

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049927.D
 Acq On : 19 Jul 2018 19:53
 Operator : MD\SY
 Sample : PB111251ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#14

Quant Time: Jul 20 01:31:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	549660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	949976	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	785647	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	299765	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	403734	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
35) Dibromofluoromethane	7.59	113	360845	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
50) Toluene-d8	10.09	98	1259956	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	
62) 4-Bromofluorobenzene	12.40	95	347997	34.77	ug/l	0.00
Spiked Amount			Recovery	=	69.54%	

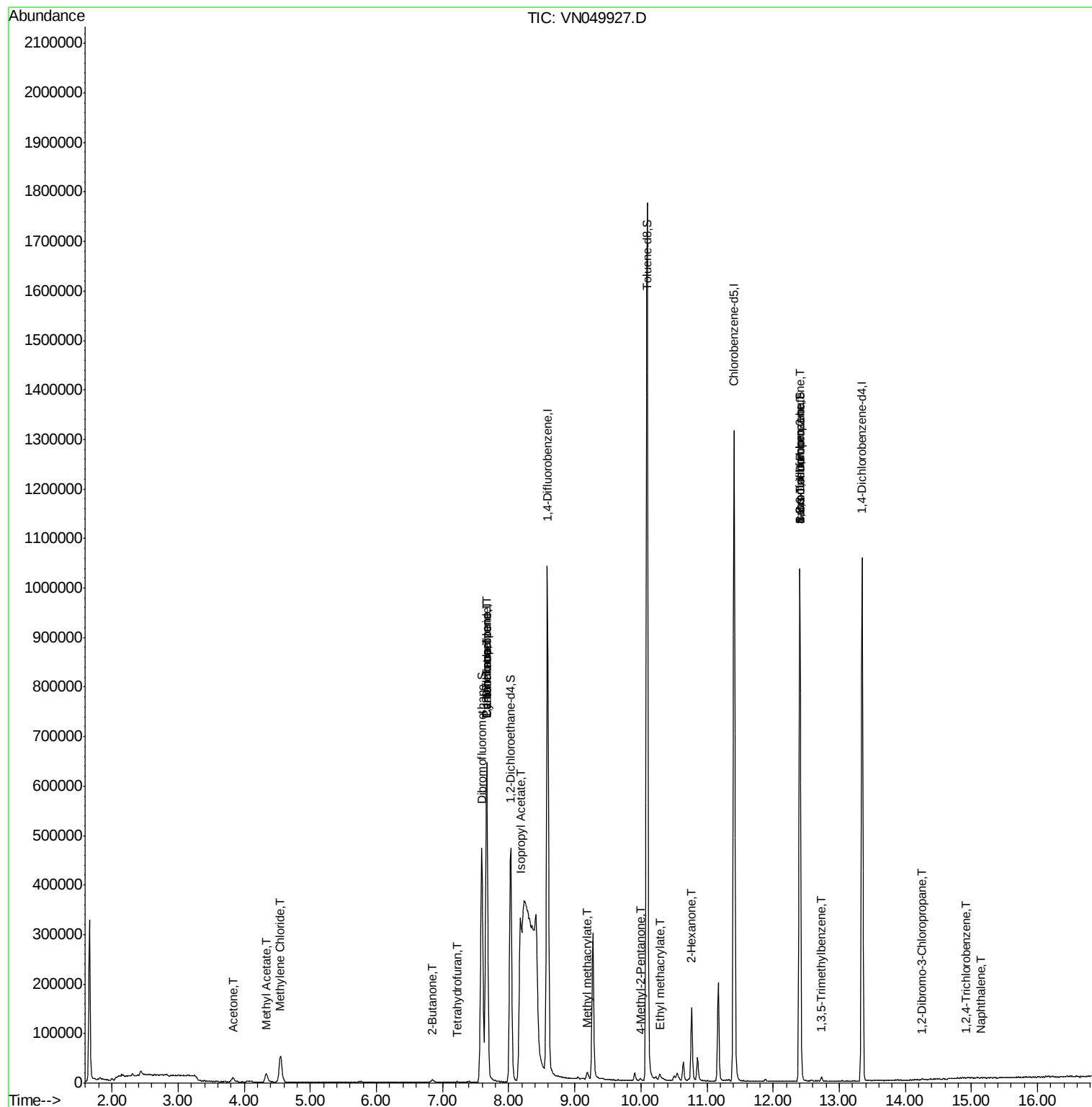
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	321	Below Cal	#	51
16) Acetone	3.83	43	16201	8.28	ug/l	97
18) Methyl Acetate	4.33	43	32178	4.48	ug/l	99
20) Methylene Chloride	4.55	84	41247	5.55	ug/l	95
25) 2-Butanone	6.86	43	1956	0.70	ug/l	91
29) Tetrahydrofuran	7.21	42	689	0.39	ug/l	# 51
31) Cyclohexane	7.67	56	10390	1.03	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	39668	3.76	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	49405	4.37	ug/l	# 17
43) Isopropyl Acetate	8.18	43	376436	29.71	ug/l	# 89
48) Methyl methacrylate	9.18	41	8333	1.31	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.99	43	2362	0.33	ug/l	90
56) Ethyl methacrylate	10.27	69	141	2.17	ug/l	# 1
59) 2-Hexanone	10.77	43	20747	4.36	ug/l	# 56
71) Bromoform	12.41	173	3194	0.58	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	172048	30.60	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	3831	0.21	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	172048	95.67	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	310	0.29	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.91	180	59	3.49	ug/l	# 13
95) Naphthalene	15.13	128	99	4.50	ug/l	# 69

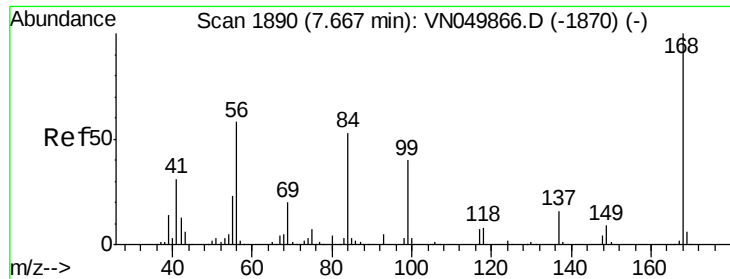
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 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: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

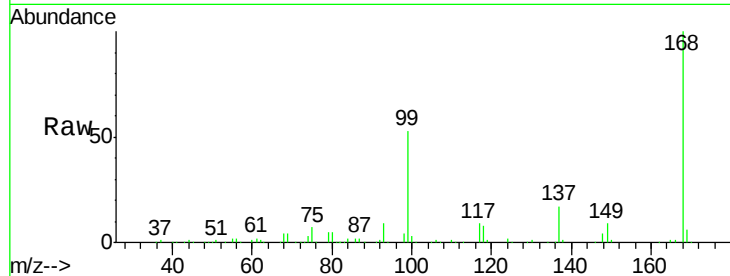
PB111251ZHE#14

Tot Ion:168 Resp: 549660

Ion Ratio Lower Upper

168 100

99 52.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

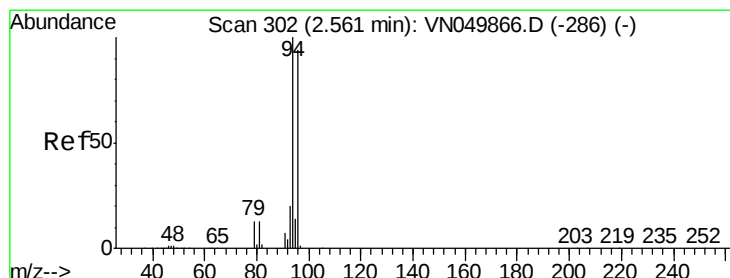
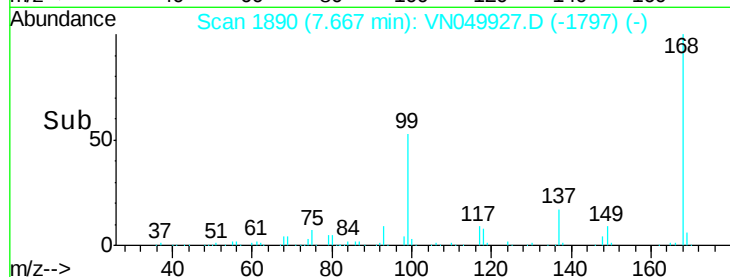
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. -0.00 min

