

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050491.D
 Acq On : 9 Aug 2018 17:30
 Operator : MD\SY
 Sample : J4275-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 04:05:21 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	771051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1253998	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1085553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	436000	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	516448	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
35) Dibromofluoromethane	7.59	113	471117	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	
50) Toluene-d8	10.09	98	1697908	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	
62) 4-Bromofluorobenzene	12.40	95	507642	39.37	ug/l	0.00
Spiked Amount			Recovery	=	78.74%	

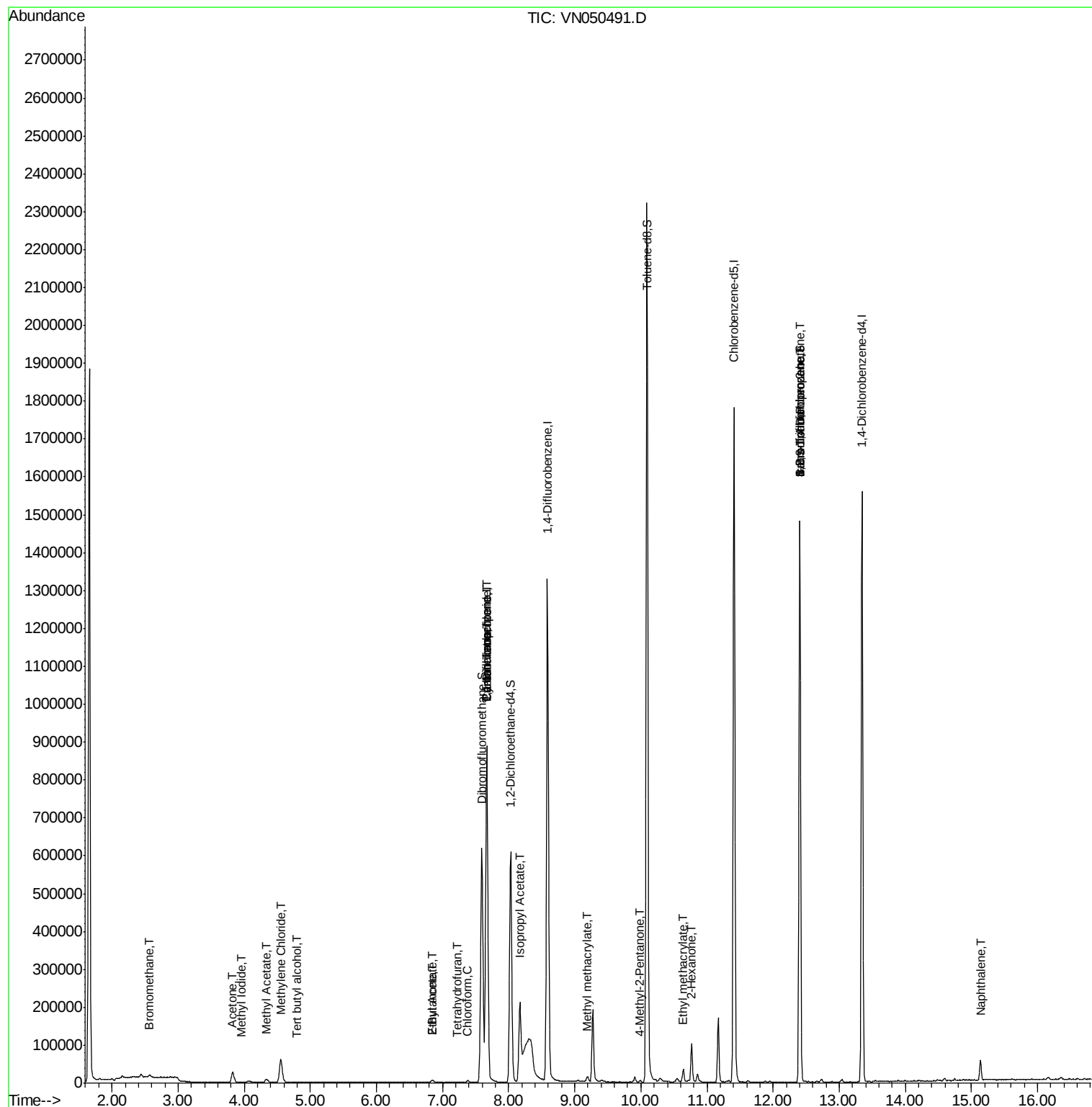
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3058	Below Cal	#	84
5) Bromomethane	2.57	94	4563	1.02	ug/l	92
10) Methyl Iodide	3.96	142	1228	0.32	ug/l	# 91
11) Tert butyl alcohol	4.79	59	568	0.69	ug/l	# 72
16) Acetone	3.82	43	45985	14.63	ug/l	97
18) Methyl Acetate	4.34	43	15923	1.81	ug/l	# 74
20) Methylene Chloride	4.55	84	48083	3.68	ug/l	97
25) 2-Butanone	6.85	43	6980	1.37	ug/l	# 85
29) Tetrahydrofuran	7.22	42	1321	0.48	ug/l	# 36
30) Chloroform	7.38	83	5961	0.36	ug/l	90
31) Cyclohexane	7.67	56	13672	0.30	ug/l	# 1
36) 1,1-Dichloropropene	7.66	75	53062	3.85	ug/l	# 48
37) Ethyl Acetate	6.85	43	6980	0.70	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	69016	4.80	ug/l	# 16
43) Isopropyl Acetate	8.17	43	262396	15.32	ug/l	98
48) Methyl methacrylate	9.18	41	8974	1.05	ug/l	# 20
51) 4-Methyl-2-Pentanone	9.99	43	2671	0.22	ug/l	97
56) Ethyl methacrylate	10.63	69	317	1.73	ug/l	# 1
59) 2-Hexanone	10.77	43	15060	1.75	ug/l	# 57
71) Bromoform	12.40	173	4315	0.60	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	238979	30.28	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	238979	106.39	ug/l	# 13
95) Naphthalene	15.14	128	44544	5.58	ug/l	98

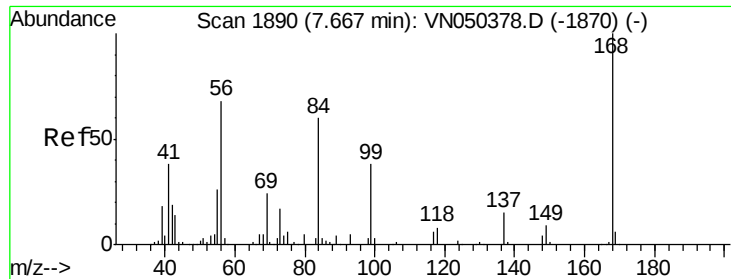
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
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: VN050491.D

Acq: 9 Aug 2018 17:30

Instrument :

MSVOA_N

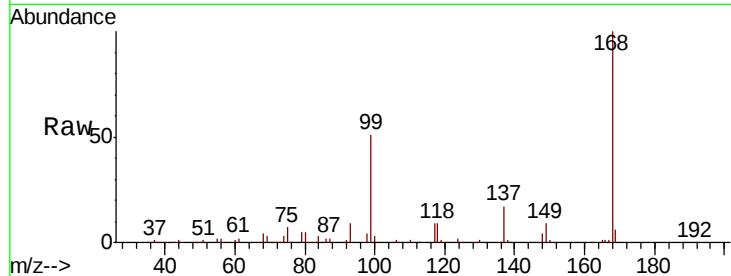
ClientSampleId :

Tot Ion:168 Resp: 771051

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

300000

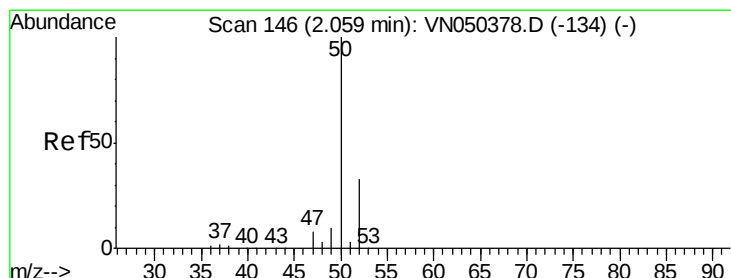
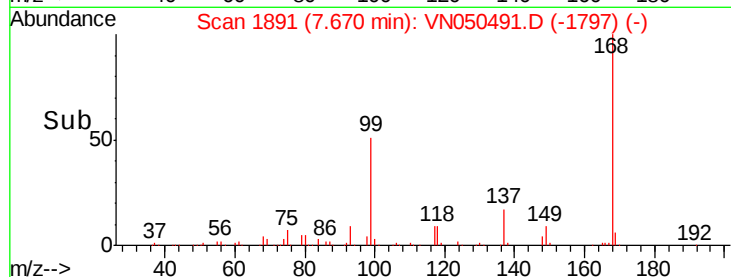
200000

100000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050491.D

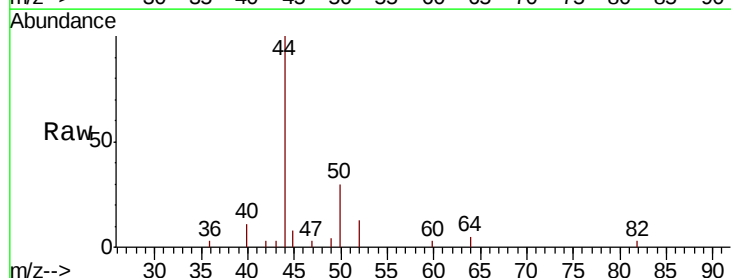
Acq: 9 Aug 2018 17:30

Tgt Ion: 50 Resp: 3058

Ion Ratio Lower Upper

50 100

52 41.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2.06

2000

1500

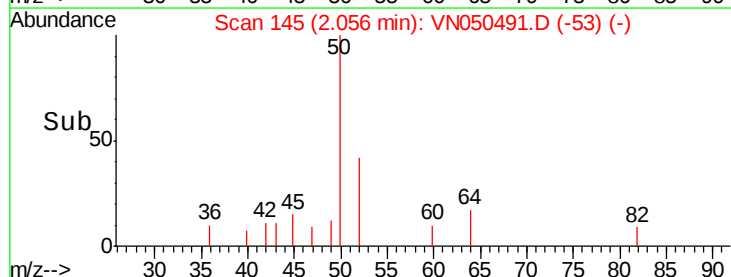
1000

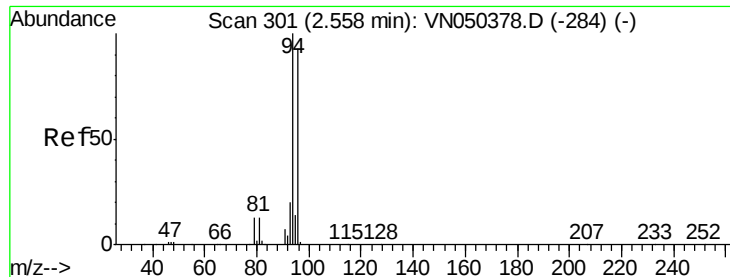
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: 1.02 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050491.D

Acq: 9 Aug 2018 17:30

Instrument :

