

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050486.D
 Acq On : 9 Aug 2018 15:26
 Operator : MD\SY
 Sample : PB111888ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 04:04:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	799867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1272007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1097486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	403637	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	523368	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
35) Dibromofluoromethane	7.59	113	479038	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
50) Toluene-d8	10.09	98	1744753	45.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.94%	
62) 4-Bromofluorobenzene	12.40	95	504302	38.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.12%	

Target Compounds

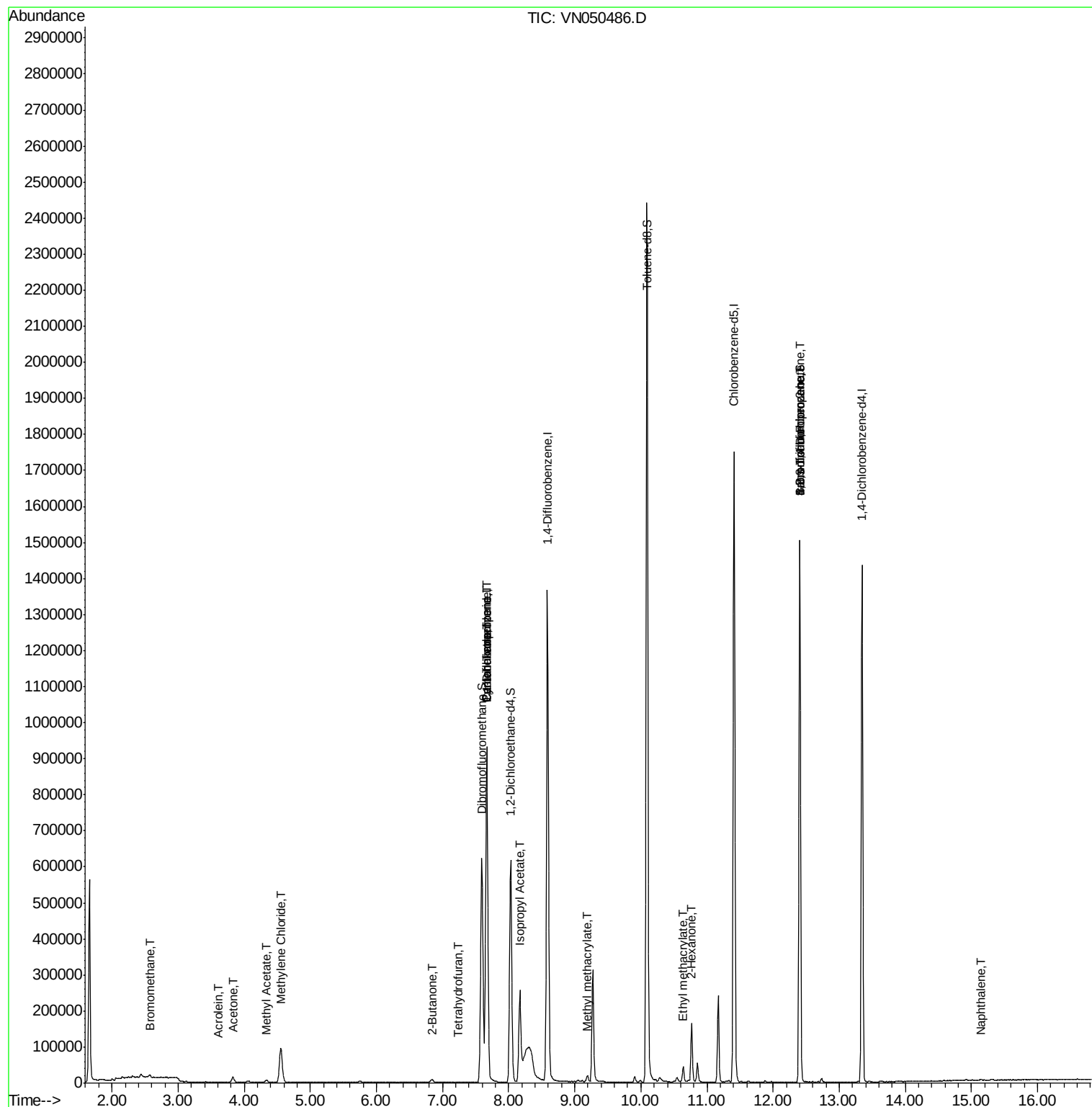
						Qvalue
3) Chloromethane	2.06	50	3941	Below Cal		99
5) Bromomethane	2.57	94	5671	1.18 ug/l		99
13) Acrolein	3.60	56	60	15.08 ug/l #		61
16) Acetone	3.83	43	24546	7.35 ug/l		99
18) Methyl Acetate	4.34	43	13268	1.41 ug/l		97
20) Methylene Chloride	4.55	84	76173	6.47 ug/l		96
25) 2-Butanone	6.86	43	5033	0.95 ug/l		95
29) Tetrahydrofuran	7.23	42	1567	0.55 ug/l #		57
31) Cyclohexane	7.67	56	14035	0.29 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	52767	3.78 ug/l #		48
38) Carbon Tetrachloride	7.67	117	70876	4.86 ug/l #		16
43) Isopropyl Acetate	8.17	43	312224	17.97 ug/l		99
48) Methyl methacrylate	9.18	41	9372	1.08 ug/l #		21
56) Ethyl methacrylate	10.64	69	543	1.75 ug/l #		1
59) 2-Hexanone	10.77	43	23828	2.73 ug/l #		56
71) Bromoform	12.40	173	4011	0.55 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	240762	32.95 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	240762	115.78 ug/l #		13
94) Hexachlorobutadiene	15.01	225	300	Below Cal		97
95) Naphthalene	15.14	128	2786	3.75 ug/l #		84

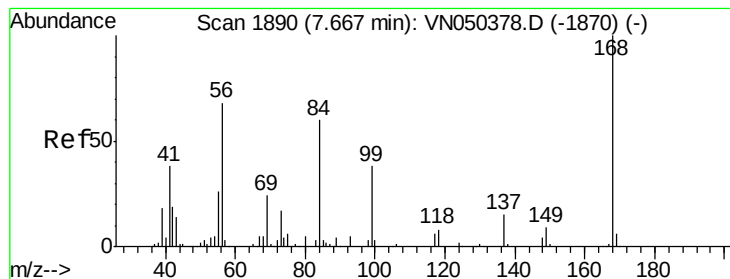
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050486.D

Acq: 9 Aug 2018 15:26

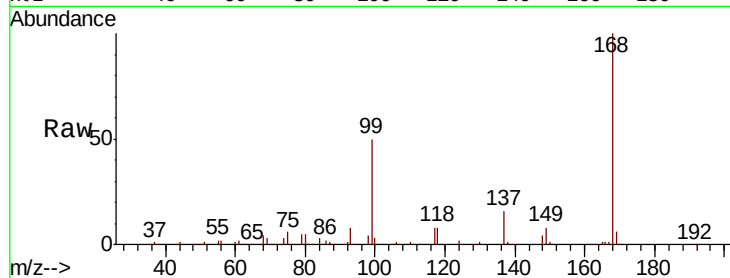
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 799867

Ion Ratio Lower Upper

168 100

99 49.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

400000

300000

200000

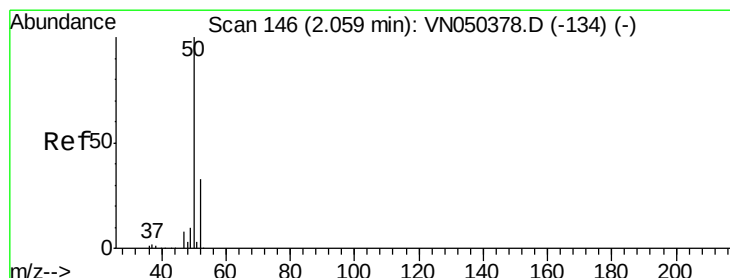
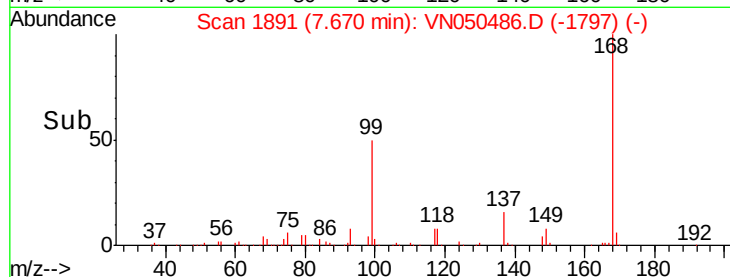
100000

