

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050713.D
 Acq On : 16 Aug 2018 20:04
 Operator : MD\SY
 Sample : J4500-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 04:34:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	599113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1004811	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	863205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	316696	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	420669	55.70	ug/l	0.00
Spiked Amount			Recovery	=	111.40%	
35) Dibromofluoromethane	7.59	113	388783	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	10.09	98	1379029	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	12.40	95	376304	37.73	ug/l	0.00
Spiked Amount			Recovery	=	75.46%	

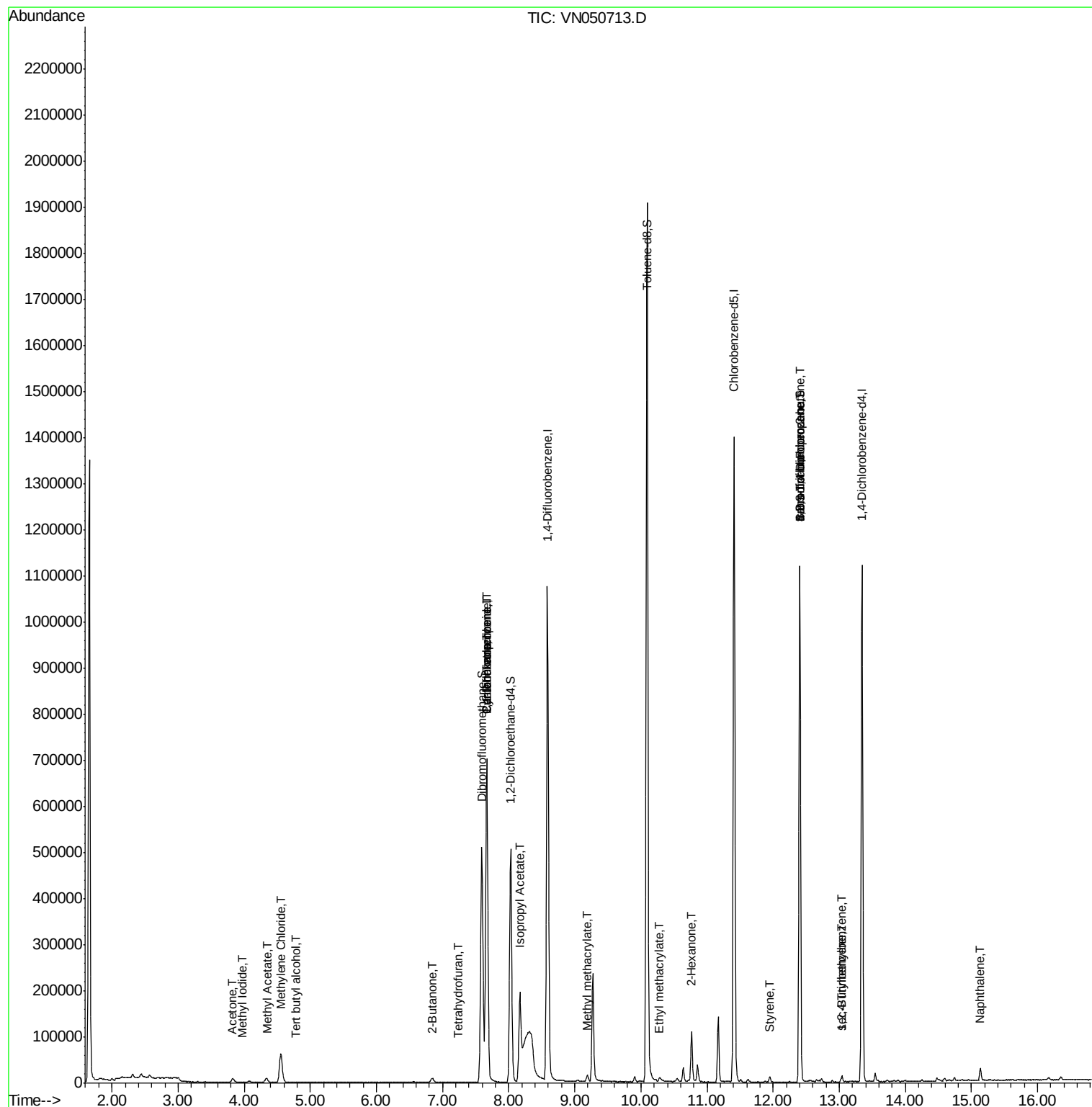
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2371	Below Cal		96
5) Bromomethane	2.57	94	2900	Below Cal		90
6) Chloroethane	2.68	64	29	Below Cal	#	43
10) Methyl Iodide	3.96	142	493	7.033	ug/l #	42
11) Tert butyl alcohol	4.79	59	236	0.572	ug/l #	72
13) Acrolein	3.62	56	31	Below Cal	#	14
16) Acetone	3.82	43	13922	5.968	ug/l	89
18) Methyl Acetate	4.33	43	18140	2.474	ug/l	99
20) Methylene Chloride	4.55	84	49559	5.780	ug/l	98
25) 2-Butanone	6.85	43	6883	2.223	ug/l	94
29) Tetrahydrofuran	7.23	42	493	0.305	ug/l #	59
31) Cyclohexane	7.67	56	10383	0.565	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41660	3.725	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53769	4.634	ug/l #	17
43) Isopropyl Acetate	8.17	43	244842	21.249	ug/l	95
48) Methyl methacrylate	9.18	41	8059	1.390	ug/l #	20
56) Ethyl methacrylate	10.27	69	150	1.920	ug/l #	1
59) 2-Hexanone	10.77	43	16827	3.346	ug/l	64
70) Styrene	11.96	104	61	0.943	ug/l #	1
71) Bromoform	12.40	173	1459	0.273	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	247	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	181179	35.103	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181179	127.188	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	7580	0.381	ug/l	96
85) sec-Butylbenzene	13.04	105	7580	0.337	ug/l #	56
95) Naphthalene	15.14	128	23358	5.630	ug/l	99

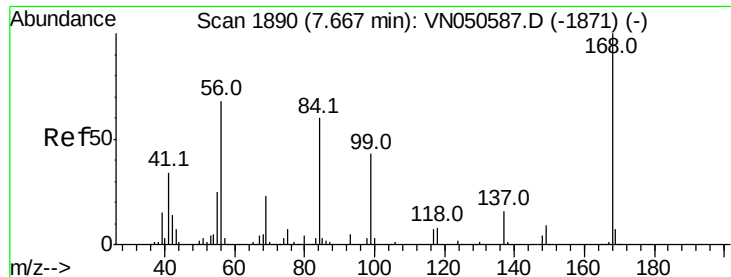
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

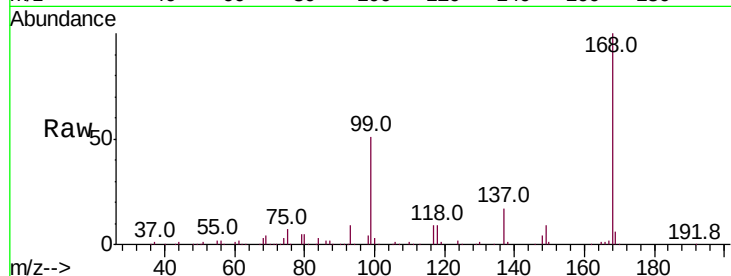
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 599113

Ion Ratio Lower Upper

168 100

99 50.7 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

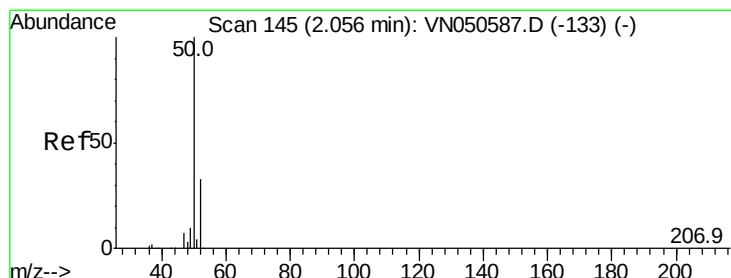
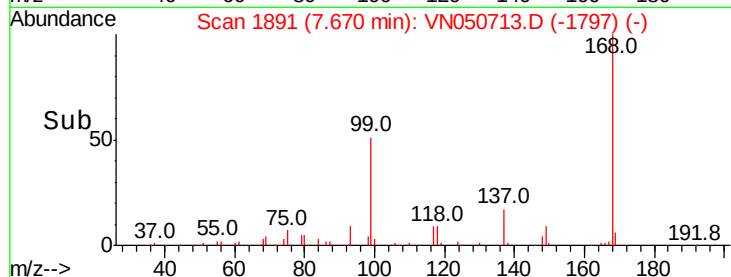
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050713.D

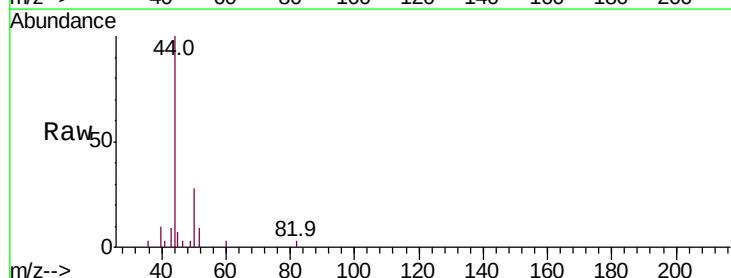
Acq: 16 Aug 2018 20:04

Tgt Ion: 50 Resp: 2371

Ion Ratio Lower Upper

50 100

52 30.2 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

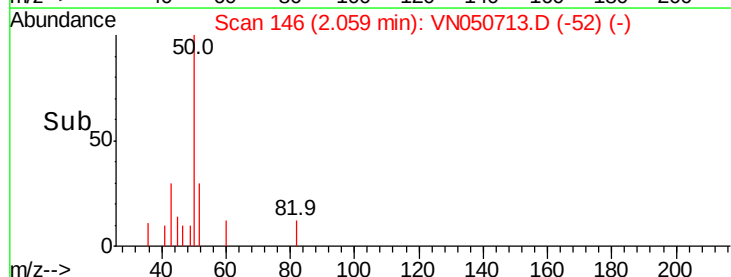
1500

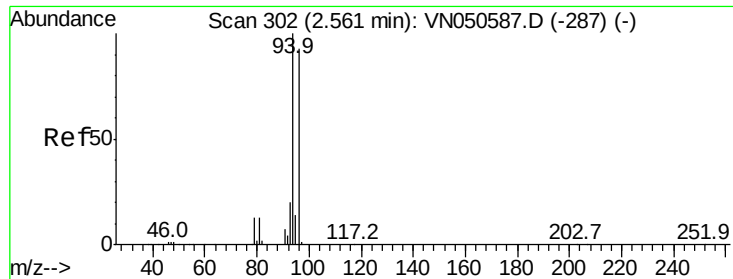
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

