

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050852.D
 Acq On : 23 Aug 2018 14:46
 Operator : MD\SY
 Sample : J4612-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:11:13 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	611554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018311	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	823548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266852	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	410189	55.72	ug/l	0.00
Spiked Amount			Recovery	=	111.44%	
35) Dibromofluoromethane	7.59	113	385510	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
50) Toluene-d8	10.09	98	1358509	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
62) 4-Bromofluorobenzene	12.40	95	344899	34.27	ug/l	0.00
Spiked Amount			Recovery	=	68.54%	

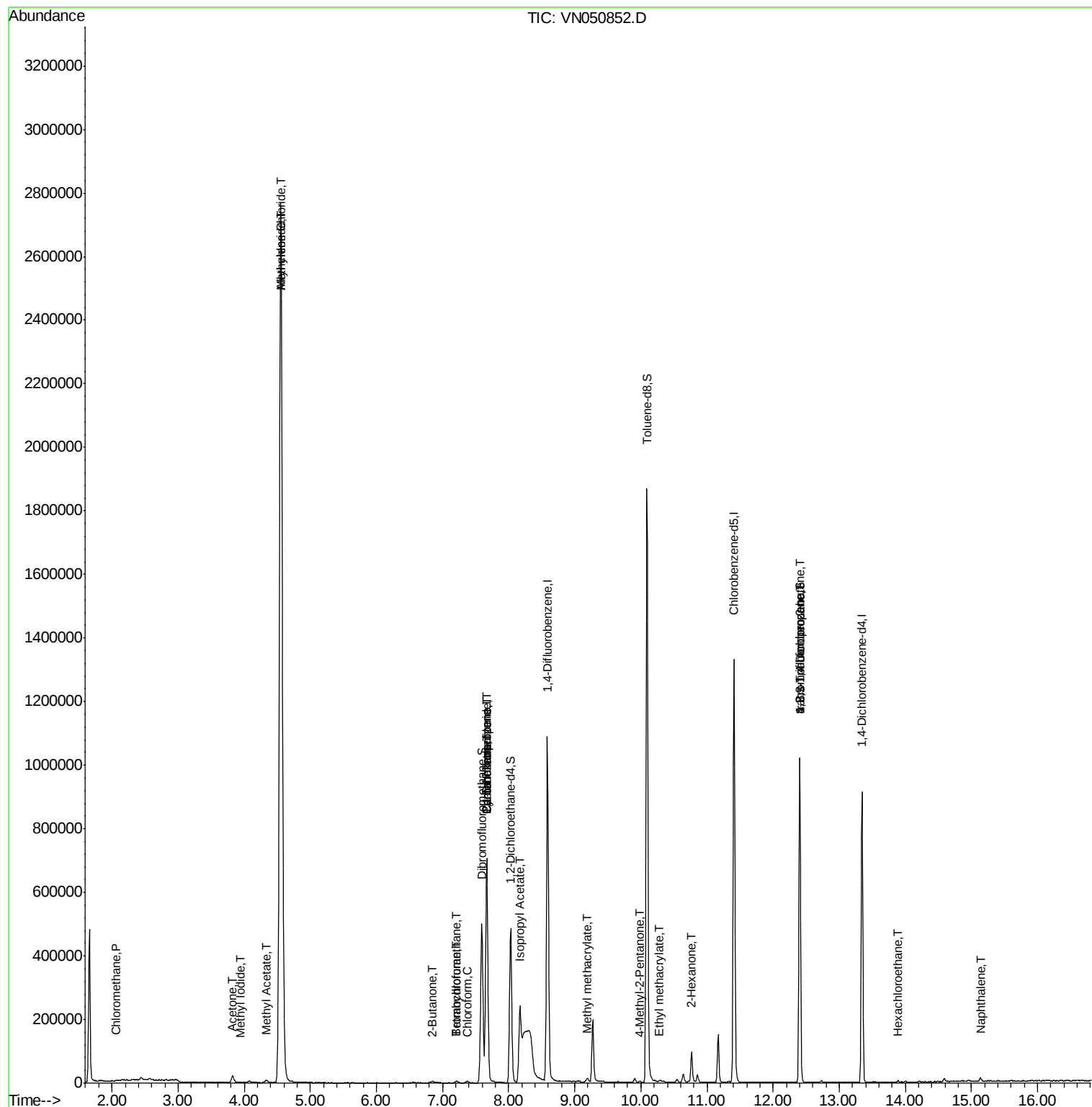
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2527	0.25	ug/l	91
5) Bromomethane	2.57	94	2864	Below Cal		94
10) Methyl Iodide	3.94	142	592	6.42	ug/l #	43
14) Allyl chloride	4.55	41	81255	7.59	ug/l #	26
16) Acetone	3.82	43	34557	13.13	ug/l	92
18) Methyl Acetate	4.33	43	16305	2.35	ug/l	98
20) Methylene Chloride	4.55	84	2238271	269.75	ug/l	99
25) 2-Butanone	6.84	43	2011	0.68	ug/l	92
28) Bromochloromethane	7.20	49	1354	0.23	ug/l #	25
29) Tetrahydrofuran	7.21	42	634	0.37	ug/l #	68
30) Chloroform	7.38	83	4723	0.35	ug/l	98
31) Cyclohexane	7.67	56	10256	1.28	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41904	3.49	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54619	4.50	ug/l #	17
43) Isopropyl Acetate	8.17	43	323840	27.29	ug/l #	88
48) Methyl methacrylate	9.19	41	7293	1.21	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2218	0.31	ug/l	89
56) Ethyl methacrylate	10.26	69	223	2.37	ug/l #	28
59) 2-Hexanone	10.76	43	13297	2.82	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.40	83	176	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	161525	34.56	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161525	116.83	ug/l #	15
90) Hexachloroethane	13.89	117	347	0.29	ug/l #	4
95) Naphthalene	15.13	128	10031	6.24	ug/l	97

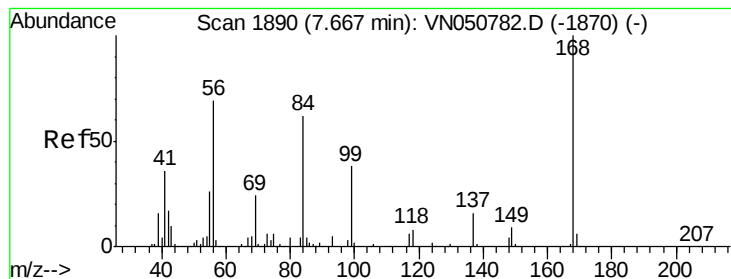
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 24 01:11:13 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: VN050852.D

Acq: 23 Aug 2018 14:46

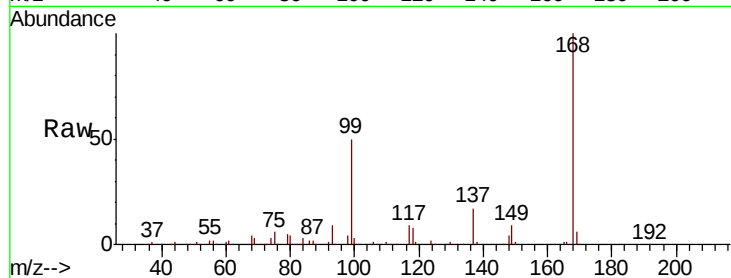
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 611554

Ion Ratio Lower Upper

168 100

99 50.4 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

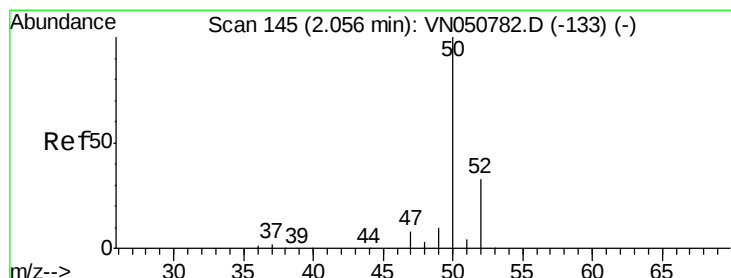
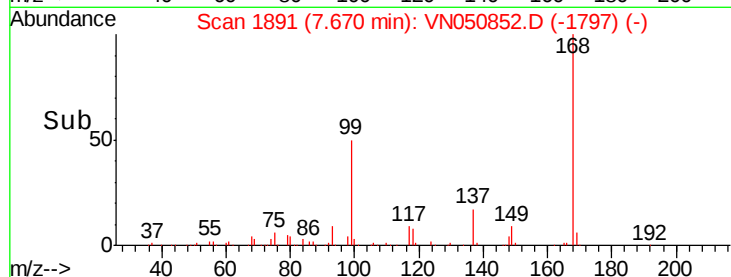
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050852.D

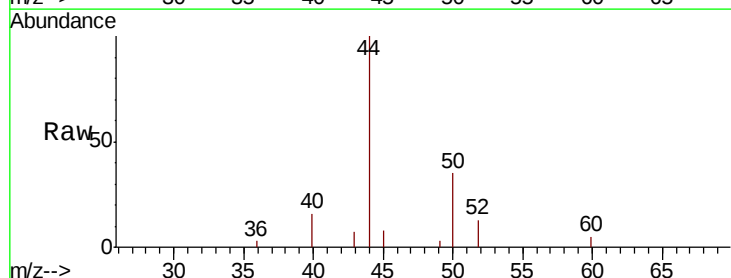
Acq: 23 Aug 2018 14:46

Tgt Ion: 50 Resp: 2527

Ion Ratio Lower Upper

50 100

52 37.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

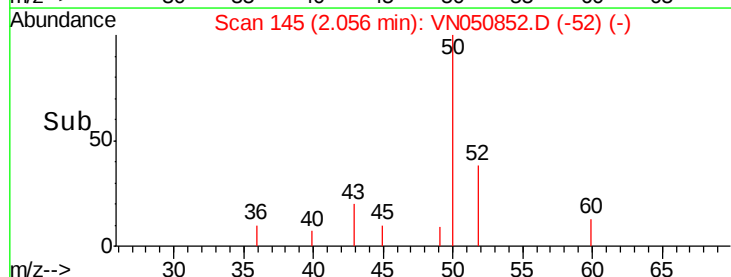
1500

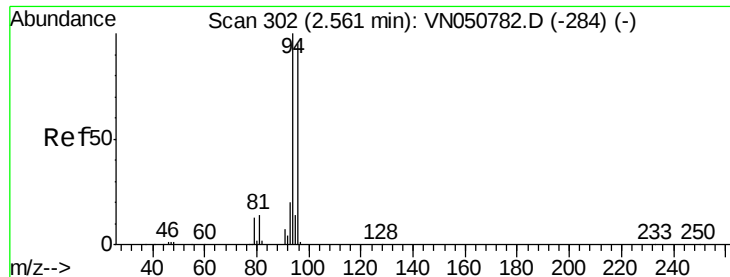
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

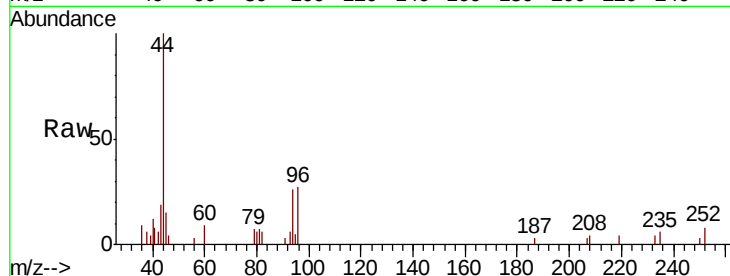
ClientSampled :

