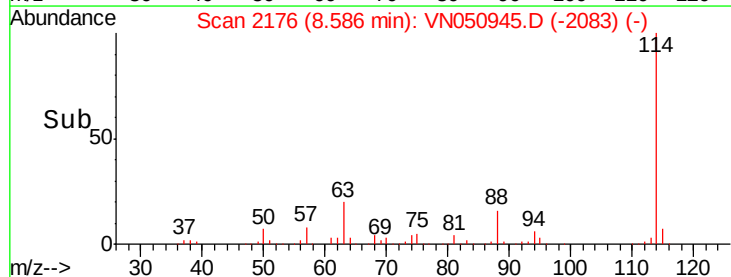
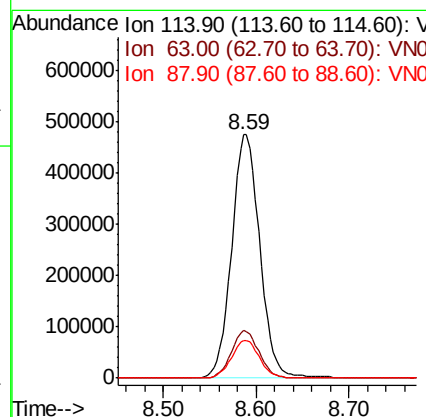
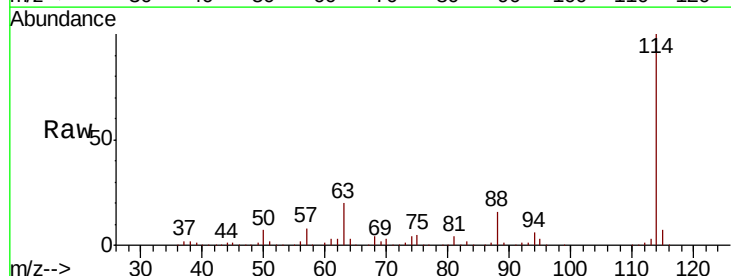
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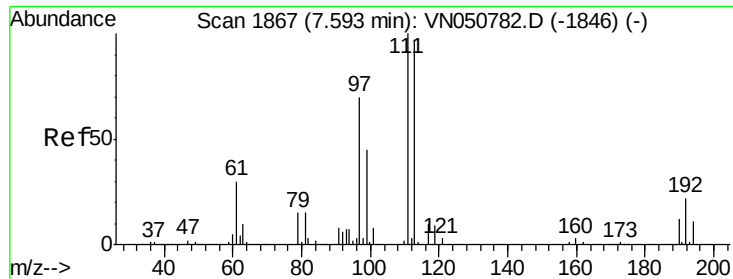
Tot Ion: 65 Resp: 399786
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion: 114 Resp: 999571
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.5 0.0 30.6

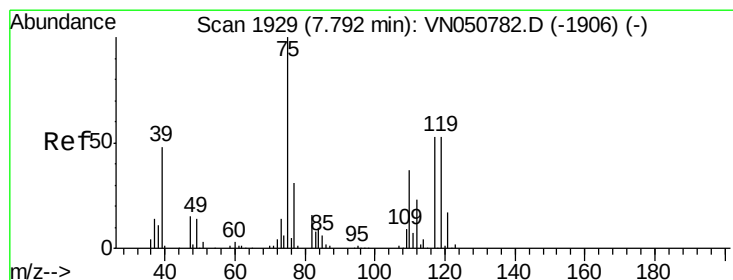
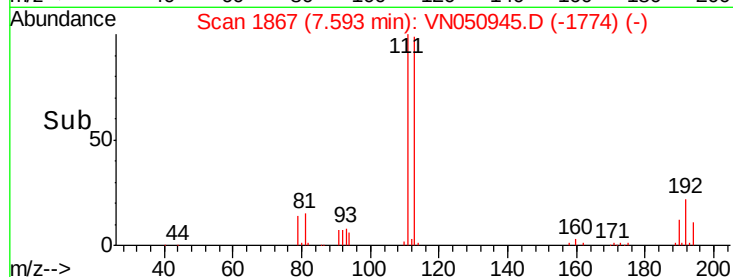
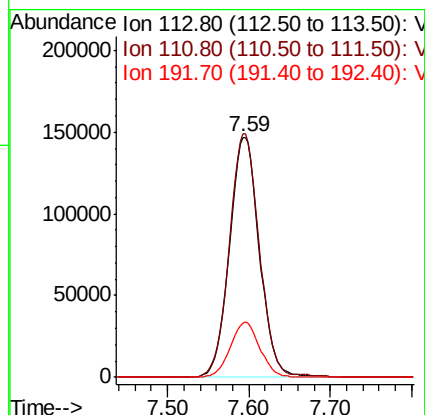
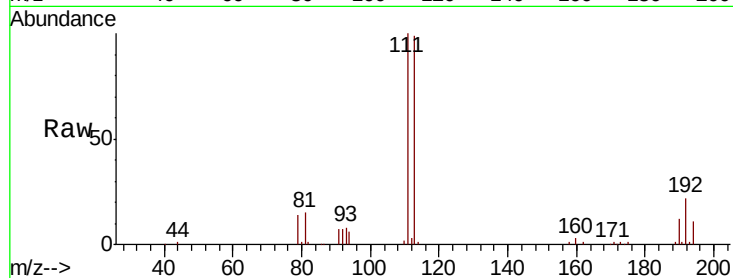




#35
 Dibromofluoromethane
 Concen: 47.46 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

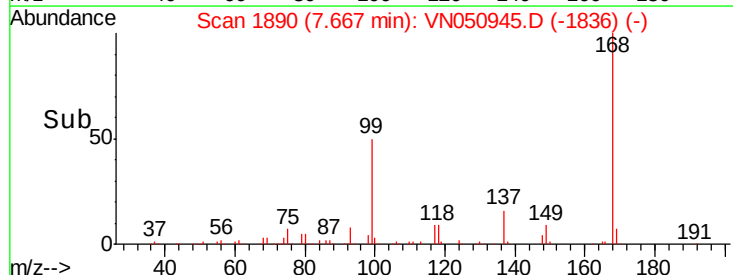
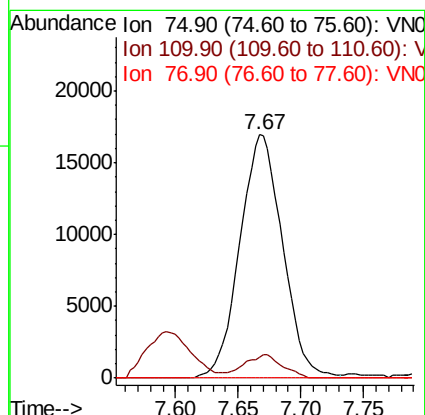
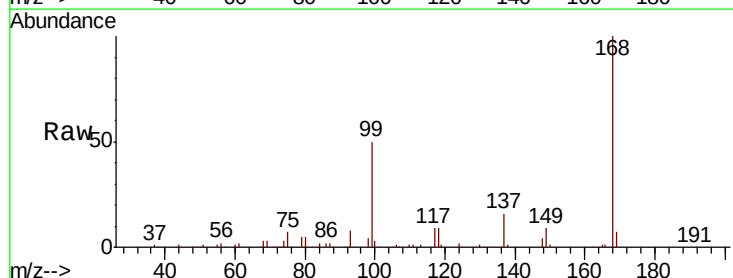
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

