

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050929.D
 Acq On : 28 Aug 2018 21:56
 Operator : MD\SY
 Sample : J4276-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-082718

Quant Time: Aug 29 03:57:00 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	597818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	979185	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	853684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	297217	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	394535	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	
35) Dibromofluoromethane	7.59	113	370349	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	10.09	98	1340999	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
62) 4-Bromofluorobenzene	12.40	95	372373	38.48	ug/l	0.00
Spiked Amount			Recovery	=	76.96%	

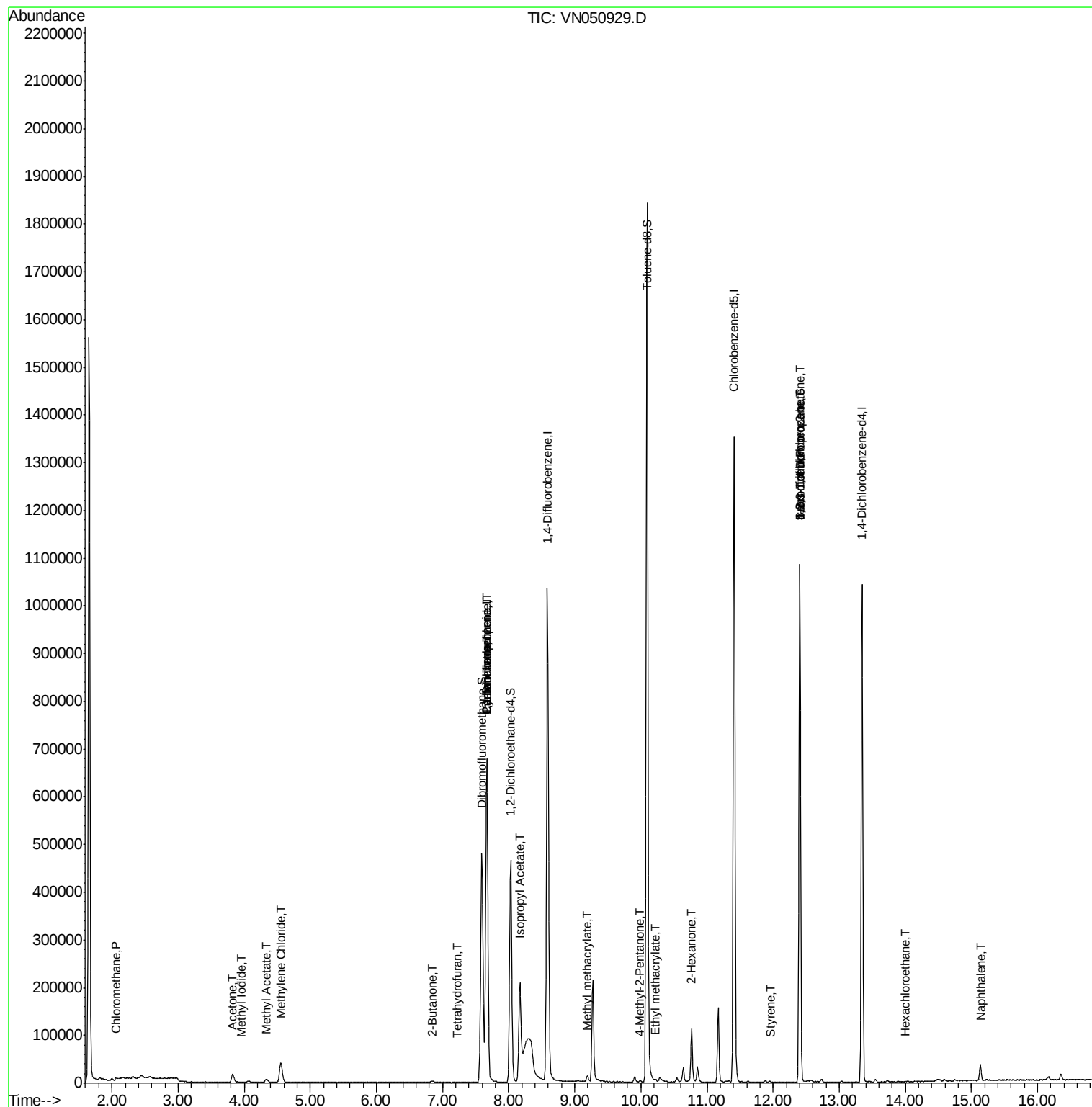
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2094	0.21	ug/l	91
5) Bromomethane	2.57	94	2660	Below Cal	#	77
10) Methyl Iodide	3.95	142	661	6.43	ug/l	# 85
16) Acetone	3.82	43	32199	12.17	ug/l	98
18) Methyl Acetate	4.34	43	14230	2.09	ug/l	# 77
20) Methylene Chloride	4.55	84	32718	4.03	ug/l	95
25) 2-Butanone	6.85	43	2720	0.94	ug/l	# 86
29) Tetrahydrofuran	7.23	42	986	0.59	ug/l	# 33
31) Cyclohexane	7.67	56	9605	1.24	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	39088	3.38	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	53235	4.56	ug/l	# 17
43) Isopropyl Acetate	8.17	43	257330	22.55	ug/l	95
48) Methyl methacrylate	9.18	41	7687	1.32	ug/l	# 18
51) 4-Methyl-2-Pentanone	9.99	43	2197	0.32	ug/l	91
56) Ethyl methacrylate	10.23	69	2302	2.57	ug/l	# 91
59) 2-Hexanone	10.77	43	14884	3.28	ug/l	# 59
70) Styrene	11.97	104	447	1.29	ug/l	# 52
71) Bromoform	12.40	173	1629	0.29	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.41	83	194	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	175473	33.71	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	175473	113.95	ug/l	# 15
90) Hexachloroethane	13.99	117	879	0.42	ug/l	# 4
95) Naphthalene	15.14	128	29081	7.58	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

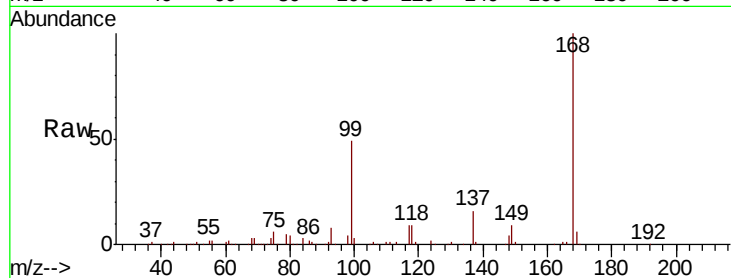
OK-02-082718

Tot Ion:168 Resp: 597818

Ion Ratio Lower Upper

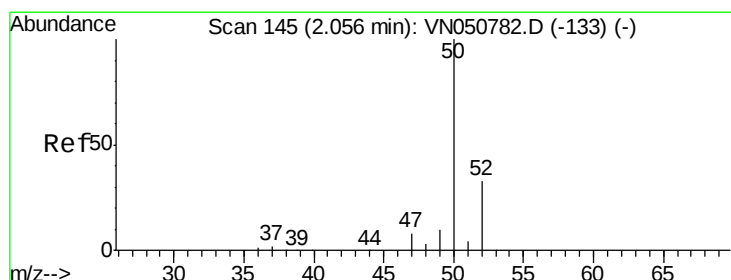
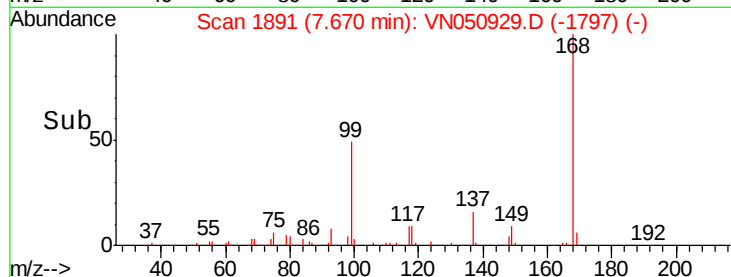
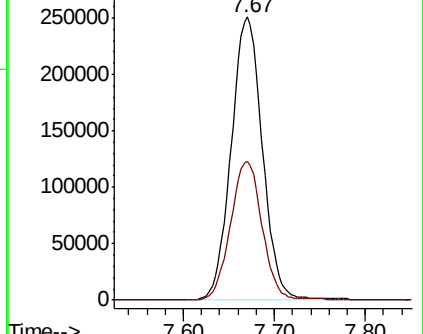
168 100

99 49.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050929.D

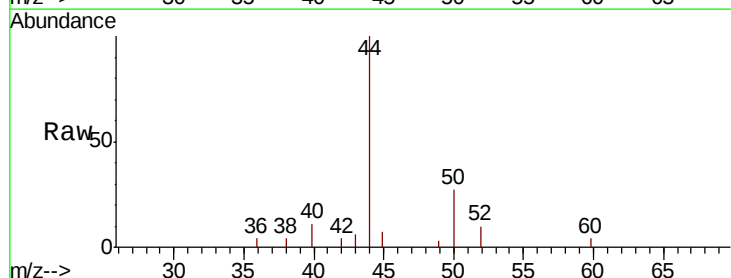
Acq: 28 Aug 2018 21:56

Tgt Ion: 50 Resp: 2094

Ion Ratio Lower Upper

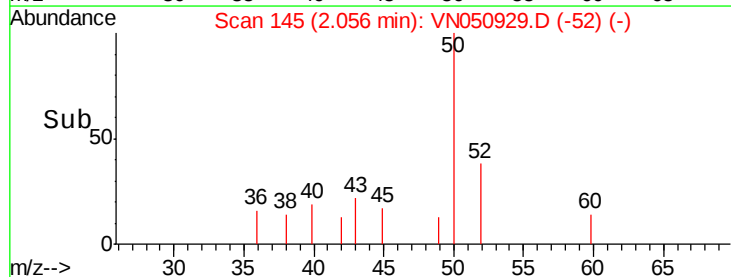
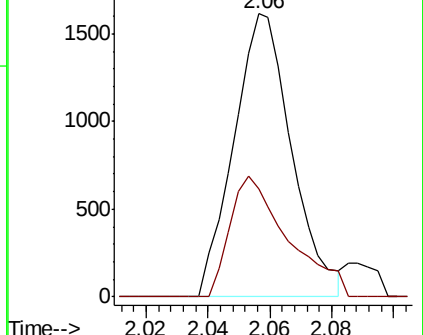
50 100

