

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050923.D
 Acq On : 28 Aug 2018 19:27
 Operator : MD\SY
 Sample : PB112421ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

Quant Time: Aug 29 03:55:00 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	625347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	998368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	849280	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	284037	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	403279	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
35) Dibromofluoromethane	7.59	113	380668	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	10.09	98	1365211	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	
62) 4-Bromofluorobenzene	12.40	95	362144	36.70	ug/l	0.00
Spiked Amount			Recovery	=	73.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2595	0.25	ug/l	93
5) Bromomethane	2.57	94	3134	Below	Cal	82
10) Methyl Iodide	3.95	142	1578	6.54	ug/l #	74
13) Acrolein	3.61	56	97	18.23	ug/l #	14
16) Acetone	3.83	43	15626	1.75	ug/l	98
17) Carbon Disulfide	4.05	76	6439	0.27	ug/l	97
18) Methyl Acetate	4.34	43	10781	1.52	ug/l	91
20) Methylene Chloride	4.55	84	6604	0.78	ug/l	96
25) 2-Butanone	6.85	43	3290	1.08	ug/l	91
29) Tetrahydrofuran	7.22	42	816	0.47	ug/l #	52
31) Cyclohexane	7.67	56	11088	1.32	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40155	3.41	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54670	4.59	ug/l #	17
41) Methacrylonitrile	7.22	41	909	0.25	ug/l #	24
43) Isopropyl Acetate	8.17	43	281701	24.21	ug/l	98
48) Methyl methacrylate	9.18	41	7664	1.29	ug/l #	22
49) 1,4-Dioxane	9.21	88	30	0.37	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3388	0.49	ug/l	97
56) Ethyl methacrylate	10.43	69	112	2.36	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.70	63	65	12.23	ug/l #	47
59) 2-Hexanone	10.77	43	21275	4.60	ug/l #	57
70) Styrene	11.97	104	1588	1.34	ug/l	94
74) N-ethyl acetate	12.07	43	1192	0.20	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.50	83	595	Below	Cal #	79
76) 1,2,3-Trichloropropane	12.40	75	171298	34.43	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5605	0.30	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	171298	116.40	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	2518	0.23	ug/l	93
88) 1,4-Dichlorobenzene	13.28	146	2518	0.24	ug/l	93
90) Hexachloroethane	13.88	117	142	0.23	ug/l #	4
91) 1,2-Dichlorobenzene	13.66	146	2415	0.23	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	249	0.29	ug/l #	40
93) 1,2,4-Trichlorobenzene	14.91	180	3117	4.61	ug/l	97
94) Hexachlorobutadiene	15.01	225	1437	Below	Cal	89

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QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

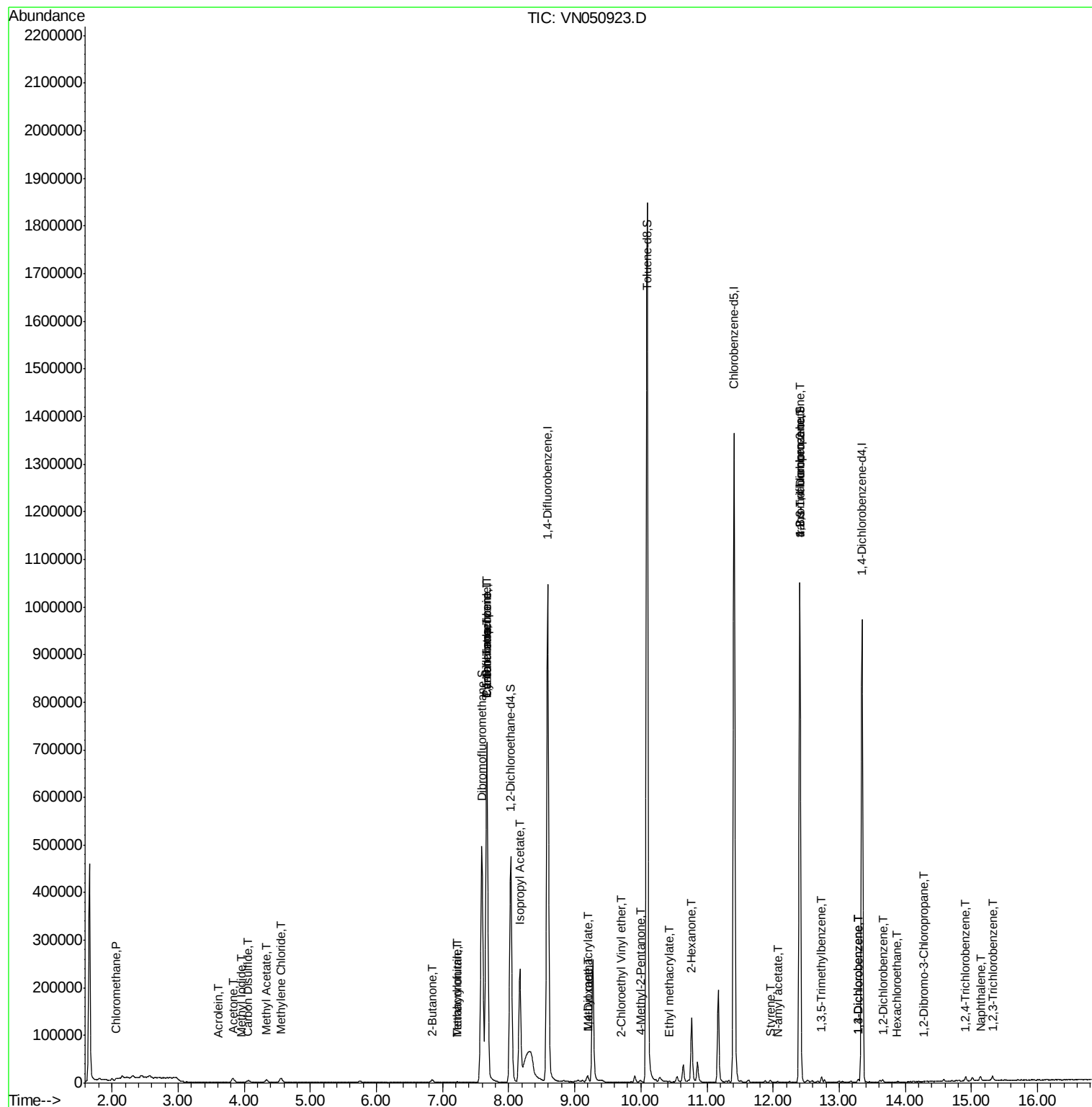
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.14	128	8338	6.06	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	3517	3.94	ug/l	99

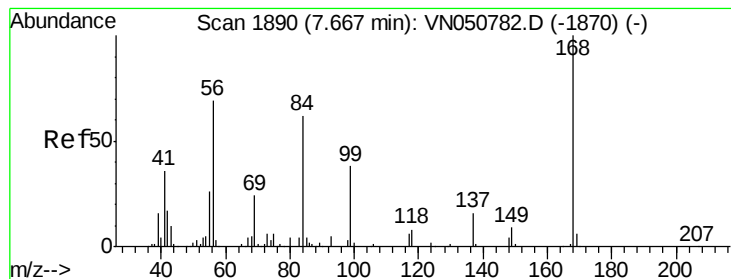
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

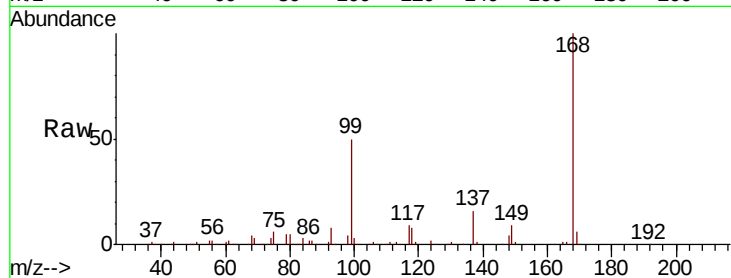
PB112421ZHE#01

Tot Ion:168 Resp: 625347

Ion Ratio Lower Upper

168 100

99 49.7 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

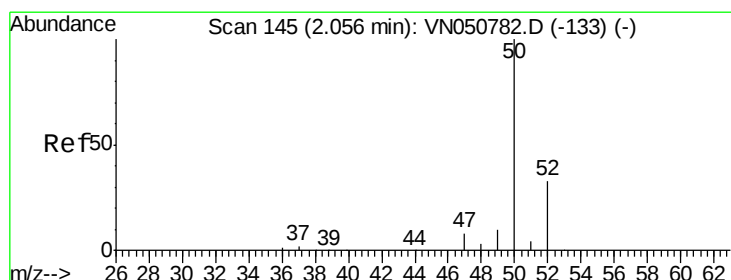
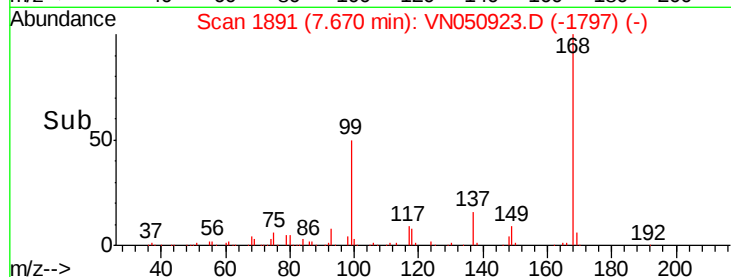
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050923.D

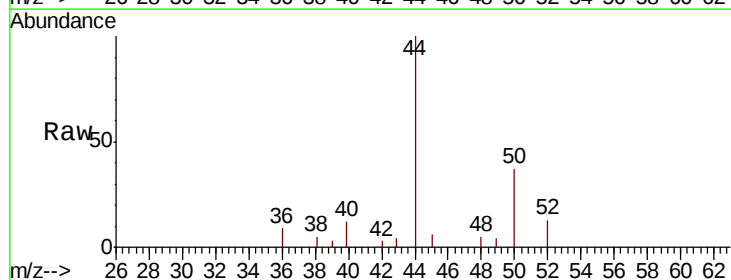
Acq: 28 Aug 2018 19:27

Tgt Ion: 50 Resp: 2595

Ion Ratio Lower Upper

50 100

52 36.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

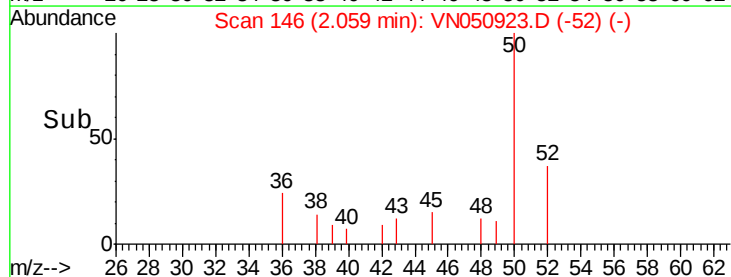
1500

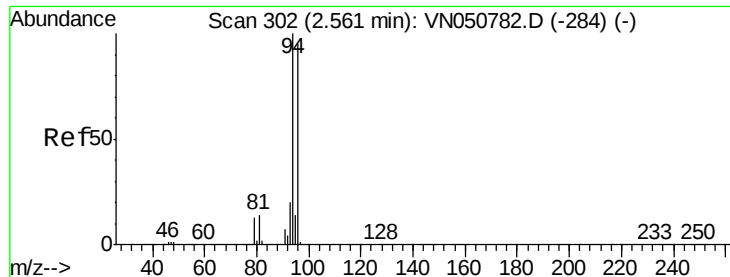
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

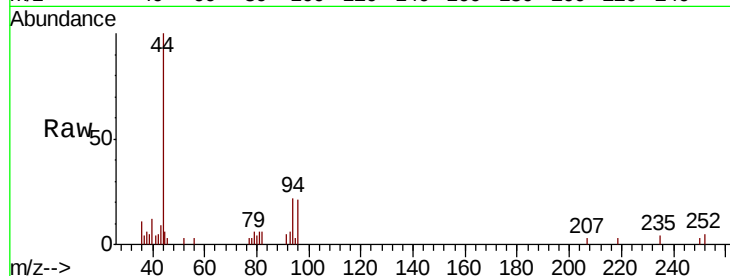
PB112421ZHE#01

Tot Ion: 94 Resp: 3134

Ion Ratio Lower Upper

94 100

96 77.9 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050923.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050923.D (-209) (-)

2.57

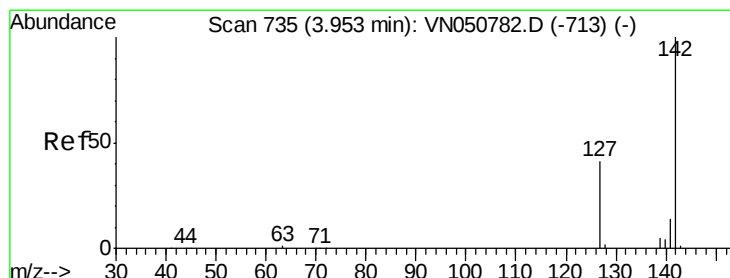
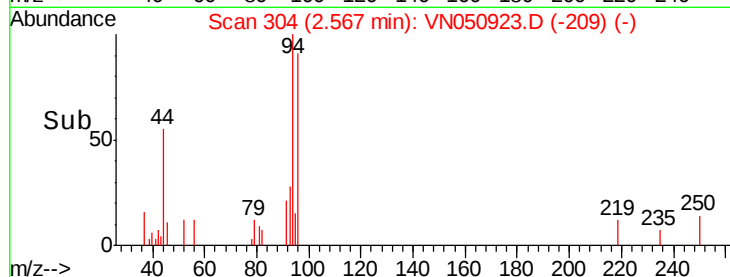
1500

1000

500

0

Time--> 2.50 2.55 2.60 2.65



#10

Methyl Iodide

Concen: 6.54 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

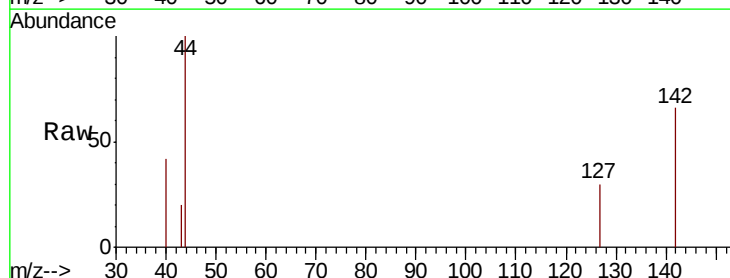
Tgt Ion: 142 Resp: 1578

Ion Ratio Lower Upper

142 100

127 23.3 31.7 47.5#

141 4.1 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050923.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050923.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050923.D (-642) (-)

