

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051018.D
 Acq On : 4 Sep 2018 14:41
 Operator : MD\SY
 Sample : PB112553ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#04

Quant Time: Sep 05 01:08:49 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	591454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	965031	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	821682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261034	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	380847	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
35) Dibromofluoromethane	7.59	113	365845	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.09	98	1312038	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
62) 4-Bromofluorobenzene	12.40	95	344259	36.09	ug/l	0.00
Spiked Amount			Recovery	=	72.18%	

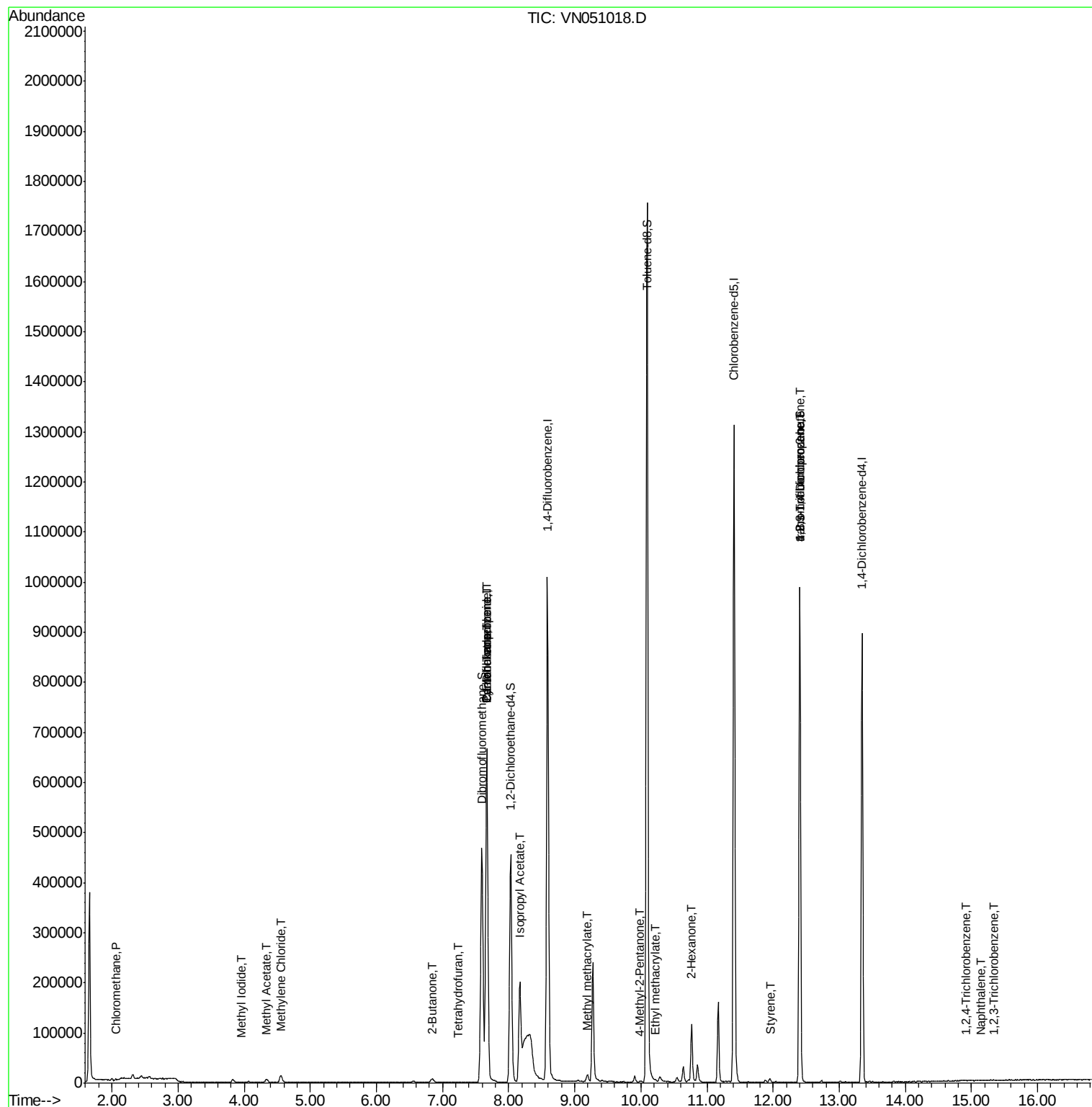
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2137	0.22	ug/l	94
5) Bromomethane	2.57	94	2197	Below	Cal	84
10) Methyl Iodide	3.95	142	234	6.37	ug/l #	43
16) Acetone	3.82	43	9805	Below	Cal	95
18) Methyl Acetate	4.33	43	11878	1.77	ug/l	94
20) Methylene Chloride	4.56	84	11543	1.44	ug/l #	83
25) 2-Butanone	6.85	43	3672	1.28	ug/l	99
29) Tetrahydrofuran	7.23	42	844	0.51	ug/l #	33
31) Cyclohexane	7.67	56	9398	1.23	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39289	3.45	ug/l #	44
38) Carbon Tetrachloride	7.67	117	51527	4.48	ug/l #	16
43) Isopropyl Acetate	8.17	43	258817	23.01	ug/l	95
48) Methyl methacrylate	9.18	41	7868	1.37	ug/l #	20
51) 4-Methyl-2-Pentanone	9.98	43	1579	0.24	ug/l	92
56) Ethyl methacrylate	10.23	69	1965	2.54	ug/l #	61
59) 2-Hexanone	10.77	43	18316	4.10	ug/l	63
70) Styrene	11.97	104	253	1.28	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.40	83	59	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	162729	35.59	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162729	120.32	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	205	4.12	ug/l #	53
95) Naphthalene	15.14	128	495	5.44	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.33	180	106	3.32	ug/l #	80

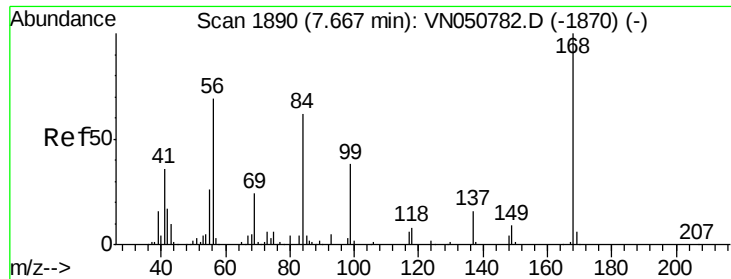
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
Data File : VN051018.D
Acq On : 4 Sep 2018 14:41
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Sample : PB112553ZHE#04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
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Quant Time: Sep 05 01:08:49 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: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

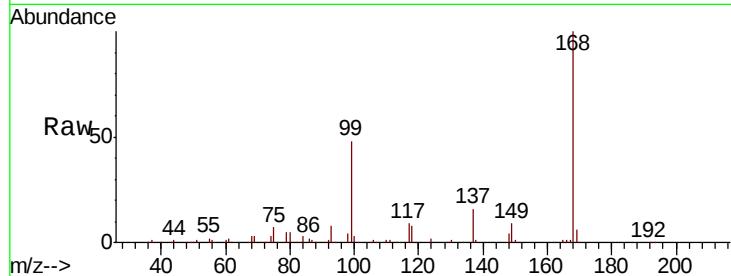
PB112553ZHE#04

Tot Ion:168 Resp: 591454

Ion Ratio Lower Upper

168 100

99 47.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

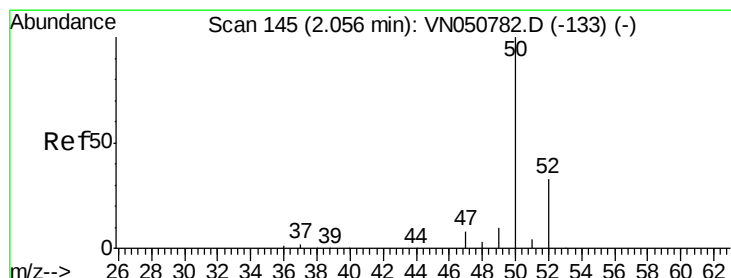
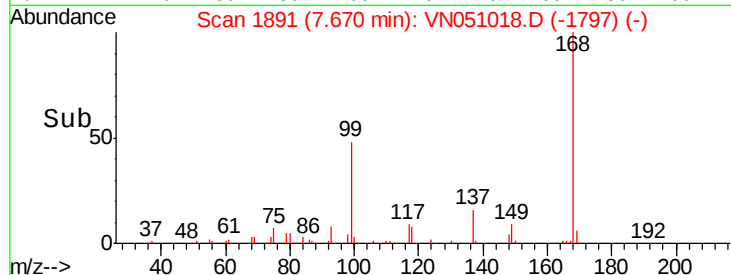
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN051018.D

