

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050062.D
 Acq On : 25 Jul 2018 23:29
 Operator : MD\SY
 Sample : PB111424ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#09

Quant Time: Jul 26 06:58:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	614558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1041973	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	888398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	317753	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	447331	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	7.60	113	402966	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	10.09	98	1411088	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	
62) 4-Bromofluorobenzene	12.40	95	387572	37.63	ug/l	0.00
Spiked Amount			Recovery	=	75.26%	

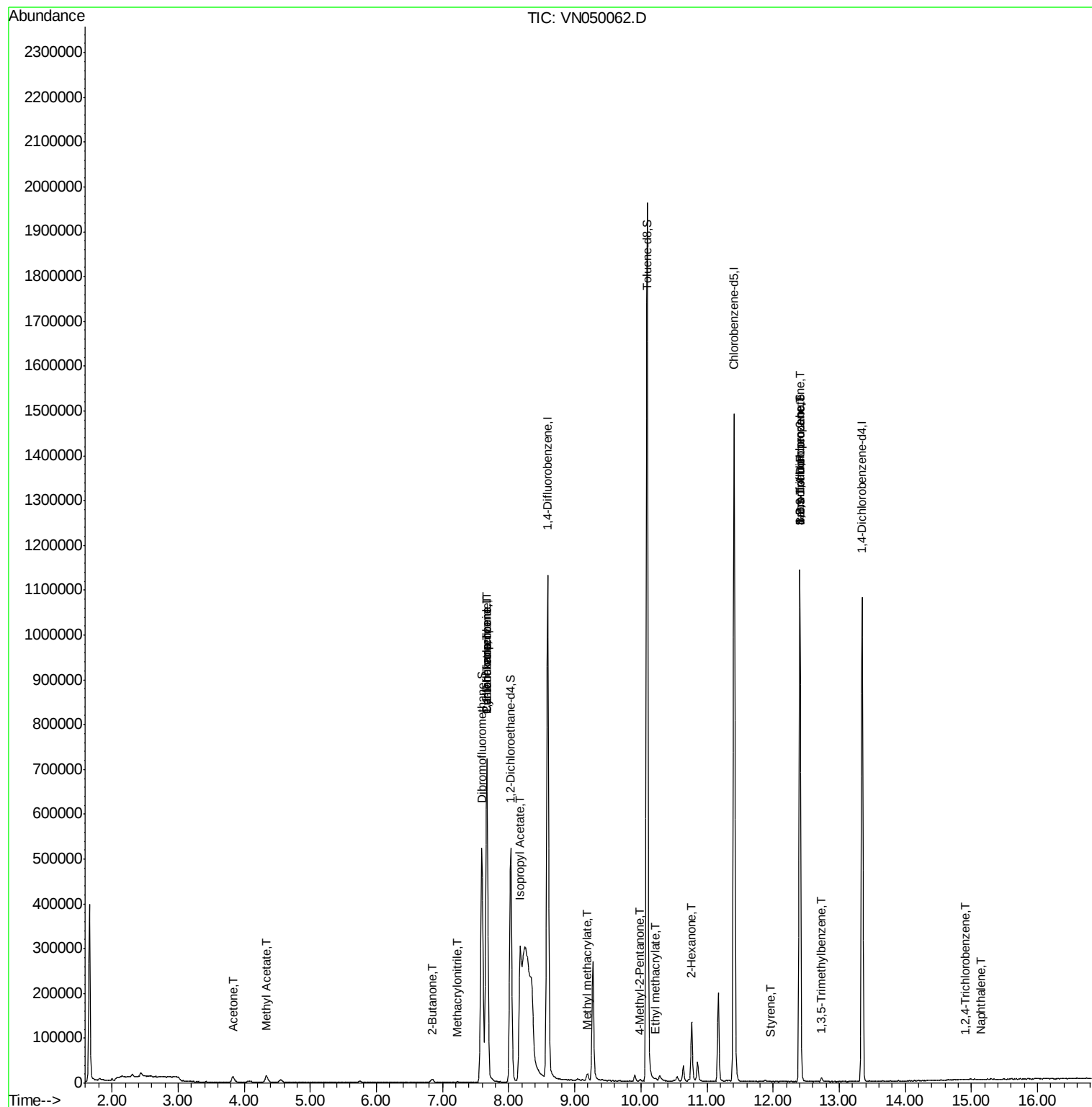
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	105	Below Cal		94
16) Acetone	3.82	43	23402	7.37	ug/l	95
18) Methyl Acetate	4.34	43	28597	2.08	ug/l	99
20) Methylene Chloride	4.55	84	4617	Below Cal	#	91
25) 2-Butanone	6.85	43	5774	1.77	ug/l	95
31) Cyclohexane	7.67	56	12477	0.99	ug/l	# 2
36) 1,1-Dichloropropene	7.67	75	43505	3.71	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	55106	4.42	ug/l	# 16
41) Methacrylonitrile	7.23	41	761	2.92	ug/l	# 23
43) Isopropyl Acetate	8.17	43	367443	23.21	ug/l	# 87
48) Methyl methacrylate	9.18	41	7870	1.12	ug/l	# 25
51) 4-Methyl-2-Pentanone	9.99	43	2420	0.30	ug/l	# 89
56) Ethyl methacrylate	10.23	69	2592	2.25	ug/l	# 87
59) 2-Hexanone	10.77	43	18334	8.21	ug/l	# 57
70) Styrene	11.97	104	255	0.93	ug/l	# 79
71) Bromoform	12.41	173	3842	0.61	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	29	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	189188	32.04	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	3986	0.21	ug/l	# 97
81) trans-1,4-Dichloro-2-buten	12.40	75	189188	101.62	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	177	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	99	3.10	ug/l	# 64
95) Naphthalene	15.13	128	385	4.44	ug/l	# 69

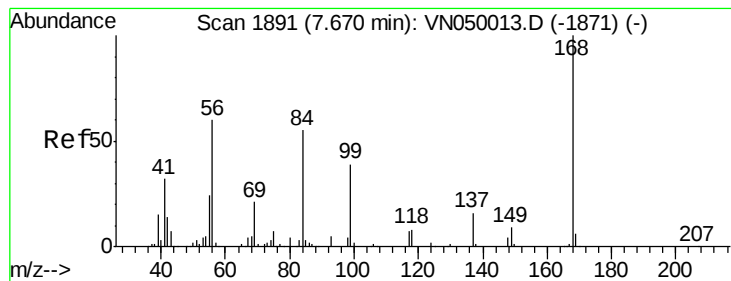
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050062.D
Acq On : 25 Jul 2018 23:29
Operator : MD\SY
Sample : PB111424ZHE#09
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

Quant Time: Jul 26 06:58:40 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 24 06:27:04 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: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

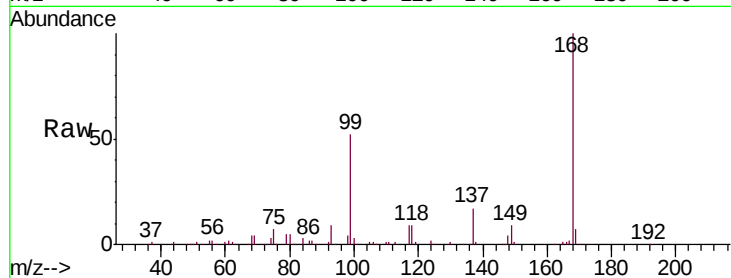
PB111424ZHE#09

Tot Ion:168 Resp: 614558

Ion Ratio Lower Upper

168 100

99 52.0 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050013.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050013.D (-1871) (-)

7.67

250000

200000

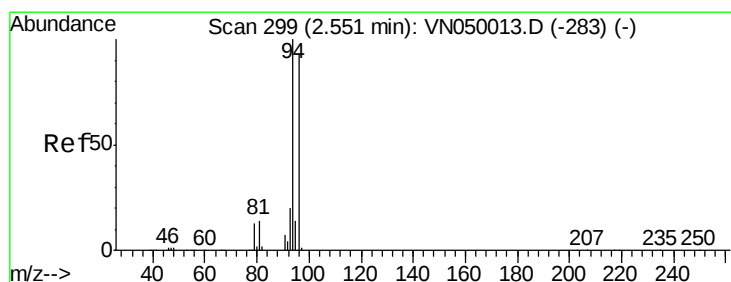
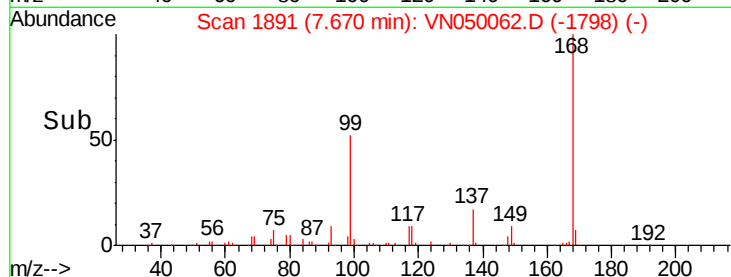
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 292

Delta R.T. -0.02 min

Lab File: VN050062.D

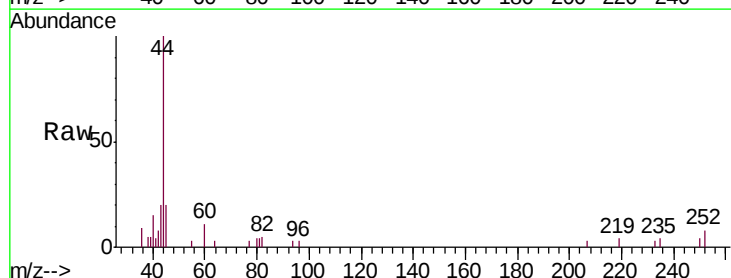
Acq: 25 Jul 2018 23:29

Tgt Ion: 94 Resp: 105

Ion Ratio Lower Upper

94 100

96 87.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050013.D (-283) (-)

Ion 95.90 (95.60 to 96.60): VN050013.D (-283) (-)