0

7.67

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050486.D

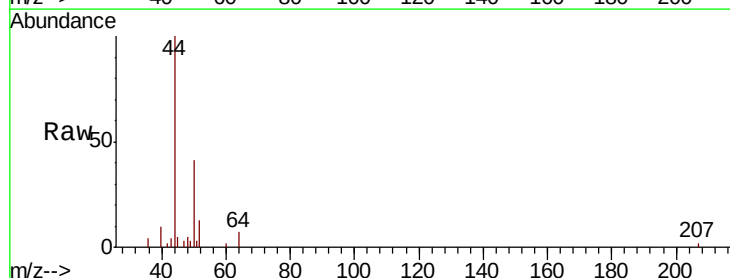
Acq: 9 Aug 2018 15:26

Tgt Ion: 50 Resp: 3941

Ion Ratio Lower Upper

50 100

52 32.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

3000

2000

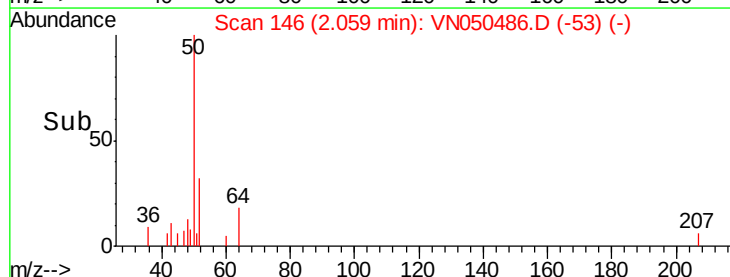
1000

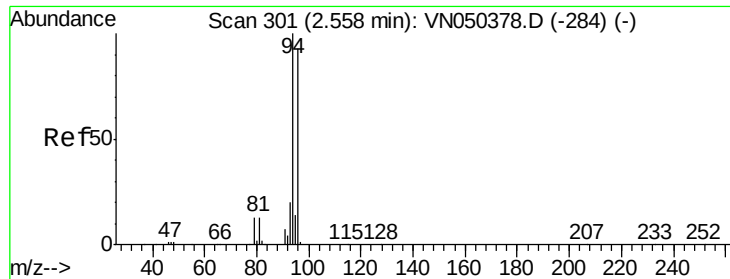
0

2.06

2.05 2.10

Time-->

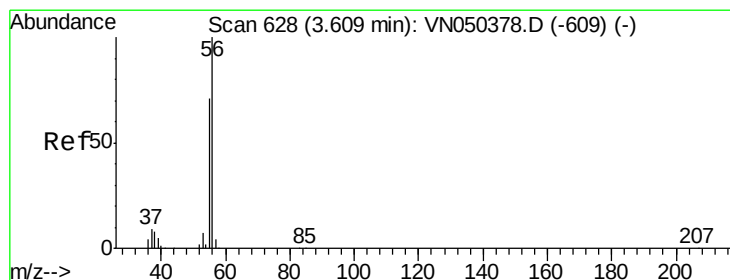
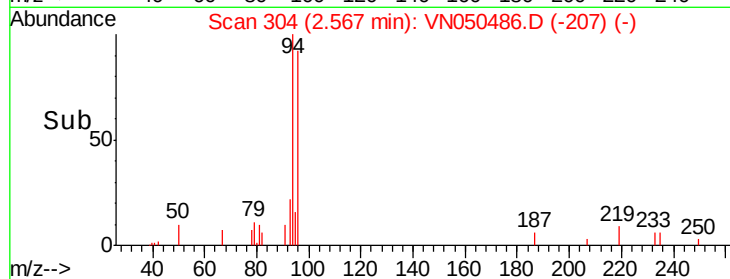
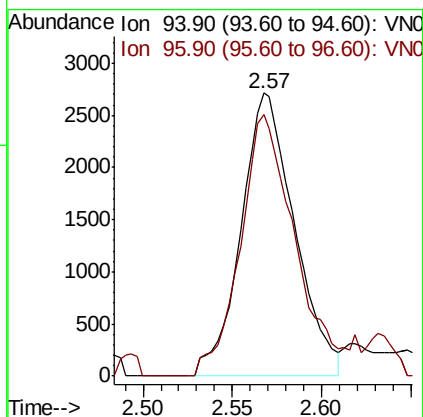
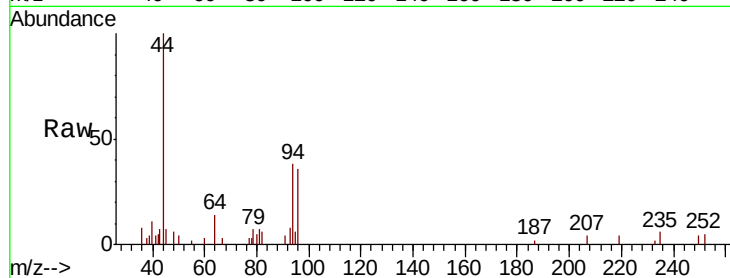




#5
Bromomethane
Concen: 1.18 ug/l
RT: 2.57 min Scan# 304
Delta R.T. 0.01 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

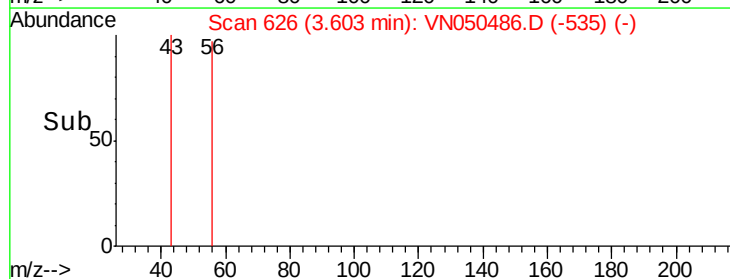
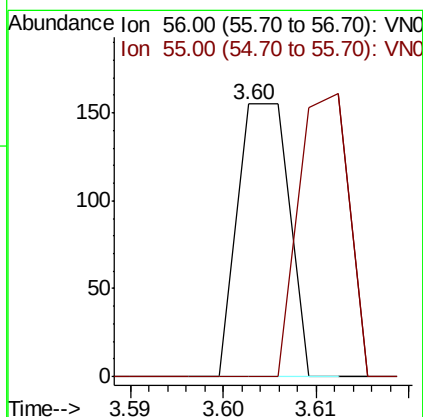
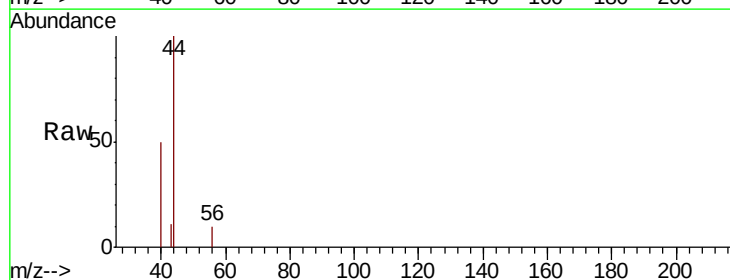
Instrument :
MSVOA_N
ClientSampled :

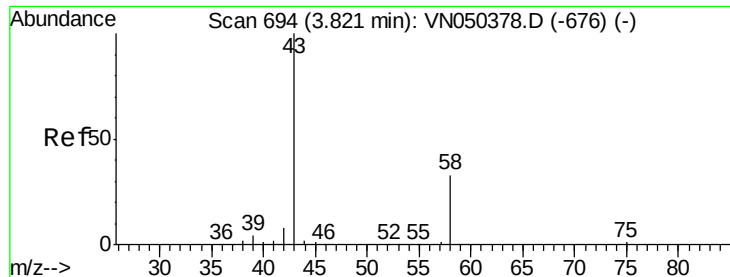
Tot Ion: 94 Resp: 5671
Ion Ratio Lower Upper
94 100
96 92.3 74.6 112.0



#13
Acrolein
Concen: 15.08 ug/l
RT: 3.60 min Scan# 626
Delta R.T. -0.01 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 101.7 55.8 83.6#





#16

Acetone

Concen: 7.35 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

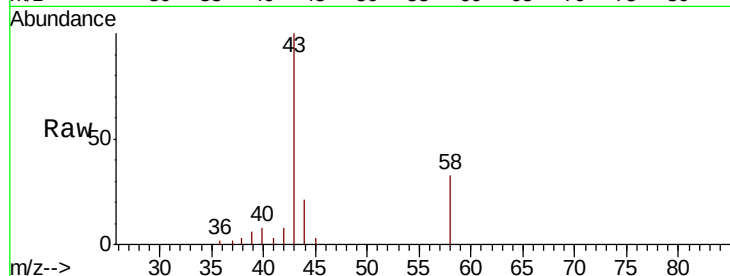
ClientSampleId :

Tot Ion: 43 Resp: 24546

Ion Ratio Lower Upper

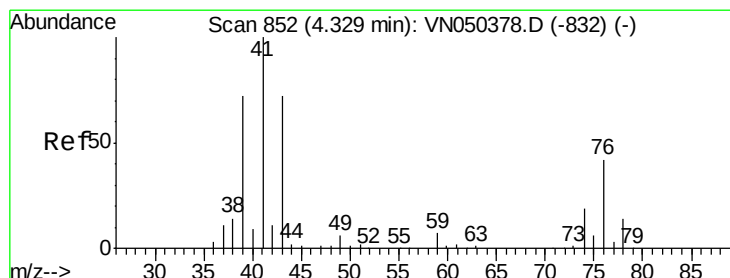
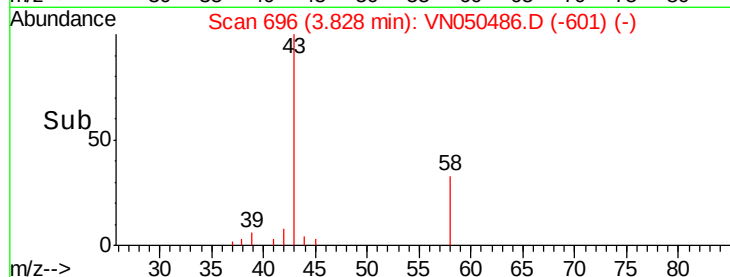
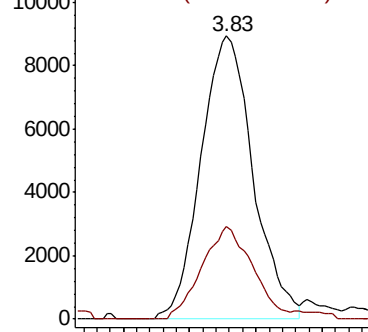
43 100

58 32.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.41 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050486.D