MSVOA_N

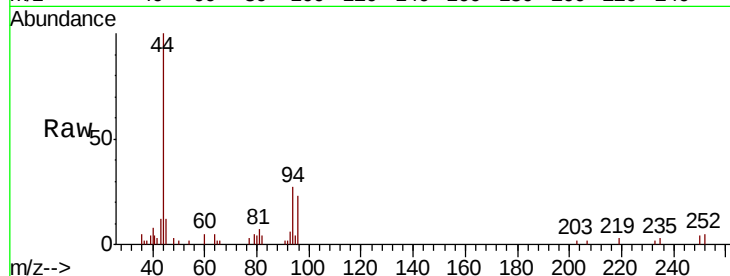
ClientSampleId :

Tot Ion: 94 Resp: 4563

Ion Ratio Lower Upper

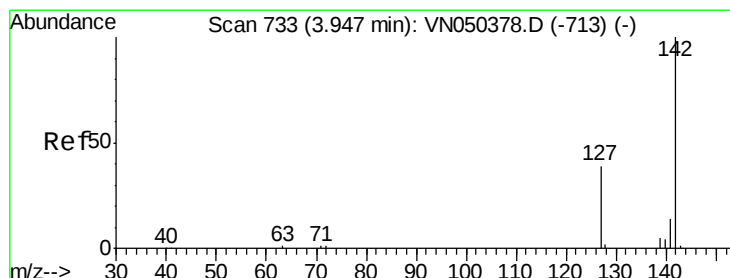
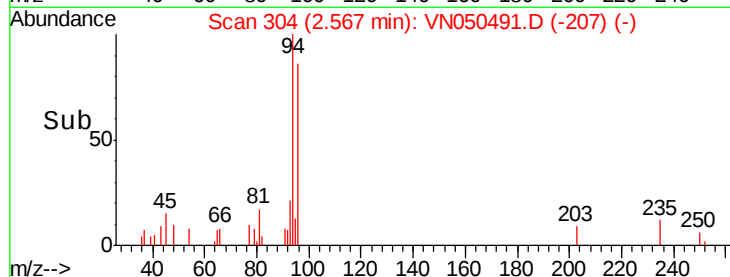
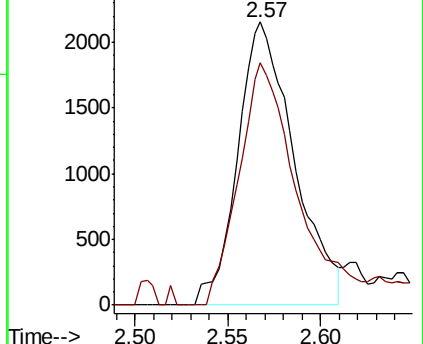
94 100

96 85.7 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)



#10

Methyl Iodide

Concen: 0.32 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.02 min

Lab File: VN050491.D

Acq: 9 Aug 2018 17:30

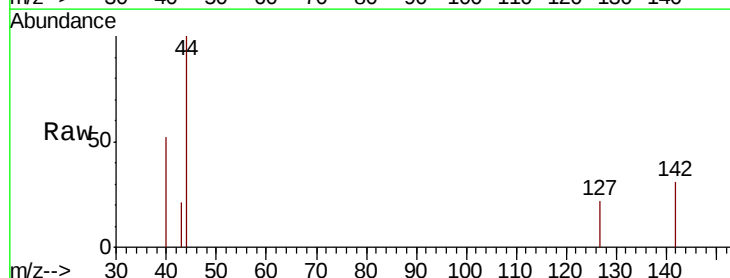
Tgt Ion: 142 Resp: 1228

Ion Ratio Lower Upper

142 100

127 41.9 33.4 50.2

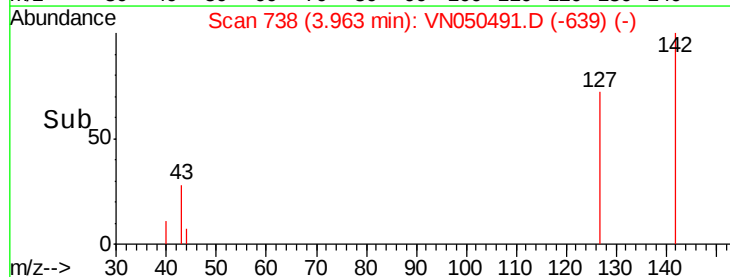
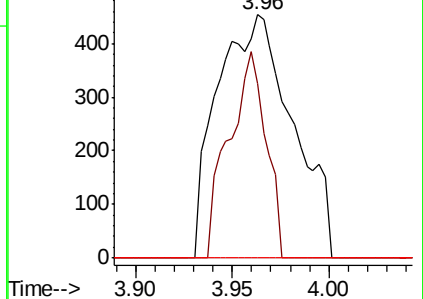
141 0.0 11.6 17.4#

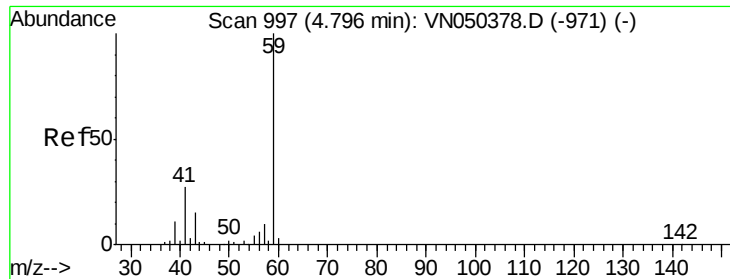


Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)

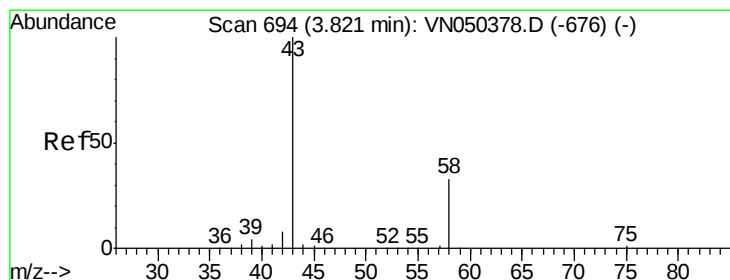
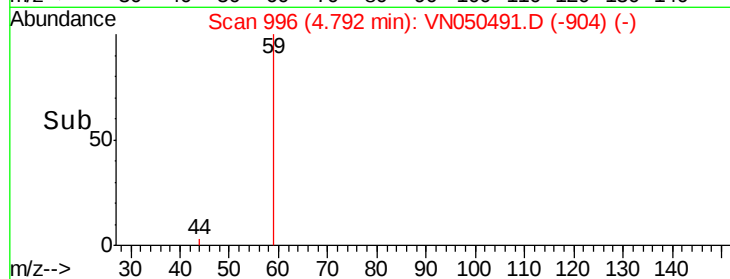
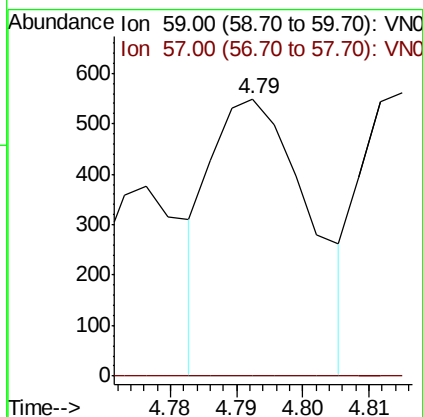
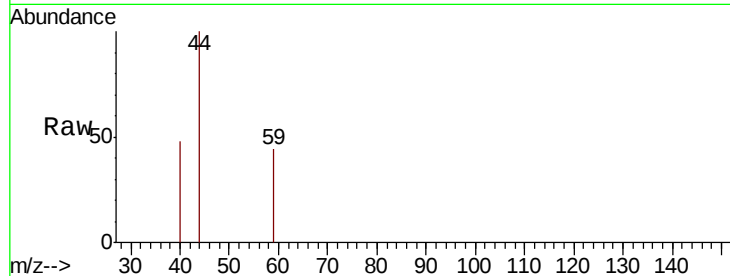




#11
Tert butyl alcohol
Concen: 0.69 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

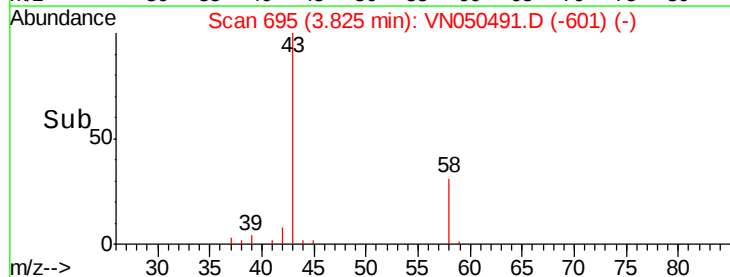
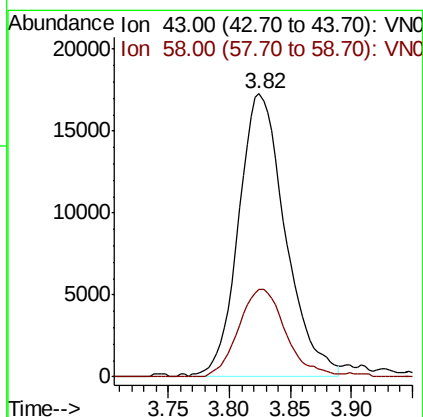
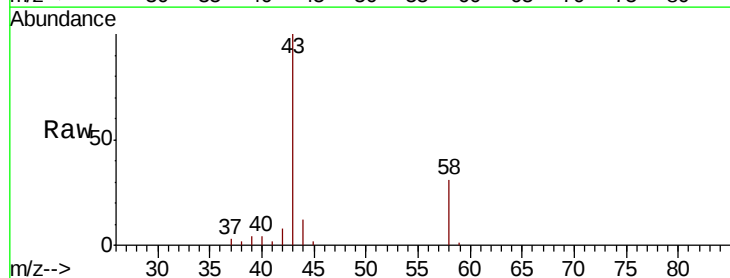
Instrument :
MSVOA_N
ClientSampled :

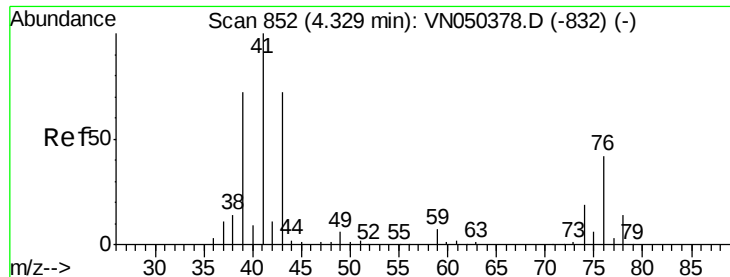
Tot Ion: 59 Resp: 568
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 14.63 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 43 Resp: 45985
Ion Ratio Lower Upper
43 100
58 30.9 25.8 38.8