2.53

200

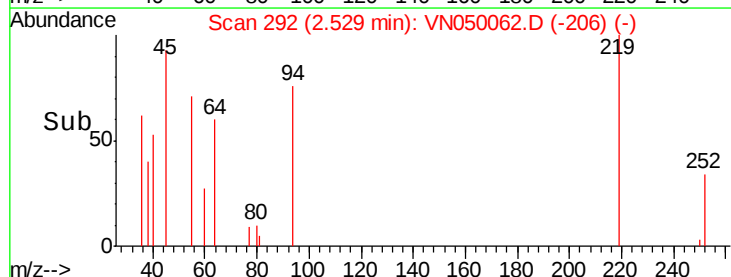
150

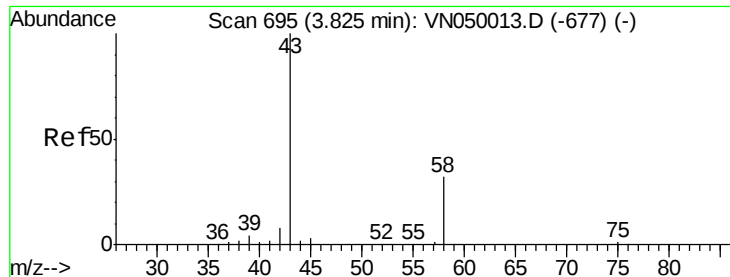
100

50

0

Time-->





#16

Acetone

Concen: 7.37 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

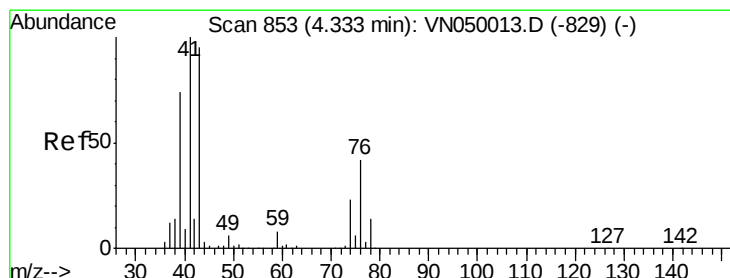
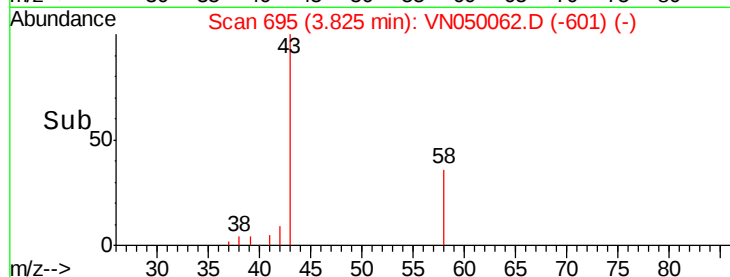
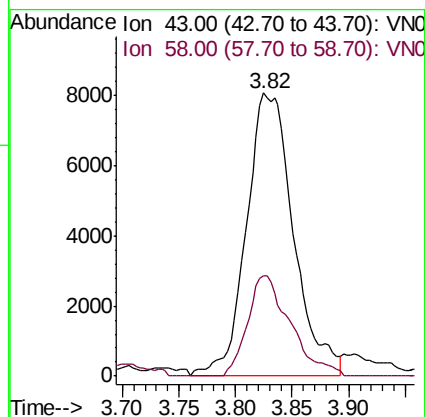
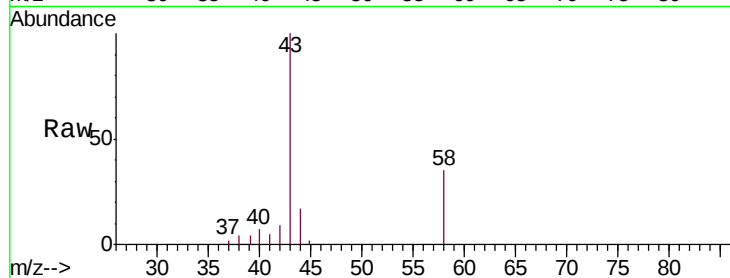
PB111424ZHE#09

Tot Ion: 43 Resp: 23402

Ion Ratio Lower Upper

43 100

58 35.4 25.8 38.8



#18

Methyl Acetate

Concen: 2.08 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050062.D

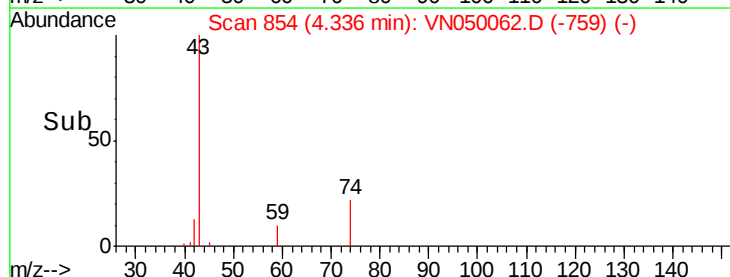
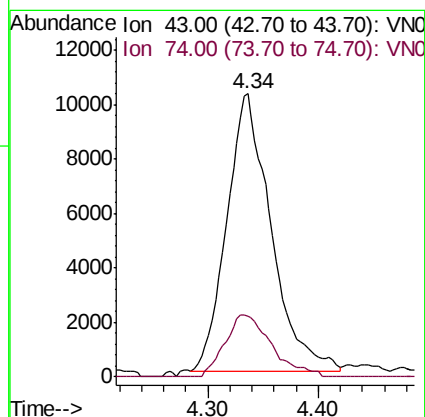
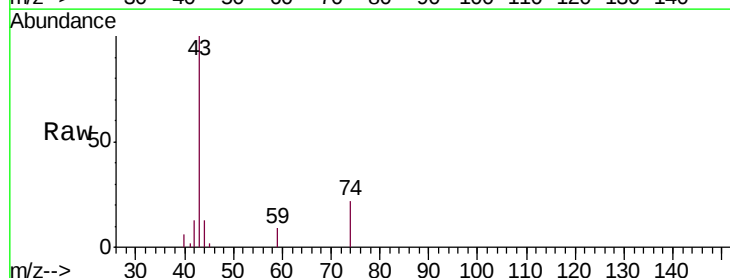
Acq: 25 Jul 2018 23:29

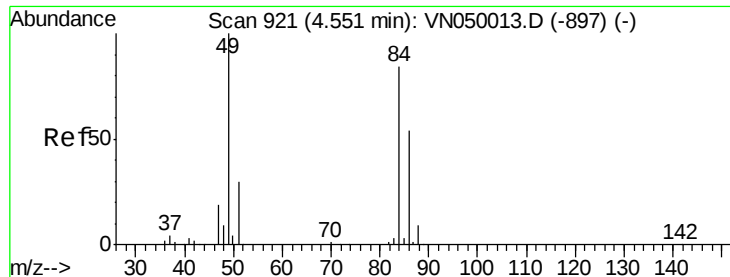
Tgt Ion: 43 Resp: 28597

Ion Ratio Lower Upper

43 100

74 23.4 19.2 28.8

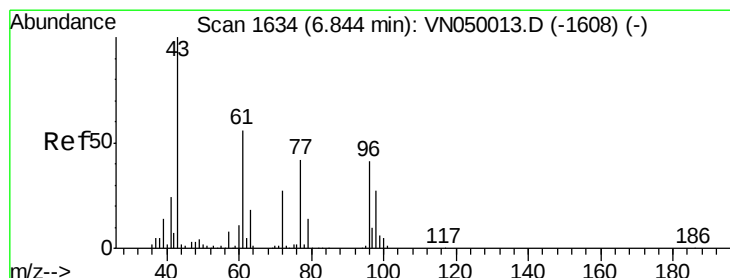
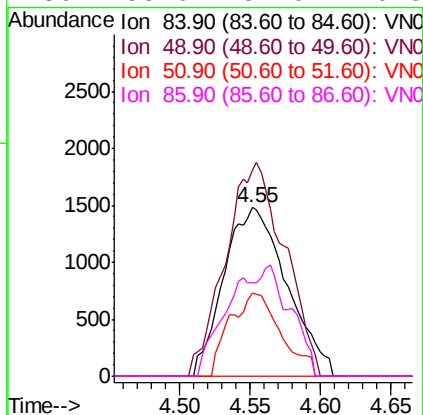
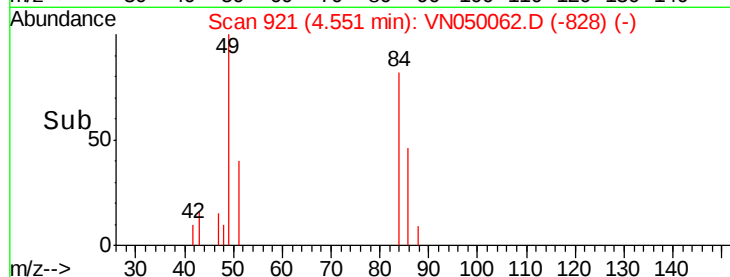
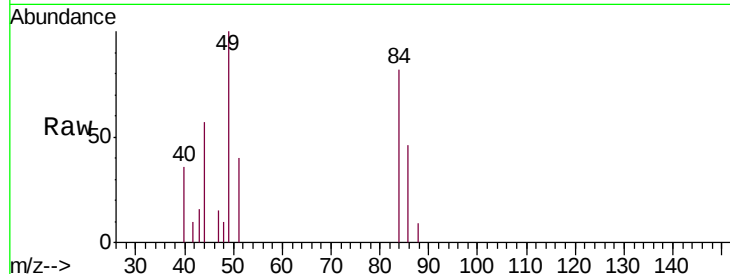




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

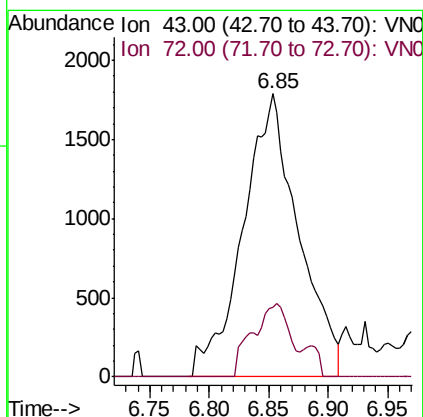
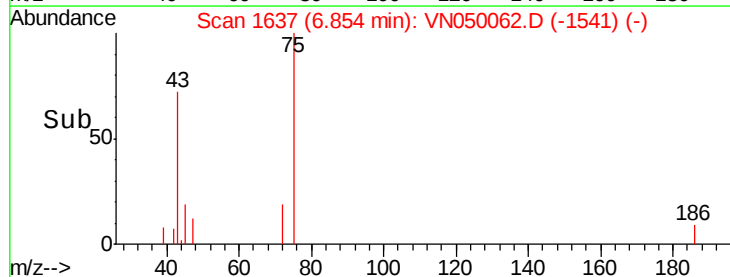
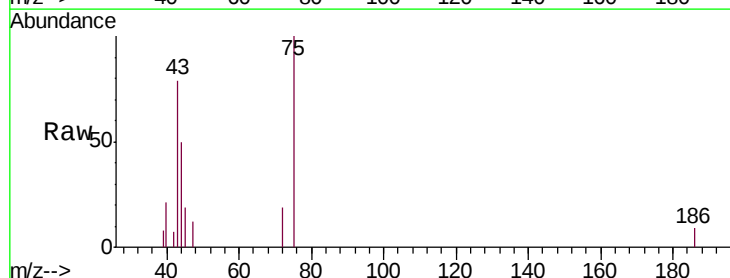
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

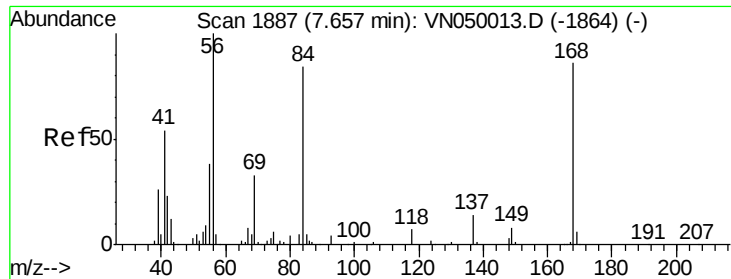
Tot Ion: 84 Resp: 4617
Ion Ratio Lower Upper
84 100
49 122.1 94.8 142.2
51 49.2 28.3 42.5#
86 55.6 51.0 76.6