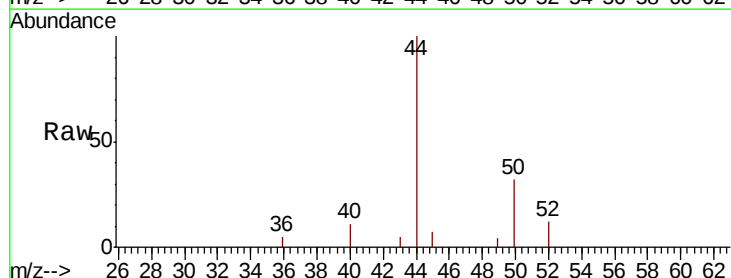
Acq: 4 Sep 2018 14:41

Tgt Ion: 50 Resp: 2137

Ion Ratio Lower Upper

50 100

52 36.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

1500

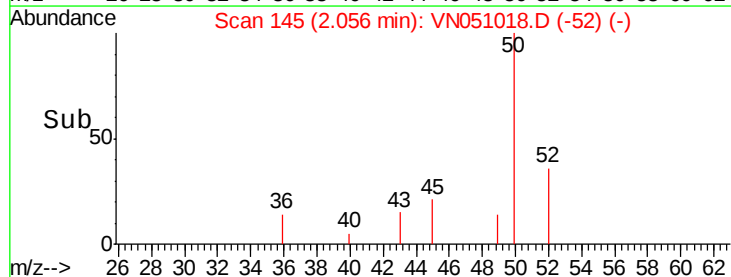
1000

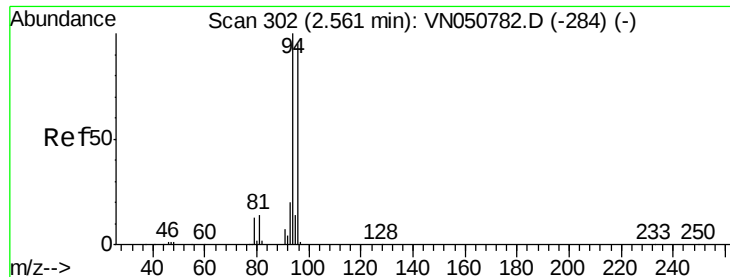
500

0

Time-->

2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

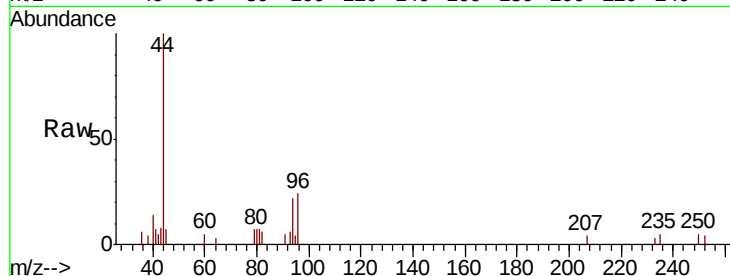
PB112553ZHE#04

Tot Ion: 94 Resp: 2197

Ion Ratio Lower Upper

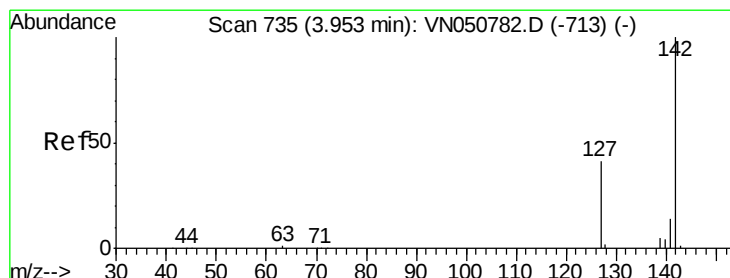
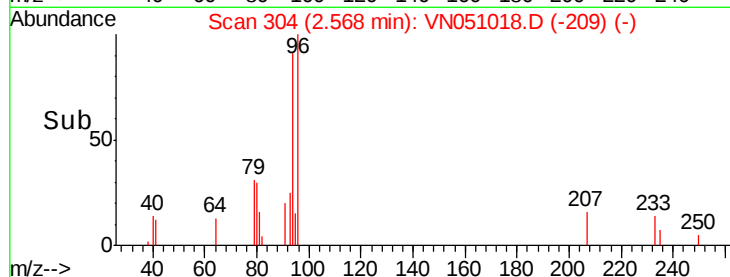
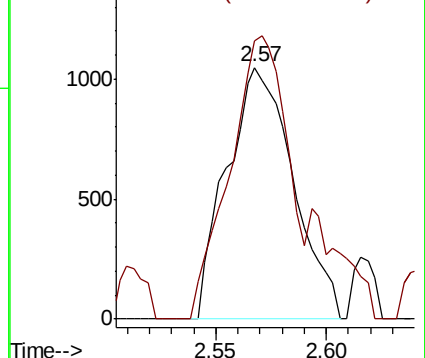
94 100

96 110.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN051018.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN051018.D (-284) (-)



#10

Methyl Iodide

Concen: 6.37 ug/l

RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

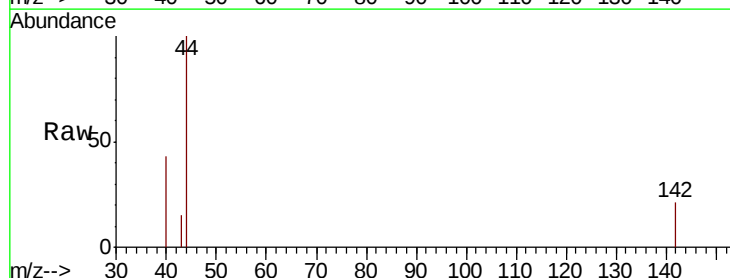
Tgt Ion: 142 Resp: 234

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

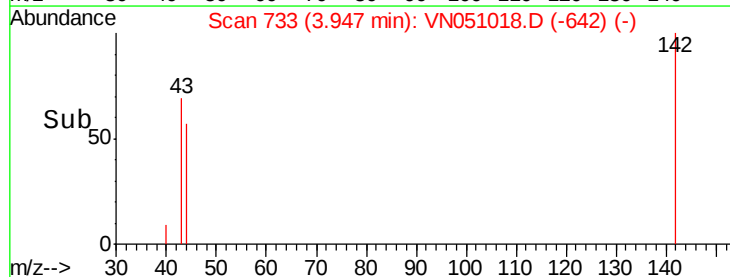
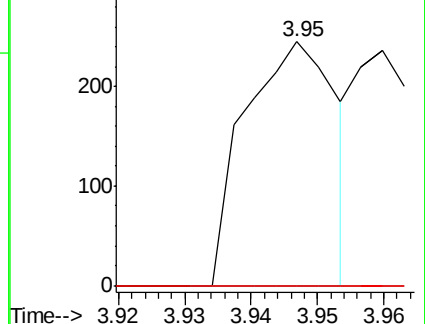
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN051018.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN051018.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN051018.D (-642) (-)

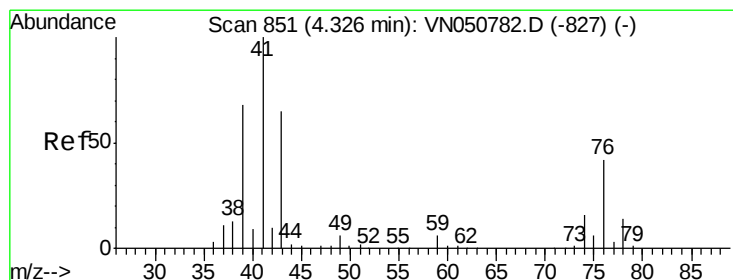
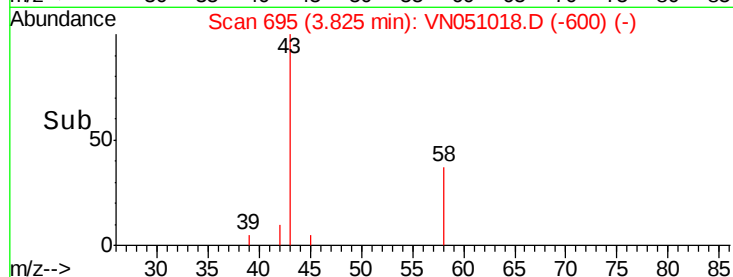
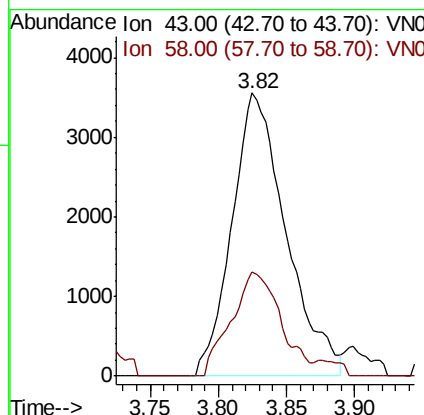
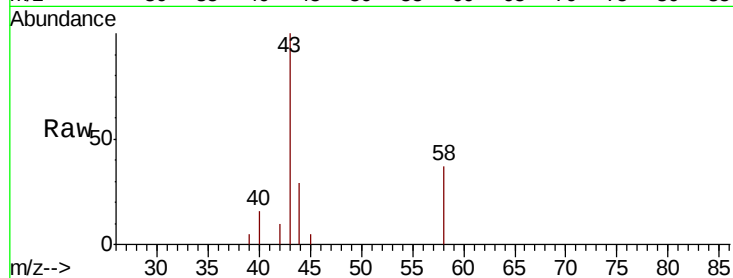




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

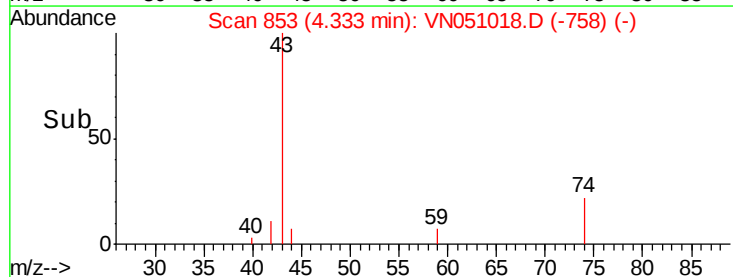
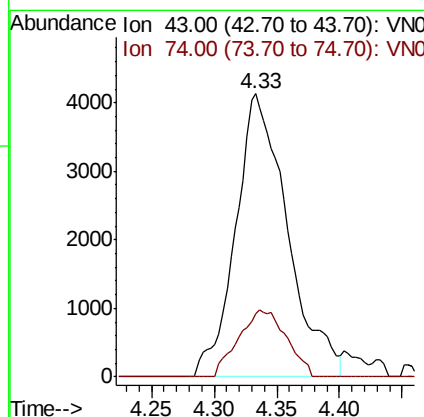
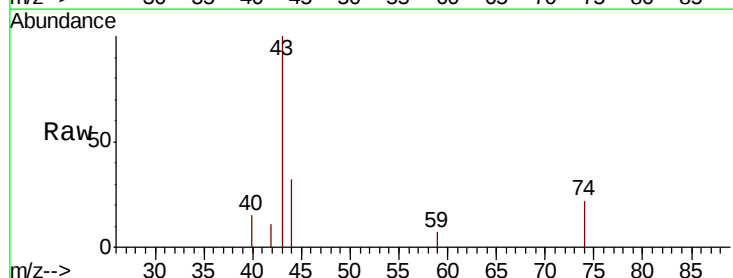
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#04

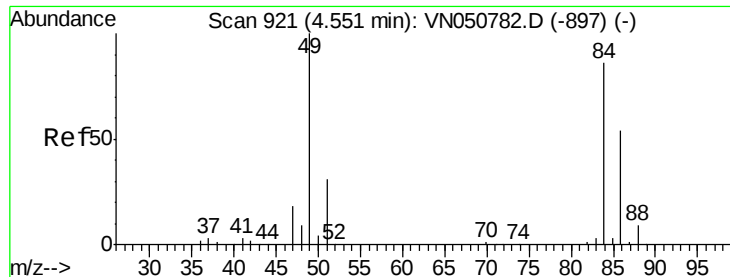
Tot Ion: 43 Resp: 9805
Ion Ratio Lower Upper
43 100
58 36.6 27.2 40.8



#18
Methyl Acetate
Concen: 1.77 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