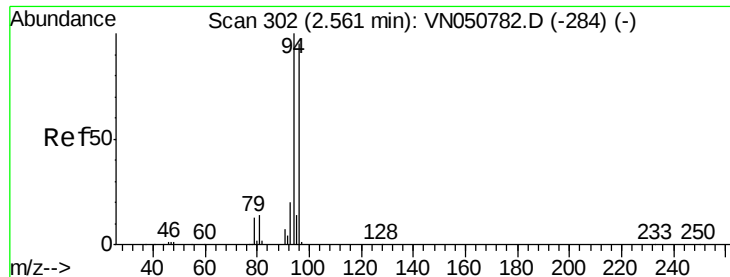
52 38.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

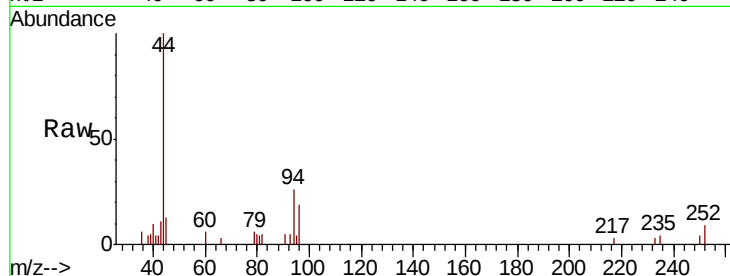
OK-02-082718

Tot Ion: 94 Resp: 2660

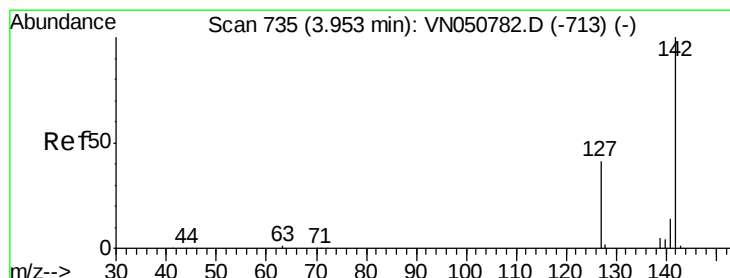
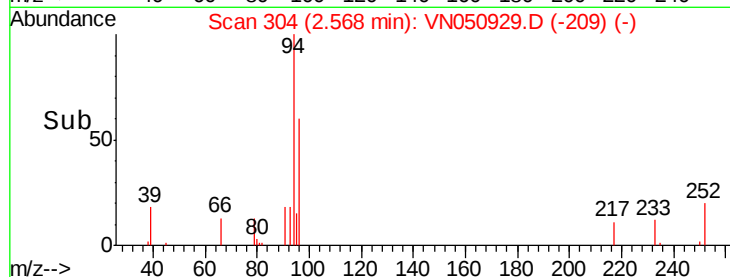
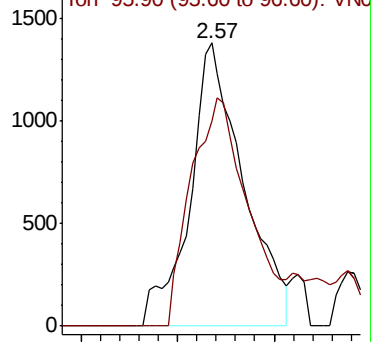
Ion Ratio Lower Upper

94 100

96 72.4 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN050929.D (-209) (-)



#10

Methyl Iodide

Concen: 6.43 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

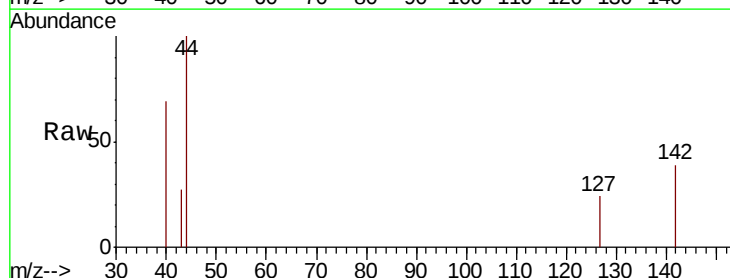
Tgt Ion: 142 Resp: 661

Ion Ratio Lower Upper

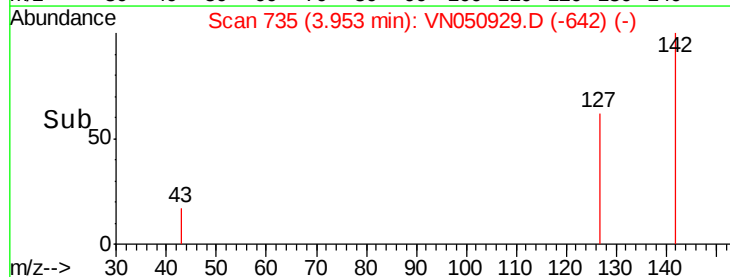
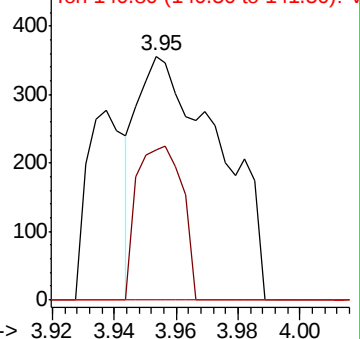
142 100

127 34.5 31.7 47.5

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050929.D (-642) (-)





#16

Acetone

Concen: 12.17 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

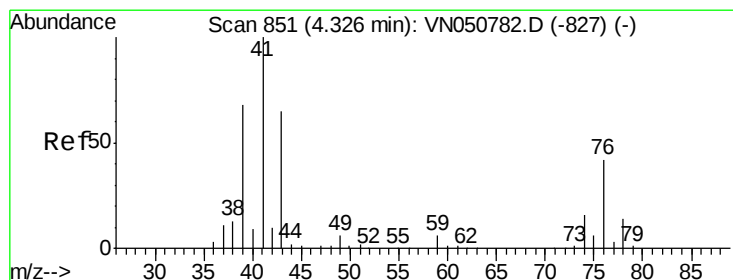
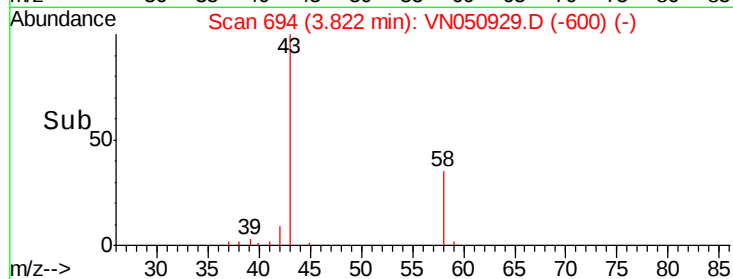
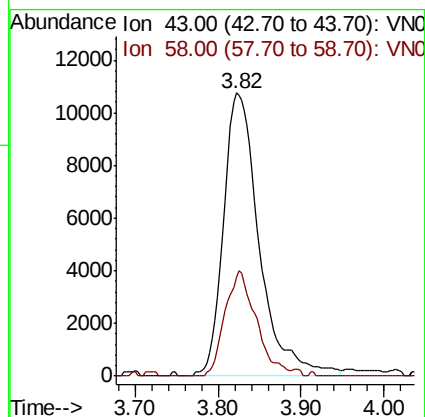
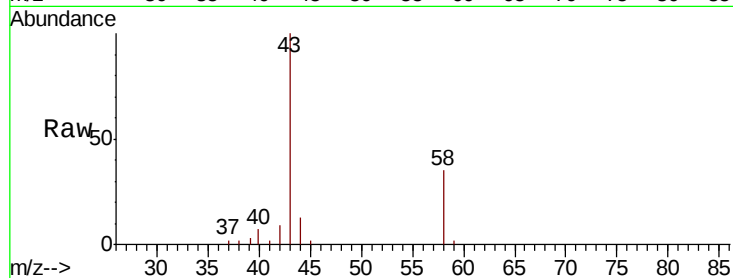
OK-02-082718

Tot Ion: 43 Resp: 32199

Ion Ratio Lower Upper

43 100

58 34.9 27.2 40.8



#18

Methyl Acetate

Concen: 2.09 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050929.D

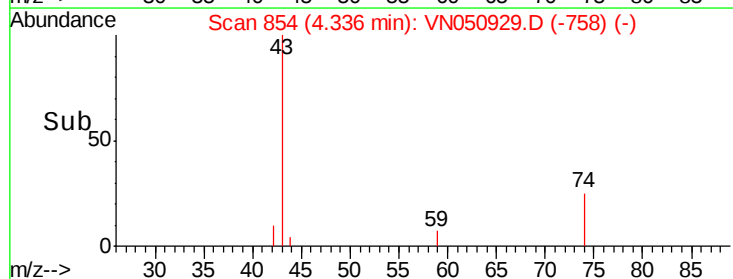
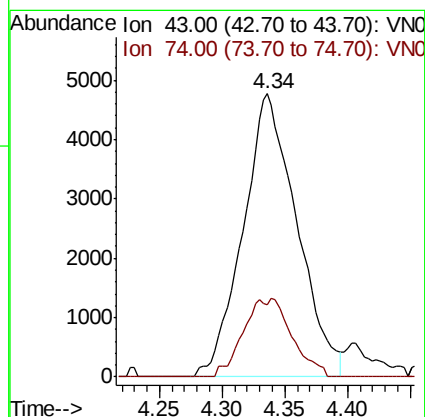
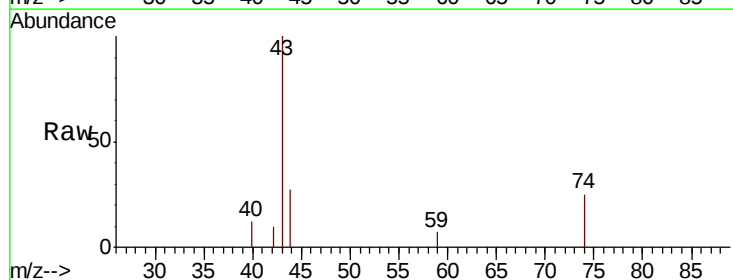
Acq: 28 Aug 2018 21:56