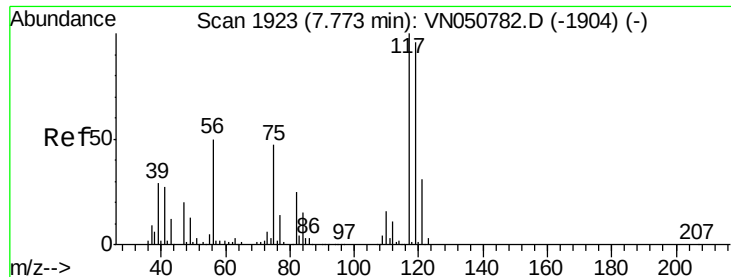
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.6	123.8
192	22.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.41 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.8	37.2#

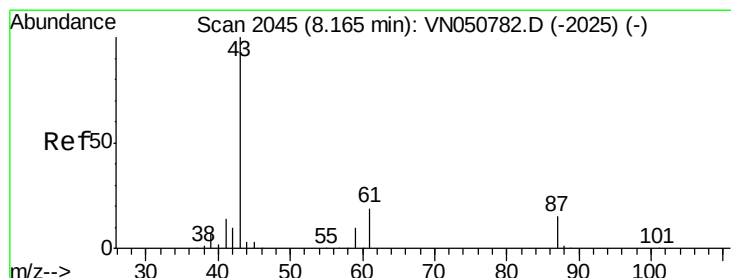
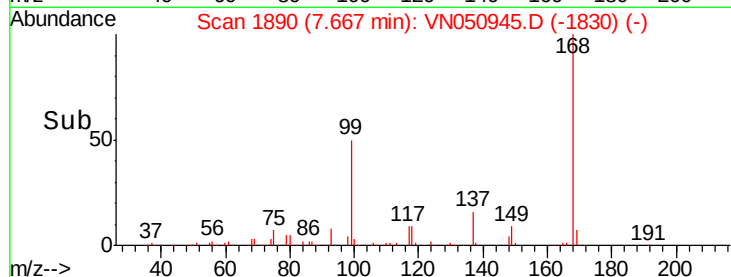
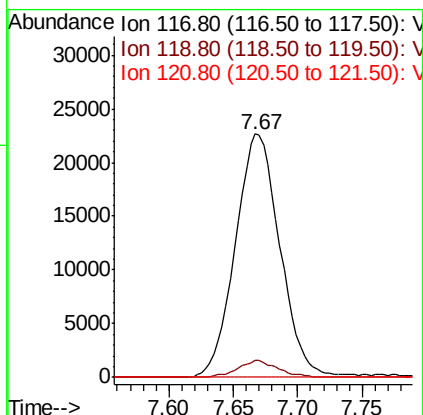
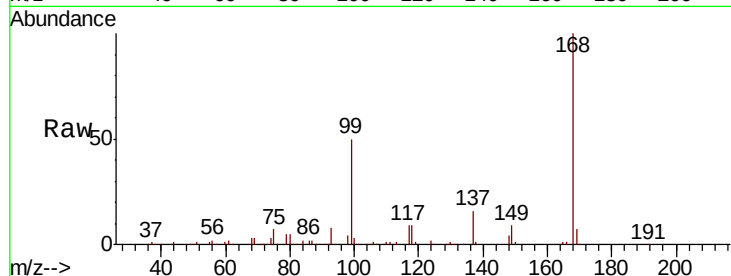




#38
 Carbon Tetrachloride
 Concen: 4.56 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

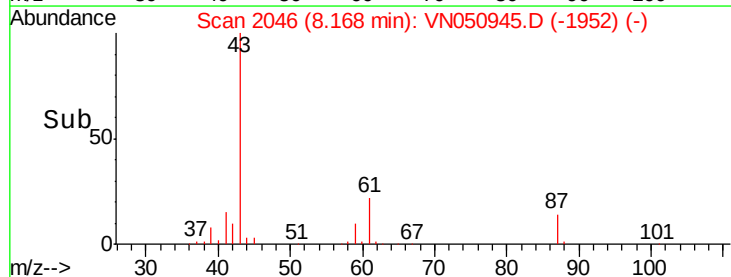
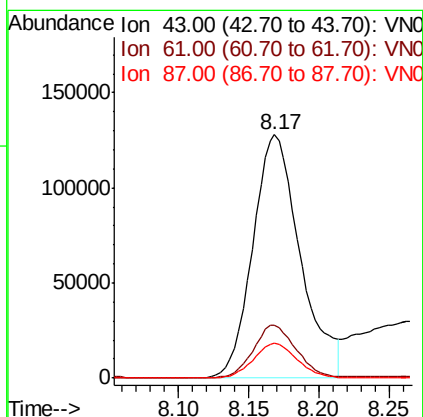
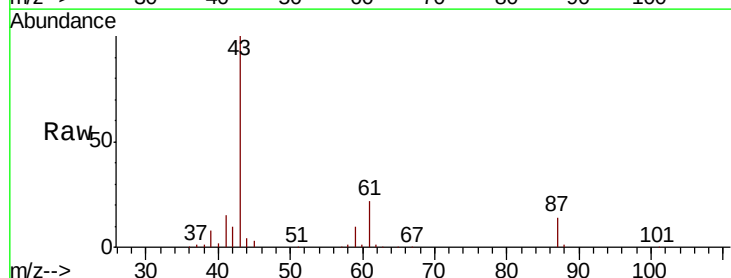
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

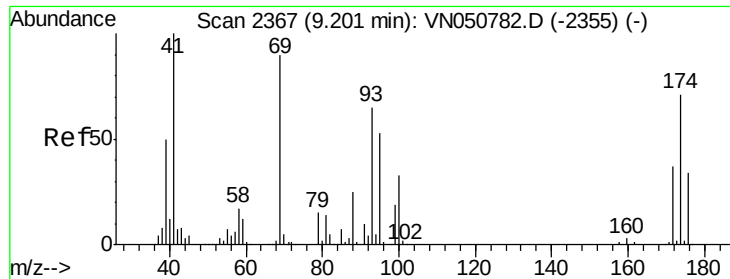
Tot Ion:117 Resp: 54377
 Ion Ratio Lower Upper
 117 100
 119 6.9 76.3 114.5#
 121 0.0 24.6 36.8#



#43
 Isopropyl Acetate
 Concen: 25.90 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion: 43 Resp: 301718
 Ion Ratio Lower Upper
 43 100
 61 19.8 17.5 26.3
 87 13.1 11.3 16.9