3.95

800

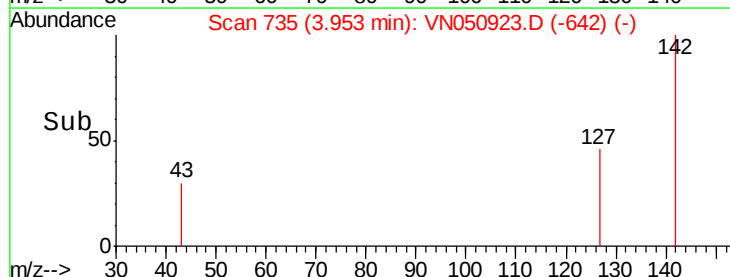
600

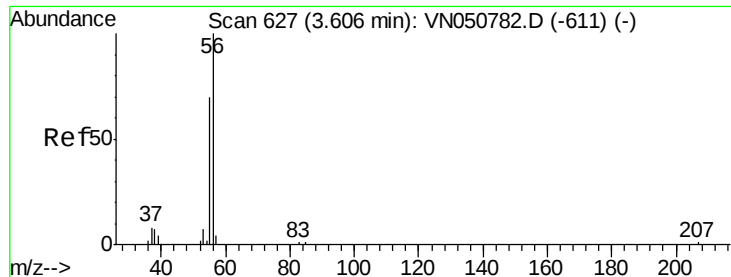
400

200

0

Time--> 3.90 3.95 4.00





#13

Acrolein

Concen: 18.23 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

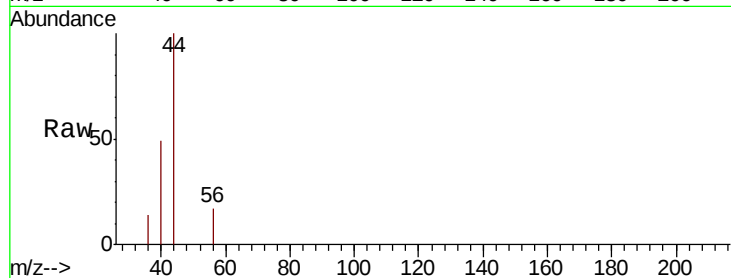
PB112421ZHE#01

Tot Ion: 56 Resp: 97

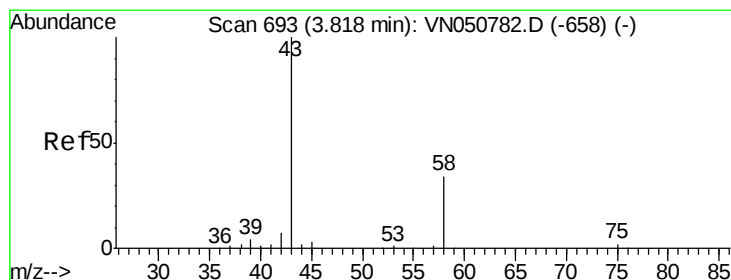
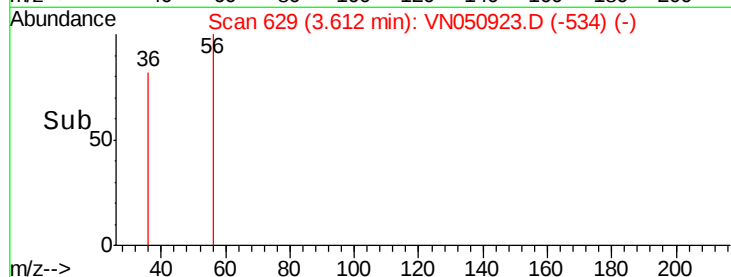
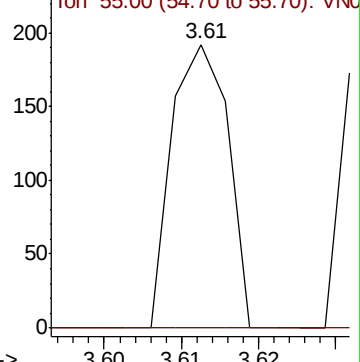
Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: 1.75 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050923.D

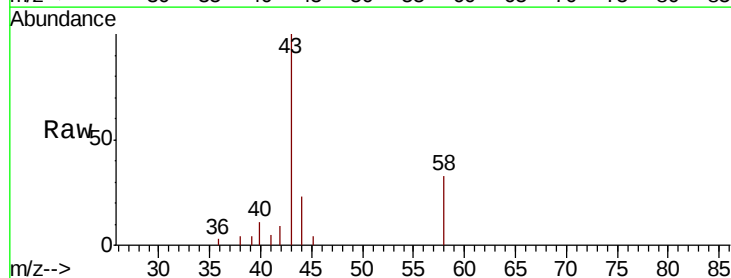
Acq: 28 Aug 2018 19:27

Tgt Ion: 43 Resp: 15626

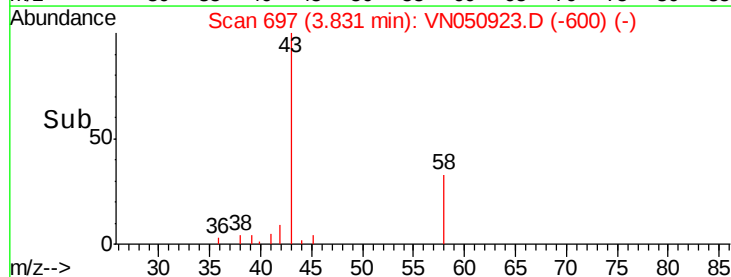
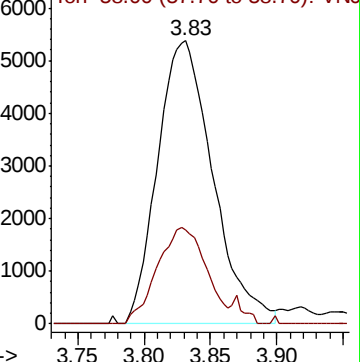
Ion Ratio Lower Upper

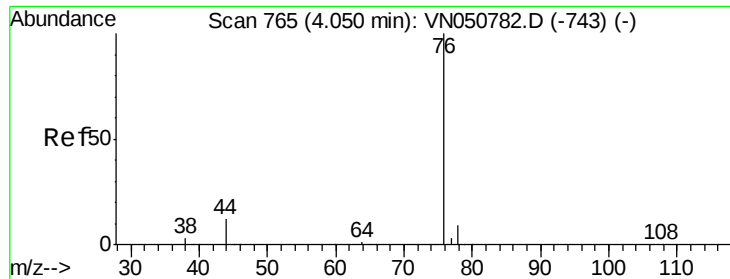
43 100

58 33.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

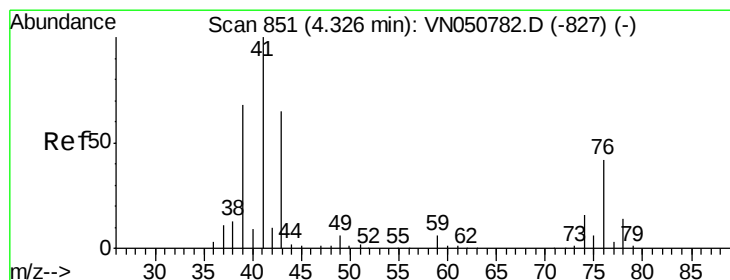
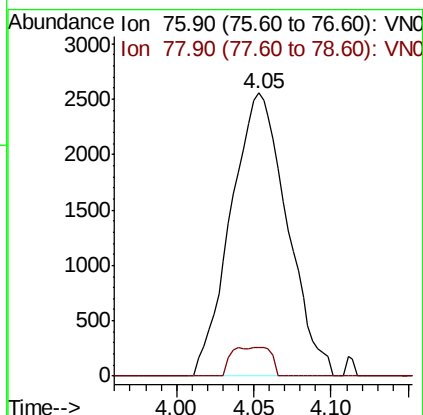
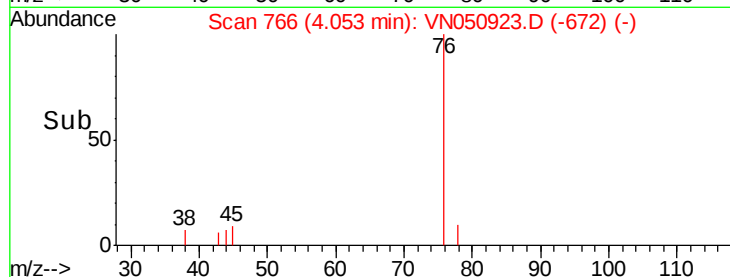
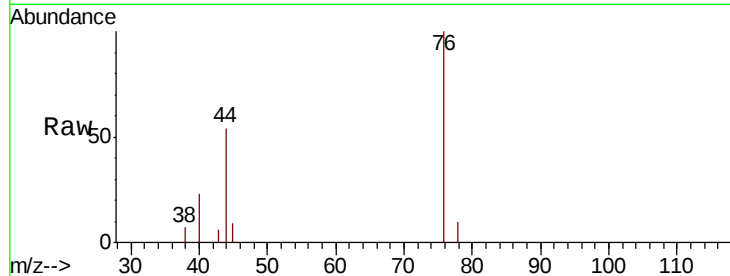




#17
Carbon Disulfide
Concen: 0.27 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

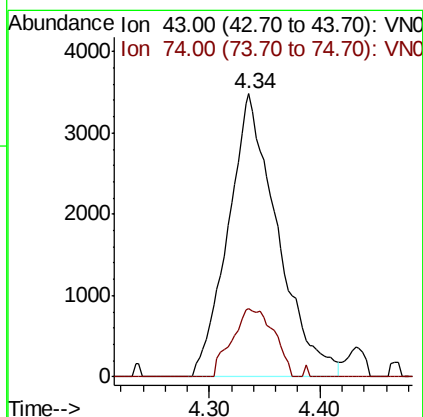
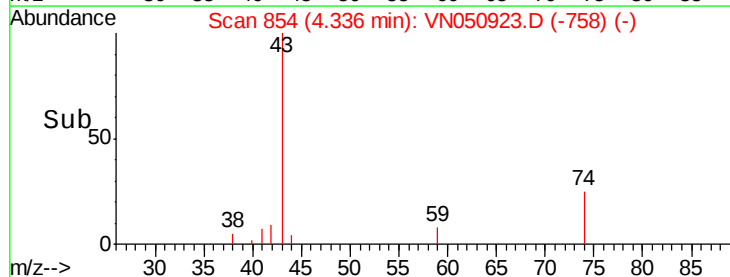
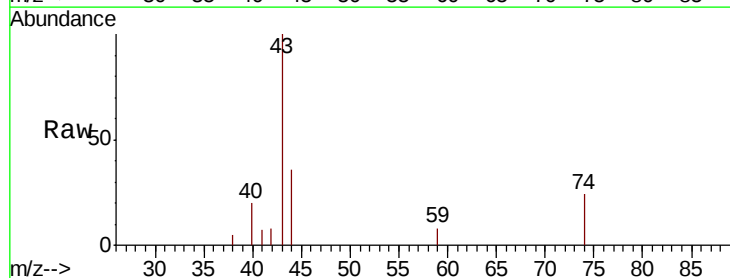
Instrument :
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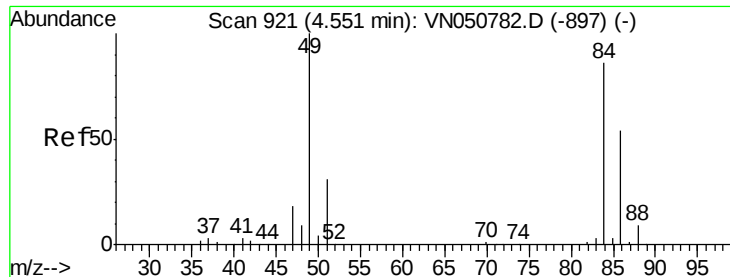
Tot Ion: 76 Resp: 6439
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9



#18
Methyl Acetate
Concen: 1.52 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

Tgt Ion: 43 Resp: 10781
Ion Ratio Lower Upper
43 100
74 20.5 19.8 29.8

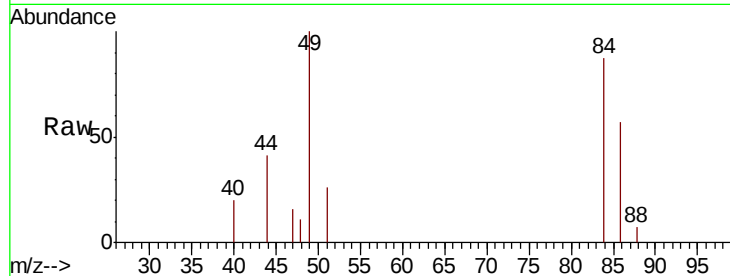




#20
Methvlene Chloride
Concen: 0.78 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#01

Tot Ion:	84	Resp:	6604
Ion	Ratio	Lower	Upper
84	100		
49	114.7	93.2	139.8
51	29.6	29.0	43.6
86	65.5	49.8	74.8



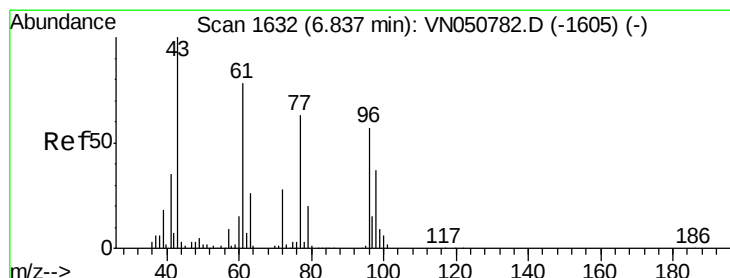
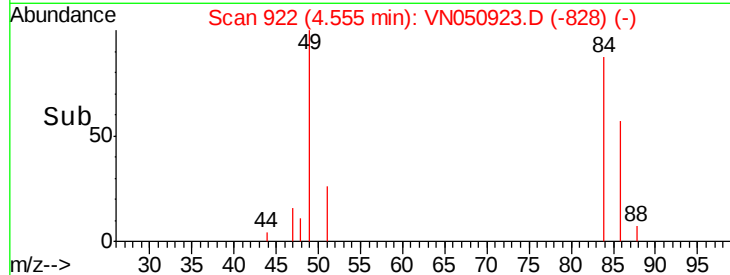
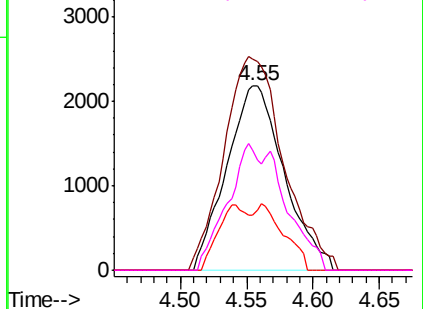
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

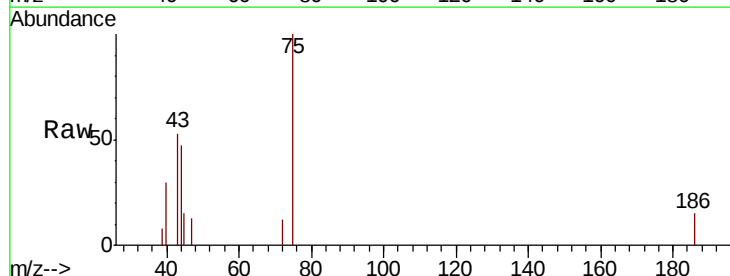
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 1.08 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