Tgt Ion: 43 Resp: 11878
Ion Ratio Lower Upper
43 100
74 21.7 19.8 29.8

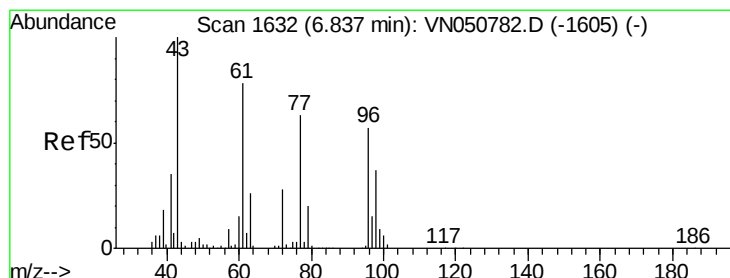
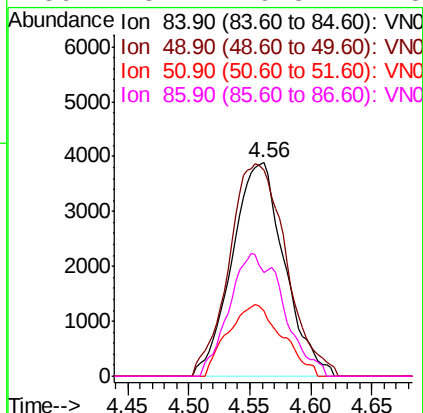
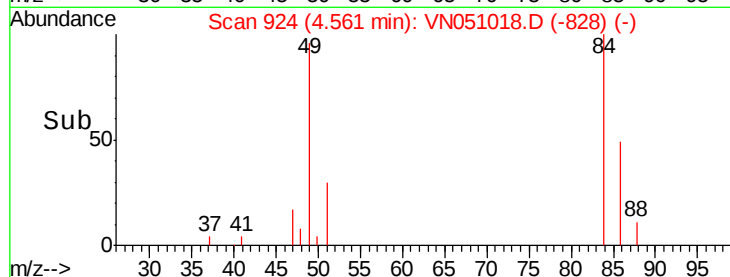
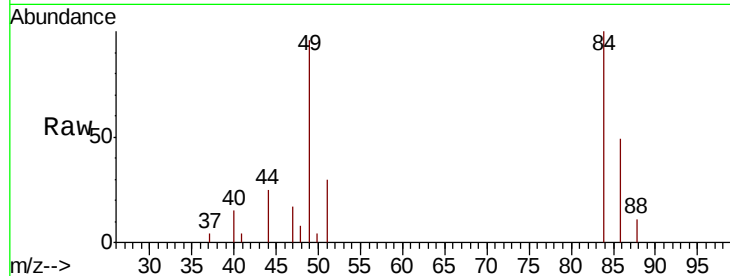




#20
Methvlene Chloride
Concen: 1.44 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

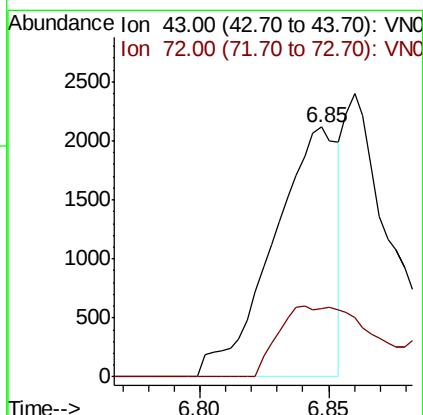
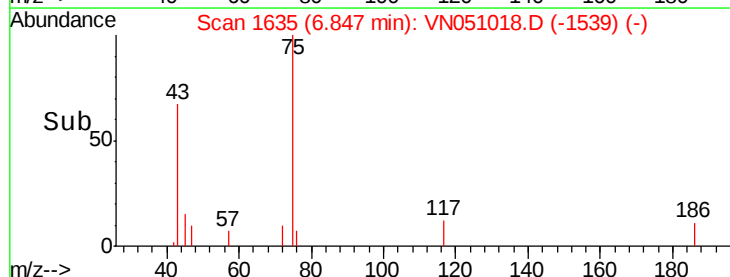
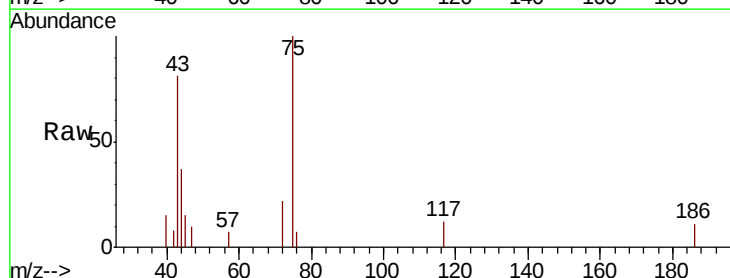
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#04

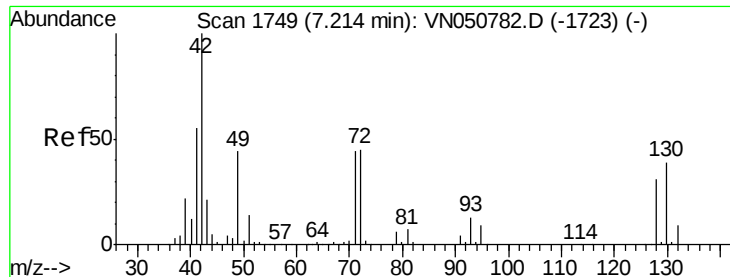
Tot Ion: 84 Resp: 11543
Ion Ratio Lower Upper
84 100
49 96.2 93.2 139.8
51 30.3 29.0 43.6
86 48.7 49.8 74.8#



#25
2-Butanone
Concen: 1.28 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

Tgt Ion: 43 Resp: 3672
Ion Ratio Lower Upper
43 100
72 27.2 22.3 33.5





#29

Tetrahydrofuran

Concen: 0.51 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#04

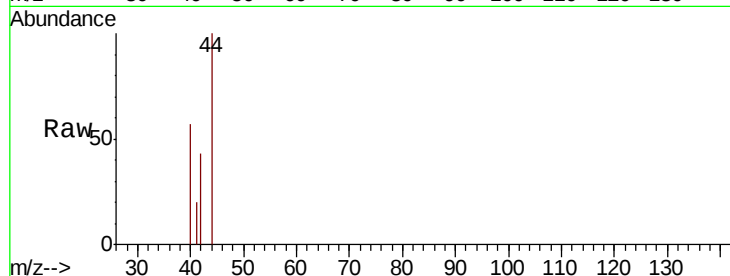
Tot Ion: 42 Resp: 844

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

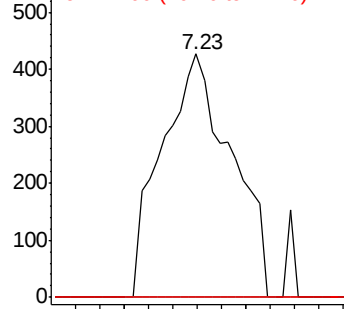
71 0.0 33.7 50.5#



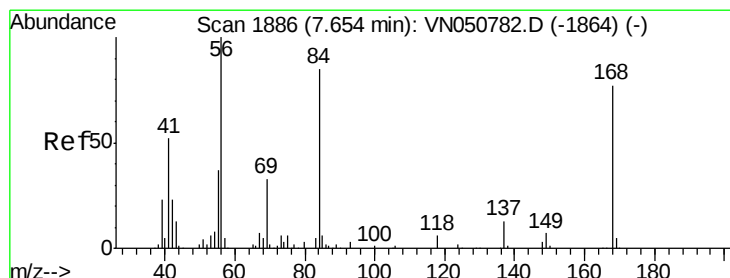
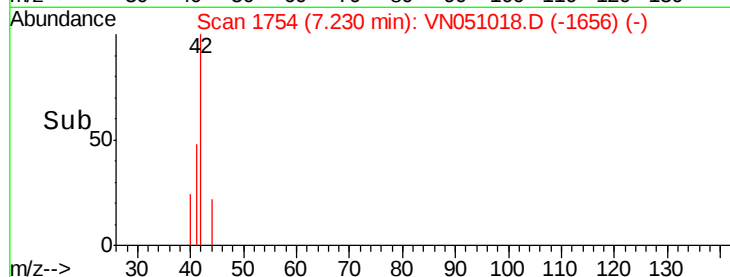
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.23 ug/l

RT: 7.67 min Scan# 1892

Delta R.T. 0.02 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

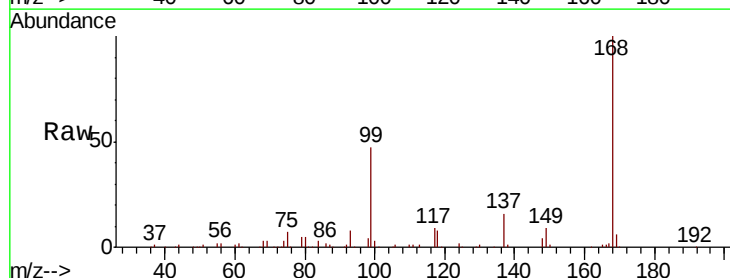
Tgt Ion: 56 Resp: 9398

Ion Ratio Lower Upper

56 100

69 217.9 26.2 39.4#

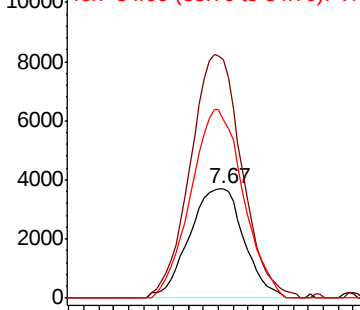
84 163.2 68.3 102.5#



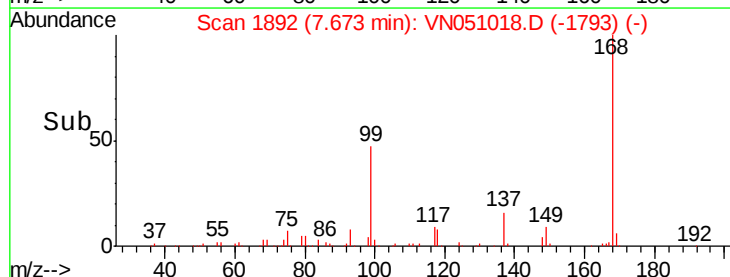
Abundance Ion 56.00 (55.70 to 56.70): VN0

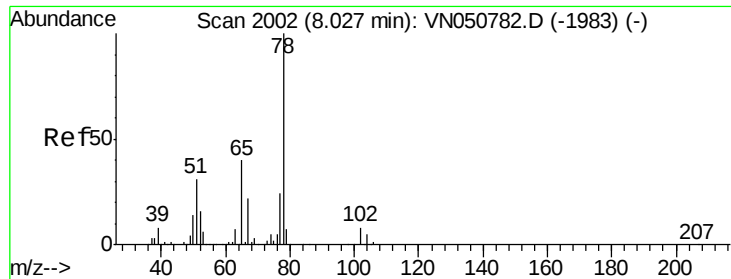
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