Lab File: VN049927.D

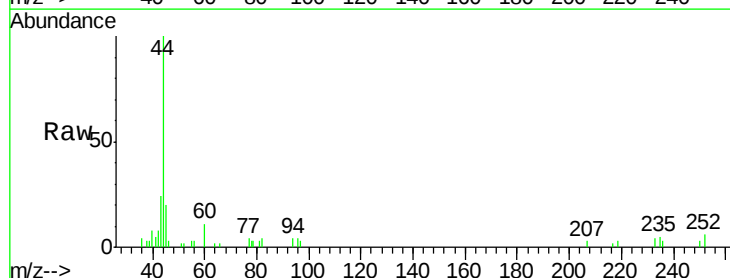
Acq: 19 Jul 2018 19:53

Tgt Ion: 94 Resp: 321

Ion Ratio Lower Upper

94 100

96 46.9 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

300

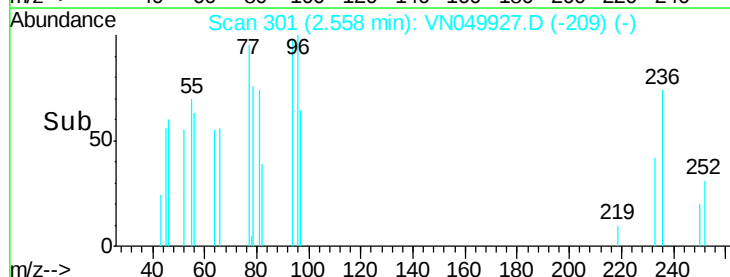
200

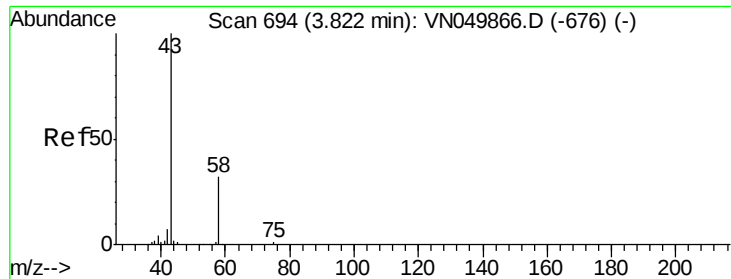
100

0

Time-->

2.54 2.55 2.56 2.57 2.58





#16

Acetone

Concen: 8.28 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

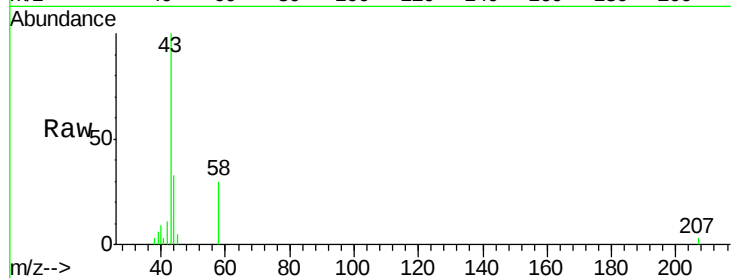
PB111251ZHE#14

Tot Ion: 43 Resp: 16201

Ion Ratio Lower Upper

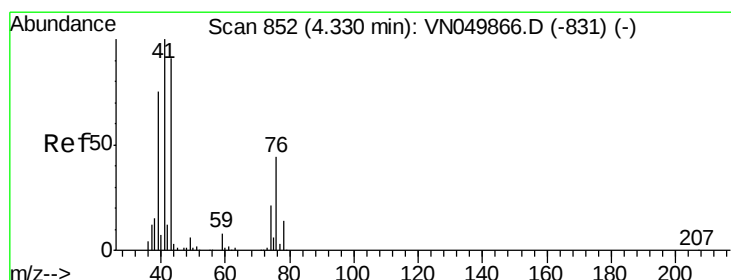
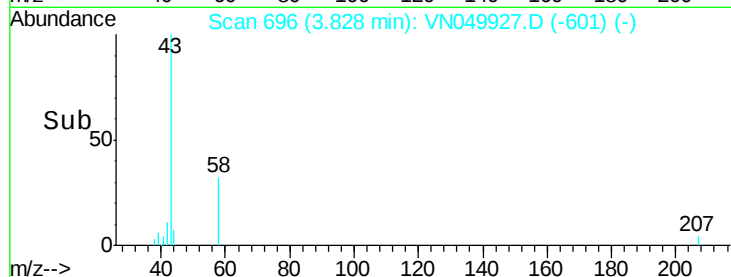
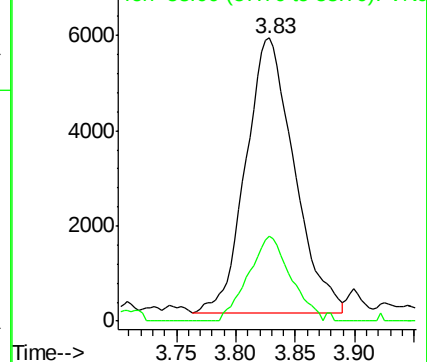
43 100

58 30.8 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 4.48 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049927.D

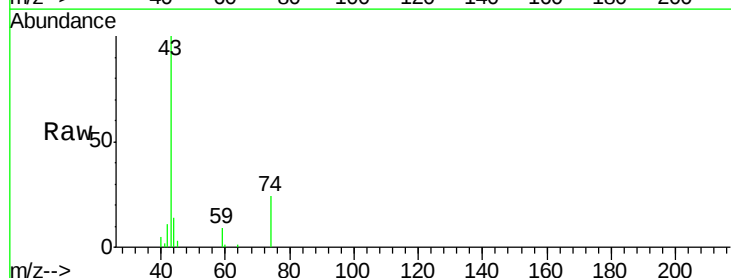
Acq: 19 Jul 2018 19:53

Tgt Ion: 43 Resp: 32178

Ion Ratio Lower Upper

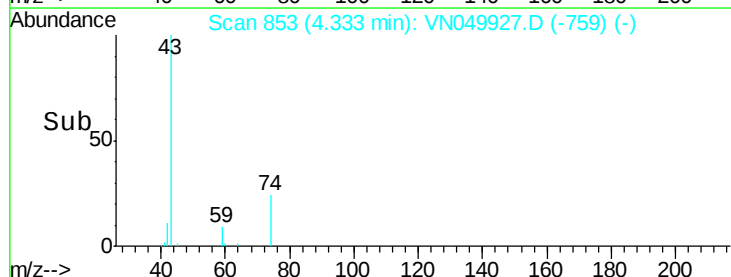
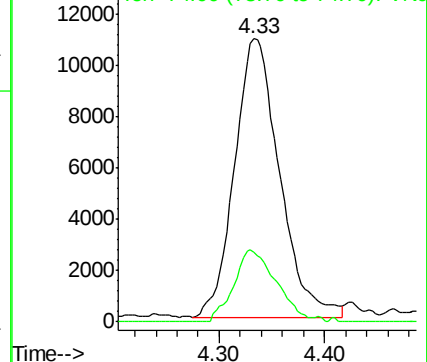
43 100

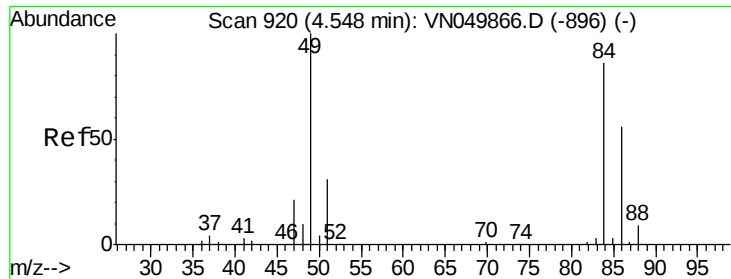
74 24.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

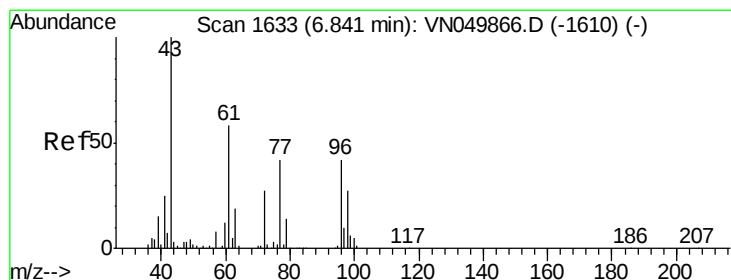
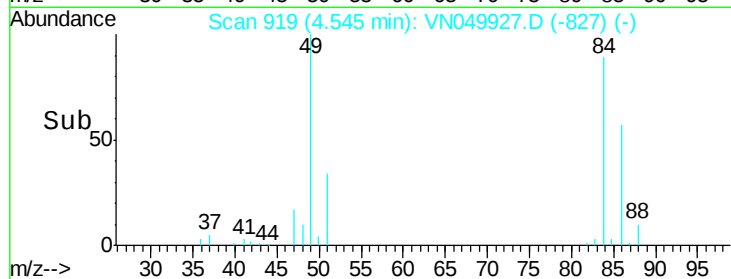
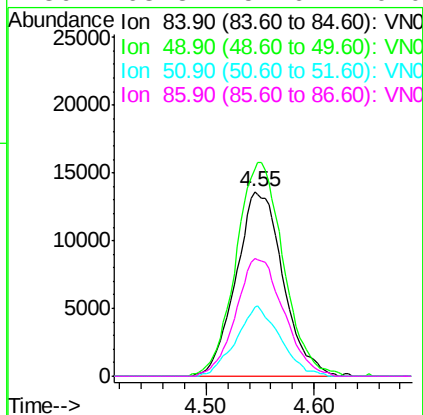
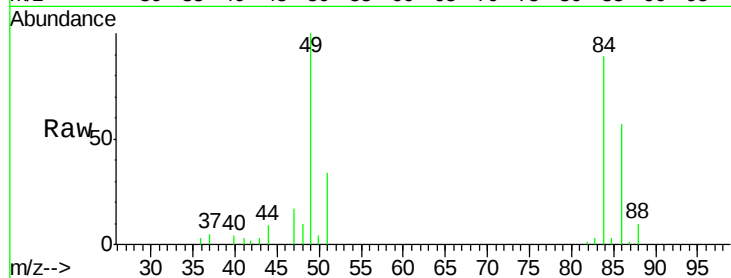




#20
Methvlene Chloride
Concen: 5.55 ug/l
RT: 4.55 min Scan# 919
Delta R.T. -0.00 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

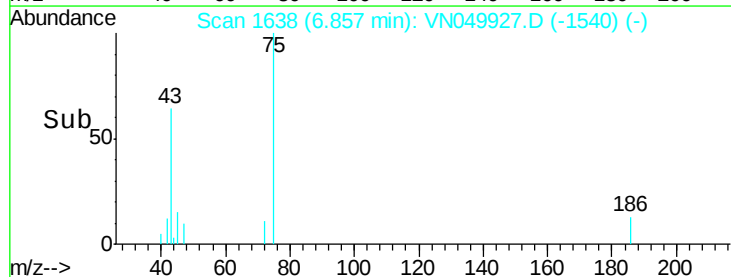
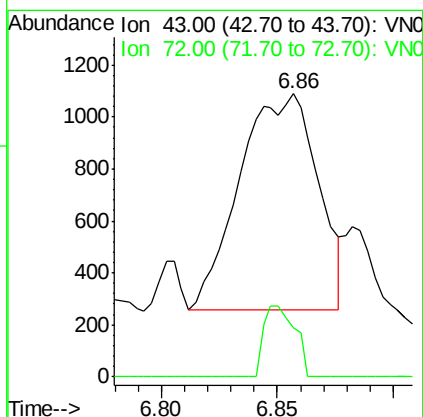
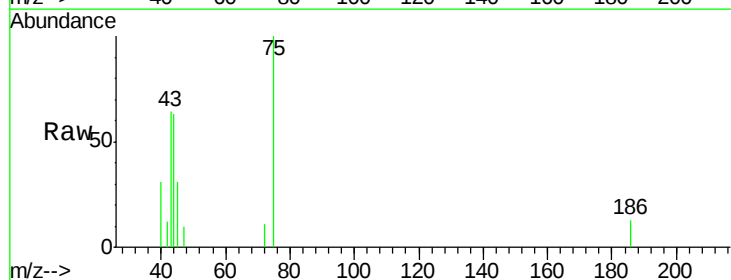
Instrument :
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PB111251ZHE#14