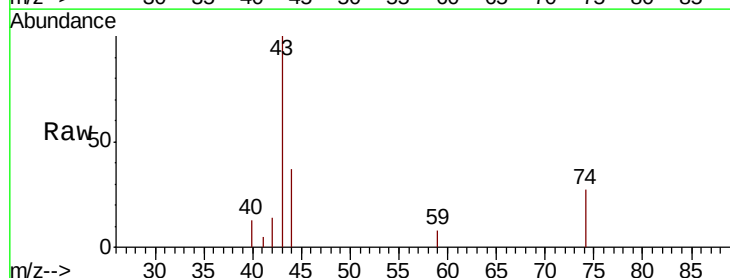
Acq: 9 Aug 2018 15:26

Tgt Ion: 43 Resp: 13268

Ion Ratio Lower Upper

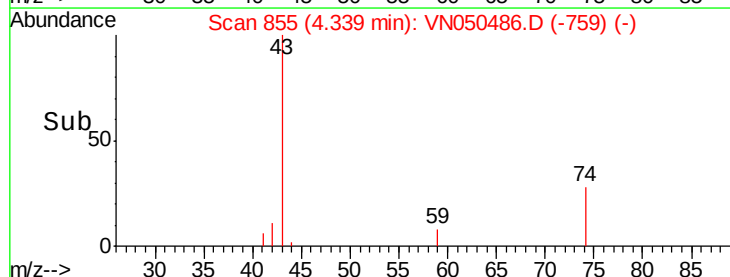
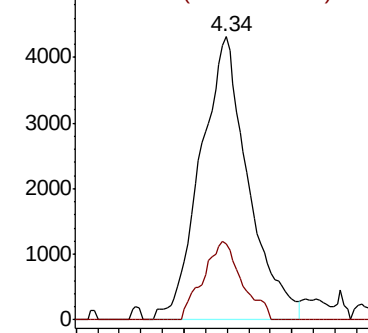
43 100

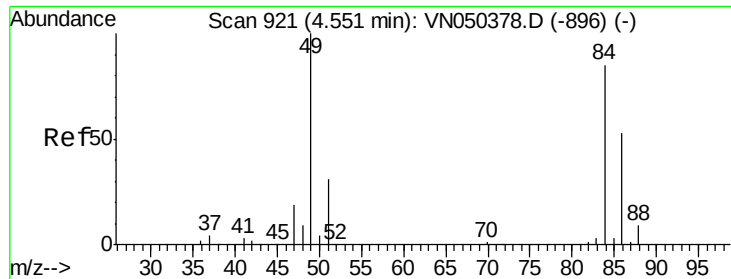
74 22.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

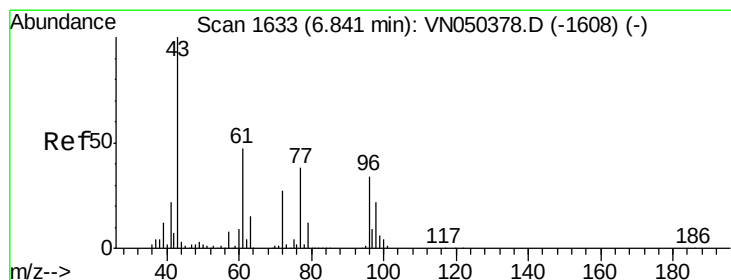
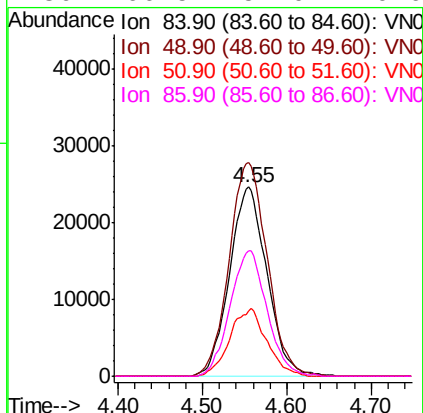
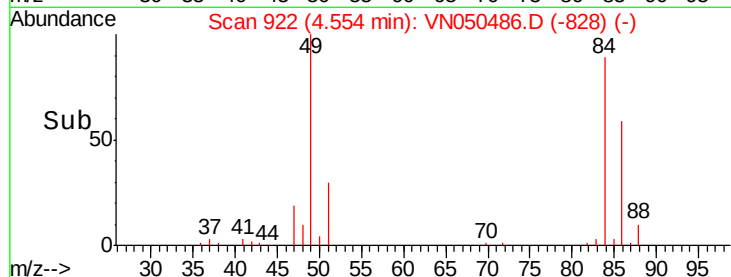
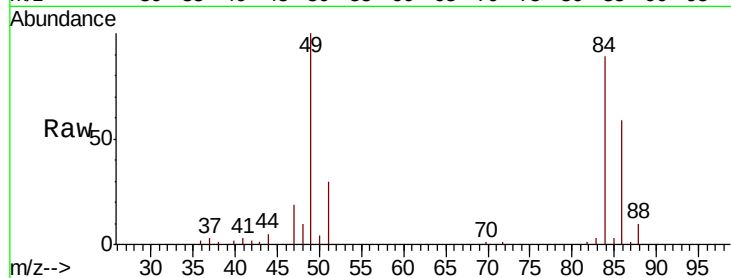




#20
Methvlene Chloride
Concen: 6.47 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

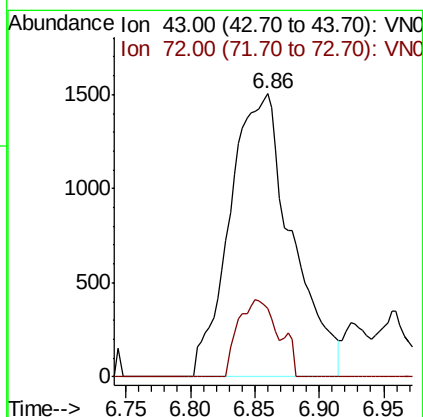
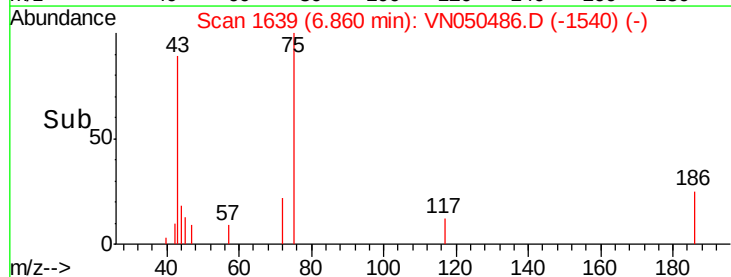
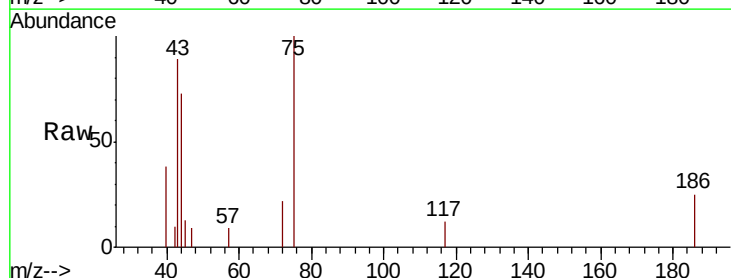
Instrument :
MSVOA_N
ClientSampled :

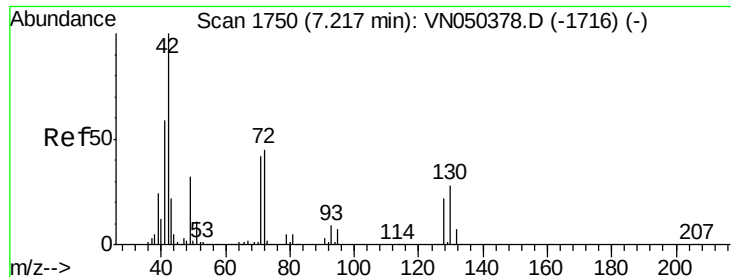
Tot Ion:	84	Resp:	76173
Ion	Ratio	Lower	Upper
84	100		
49	112.9	94.8	142.2
51	34.2	28.3	42.5
86	66.5	51.0	76.6



#25
2-Butanone
Concen: 0.95 ug/l
RT: 6.86 min Scan# 1639
Delta R.T. 0.02 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Tgt Ion:	43	Resp:	5033
Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

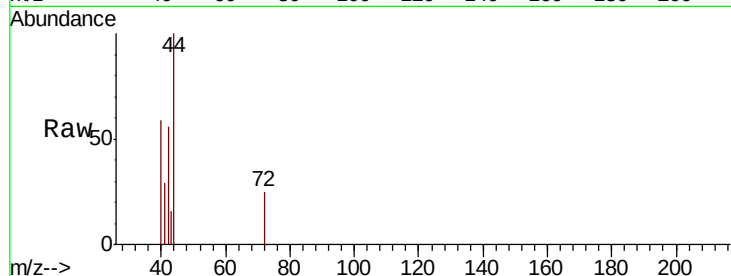
Tot Ion: 42 Resp: 1567

Ion Ratio Lower Upper

42 100

72 16.1 35.9 53.9#

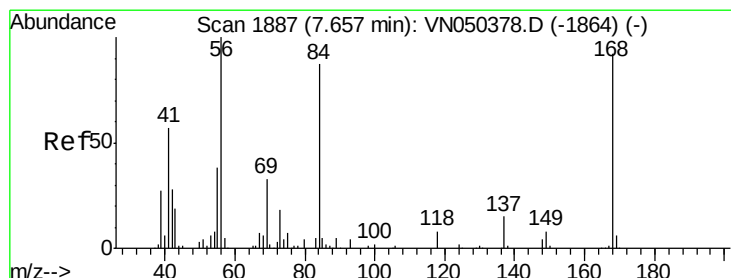
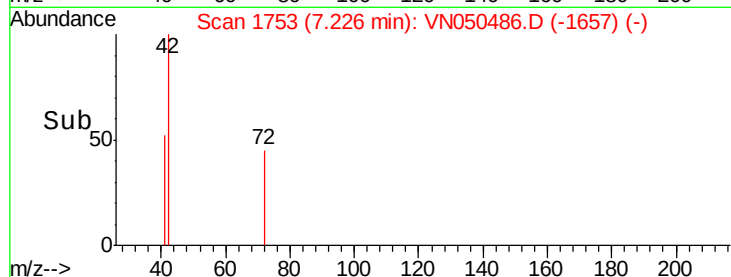
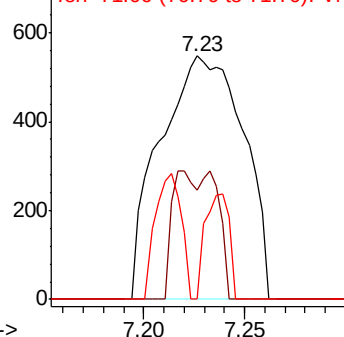
71 16.1 33.7 50.5#