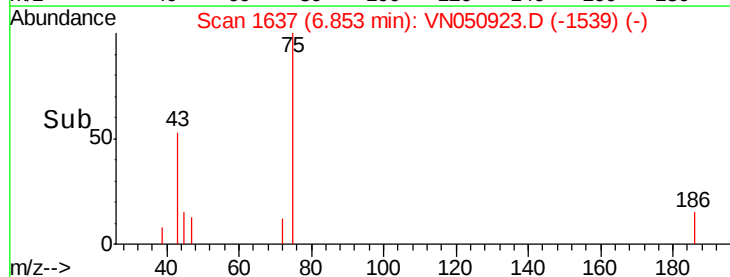
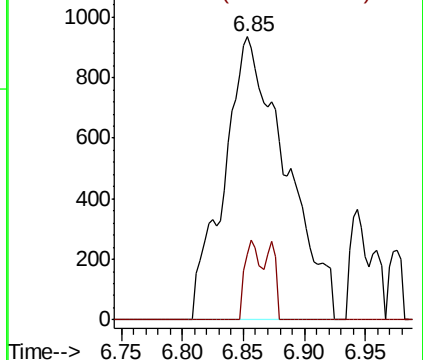
Tgt Ion:	43	Resp:	3290
Ion	Ratio	Lower	Upper
43	100		
72	23.1	22.3	33.5

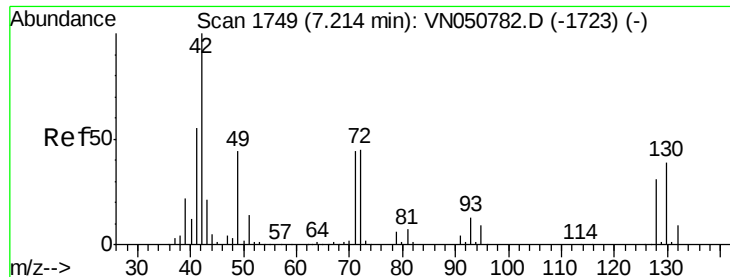


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

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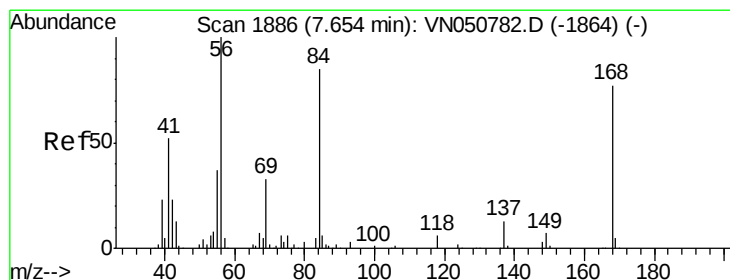
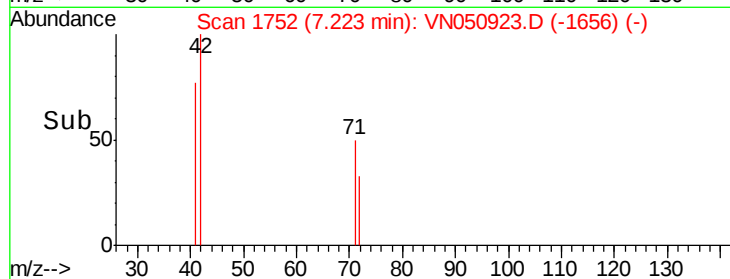
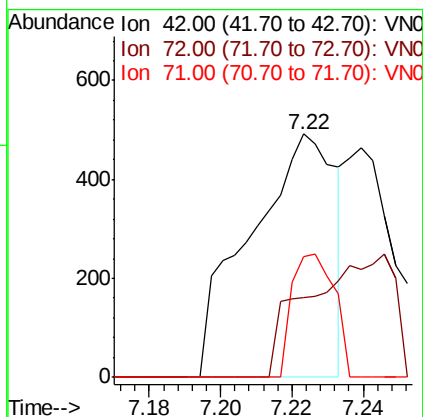
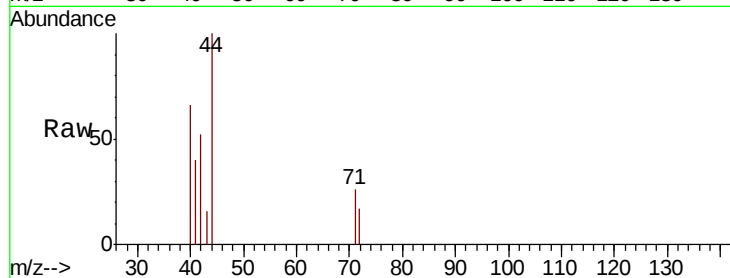
Tot Ion: 42 Resp: 816

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 25.0 33.7 50.5#



#31

Cyclohexane

Concen: 1.32 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

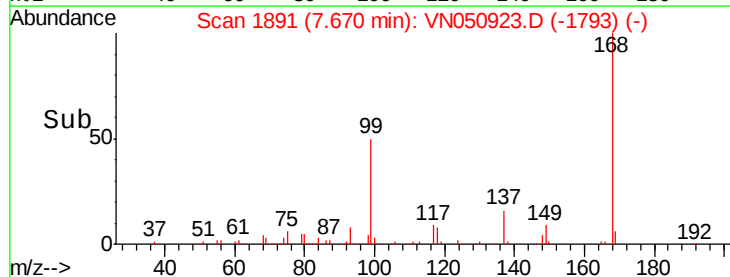
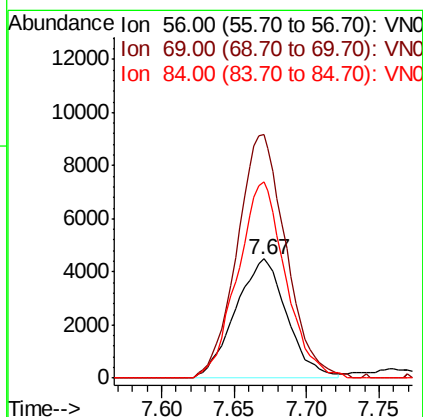
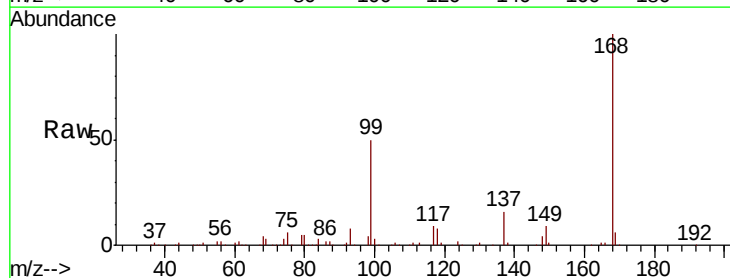
Tgt Ion: 56 Resp: 11088

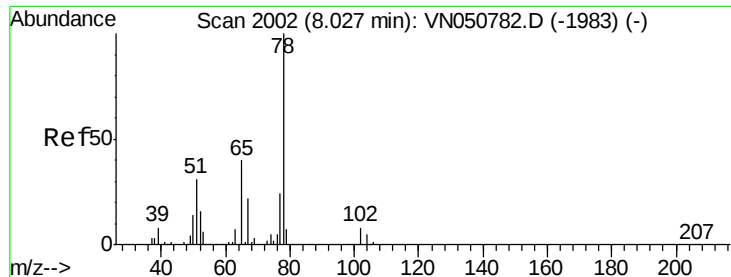
Ion Ratio Lower Upper

56 100

69 204.0 26.2 39.4#

84 164.5 68.3 102.5#

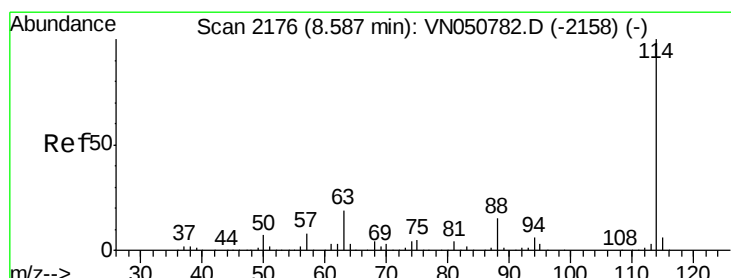
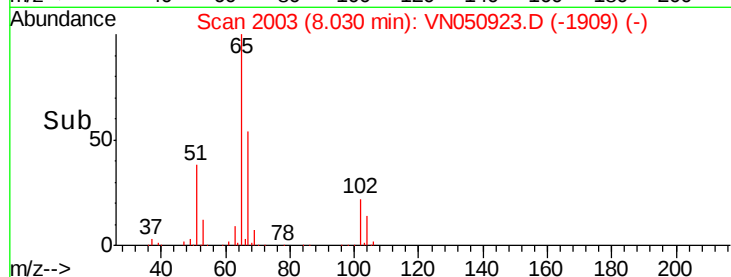
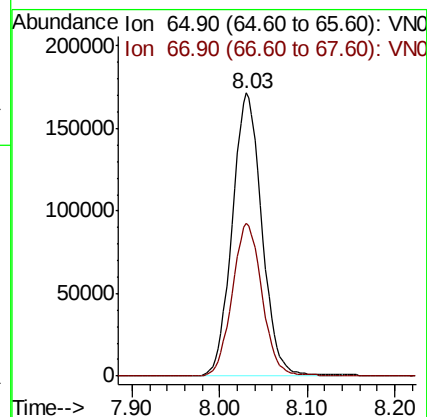
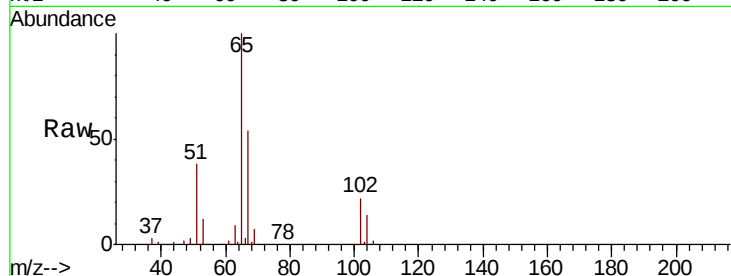




#33
 1,2-Dichloroethane-d4
 Concen: 53.57 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

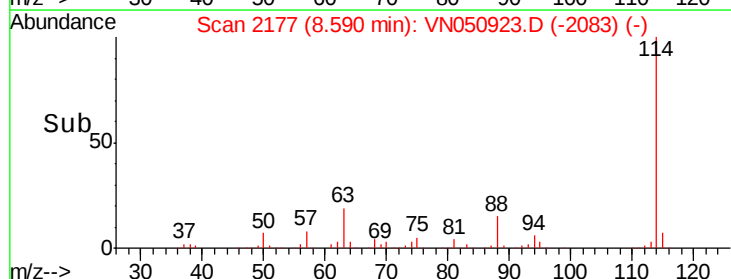
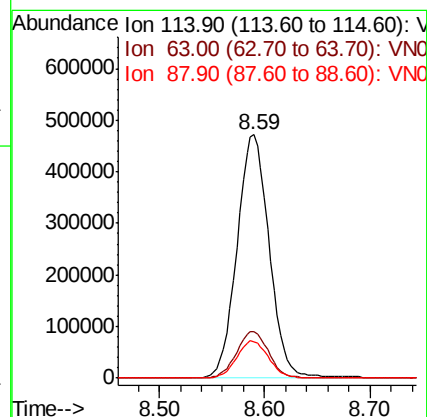
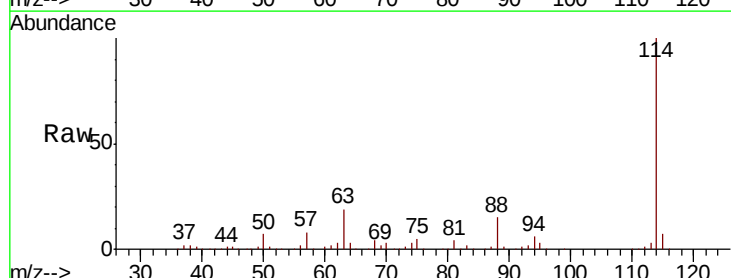
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

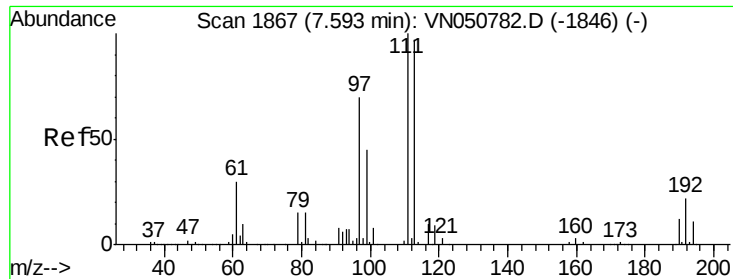
Tot Ion: 65 Resp: 403279
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Tgt Ion: 114 Resp: 998368
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.1 0.0 30.6

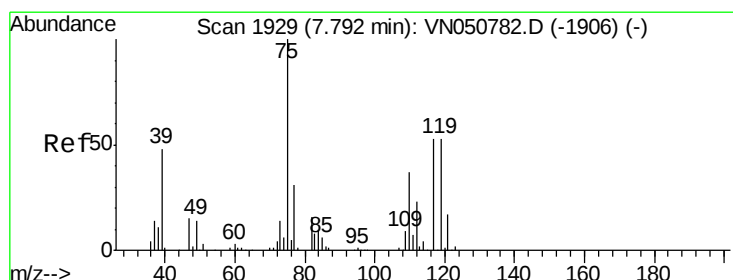
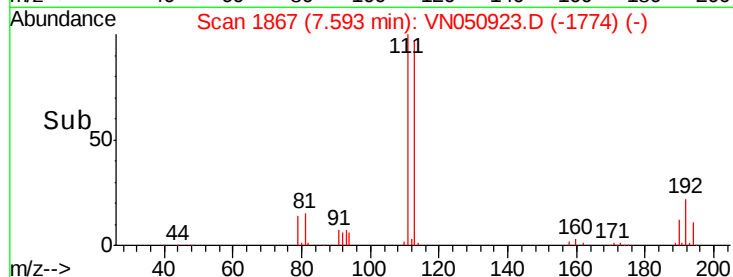
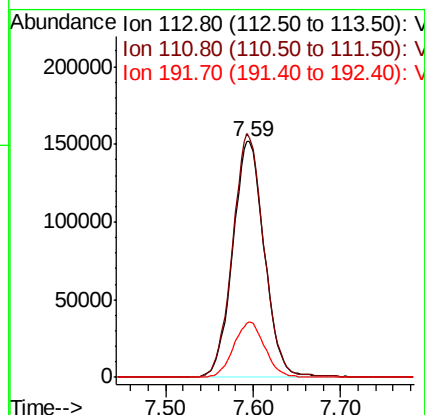
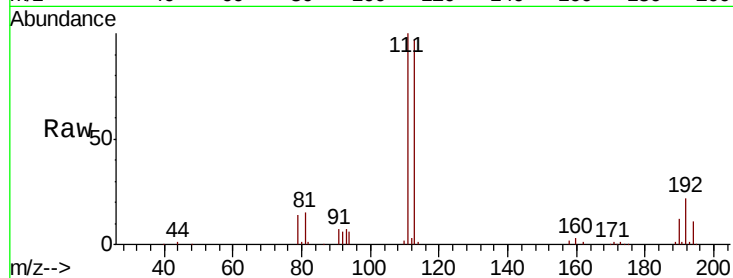