#25
2-Butanone
Concen: 1.77 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Tgt Ion: 43 Resp: 5774
Ion Ratio Lower Upper
43 100
72 24.4 21.5 32.3

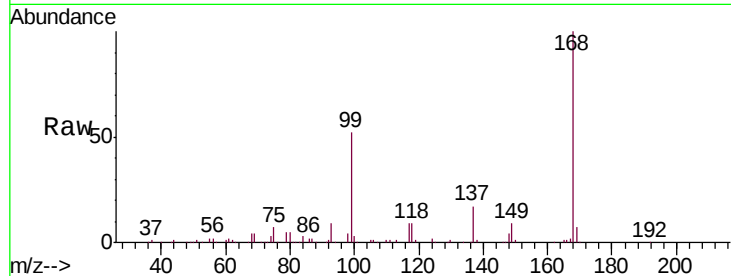




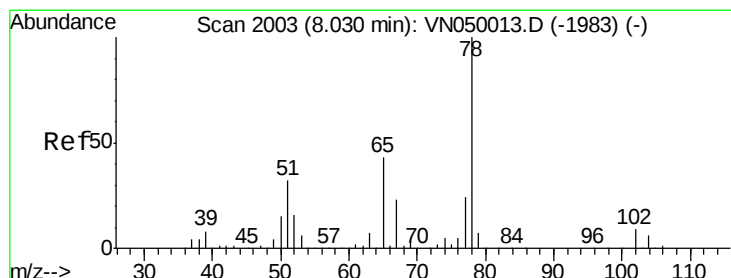
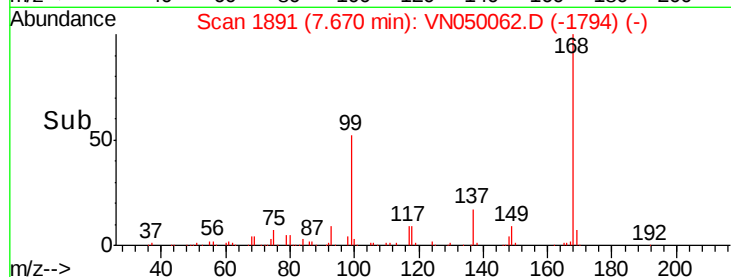
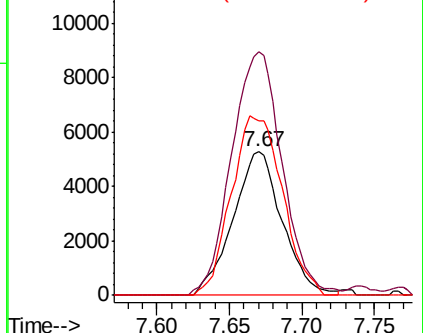
#31
Cyclohexane
Concen: 0.99 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

Tot Ion: 56 Resp: 12477
Ion Ratio Lower Upper
56 100
69 169.8 26.2 39.4#
84 122.1 67.4 101.0#

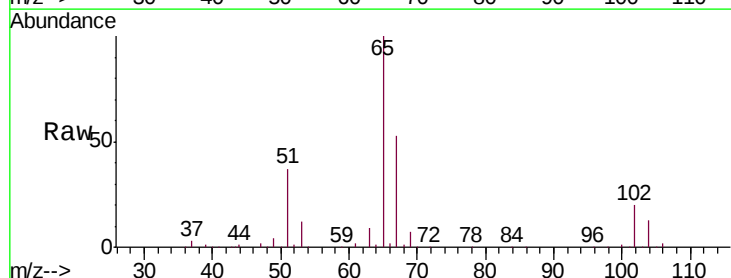


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

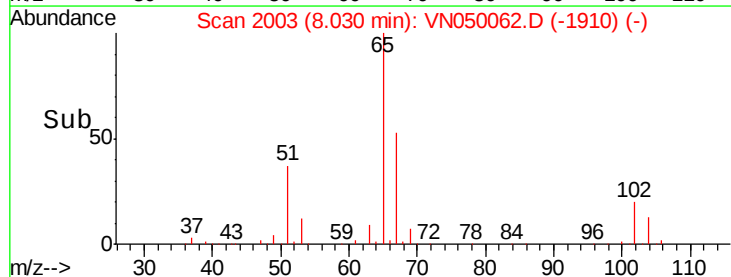
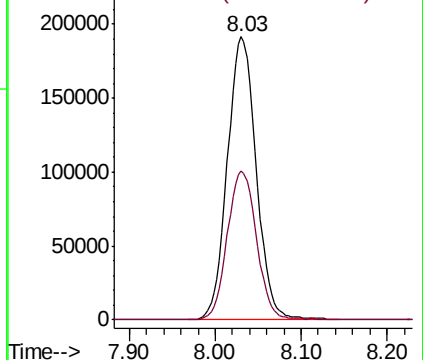


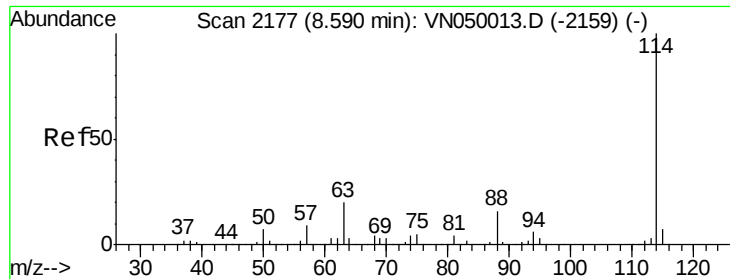
#33
1,2-Dichloroethane-d4
Concen: 52.17 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Tgt Ion: 65 Resp: 447331
Ion Ratio Lower Upper
65 100
67 53.3 0.0 108.4



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

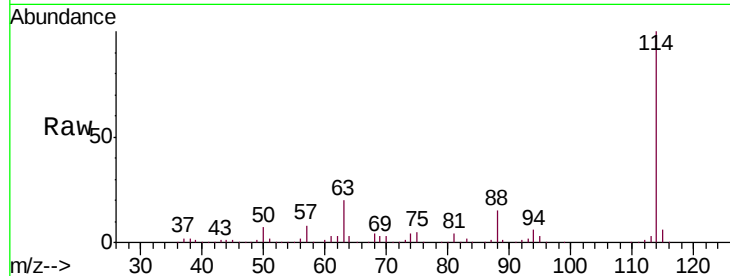




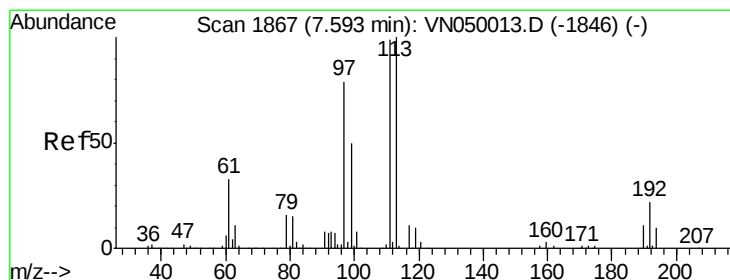
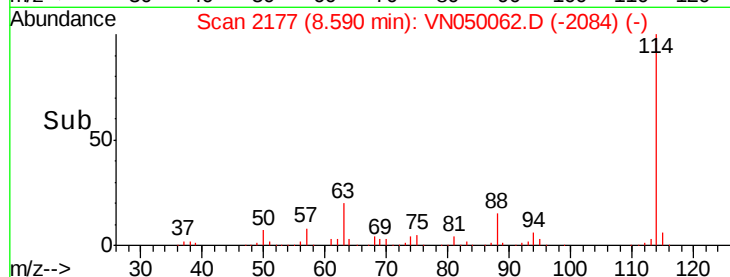
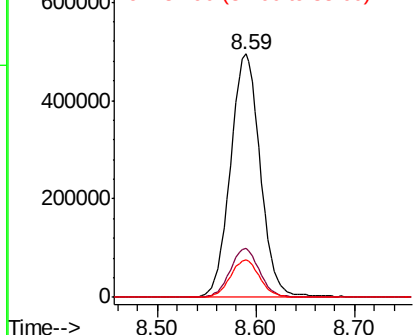
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#09

Tot Ion:114 Resp: 1041973
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.3 0.0 31.2

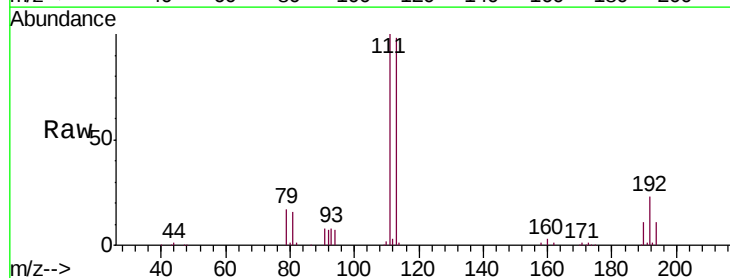


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

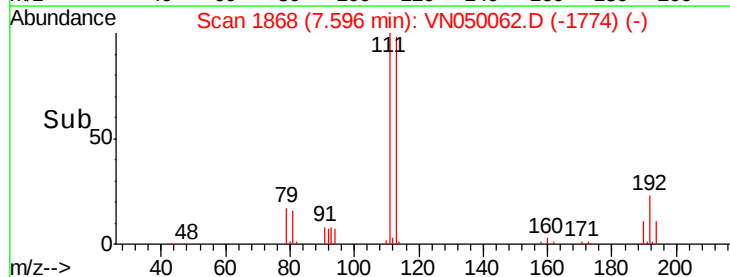
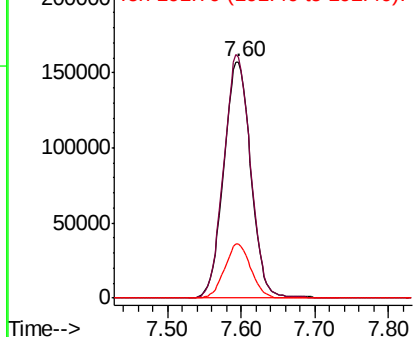


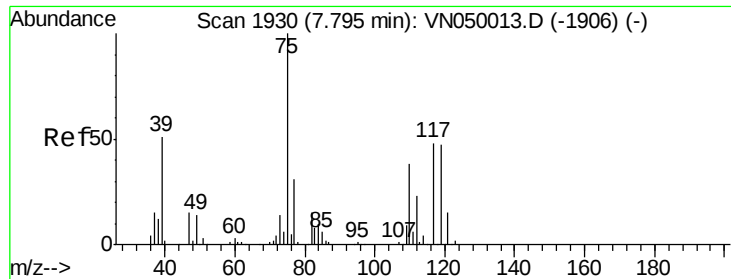
#35
 Dibromofluoromethane
 Concen: 47.37 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

Tgt Ion:113 Resp: 402966
 Ion Ratio Lower Upper
 113 100
 111 101.0 80.7 121.1
 192 22.2 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