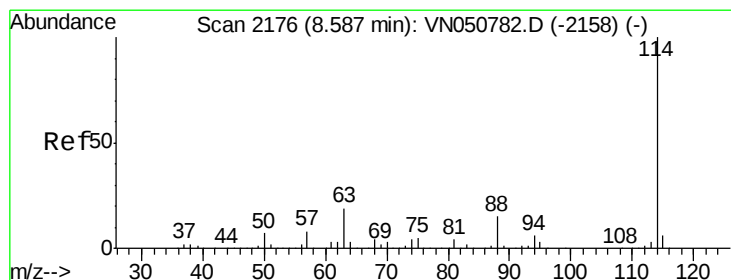
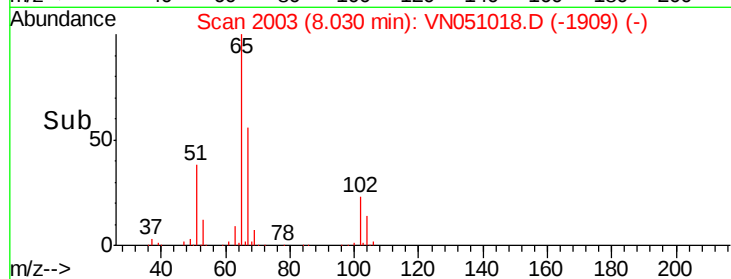
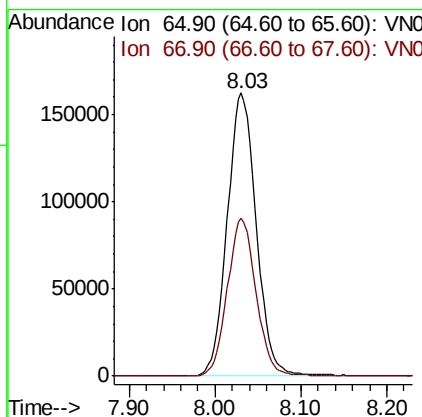
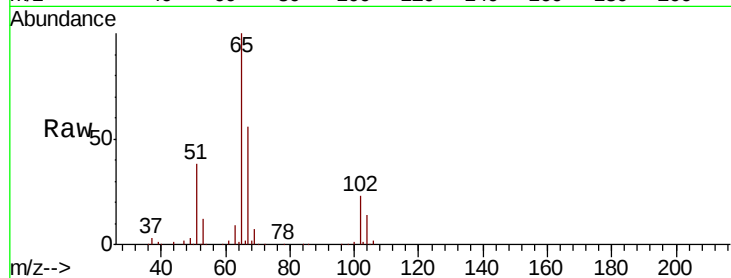




#33
 1,2-Dichloroethane-d4
 Concen: 53.49 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

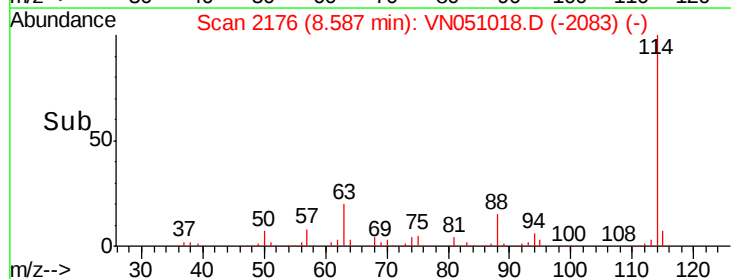
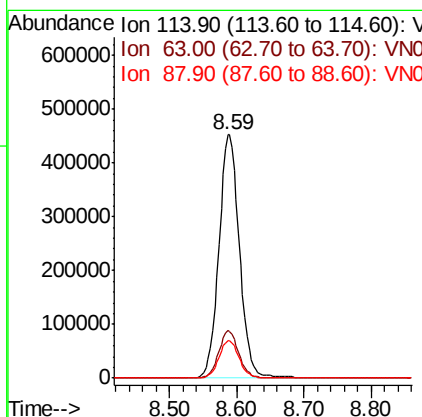
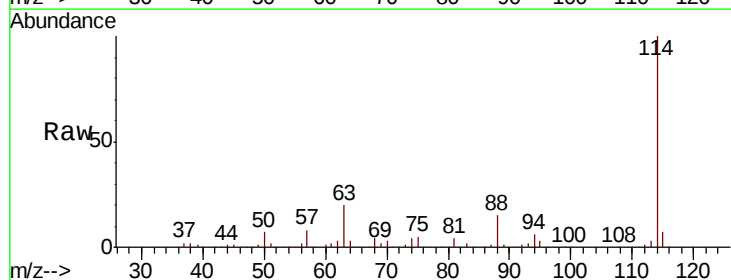
Instrument :
 MSVOA_N
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 PB112553ZHE#04

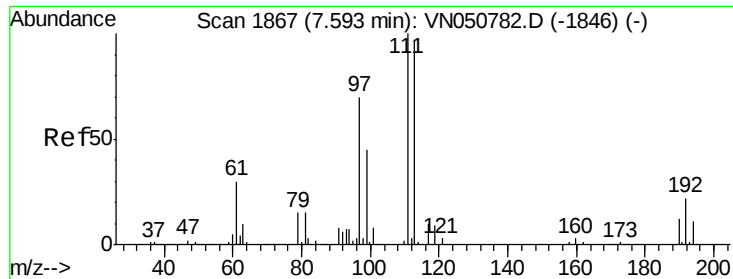
Tot Ion: 65 Resp: 380847
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

Tgt Ion: 114 Resp: 965031
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.3 0.0 30.6

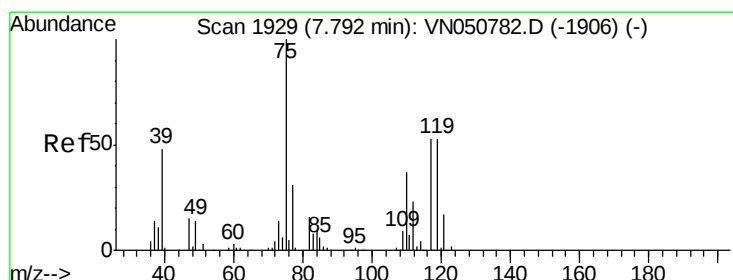
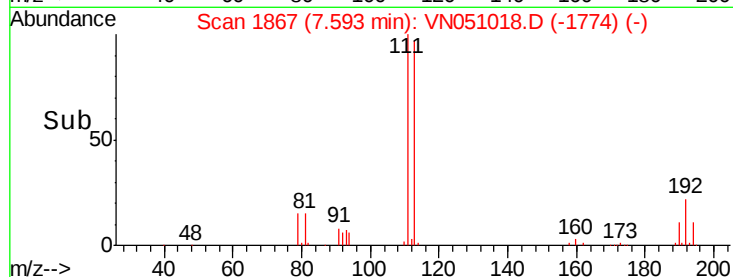
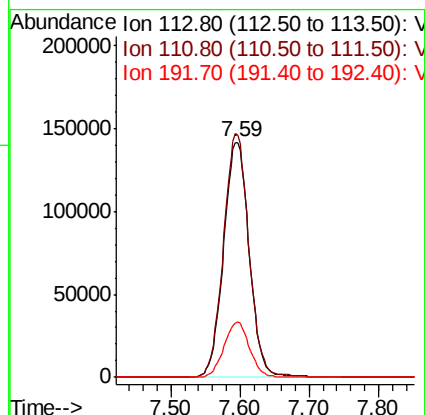
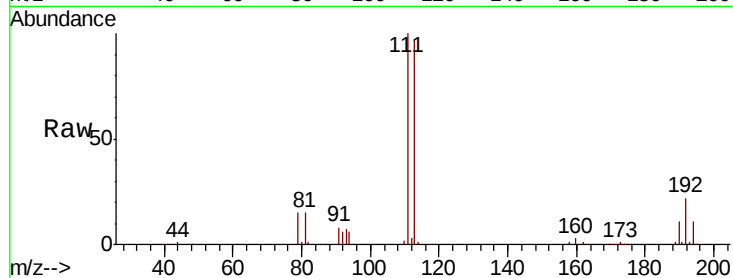




#35
 Dibromofluoromethane
 Concen: 47.65 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

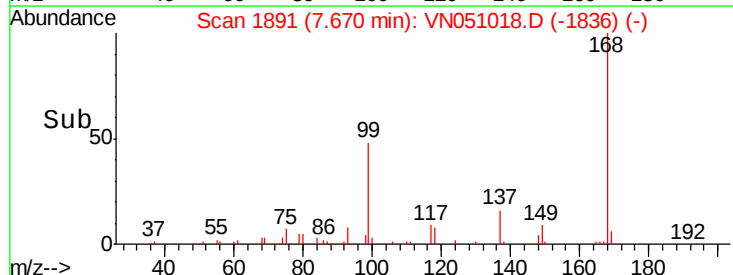
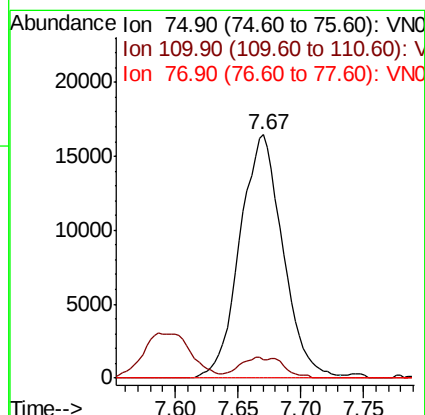
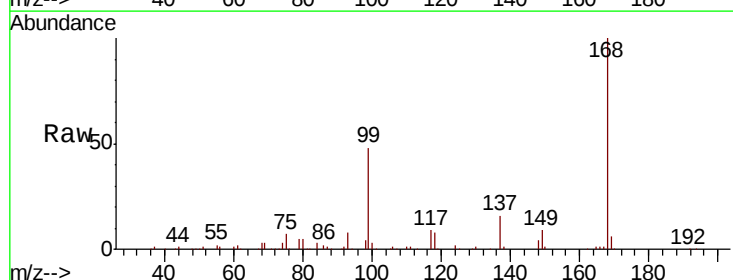
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#04

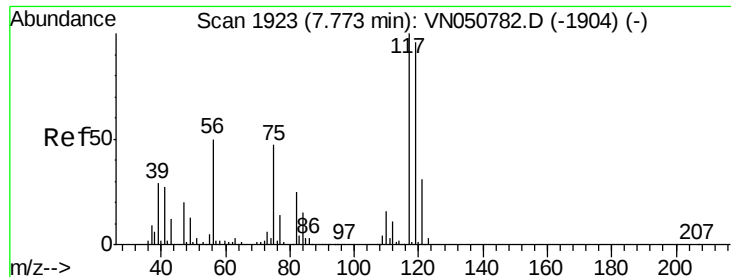
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	23.2	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.45 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.9	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.48 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#04