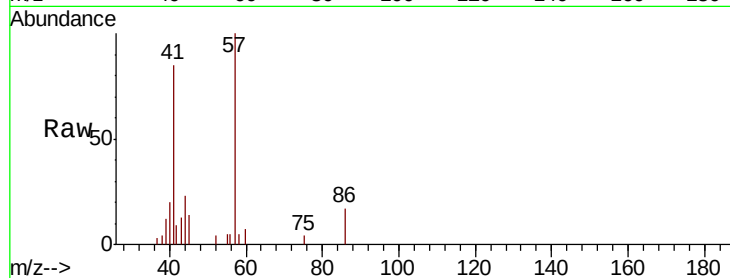




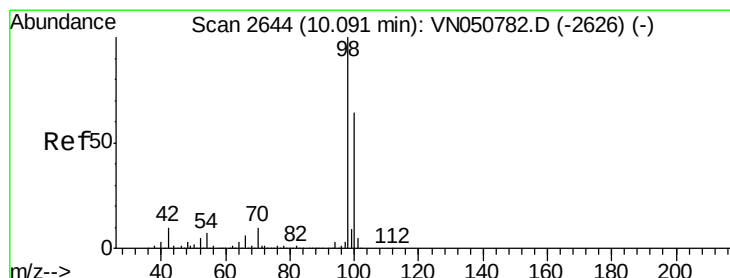
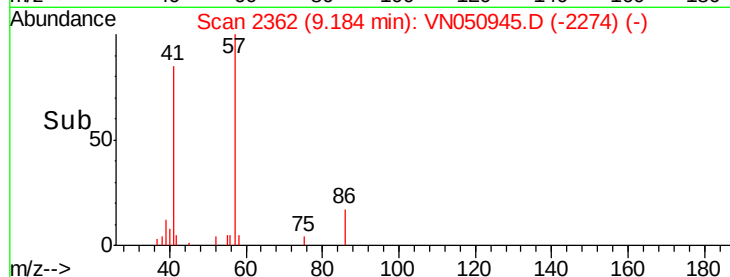
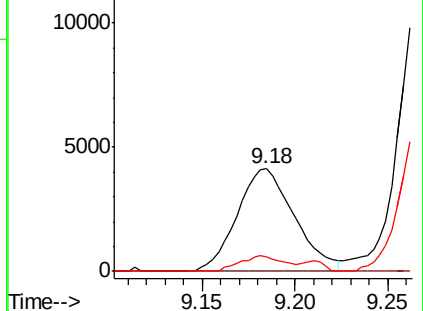
#48
Methyl methacrylate
Concen: 1.49 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#01

Tot Ion: 41 Resp: 8872
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 11.6 42.2 63.2#

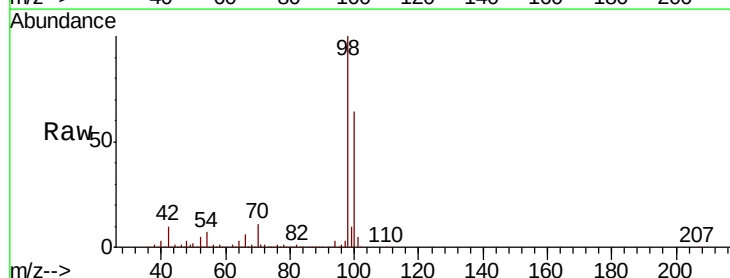


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

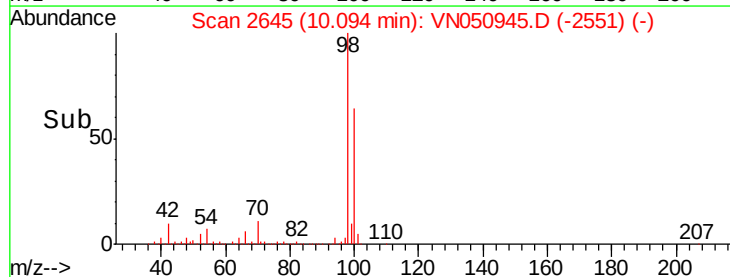
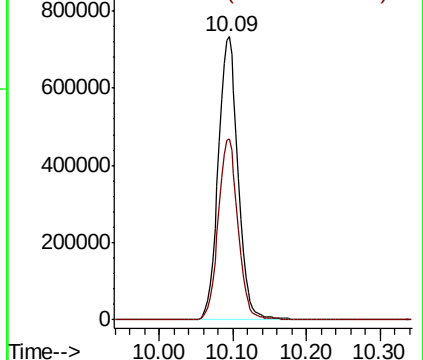


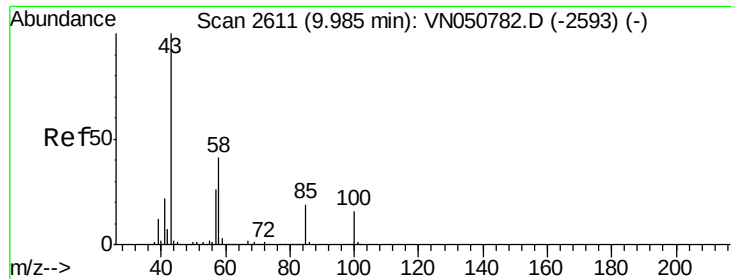
#50
Toluene-d8
Concen: 45.79 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

Tgt Ion: 98 Resp: 1361490
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3



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

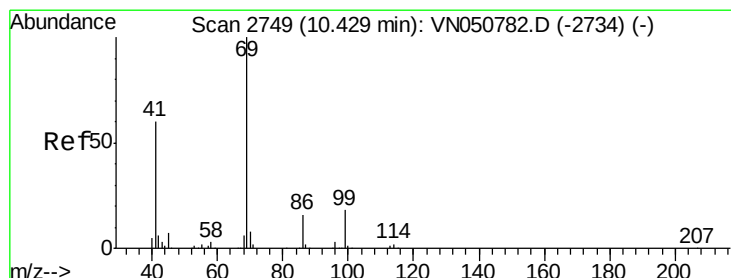
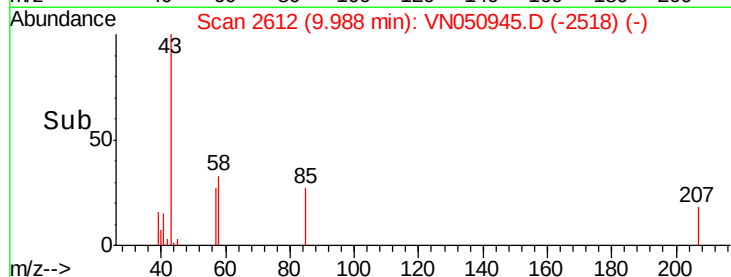
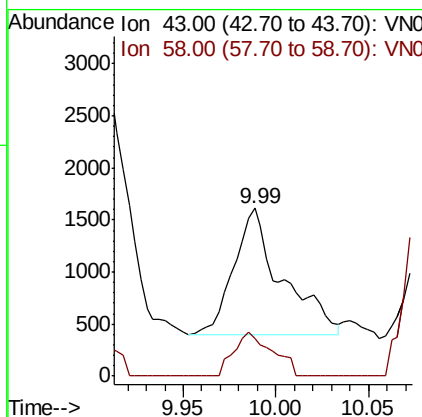
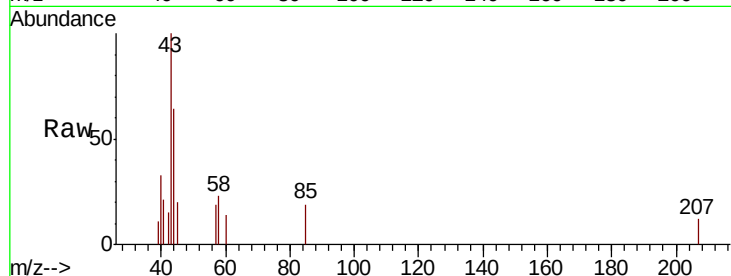