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



#31

Cyclohexane

Concen: 0.29 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

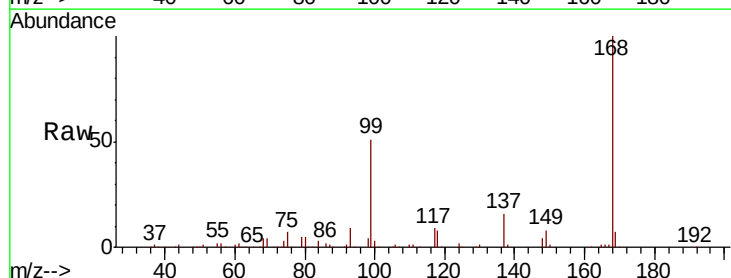
Tgt Ion: 56 Resp: 14035

Ion Ratio Lower Upper

56 100

69 193.7 26.2 39.4#

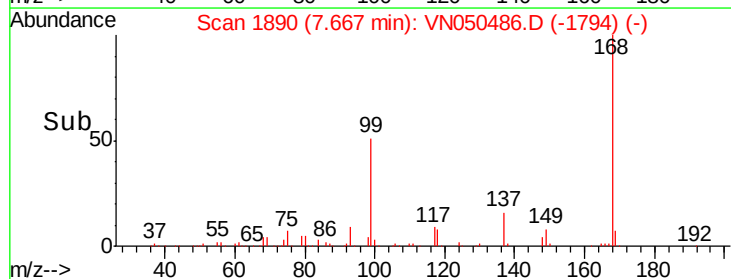
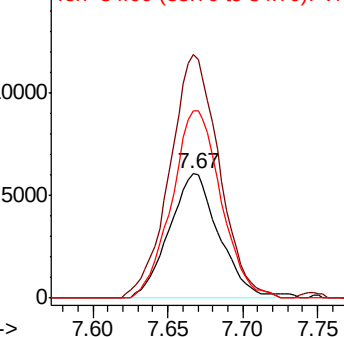
84 151.4 67.4 101.0#

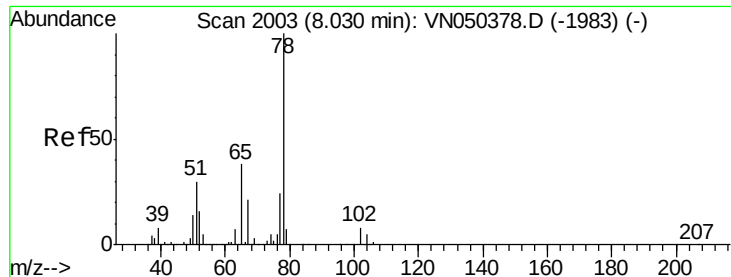


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

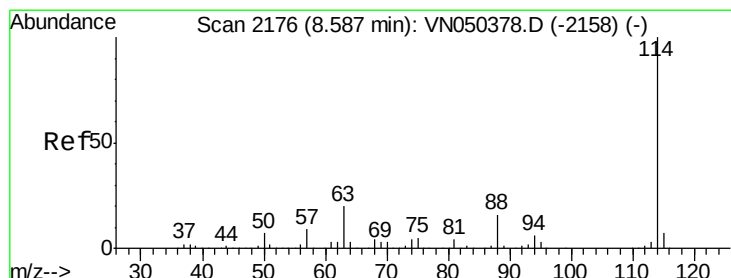
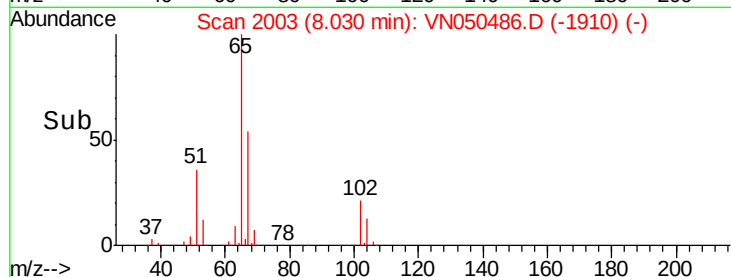
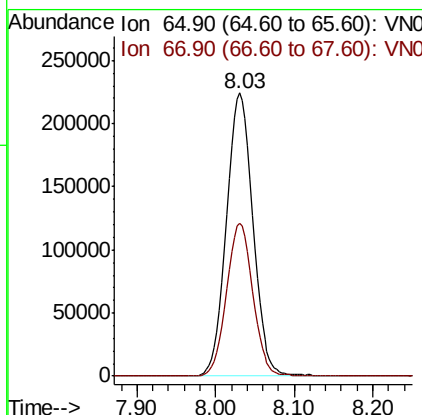
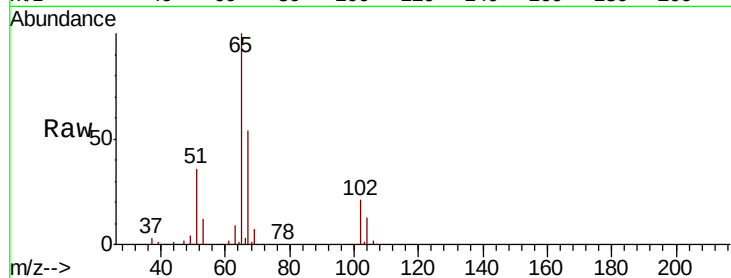




#33
 1,2-Dichloroethane-d4
 Concen: 48.97 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

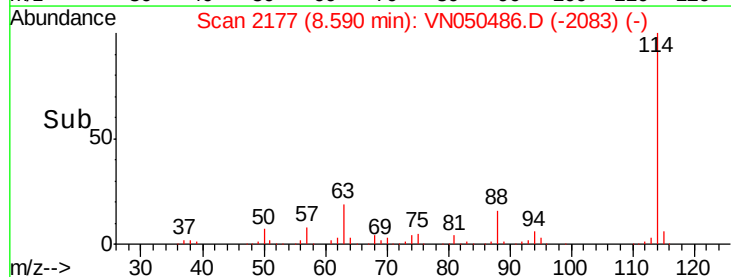
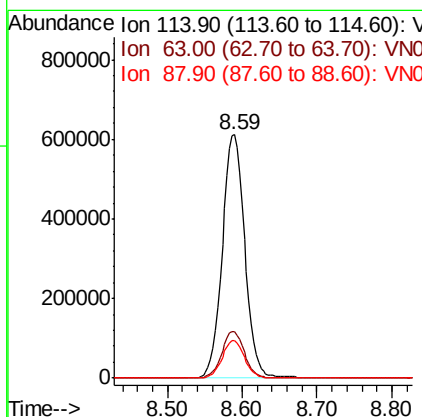
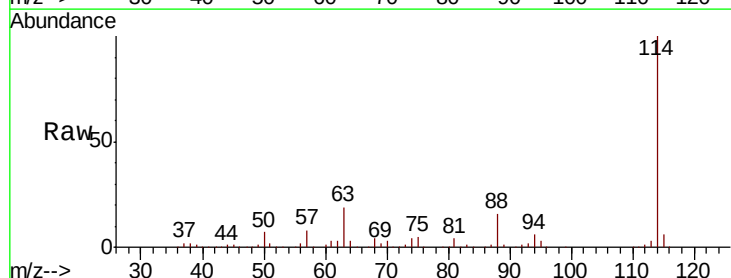
Instrument :
 MSVOA_N
 ClientSampled :

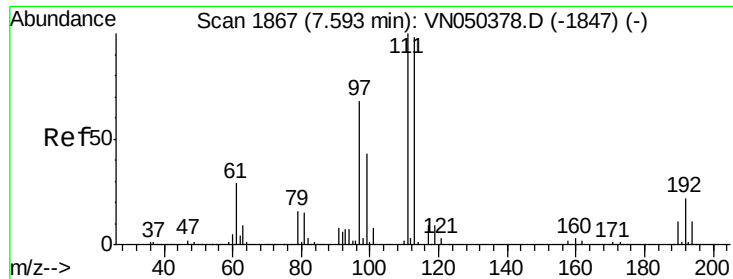
Tot Ion: 65 Resp: 523368
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

Tgt Ion: 114 Resp: 1272007
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 40.0
 88 15.5 0.0 31.2