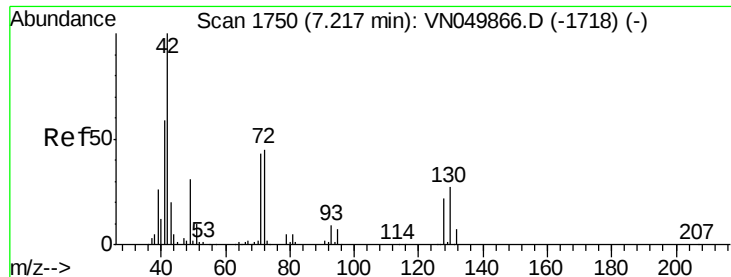
Tot Ion:	84	Resp:	41247
Ion	Ratio	Lower	Upper
84	100		
49	112.4	95.4	143.2
51	37.8	28.4	42.6
86	63.8	52.6	79.0



#25
2-Butanone
Concen: 0.70 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

Tgt Ion:	43	Resp:	1956
Ion	Ratio	Lower	Upper
43	100		
72	22.8	22.1	33.1

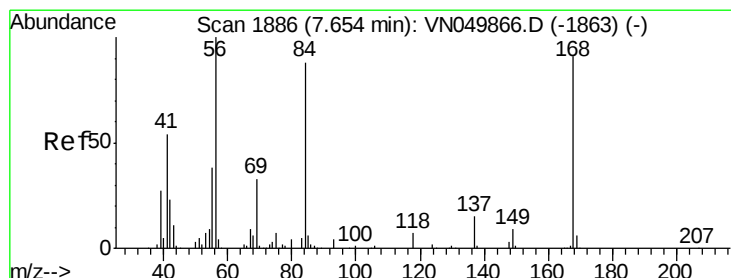
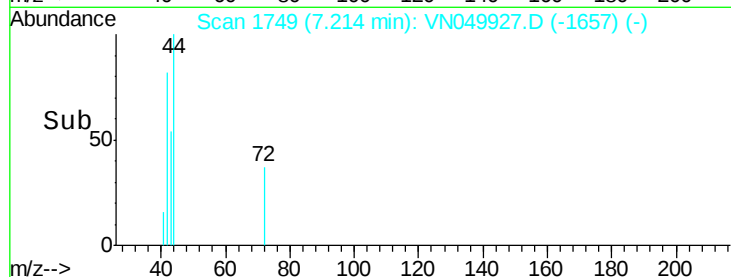
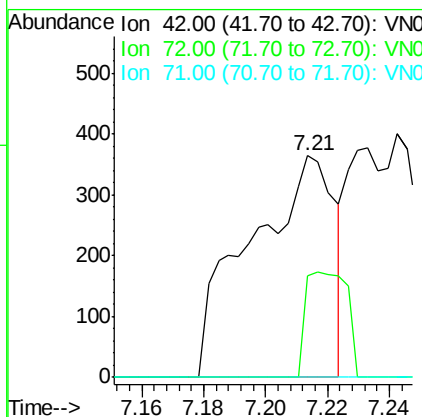
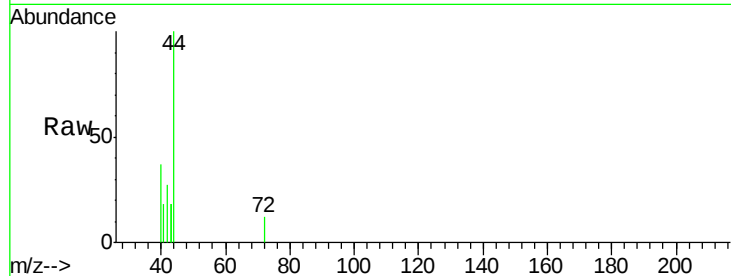




#29
Tetrahydrofuran
Concen: 0.39 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

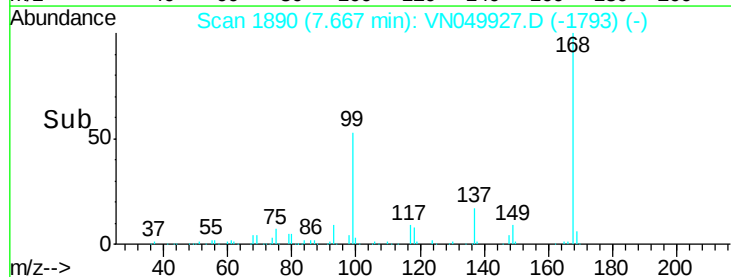
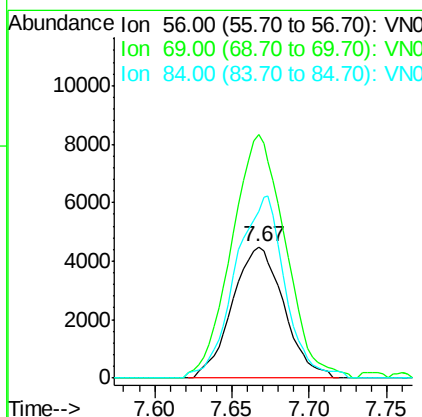
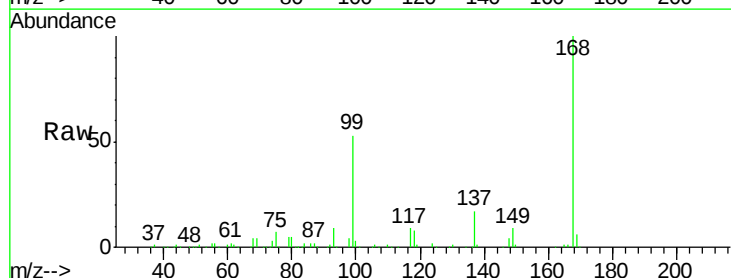
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#14

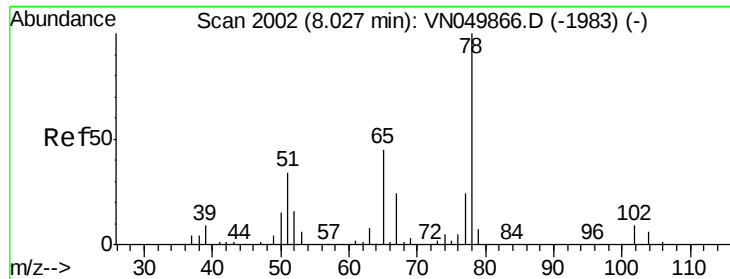
Tot Ion: 42 Resp: 689
Ion Ratio Lower Upper
42 100
72 23.1 35.6 53.4#
71 0.0 34.0 51.0#



#31
Cyclohexane
Concen: 1.03 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

Tgt Ion: 56 Resp: 10390
Ion Ratio Lower Upper
56 100
69 181.8 26.6 40.0#
84 122.9 69.0 103.6#

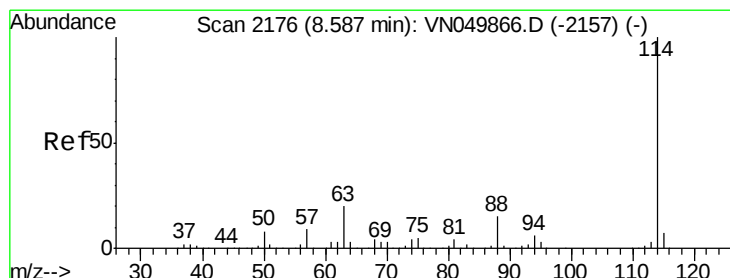
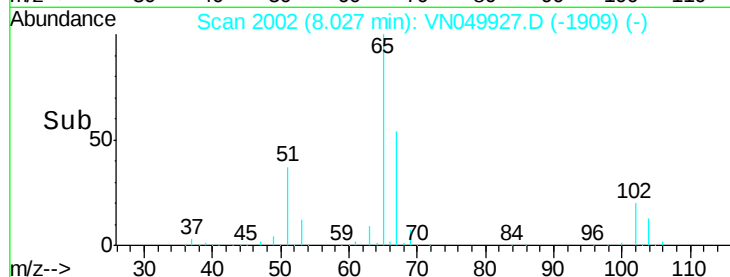
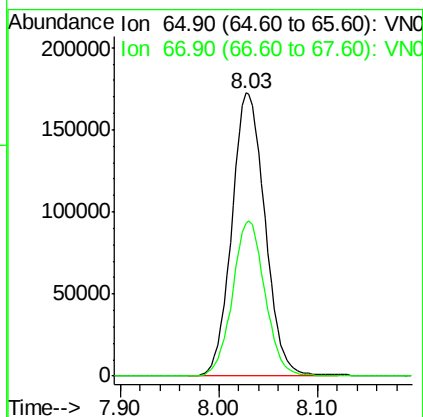
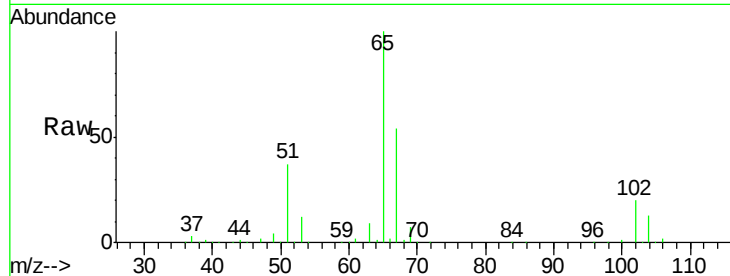




#33
 1,2-Dichloroethane-d4
 Concen: 53.44 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049927.D
 Acq: 19 Jul 2018 19:53