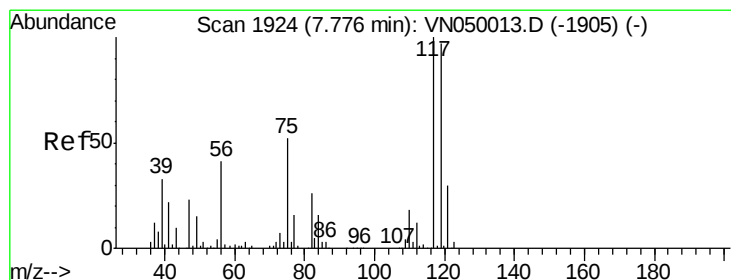
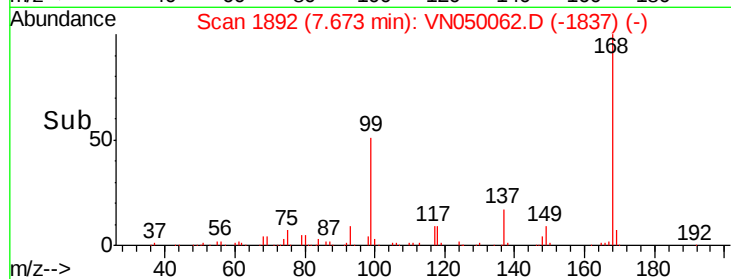
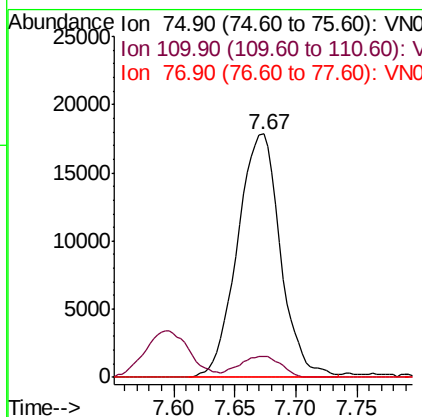
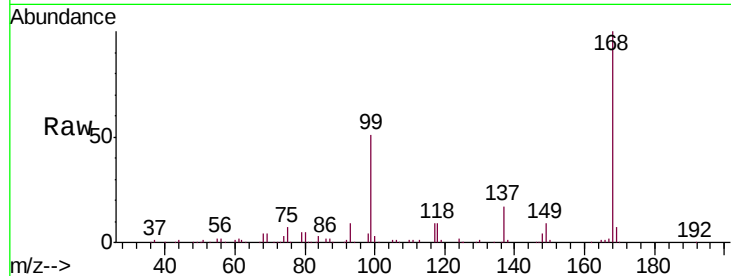




#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 7.67 min Scan# 1892
 Delta R.T. -0.12 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

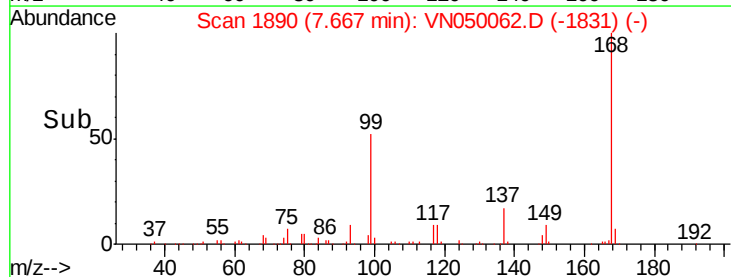
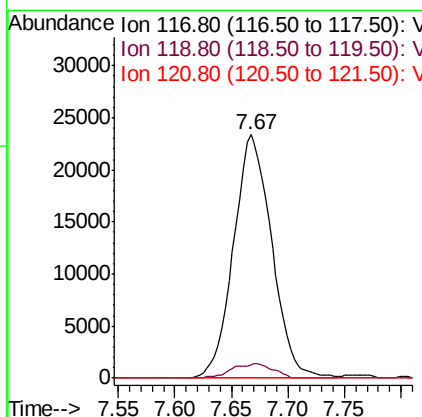
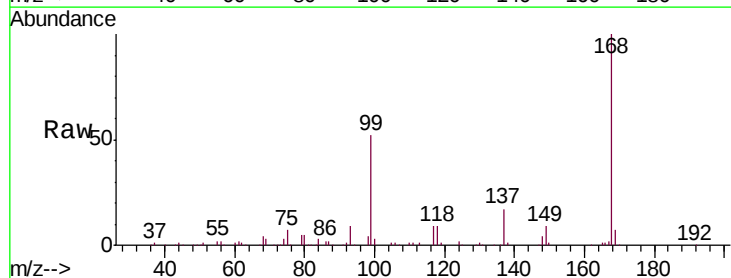
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#09

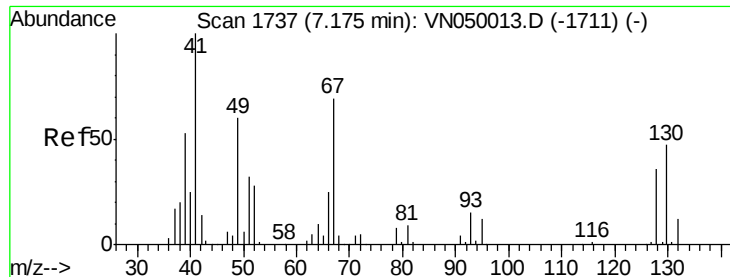
Tot Ion	75	Resp	43505
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.42 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

Tgt Ion	117	Resp	55106
Ion Ratio	100	Lower	Upper
117	100		
119	5.7	77.4	116.0#
121	0.0	23.9	35.9#

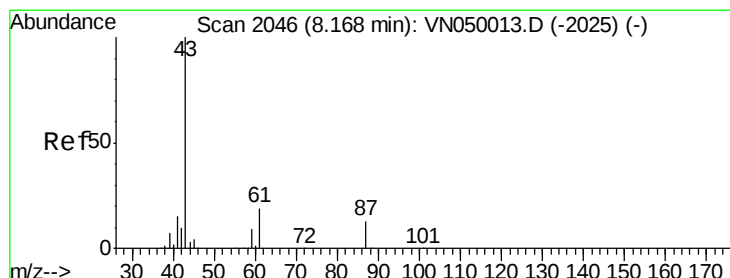
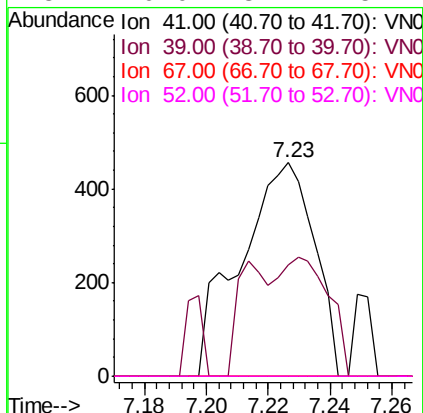
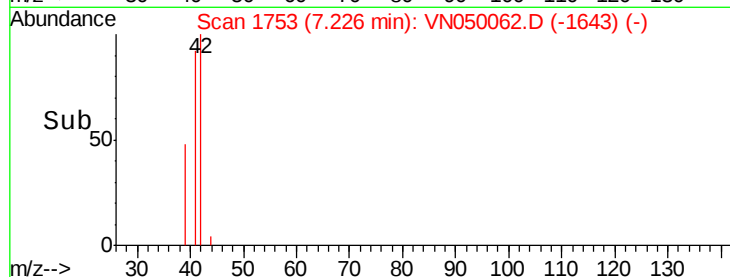
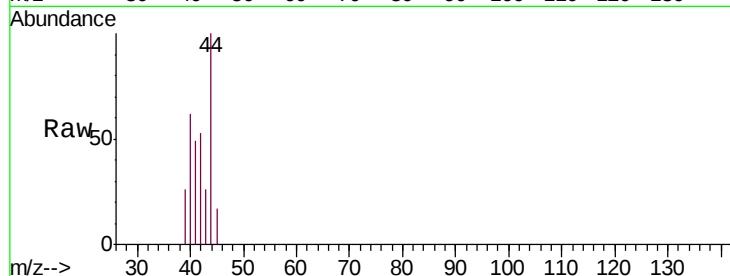




#41
Methacrylonitrile
Concen: 2.92 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.05 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

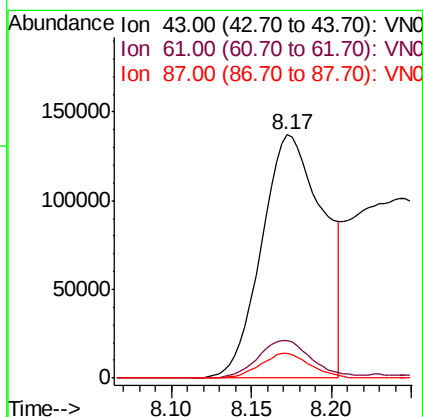
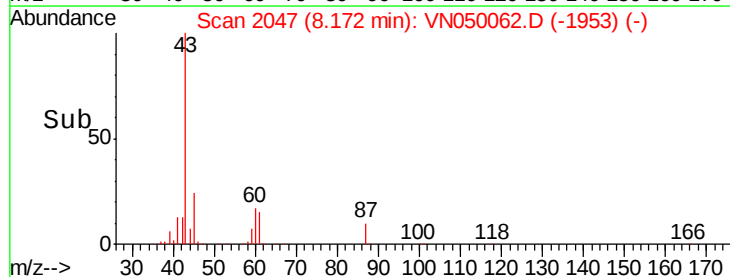
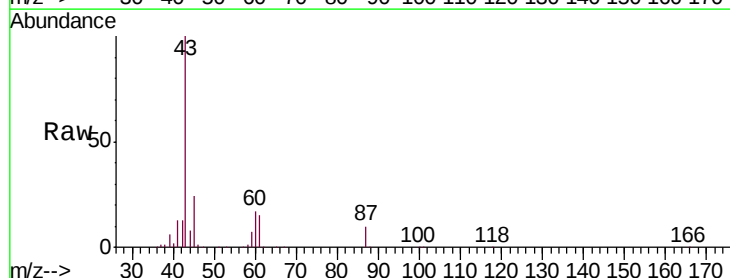
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

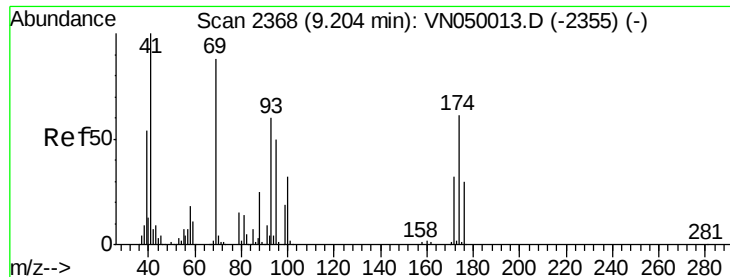
Tot Ion: 41 Resp: 761
Ion Ratio Lower Upper
41 100
39 32.3 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 23.21 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Tgt Ion: 43 Resp: 367443
Ion Ratio Lower Upper
43 100
61 13.6 15.8 23.6#
87 8.3 10.3 15.5#