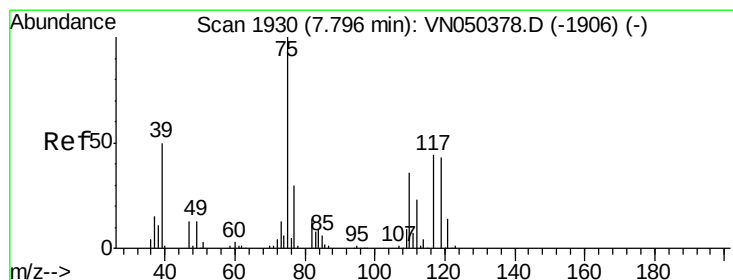
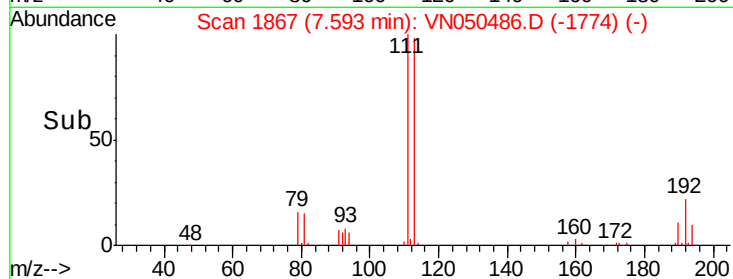
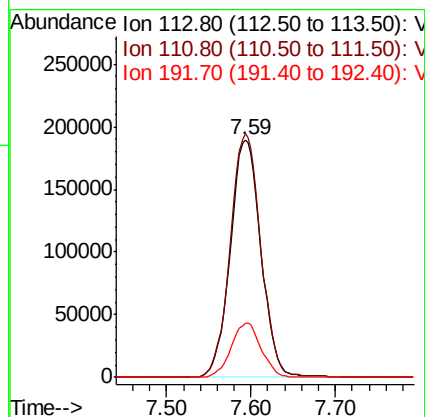
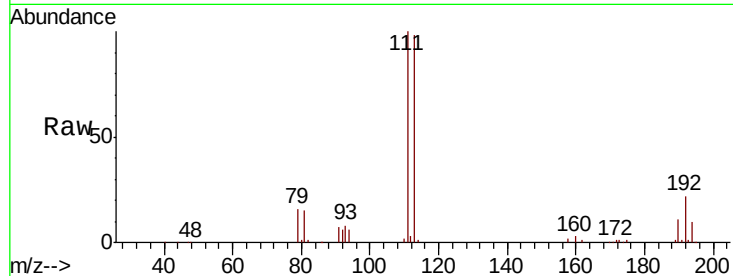




#35
 Dibromofluoromethane
 Concen: 46.93 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

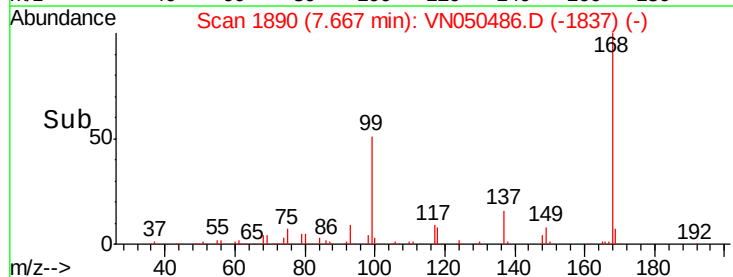
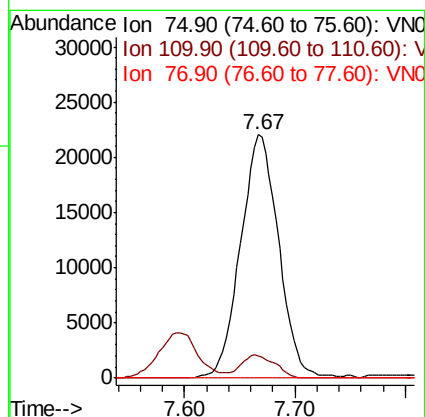
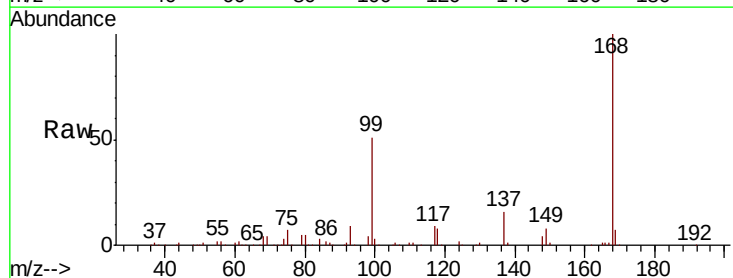
Instrument :
 MSVOA_N
 ClientSampleId :

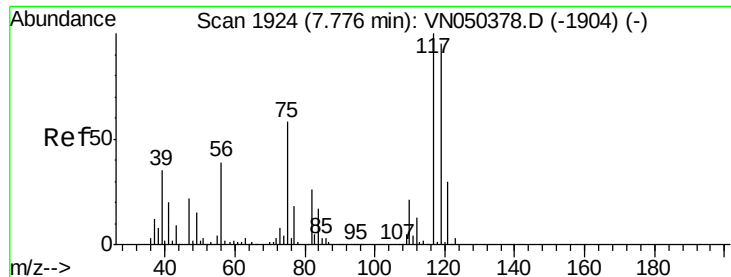
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.7	121.1
192	22.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.4	55.2#
77	0.0	25.3	37.9#

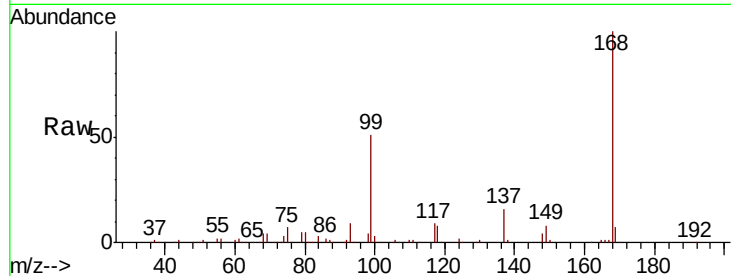




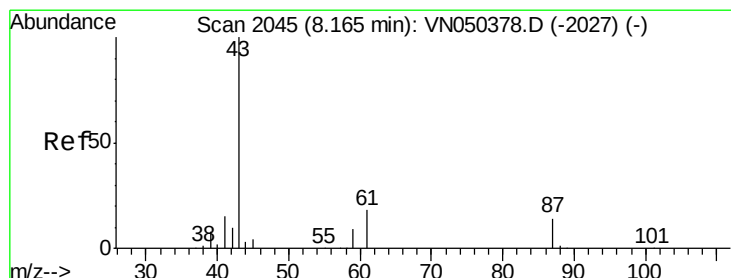
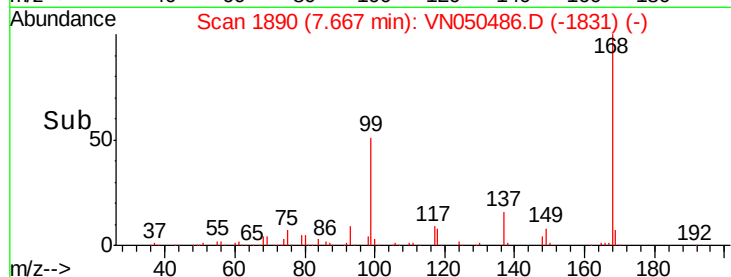
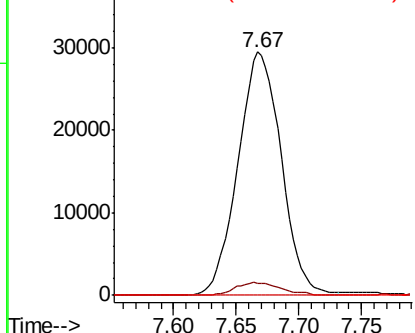
#38
Carbon Tetrachloride
Concen: 4.86 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 70876
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 23.9 35.9#

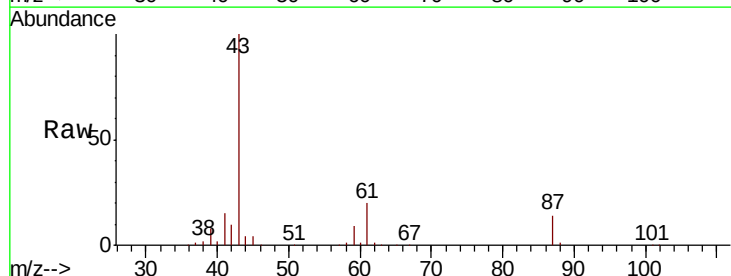


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

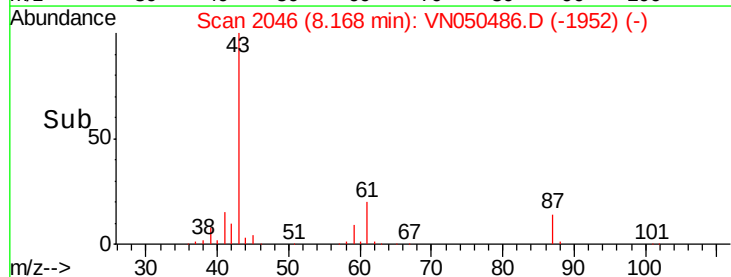
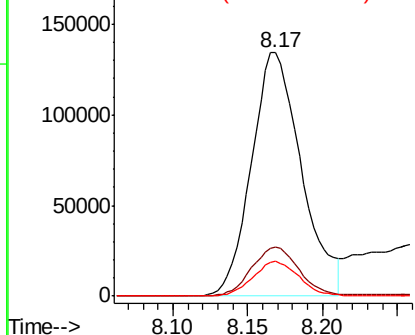


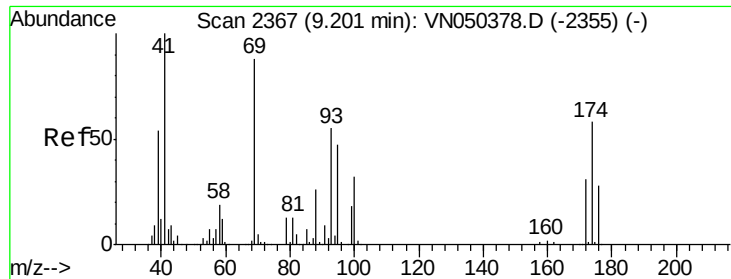
#43
Isopropyl Acetate
Concen: 17.97 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Tgt Ion: 43 Resp: 312224
Ion Ratio Lower Upper
43 100
61 19.4 15.8 23.6
87 13.3 10.3 15.5