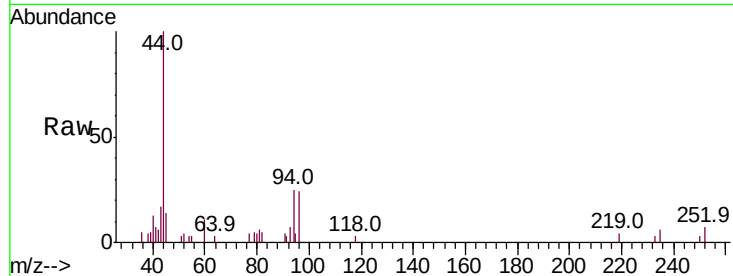
ClientSampled :

Tot Ion: 94 Resp: 2900

Ion Ratio Lower Upper

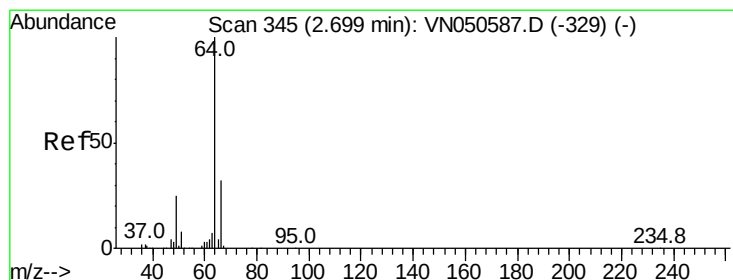
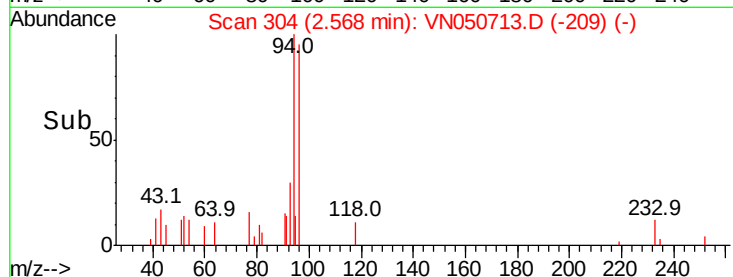
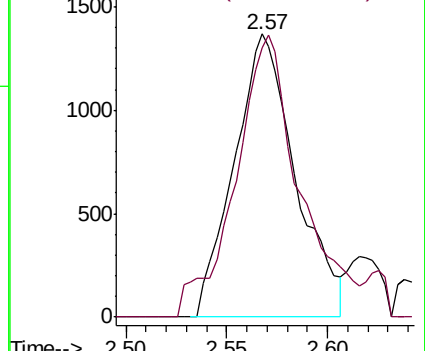
94 100

96 82.7 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 340

Delta R.T. -0.02 min

Lab File: VN050713.D

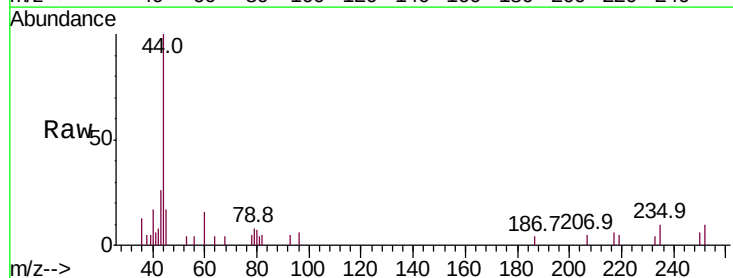
Acq: 16 Aug 2018 20:04

Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

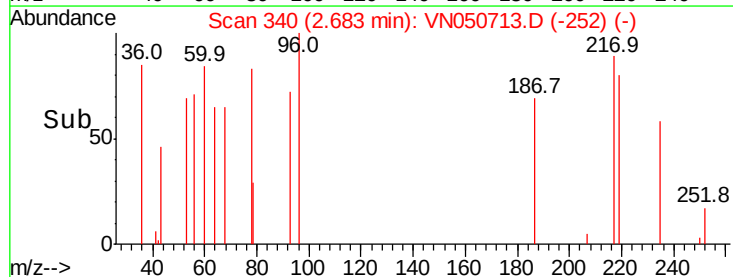
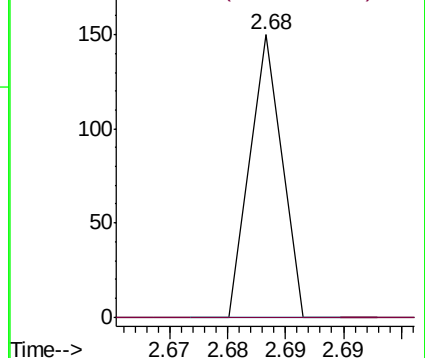
64 100

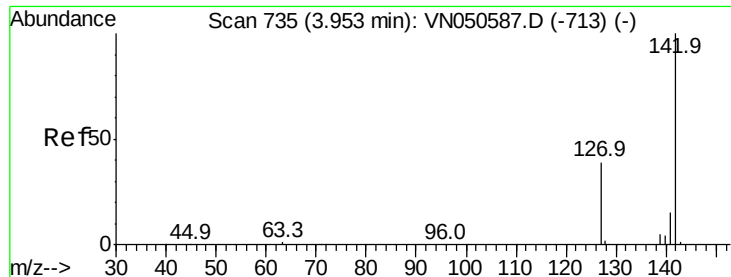
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

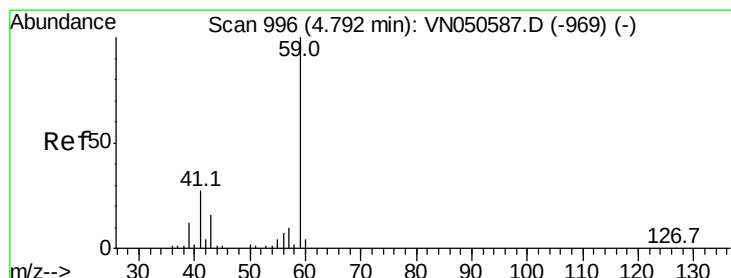
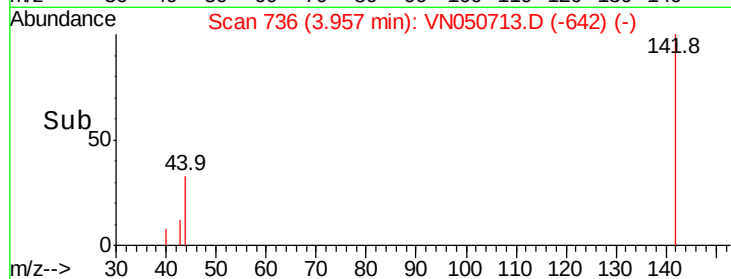
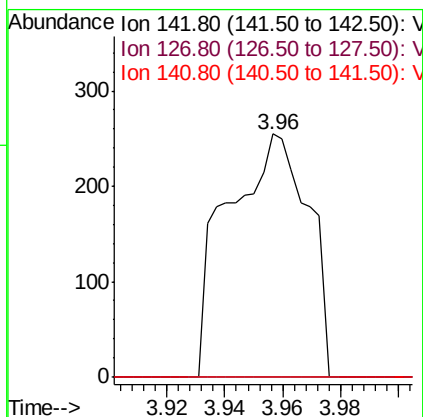
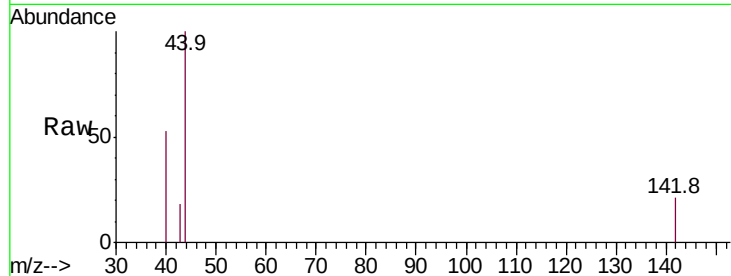




#10
Methvl Iodide
Concen: 7.033 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

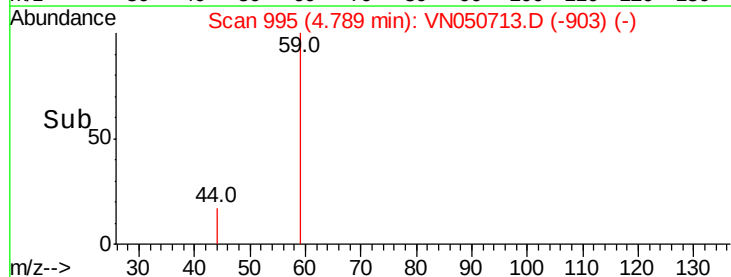
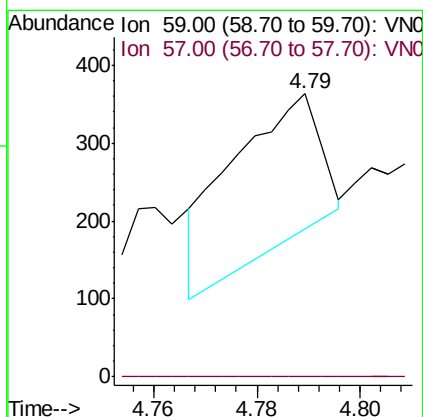
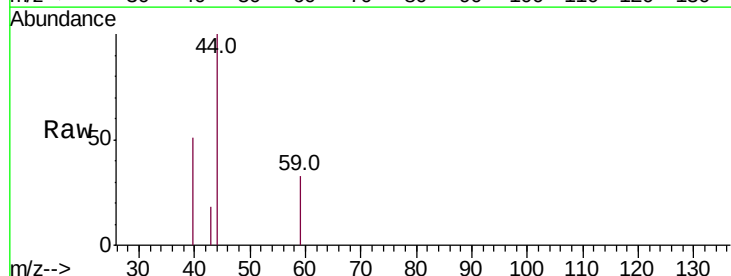
Instrument :
MSVOA_N
ClientSampleId :

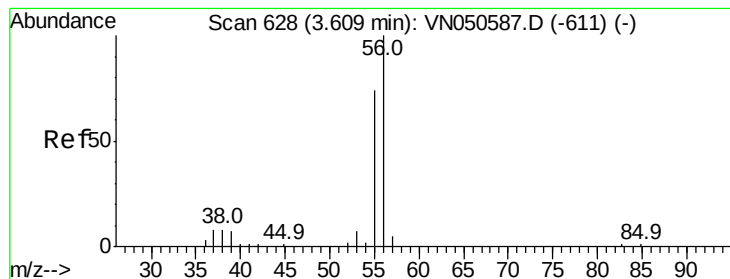
Tot Ion:142 Resp: 493
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.572 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Tgt Ion: 59 Resp: 236
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