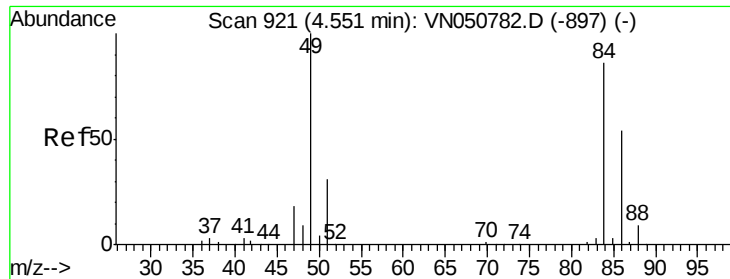
Tgt Ion: 43 Resp: 14230

Ion Ratio Lower Upper

43 100

74 13.1 19.8 29.8#

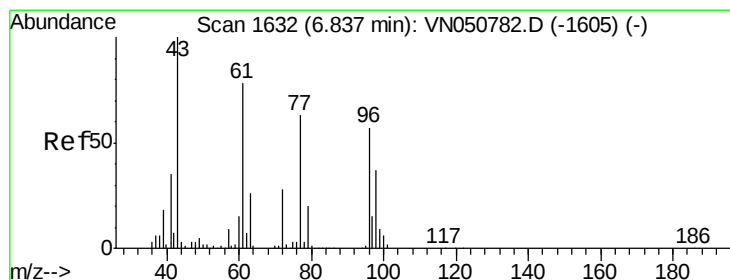
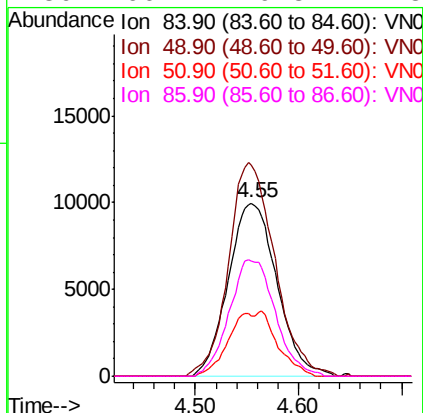
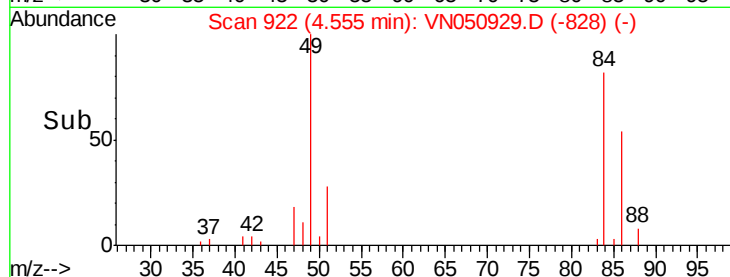
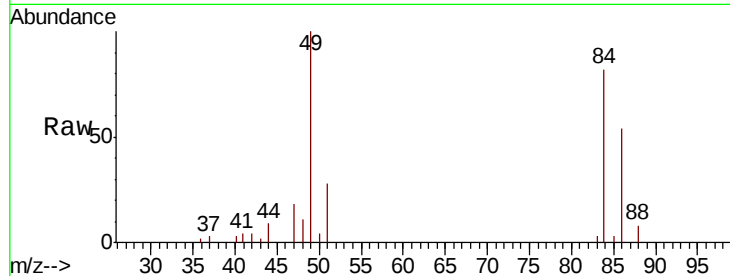




#20
Methvlene Chloride
Concen: 4.03 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

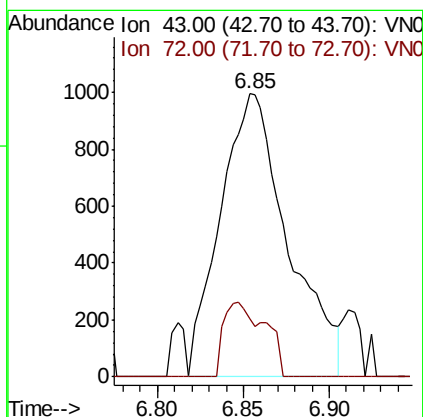
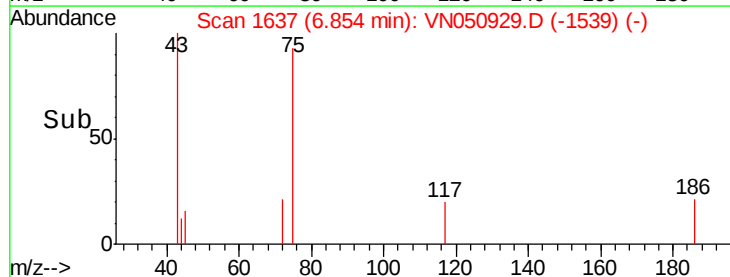
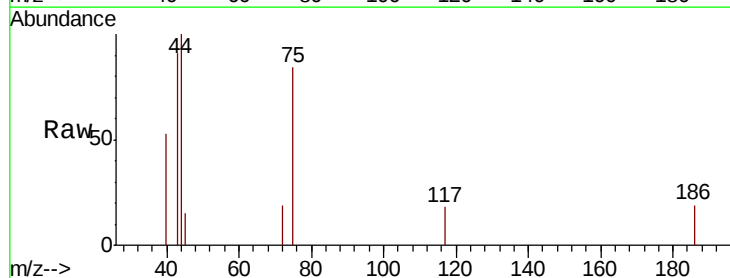
Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

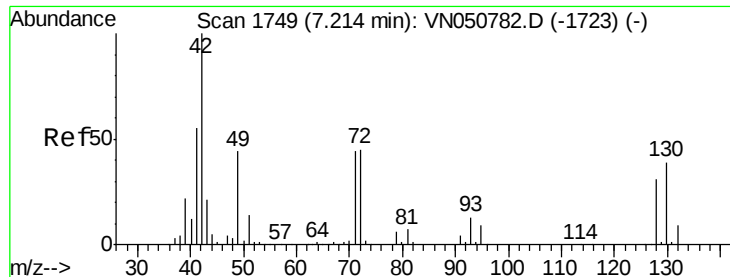
Tot Ion:	84	Resp:	32718
Ion	Ratio	Lower	Upper
84	100		
49	122.4	93.2	139.8
51	34.8	29.0	43.6
86	66.4	49.8	74.8



#25
2-Butanone
Concen: 0.94 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Tgt Ion:	43	Resp:	2720
Ion	Ratio	Lower	Upper
43	100		
72	20.7	22.3	33.5#





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

OK-02-082718

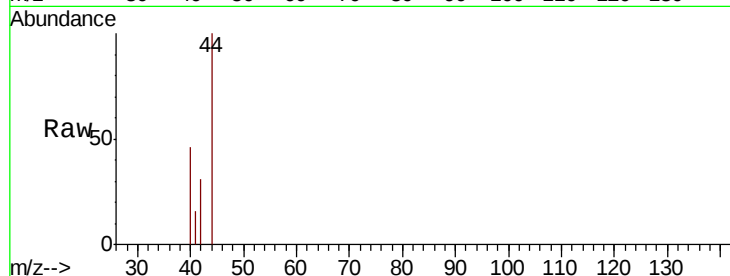
Tot Ion: 42 Resp: 986

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

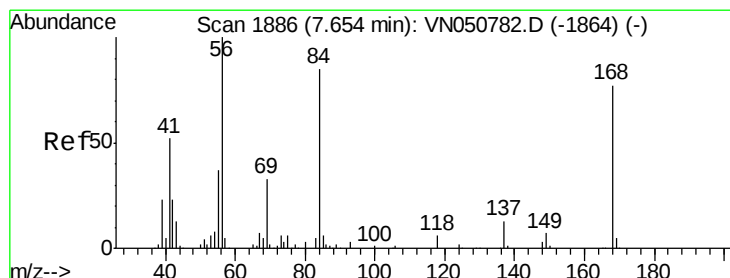
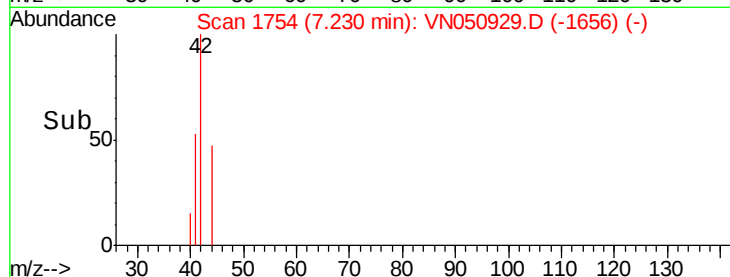
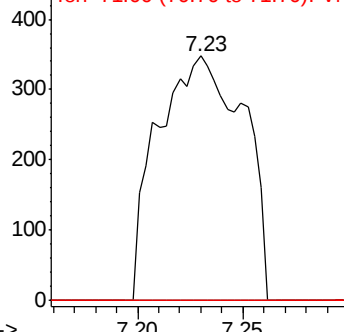
71 0.0 33.7 50.5#



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



#31

Cyclohexane

Concen: 1.24 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

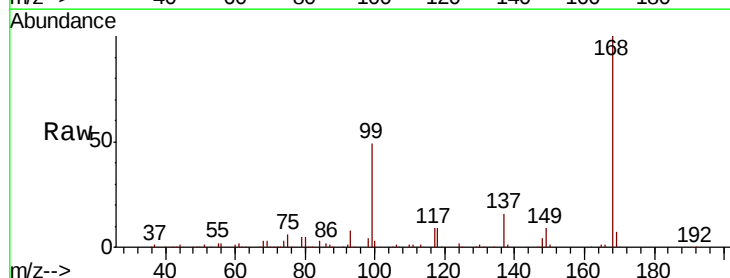
Tgt Ion: 56 Resp: 9605

Ion Ratio Lower Upper

56 100

69 210.9 26.2 39.4#

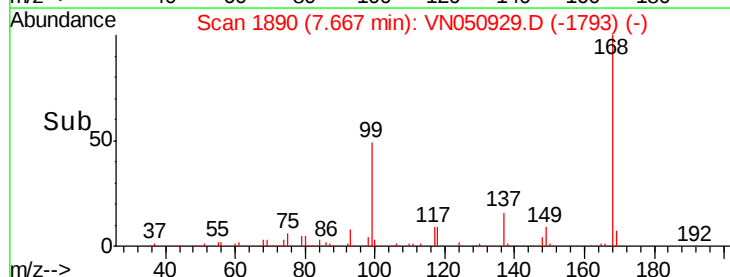
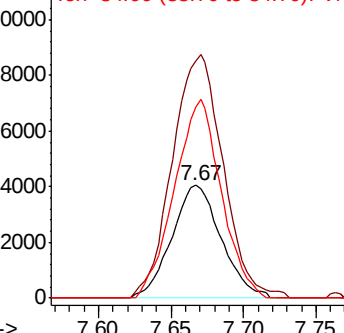
84 169.5 68.3 102.5#