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

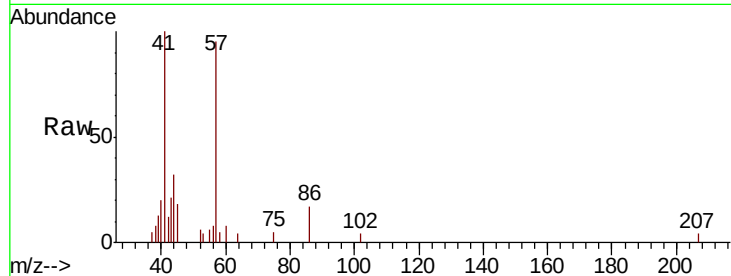




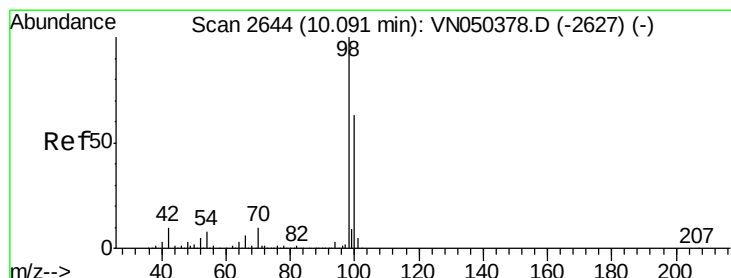
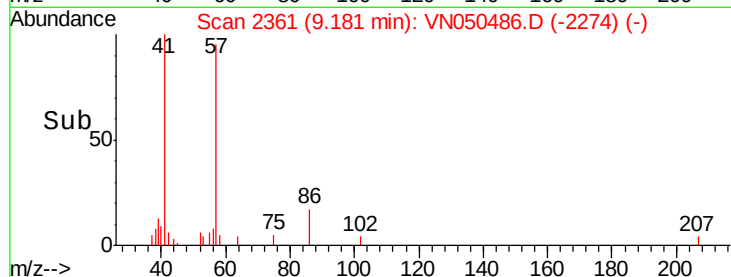
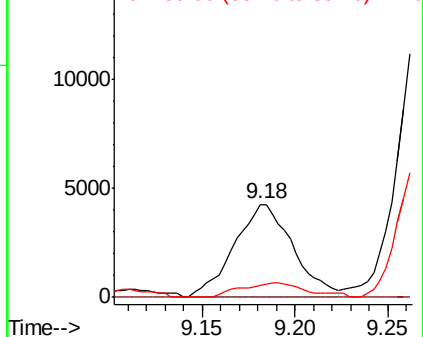
#48
Methvl methacrylate
Concen: 1.08 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 9372
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.1 43.9 65.9#

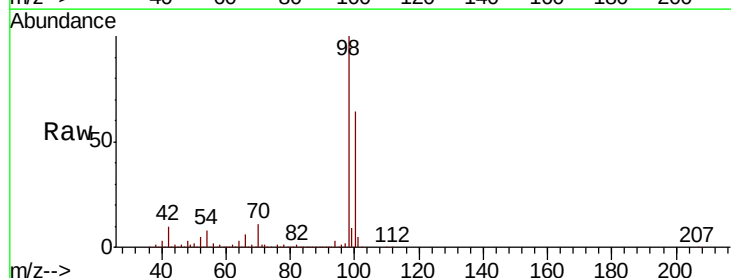


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

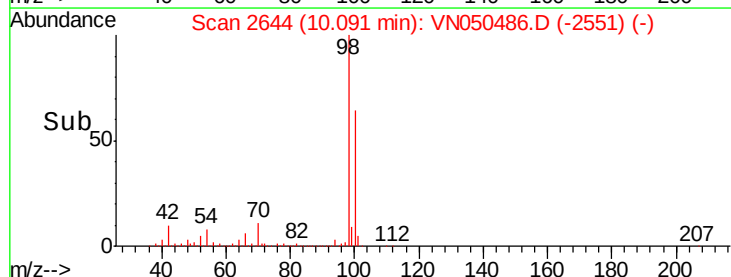
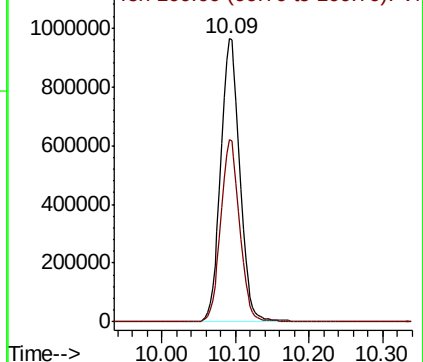


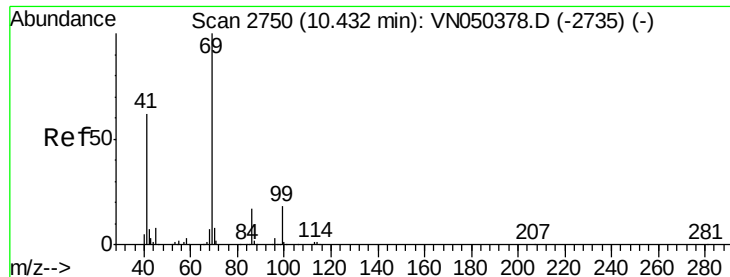
#50
Toluene-d8
Concen: 45.47 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050486.D
Acq: 9 Aug 2018 15:26

Tgt Ion: 98 Resp: 1744753
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



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





#56

Ethyl methacrylate

Concen: 1.75 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.21 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampled :

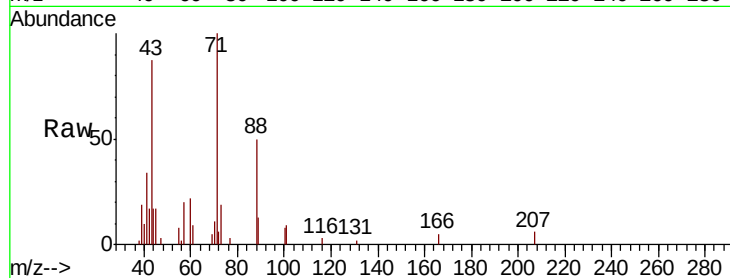
Tot Ion: 69 Resp: 543

Ion Ratio Lower Upper

69 100

41 1049.4 51.0 76.4#

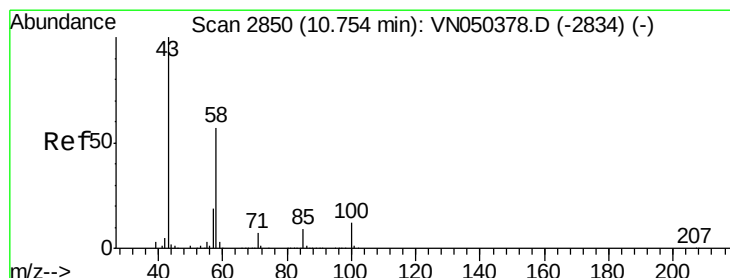
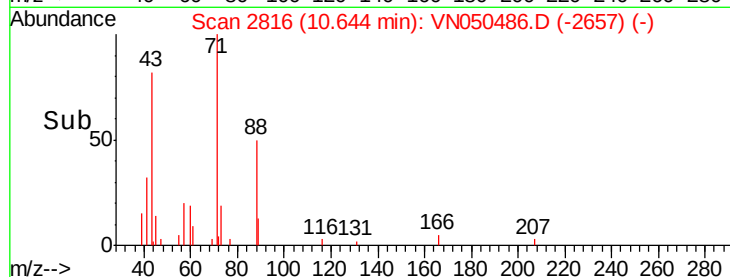
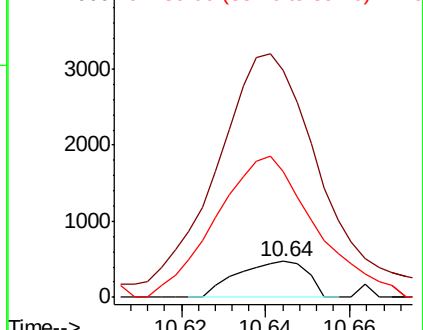
39 558.4 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 2.73 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050486.D

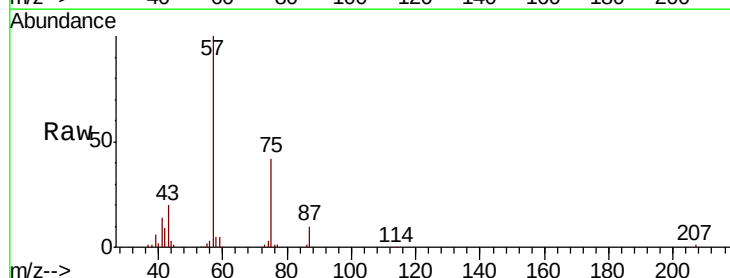
Acq: 9 Aug 2018 15:26

Tgt Ion: 43 Resp: 23828

Ion Ratio Lower Upper

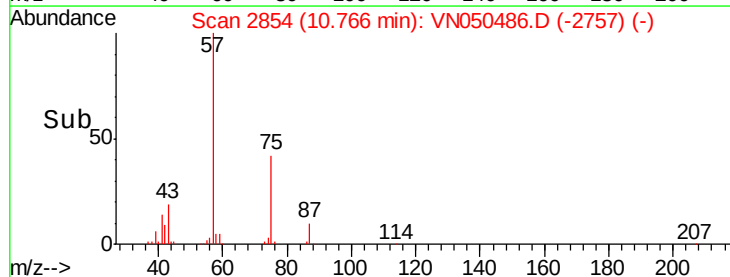
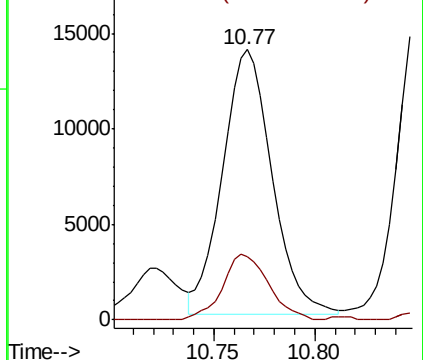
43 100