#35
 Dibromofluoromethane
 Concen: 47.93 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

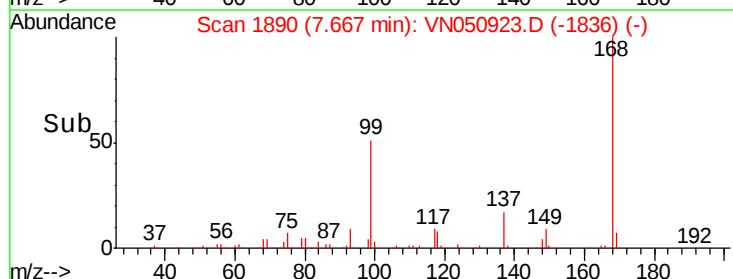
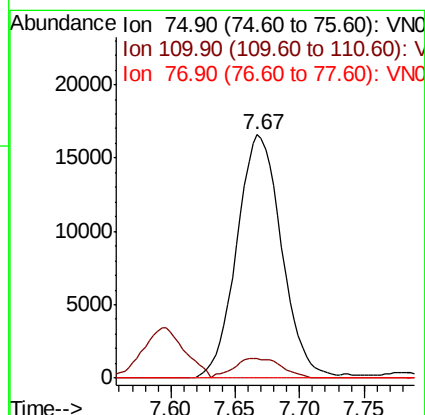
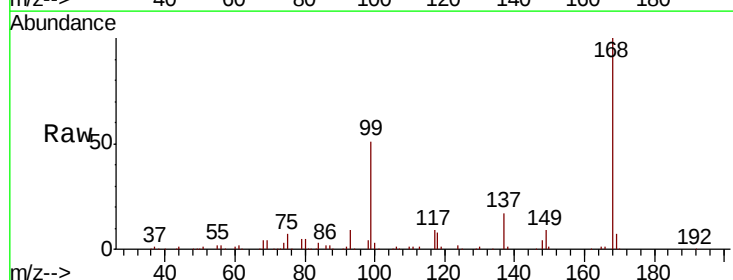
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

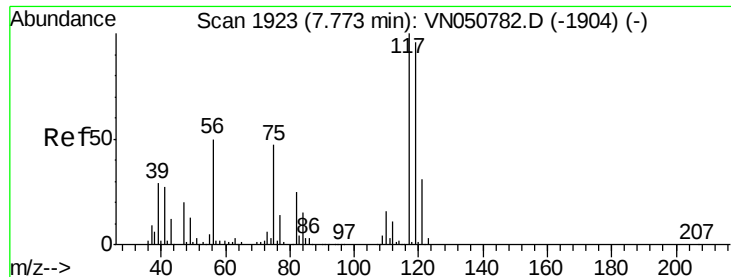
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	23.1	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.41 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

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: 4.59 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

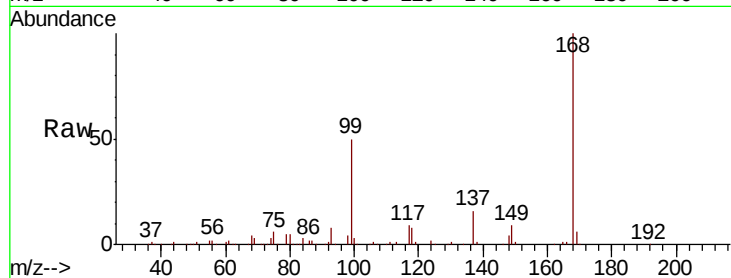
Tot Ion:117 Resp: 54670

Ion Ratio Lower Upper

117 100

119 6.1 76.3 114.5#

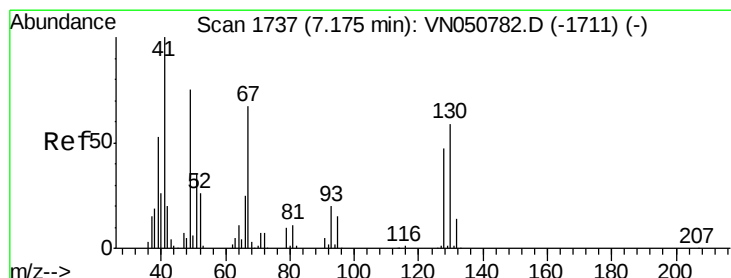
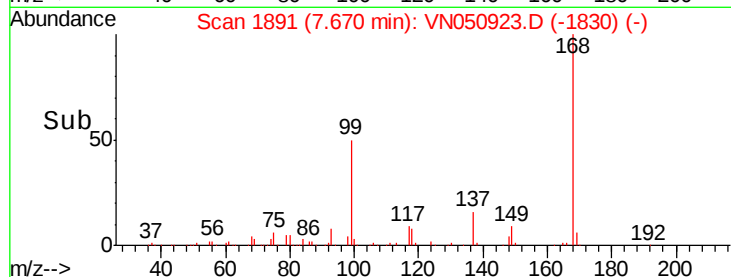
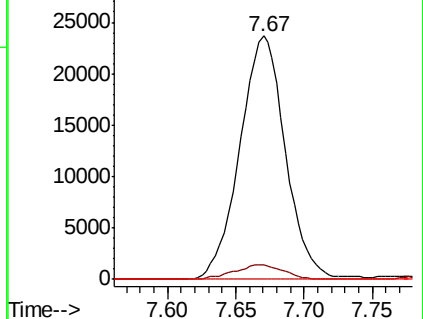
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.25 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.05 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Tgt Ion: 41 Resp: 909

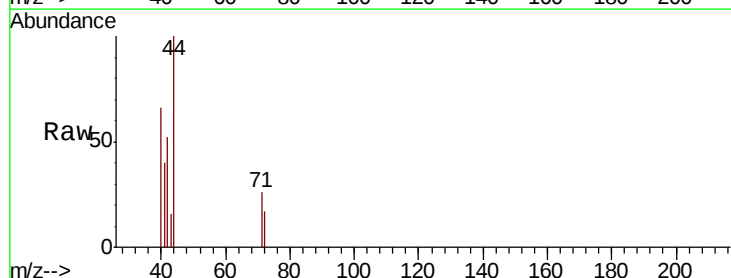
Ion Ratio Lower Upper

41 100

39 16.0 45.4 68.0#

67 0.0 70.6 106.0#

52 0.0 27.1 40.7#

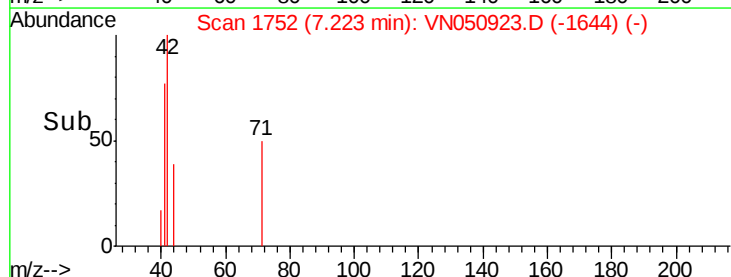
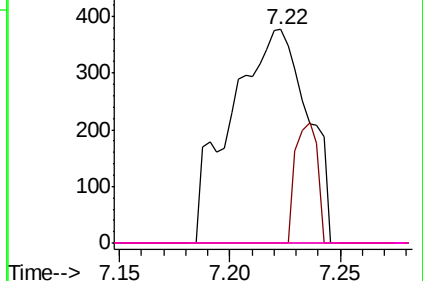


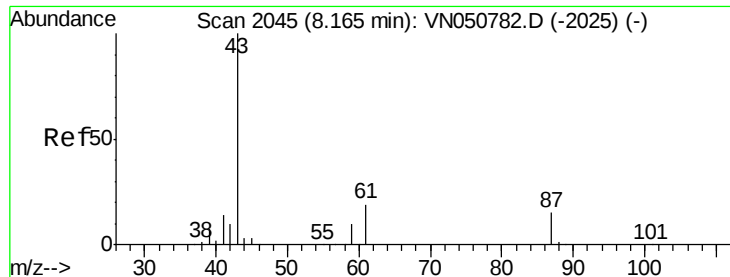
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 24.21 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

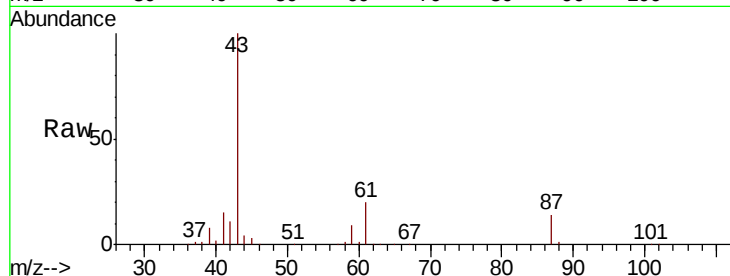
Tot Ion: 43 Resp: 281701

Ion Ratio Lower Upper

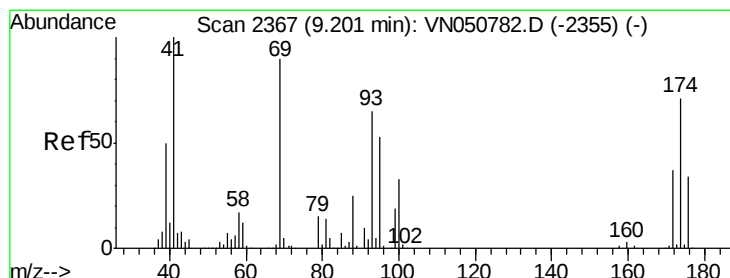
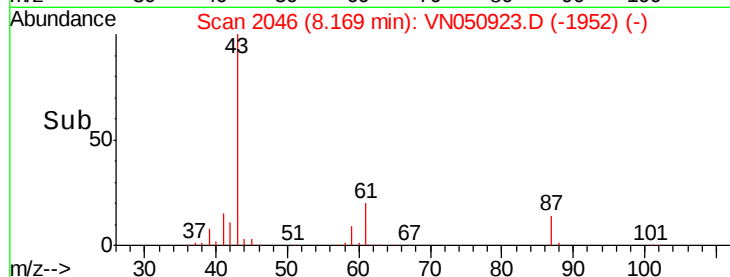
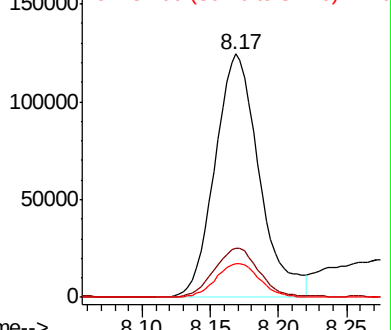
43 100

61 20.4 17.5 26.3

87 13.5 11.3 16.9



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



#48

Methyl methacrylate

Concen: 1.29 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

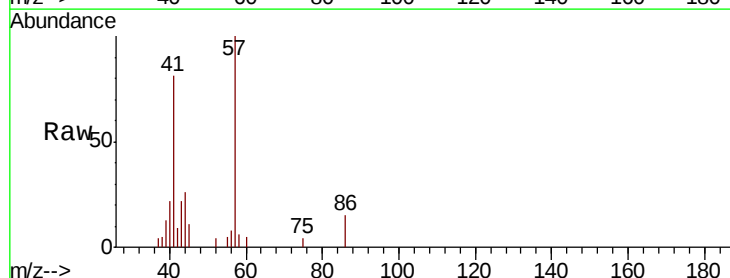
Tgt Ion: 41 Resp: 7664

Ion Ratio Lower Upper

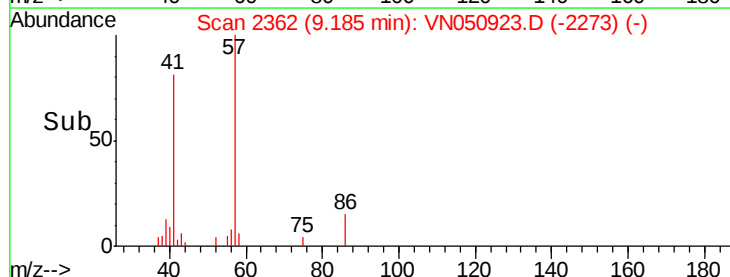
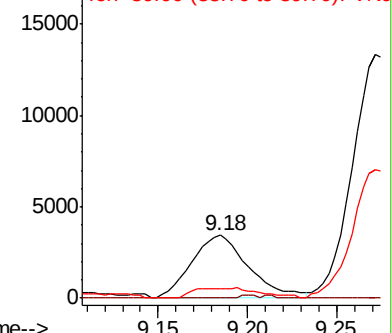
41 100

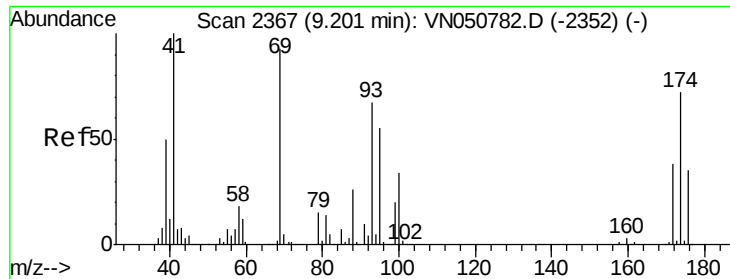
69 1.3 74.7 112.1#

39 18.9 42.2 63.2#



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





#49

1,4-Dioxane

Concen: 0.37 ug/l

RT: 9.21 min Scan# 2369

Delta R.T. 0.01 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

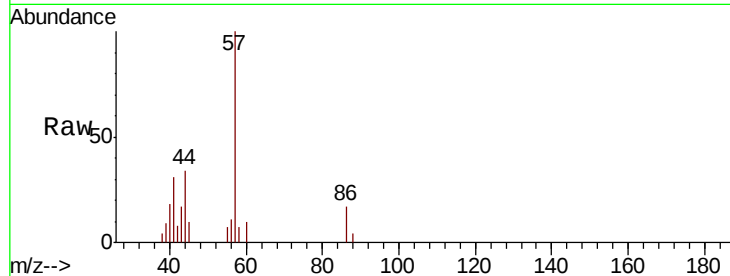
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 0.0 25.9 38.9#

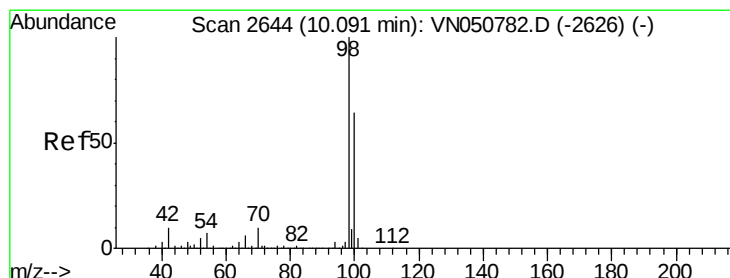
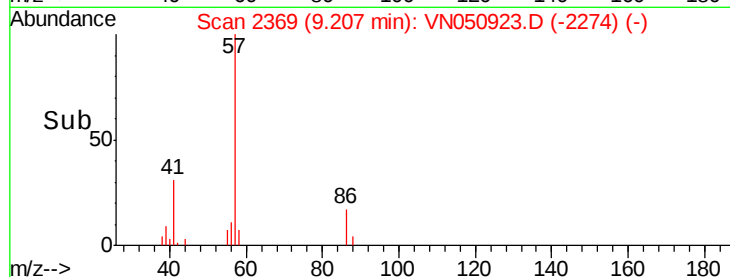
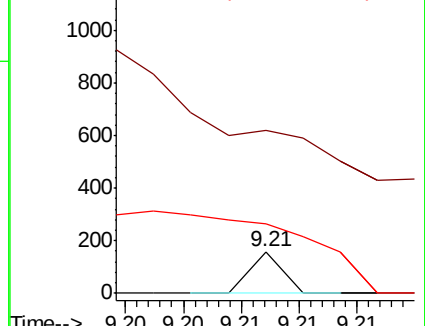
58 1920.0 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 45.97 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050923.D