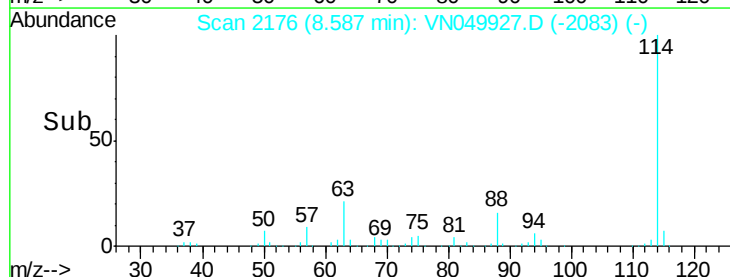
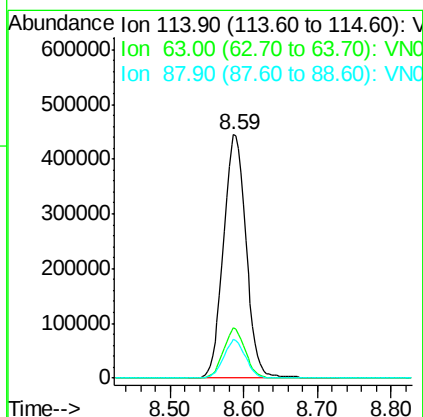
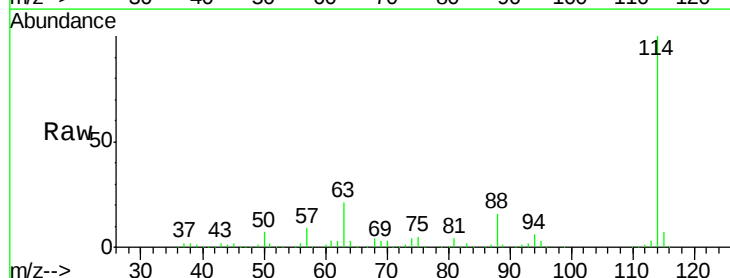
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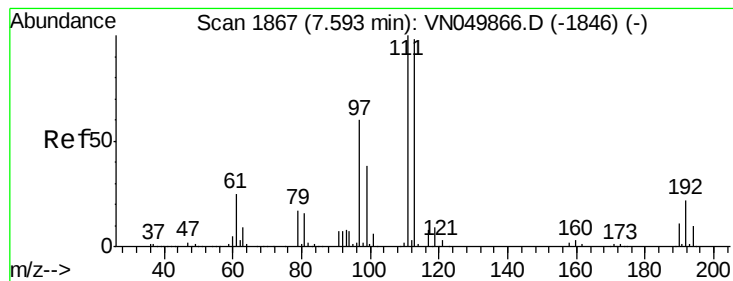
Tot Ion: 65 Resp: 403734
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049927.D
 Acq: 19 Jul 2018 19:53

Tgt Ion: 114 Resp: 949976
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.8
 88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 45.25 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#14

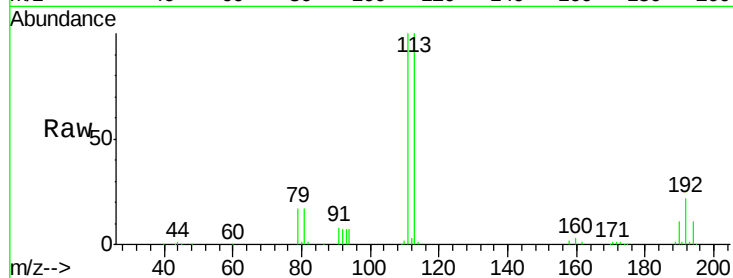
Tot Ion:113 Resp: 360845

Ion Ratio Lower Upper

113 100

111 100.6 81.8 122.8

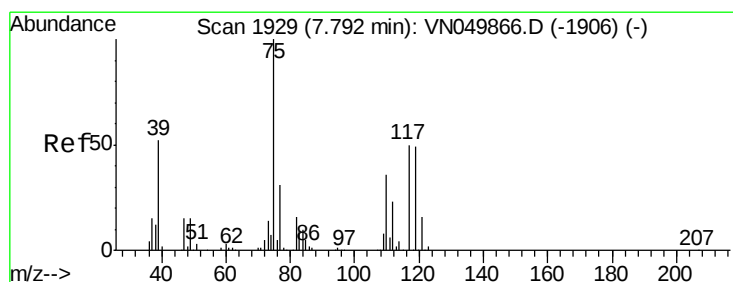
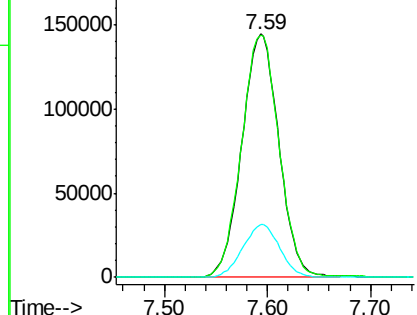
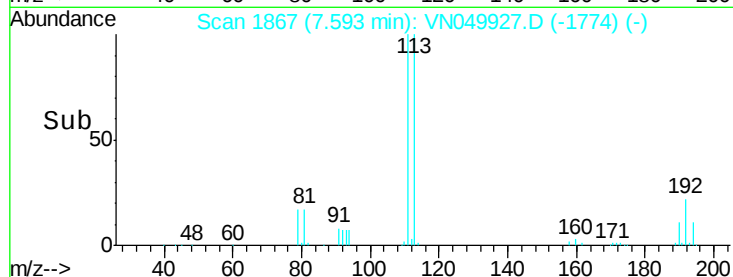
192 21.8 17.8 26.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.76 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.12 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

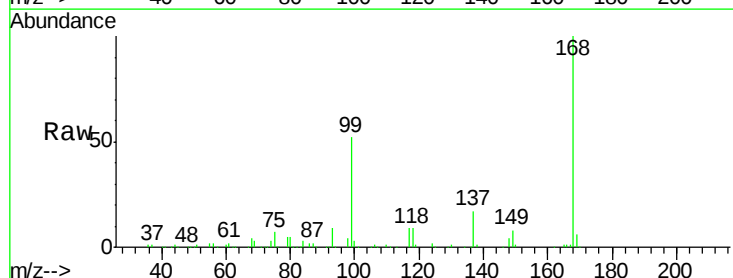
Tgt Ion: 75 Resp: 39668

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

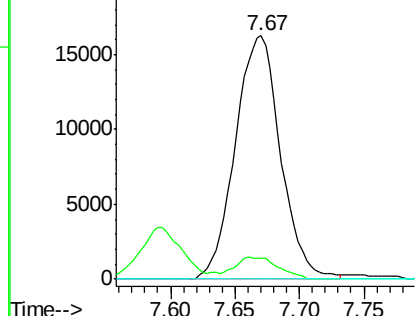
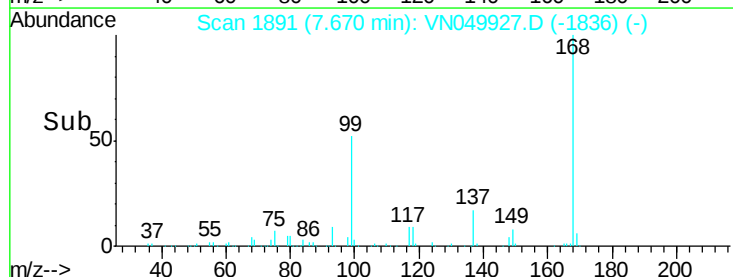
77 0.0 24.9 37.3#

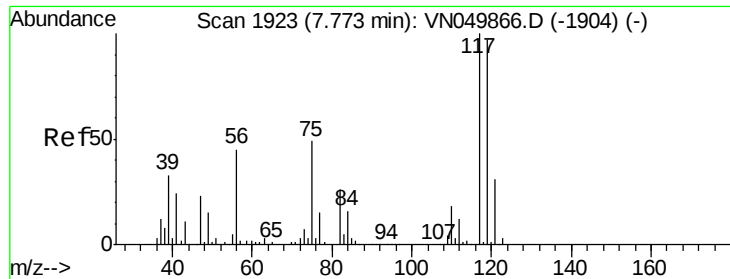


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

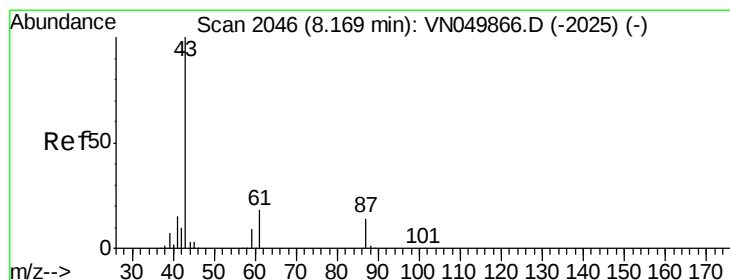
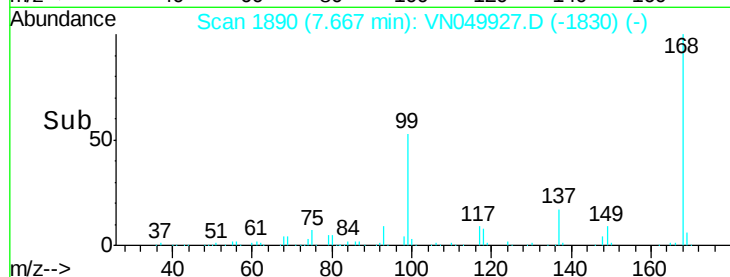
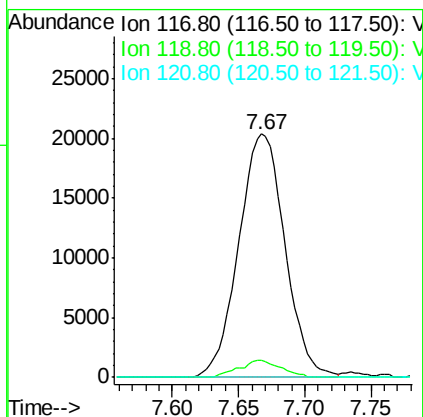
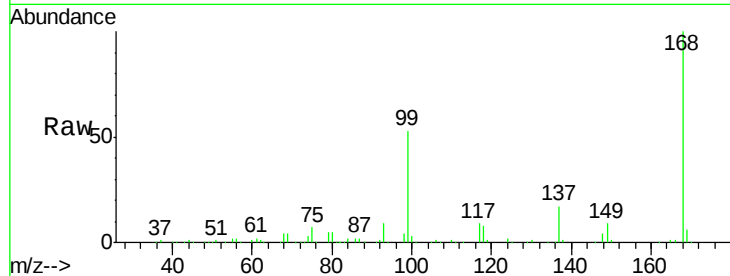




#38
Carbon Tetrachloride
Concen: 4.37 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