#51
 4-Methyl-2-Pentanone
 Concen: 0.32 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

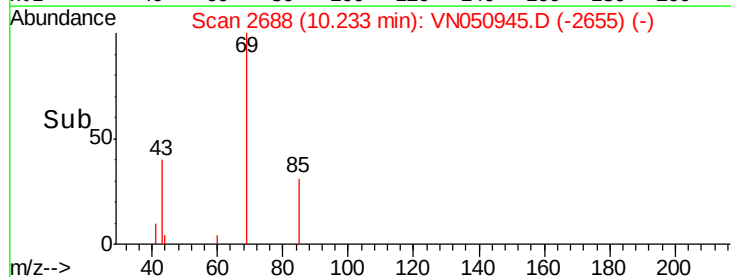
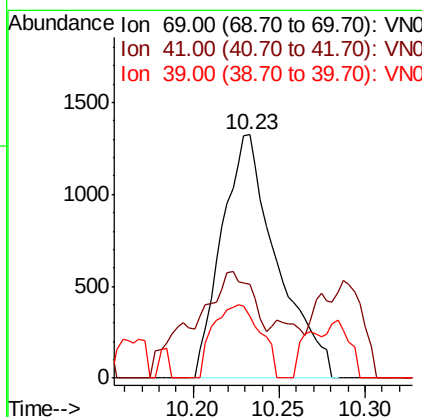
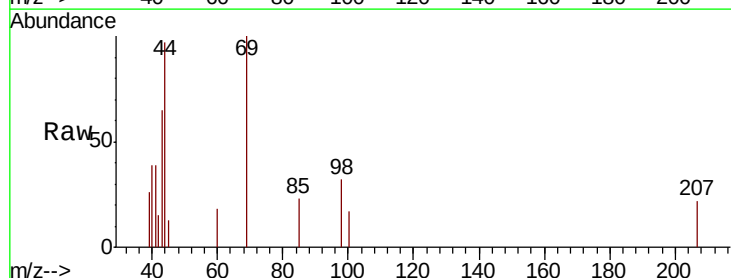
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

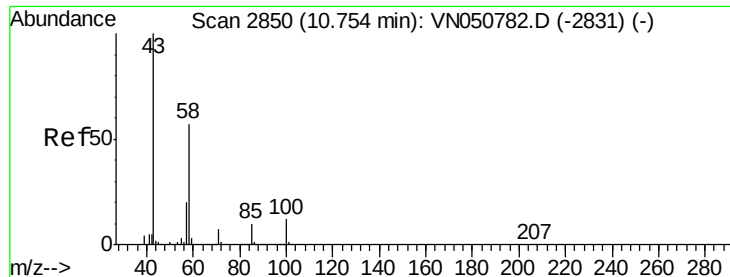
Tot Ion: 43 Resp: 2218
 Ion Ratio Lower Upper
 43 100
 58 27.5 32.4 48.6#



#56
 Ethyl methacrylate
 Concen: 2.63 ug/l
 RT: 10.23 min Scan# 2688
 Delta R.T. -0.20 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion: 69 Resp: 2948
 Ion Ratio Lower Upper
 69 100
 41 20.6 48.3 72.5#
 39 25.8 24.0 36.0





#59

2-Hexanone

Concen: 4.43 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

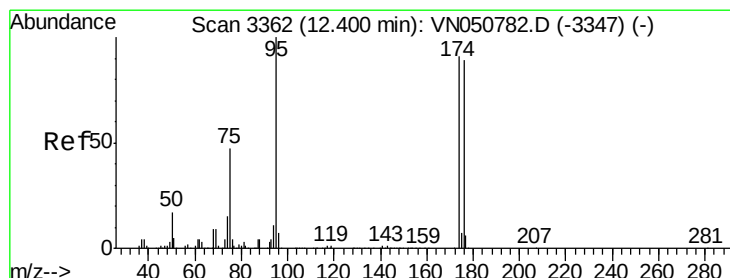
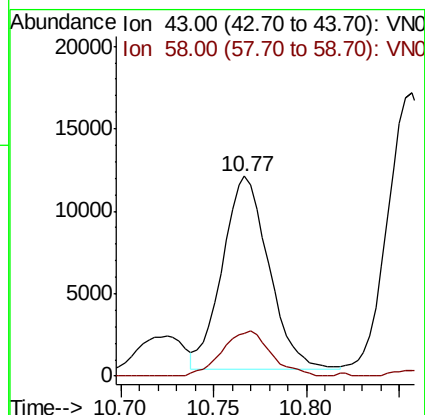
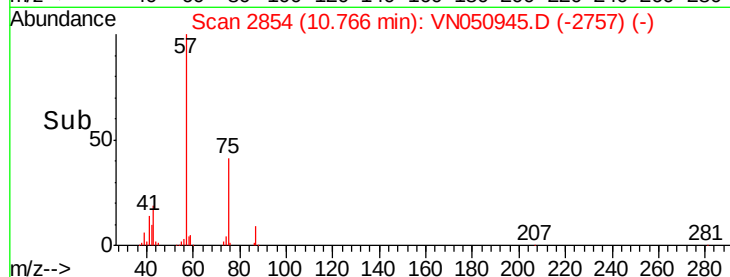
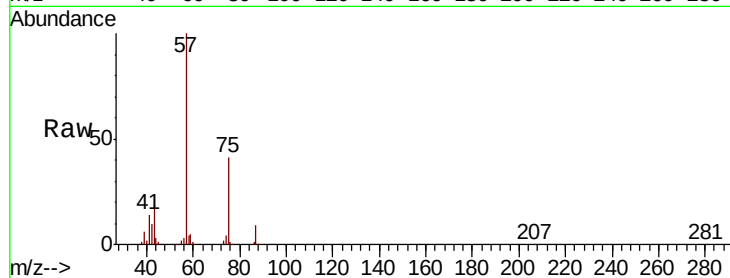
PB112452ZHE#01

Tot Ion: 43 Resp: 20481

Ion Ratio Lower Upper

43 100

58 24.5 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 37.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