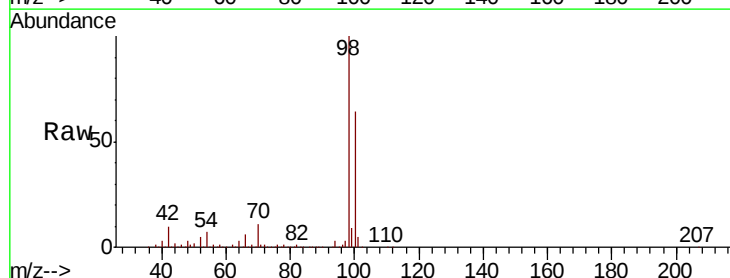
Acq: 28 Aug 2018 19:27

Tgt Ion: 98 Resp: 1365211

Ion Ratio Lower Upper

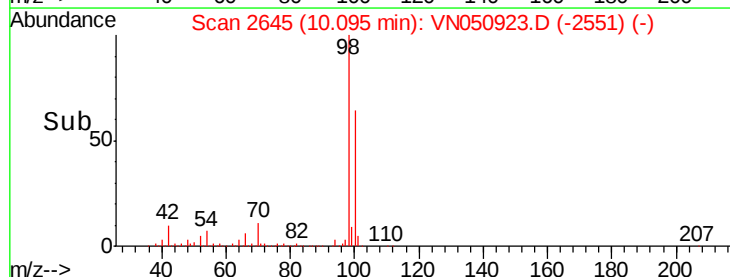
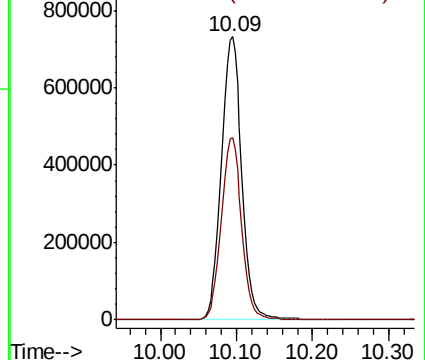
98 100

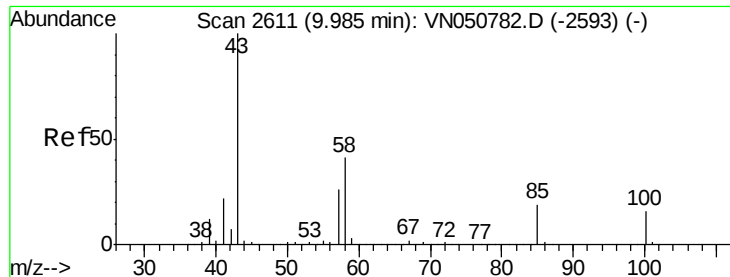
100 64.3 51.5 77.3



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: 0.49 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

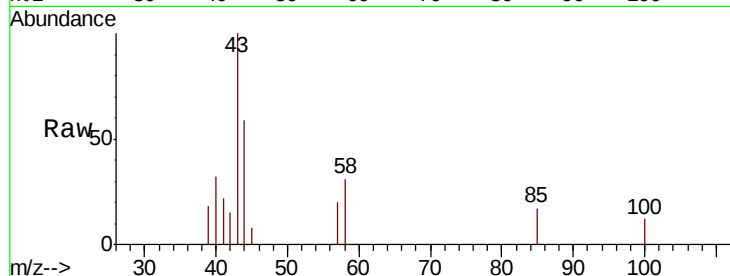
PB112421ZHE#01

Tot Ion: 43 Resp: 3388

Ion Ratio Lower Upper

43 100

58 42.1 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN050923.D (-2518) (-)

Ion 58.00 (57.70 to 58.70): VN050923.D (-2518) (-)

2500

2000

1500

1000

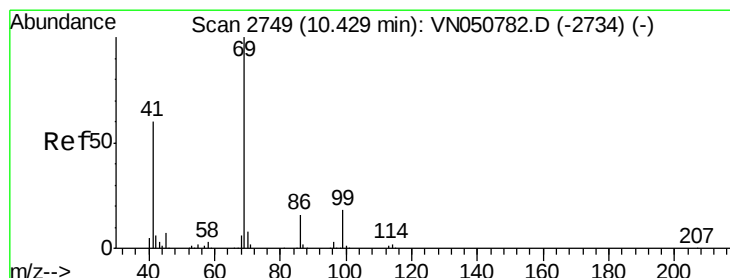
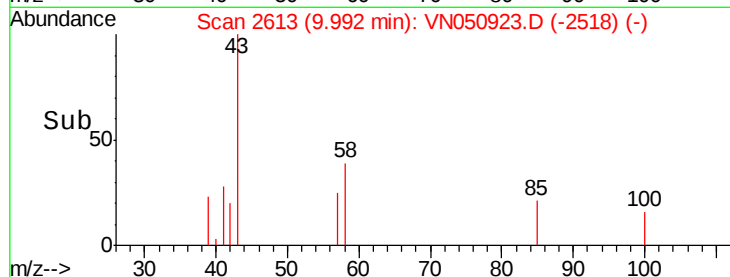
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.36 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

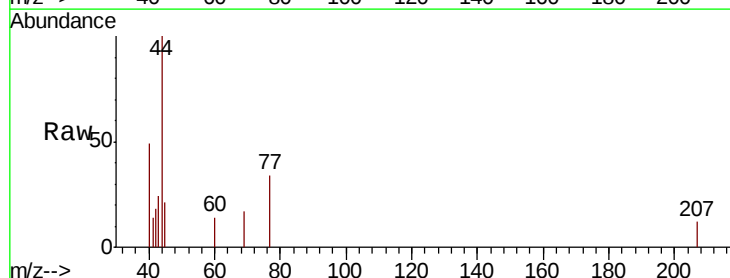
Tgt Ion: 69 Resp: 112

Ion Ratio Lower Upper

69 100

41 161.6 48.3 72.5#

39 0.0 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050923.D (-2655) (-)

Ion 41.00 (40.70 to 41.70): VN050923.D (-2655) (-)

Ion 39.00 (38.70 to 39.70): VN050923.D (-2655) (-)

300

200

100

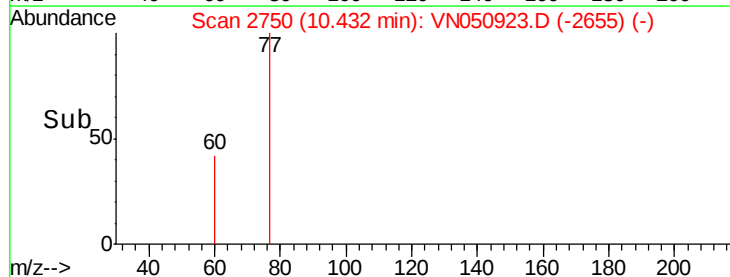
0

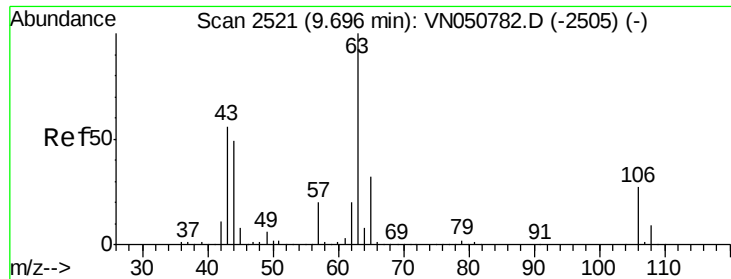
10.42

10.43

10.44

Time-->

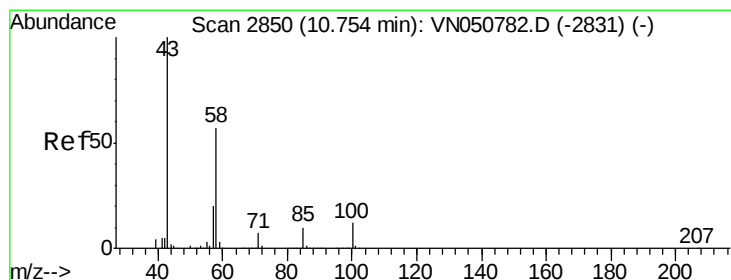
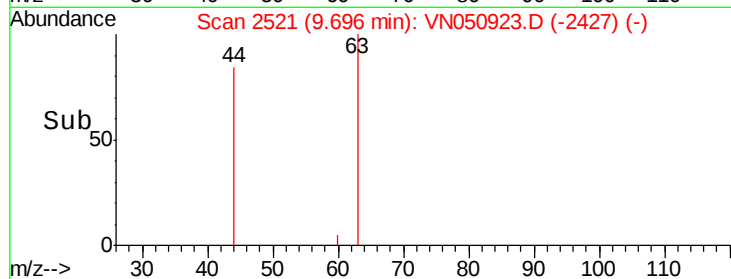
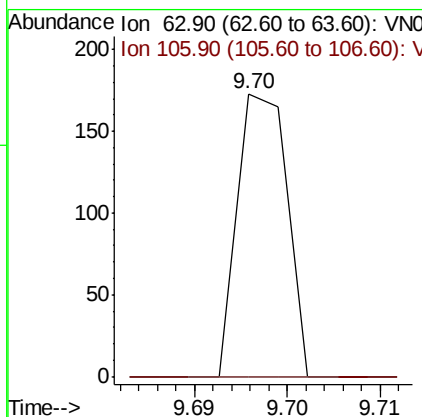
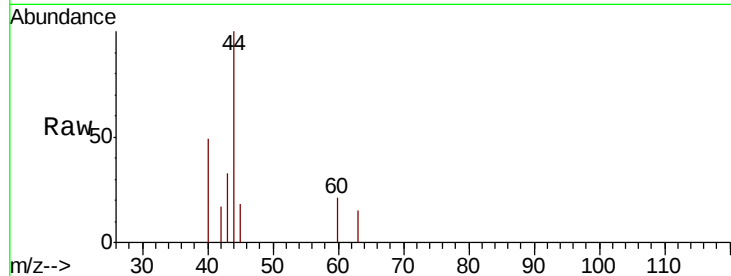




#58
 2-Chloroethyl Vinyl ether
 Concen: 12.23 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

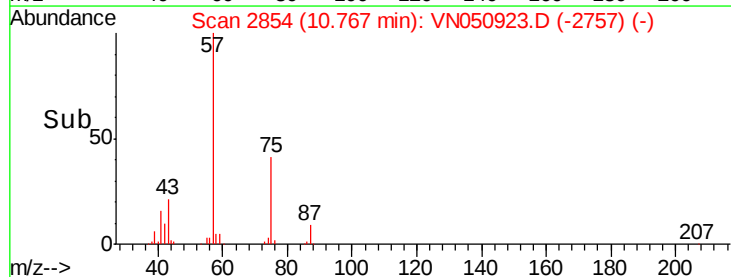
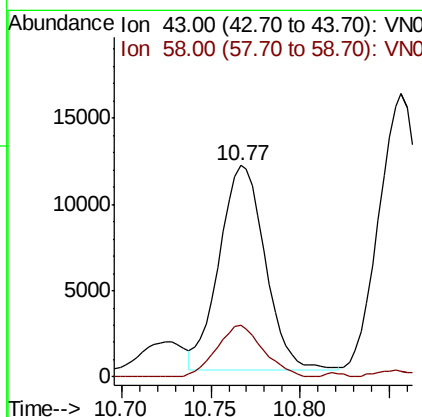
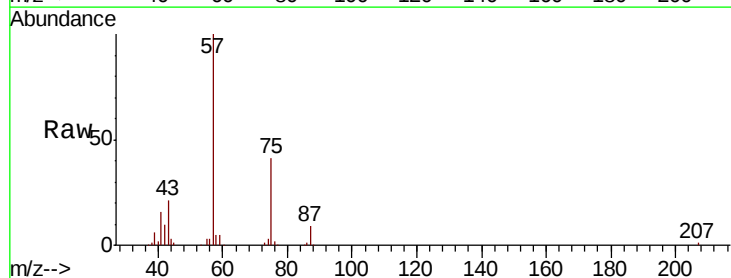
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

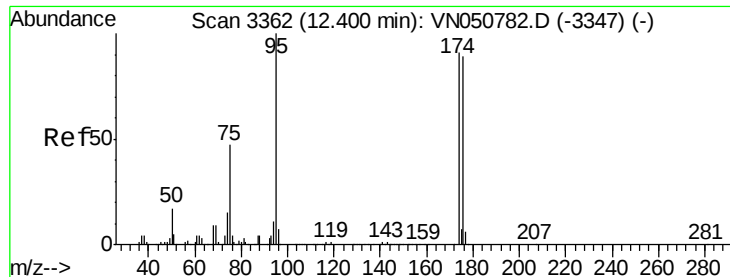
Tot Ion: 63 Resp: 65
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.9 32.9#



#59
 2-Hexanone
 Concen: 4.60 ug/l
 RT: 10.77 min Scan# 2854
 Delta R.T. 0.01 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Tgt Ion: 43 Resp: 21275
 Ion Ratio Lower Upper
 43 100
 58 25.4 28.3 85.0#