#48

Methyl methacrylate

Concen: 1.12 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#09

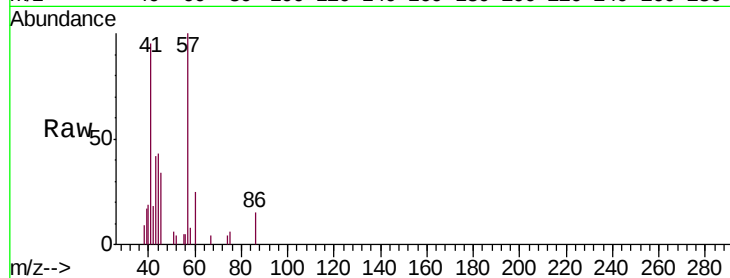
Tot Ion: 41 Resp: 7870

Ion Ratio Lower Upper

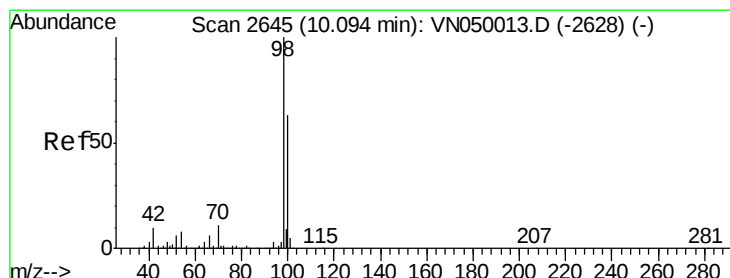
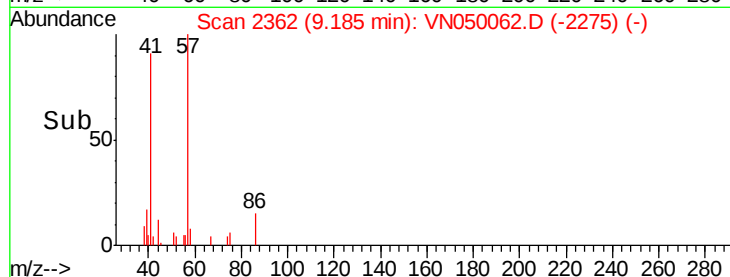
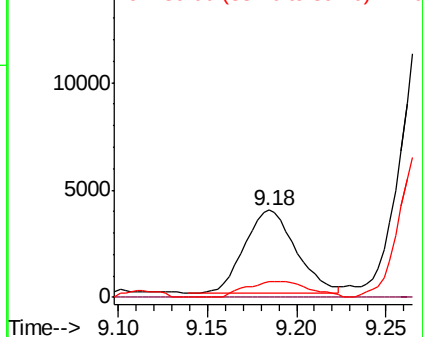
41 100

69 0.0 70.6 105.8#

39 23.3 43.9 65.9#



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



#50

Toluene-d8

Concen: 45.12 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050062.D

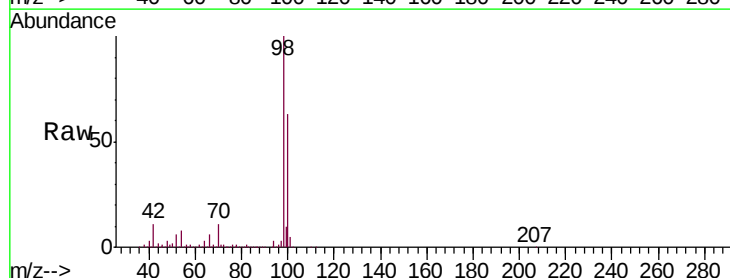
Acq: 25 Jul 2018 23:29

Tgt Ion: 98 Resp: 1411088

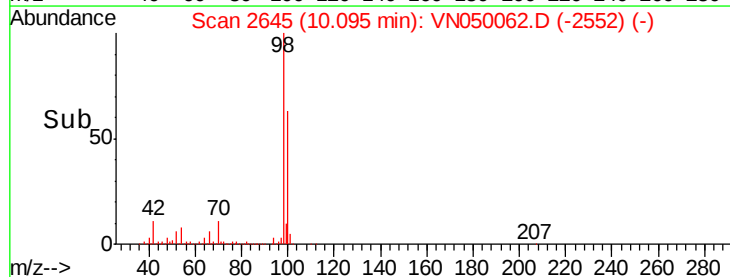
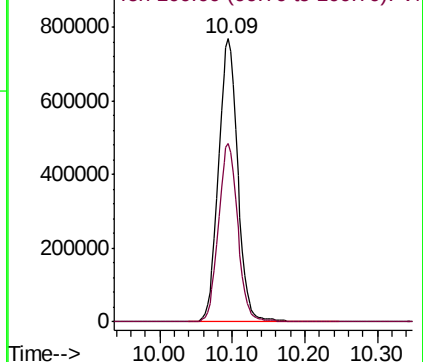
Ion Ratio Lower Upper

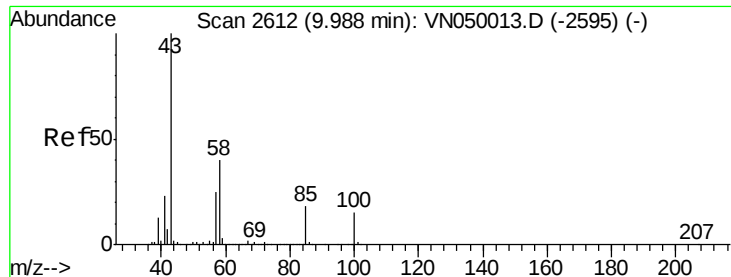
98 100

100 63.2 50.7 76.1



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

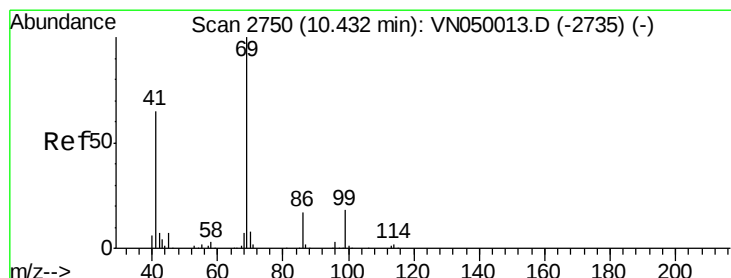
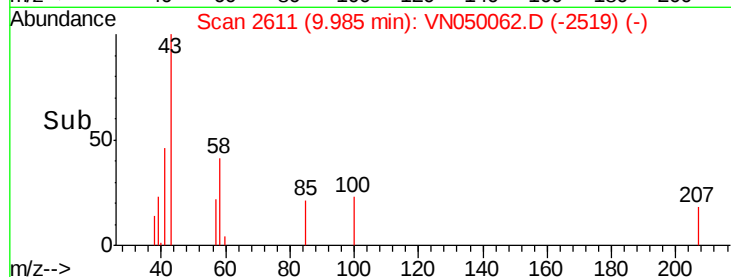
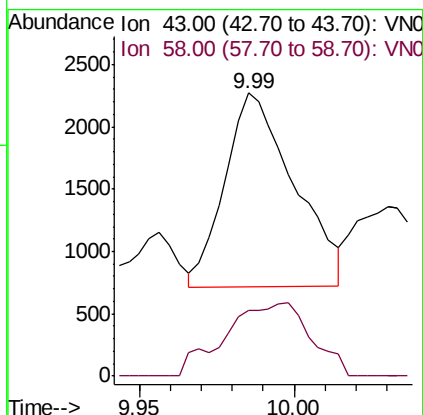
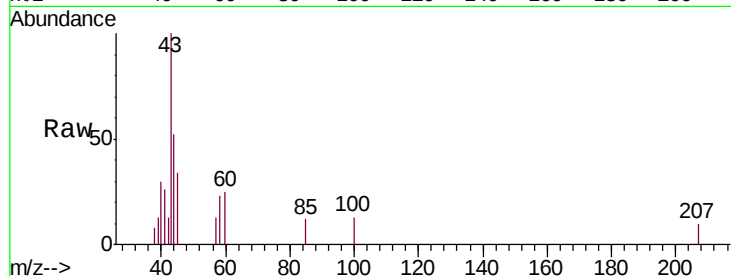




#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

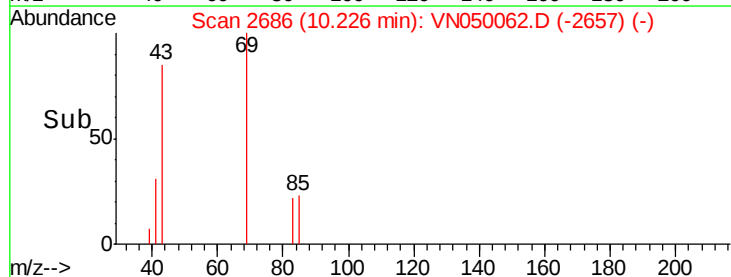
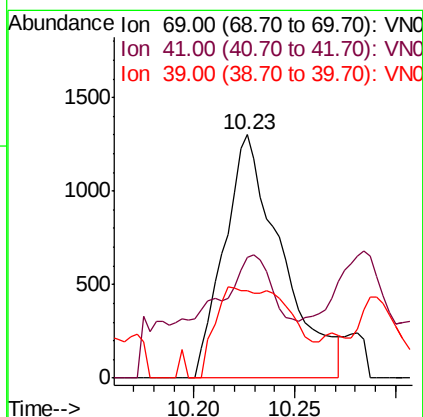
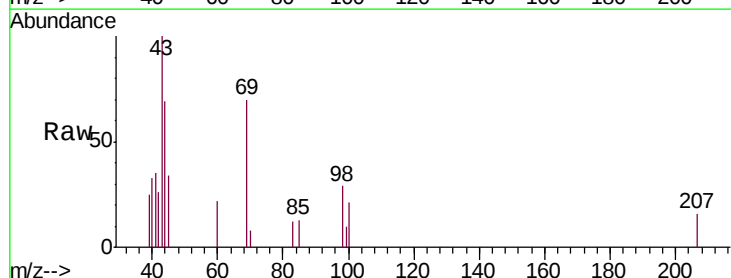
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

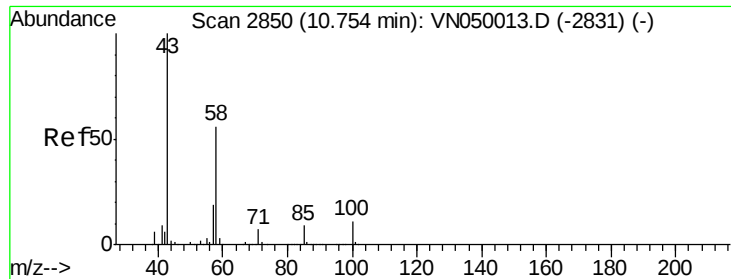
Tot Ion: 43 Resp: 2420
Ion Ratio Lower Upper
43 100
58 46.5 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.25 ug/l
RT: 10.23 min Scan# 2686
Delta R.T. -0.21 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Tgt Ion: 69 Resp: 2592
Ion Ratio Lower Upper
69 100
41 55.1 51.0 76.4
39 24.2 26.6 40.0#