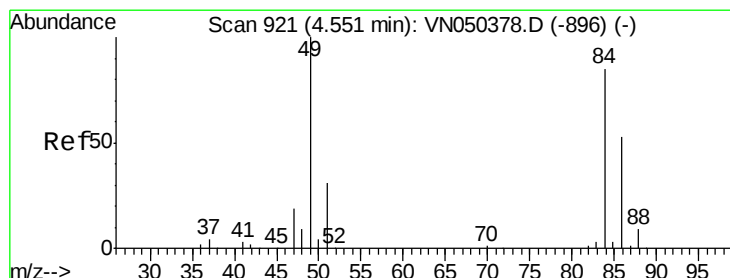
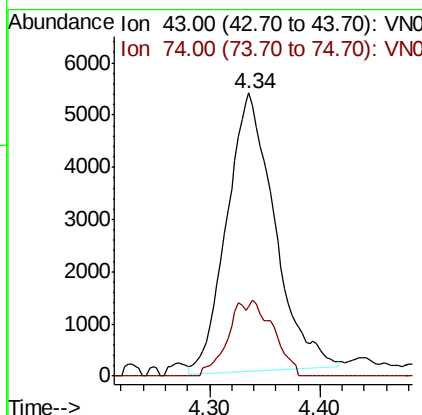
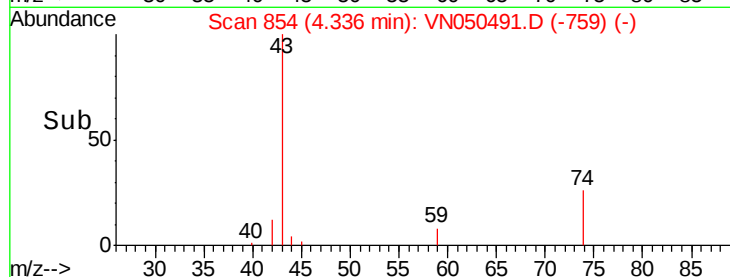
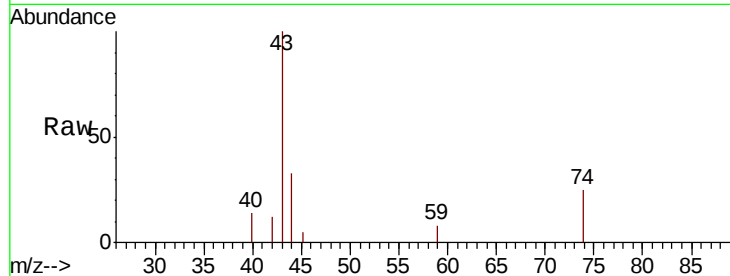




#18
Methyl Acetate
Concen: 1.81 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

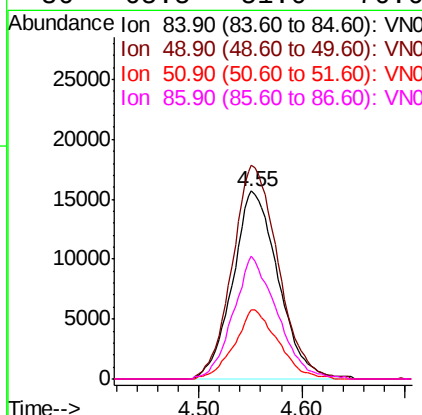
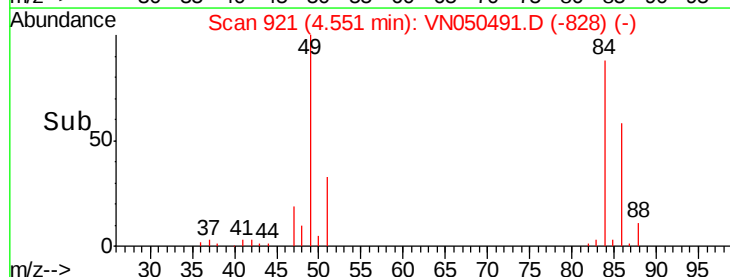
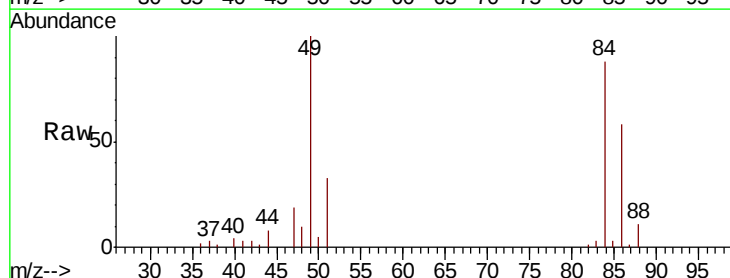
Instrument :
MSVOA_N
ClientSampleId :

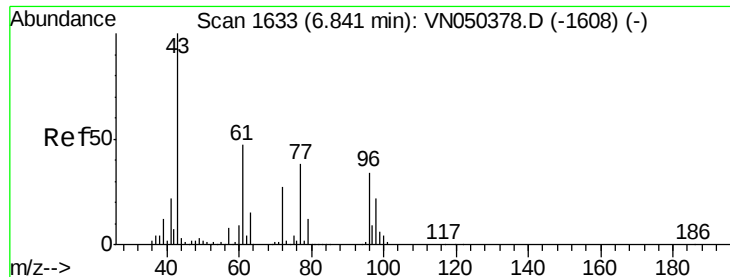
Tot Ion: 43 Resp: 15923
Ion Ratio Lower Upper
43 100
74 11.0 19.2 28.8#



#20
Methylene Chloride
Concen: 3.68 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 84 Resp: 48083
Ion Ratio Lower Upper
84 100
49 113.9 94.8 142.2
51 37.1 28.3 42.5
86 65.5 51.0 76.6

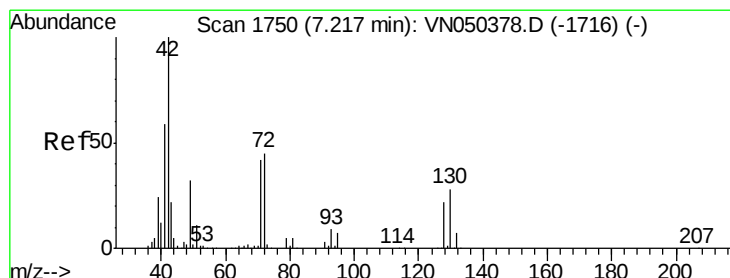
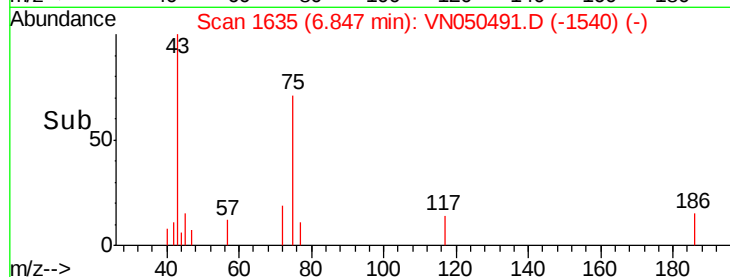
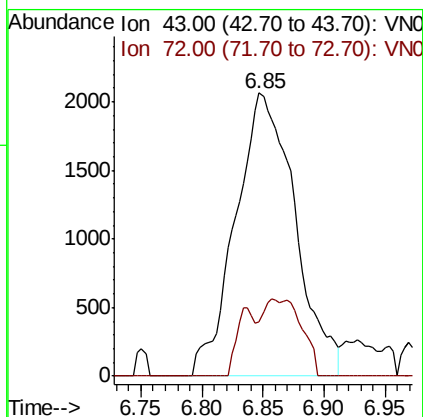
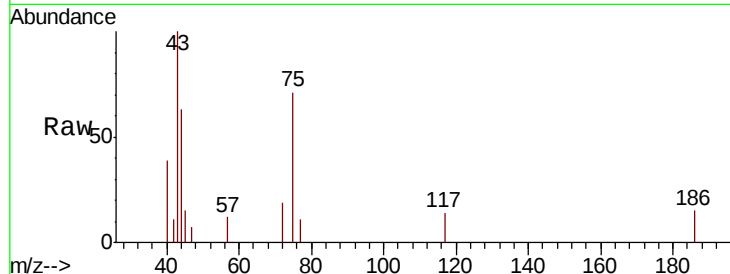




#25
2-Butanone
Concen: 1.37 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

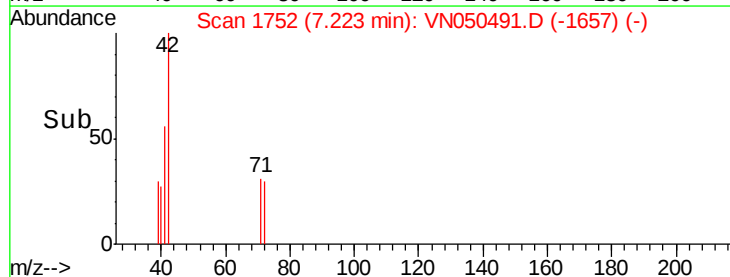
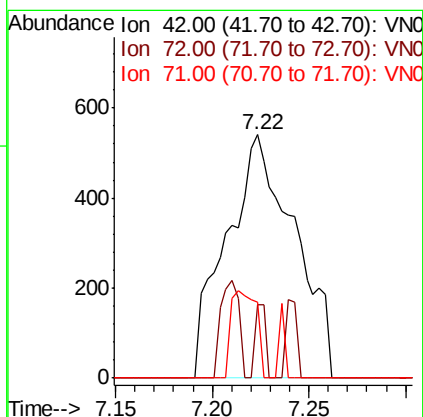
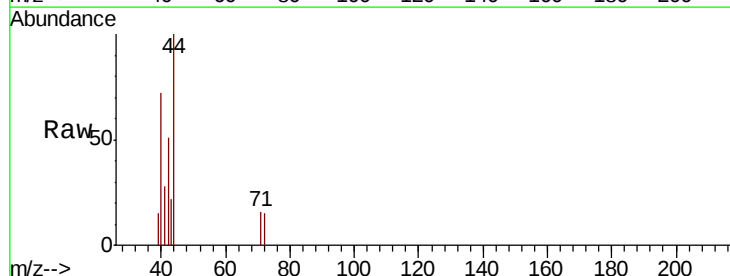
Instrument :
MSVOA_N
ClientSampled :

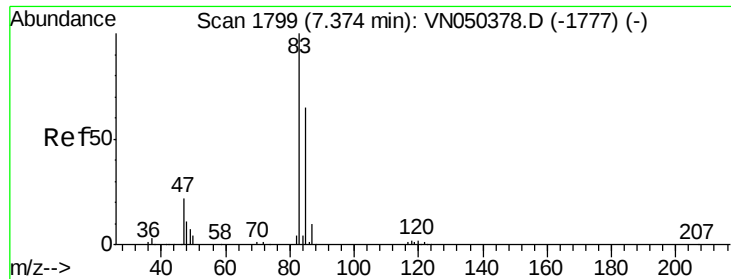
Tot Ion: 43 Resp: 6980
Ion Ratio Lower Upper
43 100
72 19.1 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.48 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 42 Resp: 1321
Ion Ratio Lower Upper
42 100
72 4.8 35.9 53.9#
71 0.0 33.7 50.5#