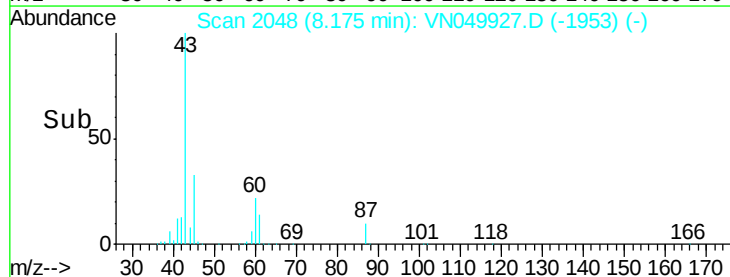
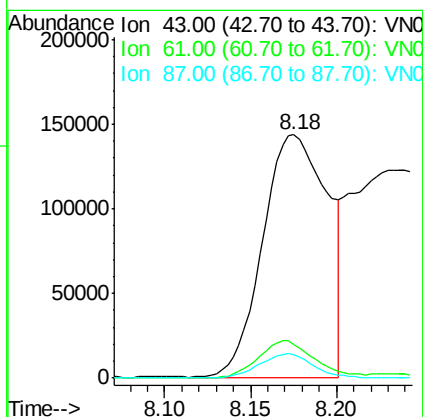
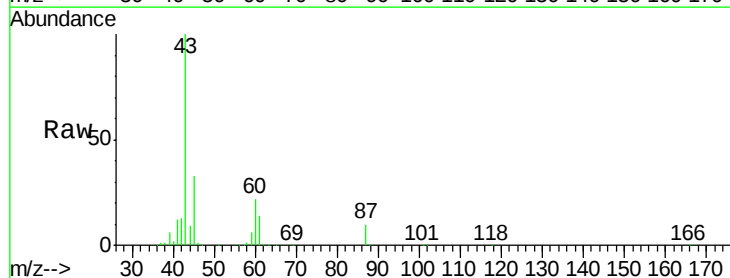
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#14

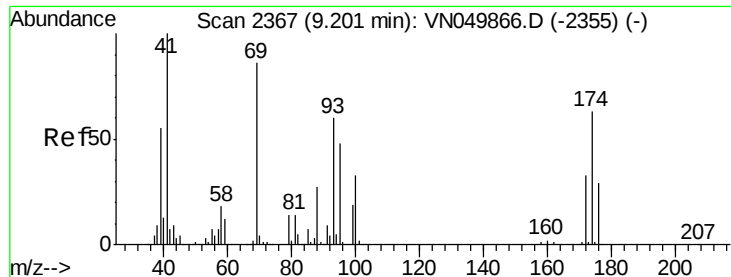
Tot Ion:117 Resp: 49405
Ion Ratio Lower Upper
117 100
119 6.8 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 29.71 ug/l
RT: 8.18 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

Tgt Ion: 43 Resp: 376436
Ion Ratio Lower Upper
43 100
61 13.3 14.9 22.3#
87 8.3 10.0 15.0#

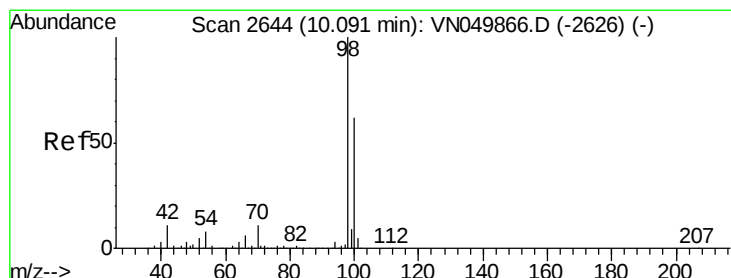
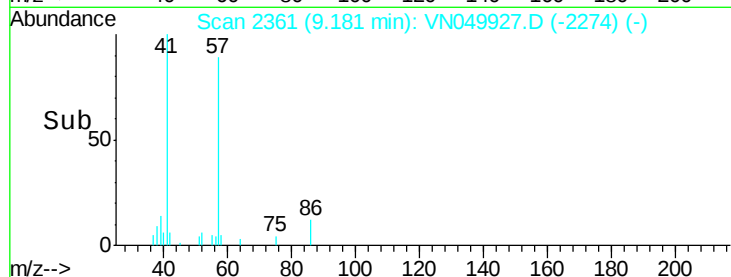
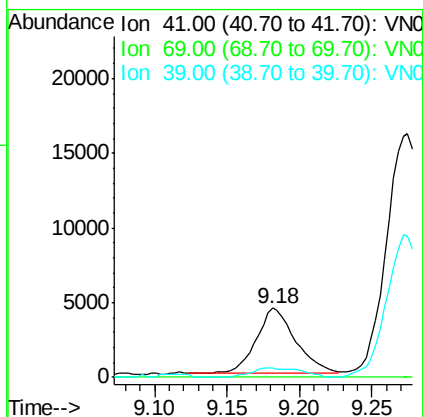
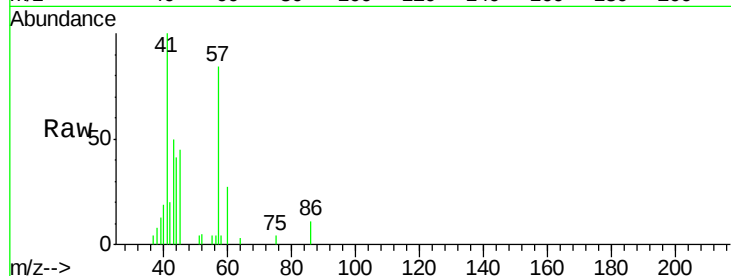




#48
Methvl methacrylate
Concen: 1.31 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

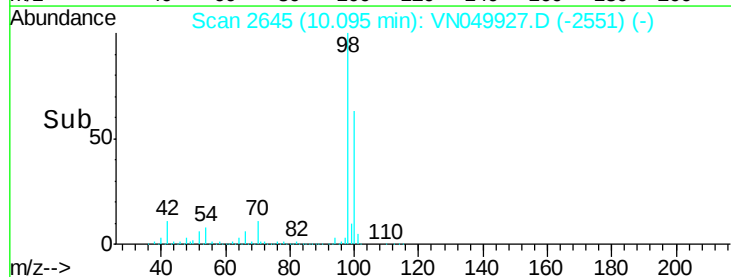
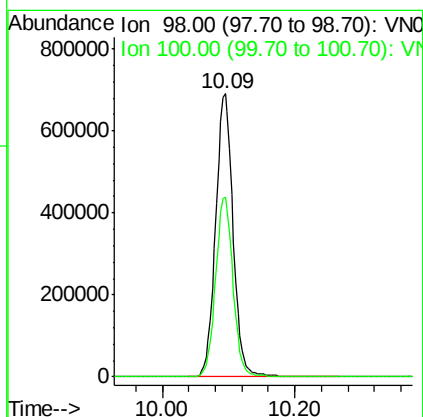
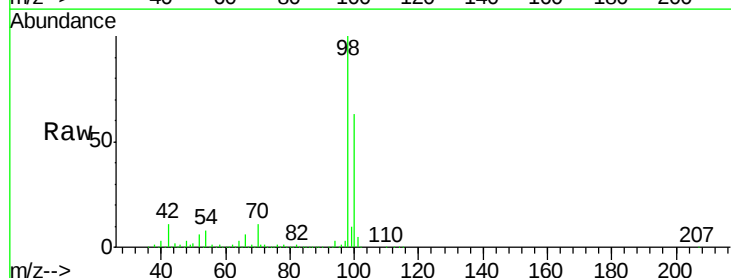
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#14

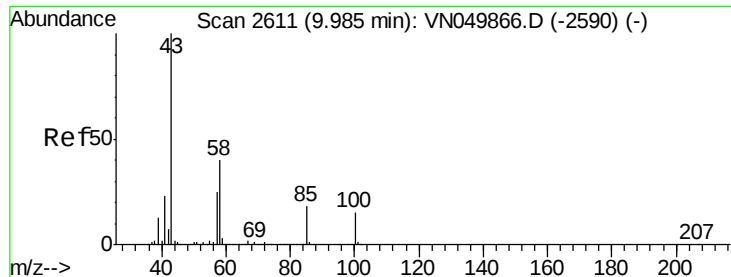
Tot Ion: 41 Resp: 8333
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 18.2 44.7 67.1#



#50
Toluene-d8
Concen: 43.36 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

Tgt Ion: 98 Resp: 1259956
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

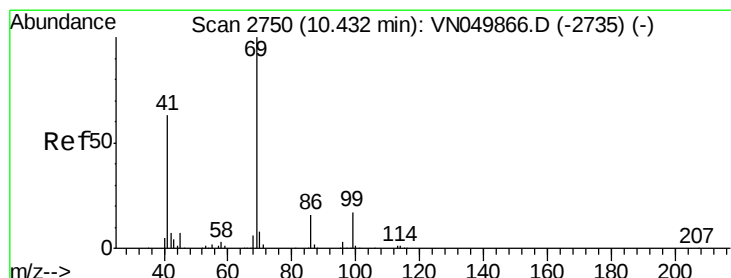
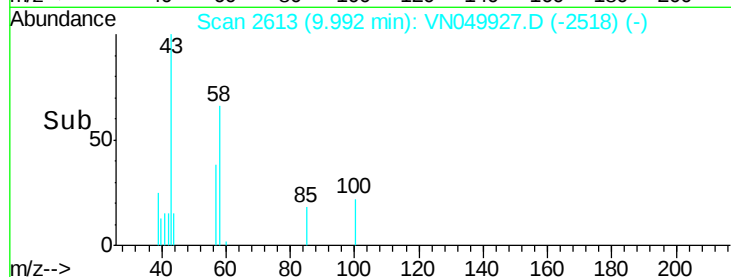
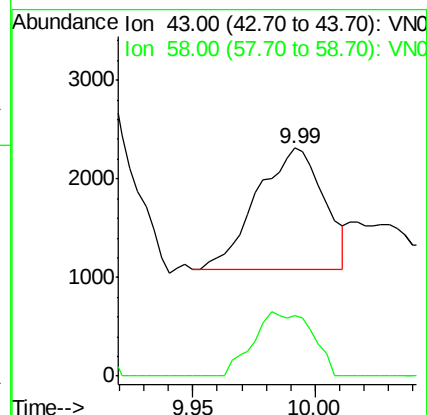
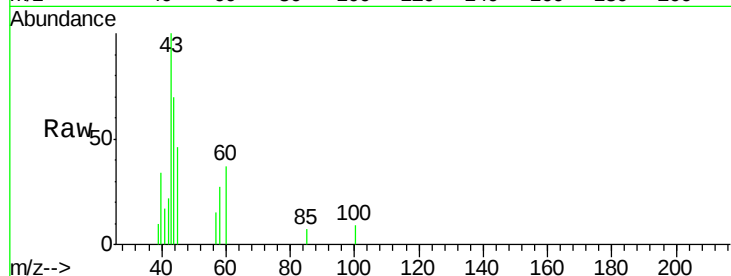
PB111251ZHE#14