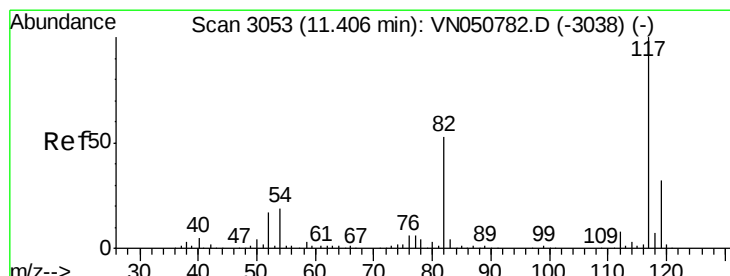
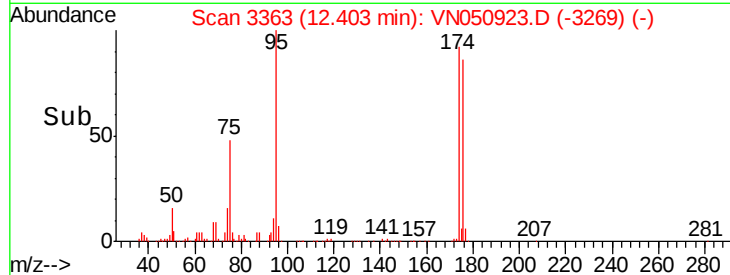
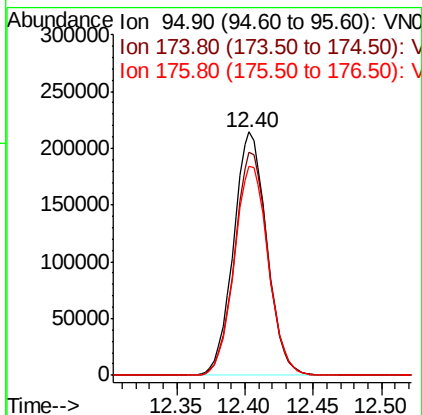
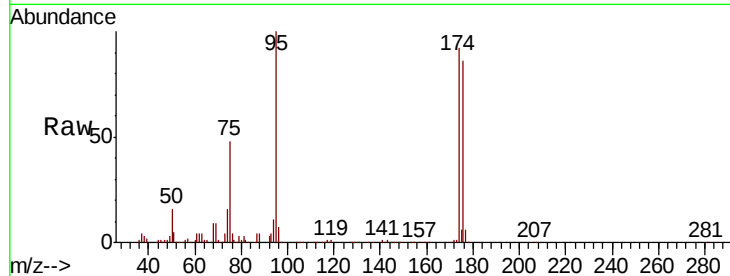




#62
4-Bromofluorobenzene
Concen: 36.70 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

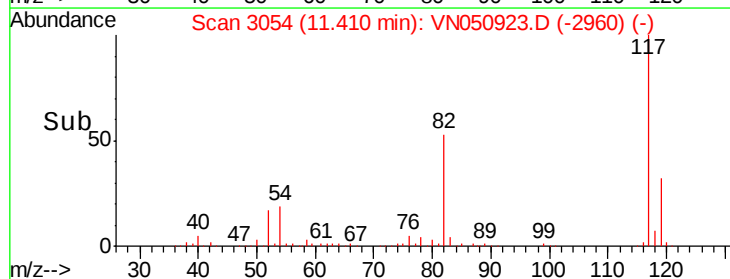
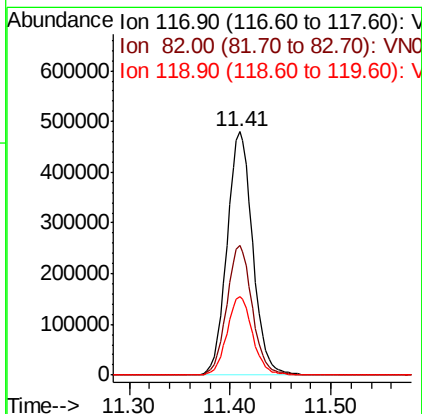
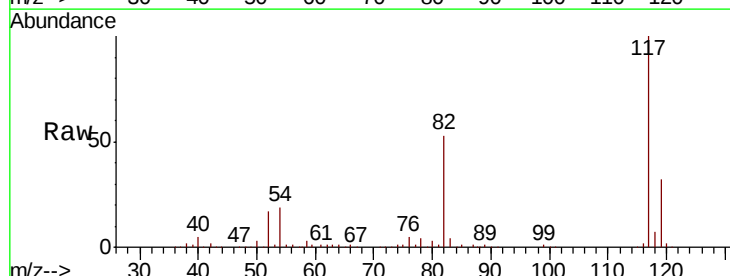
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#01

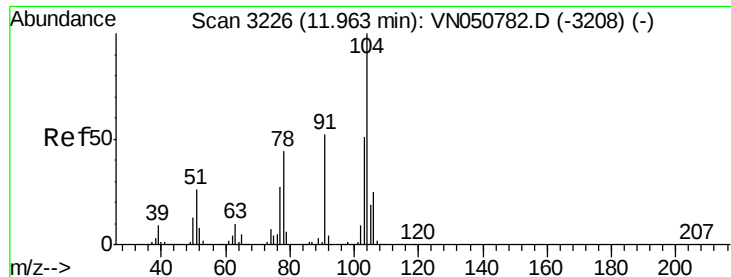
Tot Ion: 95 Resp: 362144
Ion Ratio Lower Upper
95 100
174 92.6 0.0 183.0
176 88.3 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

Tgt Ion: 117 Resp: 849280
Ion Ratio Lower Upper
117 100
82 53.2 42.6 64.0
119 32.3 25.8 38.6

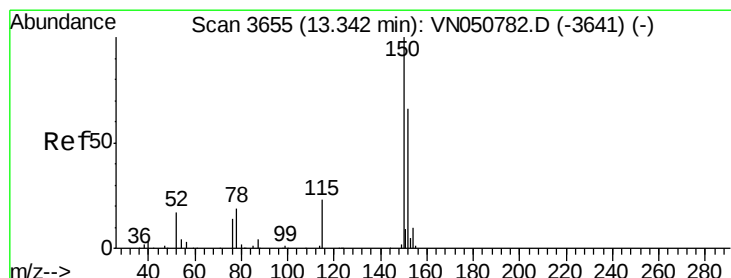
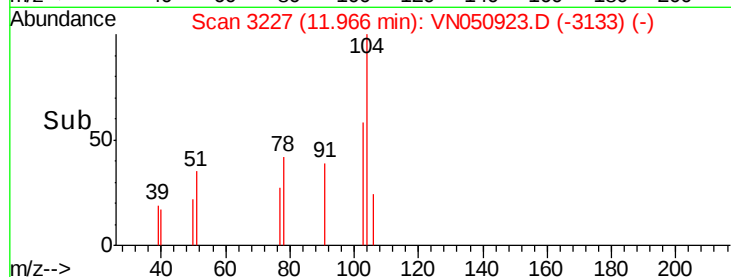
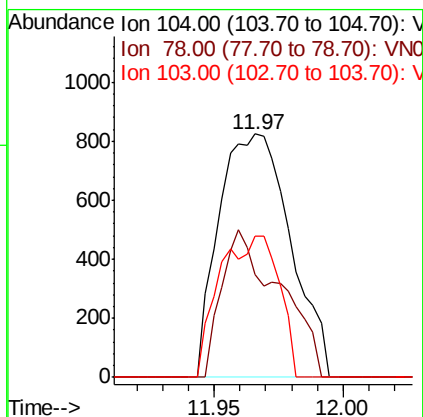
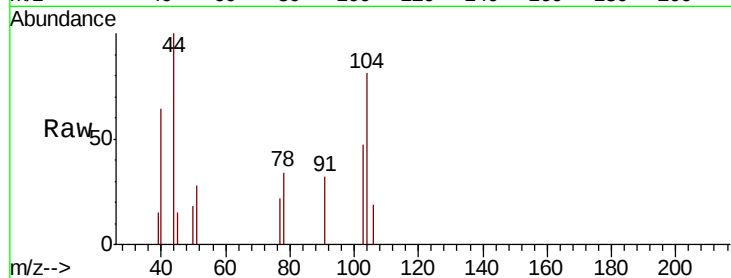




#70
Stvrene
Concen: 1.34 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

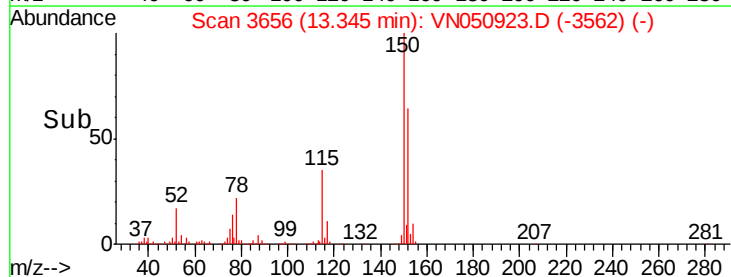
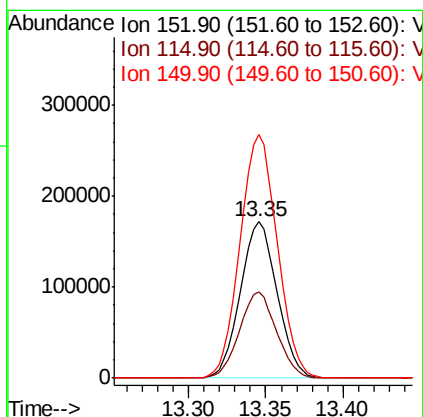
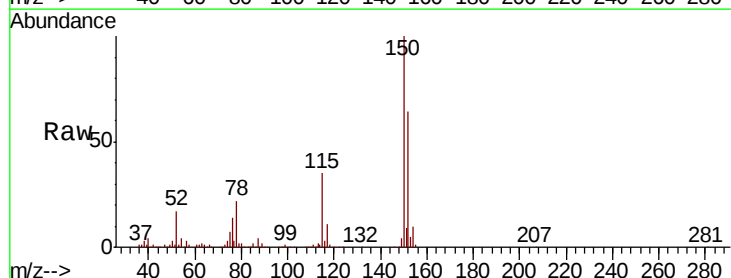
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#01

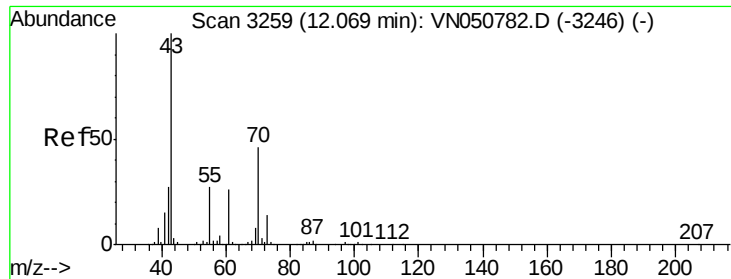
Tot Ion:104 Resp: 1588
Ion Ratio Lower Upper
104 100
78 49.4 38.2 57.4
103 48.5 44.4 66.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050923.D
Acq: 28 Aug 2018 19:27

Tgt Ion:152 Resp: 284037
Ion Ratio Lower Upper
152 100
115 55.3 27.8 83.4
150 157.7 0.0 351.4





#74

N-amvl acetate

Concen: 0.20 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

Tot Ion: 43 Resp: 1192

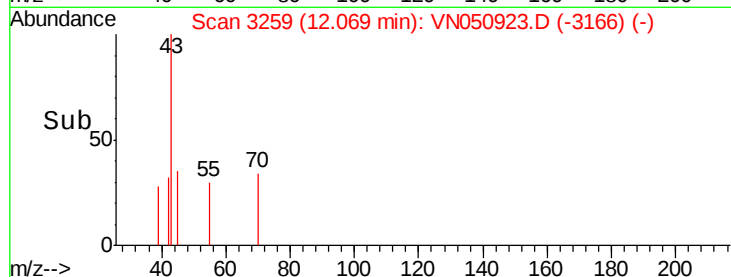
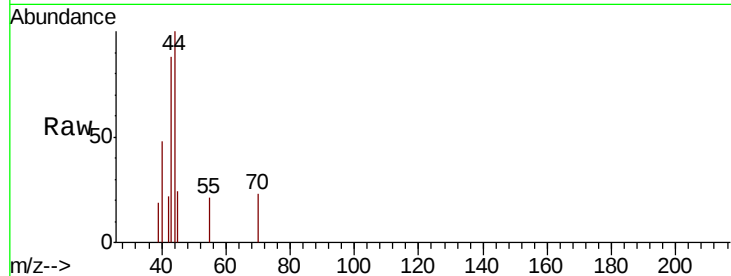
Ion Ratio Lower Upper

43 100

70 24.4 36.2 54.2#

55 15.5 21.8 32.8#

61 0.0 20.5 30.7#

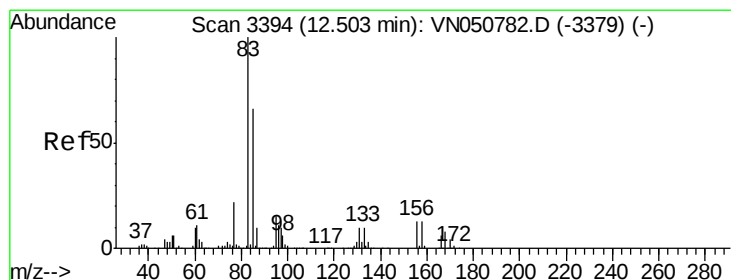
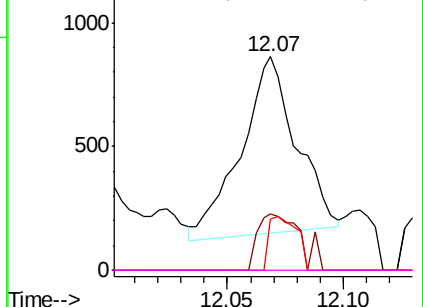


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

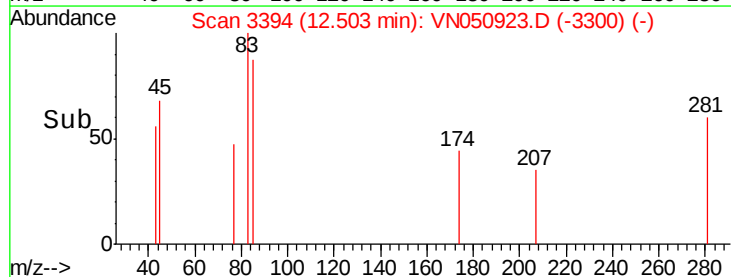
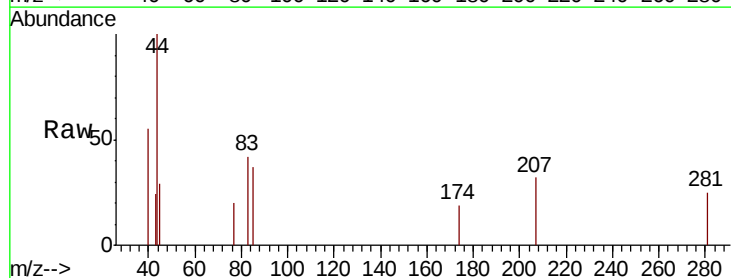
Tgt Ion: 83 Resp: 595

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

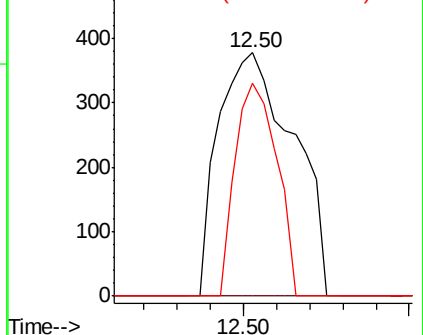
85 48.4 31.9 95.7

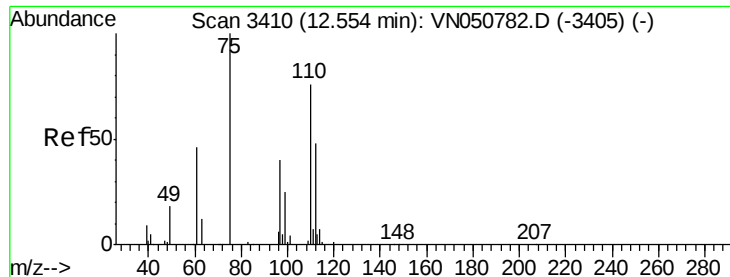


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 34.43 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