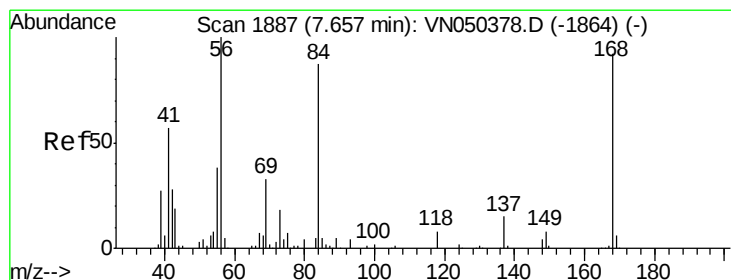
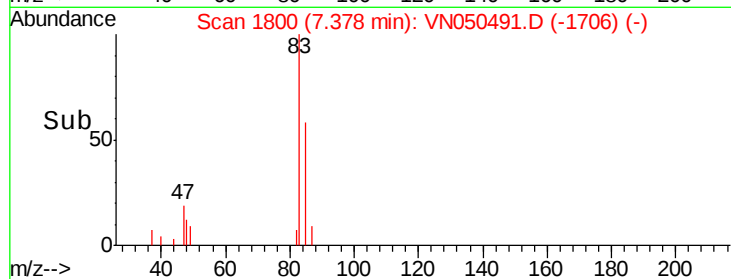
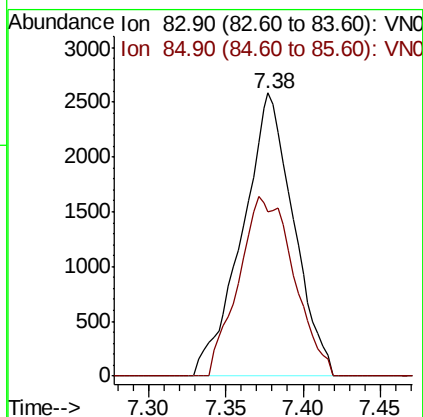
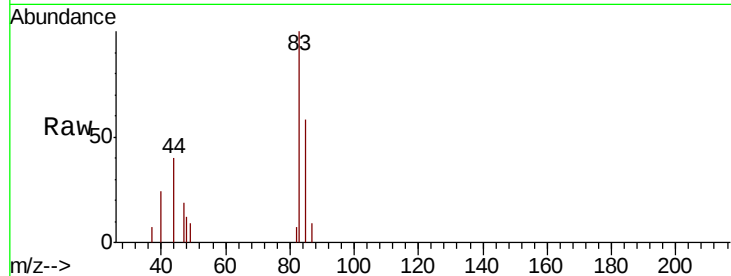




#30
Chloroform
Concen: 0.36 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

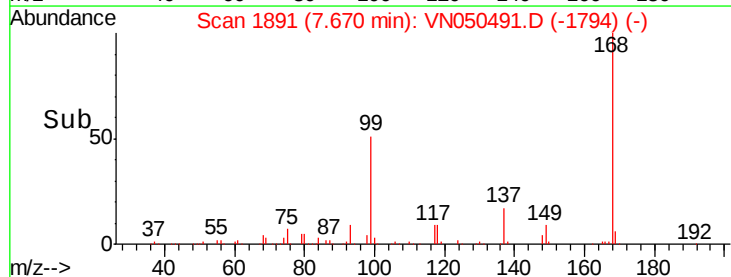
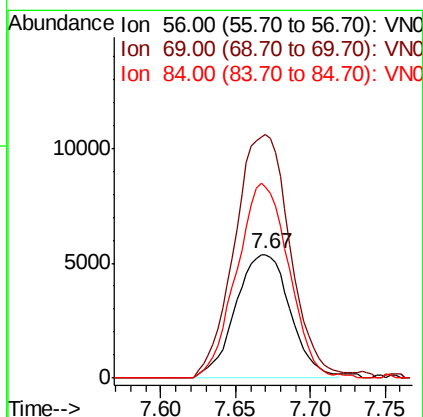
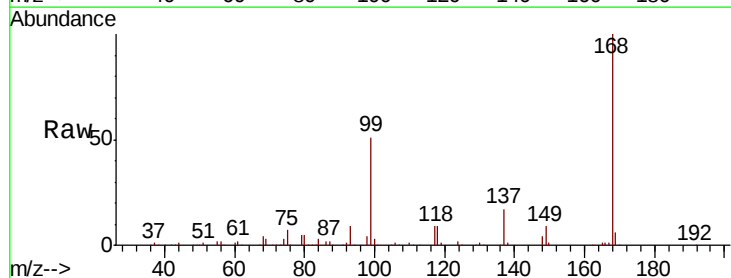
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MSVOA_N
ClientSampled :

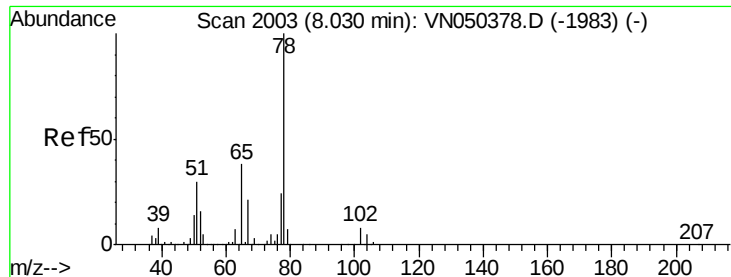
Tot Ion: 83 Resp: 5961
Ion Ratio Lower Upper
83 100
85 57.9 52.5 78.7



#31
Cyclohexane
Concen: 0.30 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 56 Resp: 13672
Ion Ratio Lower Upper
56 100
69 196.9 26.2 39.4#
84 154.3 67.4 101.0#

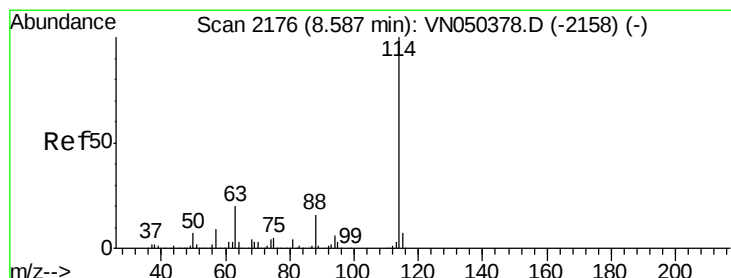
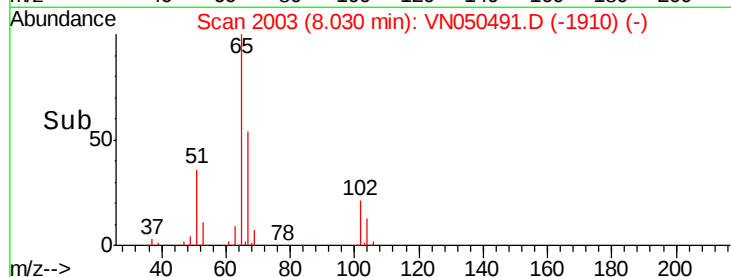
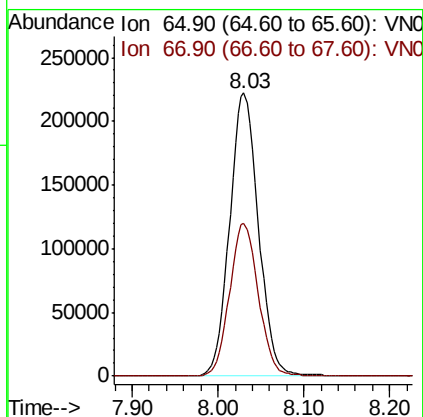
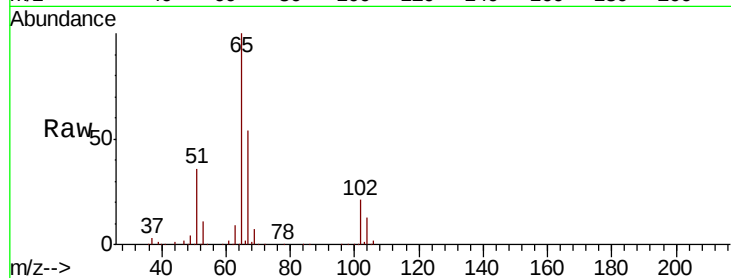




#33
 1,2-Dichloroethane-d4
 Concen: 50.13 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

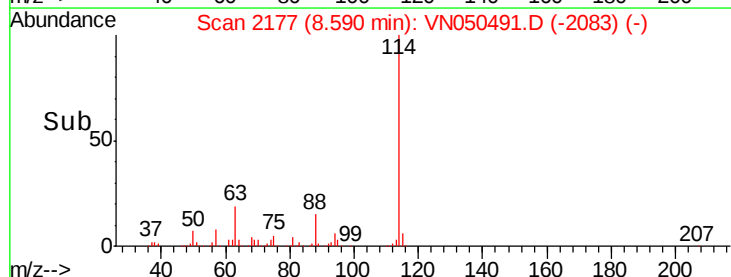
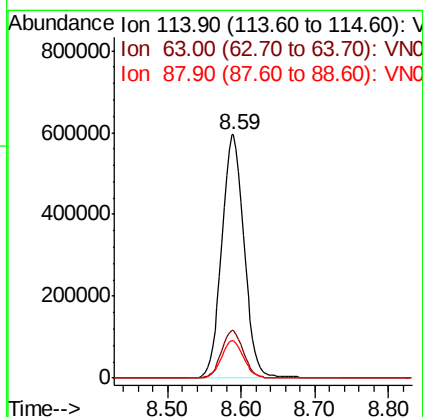
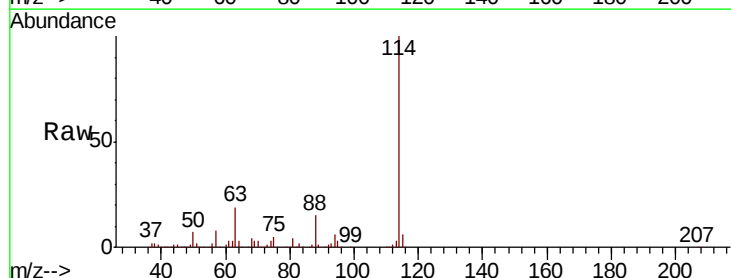
Instrument :
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 ClientSampleId :

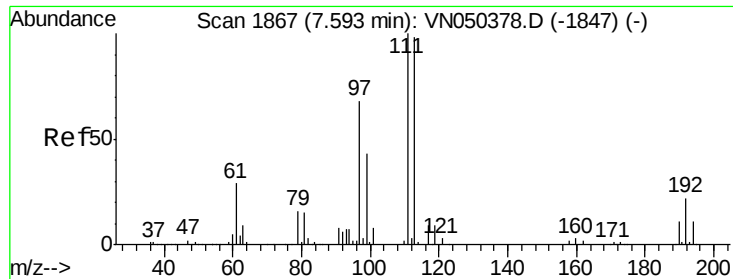
Tot Ion: 65 Resp: 516448
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

Tgt Ion: 114 Resp: 1253998
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.3 0.0 31.2