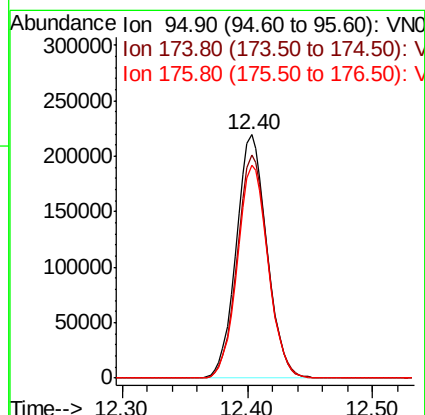
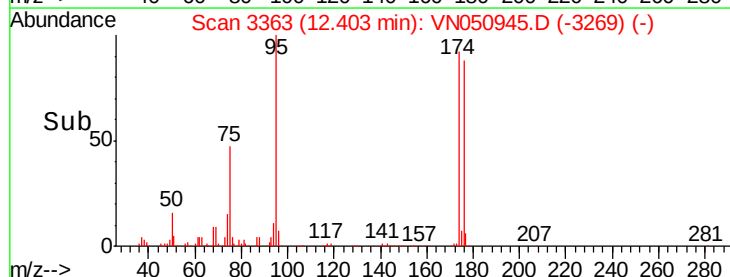
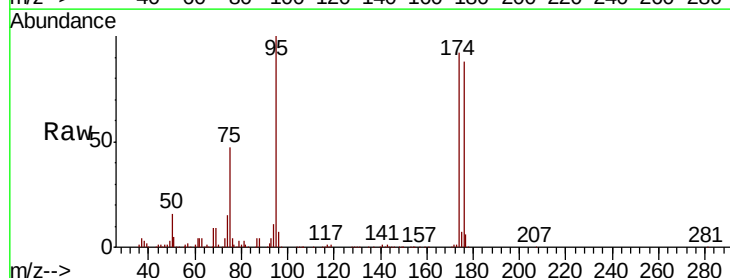
Tgt Ion: 95 Resp: 372101

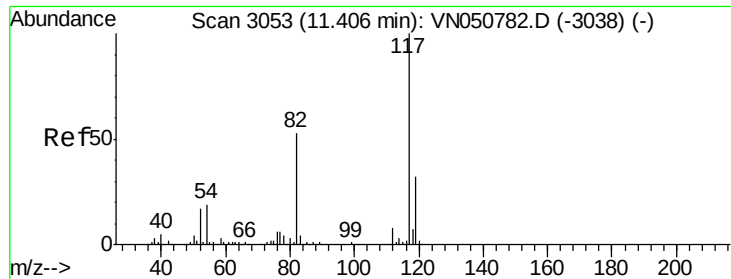
Ion Ratio Lower Upper

95 100

174 92.1 0.0 183.0

176 87.9 0.0 178.8

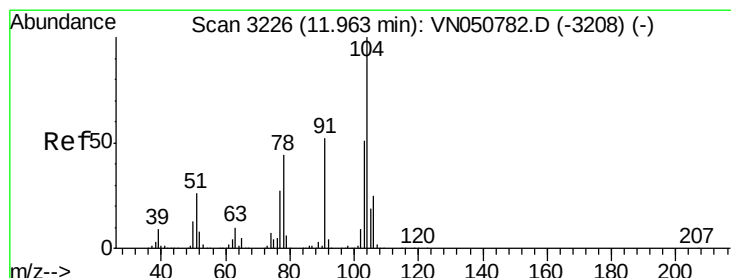
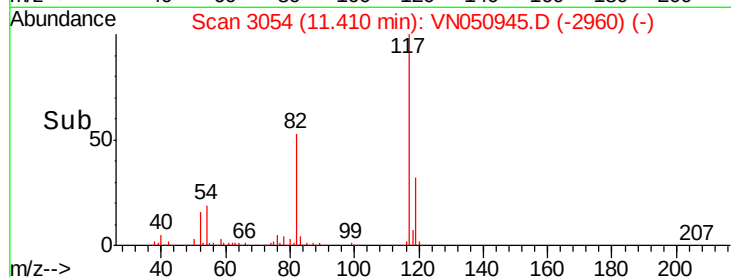
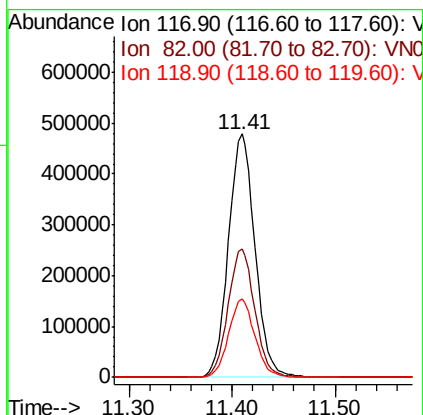
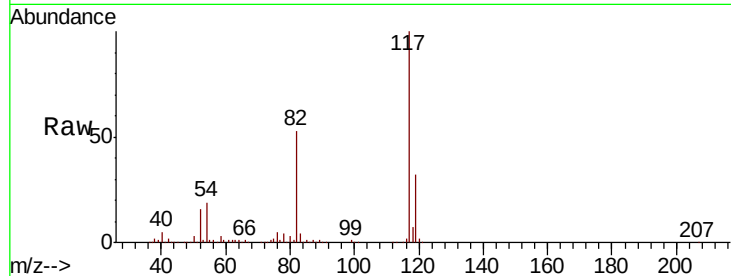




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

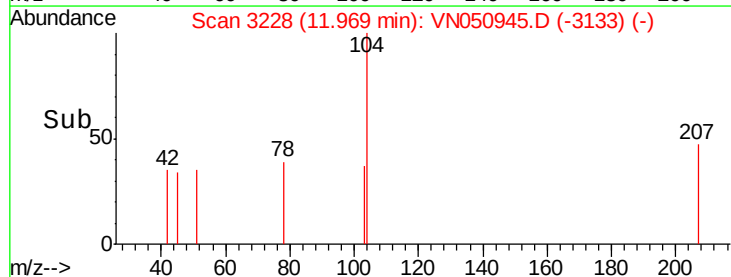
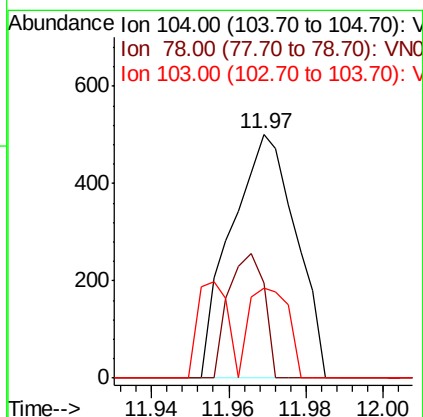
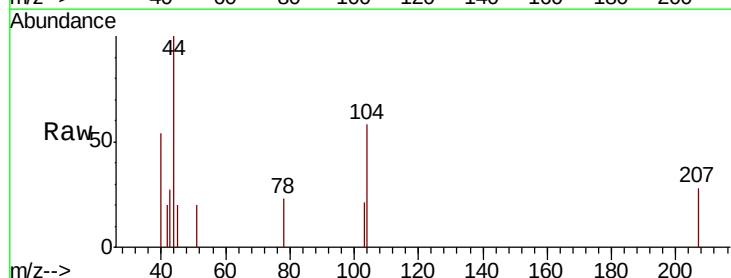
Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#01