Tot Ion: 94 Resp: 2864

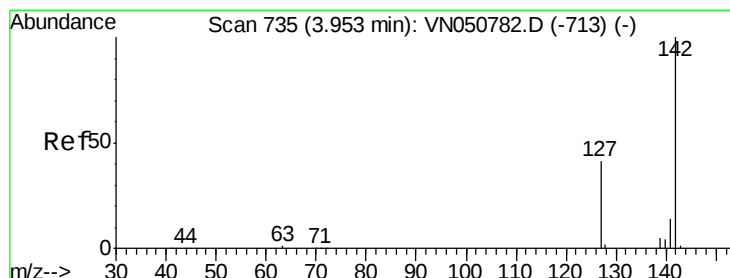
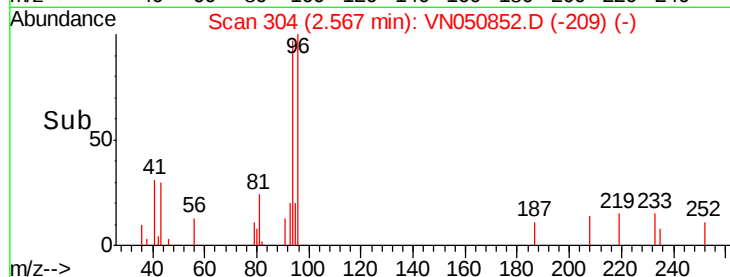
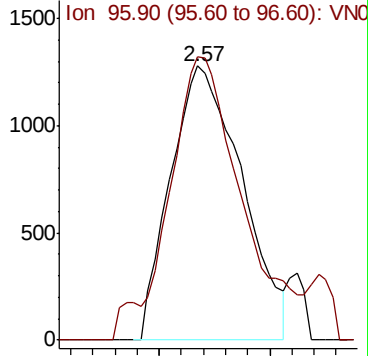
Ion Ratio Lower Upper

94 100

96 89.4 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050852.D (-284) (-)



#10

Methyl Iodide

Concen: 6.42 ug/l

RT: 3.94 min Scan# 732

Delta R.T. -0.01 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

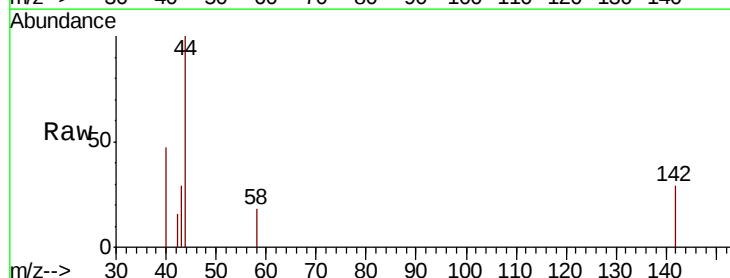
Tgt Ion: 142 Resp: 592

Ion Ratio Lower Upper

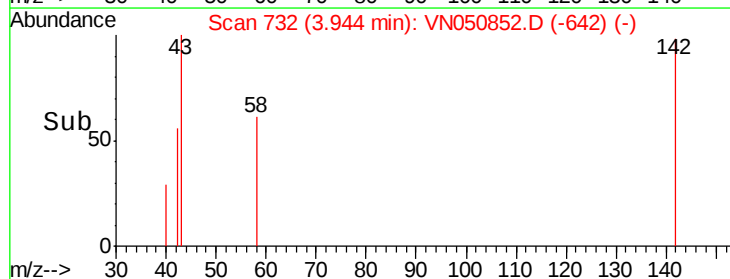
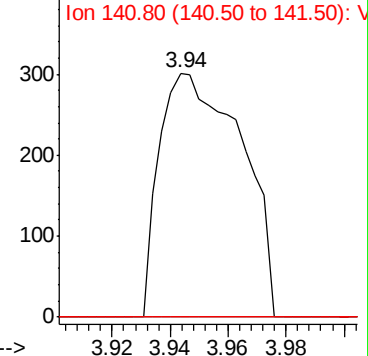
142 100

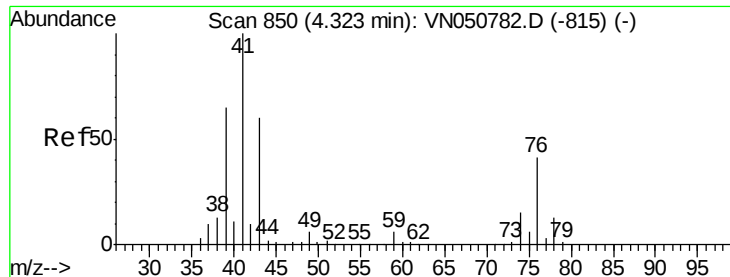
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050852.D (-713) (-)





#14

Allvl chloride

Concen: 7.59 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.23 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :
MSVOA_N
ClientSampleId :

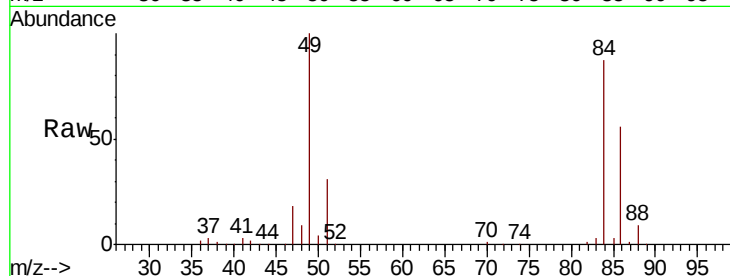
Tot Ion: 41 Resp: 81255

Ion Ratio Lower Upper

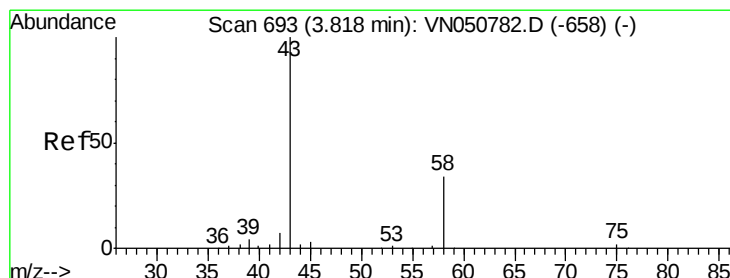
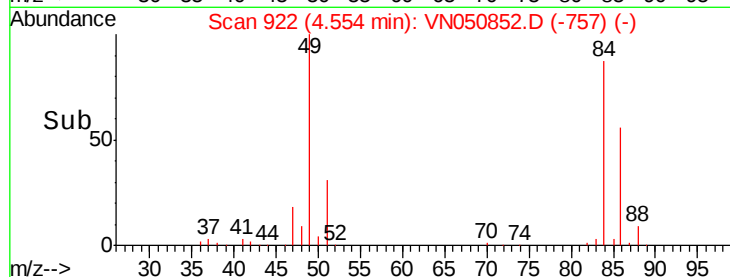
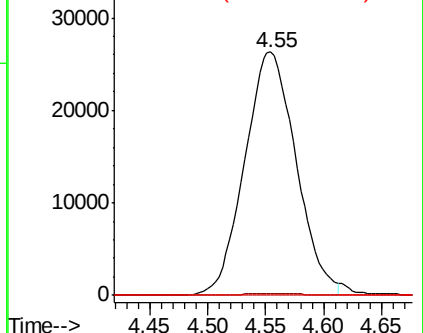
41 100

39 0.2 50.2 75.2#

76 0.0 29.8 44.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 13.13 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050852.D

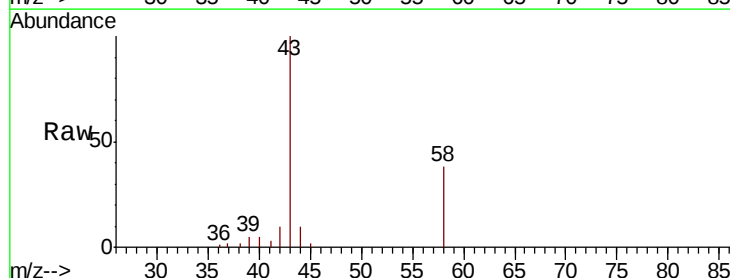
Acq: 23 Aug 2018 14:46

Tgt Ion: 43 Resp: 34557

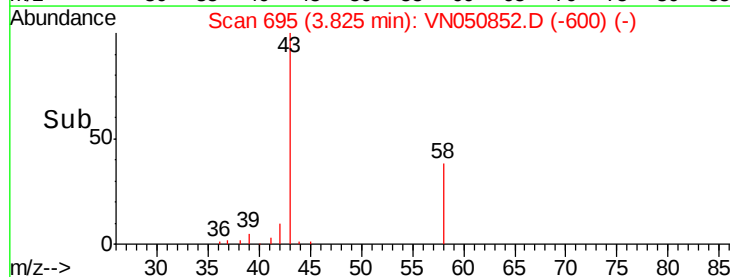
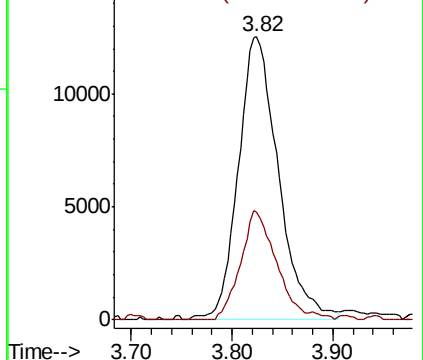
Ion Ratio Lower Upper

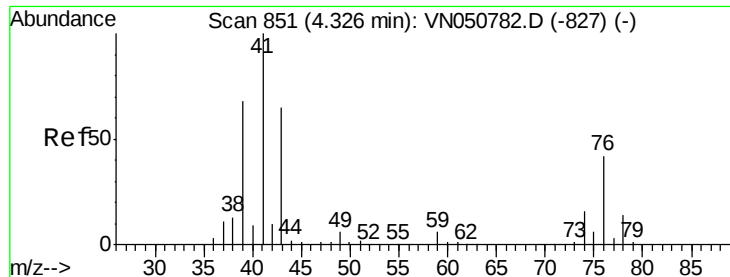
43 100

58 38.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

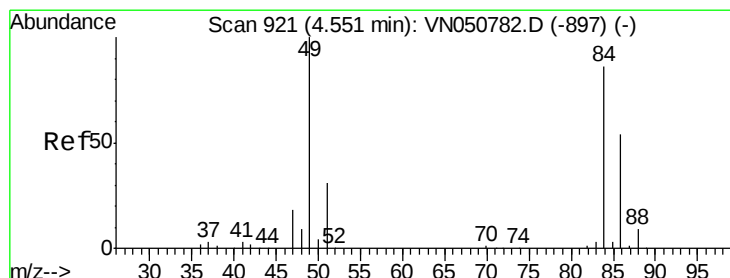
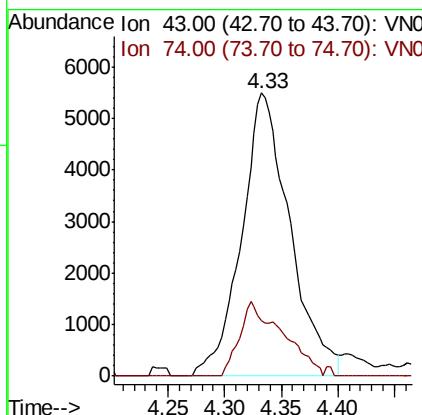
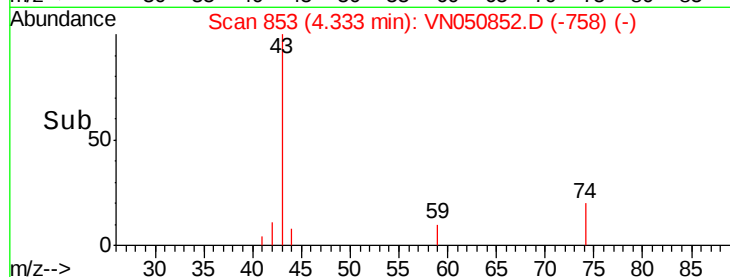
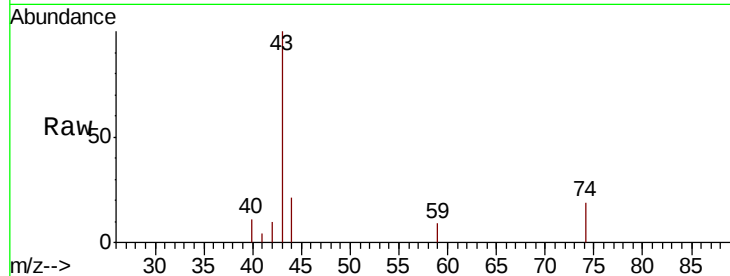