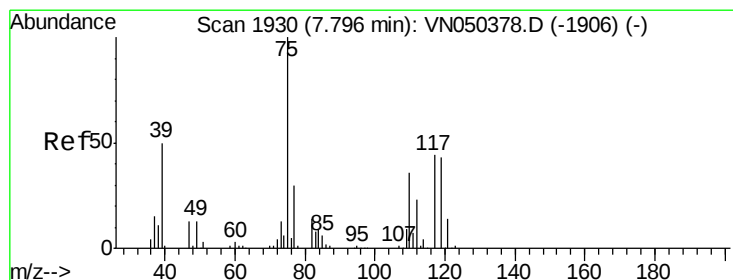
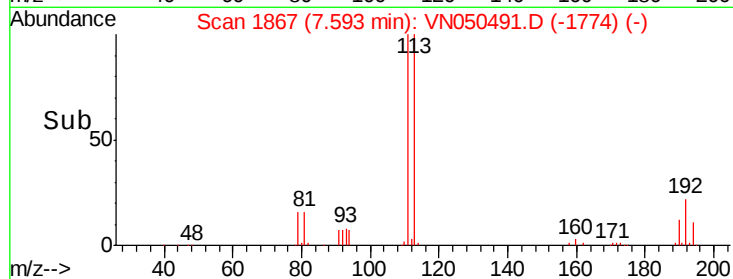
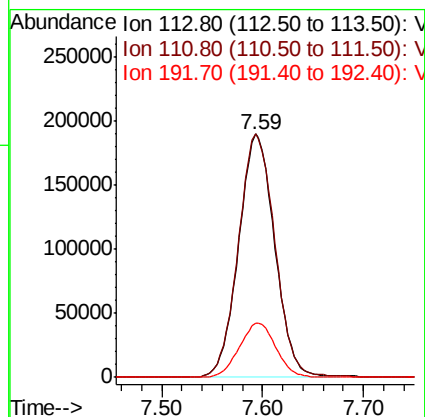
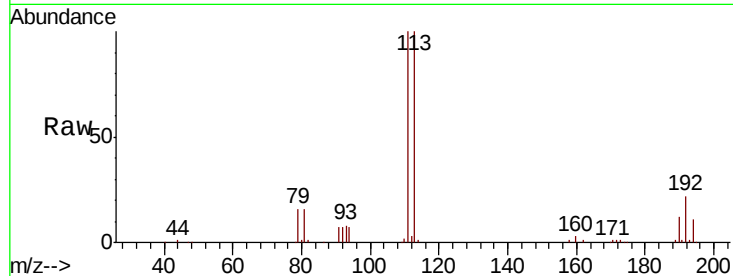




#35
 Dibromofluoromethane
 Concen: 46.82 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

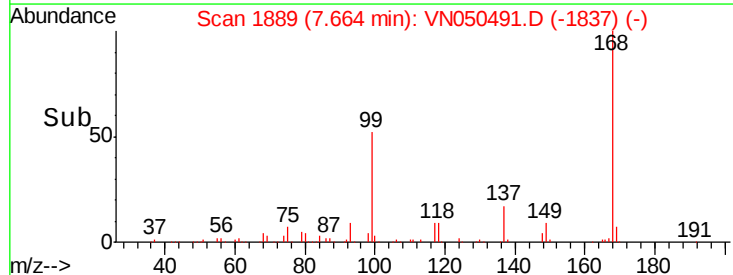
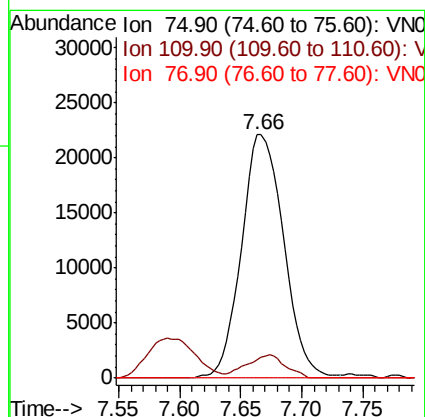
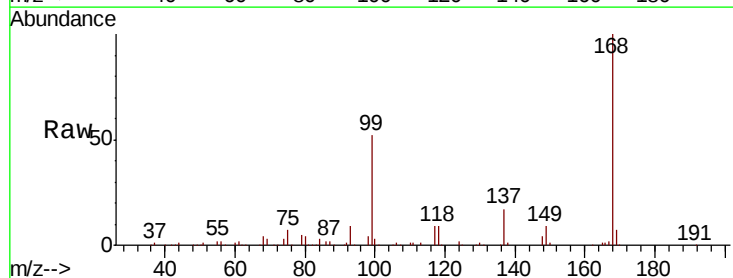
Instrument :
 MSVOA_N
 ClientSampleId :

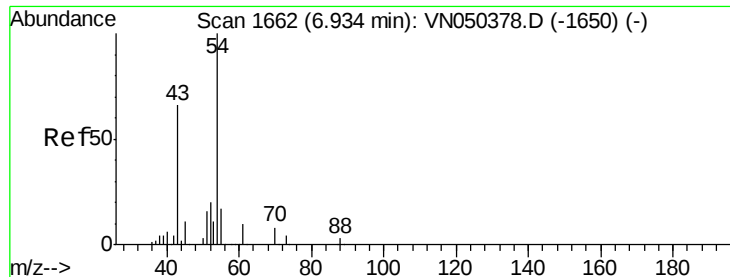
Tot Ion:113 Resp: 471117
 Ion Ratio Lower Upper
 113 100
 111 101.8 80.7 121.1
 192 22.7 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

Tgt Ion: 75 Resp: 53062
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.4 55.2#
 77 0.0 25.3 37.9#

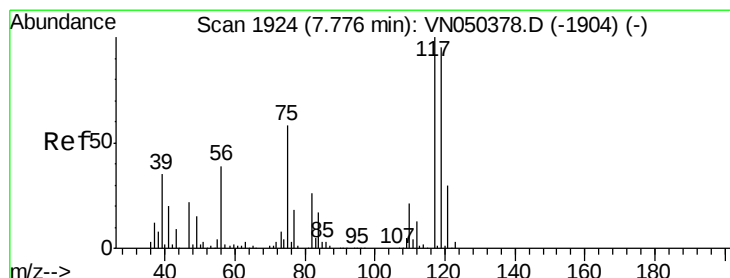
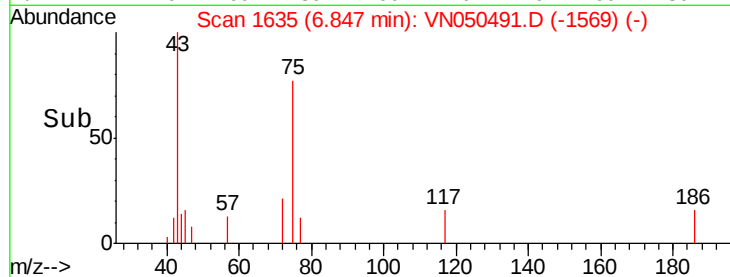
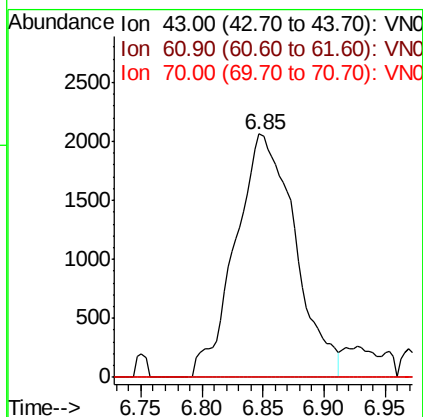
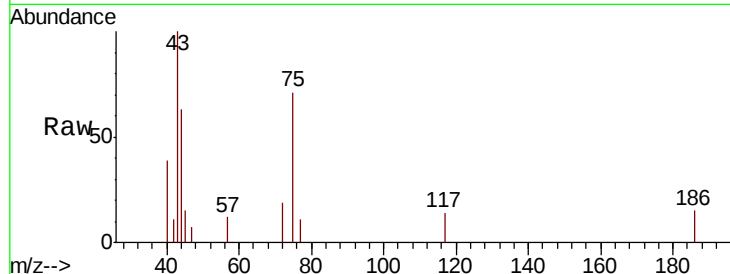




#37
Ethyl Acetate
Concen: 0.70 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. -0.09 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

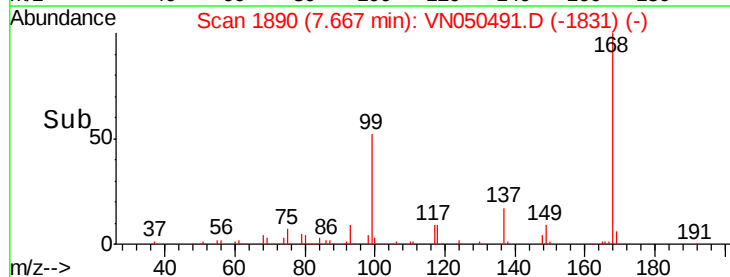
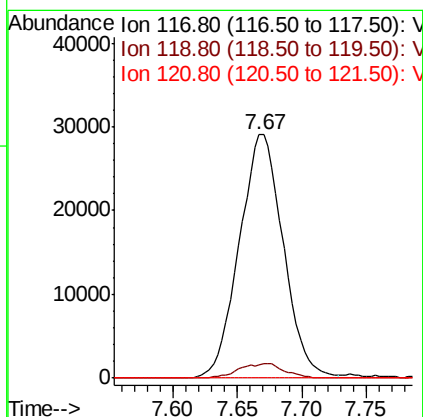
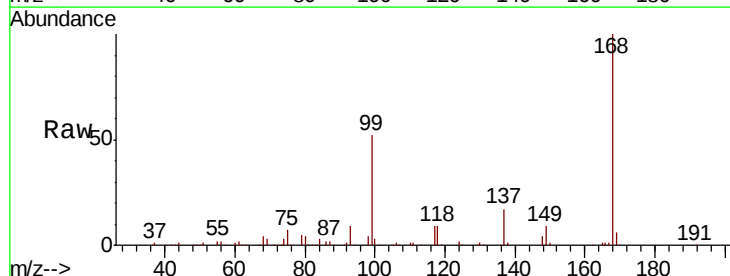
Instrument :
MSVOA_N
ClientSampled :

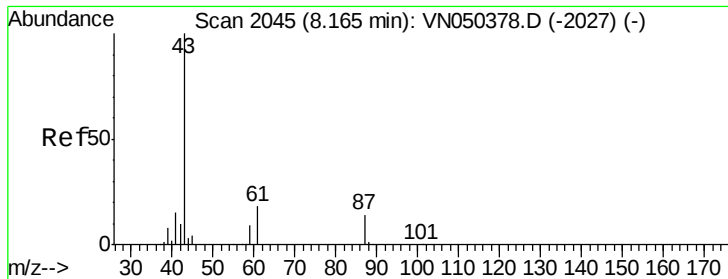
Tot Ion: 43 Resp: 6980
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.80 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 117 Resp: 69016
Ion Ratio Lower Upper
117 100
119 5.4 77.4 116.0#
121 0.0 23.9 35.9#