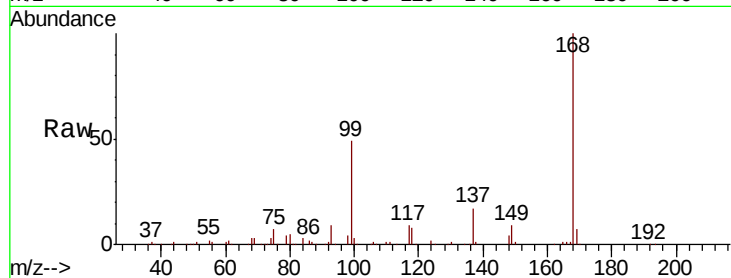
Tot Ion:117 Resp: 51527

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

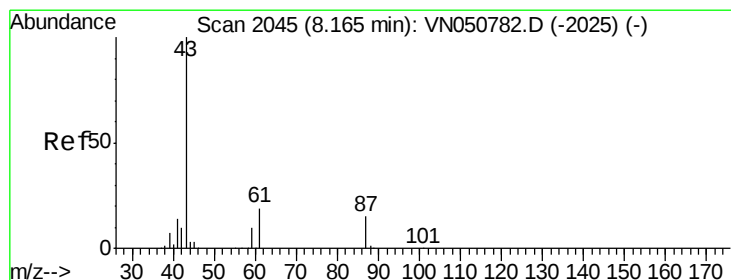
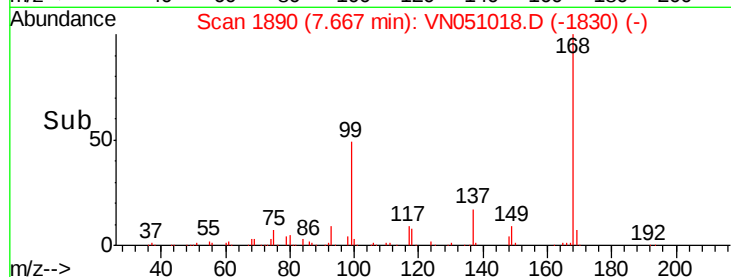
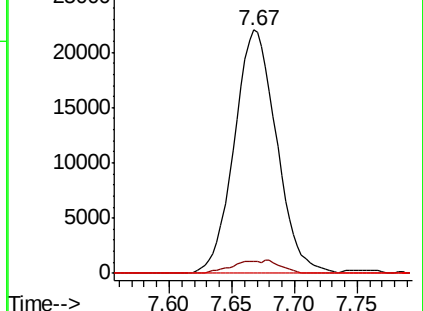
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 23.01 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

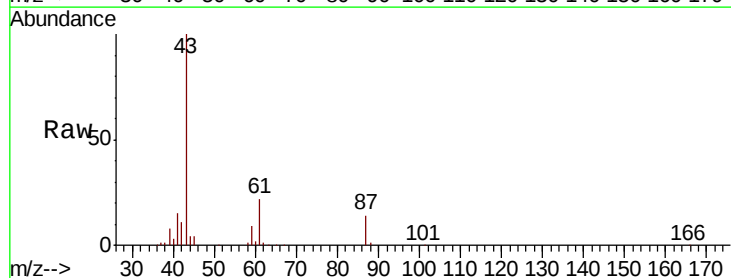
Tgt Ion: 43 Resp: 258817

Ion Ratio Lower Upper

43 100

61 18.8 17.5 26.3

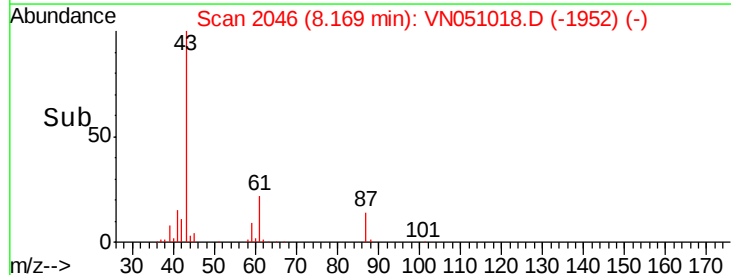
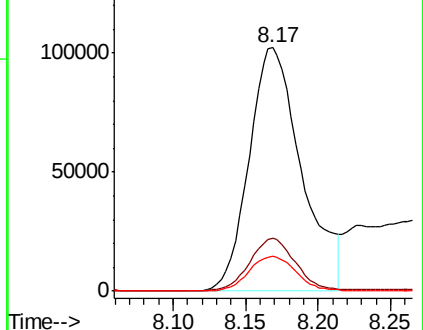
87 12.7 11.3 16.9

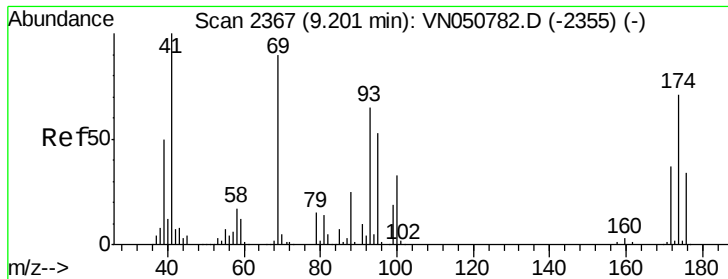


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

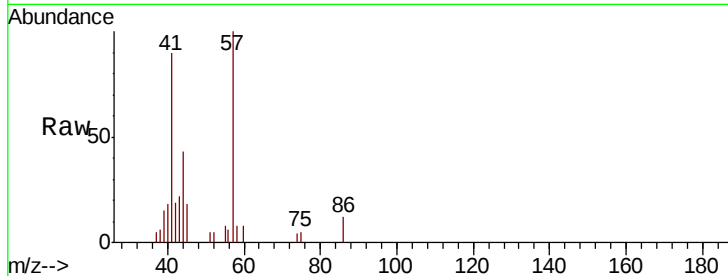




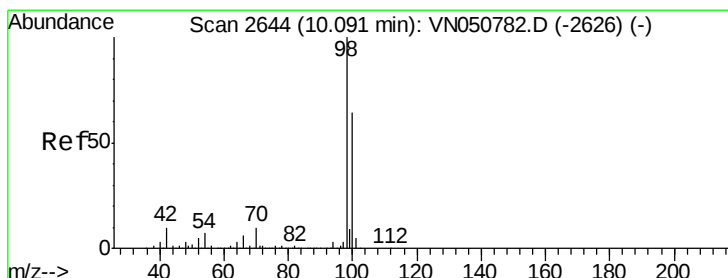
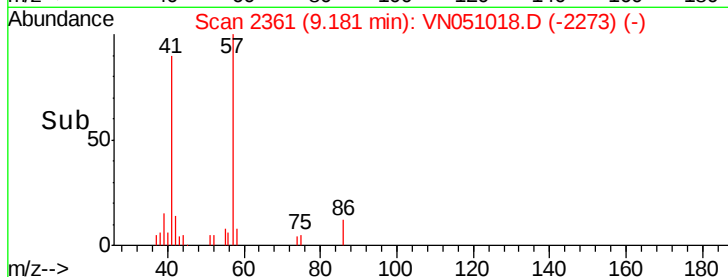
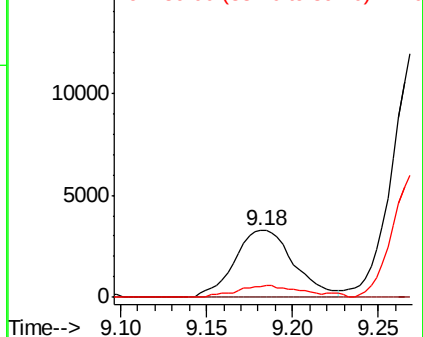
#48
Methvl methacrylate
Concen: 1.37 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#04

Tot Ion: 41 Resp: 7868
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 18.1 42.2 63.2#

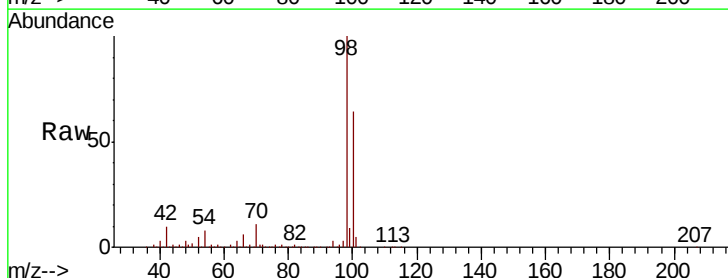


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

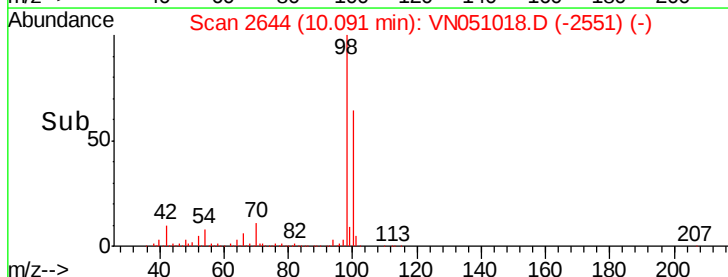
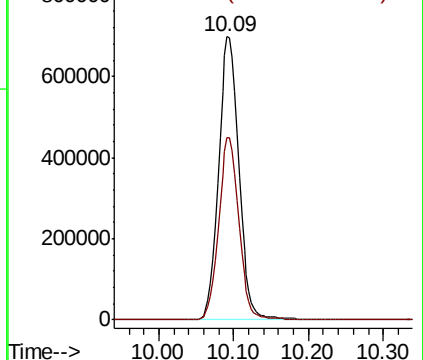


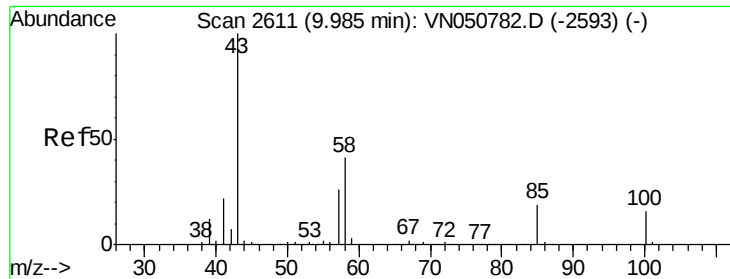
#50
Toluene-d8
Concen: 45.71 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