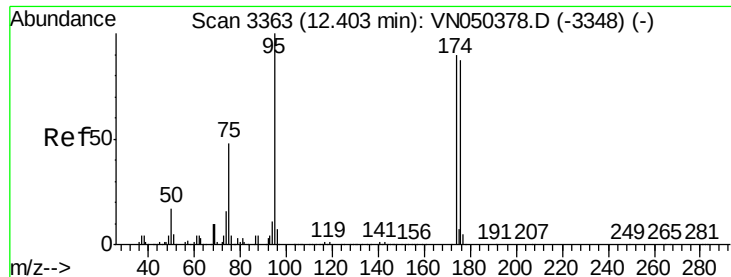
58 23.1 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

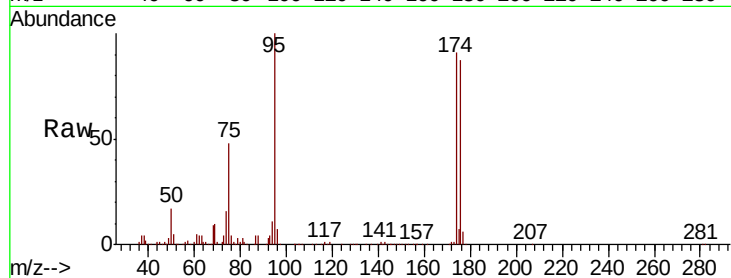
Tot Ion: 95 Resp: 504302

Ion Ratio Lower Upper

95 100

174 91.0 0.0 178.2

176 87.1 0.0 173.4



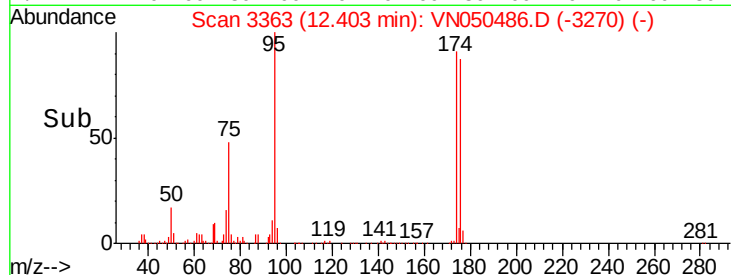
Abundance Ion 94.90 (94.60 to 95.60): VN050486.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN050486.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN050486.D (-3270) (-)

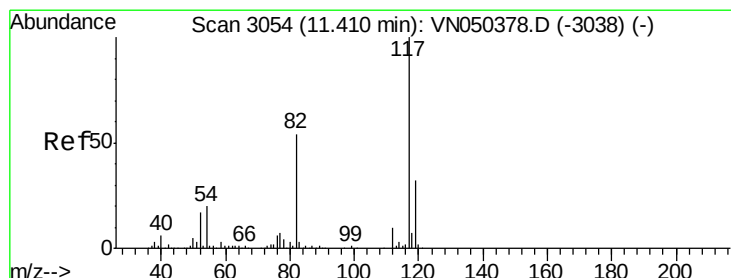
Time-->

12.30 12.40 12.50



Time-->

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

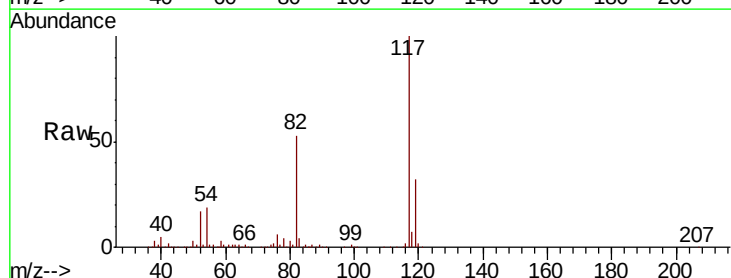
Tgt Ion: 117 Resp: 1097486

Ion Ratio Lower Upper

117 100

82 53.0 43.7 65.5

119 32.0 26.1 39.1



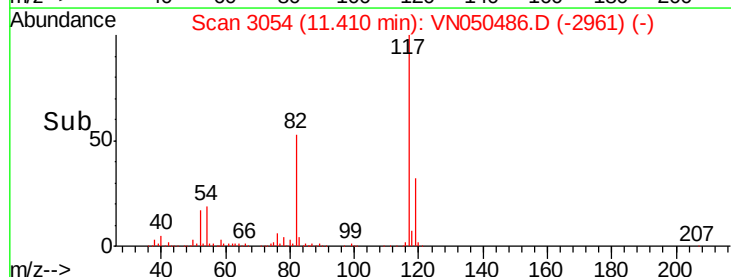
Abundance Ion 116.90 (116.60 to 117.60): VN050486.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN050486.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN050486.D (-2961) (-)

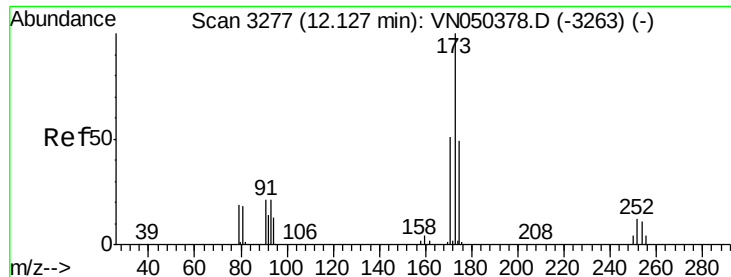
Time-->

11.30 11.40 11.50



Time-->

11.30 11.40 11.50



#71

Bromoform

Concen: 0.55 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampled :

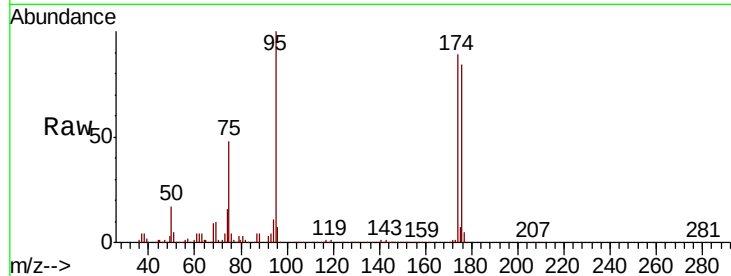
Tot Ion:173 Resp: 4011

Ion Ratio Lower Upper

173 100

175 703.9 24.1 72.2#

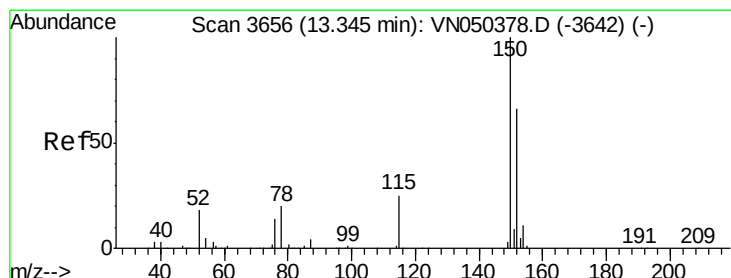
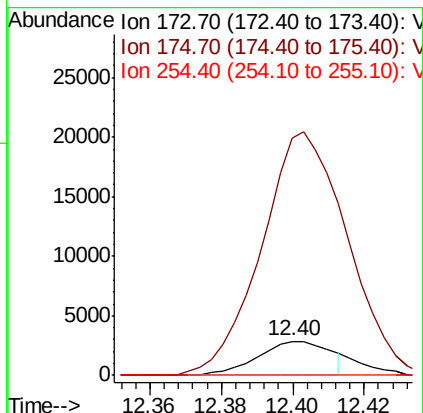
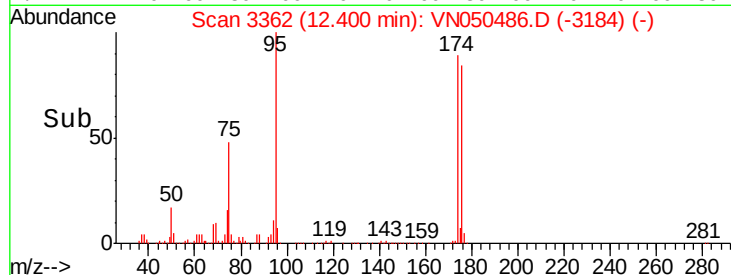
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

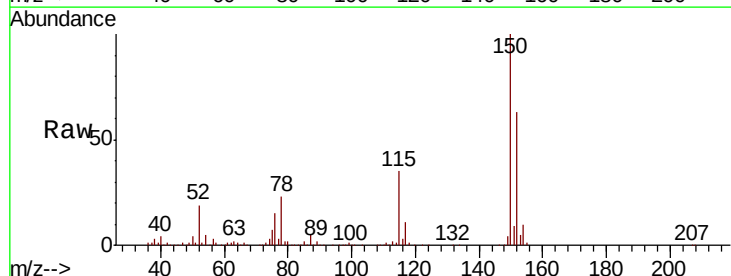
Tgt Ion:152 Resp: 403637

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.3

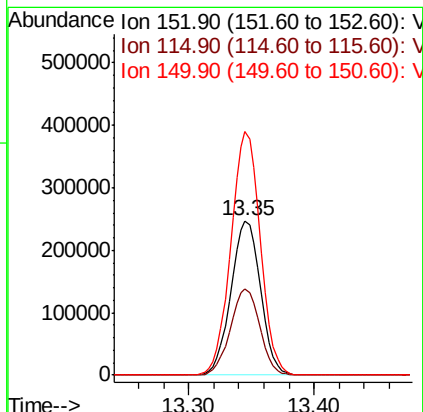
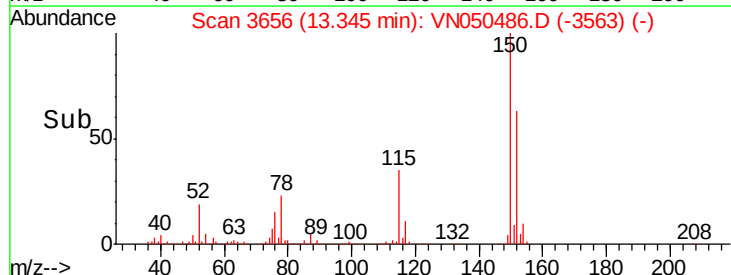
150 156.6 0.0 348.6