#59

2-Hexanone

Concen: 8.21 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

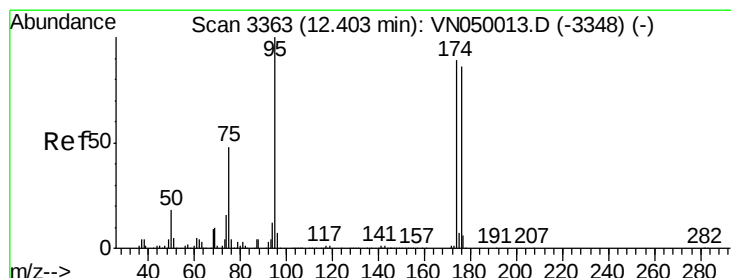
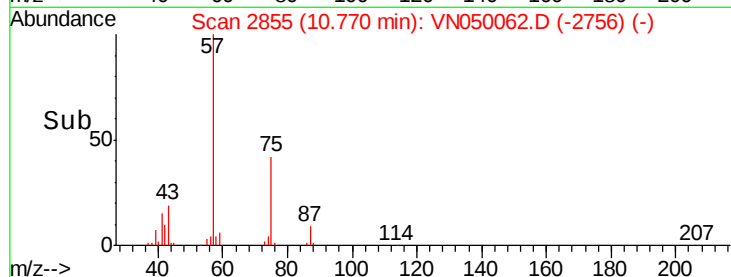
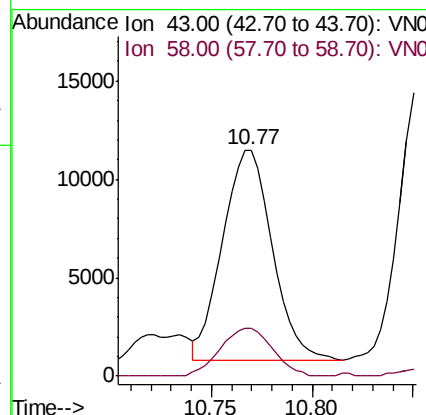
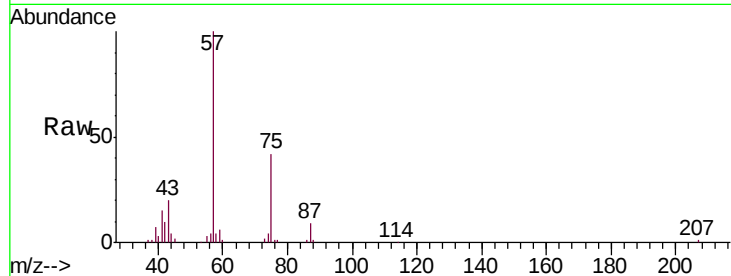
PB111424ZHE#09

Tot Ion: 43 Resp: 18334

Ion Ratio Lower Upper

43 100

58 24.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

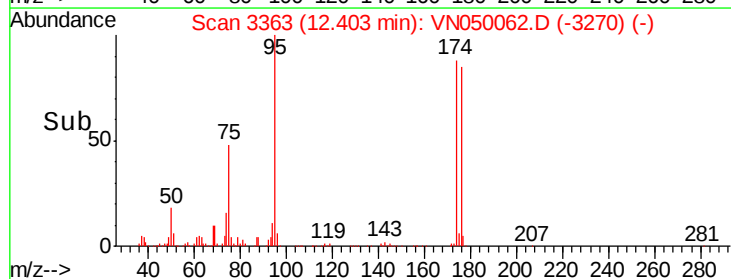
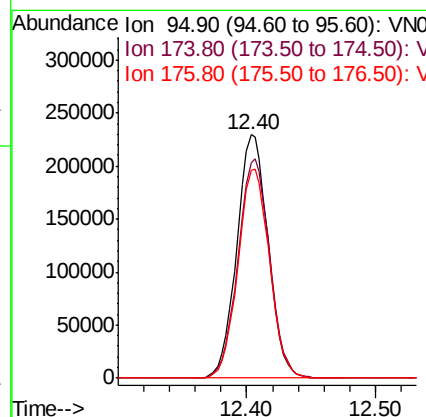
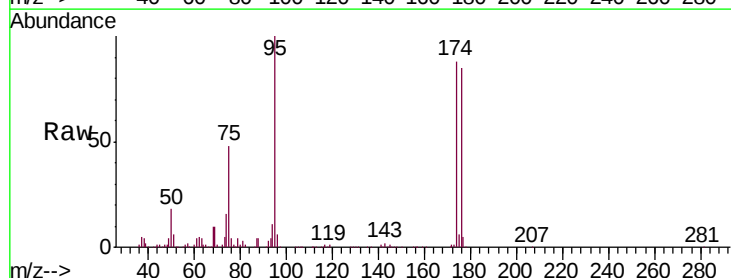
Tgt Ion: 95 Resp: 387572

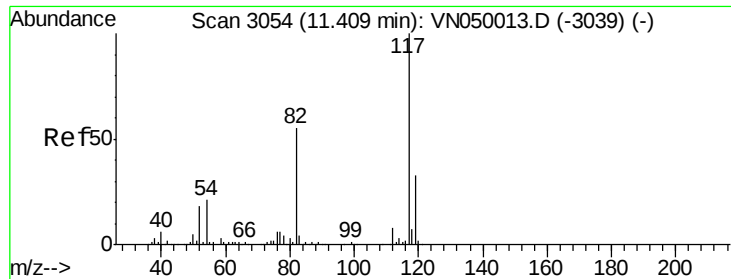
Ion Ratio Lower Upper

95 100

174 90.9 0.0 178.2

176 86.2 0.0 173.4

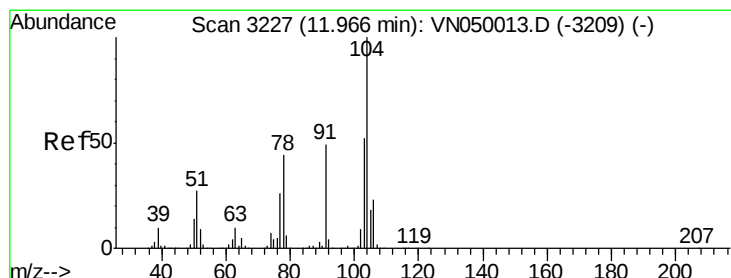
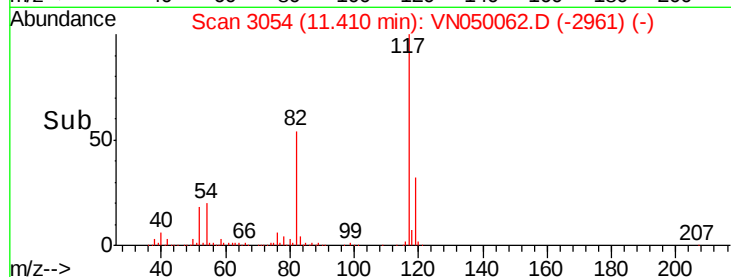
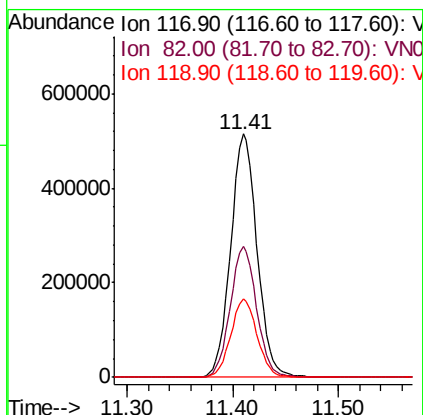
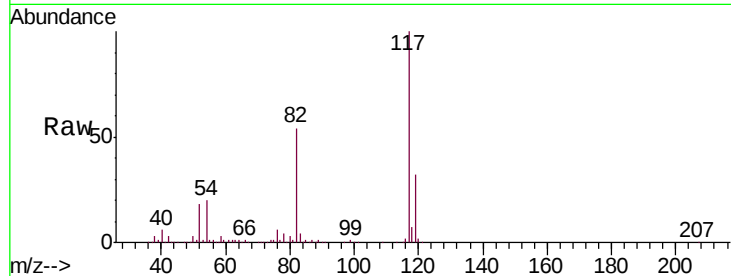




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

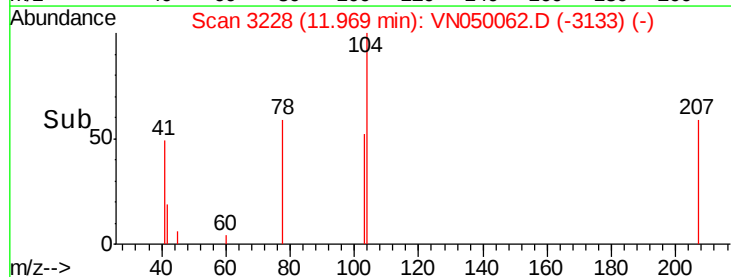
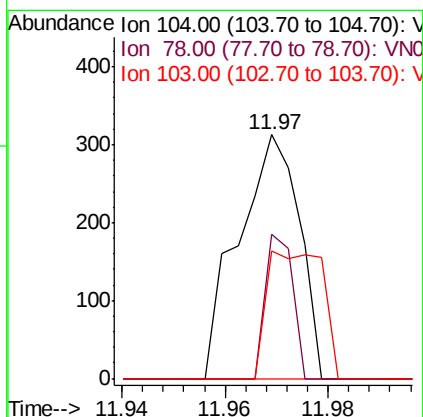
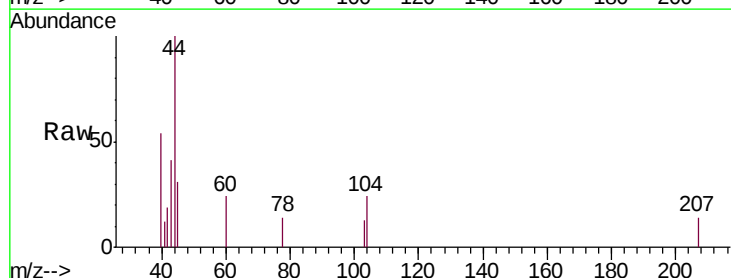
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

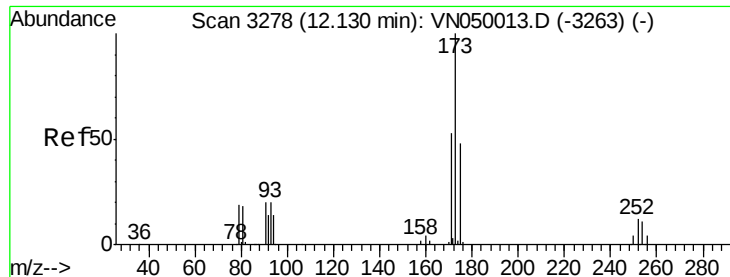
Tot Ion:117 Resp: 888398
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 32.0 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Tgt Ion:104 Resp: 255
Ion Ratio Lower Upper
104 100
78 26.7 39.3 58.9#
103 47.8 45.0 67.6