Tgt Ion: 98 Resp: 1312038
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

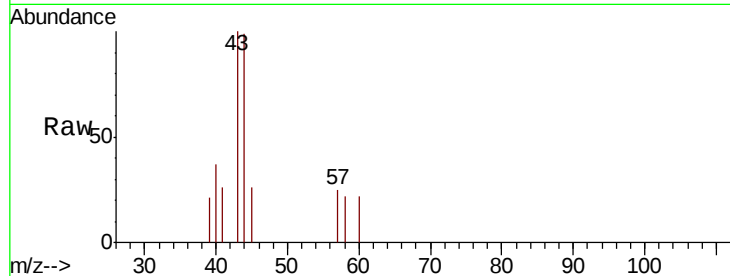
PB112553ZHE#04

Tot Ion: 43 Resp: 1579

Ion Ratio Lower Upper

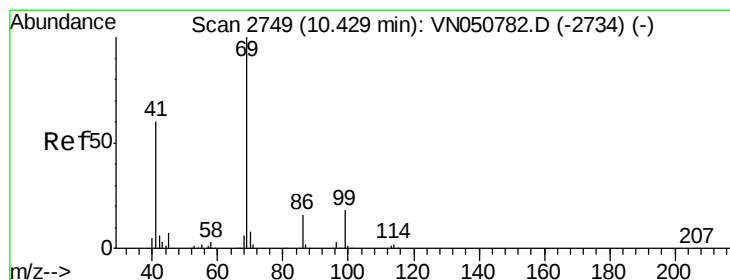
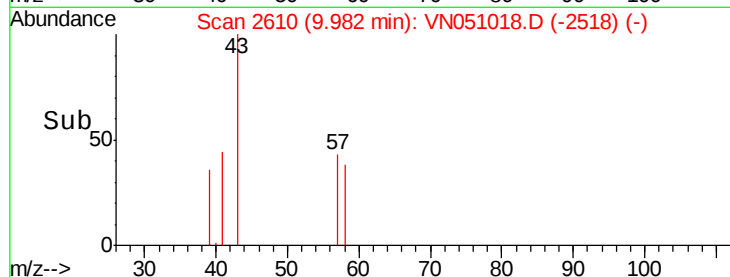
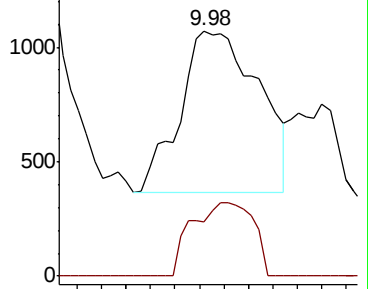
43 100

58 35.5 32.4 48.6



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

Ion 58.00 (57.70 to 58.70): VN050782.D (-2593) (-)



#56

Ethyl methacrylate

Concen: 2.54 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

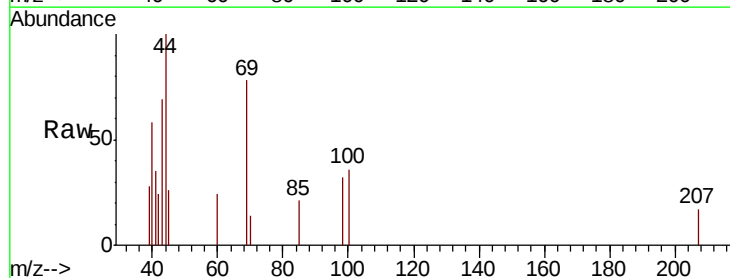
Tgt Ion: 69 Resp: 1965

Ion Ratio Lower Upper

69 100

41 19.9 48.3 72.5#

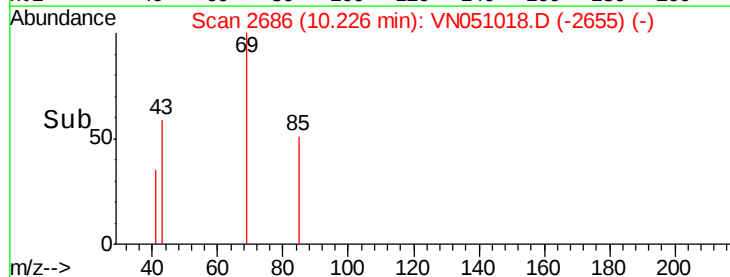
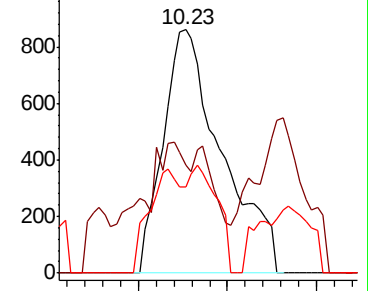
39 24.9 24.0 36.0

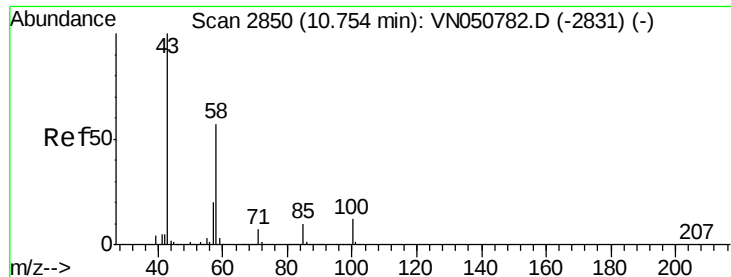


Abundance Ion 69.00 (68.70 to 69.70): VN050782.D (-2734) (-)

Ion 41.00 (40.70 to 41.70): VN050782.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050782.D (-2734) (-)





#59

2-Hexanone

Concen: 4.10 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

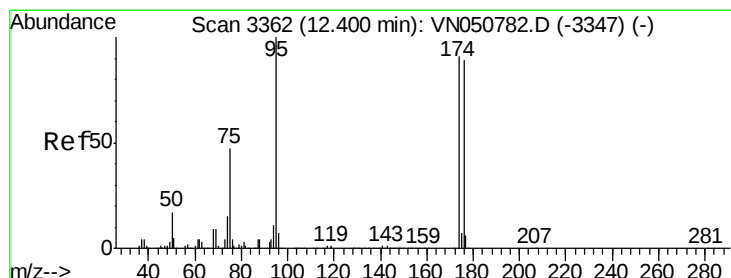
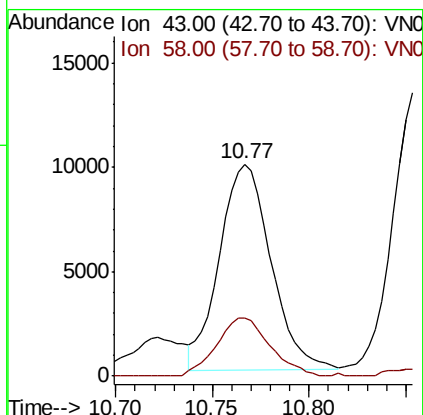
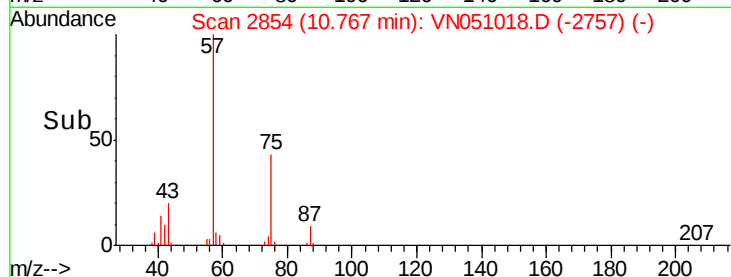
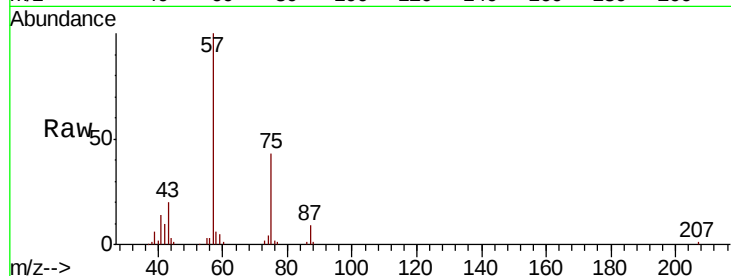
PB112553ZHE#04

Tot Ion: 43 Resp: 18316

Ion Ratio Lower Upper

43 100

58 29.2 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 36.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

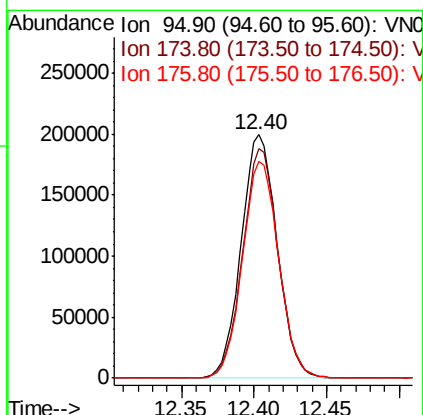
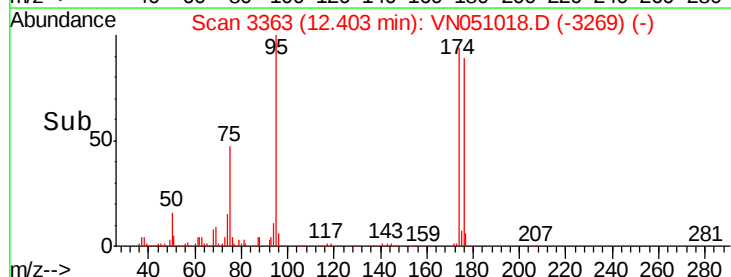
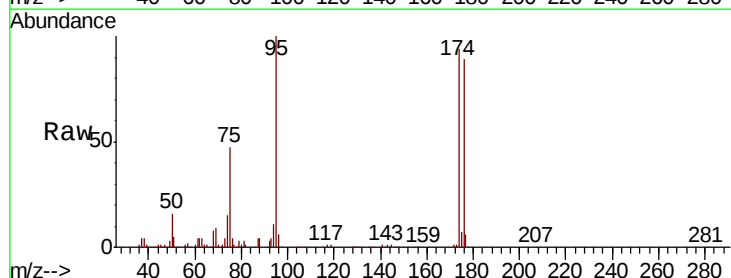
Tgt Ion: 95 Resp: 344259

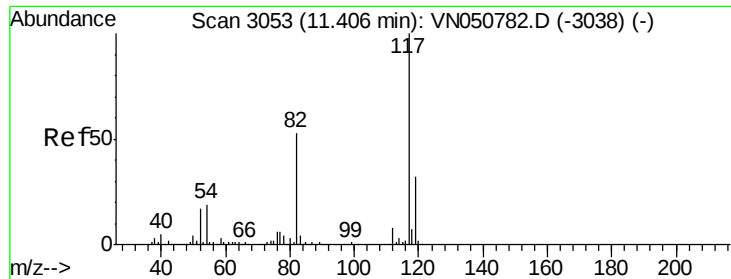
Ion Ratio Lower Upper

95 100

174 93.5 0.0 183.0

176 89.8 0.0 178.8

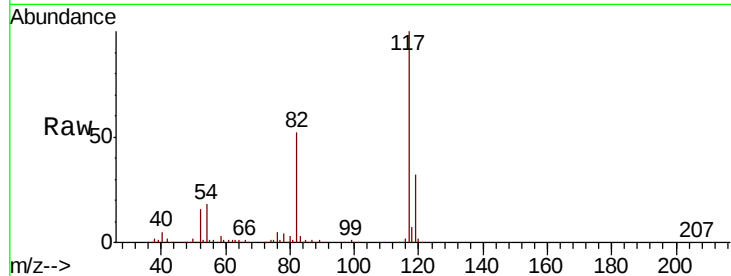




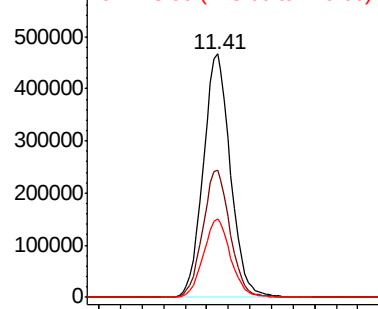
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#04