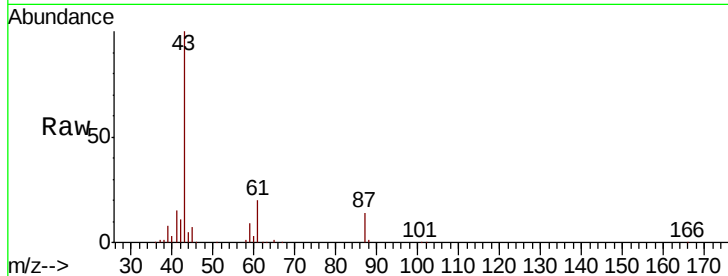


#43

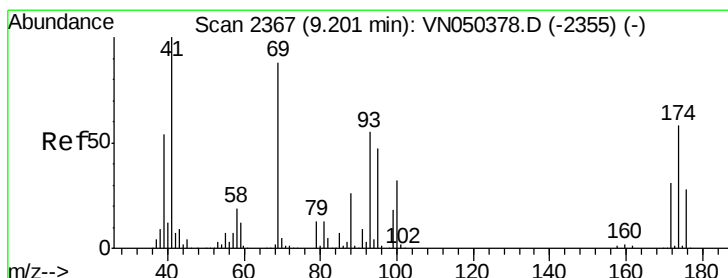
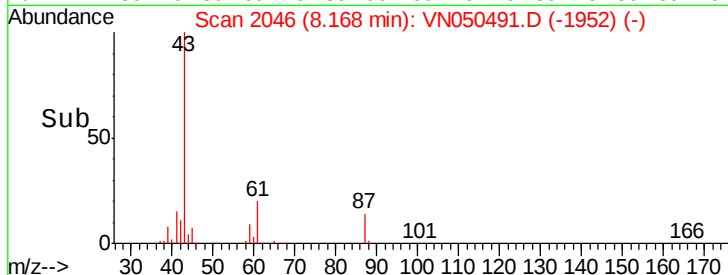
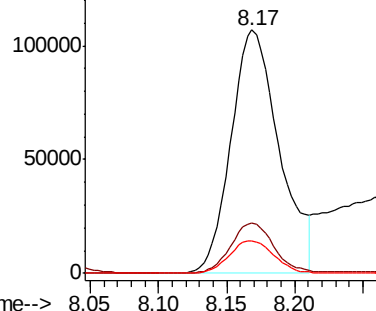
Isopropyl Acetate
 Concen: 15.32 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 43 Resp: 262396
 Ion Ratio Lower Upper
 43 100
 61 18.6 15.8 23.6
 87 12.5 10.3 15.5



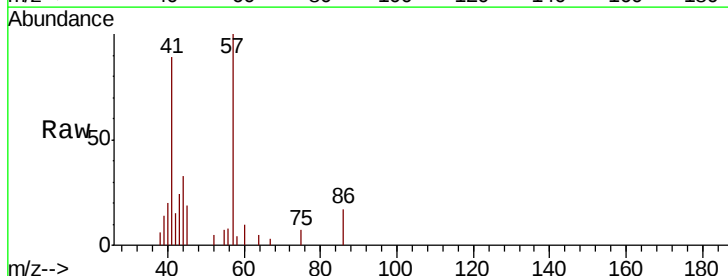
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



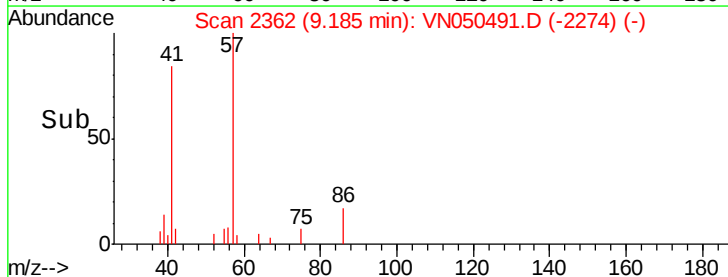
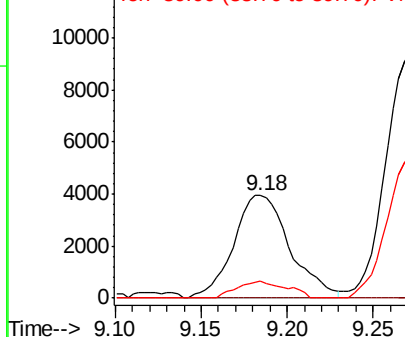
#48

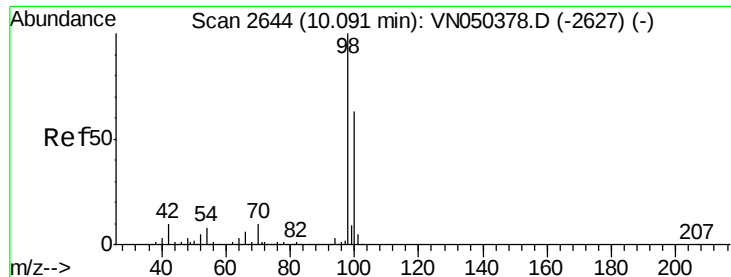
Methyl methacrylate
 Concen: 1.05 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

Tgt Ion: 41 Resp: 8974
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 14.2 43.9 65.9#



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: 44.88 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050491.D

Acq: 9 Aug 2018 17:30

Instrument :

MSVOA_N

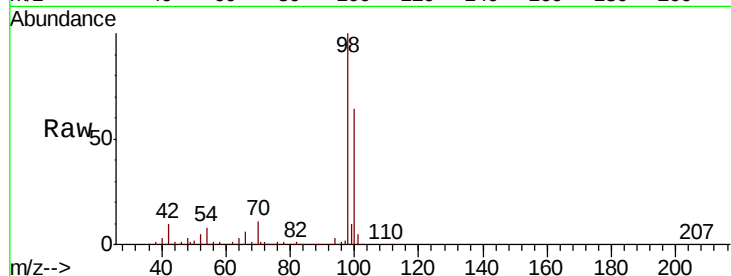
ClientSampleId :

Tot Ion: 98 Resp: 1697908

Ion Ratio Lower Upper

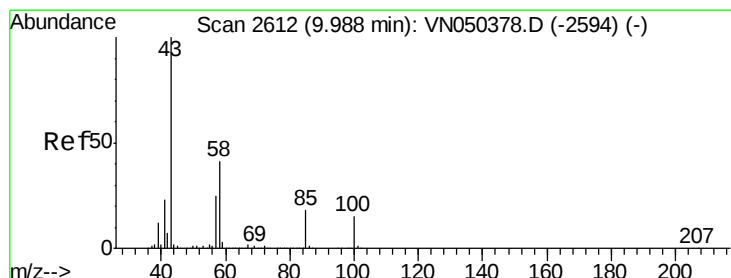
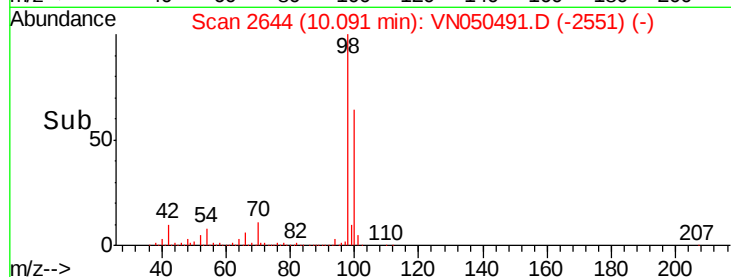
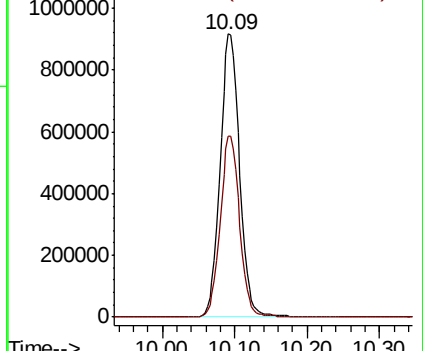
98 100

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): VN



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN050491.D

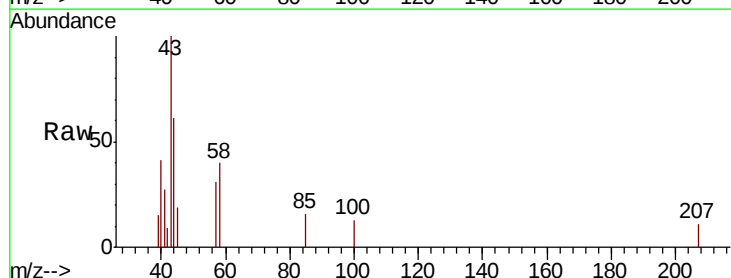
Acq: 9 Aug 2018 17:30

Tgt Ion: 43 Resp: 2671

Ion Ratio Lower Upper

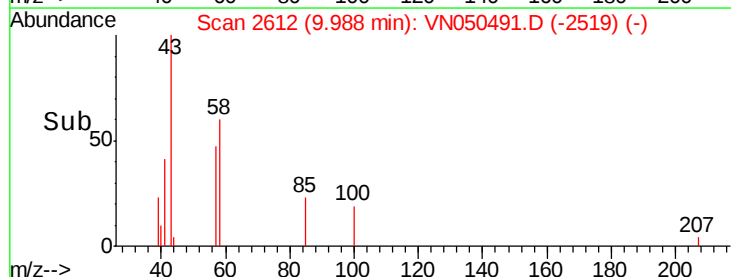
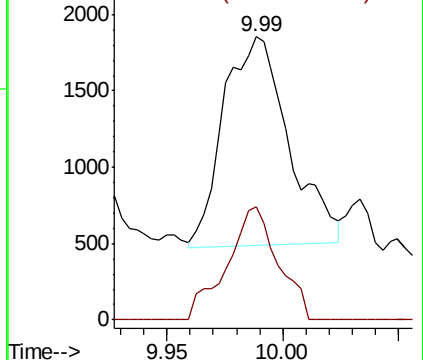
43 100

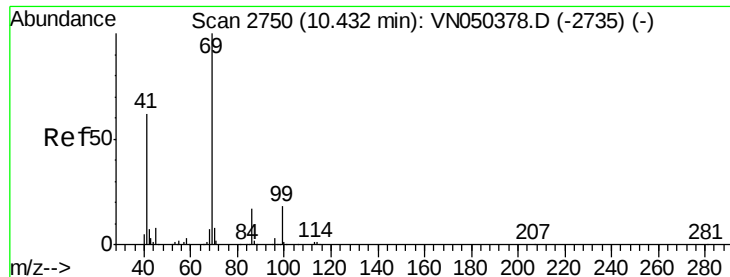
58 42.0 31.9 47.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#56

Ethyl methacrylate

Concen: 1.73 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.20 min

Lab File: VN050491.D

Acq: 9 Aug 2018 17:30

Instrument :

MSVOA_N

ClientSampled :