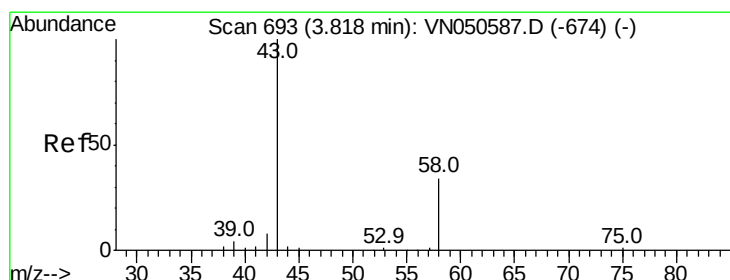
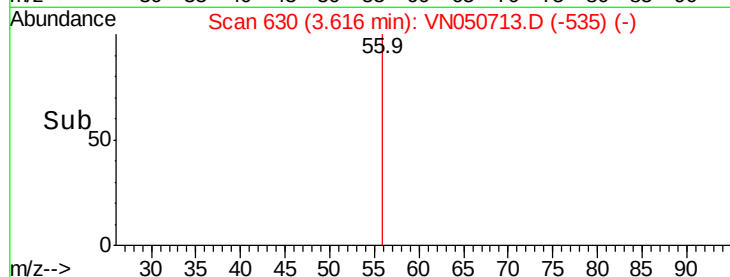
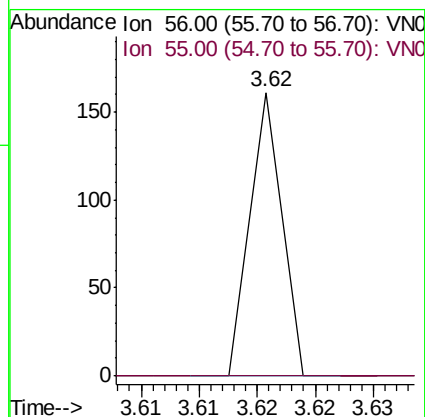
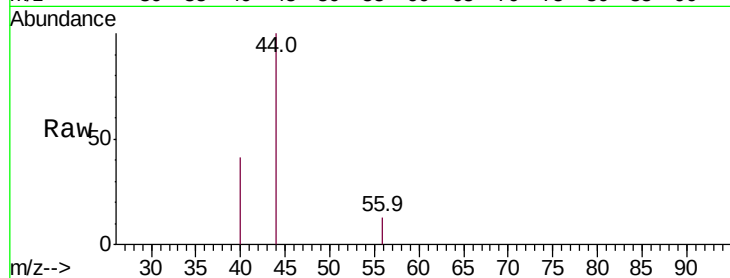
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 0.0 56.3 84.5#



#16

Acetone

Concen: 5.968 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050713.D

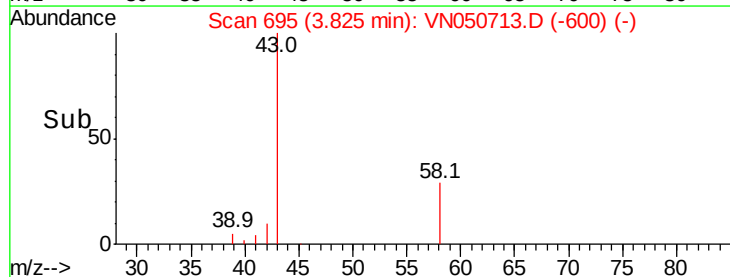
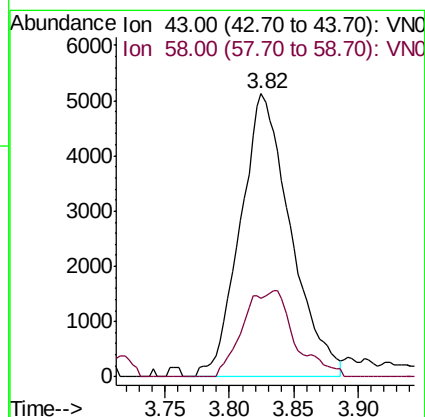
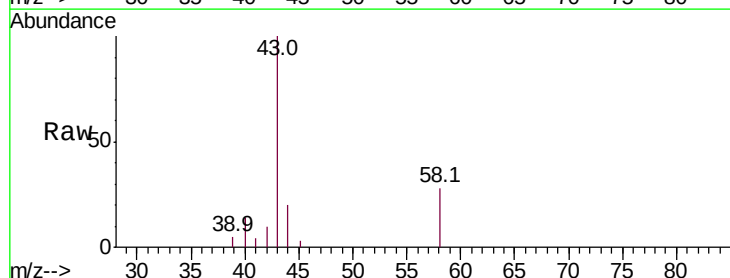
Acq: 16 Aug 2018 20:04

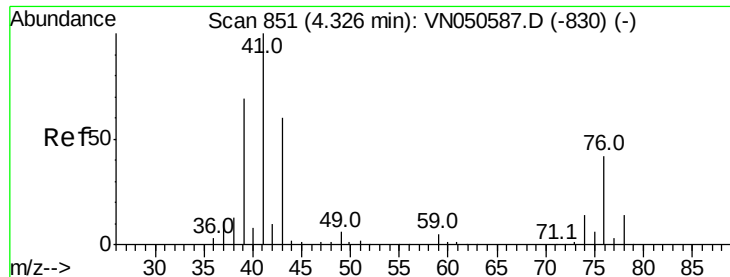
Tgt Ion: 43 Resp: 13922

Ion Ratio Lower Upper

43 100

58 27.7 27.1 40.7

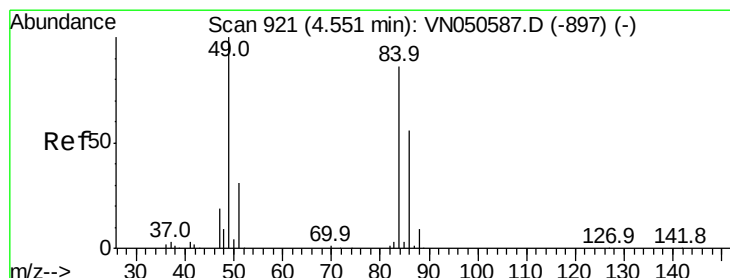
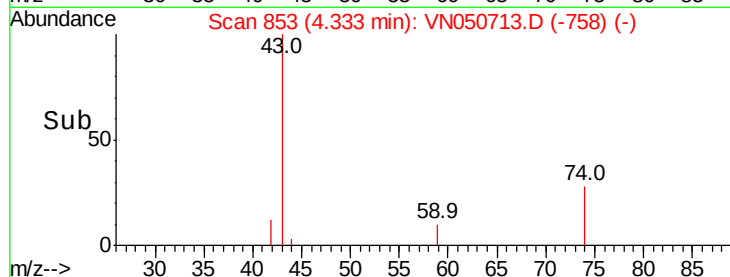
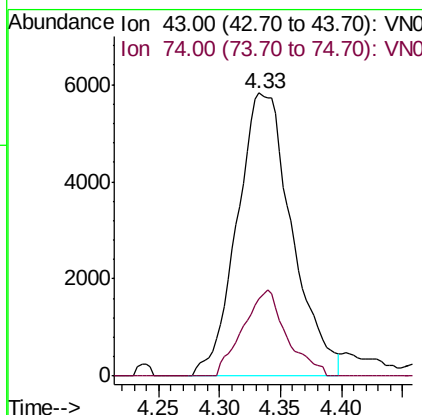
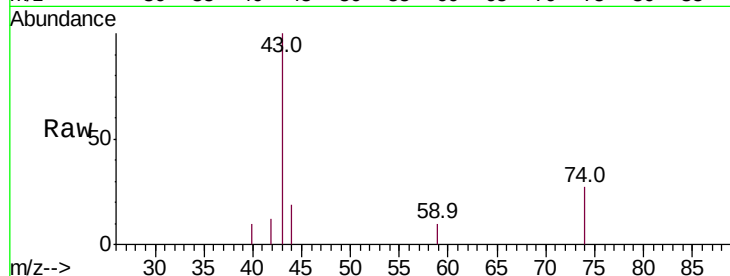




#18
Methyl Acetate
Concen: 2.474 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

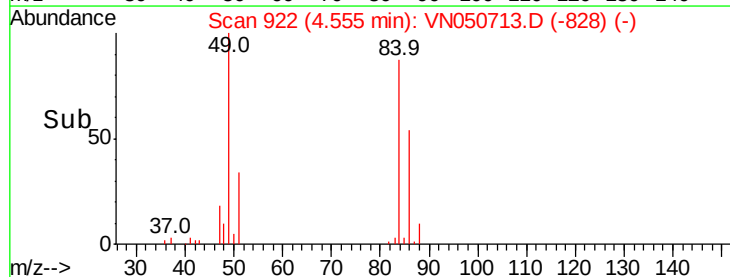
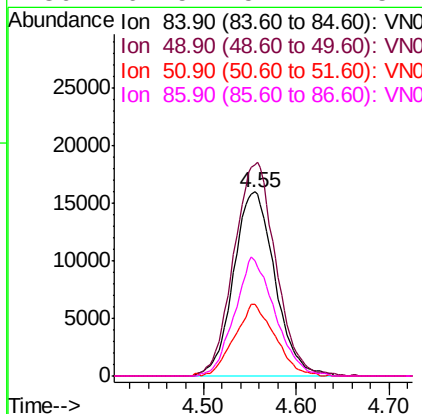
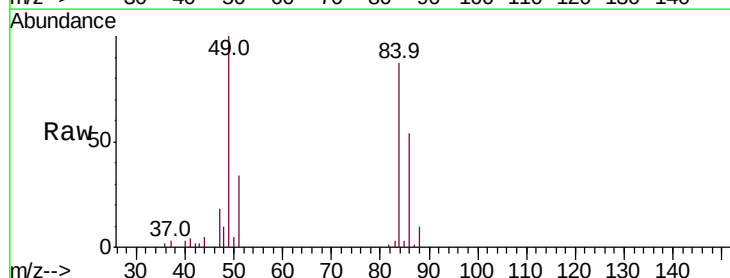
Instrument :
MSVOA_N
ClientSampled :