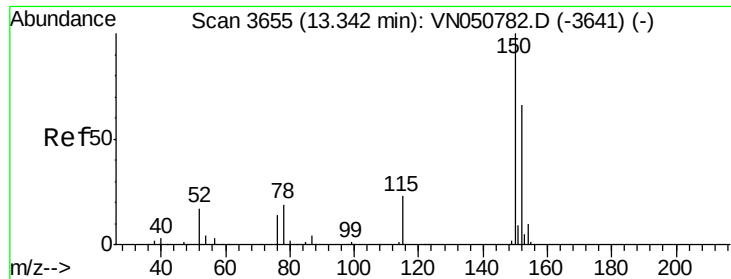
Tot Ion:117 Resp: 860099
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 32.1 25.8 38.6



#70
Styrene
Concen: 1.29 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050945.D
Acq: 29 Aug 2018 12:49

Tgt Ion:104 Resp: 583
Ion Ratio Lower Upper
104 100
78 28.0 38.2 57.4#
103 22.5 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#01

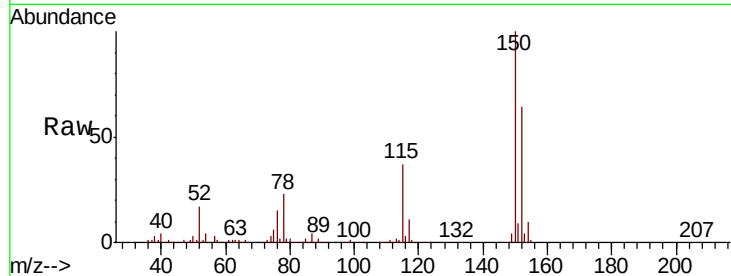
Tot Ion:152 Resp: 291164

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.4

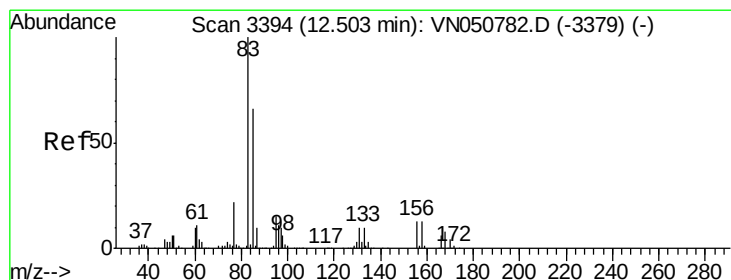
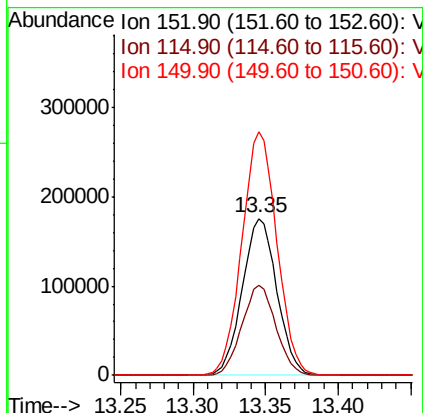
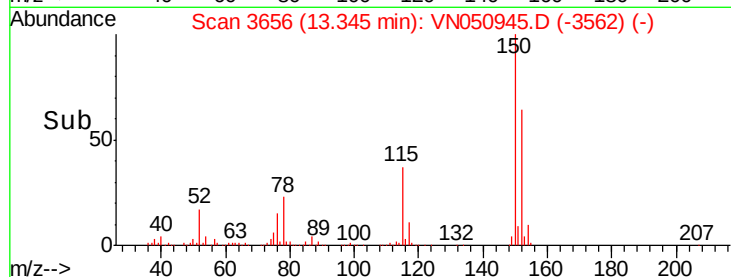
150 157.1 0.0 351.4



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: VN050945.D

Acq: 29 Aug 2018 12:49

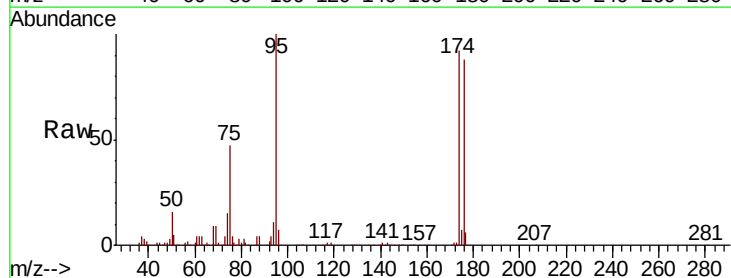
Tgt Ion: 83 Resp: 152

Ion Ratio Lower Upper

83 100

131 273.0 5.3 15.9#

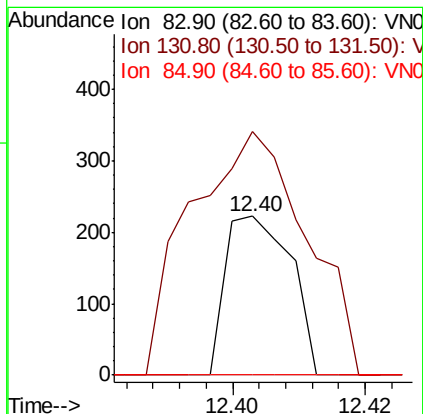
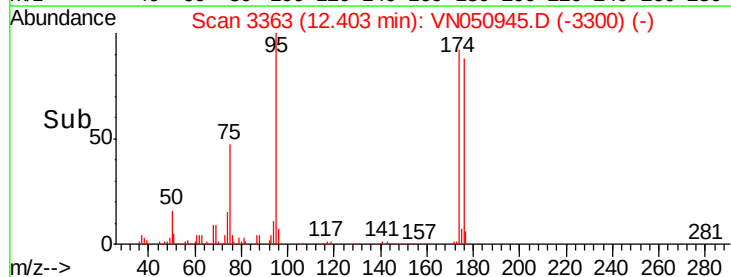
85 0.0 31.9 95.7#