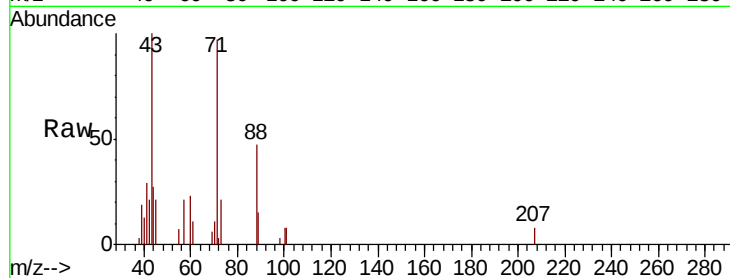
Tot Ion: 69 Resp: 317

Ion Ratio Lower Upper

69 100

41 1303.2 51.0 76.4#

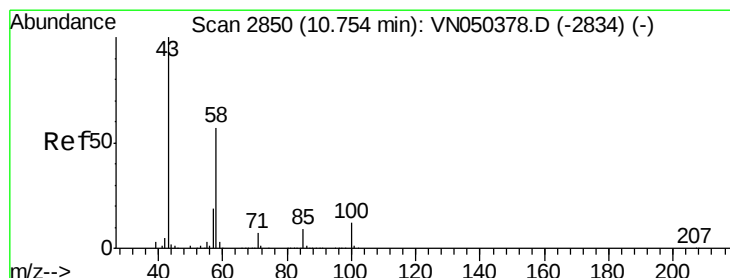
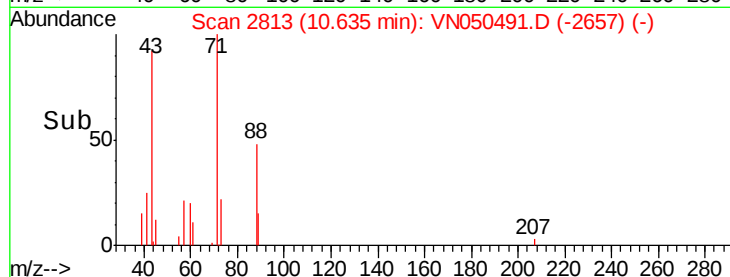
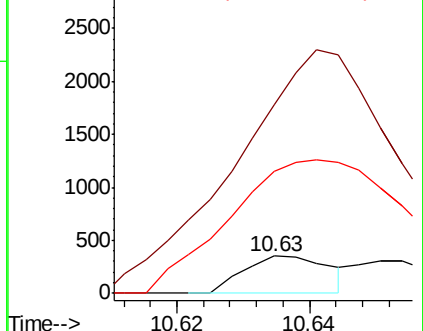
39 771.0 26.6 40.0#



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: 1.75 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050491.D

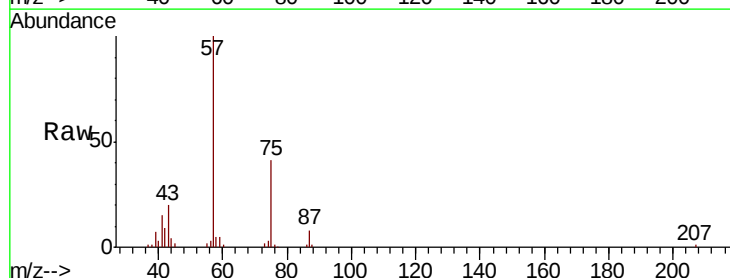
Acq: 9 Aug 2018 17:30

Tgt Ion: 43 Resp: 15060

Ion Ratio Lower Upper

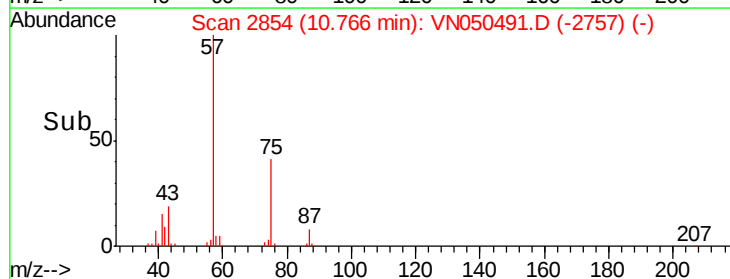
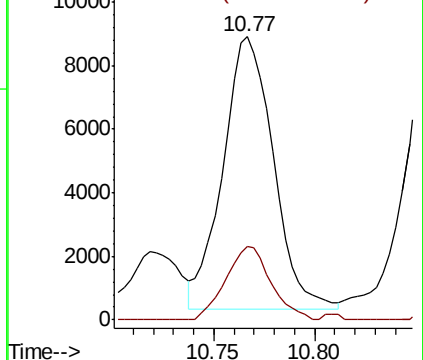
43 100

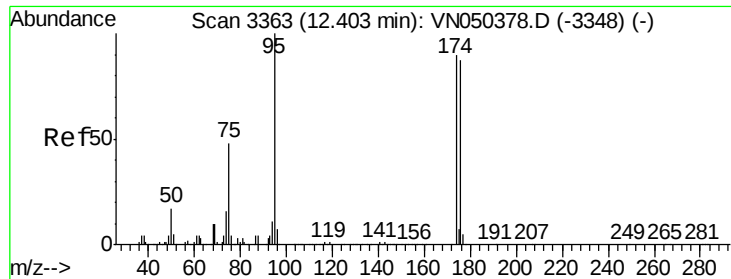
58 24.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

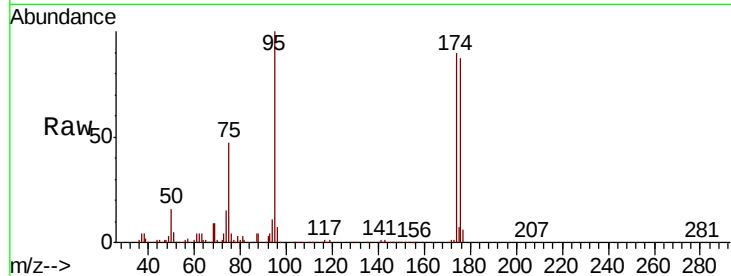




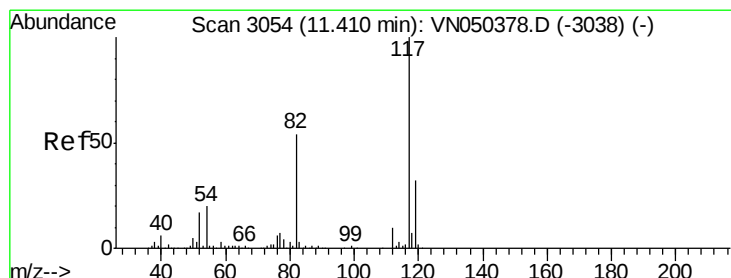
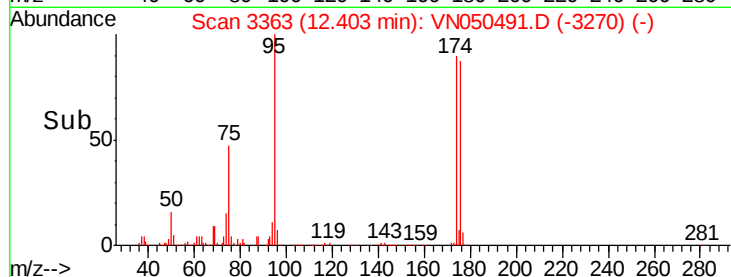
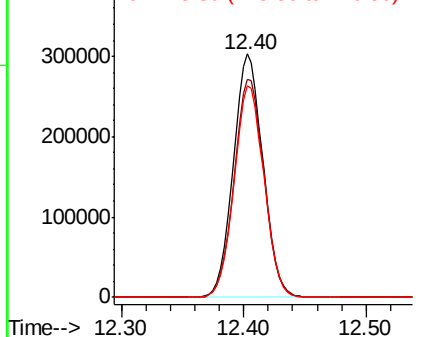
#62
4-Bromofluorobenzene
Concen: 39.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 507642
Ion Ratio Lower Upper
95 100
174 91.0 0.0 178.2
176 87.8 0.0 173.4

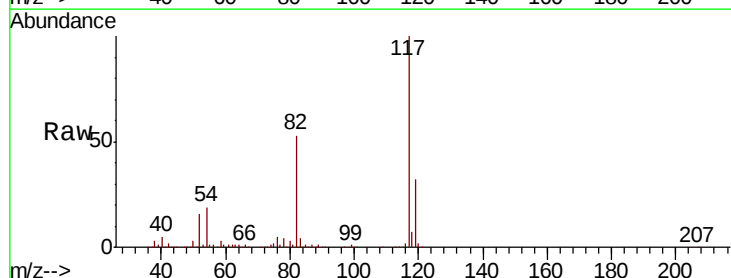


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): VN0
Ion 175.80 (175.50 to 176.50): VN0

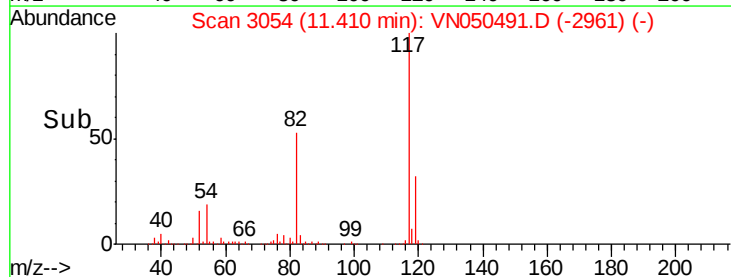
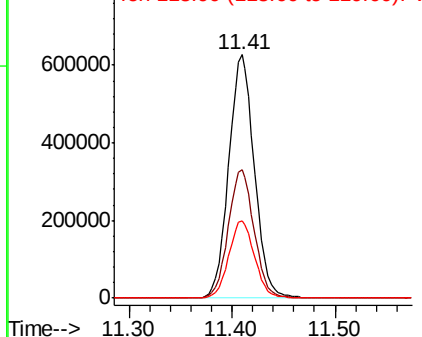


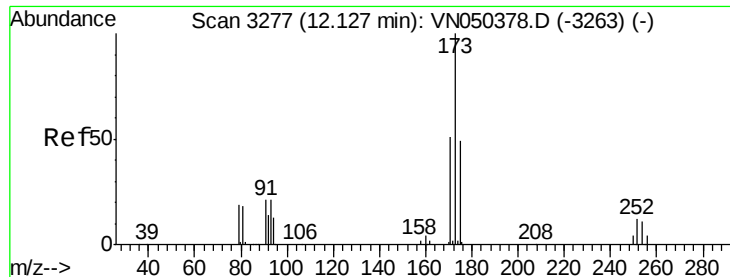
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Tgt Ion: 117 Resp: 1085553
Ion Ratio Lower Upper
117 100
82 52.9 43.7 65.5
119 31.8 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): VN0
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050491.D

Acq: 9 Aug 2018 17:30

Instrument :

MSVOA_N

ClientSampleId :