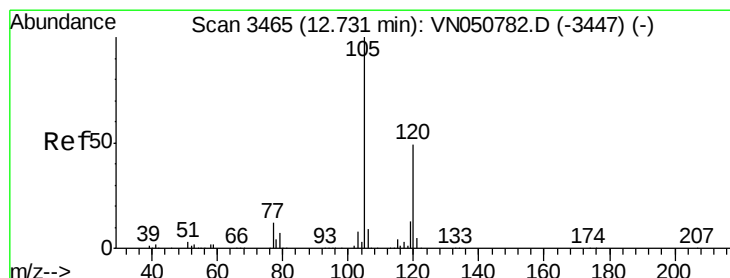
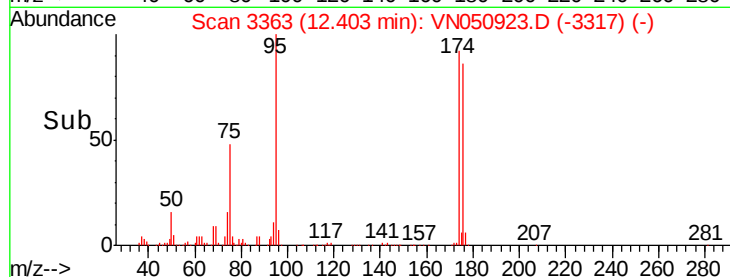
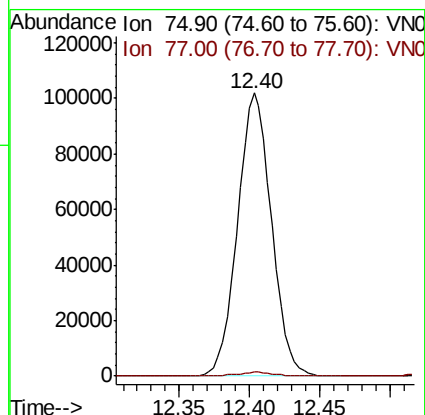
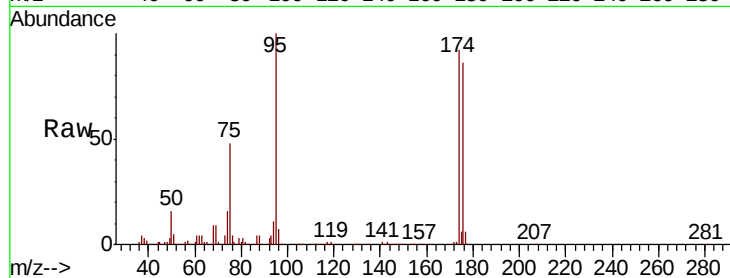
PB112421ZHE#01

Tot Ion: 75 Resp: 171298

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.30 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050923.D

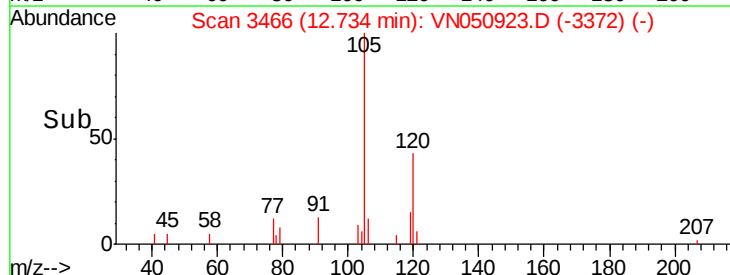
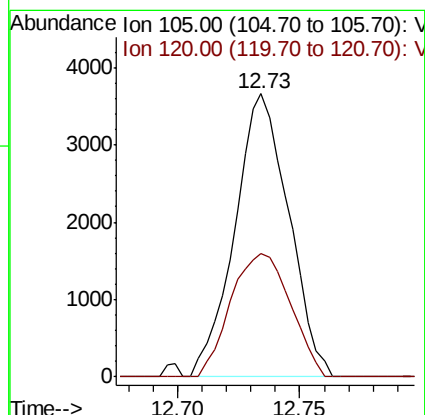
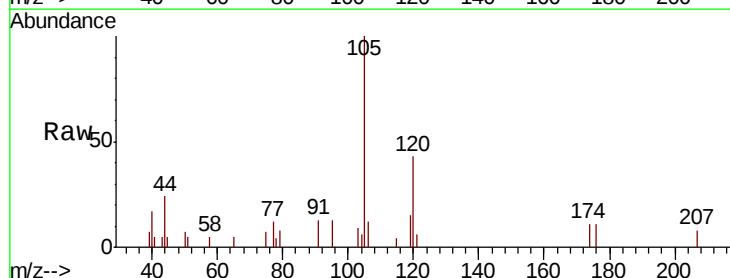
Acq: 28 Aug 2018 19:27

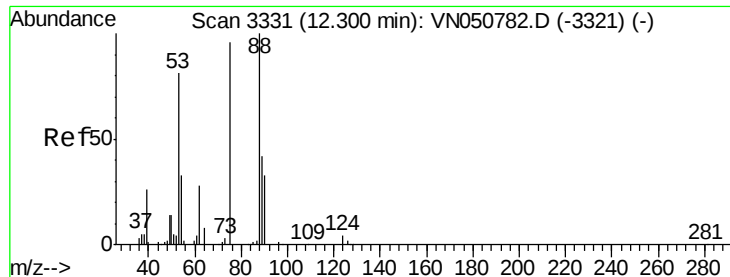
Tgt Ion: 105 Resp: 5605

Ion Ratio Lower Upper

105 100

120 48.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 116.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

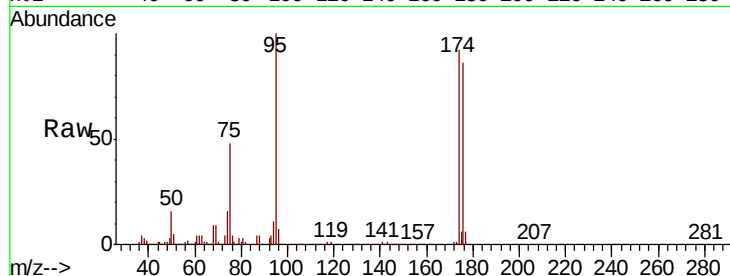
Tot Ion: 75 Resp: 171298

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

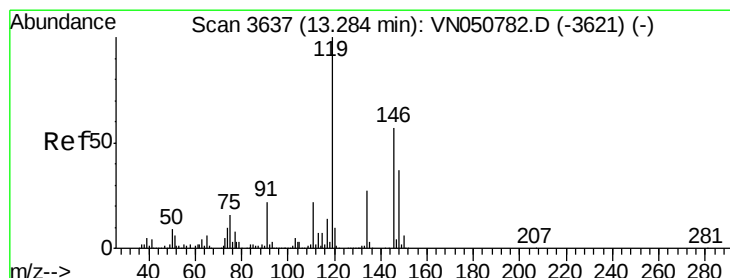
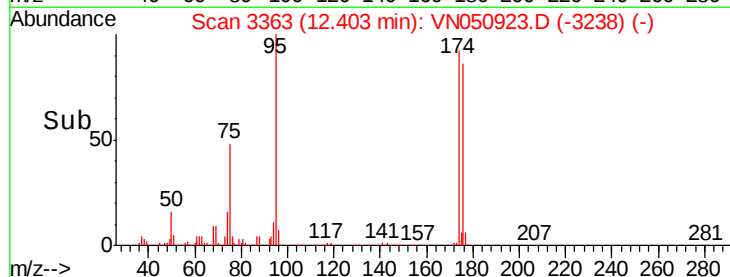
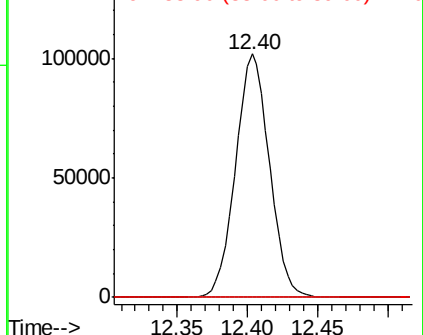
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#87

1,3-Dichlorobenzene

Concen: 0.23 ug/l

RT: 13.28 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

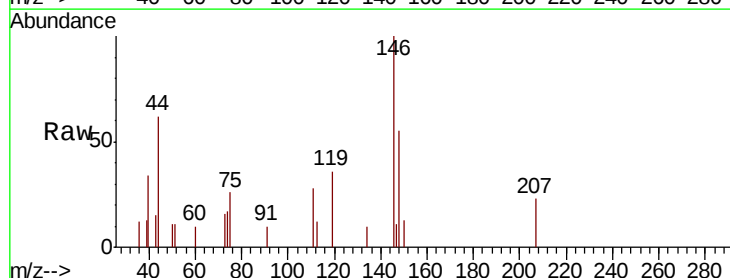
Tgt Ion: 146 Resp: 2518

Ion Ratio Lower Upper

146 100

111 32.6 19.1 57.3

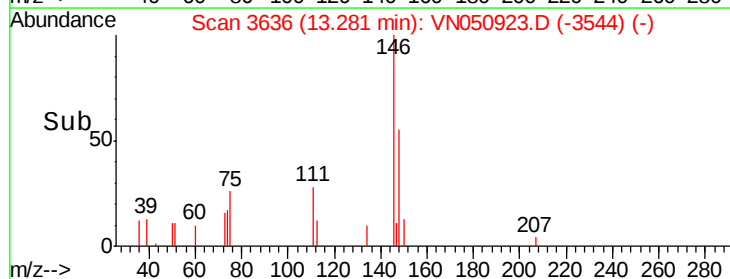
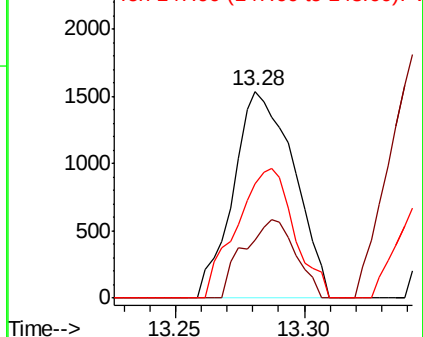
148 59.4 32.2 96.6

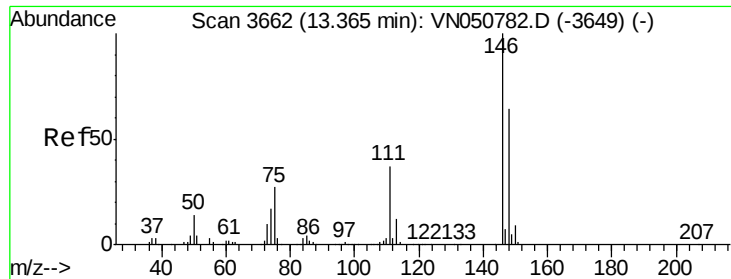


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

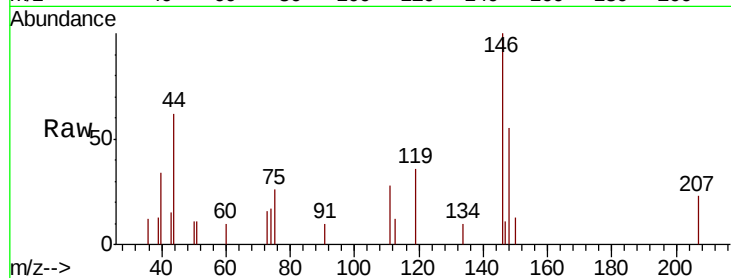




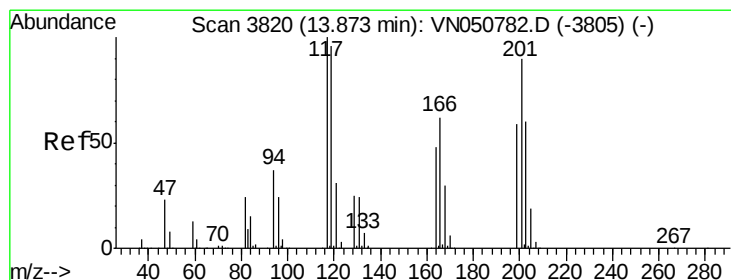
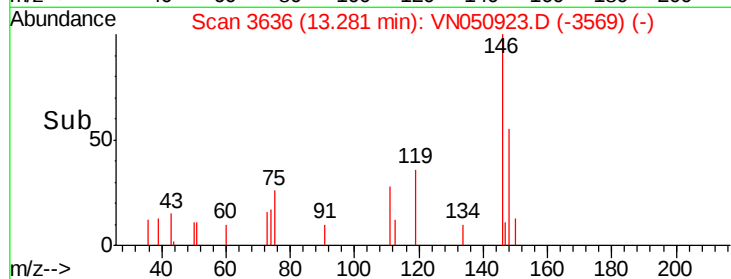
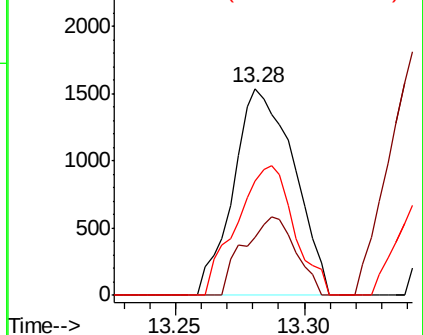
#88
 1,4-Dichlorobenzene
 Concen: 0.24 ug/l
 RT: 13.28 min Scan# 3636
 Delta R.T. -0.08 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

Tot Ion:146 Resp: 2518
 Ion Ratio Lower Upper
 146 100
 111 32.6 18.8 56.3
 148 59.4 32.2 96.6

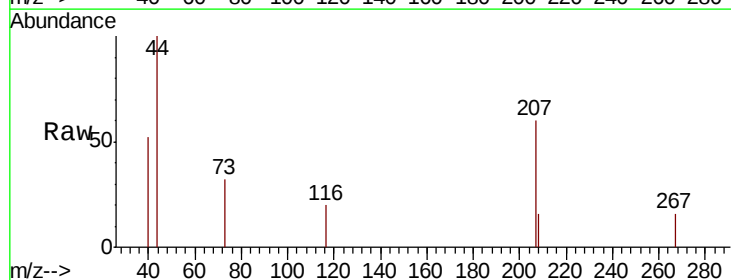


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

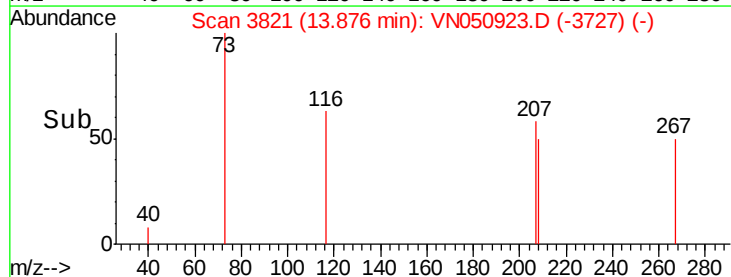
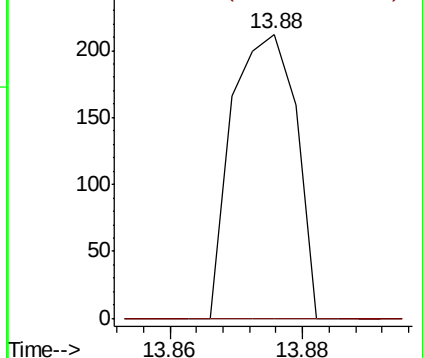