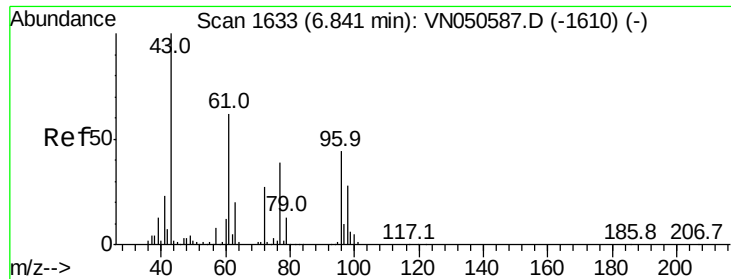
Tot Ion: 43 Resp: 18140
Ion Ratio Lower Upper
43 100
74 24.3 19.7 29.5



#20
Methylene Chloride
Concen: 5.780 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Tgt Ion: 84 Resp: 49559
Ion Ratio Lower Upper
84 100
49 115.1 92.6 138.8
51 39.1 28.6 43.0
86 62.5 52.2 78.2

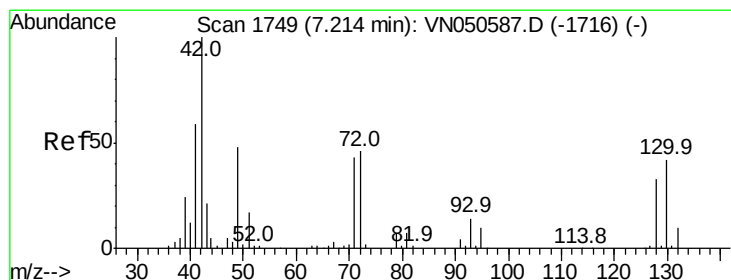
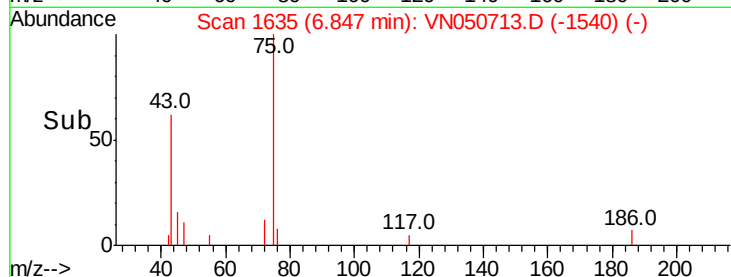
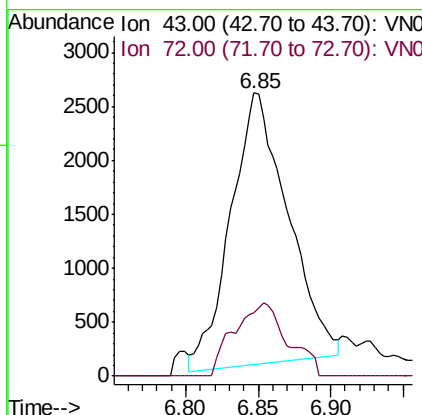
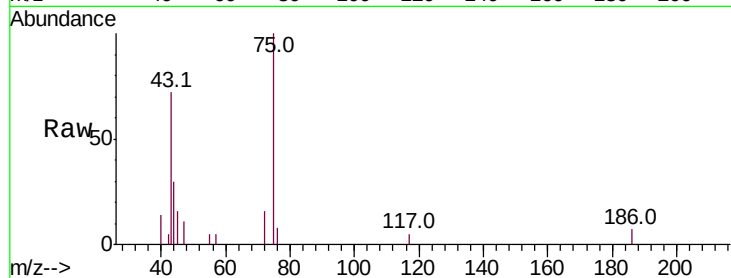




#25
 2-Butanone
 Concen: 2.223 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

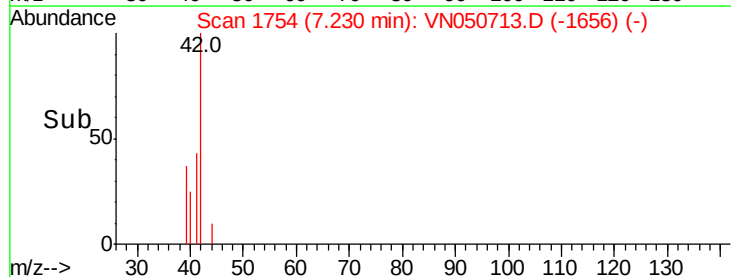
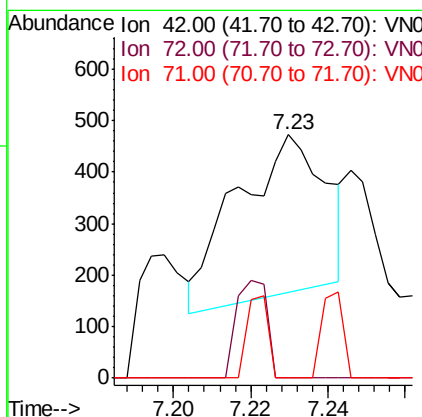
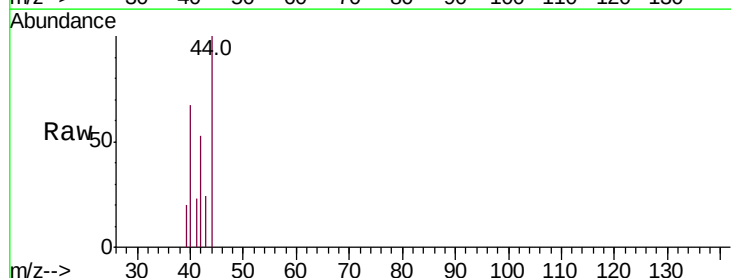
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 MSVOA_N
 ClientSampled :

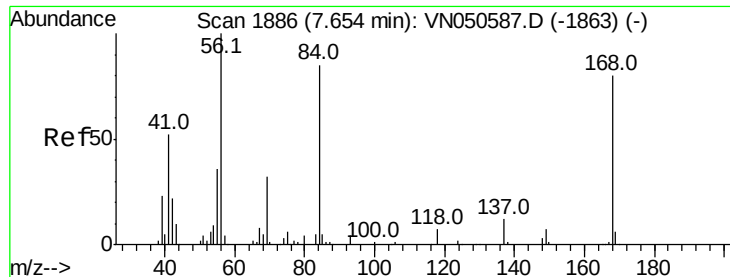
Tot Ion: 43 Resp: 6883
 Ion Ratio Lower Upper
 43 100
 72 24.2 21.8 32.6



#29
 Tetrahydrofuran
 Concen: 0.305 ug/l
 RT: 7.23 min Scan# 1754
 Delta R.T. 0.02 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

Tgt Ion: 42 Resp: 493
 Ion Ratio Lower Upper
 42 100
 72 20.9 35.8 53.6#
 71 12.4 33.4 50.0#

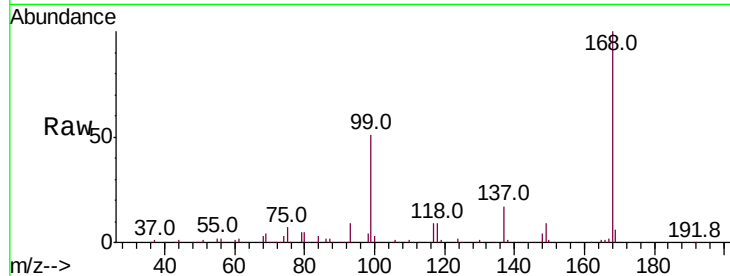




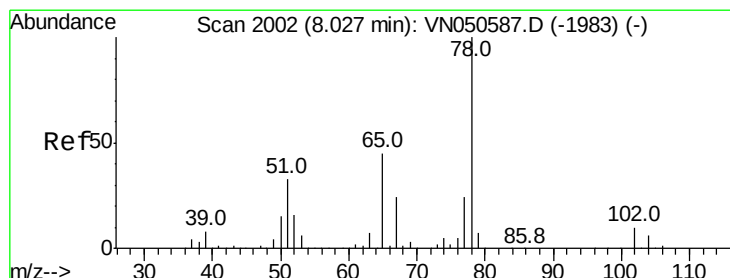
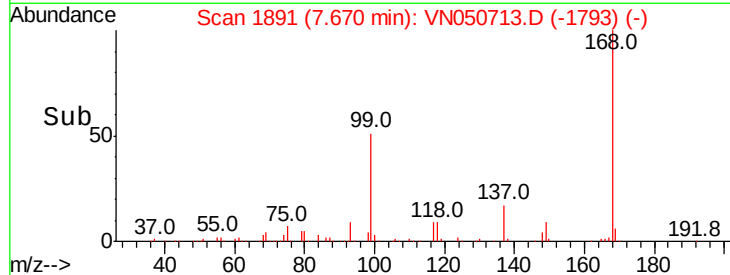
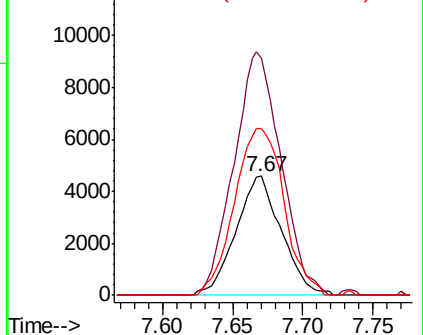
#31
Cyclohexane
Concen: 0.565 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10383
Ion Ratio Lower Upper
56 100
69 199.6 25.8 38.6#
84 140.9 67.8 101.6#

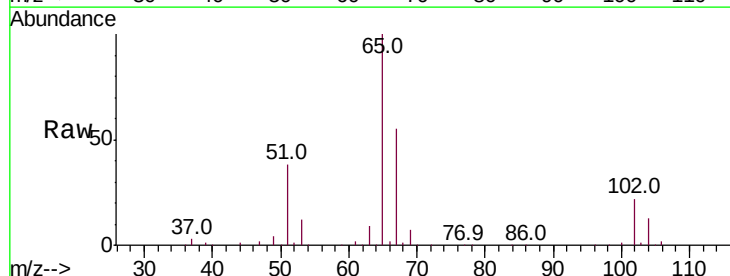


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

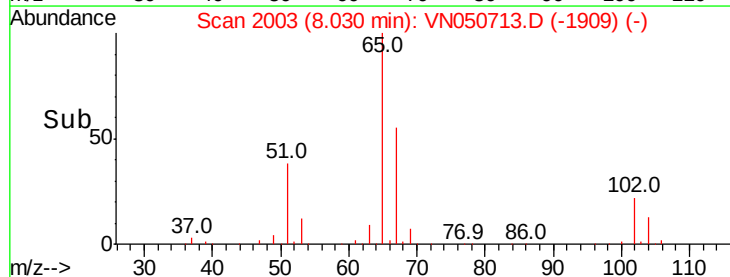
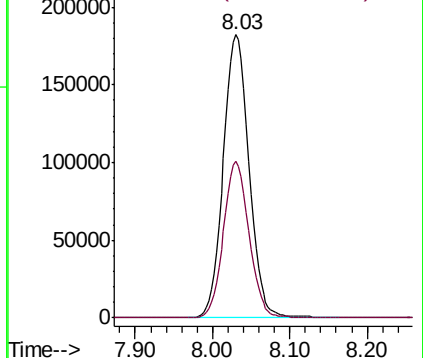