#71

Bromoform

Concen: 0.61 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#09

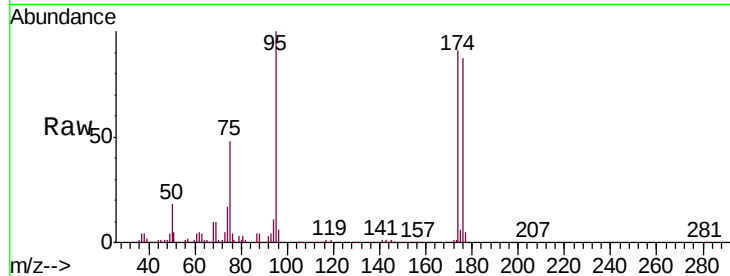
Tot Ion:173 Resp: 3842

Ion Ratio Lower Upper

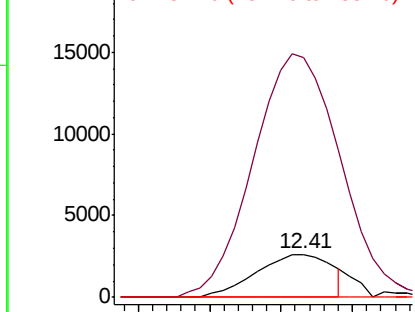
173 100

175 575.1 24.1 72.2#

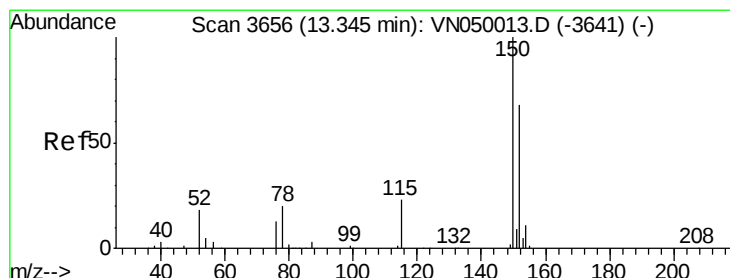
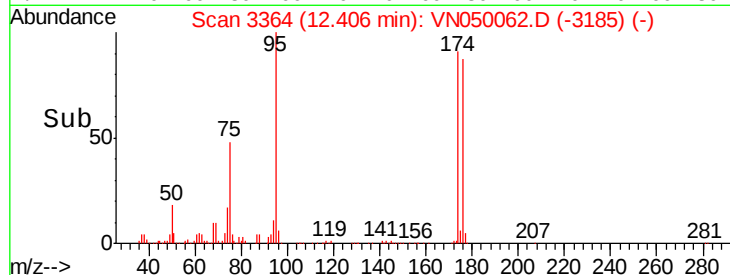
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
20000 Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

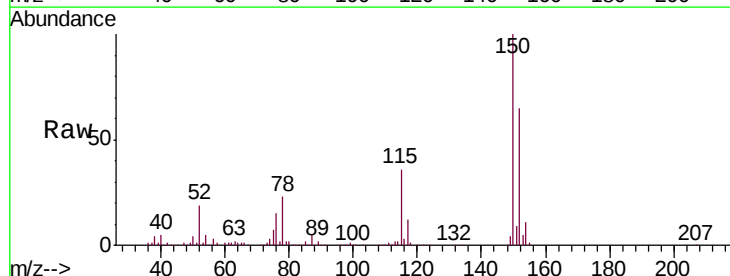
Tgt Ion:152 Resp: 317753

Ion Ratio Lower Upper

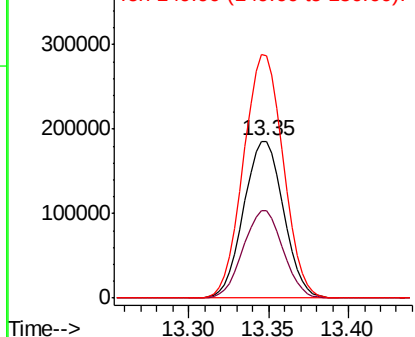
152 100

115 55.6 27.8 83.3

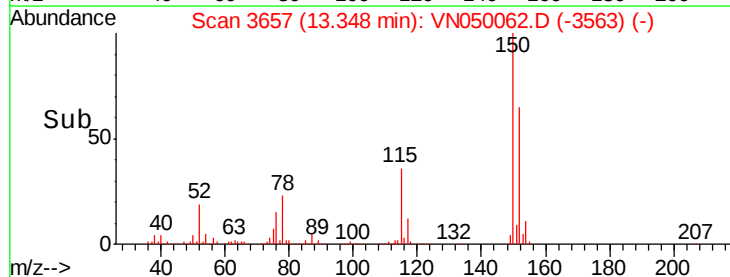
150 154.7 0.0 348.6

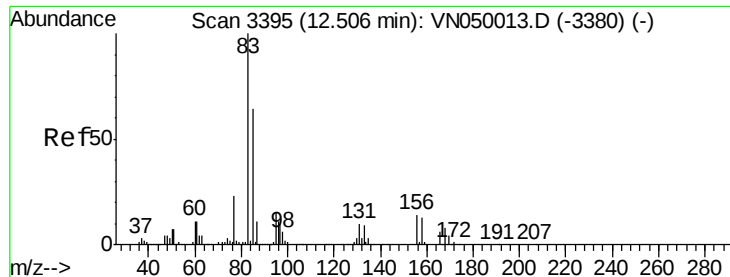


Abundance Ion 151.90 (151.60 to 152.60): V
400000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#09

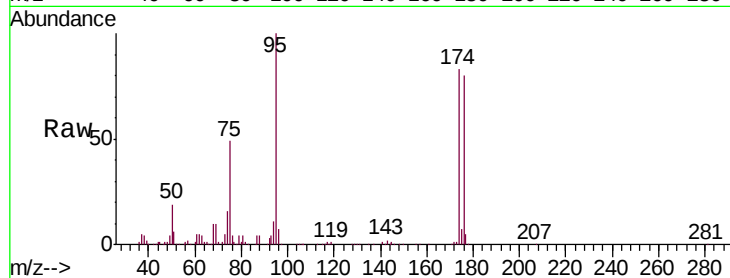
Tot Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 1275.9 5.1 15.3#

85 0.0 32.3 96.8#

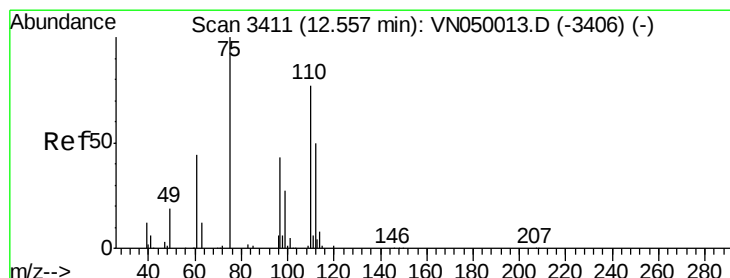
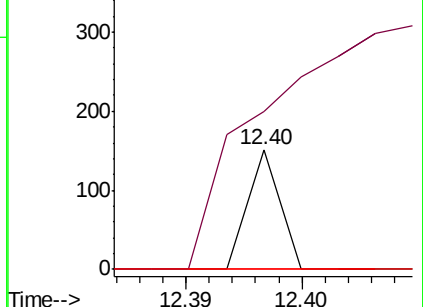
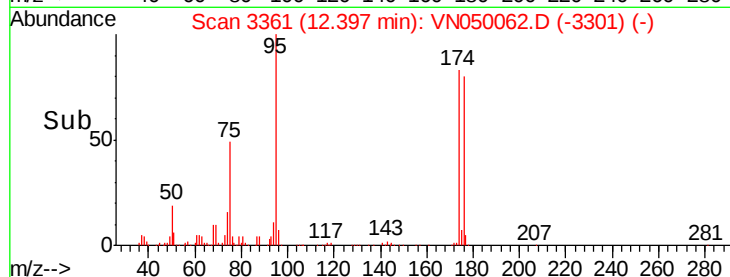


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

Time-->



#76

1,2,3-Trichloropropane

Concen: 32.04 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050062.D

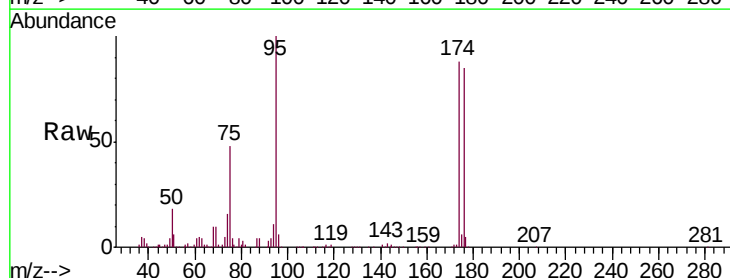
Acq: 25 Jul 2018 23:29

Tgt Ion: 75 Resp: 189188

Ion Ratio Lower Upper

75 100

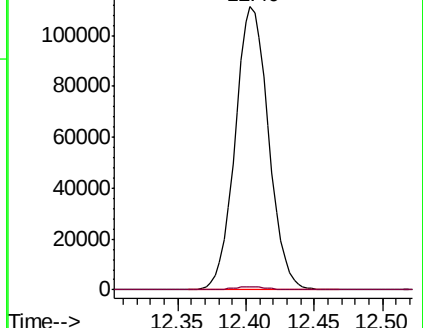
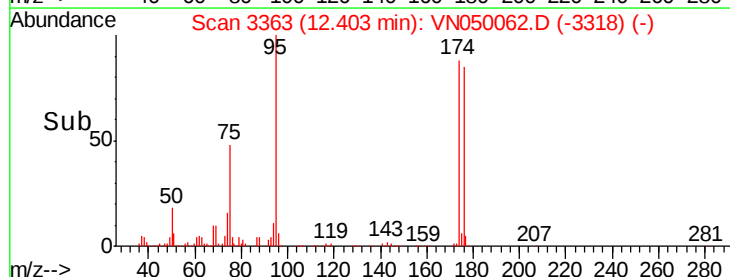
77 1.2 0.0 0.0#