#18
Methyl Acetate
Concen: 2.35 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

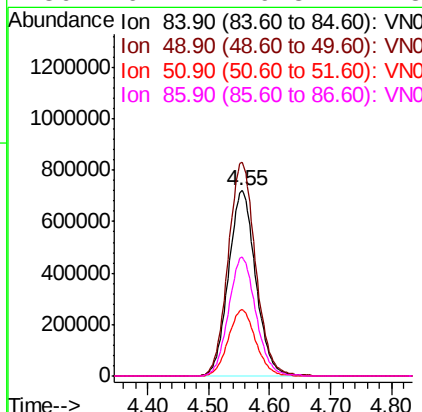
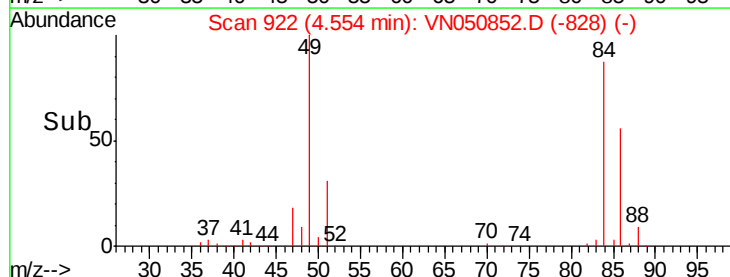
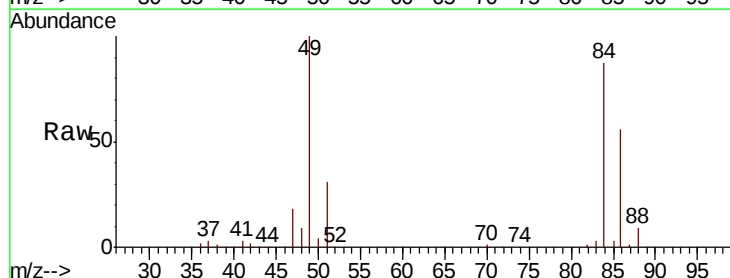
Instrument :
MSVOA_N
ClientSampled :

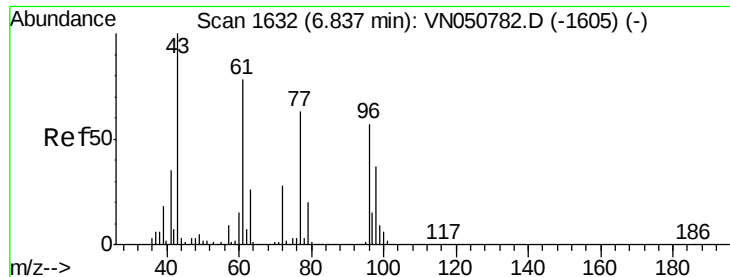
Tot Ion: 43 Resp: 16305
Ion Ratio Lower Upper
43 100
74 23.7 19.8 29.8



#20
Methylene Chloride
Concen: 269.75 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

Tgt Ion: 84 Resp: 2238271
Ion Ratio Lower Upper
84 100
49 115.5 93.2 139.8
51 35.7 29.0 43.6
86 64.2 49.8 74.8

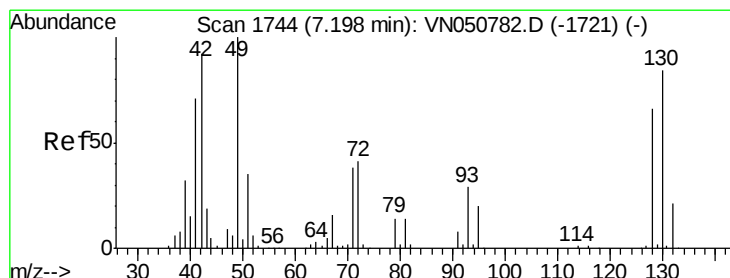
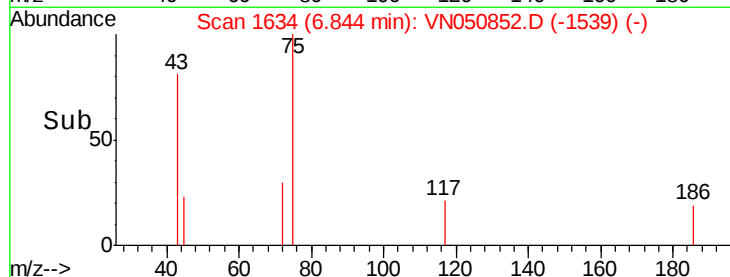
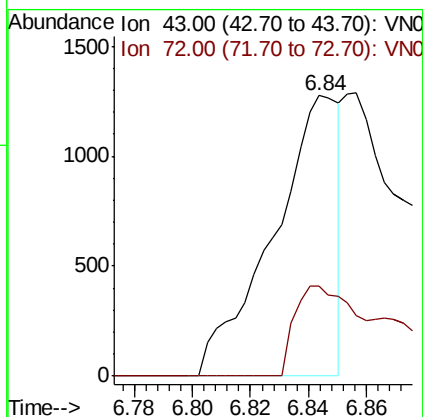
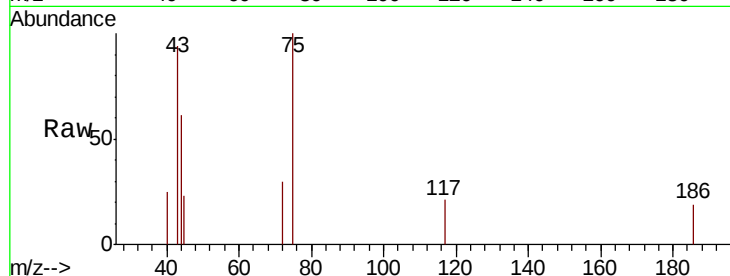




#25
2-Butanone
Concen: 0.68 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

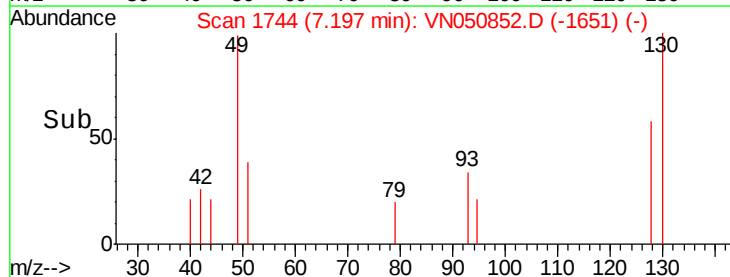
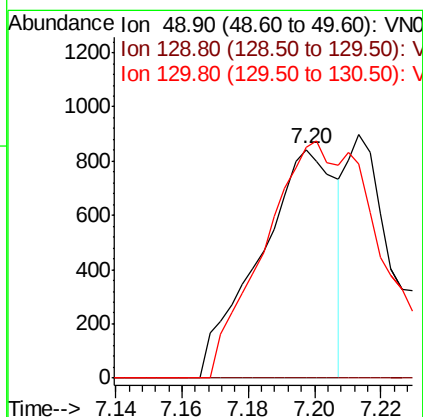
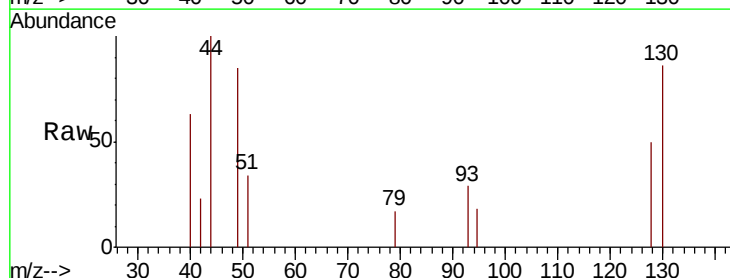
Instrument :
MSVOA_N
ClientSampled :

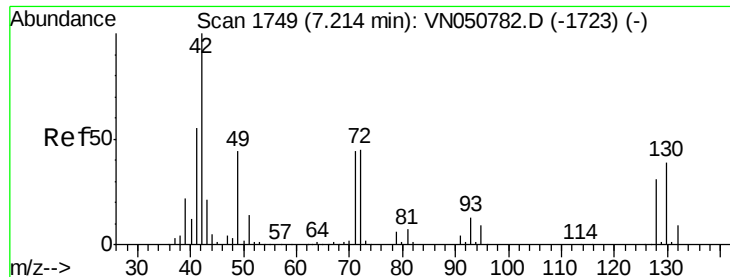
Tot Ion: 43 Resp: 2011
Ion Ratio Lower Upper
43 100
72 32.3 22.3 33.5



#28
Bromochloromethane
Concen: 0.23 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

Tgt Ion: 49 Resp: 1354
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 153.7 67.1 100.7#





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :
MSVOA_N
ClientSampled :