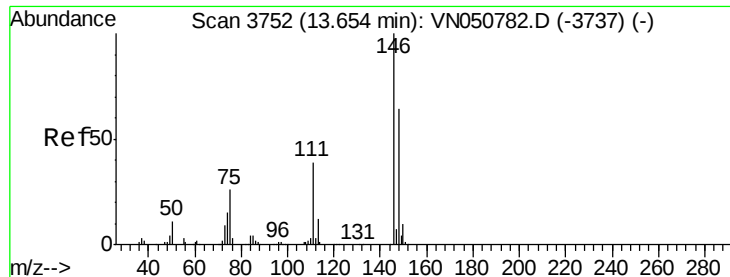
#90
 Hexachloroethane
 Concen: 0.23 ug/l
 RT: 13.88 min Scan# 3821
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Tgt Ion:117 Resp: 142
 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

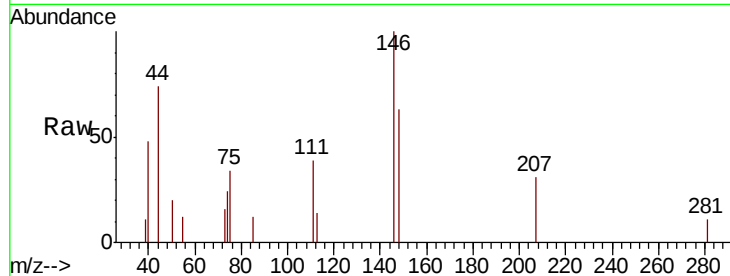




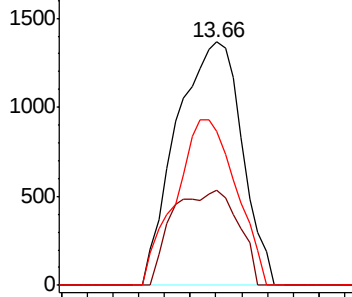
#91
 1,2-Dichlorobenzene
 Concen: 0.23 ug/l
 RT: 13.66 min Scan# 3754
 Delta R.T. 0.01 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

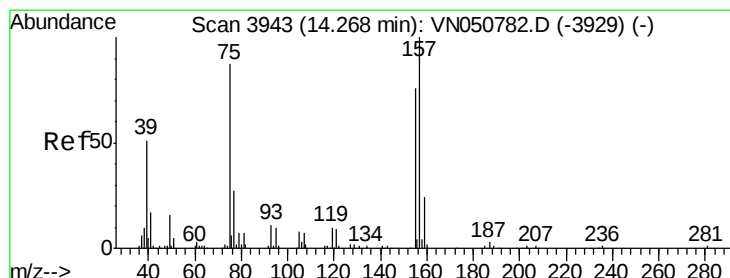
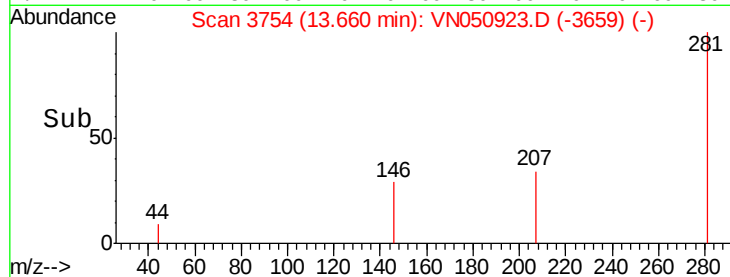
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.3
148	62.9	32.3	96.8



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

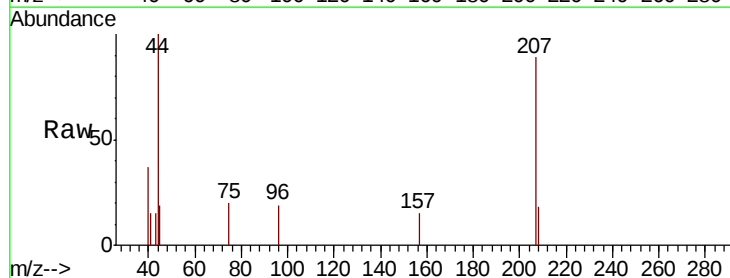


Time--> 13.60 13.65 13.70

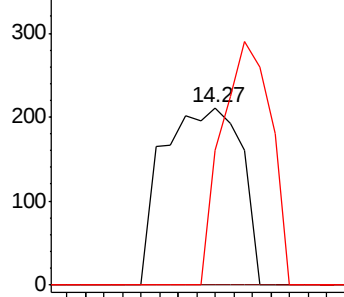


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.29 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

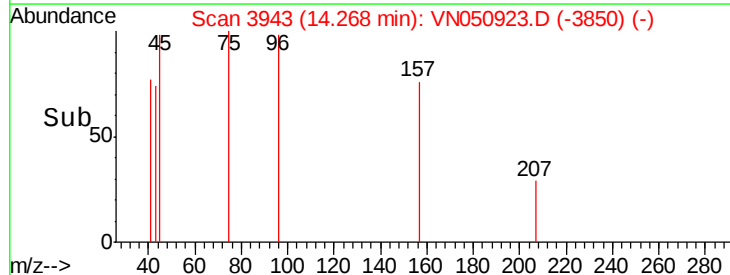
Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	46.4	139.1#
157	86.3	60.7	182.0

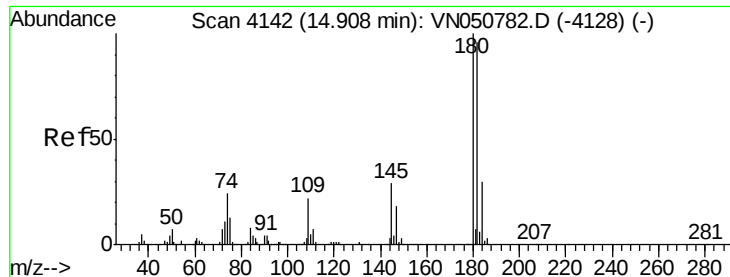


Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



Time--> 14.24 14.26 14.28

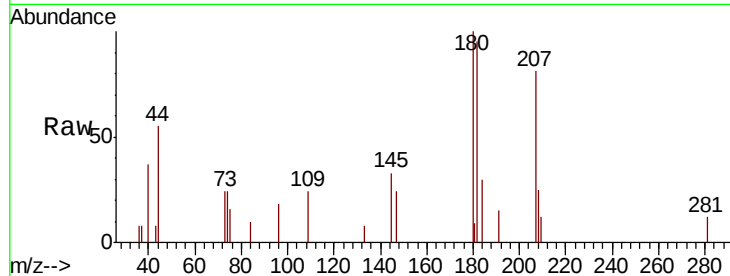




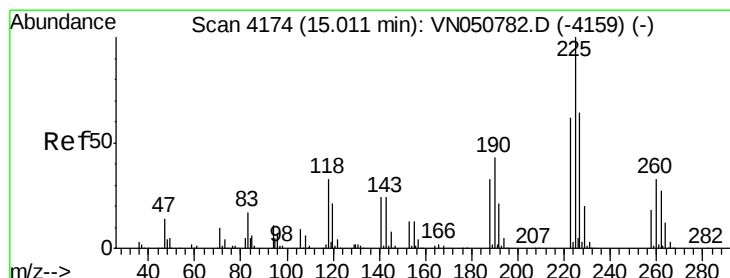
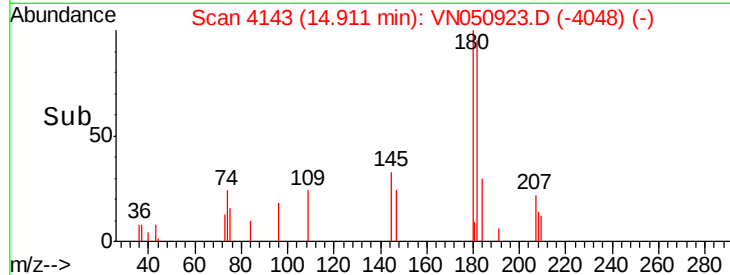
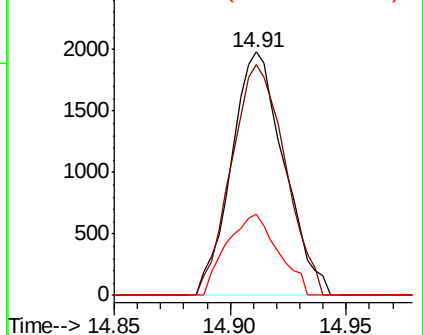
#93
 1,2,4-Trichlorobenzene
 Concen: 4.61 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#01

Tot Ion:180 Resp: 3117
 Ion Ratio Lower Upper
 180 100
 182 97.3 48.2 144.6
 145 32.6 14.1 42.2

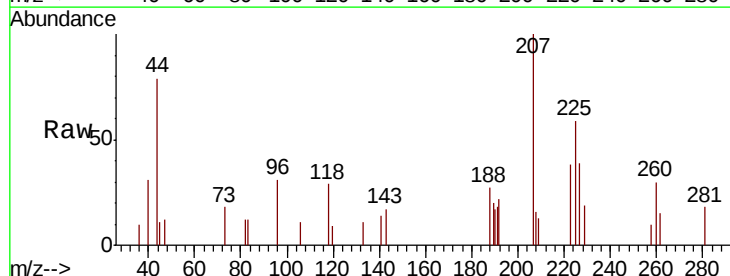


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

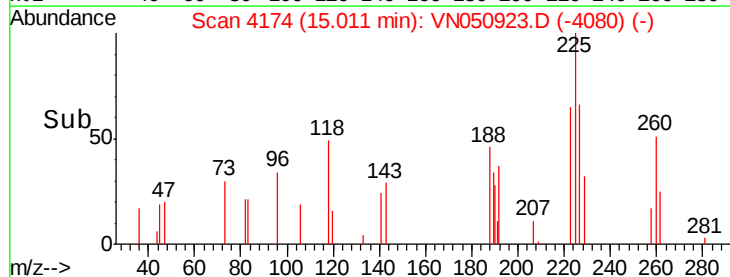
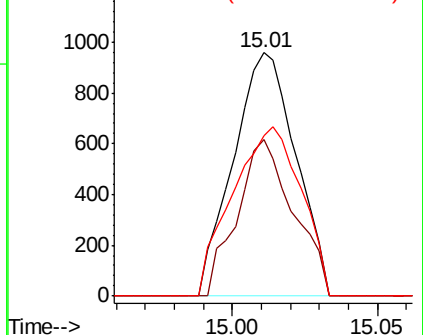


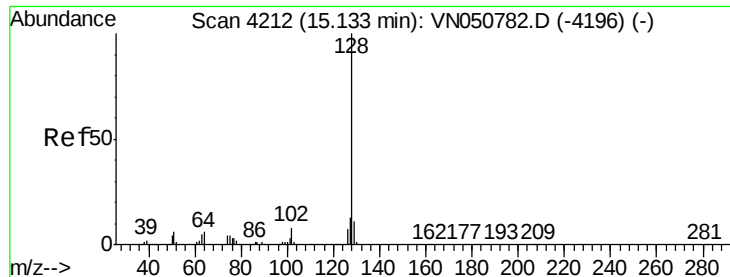
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050923.D
 Acq: 28 Aug 2018 19:27

Tgt Ion:225 Resp: 1437
 Ion Ratio Lower Upper
 225 100
 223 57.7 31.3 93.8
 227 76.4 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: 6.06 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#01

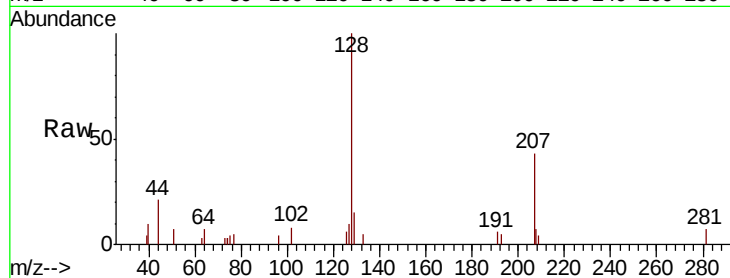
Tot Ion:128 Resp: 8338

Ion Ratio Lower Upper

128 100

127 12.3 10.5 15.7

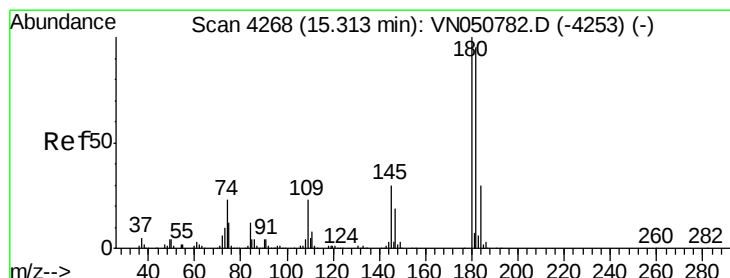
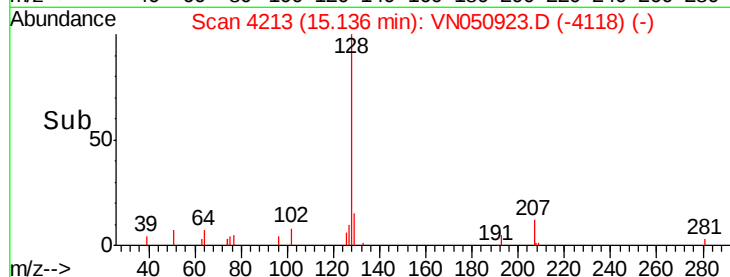
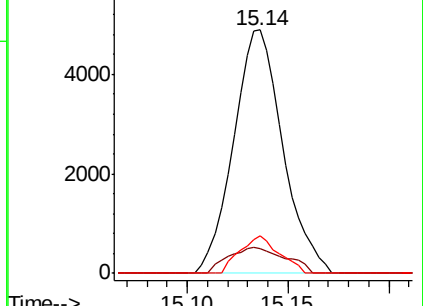
129 12.3 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 3.94 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050923.D

Acq: 28 Aug 2018 19:27

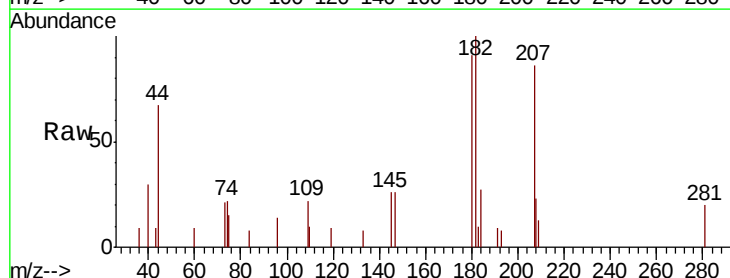
Tgt Ion:180 Resp: 3517

Ion Ratio Lower Upper

180 100

182 97.3 48.0 144.2

145 29.5 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