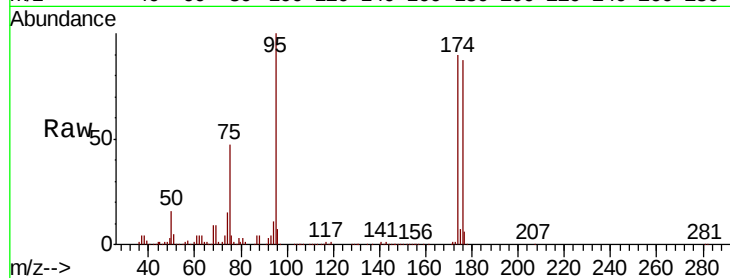
Tot Ion:173 Resp: 4315

Ion Ratio Lower Upper

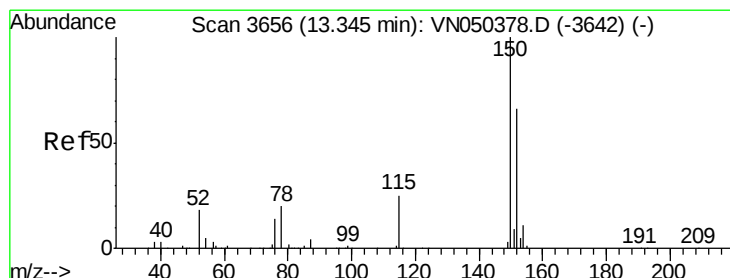
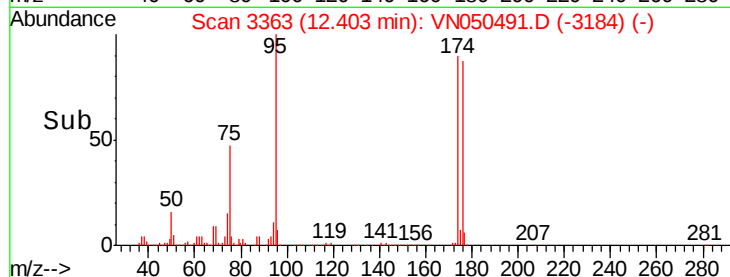
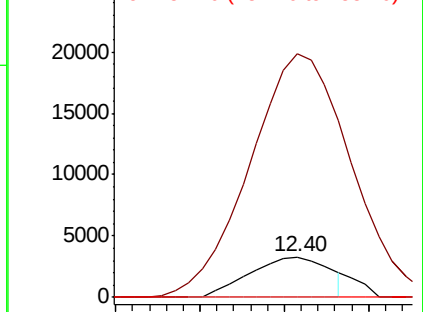
173 100

175 633.3 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: VN050491.D

Acq: 9 Aug 2018 17:30

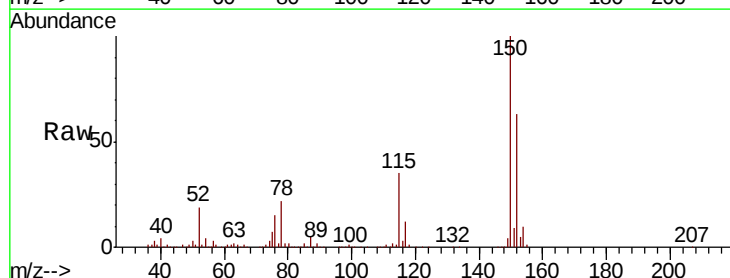
Tgt Ion:152 Resp: 436000

Ion Ratio Lower Upper

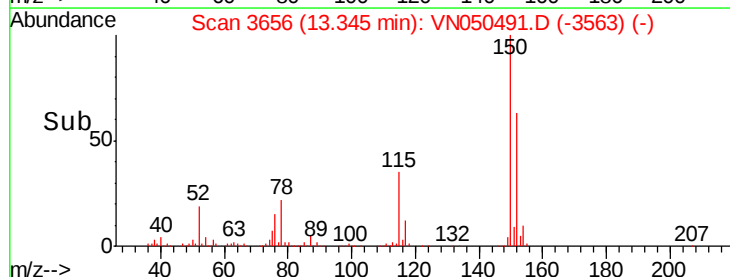
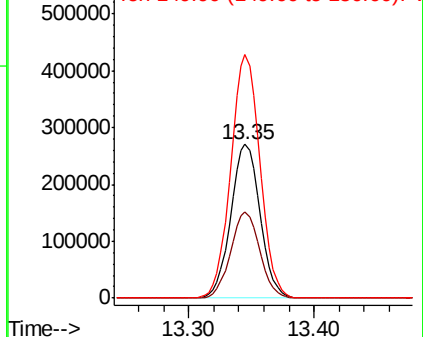
152 100

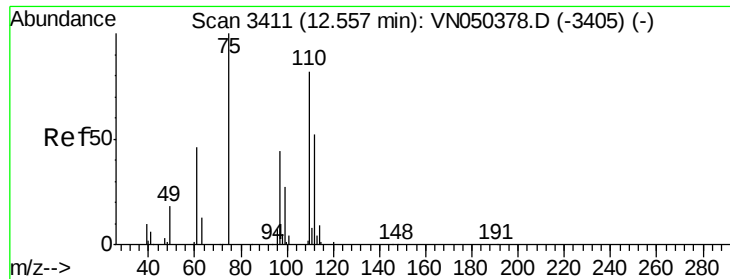
115 55.9 27.8 83.3

150 158.4 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

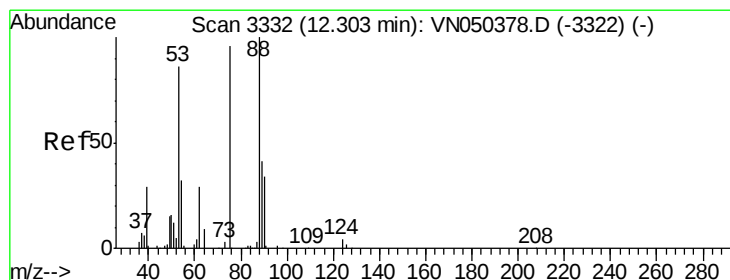
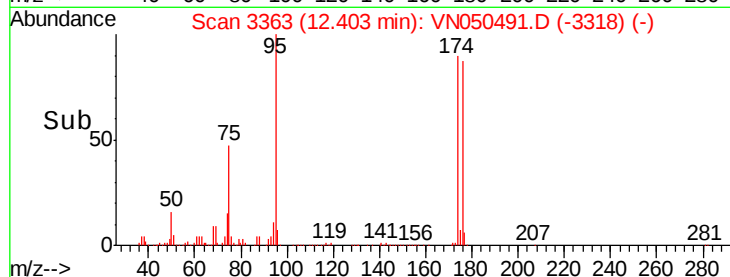
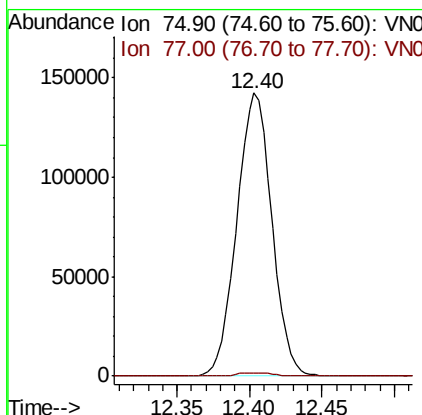
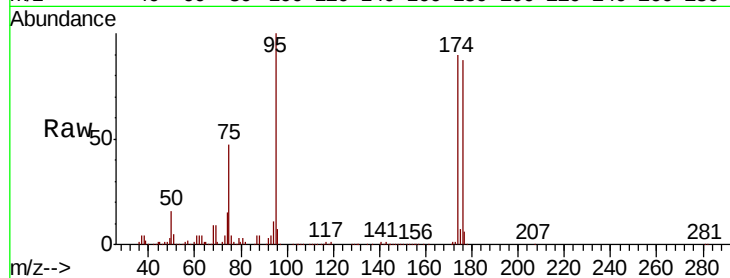




#76
 1,2,3-Trichloropropane
 Concen: 30.28 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

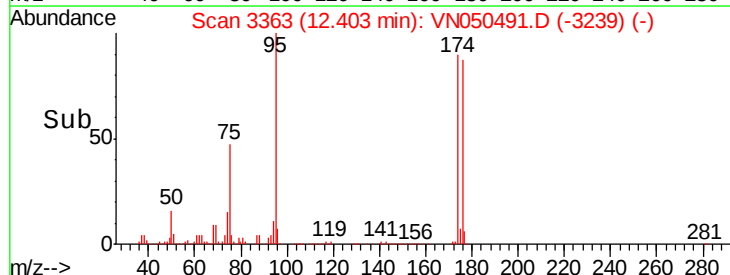
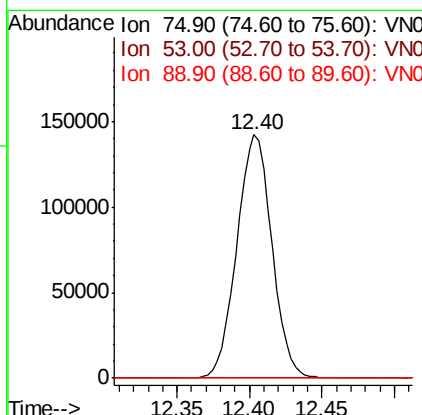
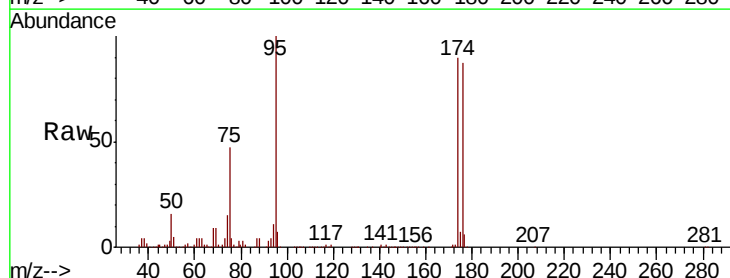
Instrument :
 MSVOA_N
 ClientSampleId :

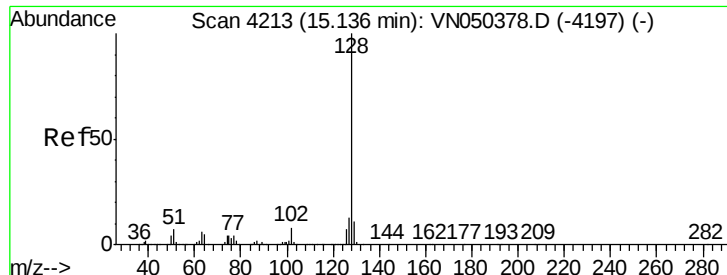
Tot Ion: 75 Resp: 238979
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.39 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050491.D
 Acq: 9 Aug 2018 17:30

Tgt Ion: 75 Resp: 238979
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.5 110.3#
 89 0.0 36.0 54.0#

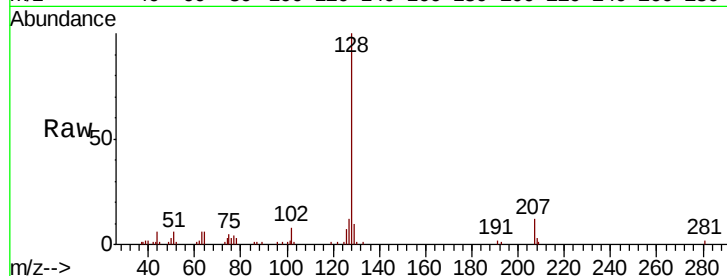




#95
Naphthalene
Concen: 5.58 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050491.D
Acq: 9 Aug 2018 17:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.4	15.6
129	10.4	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