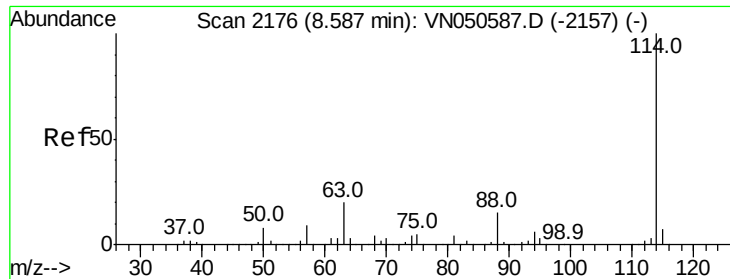
#33
1,2-Dichloroethane-d4
Concen: 55.704 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Tgt Ion: 65 Resp: 420669
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.8



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



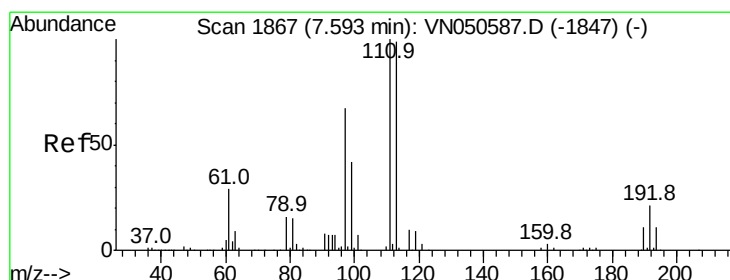
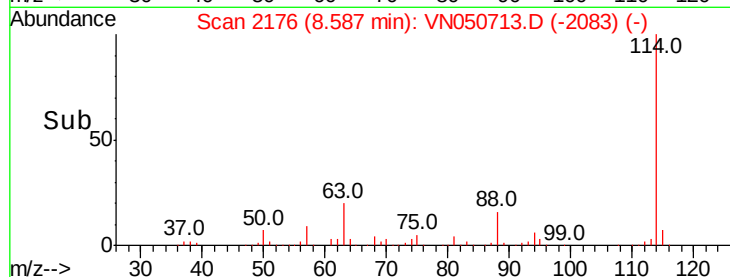
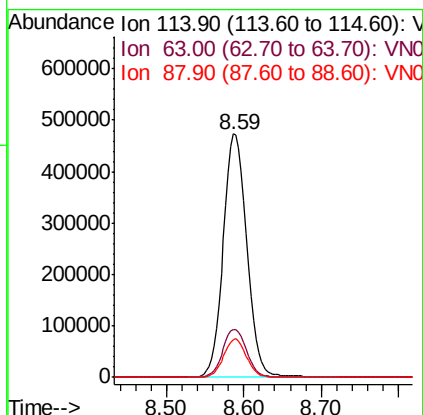
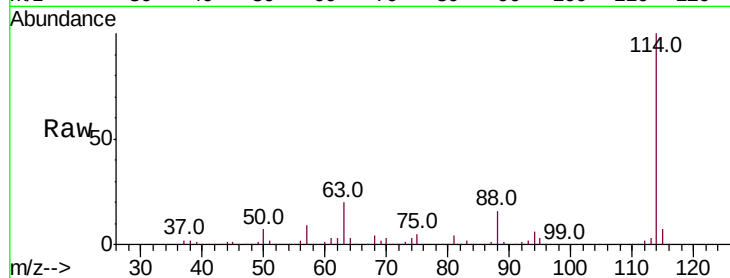


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1004811

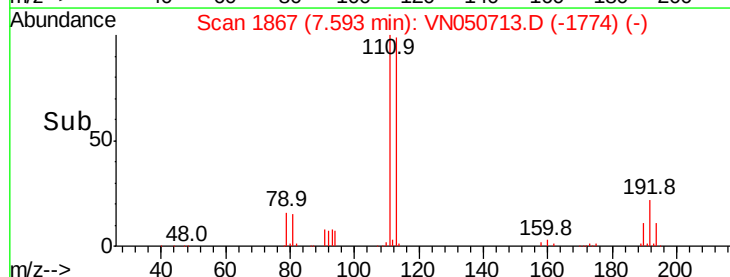
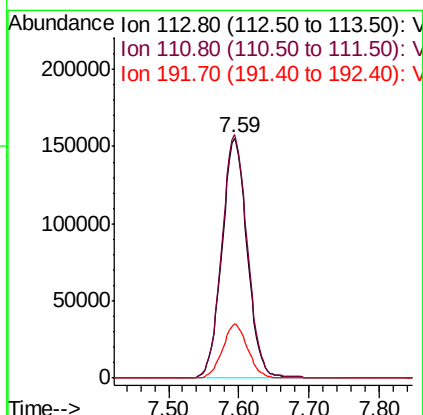
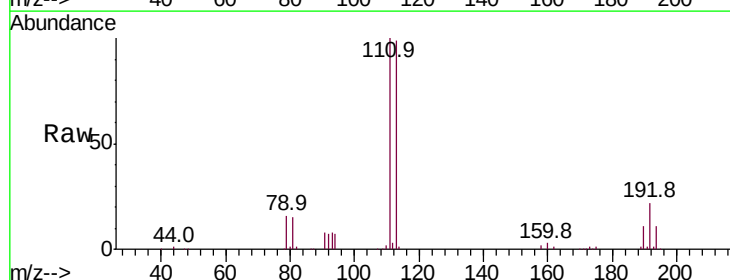
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.0
88	15.5	0.0	30.8

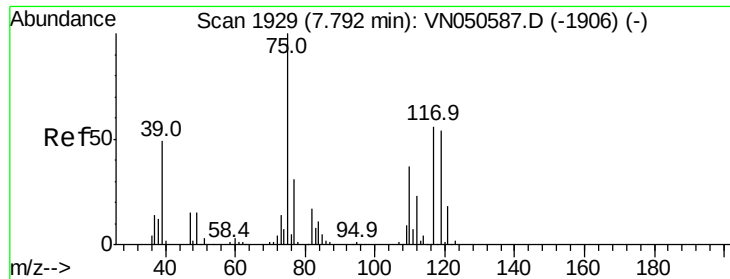


#35
 Dibromofluoromethane
 Concen: 48.464 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

Tgt Ion:113 Resp: 388783

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.6
192	22.4	17.6	26.4

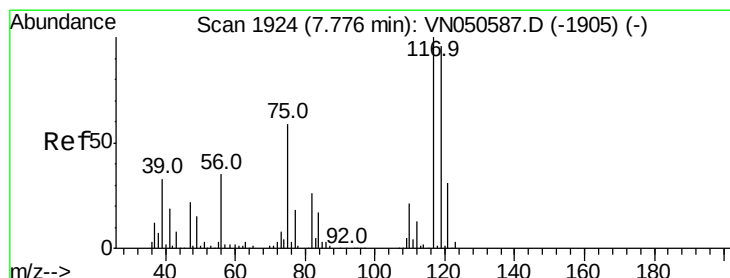
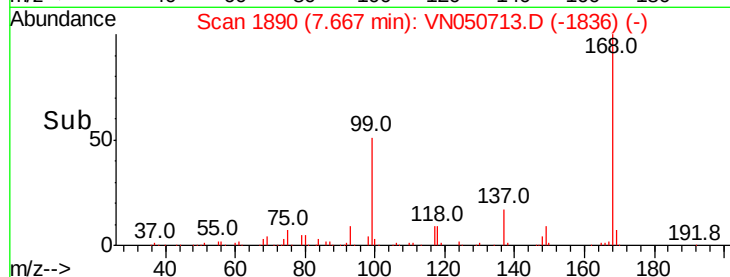
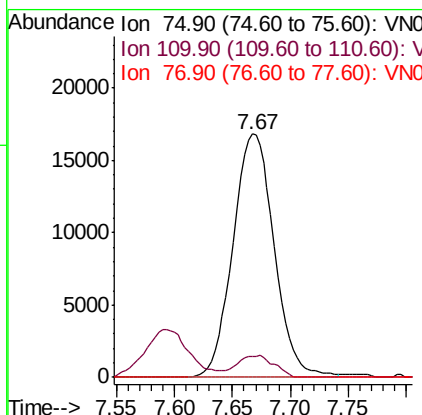
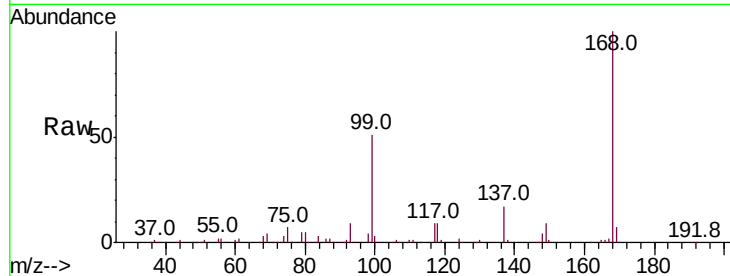




#36
 1,1-Dichloropropene
 Concen: 3.725 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

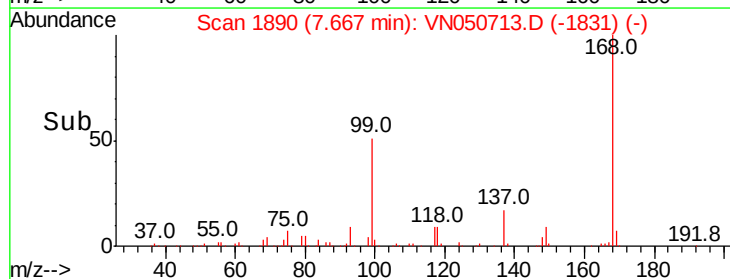
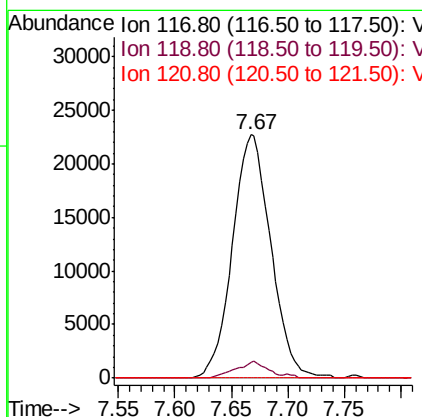
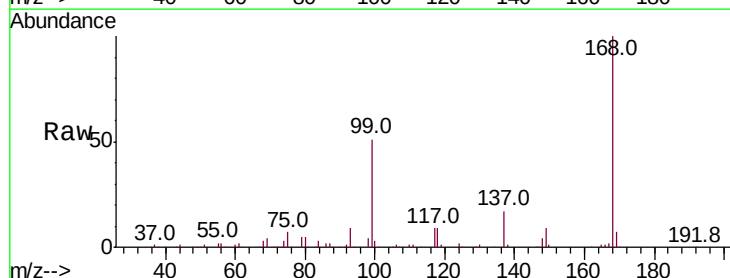
Instrument :
 MSVOA_N
 ClientSampled :