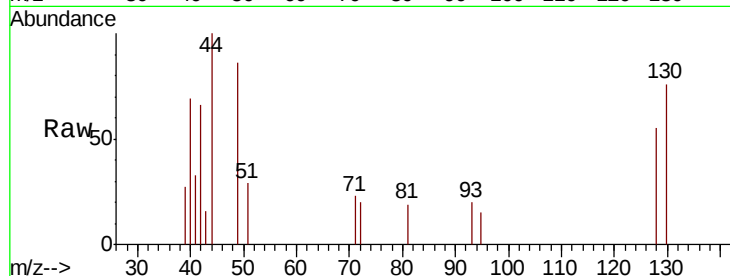
Tot Ion: 42 Resp: 634

Ion Ratio Lower Upper

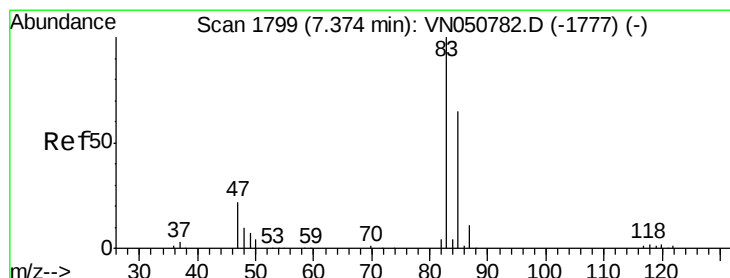
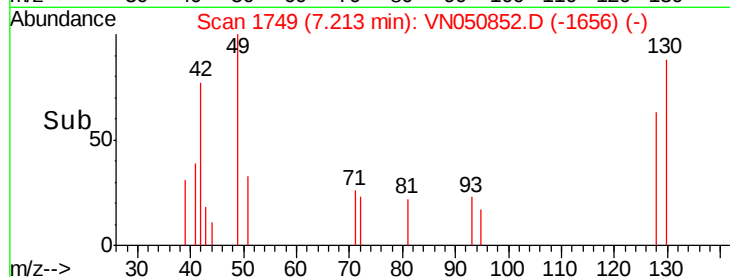
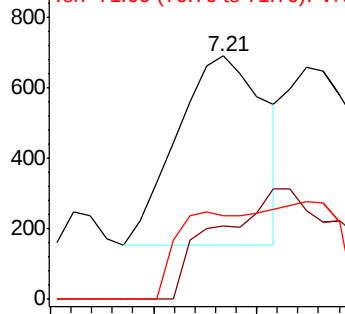
42 100

72 77.0 35.5 53.3#

71 34.2 33.7 50.5



Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.35 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN050852.D

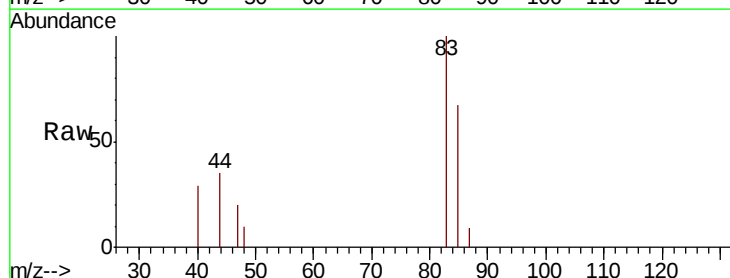
Acq: 23 Aug 2018 14:46

Tgt Ion: 83 Resp: 4723

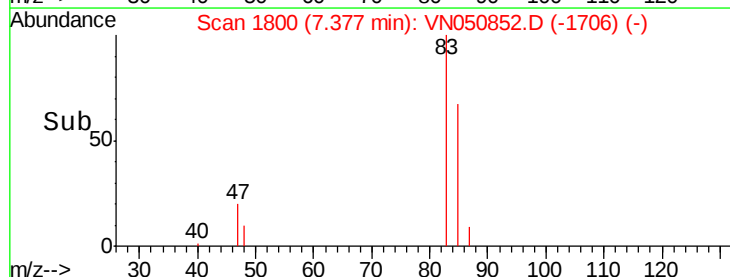
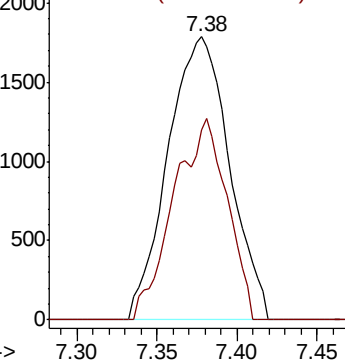
Ion Ratio Lower Upper

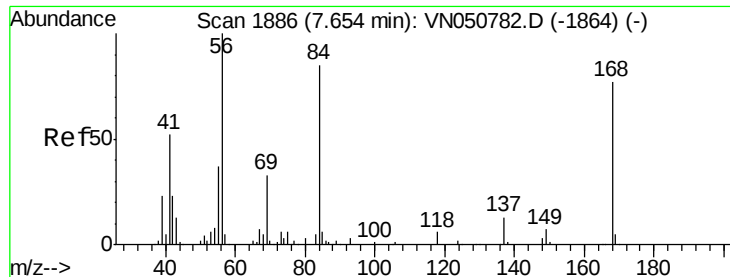
83 100

85 67.2 52.2 78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0

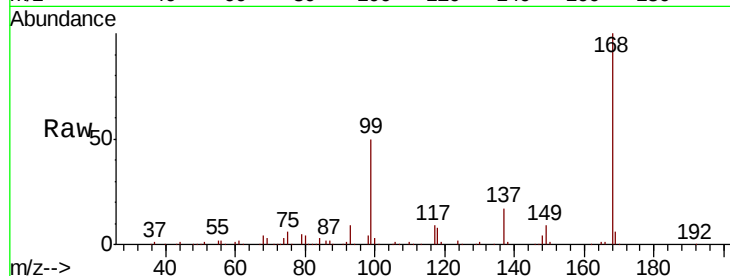




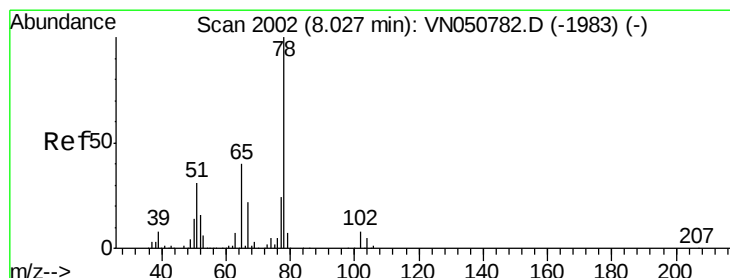
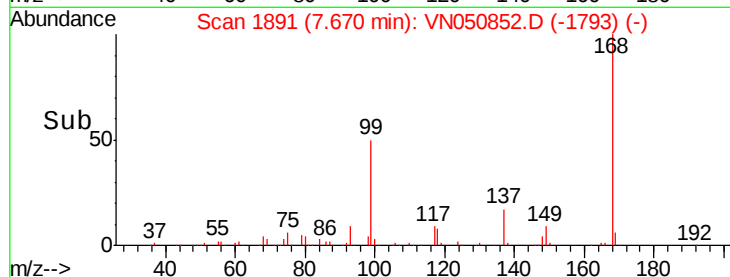
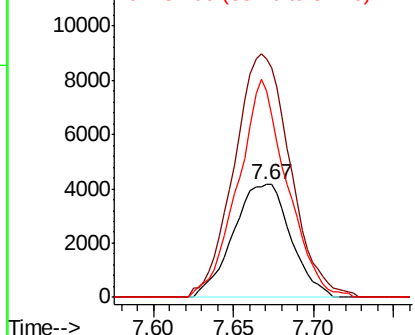
#31
Cyclohexane
Concen: 1.28 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10256
Ion Ratio Lower Upper
56 100
69 211.3 26.2 39.4#
84 182.4 68.3 102.5#

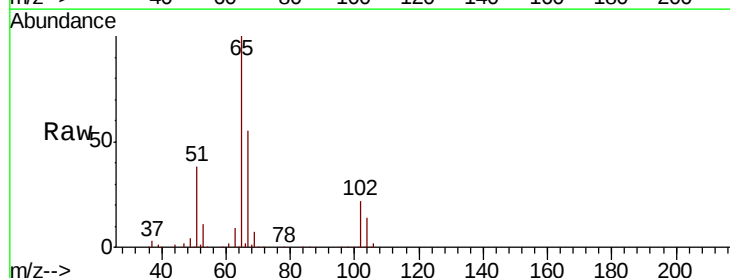


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

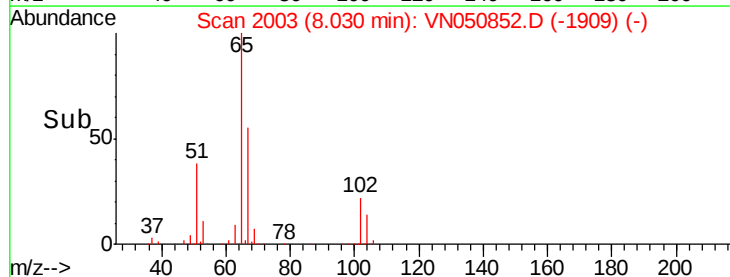
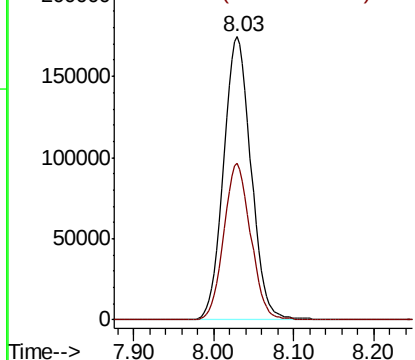


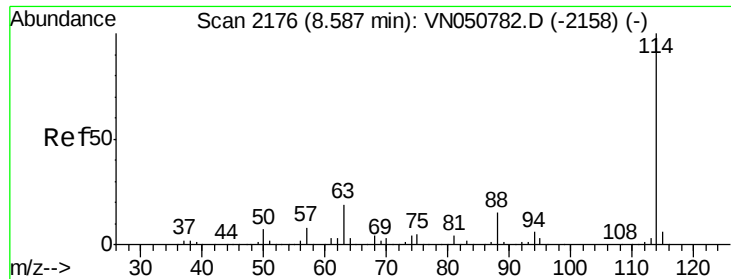
#33
1,2-Dichloroethane-d4
Concen: 55.72 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

Tgt Ion: 65 Resp: 410189
Ion Ratio Lower Upper
65 100
67 54.3 0.0 110.4



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

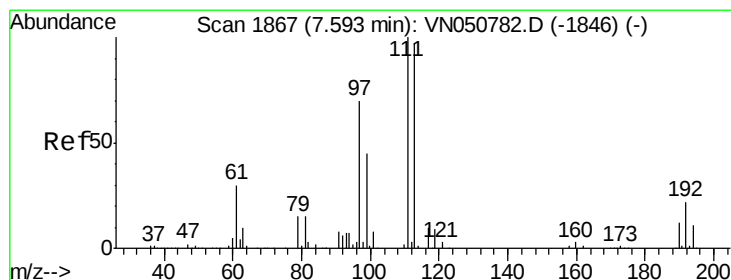
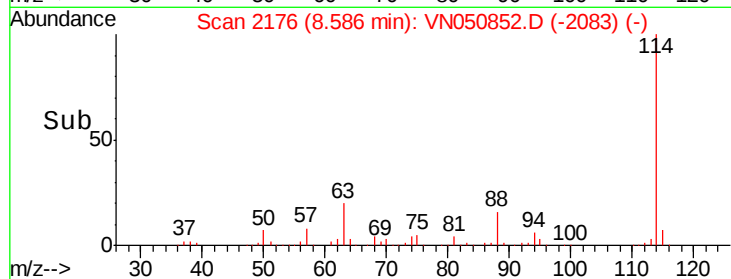
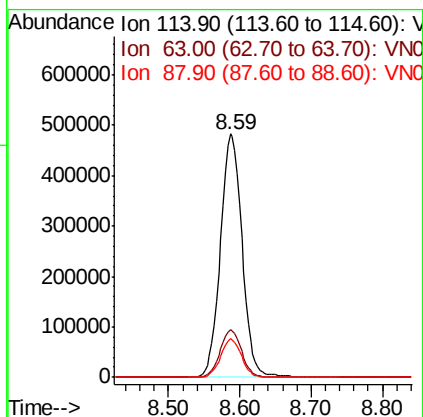
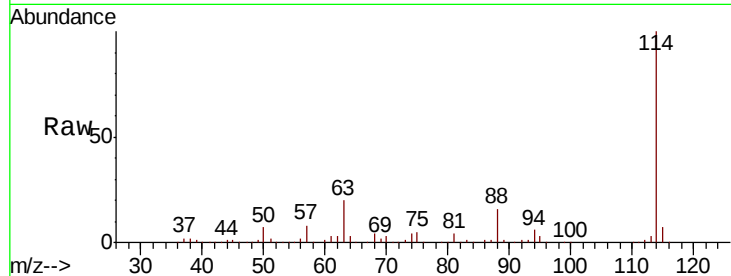