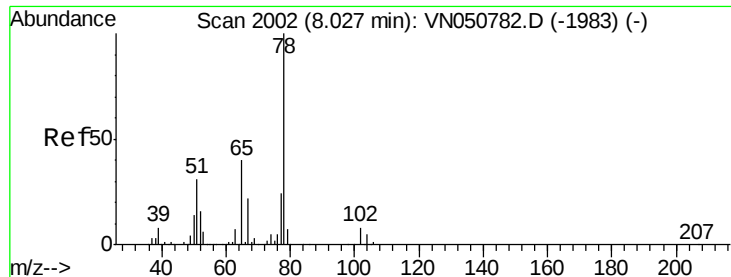


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

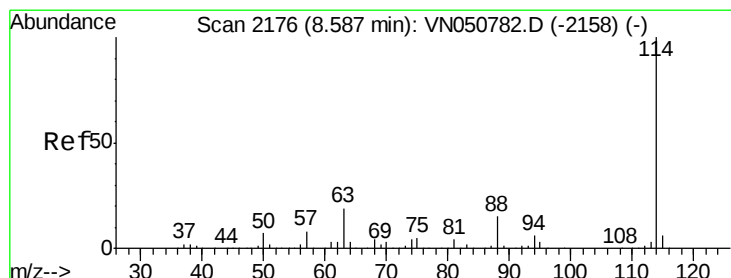
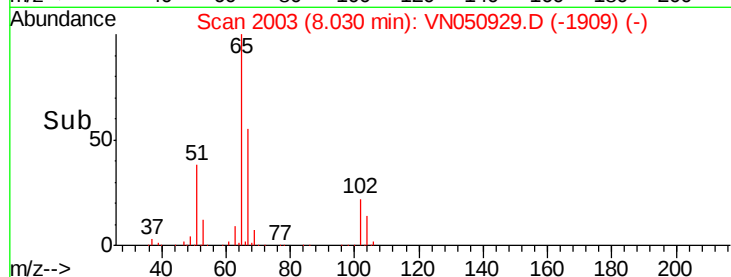
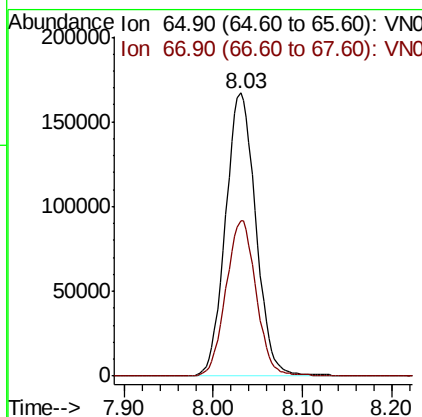
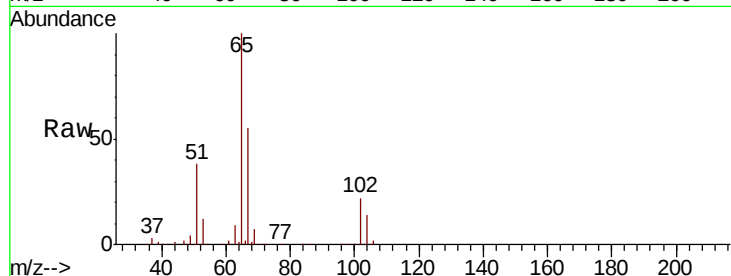




#33
 1,2-Dichloroethane-d4
 Concen: 54.82 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050929.D
 Acq: 28 Aug 2018 21:56

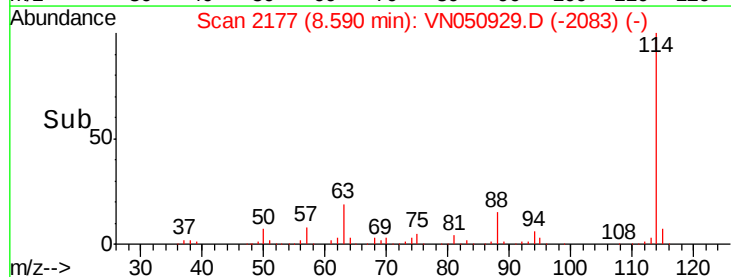
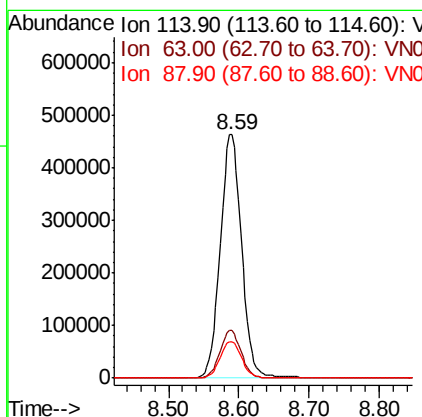
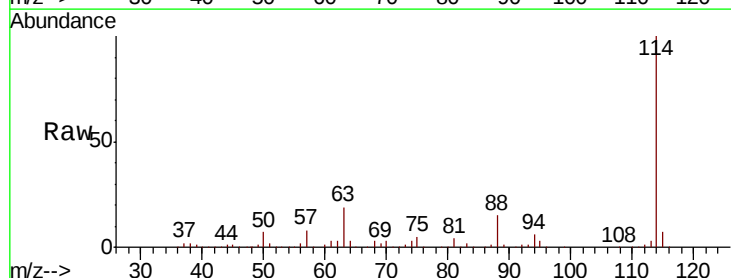
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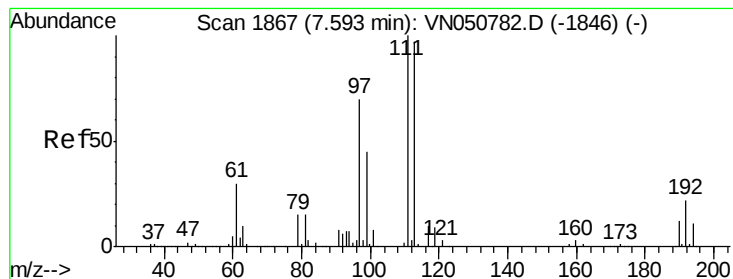
Tot Ion: 65 Resp: 394535
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050929.D
 Acq: 28 Aug 2018 21:56

Tgt Ion: 114 Resp: 979185
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 47.54 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

OK-02-082718

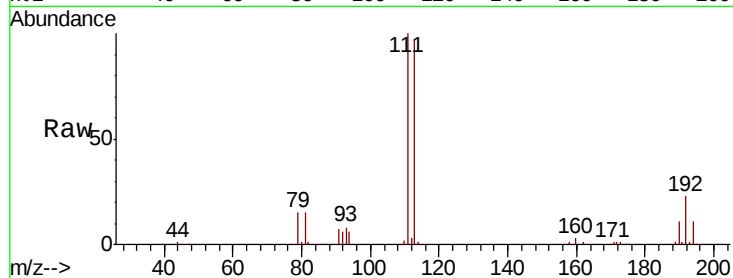
Tot Ion:113 Resp: 370349

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

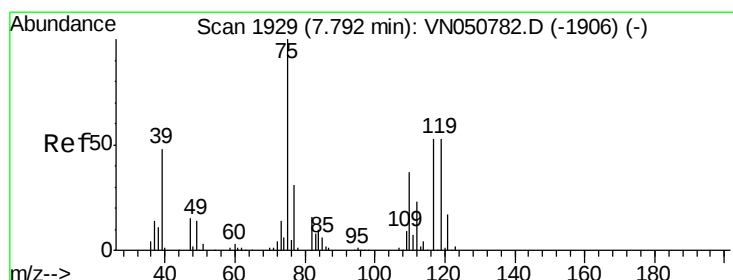
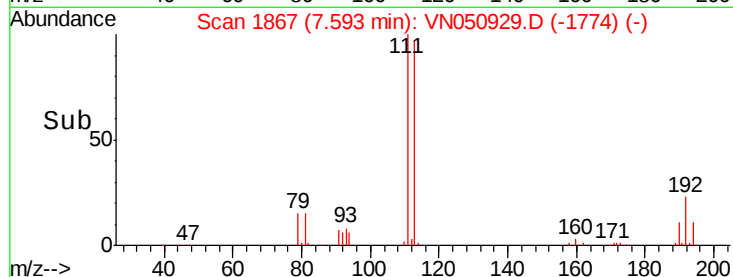
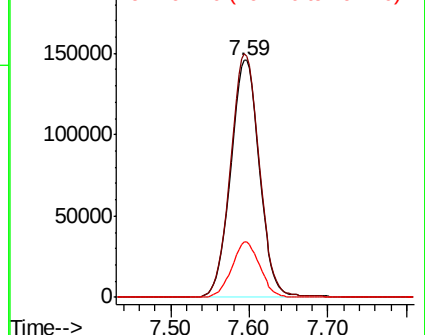
192 22.8 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.38 ug/l

RT: 7.67 min Scan# 1892

Delta R.T. -0.12 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

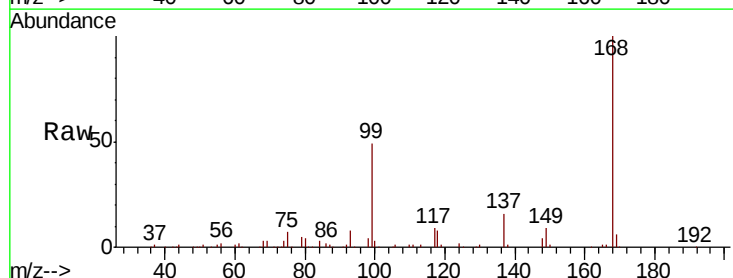
Tgt Ion: 75 Resp: 39088

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

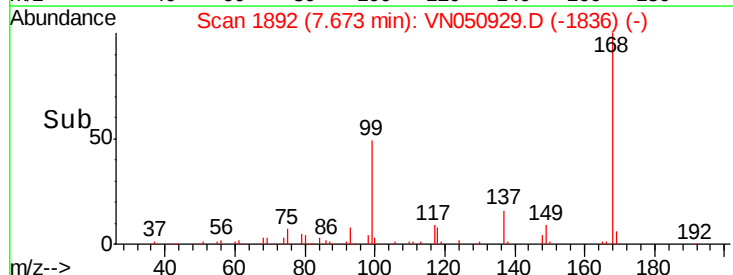
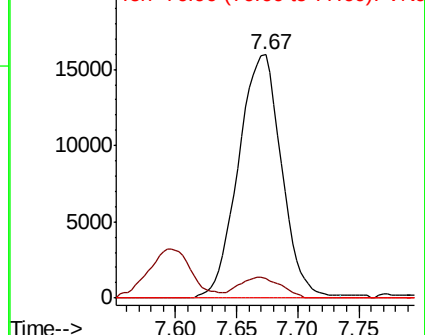
77 0.0 24.8 37.2#