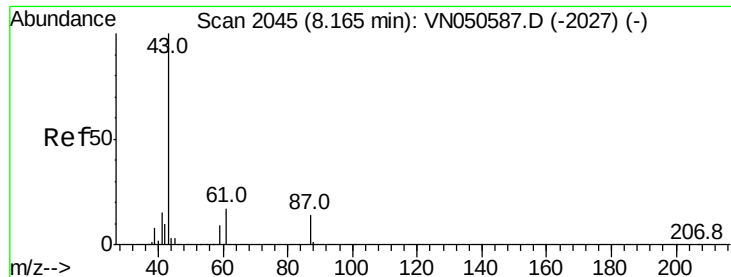
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.634 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050713.D
 Acq: 16 Aug 2018 20:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.6	115.0#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 21.249 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

ClientSampled :

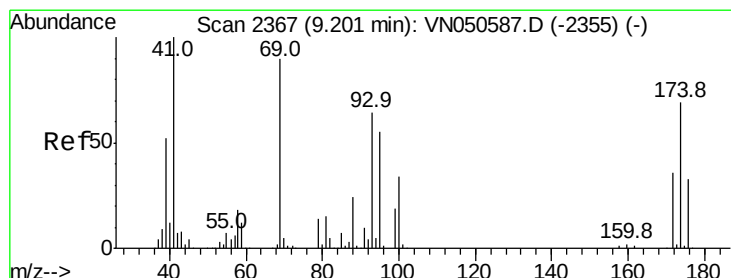
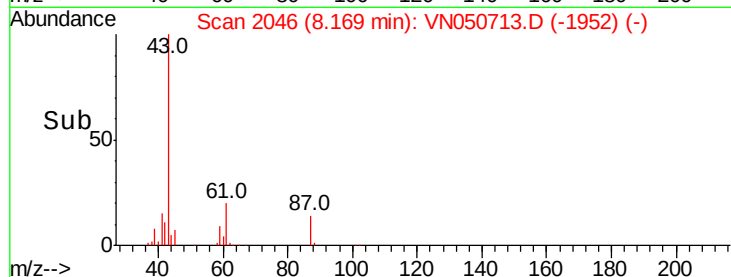
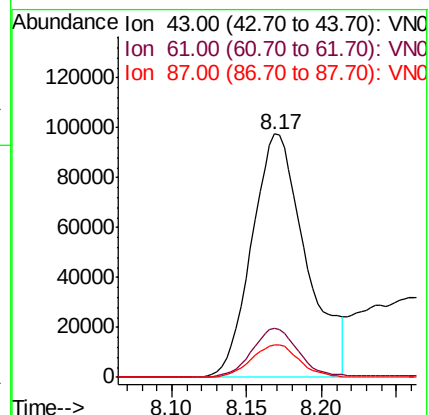
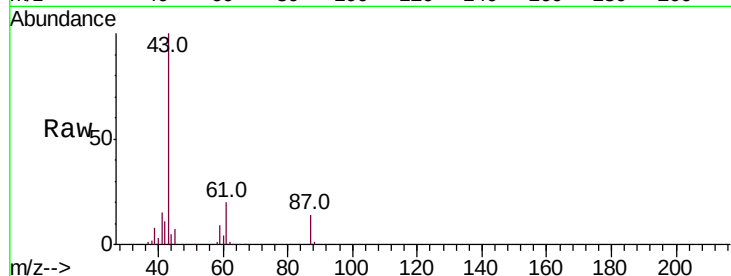
Tot Ion: 43 Resp: 244842

Ion Ratio Lower Upper

43 100

61 17.7 16.2 24.2

87 11.9 10.9 16.3



#48

Methyl methacrylate

Concen: 1.390 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

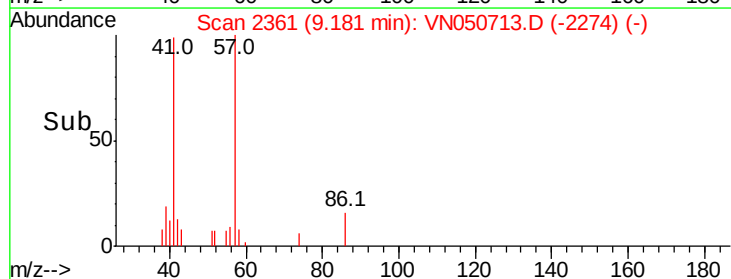
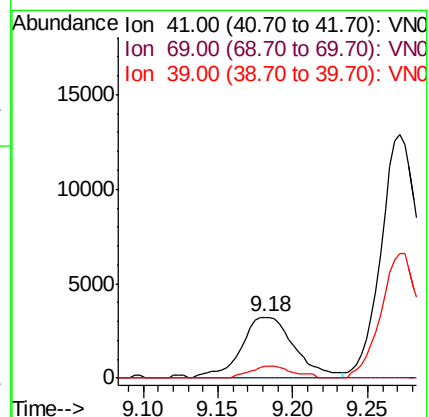
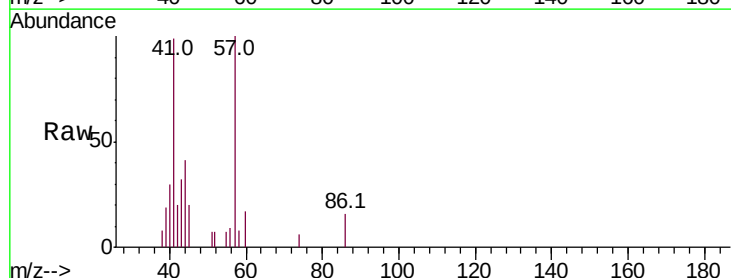
Tgt Ion: 41 Resp: 8059

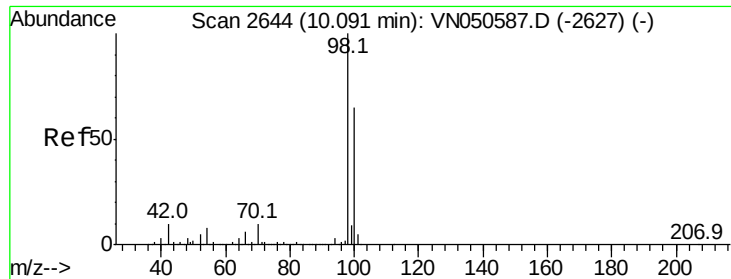
Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

39 15.9 43.0 64.6#

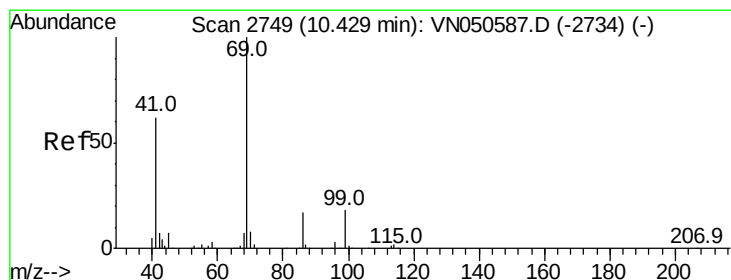
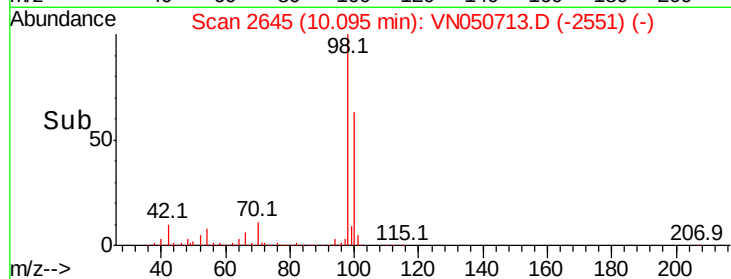
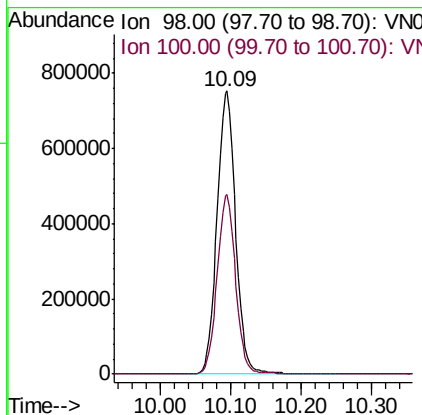
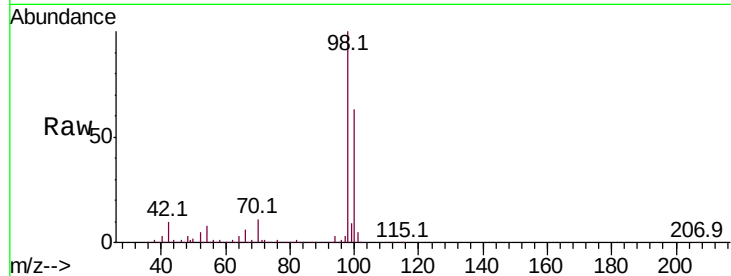




#50
Toluene-d8
Concen: 45.676 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

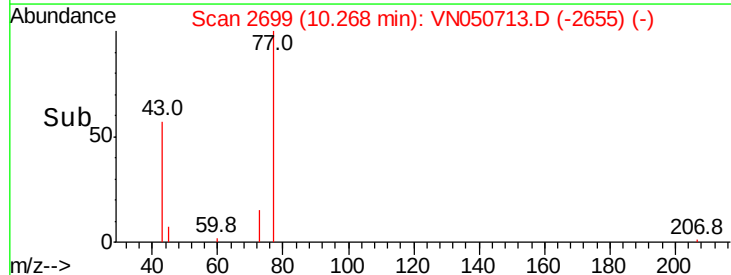
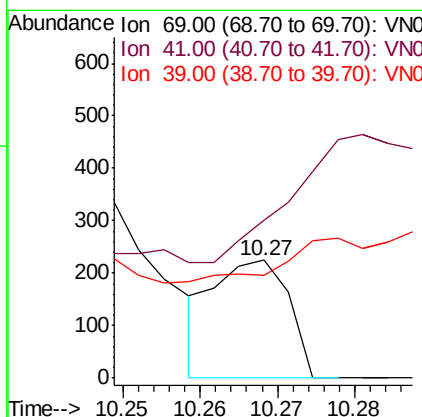
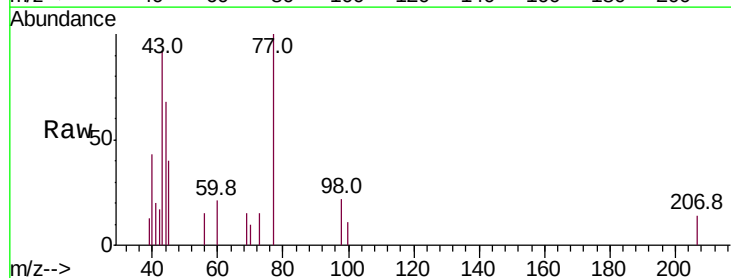
Instrument :
MSVOA_N
ClientSampleId :