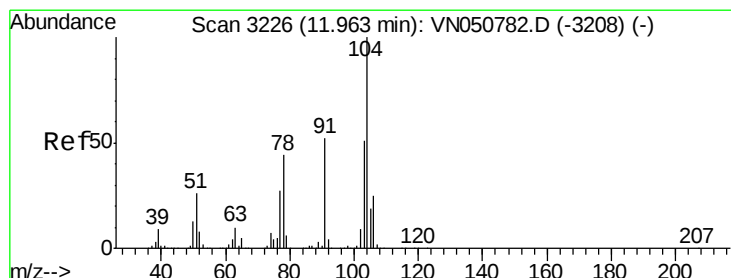
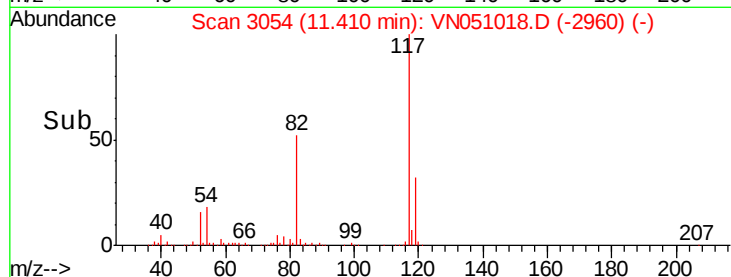
Tot Ion:117 Resp: 821682
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

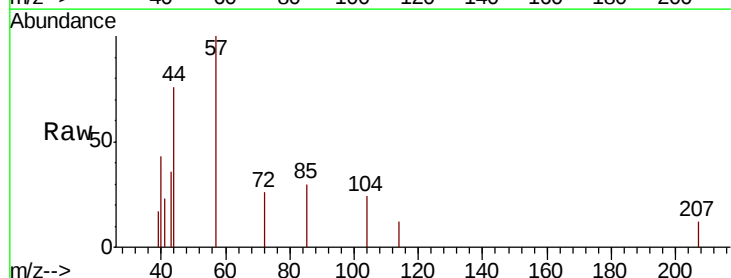


Time--> 11.30 11.40 11.50

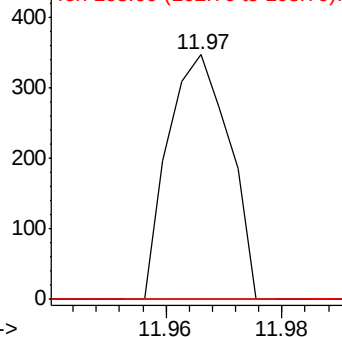


#70
Styrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN051018.D
Acq: 4 Sep 2018 14:41

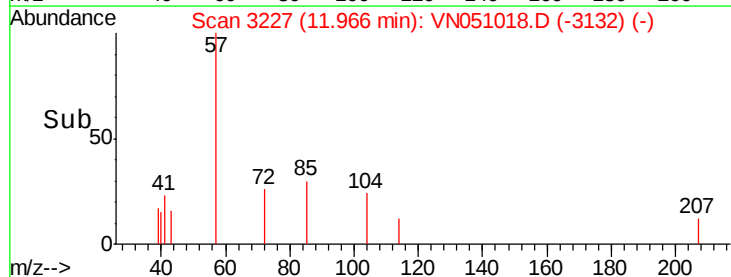
Tgt Ion:104 Resp: 253
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#

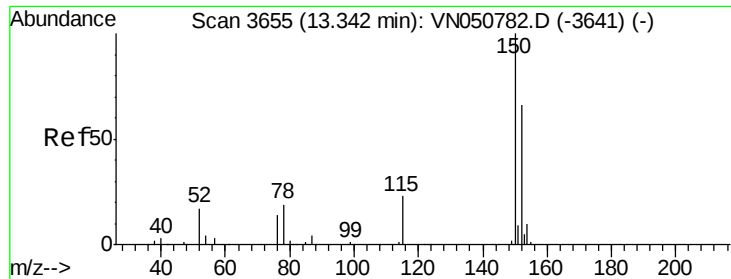


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VNO
Ion 103.00 (102.70 to 103.70): V



Time--> 11.96 11.98





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#04

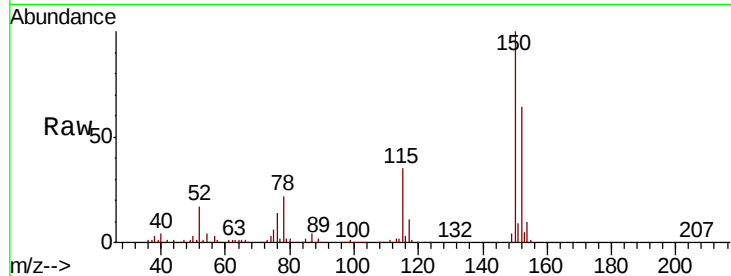
Tot Ion:152 Resp: 261034

Ion Ratio Lower Upper

152 100

115 54.9 27.8 83.4

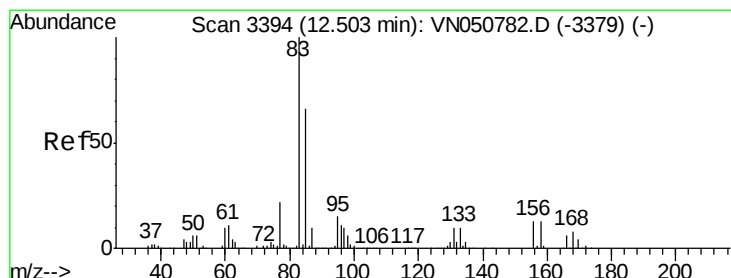
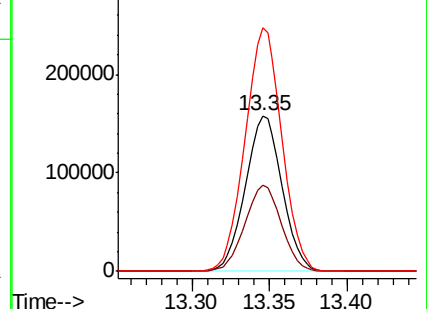
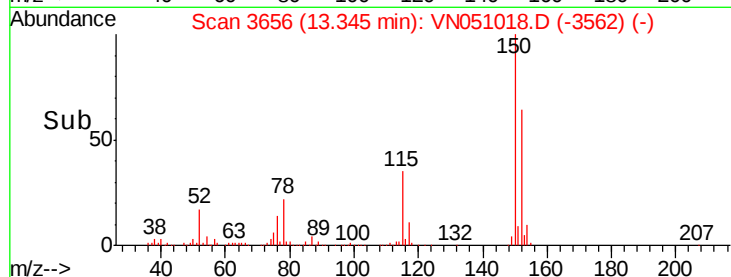
150 156.8 0.0 351.4



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# 3361

Delta R.T. -0.11 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

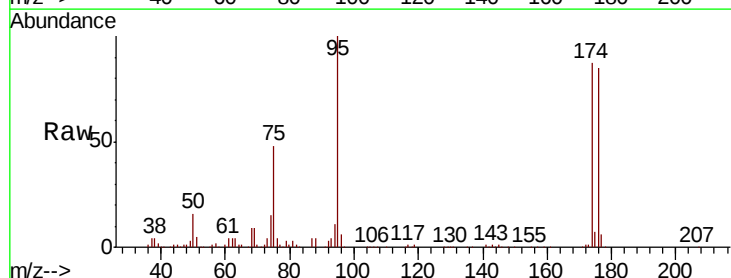
Tgt Ion: 83 Resp: 59

Ion Ratio Lower Upper

83 100

131 633.9 5.3 15.9#

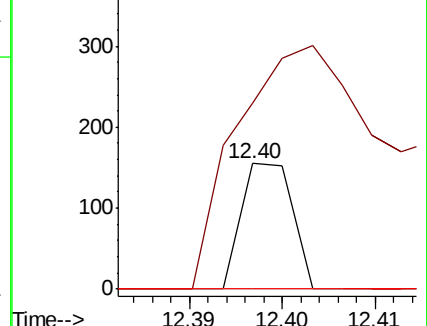
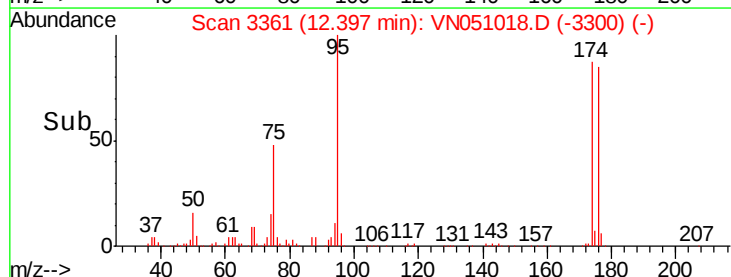
85 0.0 31.9 95.7#