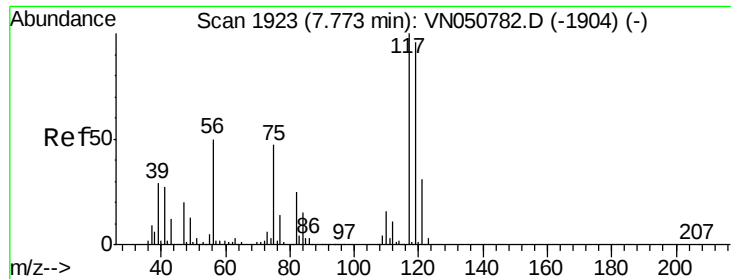


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

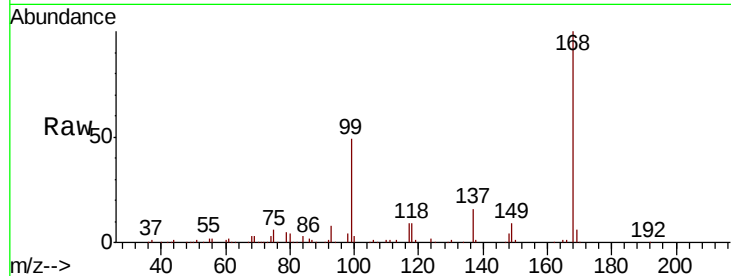




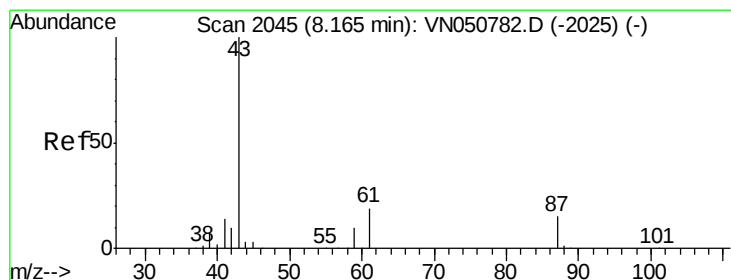
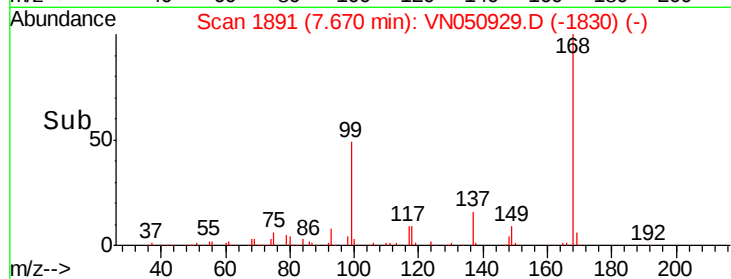
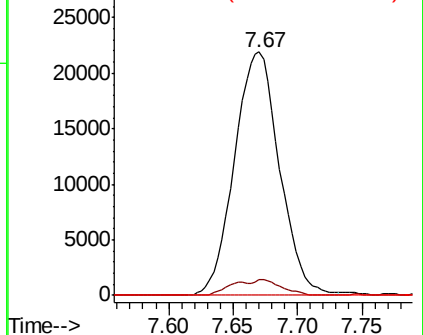
#38
Carbon Tetrachloride
Concen: 4.56 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

Tot Ion:117 Resp: 53235
Ion Ratio Lower Upper
117 100
119 6.3 76.3 114.5#
121 0.0 24.6 36.8#

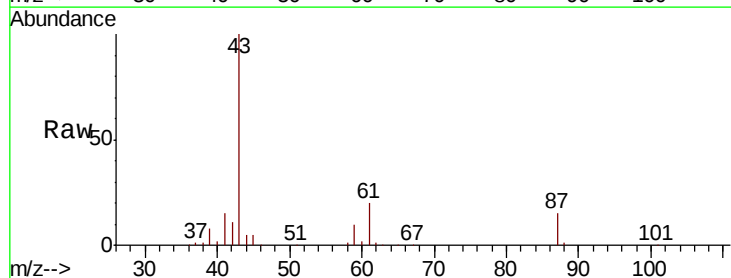


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

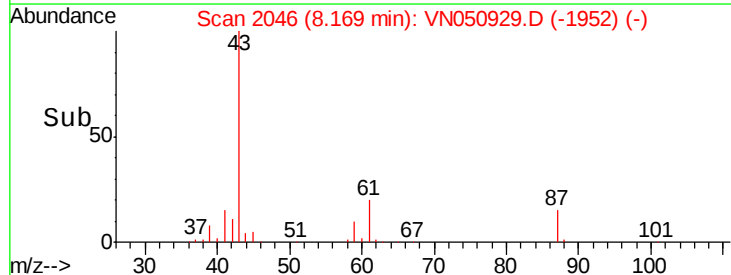
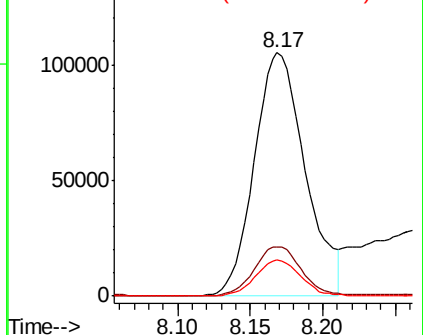


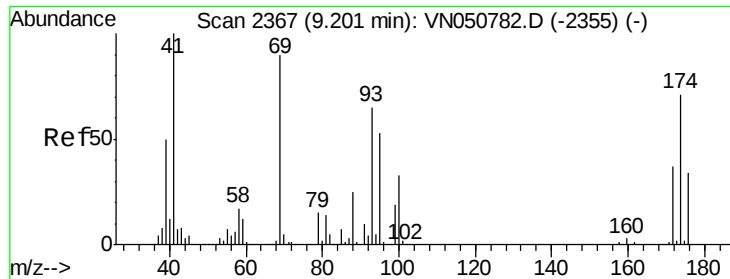
#43
Isopropyl Acetate
Concen: 22.55 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Tgt Ion: 43 Resp: 257330
Ion Ratio Lower Upper
43 100
61 19.1 17.5 26.3
87 13.1 11.3 16.9



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

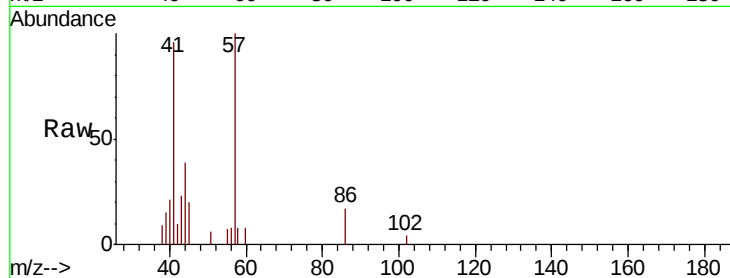




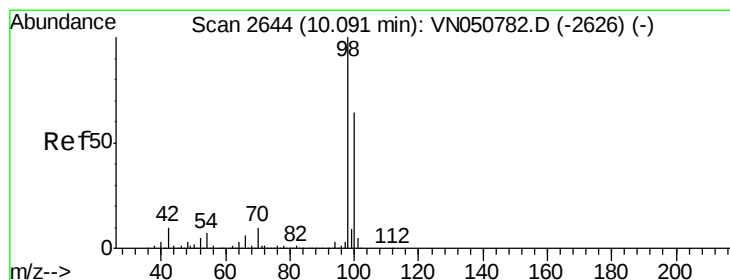
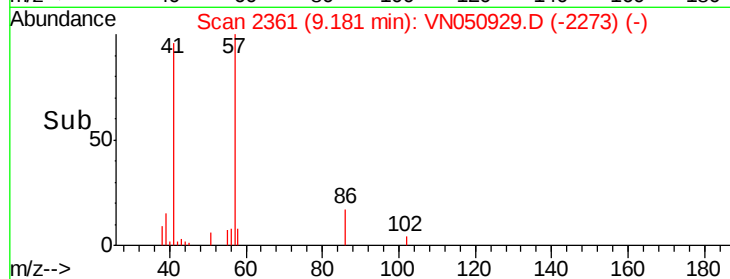
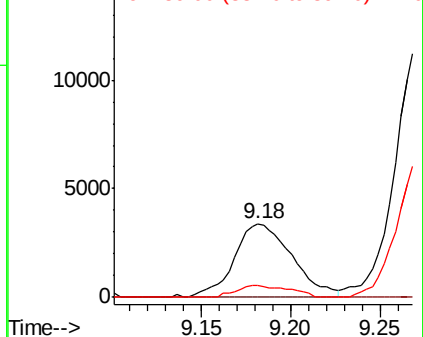
#48
Methyl methacrylate
Concen: 1.32 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Instrument :
MSVOA_N
ClientSampled :
OK-02-082718

Tot Ion: 41 Resp: 7687
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 14.3 42.2 63.2#

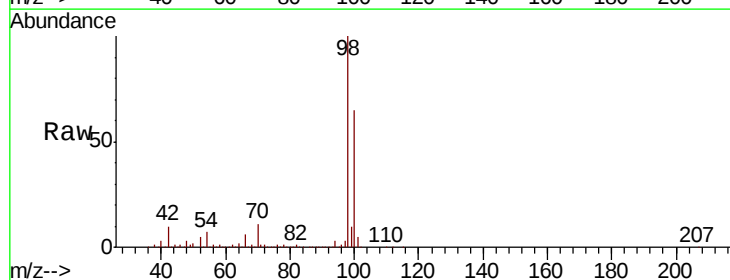


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

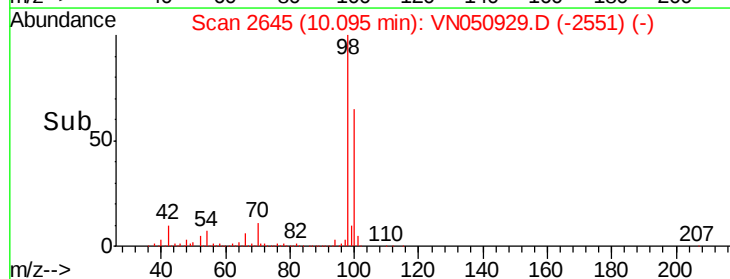
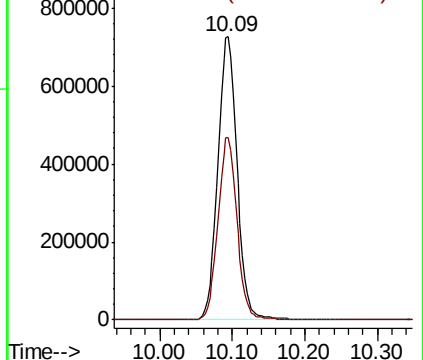