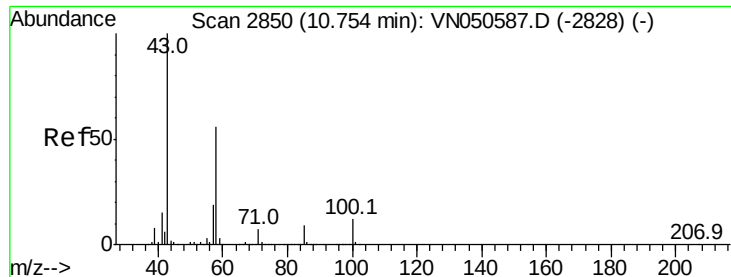
Tot Ion: 98 Resp: 1379029
Ion Ratio Lower Upper
98 100
100 63.2 51.8 77.8



#56
Ethyl methacrylate
Concen: 1.920 ug/l
RT: 10.27 min Scan# 2699
Delta R.T. -0.16 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Tgt Ion: 69 Resp: 150
Ion Ratio Lower Upper
69 100
41 674.7 49.7 74.5#
39 0.0 24.2 36.2#





#59

2-Hexanone

Concen: 3.346 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

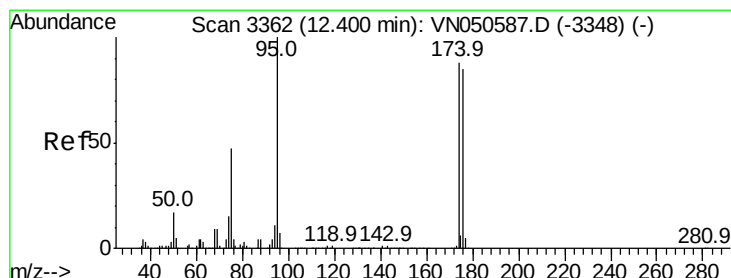
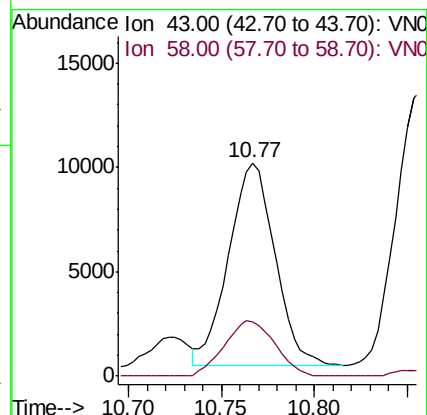
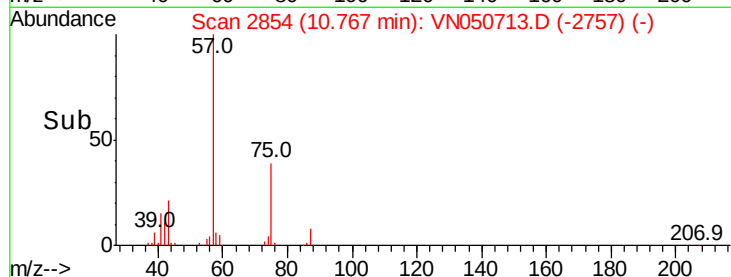
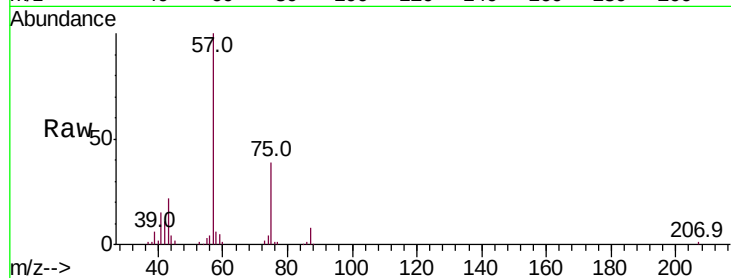
ClientSampleId :

Tot Ion: 43 Resp: 16827

Ion Ratio Lower Upper

43 100

58 29.6 28.0 84.0



#62

4-Bromofluorobenzene

Concen: 37.728 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

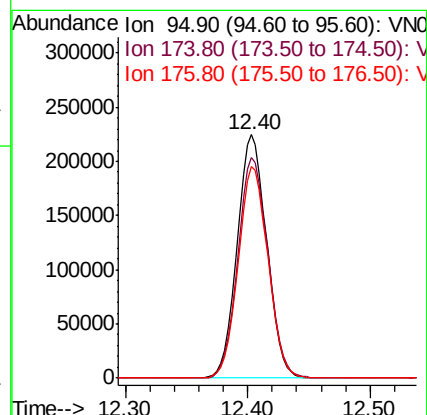
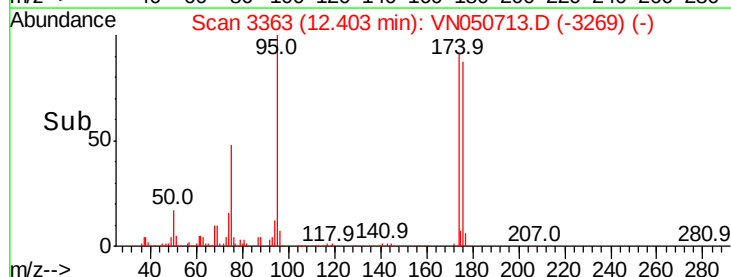
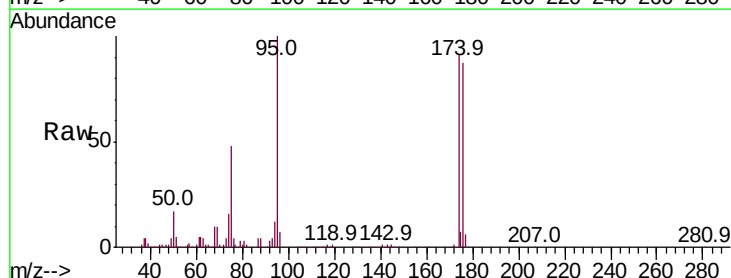
Tgt Ion: 95 Resp: 376304

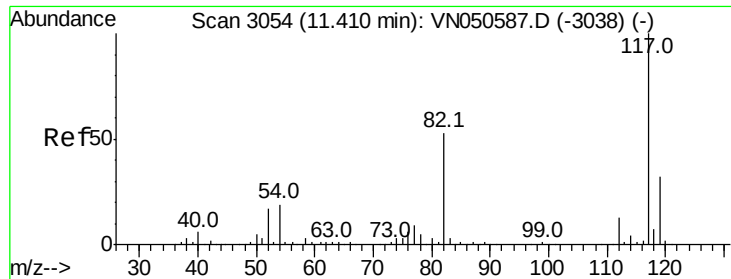
Ion Ratio Lower Upper

95 100

174 92.5 0.0 177.8

176 87.7 0.0 175.0

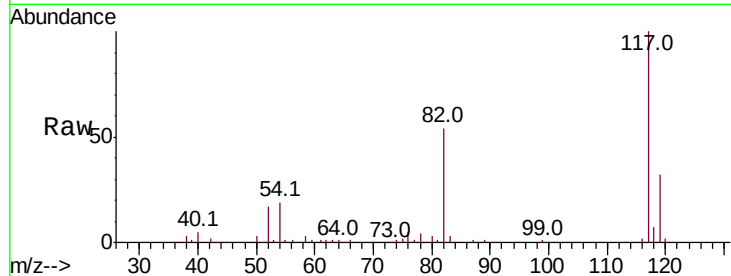




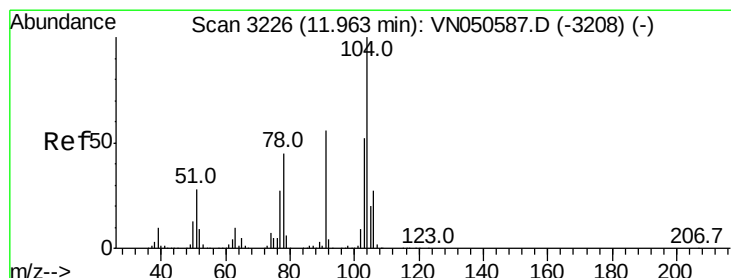
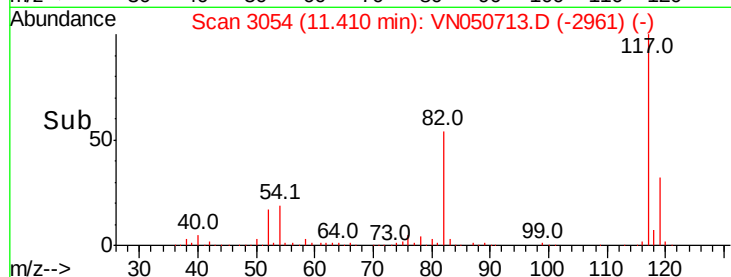
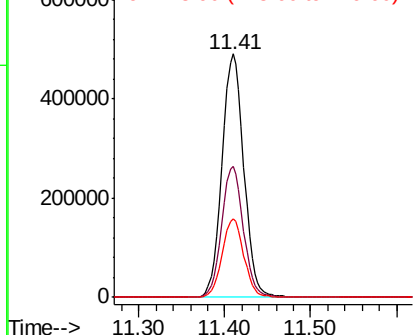
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 863205
Ion Ratio Lower Upper
117 100
82 53.7 42.4 63.6
119 32.2 25.8 38.8