Tot Ion: 43 Resp: 2362

Ion Ratio Lower Upper

43 100

58 45.7 31.8 47.8



#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.27 min Scan# 2701

Delta R.T. -0.16 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

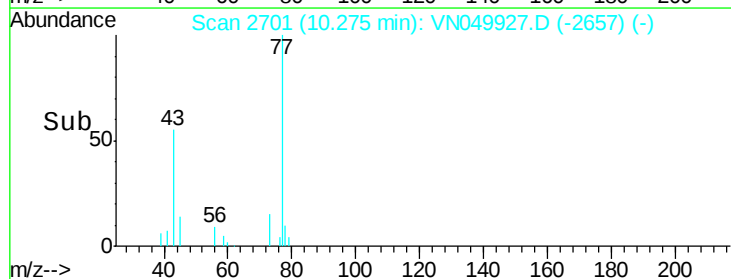
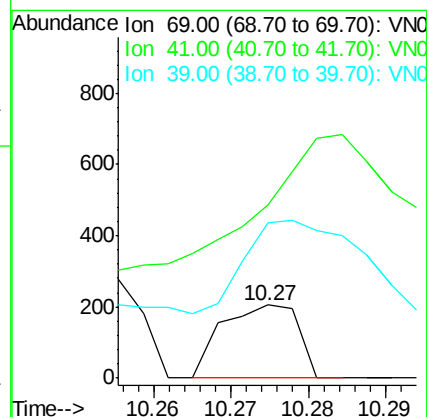
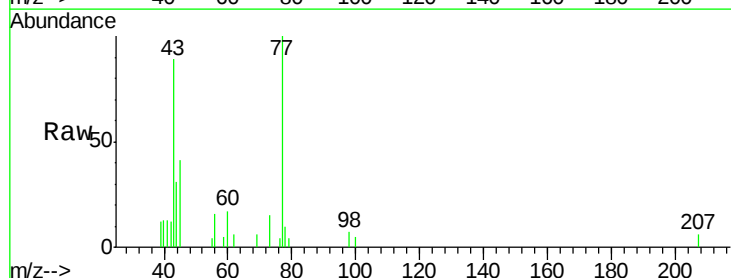
Tgt Ion: 69 Resp: 141

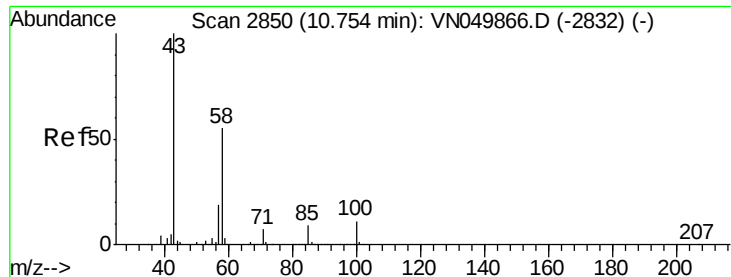
Ion Ratio Lower Upper

69 100

41 944.7 51.6 77.4#

39 434.8 25.8 38.8#





#59

2-Hexanone

Concen: 4.36 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

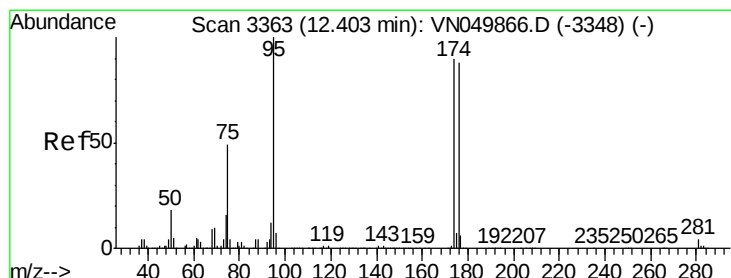
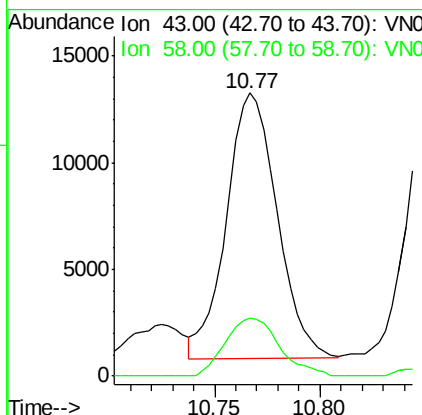
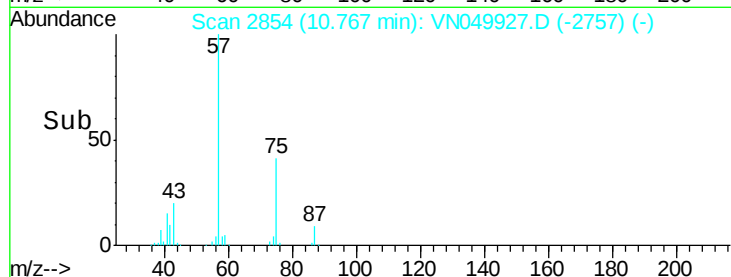
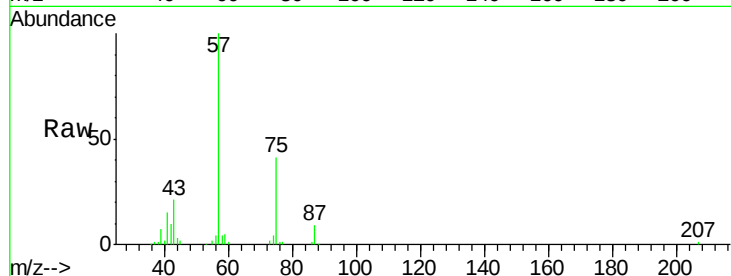
PB111251ZHE#14

Tot Ion: 43 Resp: 20747

Ion Ratio Lower Upper

43 100

58 23.4 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.77 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

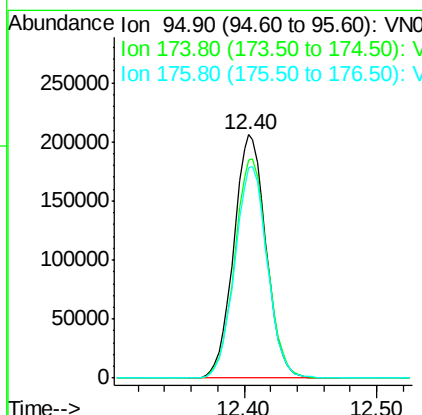
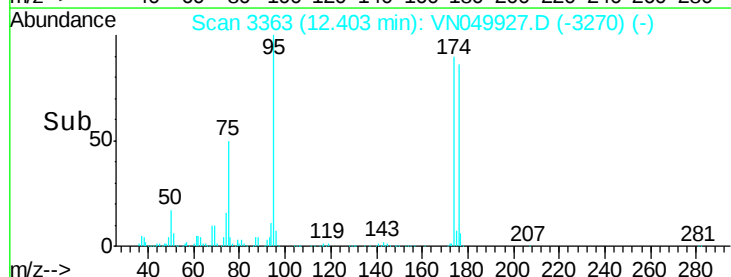
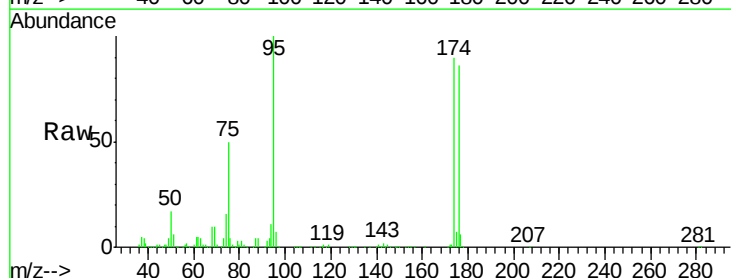
Tgt Ion: 95 Resp: 347997

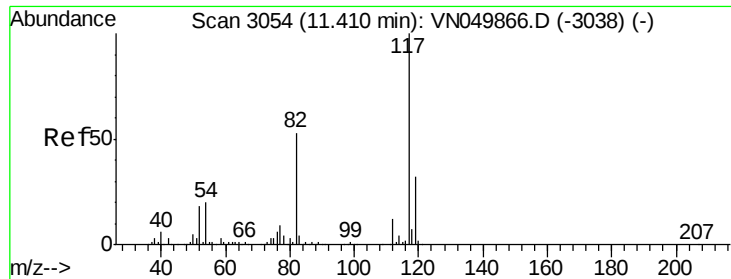
Ion Ratio Lower Upper

95 100

174 91.3 0.0 179.6

176 87.2 0.0 174.0

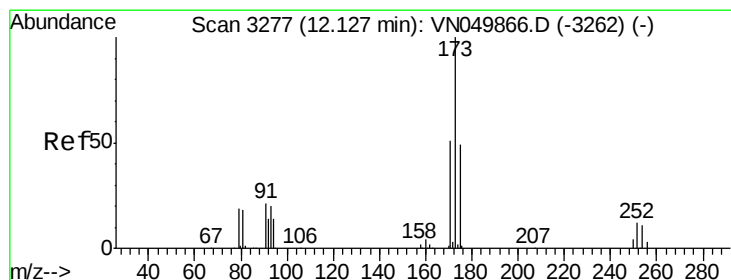
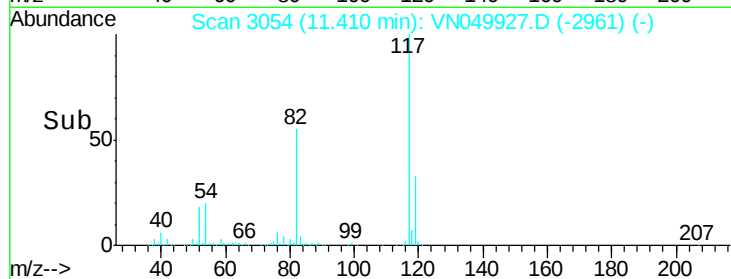
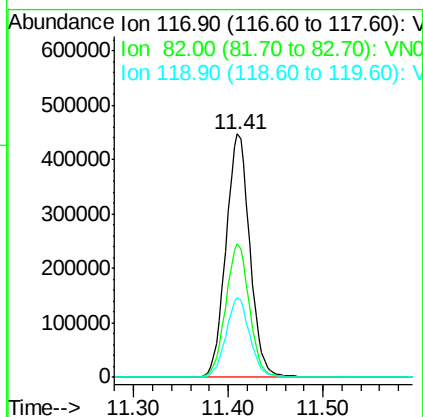
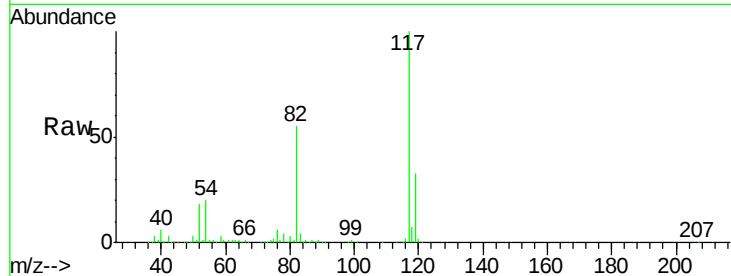