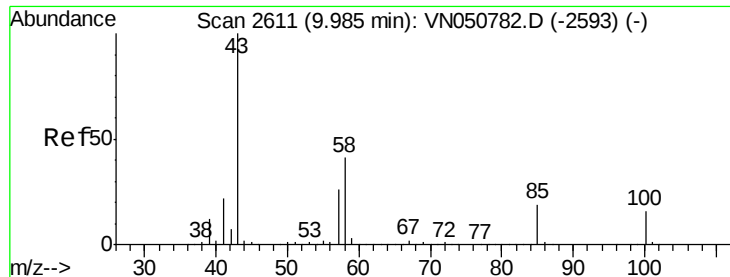
#50
Toluene-d8
Concen: 46.04 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Tgt Ion: 98 Resp: 1340999
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

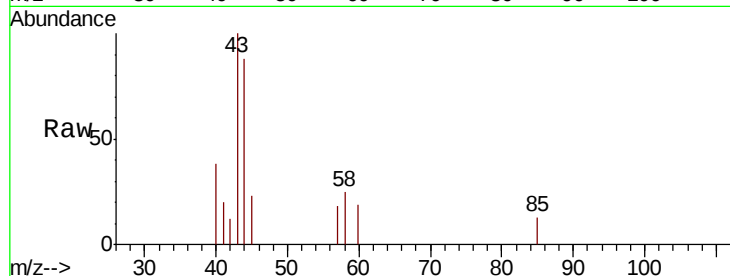
OK-02-082718

Tot Ion: 43 Resp: 2197

Ion Ratio Lower Upper

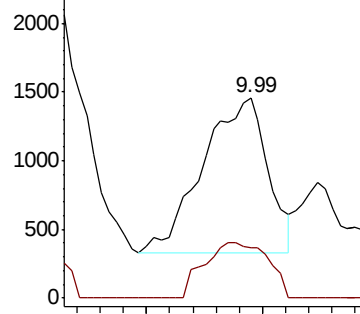
43 100

58 35.0 32.4 48.6

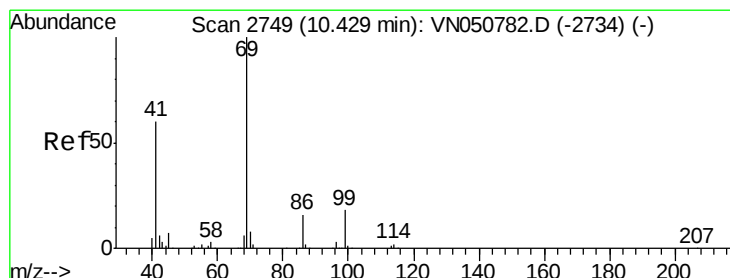
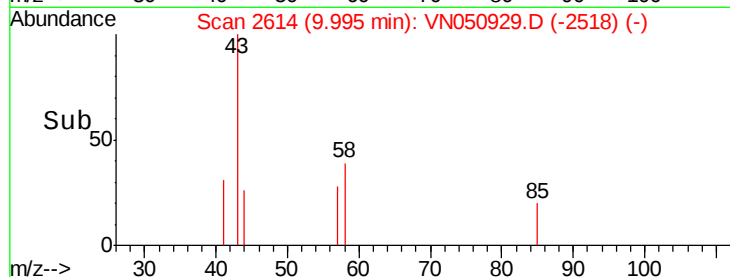


Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)

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



Time-->



#56

Ethyl methacrylate

Concen: 2.57 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

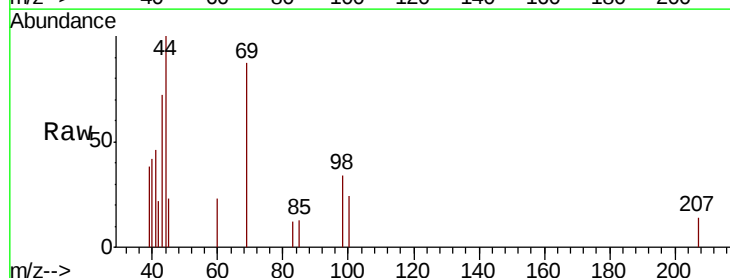
Tgt Ion: 69 Resp: 2302

Ion Ratio Lower Upper

69 100

41 62.1 48.3 72.5

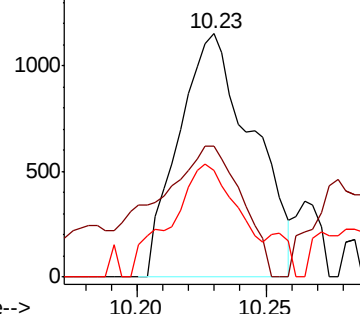
39 42.6 24.0 36.0#



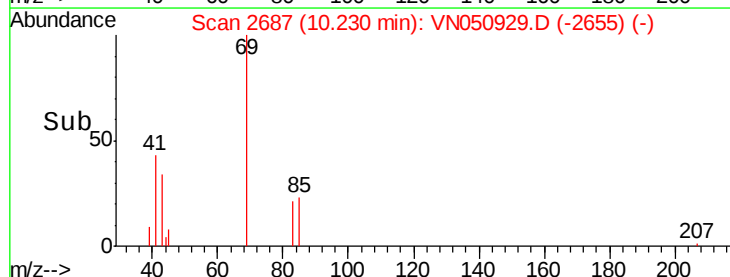
Abundance Ion 69.00 (68.70 to 69.70): VN050782.D (-2734) (-)

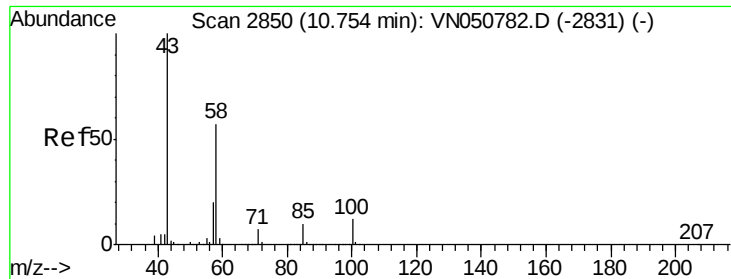
Ion 41.00 (40.70 to 41.70): VN050782.D (-2734) (-)

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



Time-->

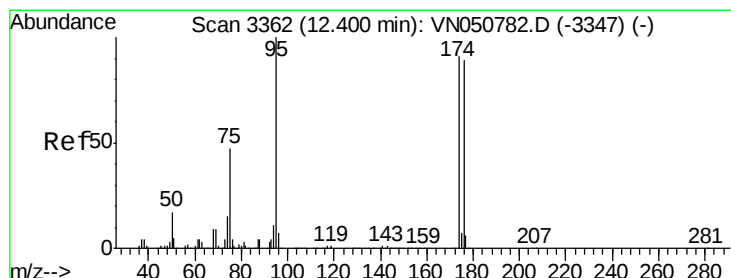
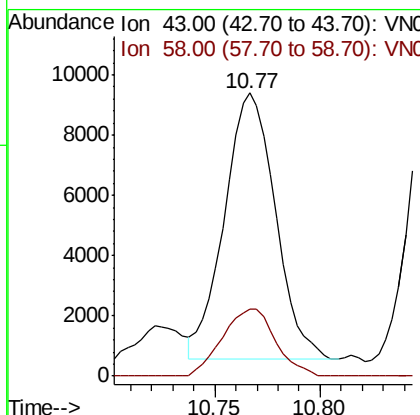
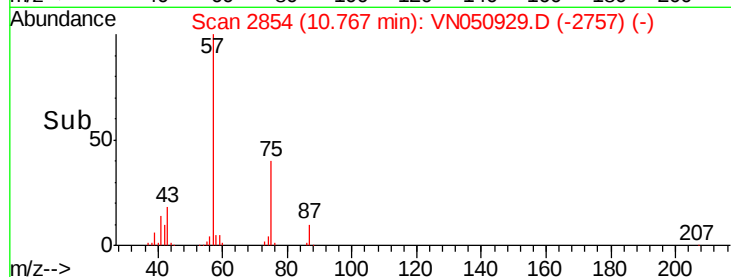
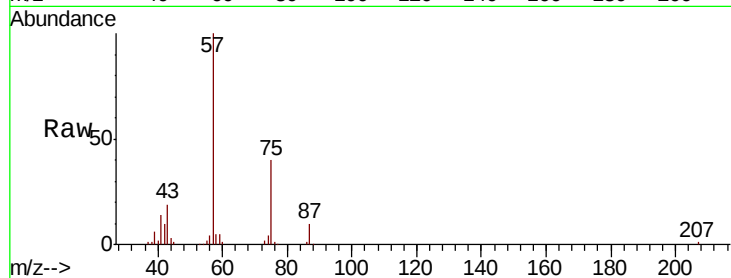




#59
2-Hexanone
Concen: 3.28 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

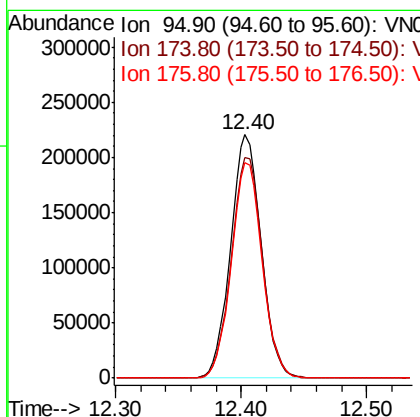
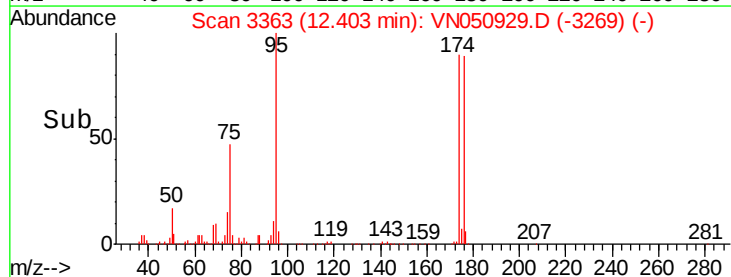
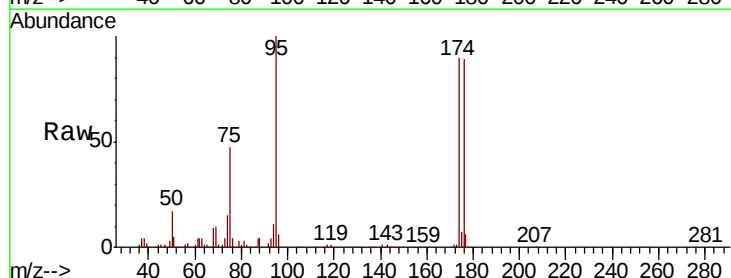
Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