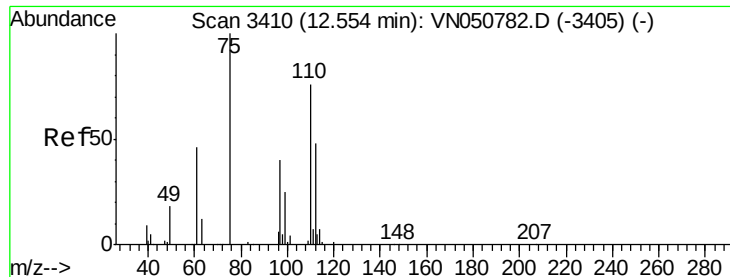


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

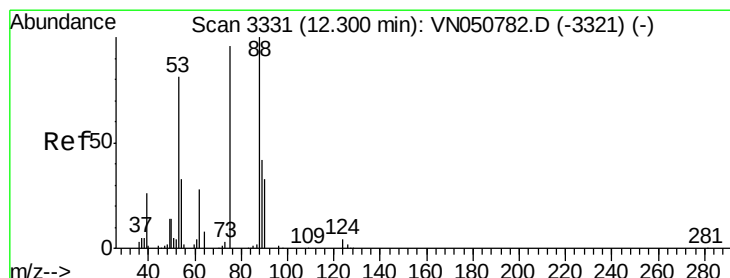
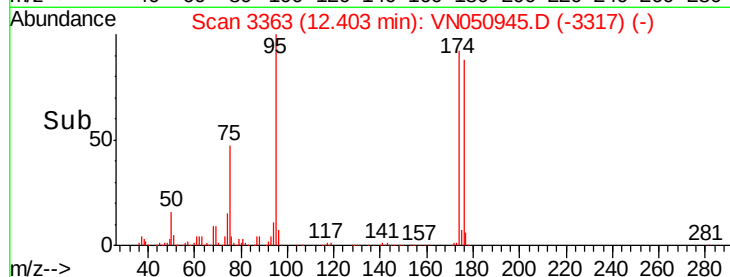
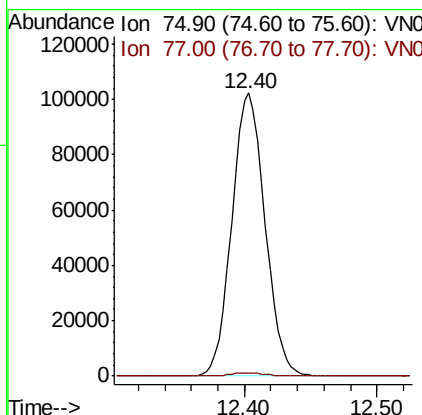
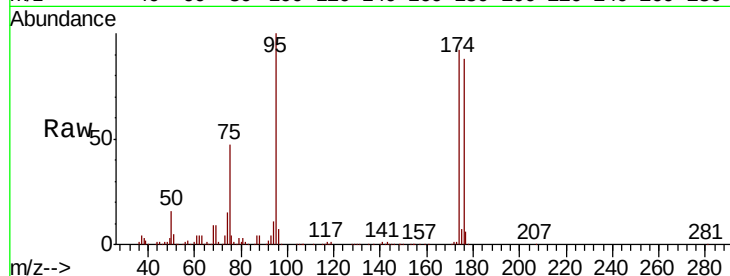




#76
 1,2,3-Trichloropropane
 Concen: 34.80 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

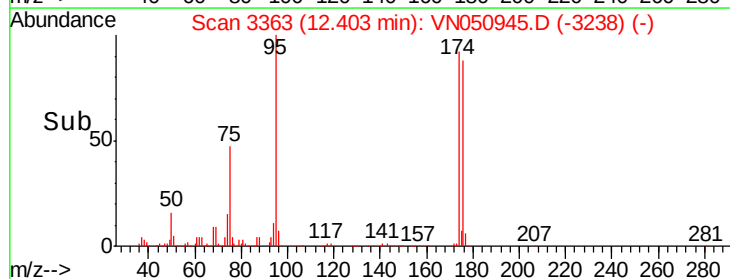
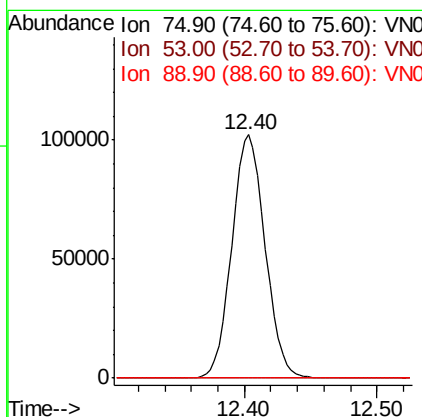
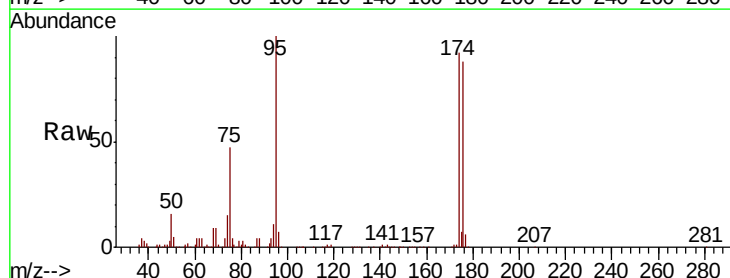
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

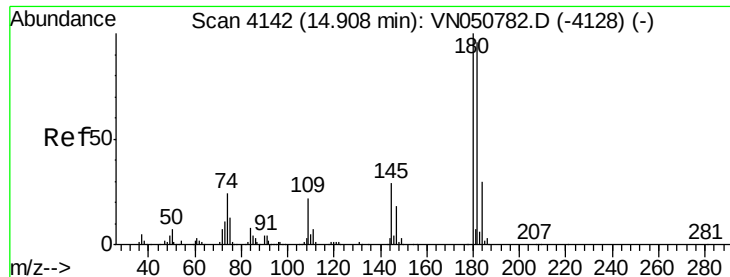
Tot Ion: 75 Resp: 177458
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.64 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion: 75 Resp: 177458
 Ion Ratio Lower Upper
 75 100
 53 0.2 68.9 103.3#
 89 0.0 36.1 54.1#

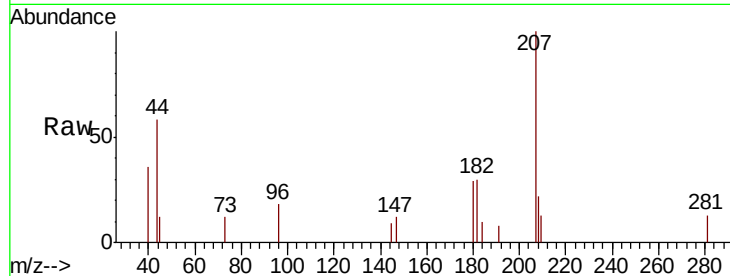




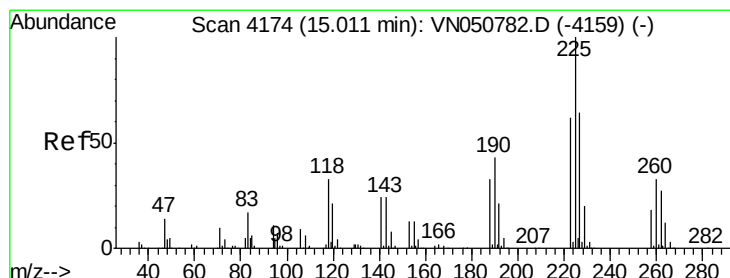
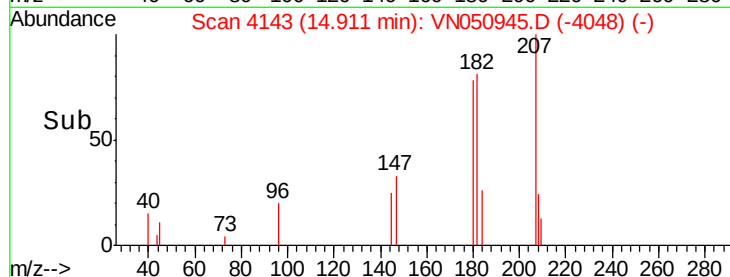
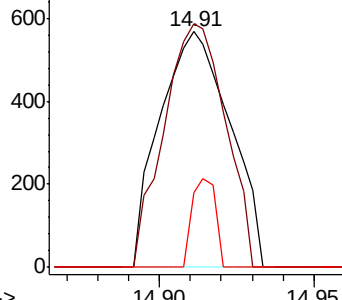
#93
 1,2,4-Trichlorobenzene
 Concen: 4.23 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#01