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

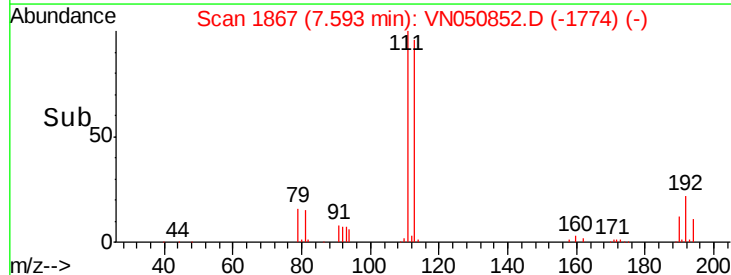
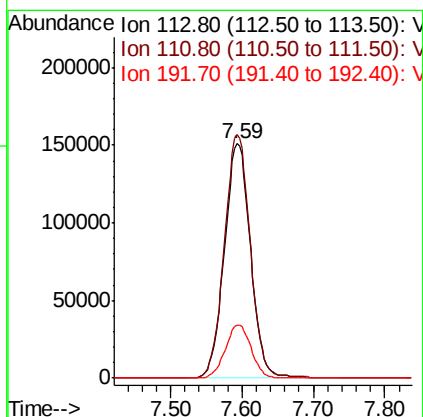
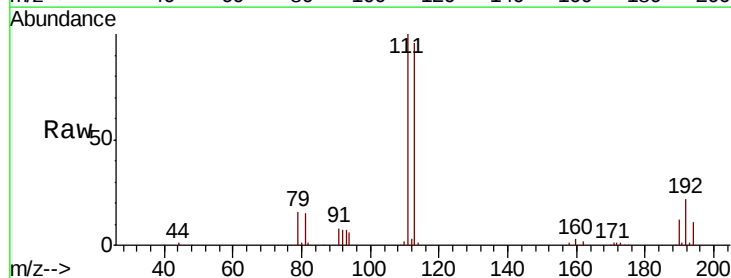
Instrument :
 MSVOA_N
 ClientSampled :

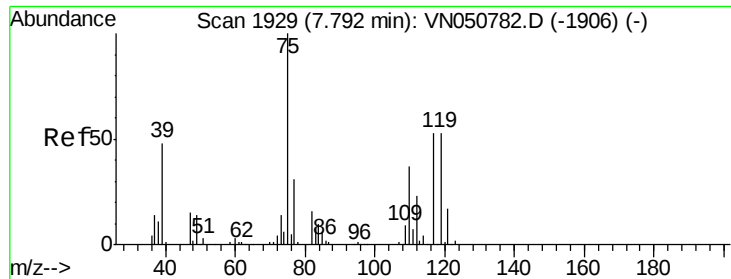
Tot Ion:114 Resp: 1018311
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.7 0.0 30.6



#35
 Dibromofluoromethane
 Concen: 47.59 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

Tgt Ion:113 Resp: 385510
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.6 123.8
 192 22.3 18.0 27.0

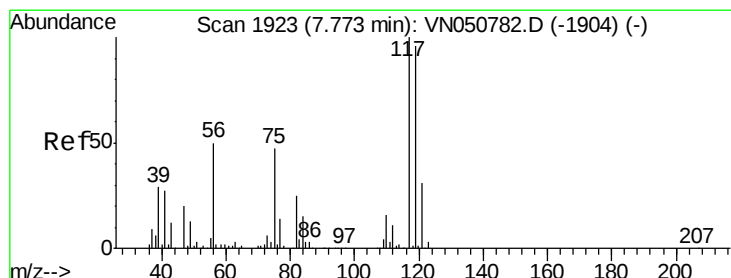
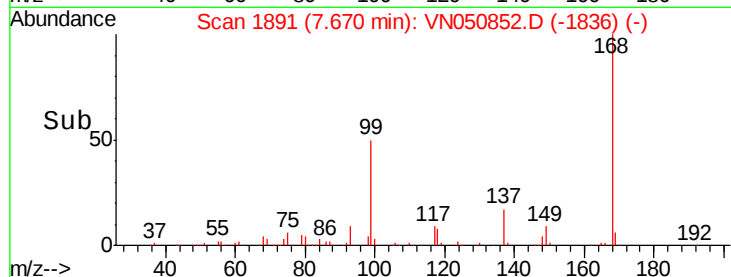
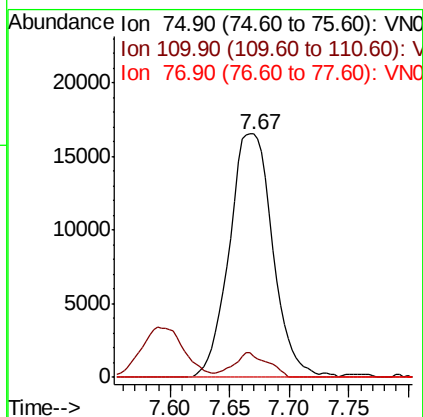
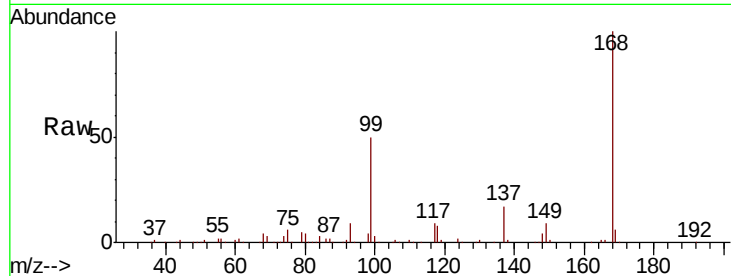




#36
 1,1-Dichloropropene
 Concen: 3.49 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

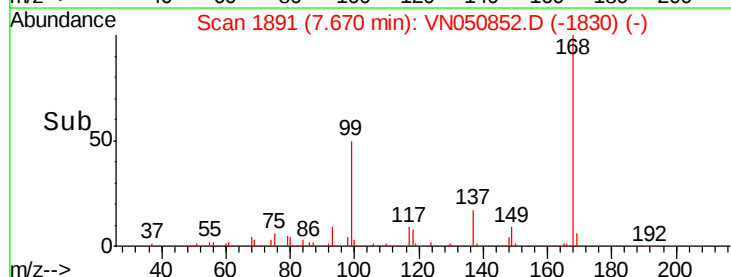
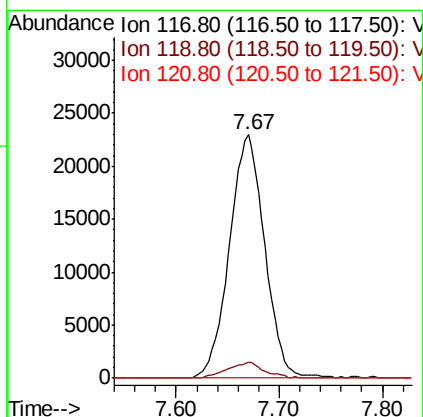
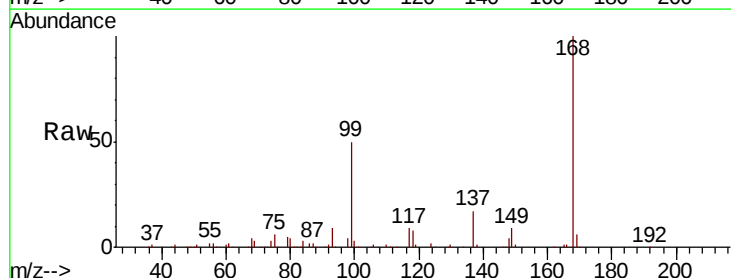
Instrument :
 MSVOA_N
 ClientSampleId :

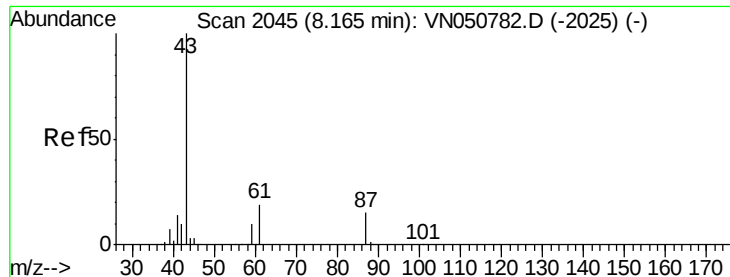
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.50 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.3	114.5#
121	0.0	24.6	36.8#



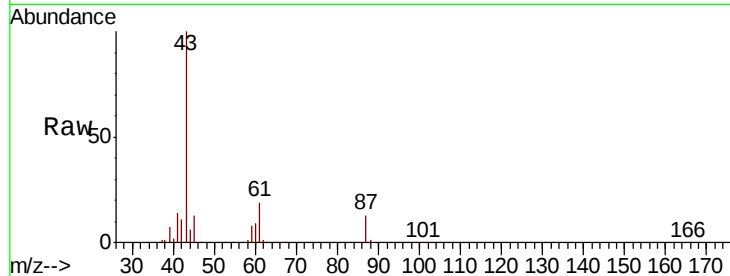


#43

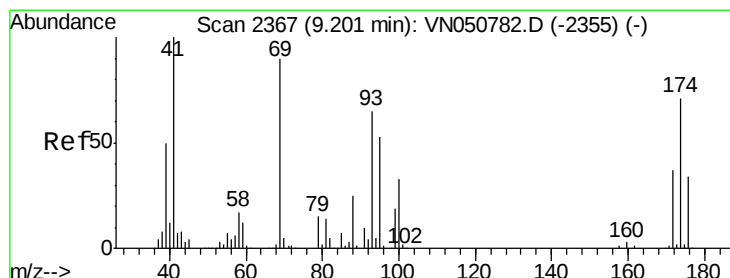
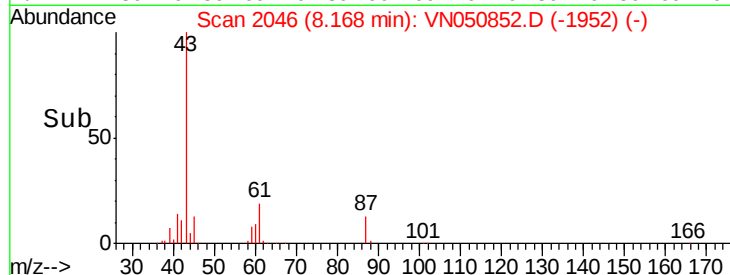
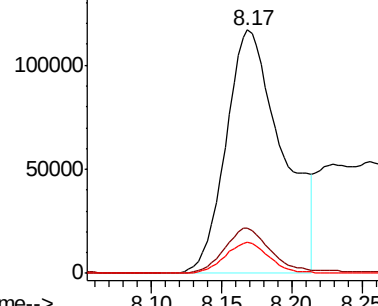
Isopropyl Acetate
 Concen: 27.29 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 323840
 Ion Ratio Lower Upper
 43 100
 61 15.3 17.5 26.3#
 87 10.1 11.3 16.9#