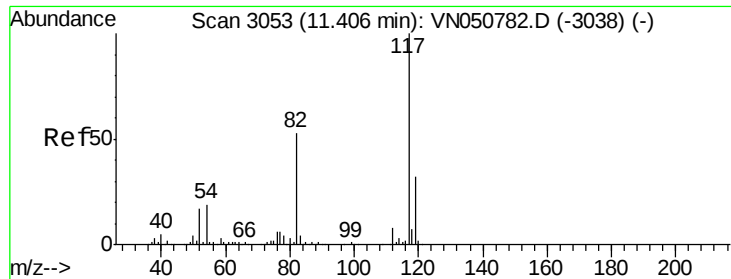
Tot Ion: 43 Resp: 14884
Ion Ratio Lower Upper
43 100
58 26.3 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 38.48 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Tgt Ion: 95 Resp: 372373
Ion Ratio Lower Upper
95 100
174 92.6 0.0 183.0
176 89.2 0.0 178.8

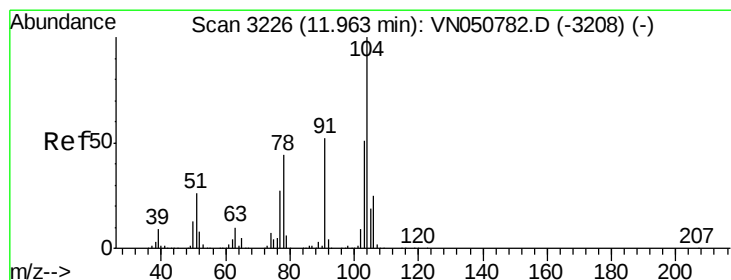
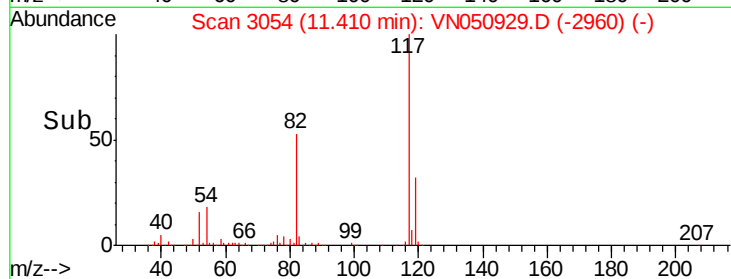
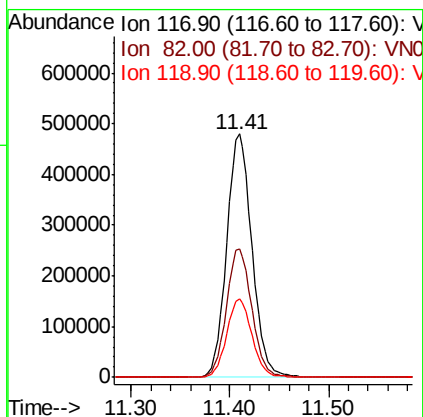
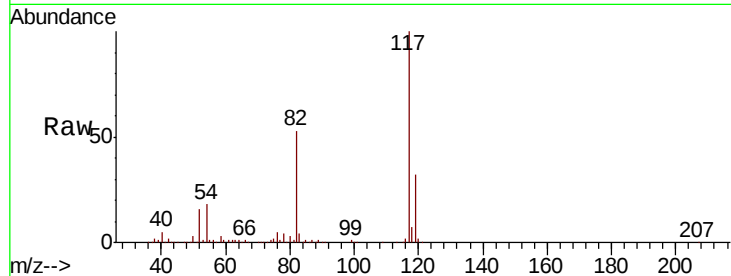




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

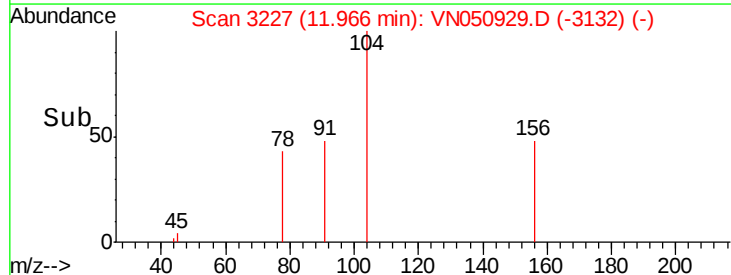
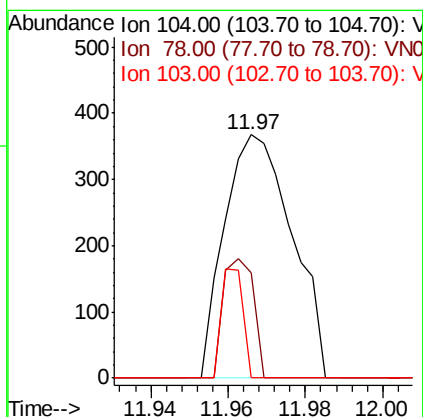
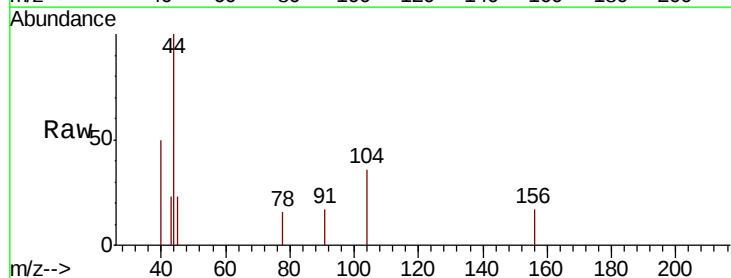
Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

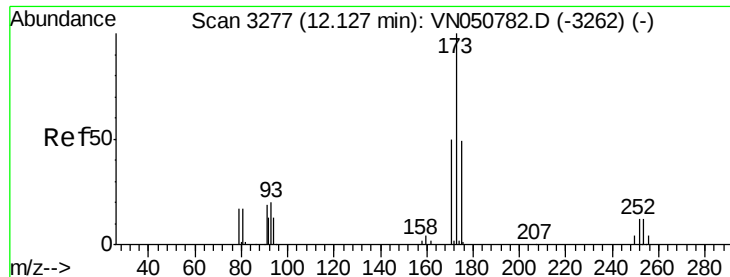
Tot Ion:117 Resp: 853684
Ion Ratio Lower Upper
117 100
82 53.0 42.6 64.0
119 32.0 25.8 38.6



#70
Styrene
Concen: 1.29 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Tgt Ion:104 Resp: 447
Ion Ratio Lower Upper
104 100
78 21.7 38.2 57.4#
103 14.3 44.4 66.6#





#71

Bromoform

Concen: 0.29 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

OK-02-082718

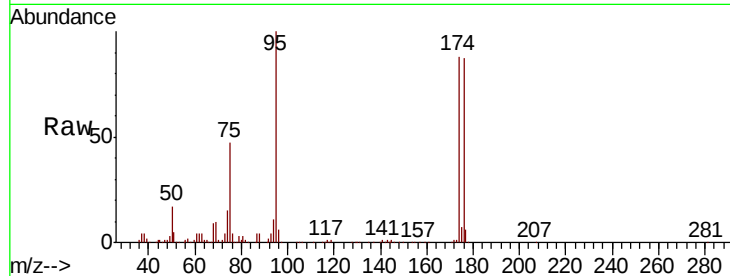
Tot Ion:173 Resp: 1629

Ion Ratio Lower Upper

173 100

175 1280.8 24.4 73.4#

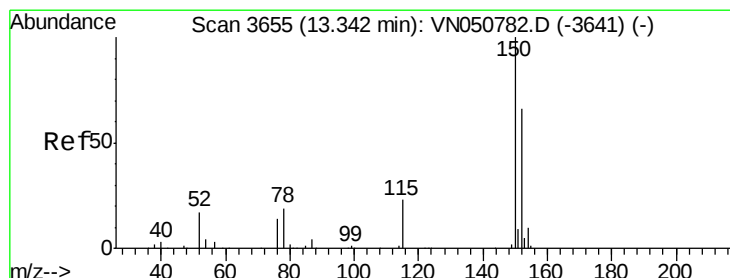
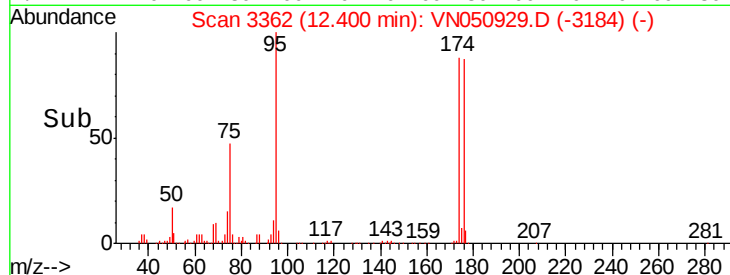
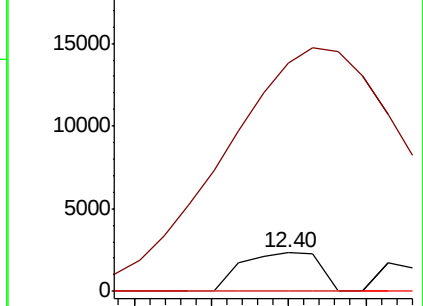
254 0.0 0.1 0.1#