Tot Ion:180 Resp: 897
 Ion Ratio Lower Upper
 180 100
 182 90.2 48.2 144.6
 145 12.7 14.1 42.2#

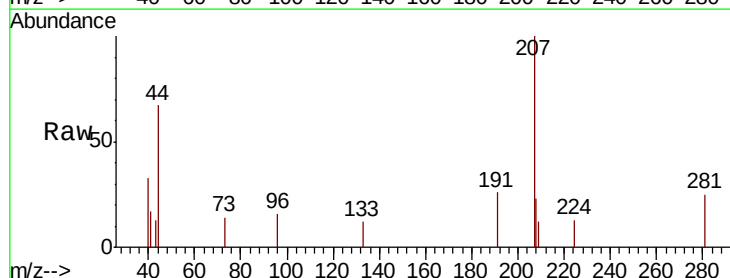


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

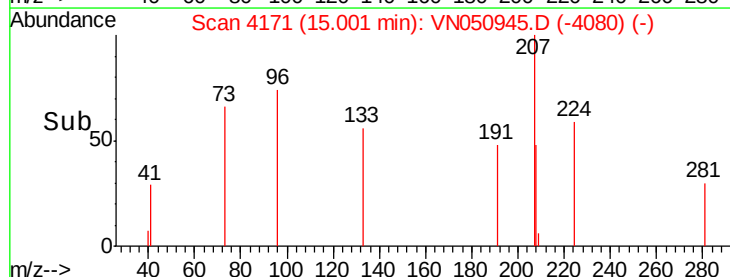
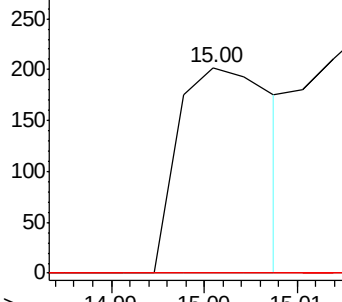


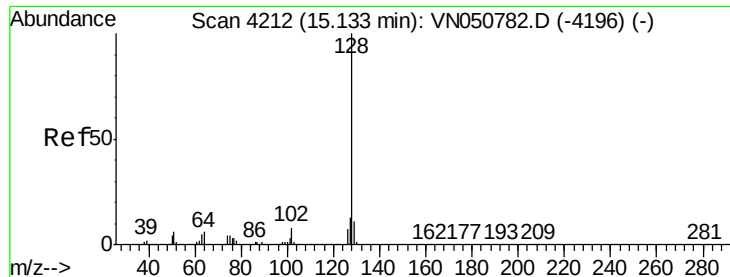
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4171
 Delta R.T. -0.01 min
 Lab File: VN050945.D
 Acq: 29 Aug 2018 12:49

Tgt Ion:225 Resp: 144
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.3 93.8#
 227 0.0 32.0 96.2#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.58 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#01

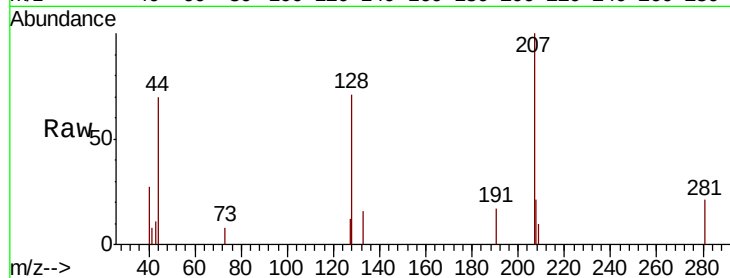
Tot Ion:128 Resp: 2391

Ion Ratio Lower Upper

128 100

127 8.0 10.5 15.7#

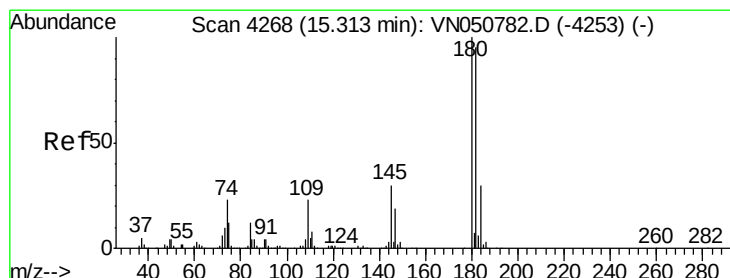
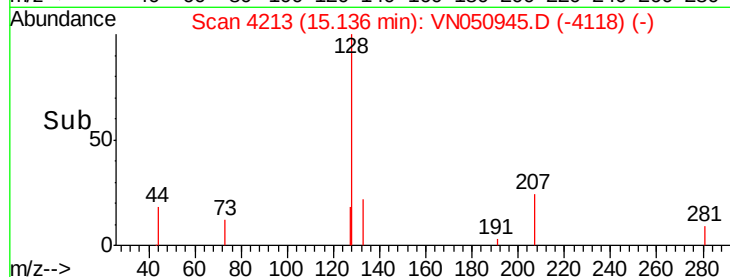
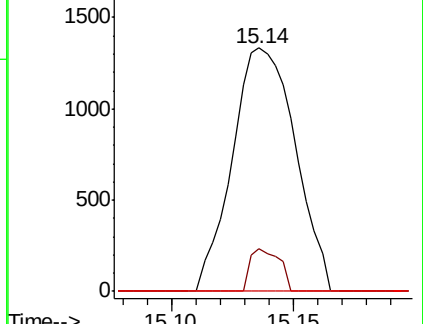
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.38 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050945.D

Acq: 29 Aug 2018 12:49

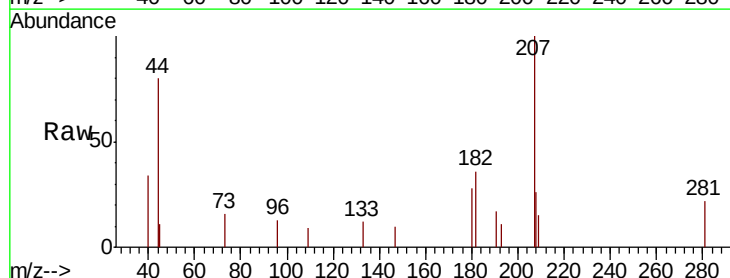
Tgt Ion:180 Resp: 445

Ion Ratio Lower Upper

180 100

182 204.0 48.0 144.2#

145 15.1 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