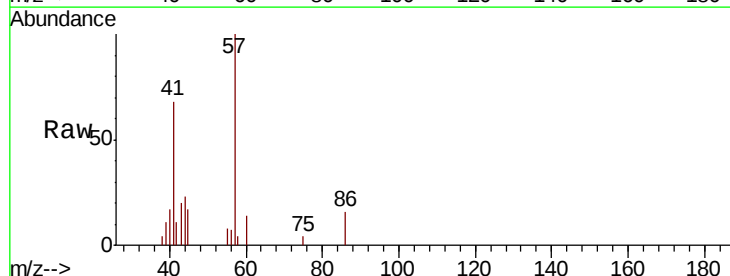
Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO
 Ion 87.00 (86.70 to 87.70): VNO



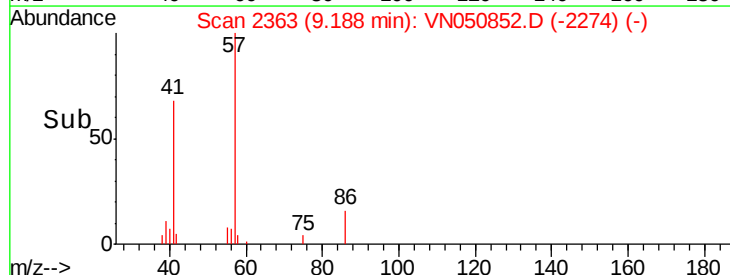
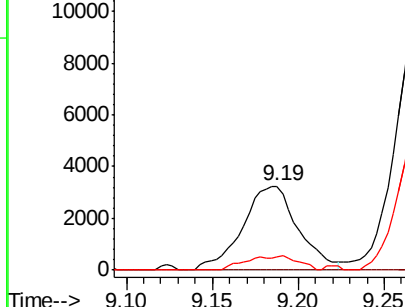
#48

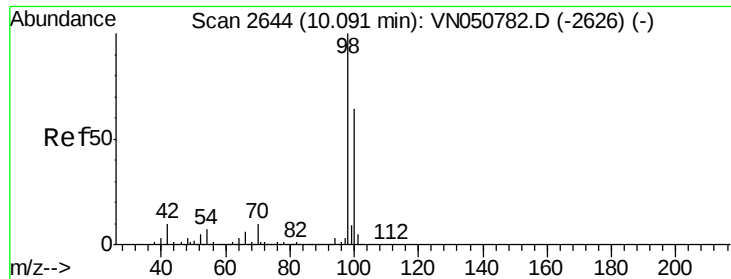
Methyl methacrylate
 Concen: 1.21 ug/l
 RT: 9.19 min Scan# 2363
 Delta R.T. -0.01 min
 Lab File: VN050852.D
 Acq: 23 Aug 2018 14:46

Tgt Ion: 41 Resp: 7293
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.7 112.1#
 39 8.8 42.2 63.2#



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





#50

Toluene-d8

Concen: 44.85 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

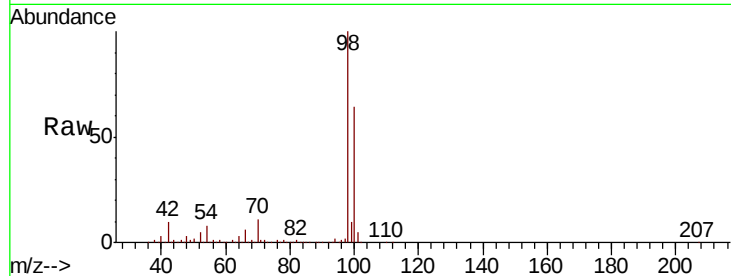
ClientSampleId :

Tot Ion: 98 Resp: 1358509

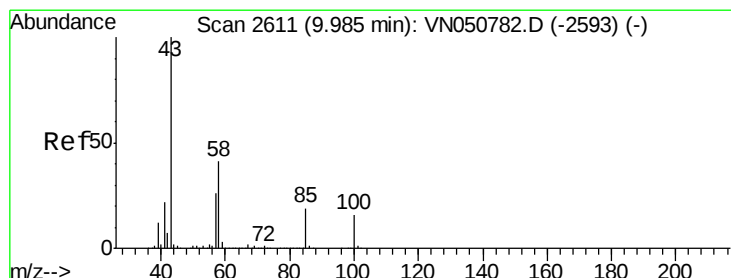
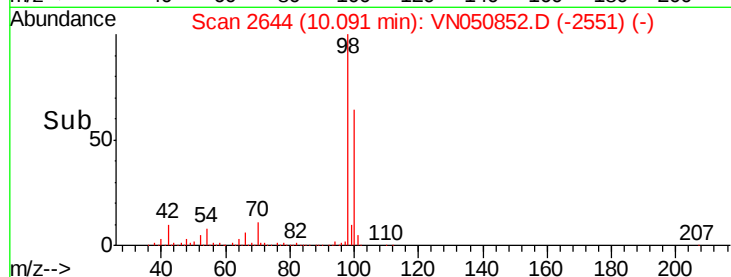
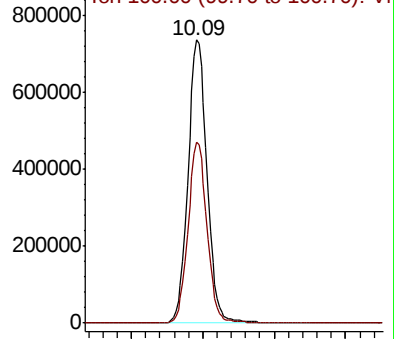
Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN050782.D (-2626) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.31 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050852.D

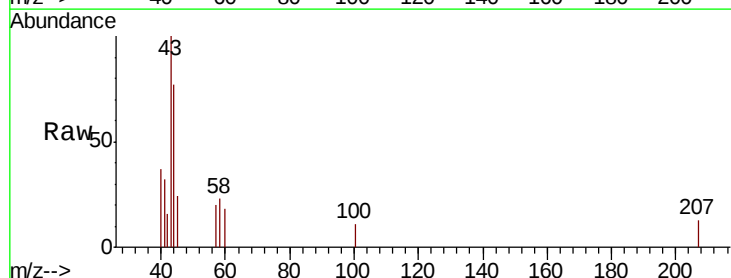
Acq: 23 Aug 2018 14:46

Tgt Ion: 43 Resp: 2218

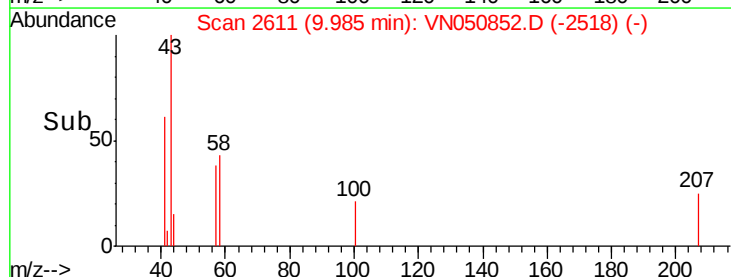
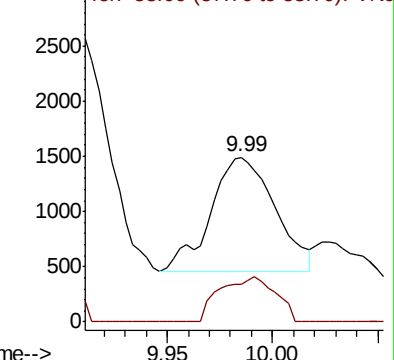
Ion Ratio Lower Upper

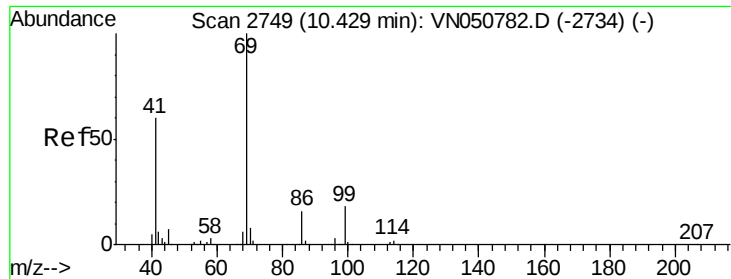
43 100

58 33.8 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)





#56

Ethyl methacrylate

Concen: 2.37 ug/l

RT: 10.26 min Scan# 2697

Delta R.T. -0.17 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

ClientSampleId :

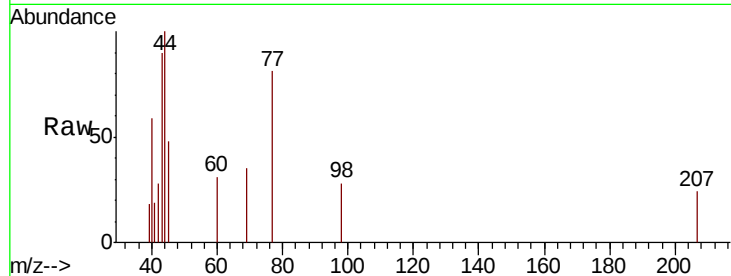
Tot Ion: 69 Resp: 223

Ion Ratio Lower Upper

69 100

41 0.0 48.3 72.5#

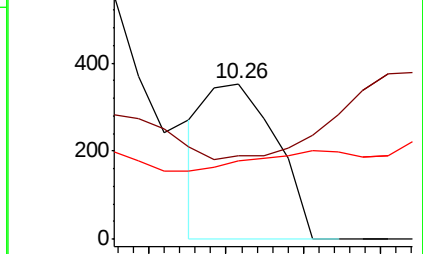
39 0.0 24.0 36.0#



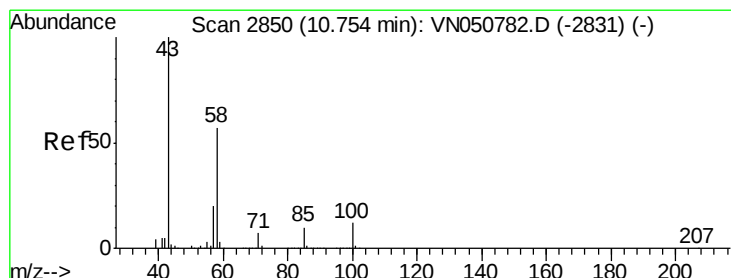
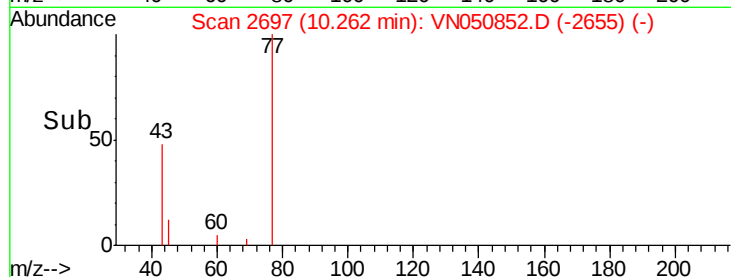
Abundance Ion 69.00 (68.70 to 69.70): VN050852.D (-2697) (-)

Ion 41.00 (40.70 to 41.70): VN050852.D (-2697) (-)

Ion 39.00 (38.70 to 39.70): VN050852.D (-2697) (-)