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

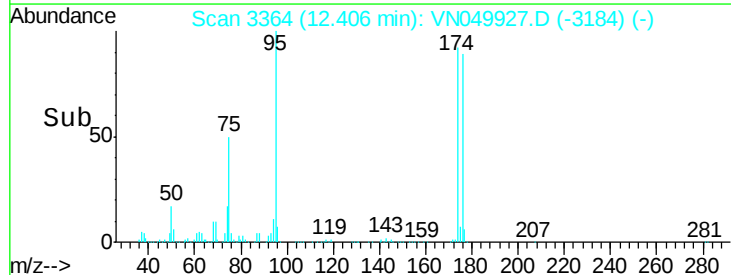
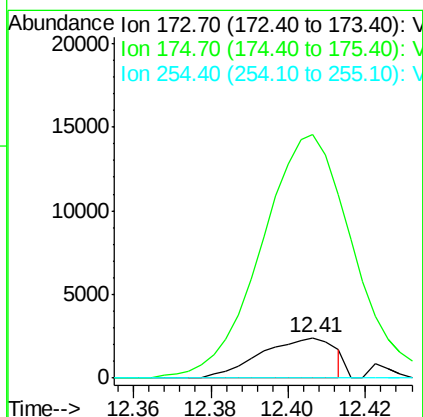
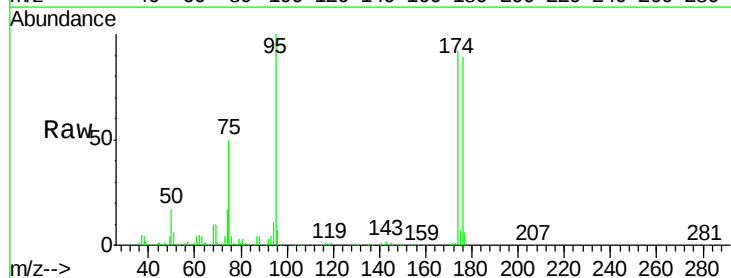
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#14

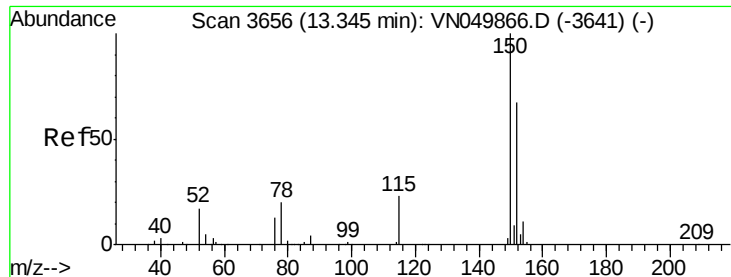
Tot Ion:117 Resp: 785647
Ion Ratio Lower Upper
117 100
82 54.8 41.9 62.9
119 32.9 25.4 38.2



#71
Bromoform
Concen: 0.58 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049927.D
Acq: 19 Jul 2018 19:53

Tgt Ion:173 Resp: 3194
Ion Ratio Lower Upper
173 100
175 605.1 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#14

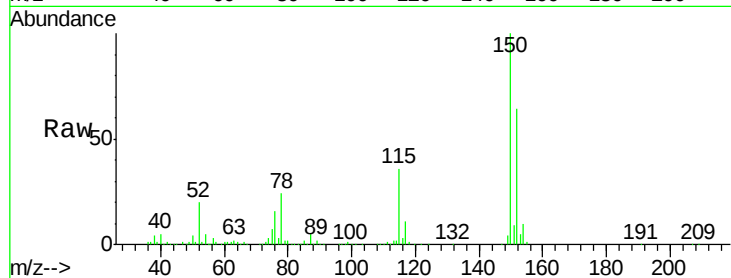
Tot Ion:152 Resp: 299765

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

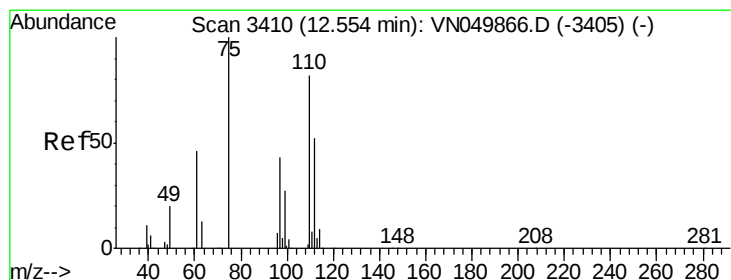
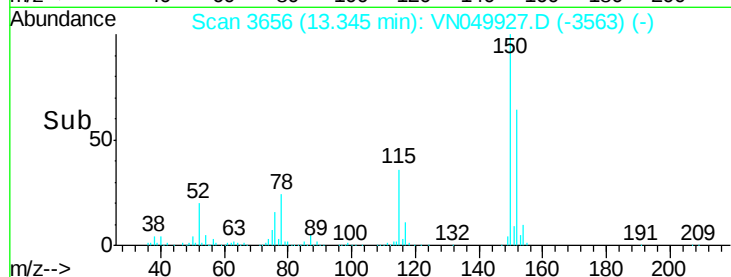
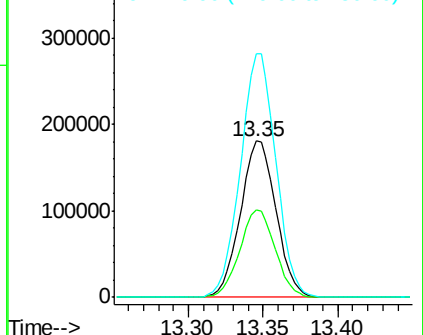
150 154.9 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049927.D

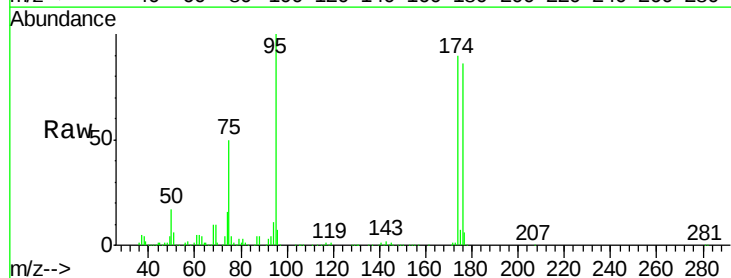
Acq: 19 Jul 2018 19:53

Tgt Ion: 75 Resp: 172048

Ion Ratio Lower Upper

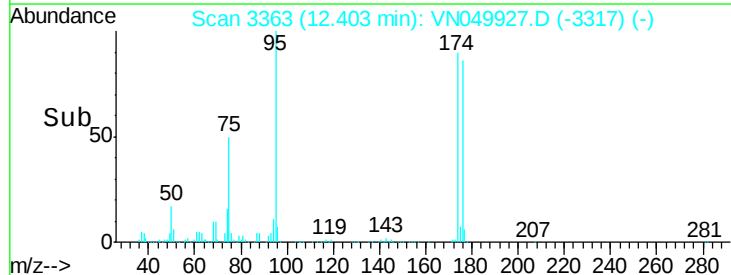
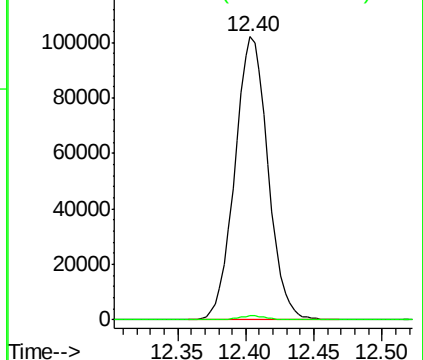
75 100

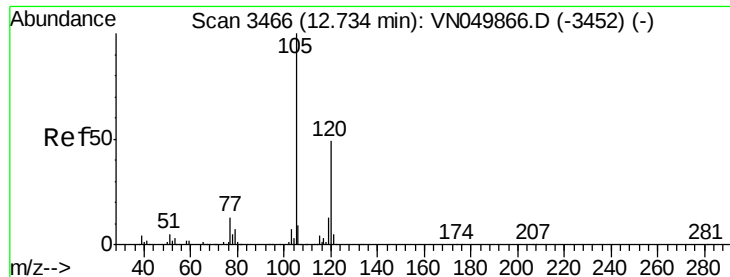
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