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: VN050929.D

Acq: 28 Aug 2018 21:56

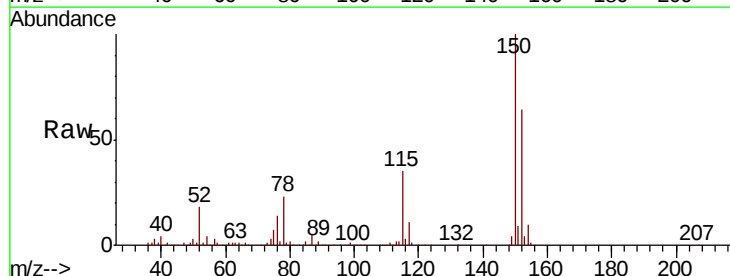
Tgt Ion:152 Resp: 297217

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.4

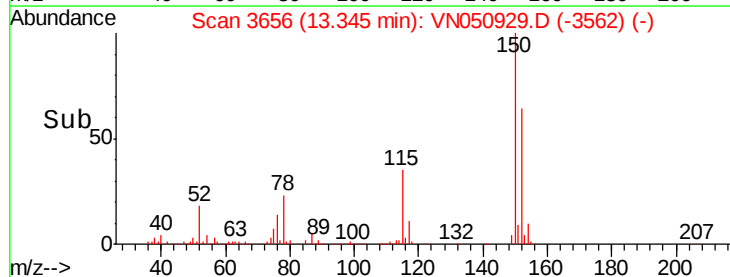
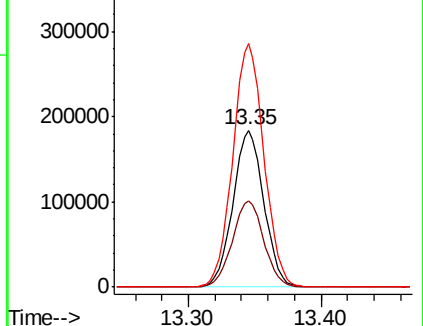
150 156.5 0.0 351.4

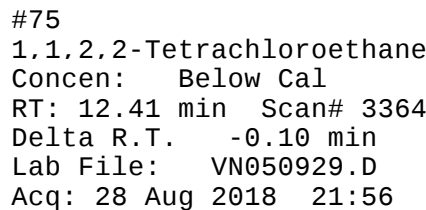


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

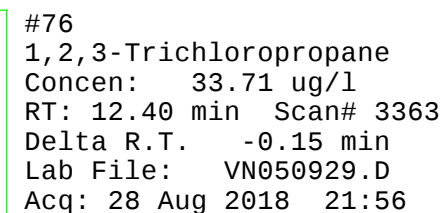
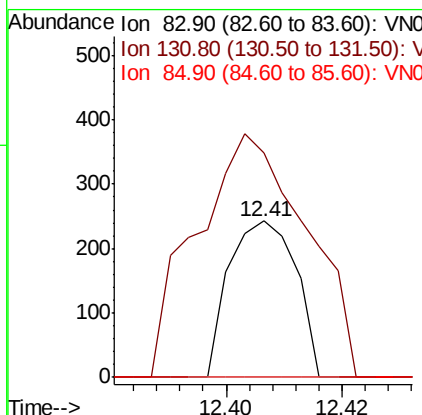
Ion 149.90 (149.60 to 150.60): V



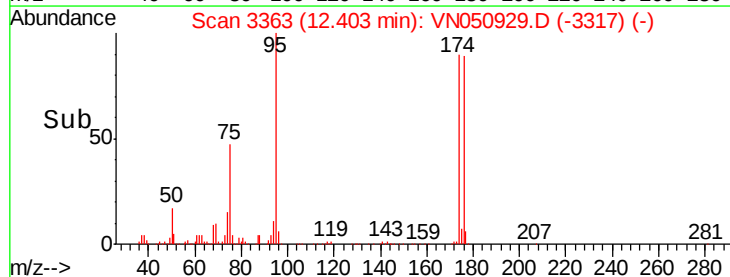
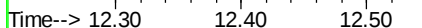
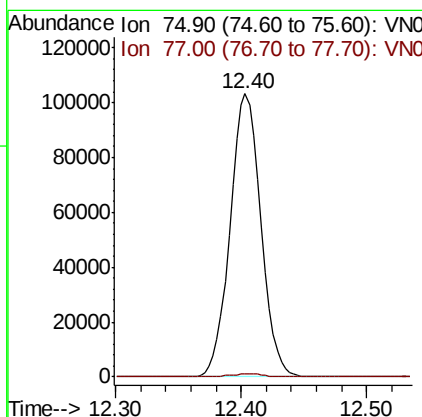


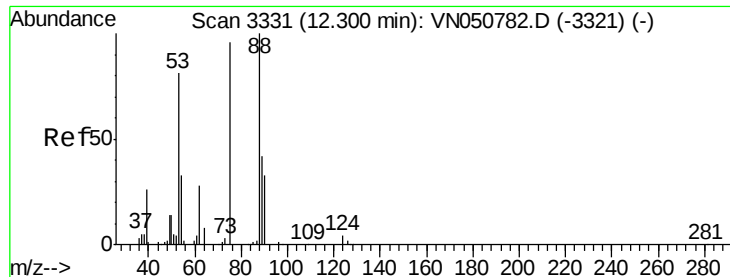
Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

Tot	Ion: 83	Resp:	194
Ion	Ratio	Lower	Upper
83	100		
131	256.7	5.3	15.9#
85	0.0	31.9	95.7#



Tgt	Ion: 75	Resp:	175473
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 113.95 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050929.D

Acq: 28 Aug 2018 21:56

Instrument :

MSVOA_N

ClientSampleId :

OK-02-082718

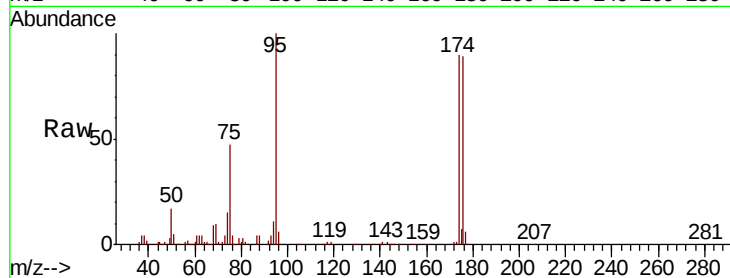
Tot Ion: 75 Resp: 175473

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

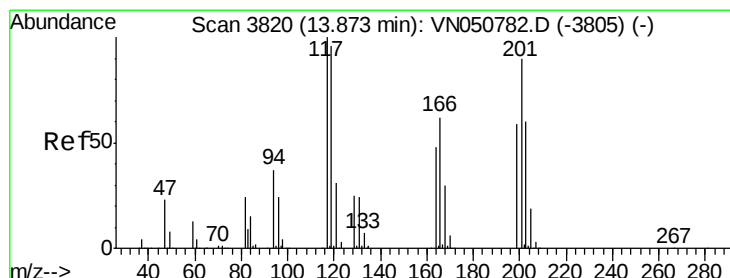
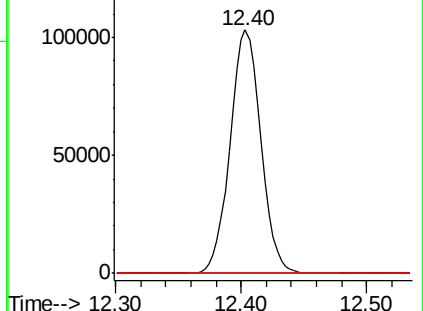
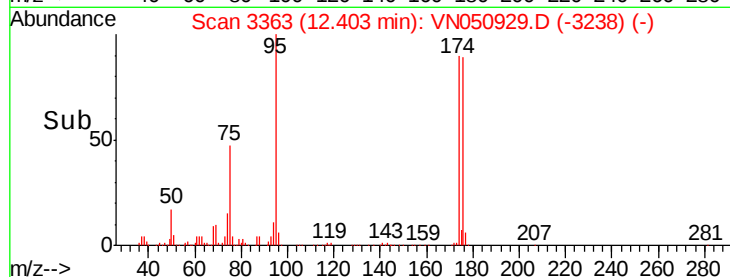
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#90

Hexachloroethane

Concen: 0.42 ug/l

RT: 13.99 min Scan# 3858

Delta R.T. 0.12 min

Lab File: VN050929.D

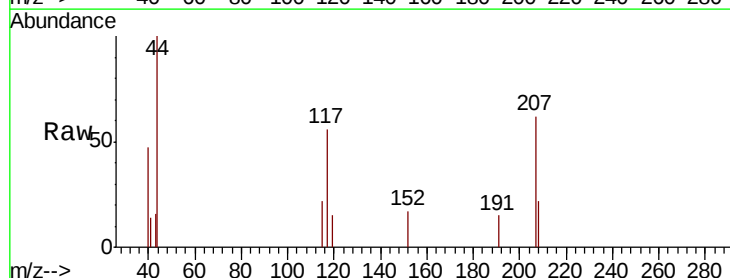
Acq: 28 Aug 2018 21:56

Tgt Ion: 117 Resp: 879

Ion Ratio Lower Upper

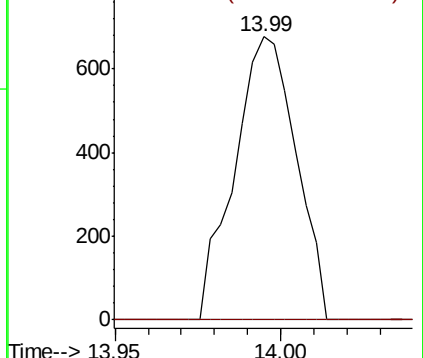
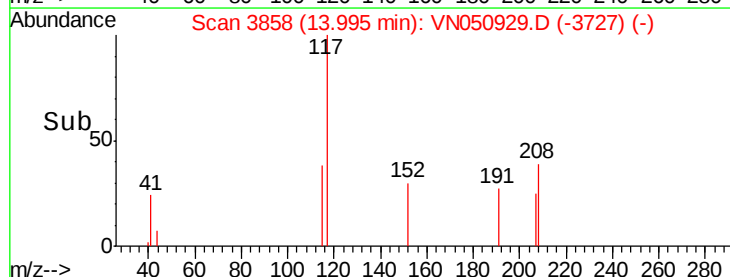
117 100

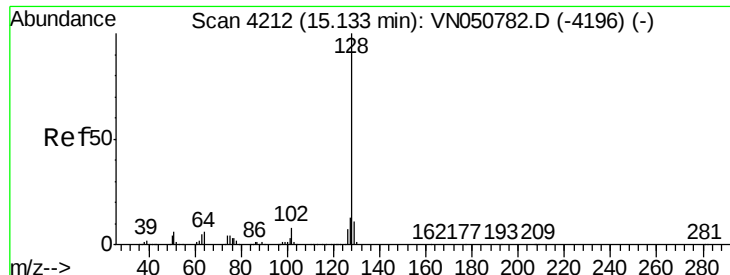
201 0.0 46.0 137.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 7.58 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050929.D
Acq: 28 Aug 2018 21:56

Instrument :
MSVOA_N
ClientSampleId :
OK-02-082718

Tot Ion	Ion	Ratio	Lower	Upper
128	128	100		
127	127	13.0	10.5	15.7
129	129	11.6	8.7	13.1