Time-->



#59

2-Hexanone

Concen: 2.82 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050852.D

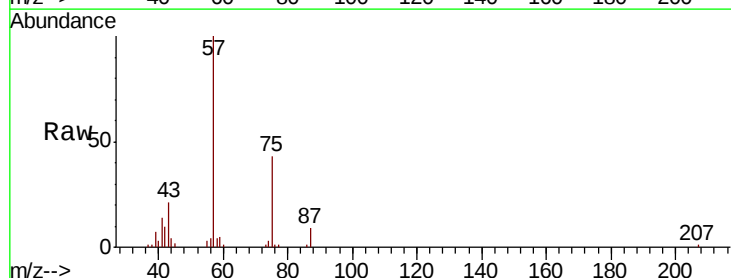
Acq: 23 Aug 2018 14:46

Tgt Ion: 43 Resp: 13297

Ion Ratio Lower Upper

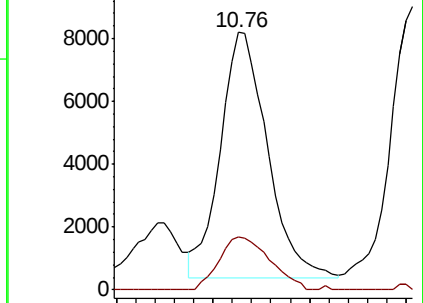
43 100

58 23.1 28.3 85.0#

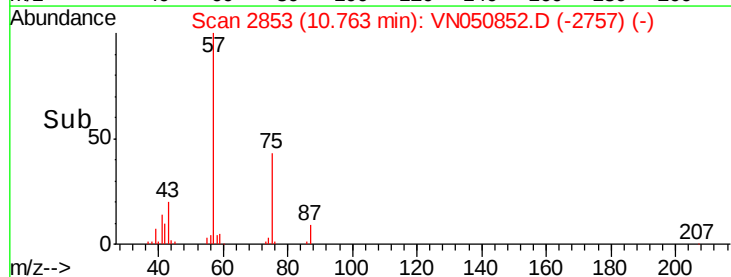


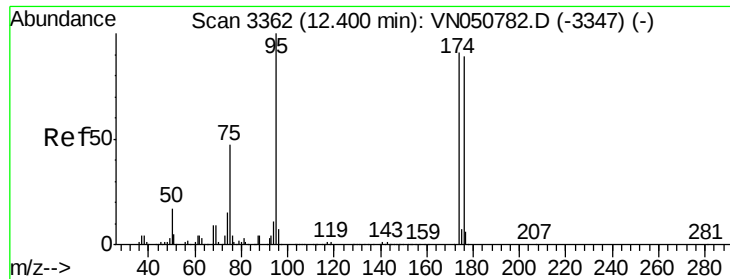
Abundance Ion 43.00 (42.70 to 43.70): VN050852.D (-2853) (-)

Ion 58.00 (57.70 to 58.70): VN050852.D (-2853) (-)



Time-->

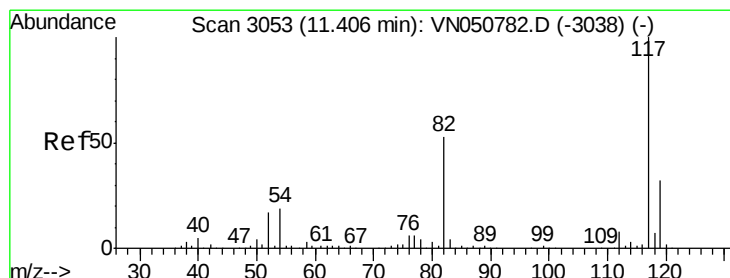
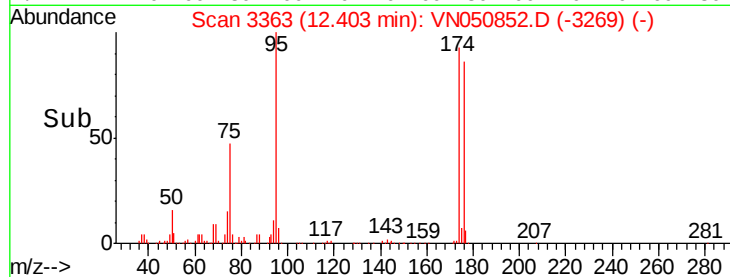
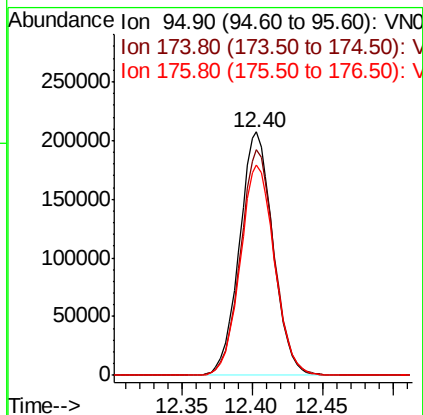
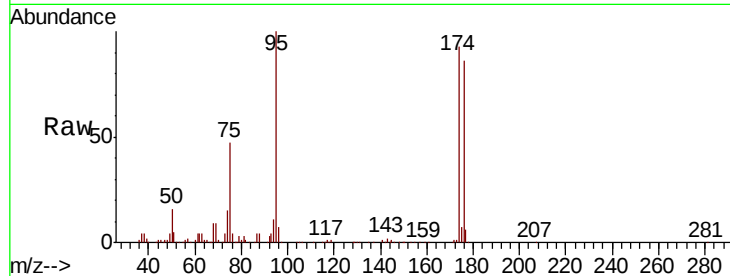




#62
4-Bromofluorobenzene
Concen: 34.27 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

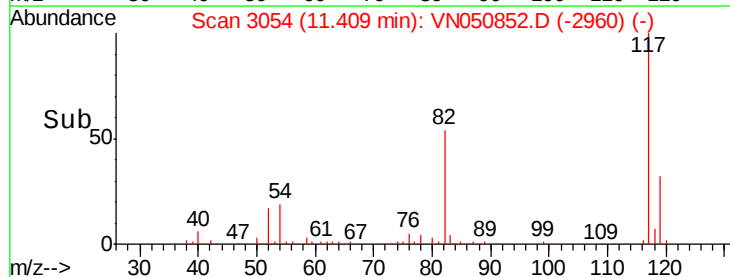
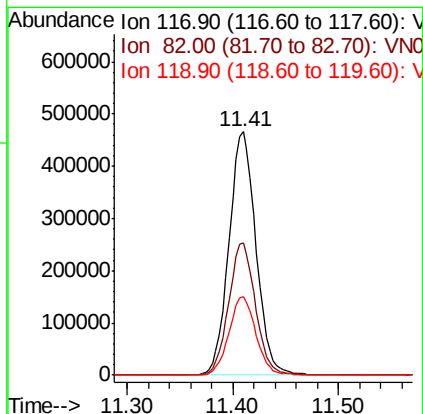
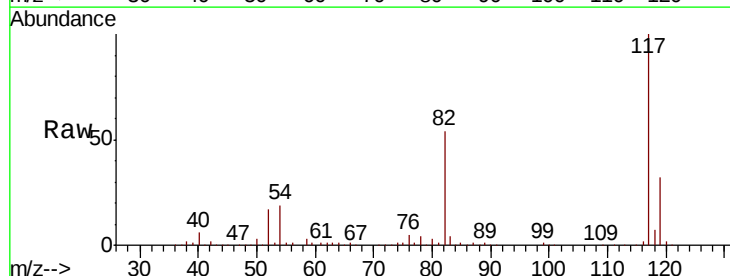
Instrument :
MSVOA_N
ClientSampled :

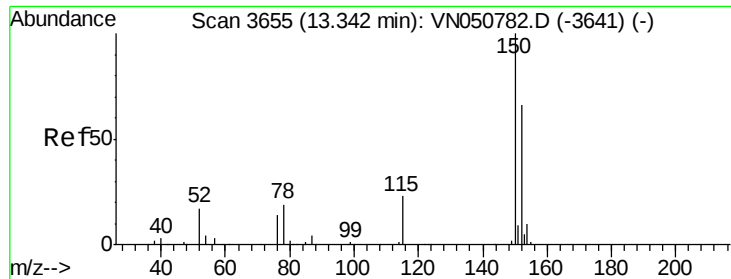
Tot Ion: 95 Resp: 344899
Ion Ratio Lower Upper
95 100
174 93.6 0.0 183.0
176 88.2 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050852.D
Acq: 23 Aug 2018 14:46

Tgt Ion: 117 Resp: 823548
Ion Ratio Lower Upper
117 100
82 54.2 42.6 64.0
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

ClientSampleId :

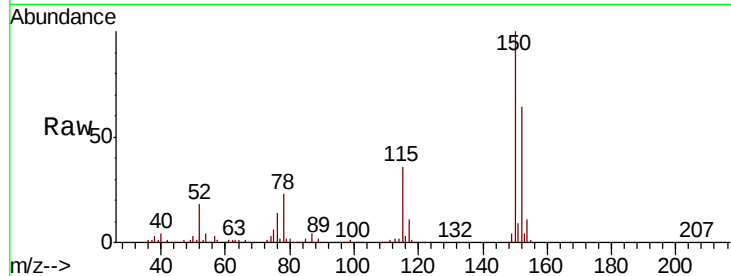
Tot Ion:152 Resp: 266852

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.4

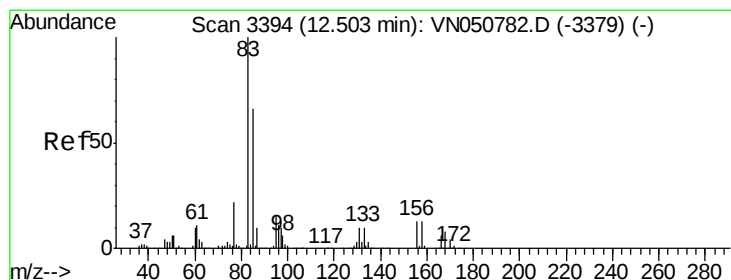
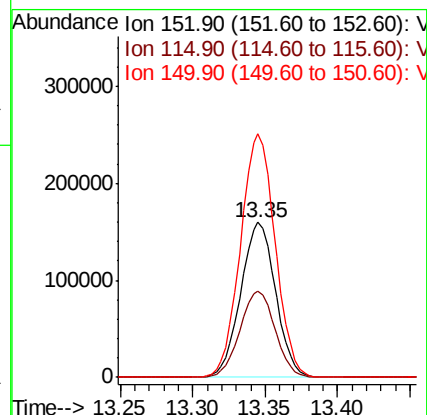
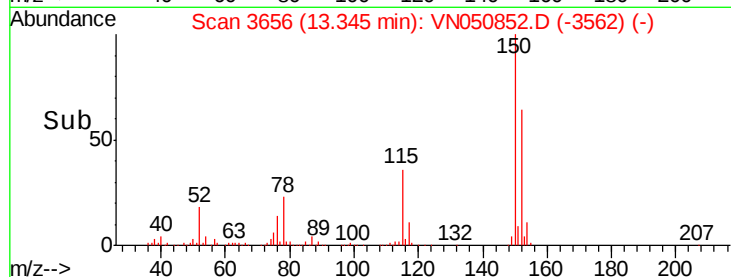
150 156.0 0.0 351.4