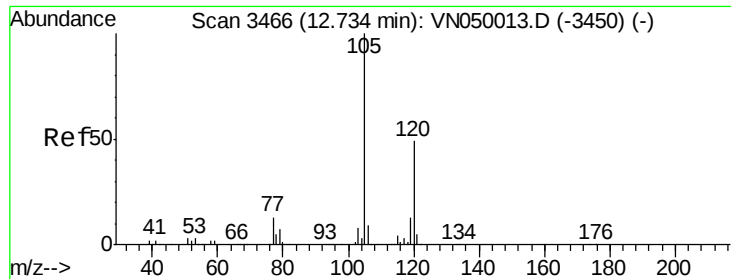


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->

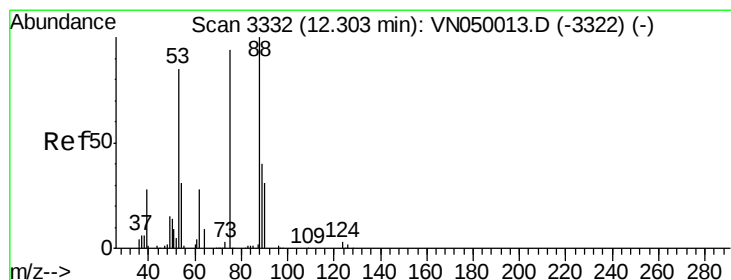
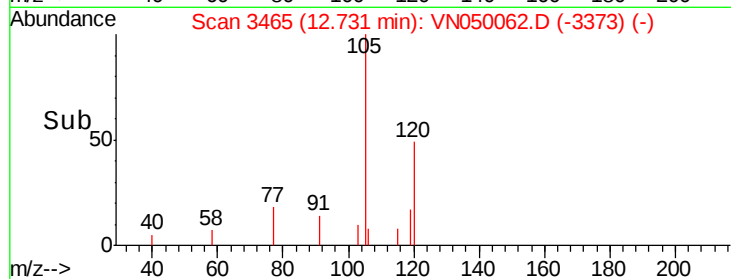
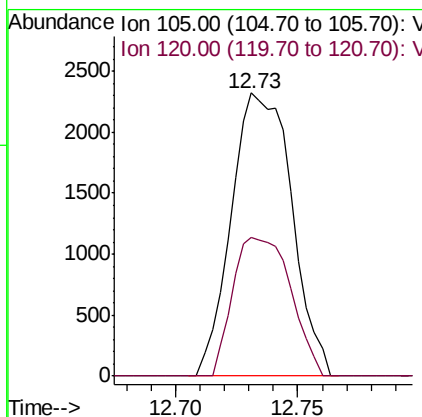
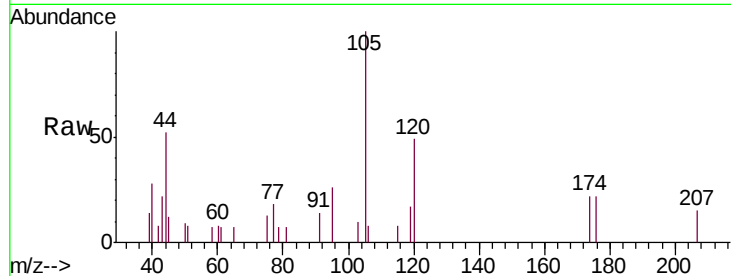




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 12.73 min Scan# 3465
 Delta R.T. -0.00 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

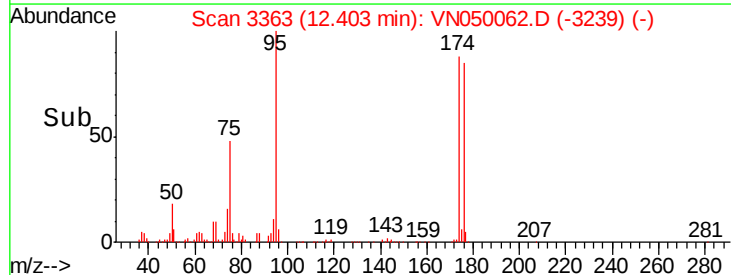
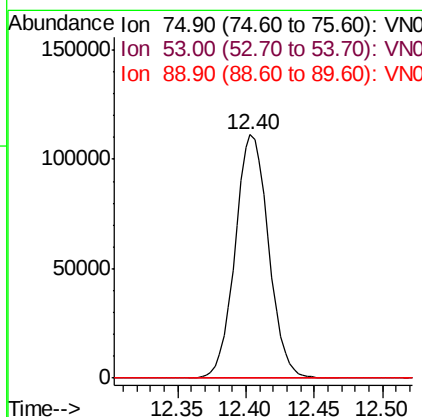
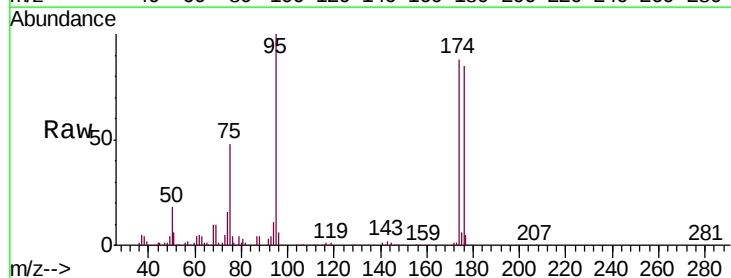
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#09

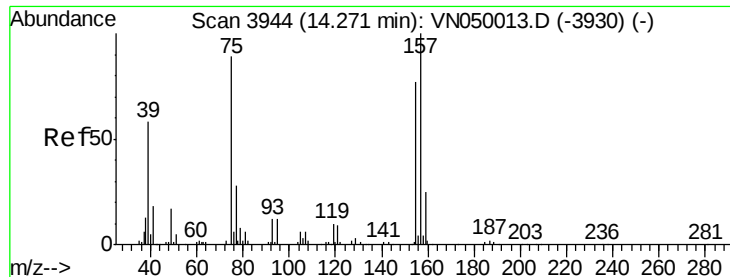
Tot Ion:105 Resp: 3986
 Ion Ratio Lower Upper
 105 100
 120 46.9 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.62 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050062.D
 Acq: 25 Jul 2018 23:29

Tgt Ion: 75 Resp: 189188
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.5 110.3#
 89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#09

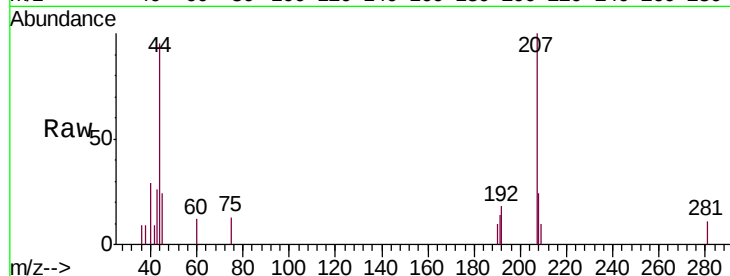
Tot Ion: 75 Resp: 177

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

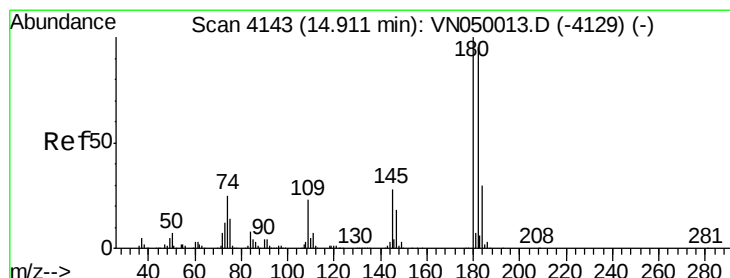
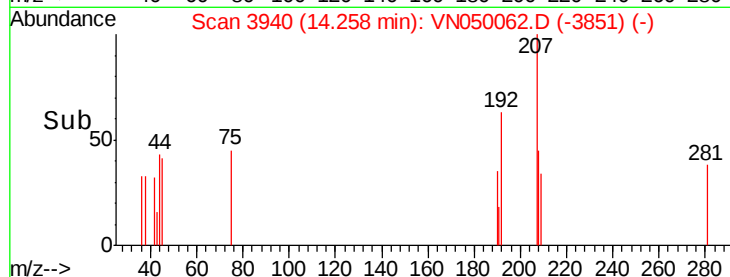
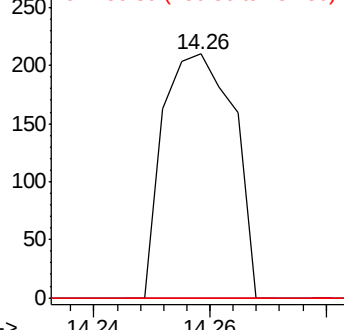
157 0.0 57.2 171.6#



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: 3.10 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050062.D

Acq: 25 Jul 2018 23:29

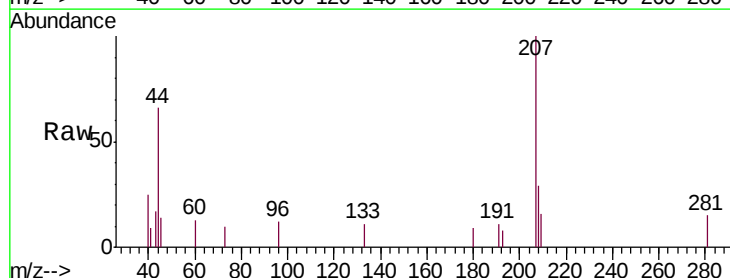
Tgt Ion: 180 Resp: 99

Ion Ratio Lower Upper

180 100

182 63.6 46.7 140.1

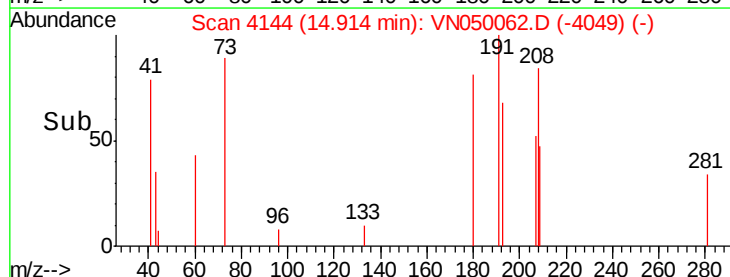
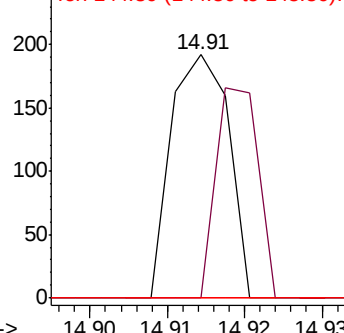
145 0.0 13.8 41.4#

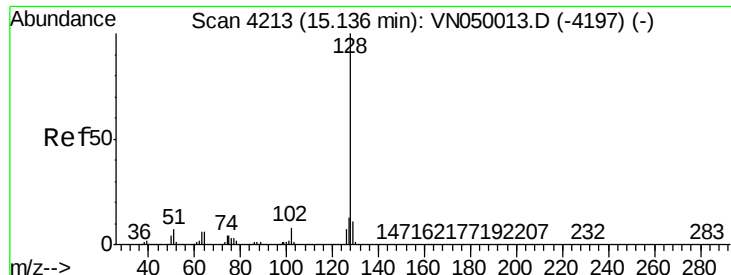


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

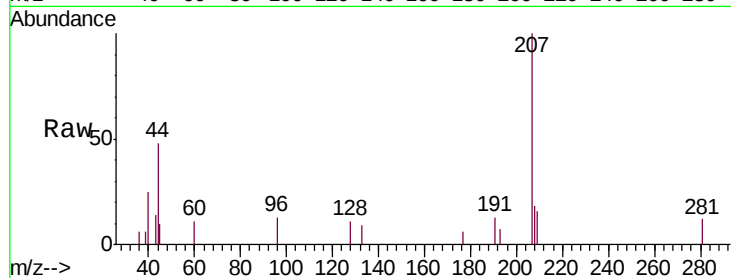




#95
Naphthalene
Concen: 4.44 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050062.D
Acq: 25 Jul 2018 23:29

Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#09

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#



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