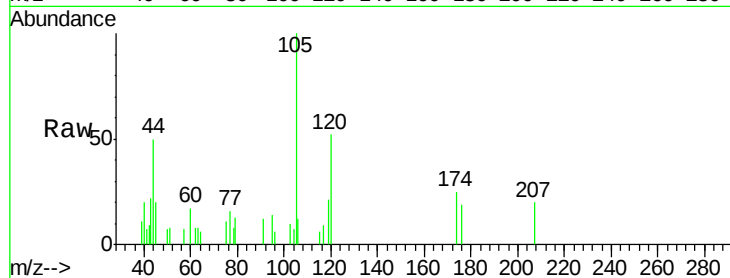
PB111251ZHE#14

Tot Ion:105 Resp: 3831

Ion Ratio Lower Upper

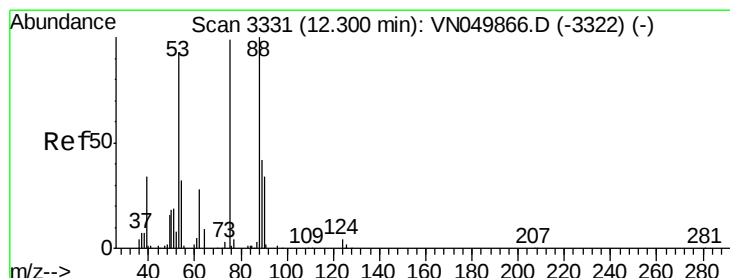
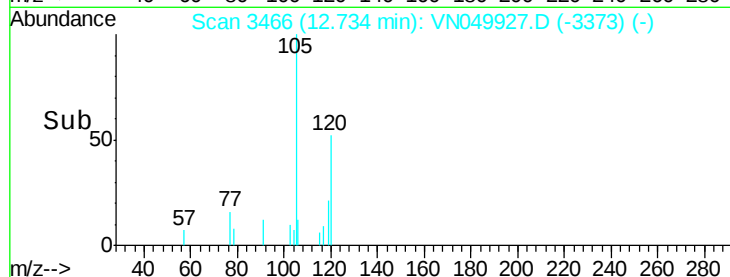
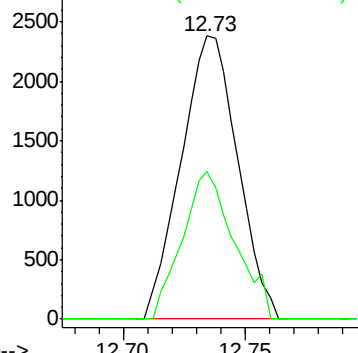
105 100

120 48.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 95.67 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

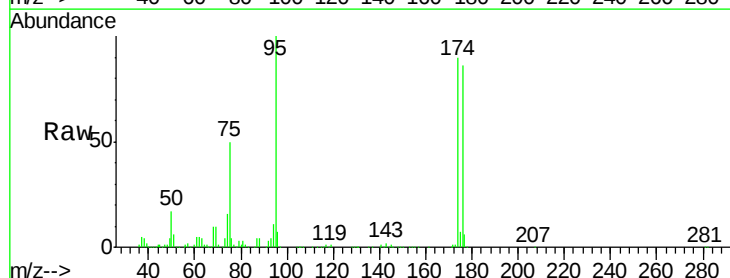
Tgt Ion: 75 Resp: 172048

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

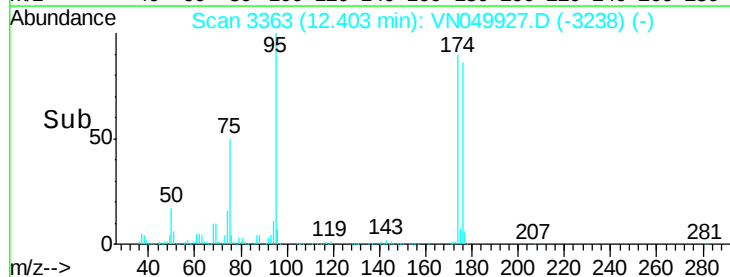
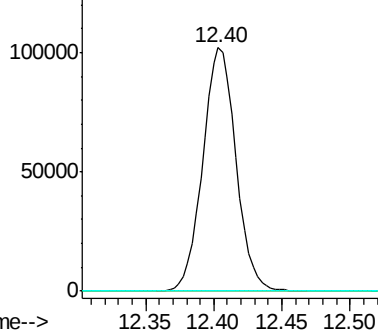
89 0.0 35.9 53.9#

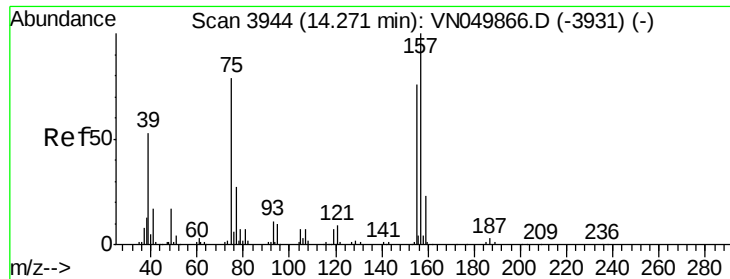


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.29 ug/l

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#14

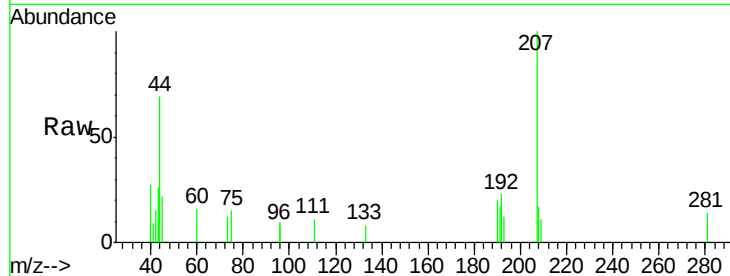
Tot Ion: 75 Resp: 310

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

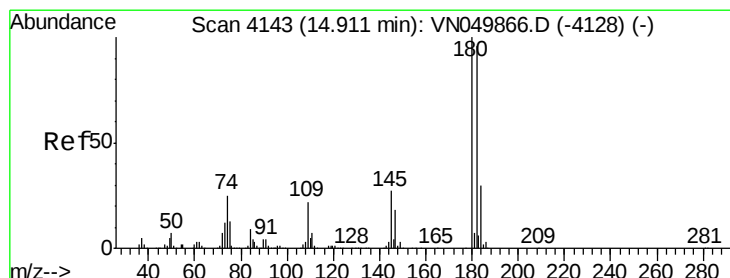
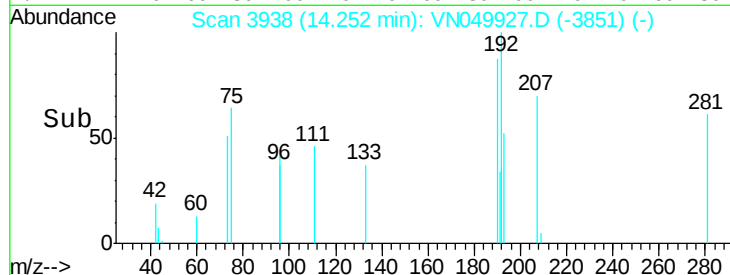
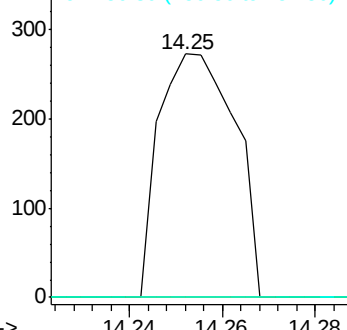
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 3.49 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049927.D

Acq: 19 Jul 2018 19:53

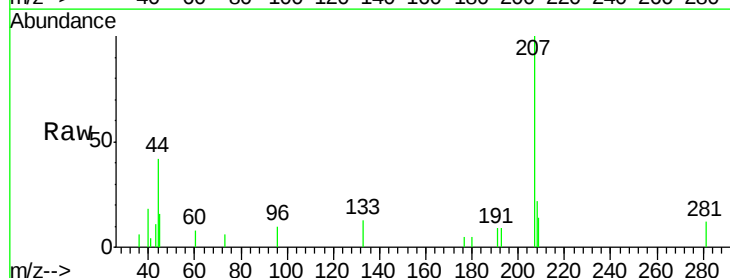
Tgt Ion: 180 Resp: 59

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.9#

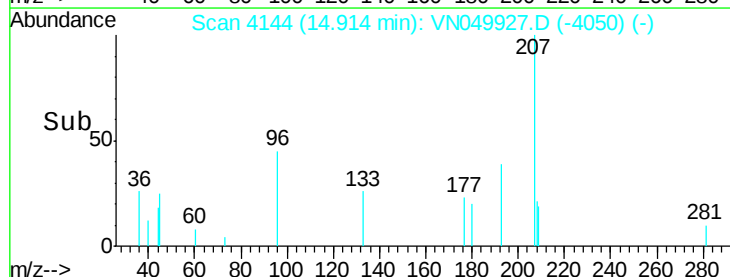
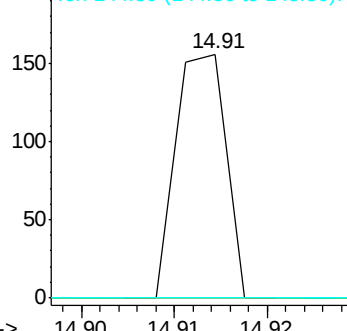
145 0.0 14.4 43.0#

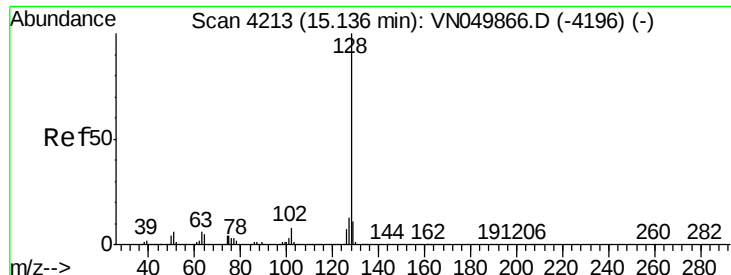


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.50 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049927.D

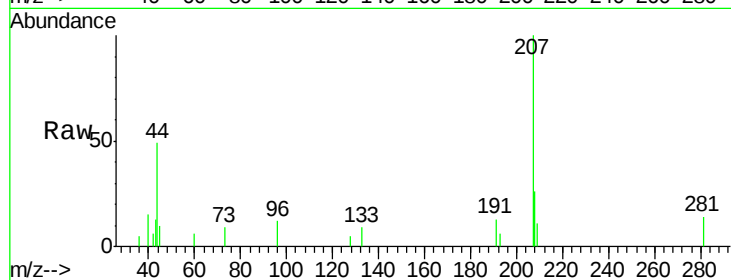
Acq: 19 Jul 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#14



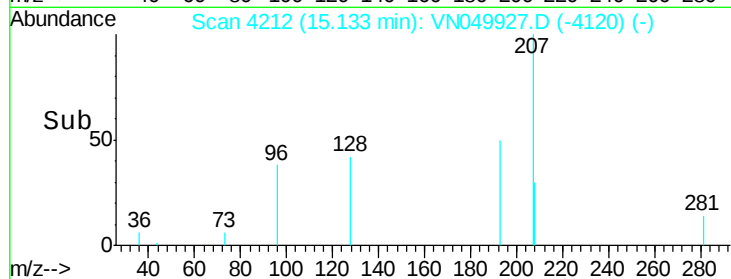
Tot Ion:128 Resp: 99

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