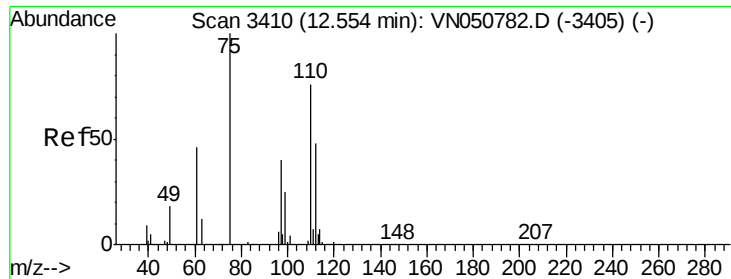


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

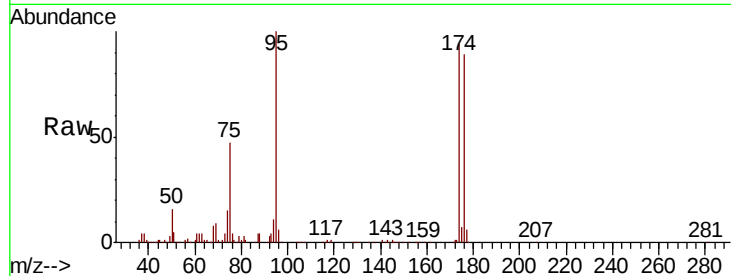
PB112553ZHE#04

Tot Ion: 75 Resp: 162729

Ion Ratio Lower Upper

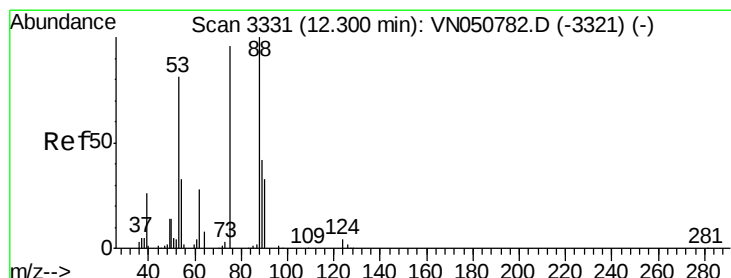
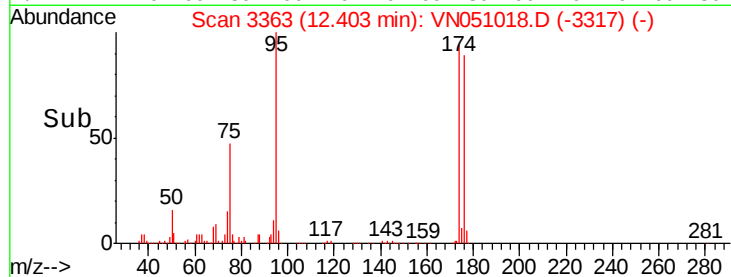
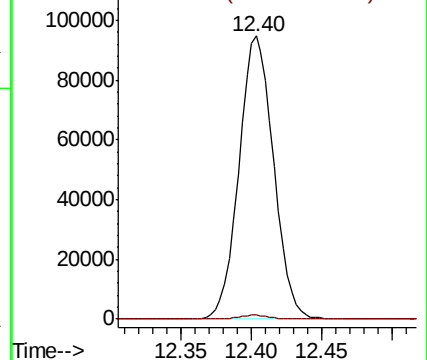
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 120.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

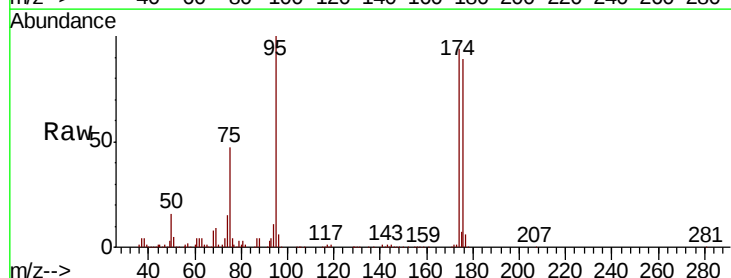
Tgt Ion: 75 Resp: 162729

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

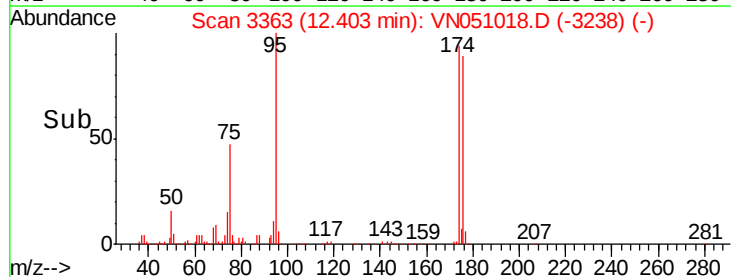
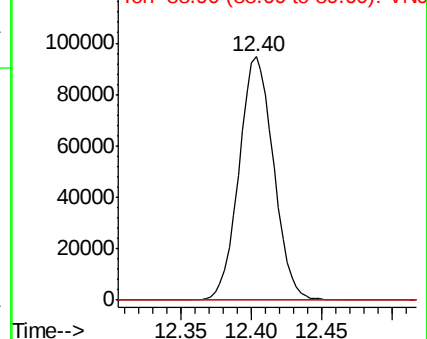
89 0.0 36.1 54.1#

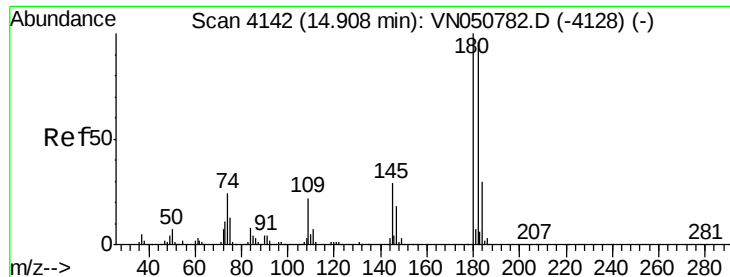


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

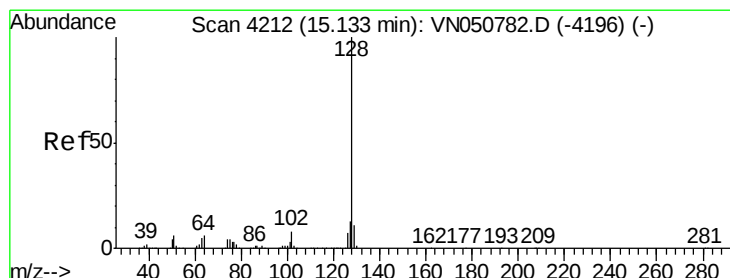
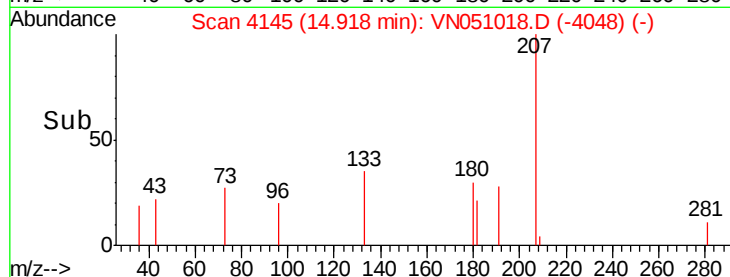
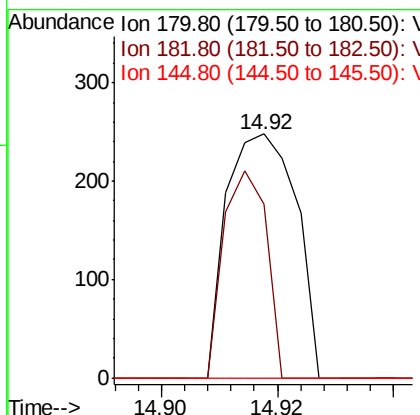
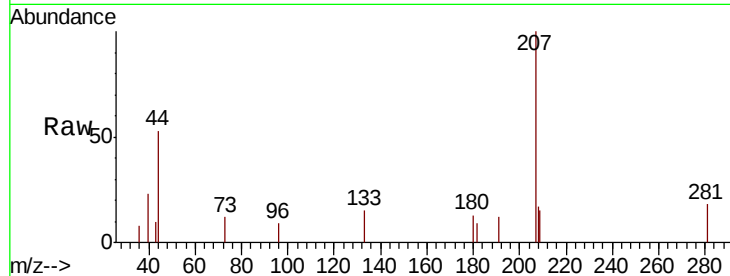




#93
 1,2,4-Trichlorobenzene
 Concen: 4.12 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

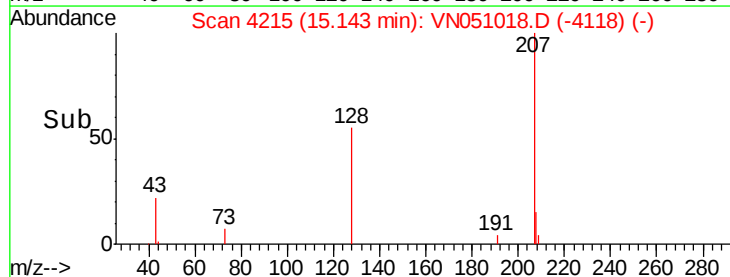
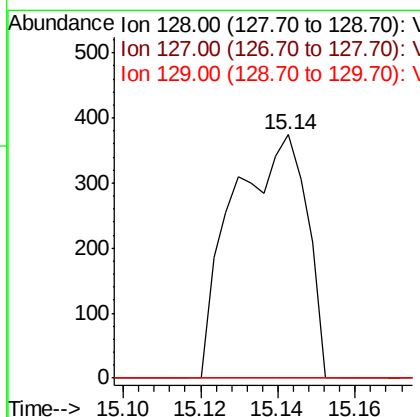
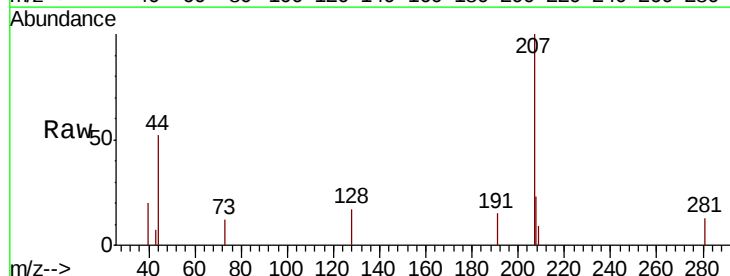
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#04

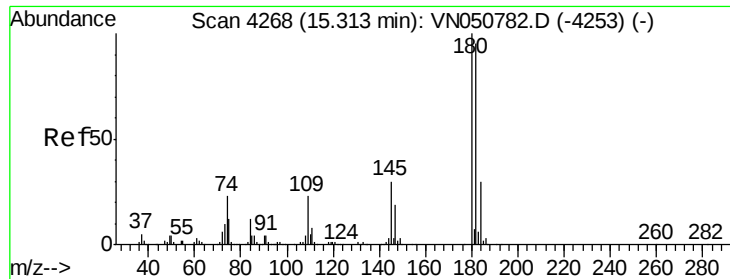
Tot Ion:180 Resp: 205
 Ion Ratio Lower Upper
 180 100
 182 52.2 48.2 144.6
 145 0.0 14.1 42.2#



#95
 Naphthalene
 Concen: 5.44 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN051018.D
 Acq: 4 Sep 2018 14:41

Tgt Ion:128 Resp: 495
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 3.32 ug/l

RT: 15.33 min Scan# 4273

Delta R.T. 0.02 min

Lab File: VN051018.D

Acq: 4 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#04

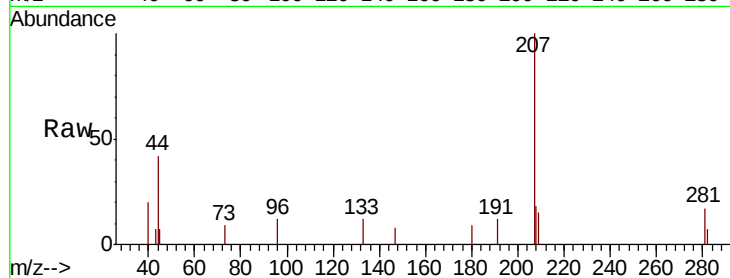
Tot Ion:180 Resp: 106

Ion Ratio Lower Upper

180 100

182 104.7 48.0 144.2

145 0.0 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