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: VN050852.D

Acq: 23 Aug 2018 14:46

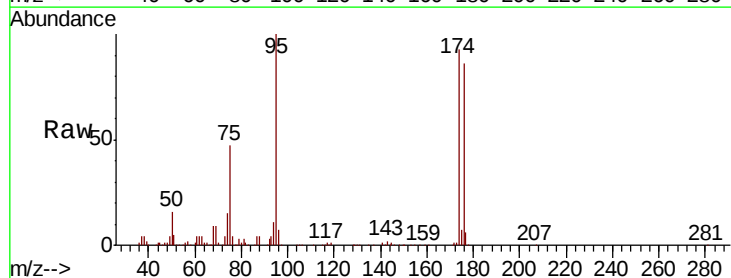
Tgt Ion: 83 Resp: 176

Ion Ratio Lower Upper

83 100

131 199.4 5.3 15.9#

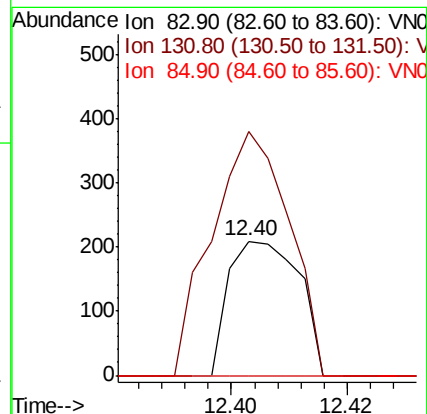
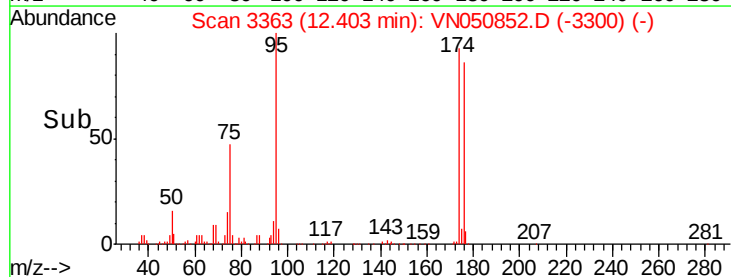
85 0.0 31.9 95.7#

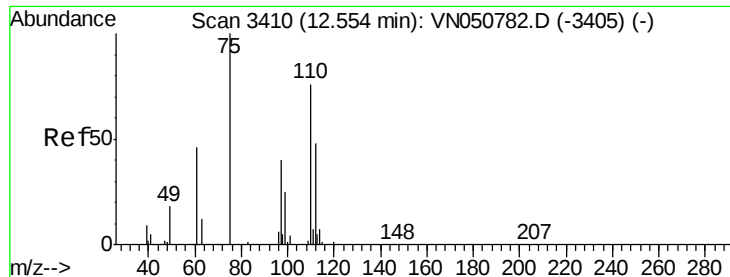


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

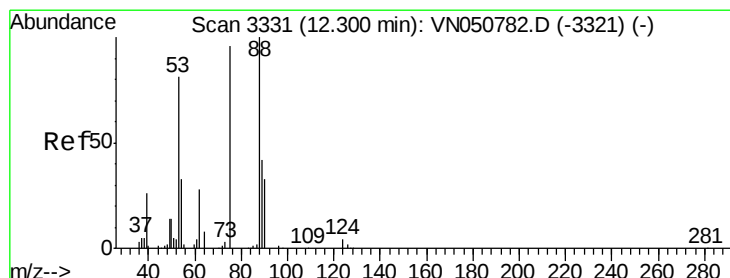
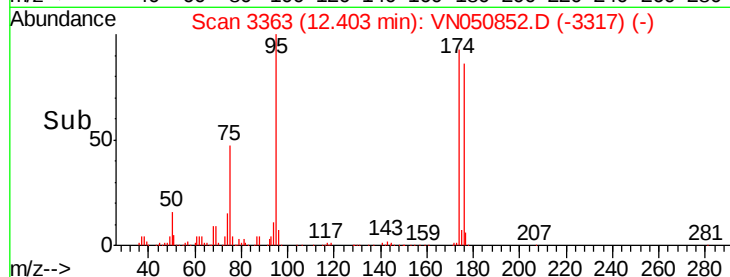
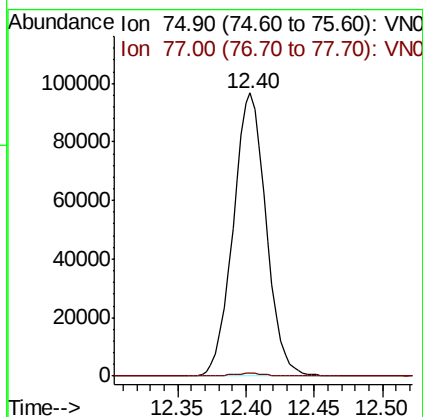
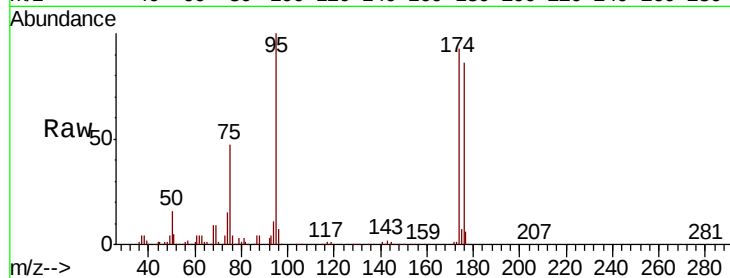
ClientSampled :

Tot Ion: 75 Resp: 161525

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

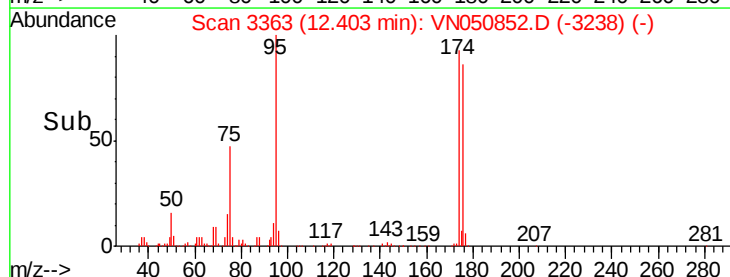
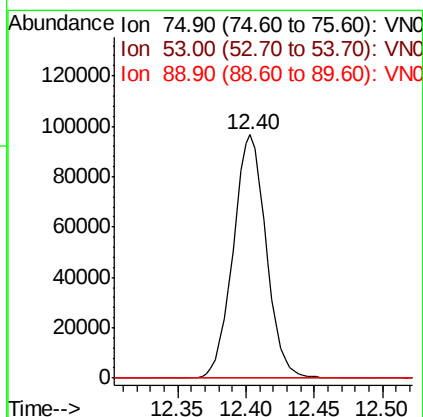
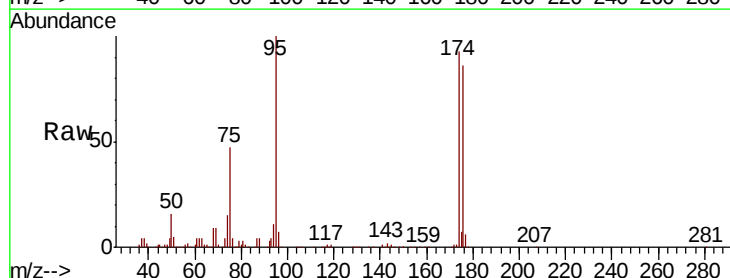
Tgt Ion: 75 Resp: 161525

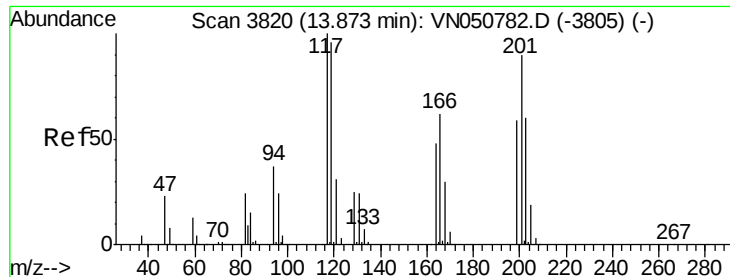
Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

89 0.0 36.1 54.1#





#90

Hexachloroethane

Concen: 0.29 ug/l

RT: 13.89 min Scan# 3825

Delta R.T. 0.02 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

Instrument :

MSVOA_N

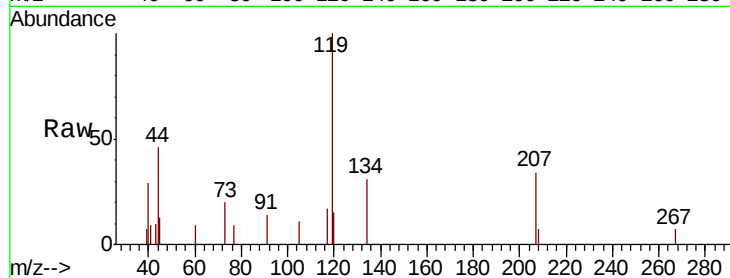
ClientSampleId :

Tot Ion:117 Resp: 347

Ion Ratio Lower Upper

117 100

201 0.0 46.0 137.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

400

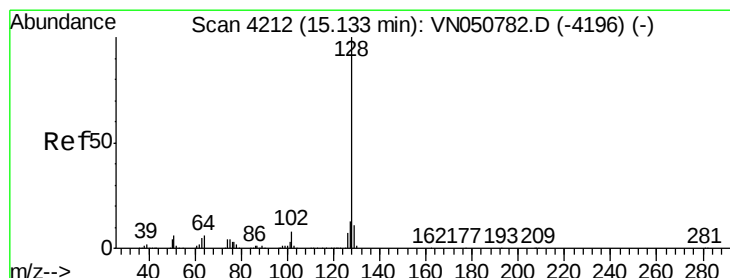
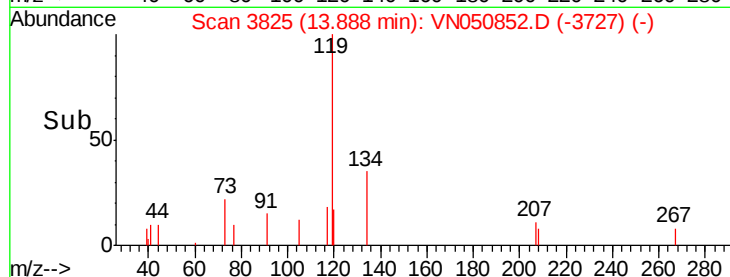
300

200

100

0

Time--> 13.86 13.88 13.90



#95

Naphthalene

Concen: 6.24 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050852.D

Acq: 23 Aug 2018 14:46

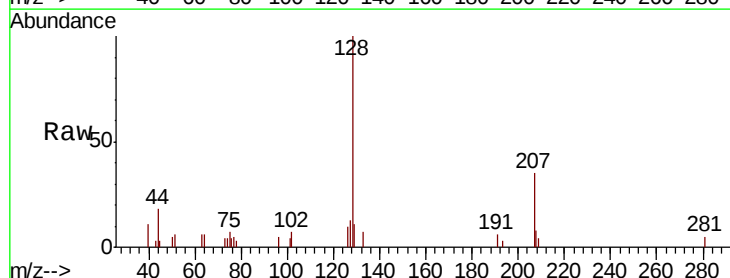
Tgt Ion:128 Resp: 10031

Ion Ratio Lower Upper

128 100

127 12.1 10.5 15.7

129 9.3 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

6000

4000

2000

0

Time--> 15.10 15.13 15.16 15.20