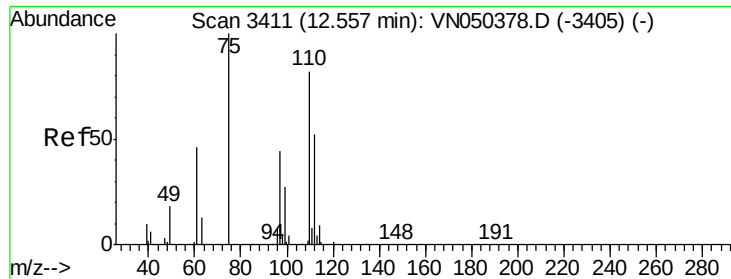


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

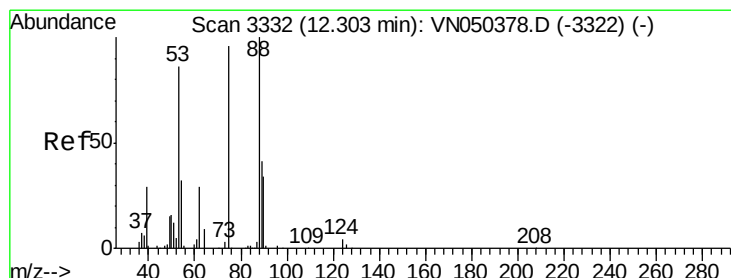
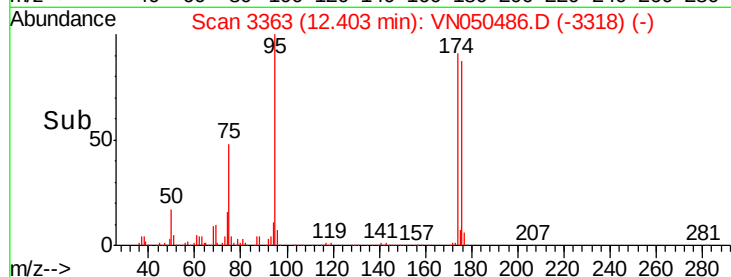
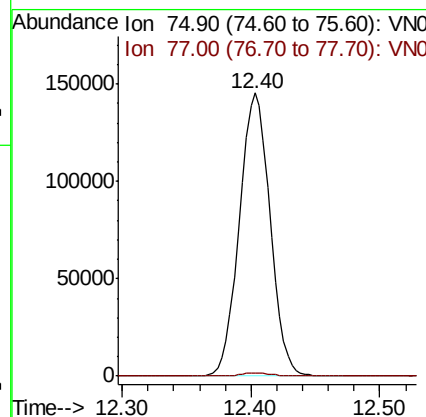
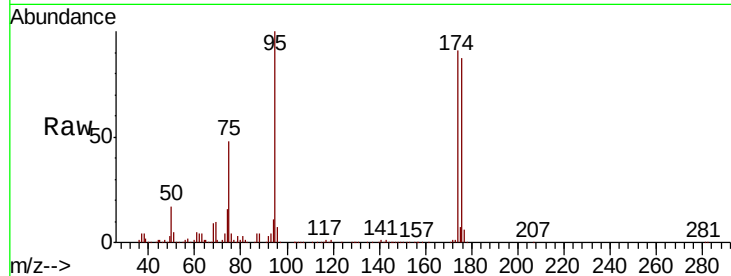




#76
 1,2,3-Trichloropropane
 Concen: 32.95 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

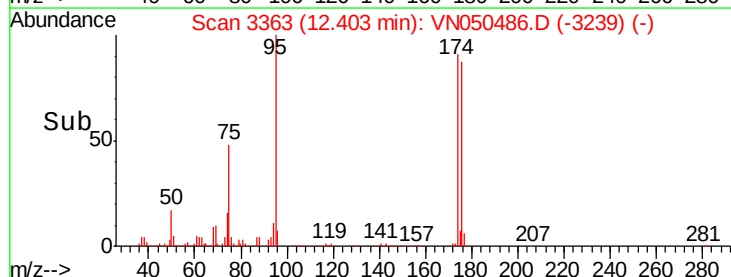
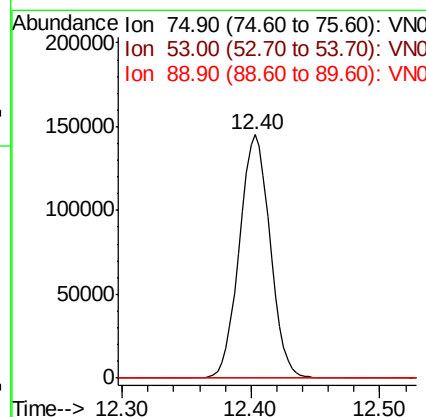
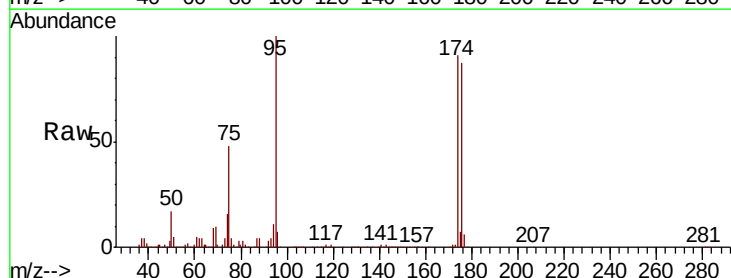
Instrument :
 MSVOA_N
 ClientSampleId :

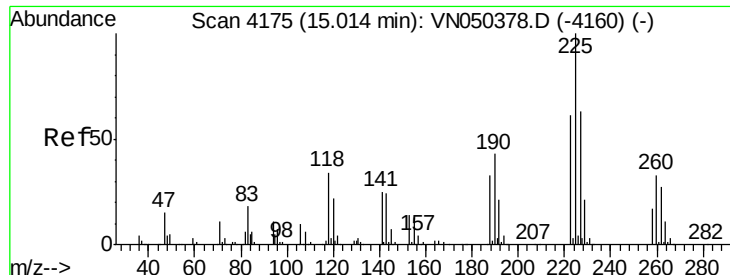
Tot Ion: 75 Resp: 240762
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 115.78 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050486.D
 Acq: 9 Aug 2018 15:26

Tgt Ion: 75 Resp: 240762
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.5 110.3#
 89 0.0 36.0 54.0#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4173

Delta R.T. -0.01 min

Lab File: VN050486.D

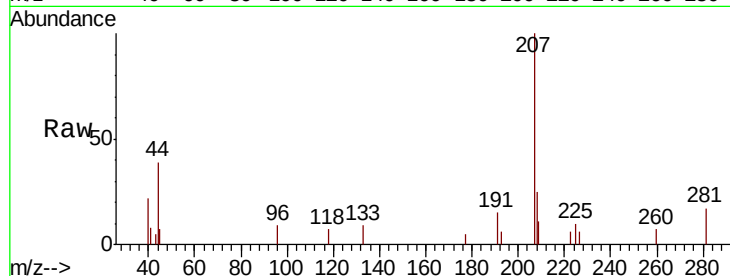
Acq: 9 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampled :

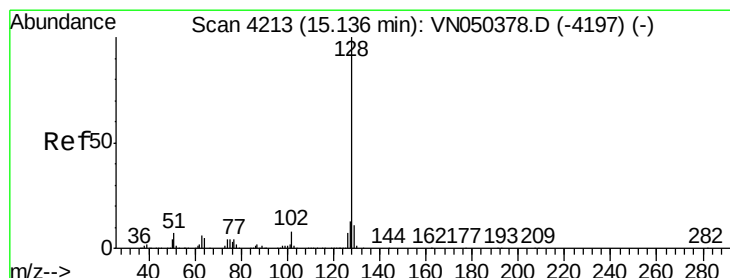
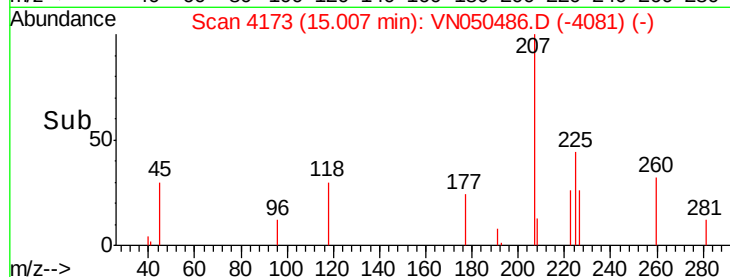
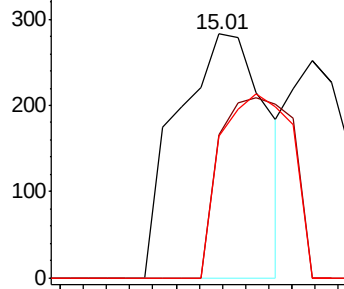
Tot Ion:	225	Resp:	300
Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.4	94.2
227	61.0	32.1	96.5



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: 3.75 ug/l

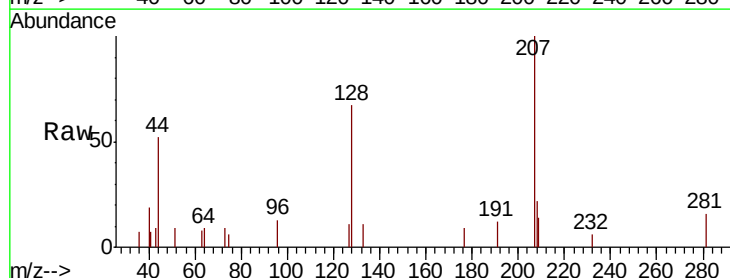
RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050486.D

Acq: 9 Aug 2018 15:26

Tgt Ion:	128	Resp:	2786
Ion	Ratio	Lower	Upper
128	100		
127	11.2	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