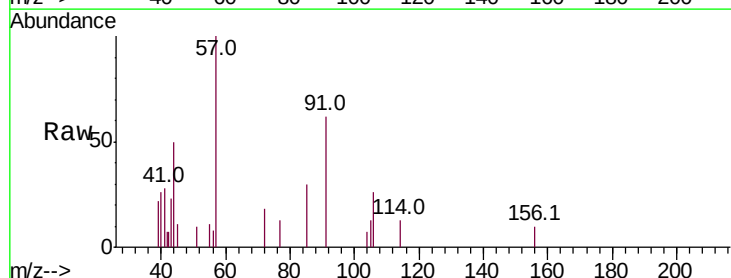


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

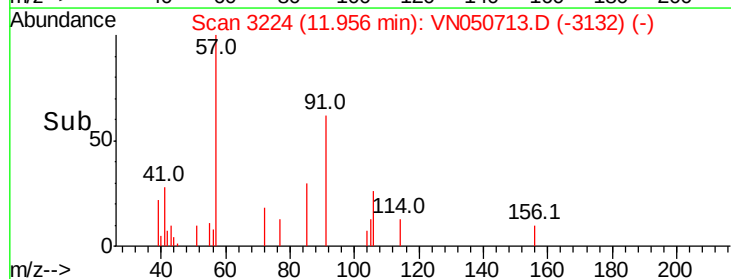
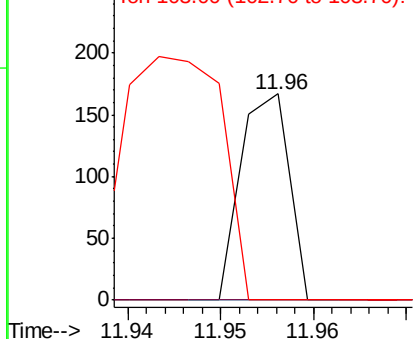


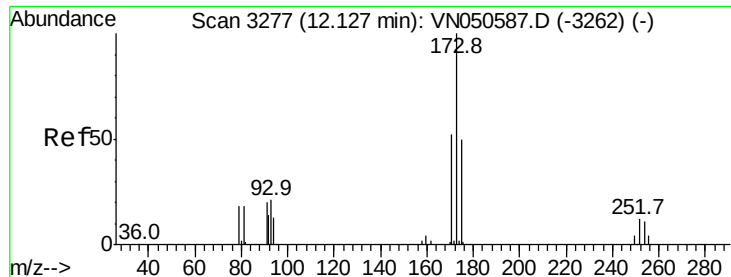
#70
Styrene
Concen: 0.943 ug/l
RT: 11.96 min Scan# 3224
Delta R.T. -0.01 min
Lab File: VN050713.D
Acq: 16 Aug 2018 20:04

Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 234.4 44.9 67.3#



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





#71

Bromoform

Concen: 0.273 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

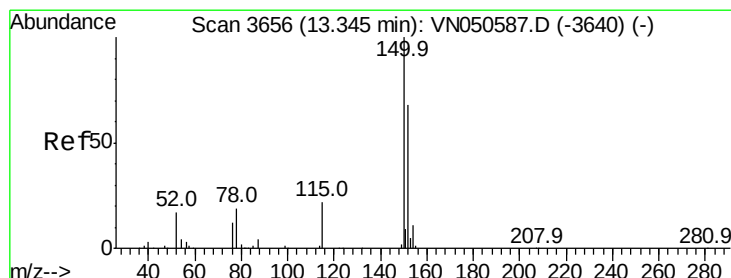
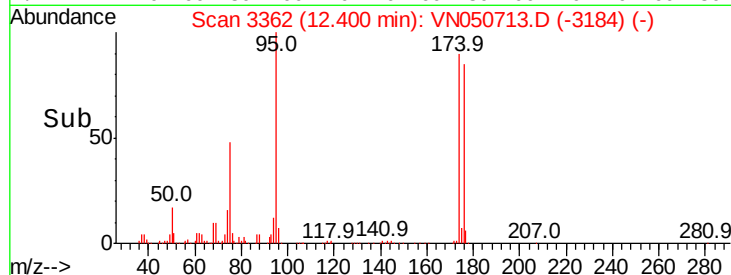
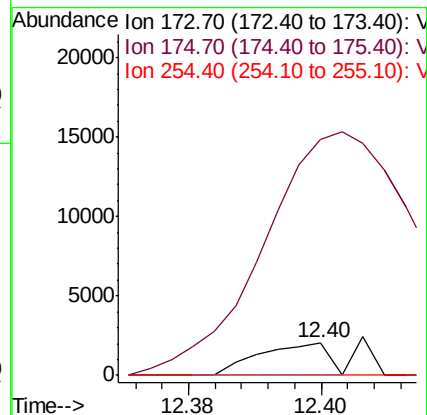
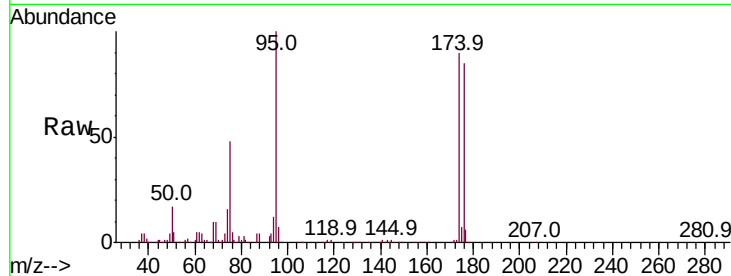
Tot Ion:173 Resp: 1459

Ion Ratio Lower Upper

173 100

175 1447.9 24.4 73.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

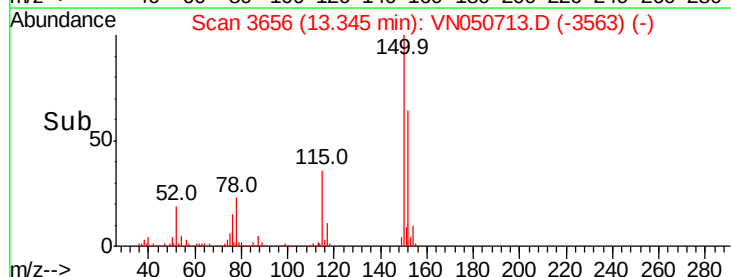
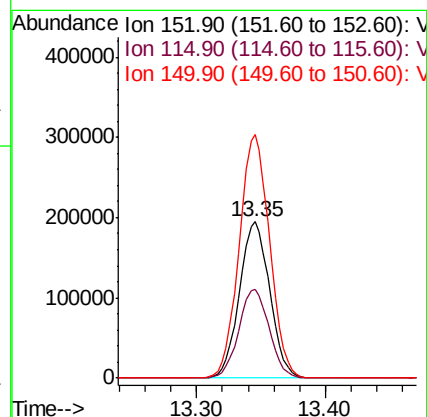
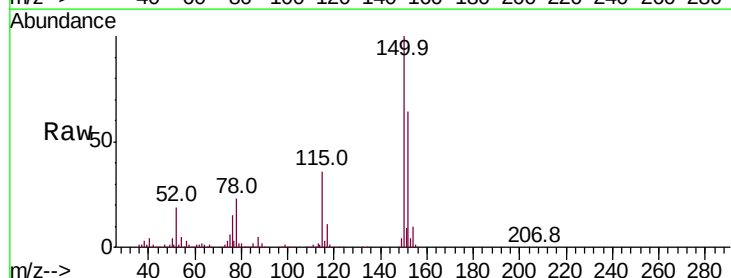
Tgt Ion:152 Resp: 316696

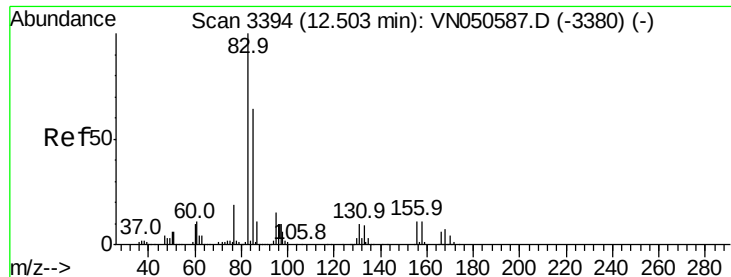
Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

150 156.9 0.0 347.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

ClientSampled :

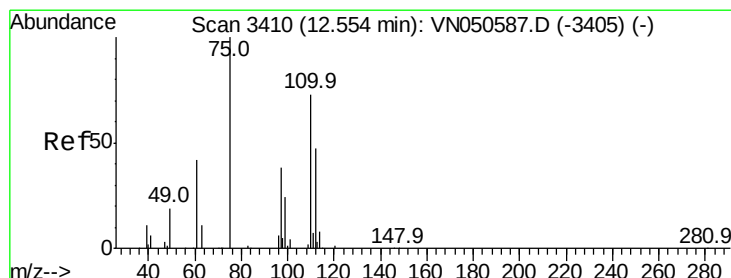
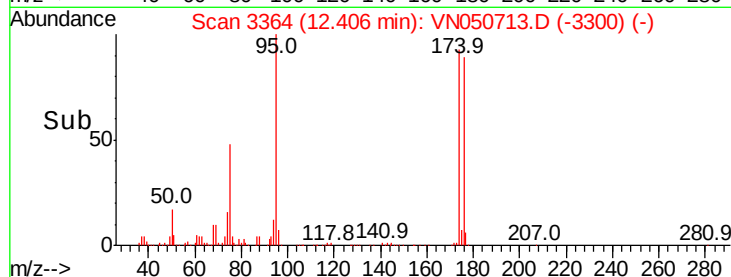
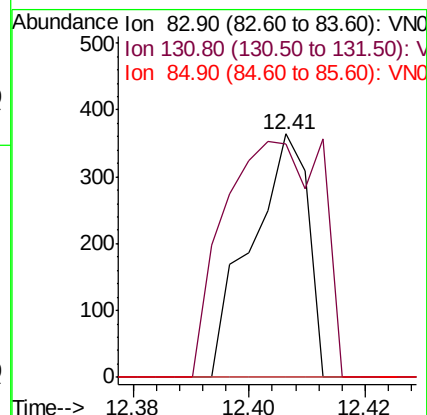
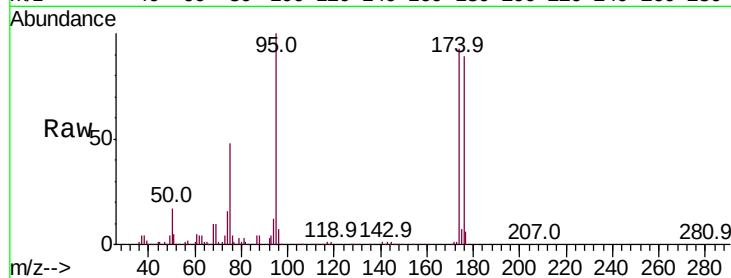
Tot Ion: 83 Resp: 247

Ion Ratio Lower Upper

83 100

131 167.2 5.3 15.9#

85 0.0 32.1 96.5#



#76

1,2,3-Trichloropropane

Concen: 35.103 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050713.D

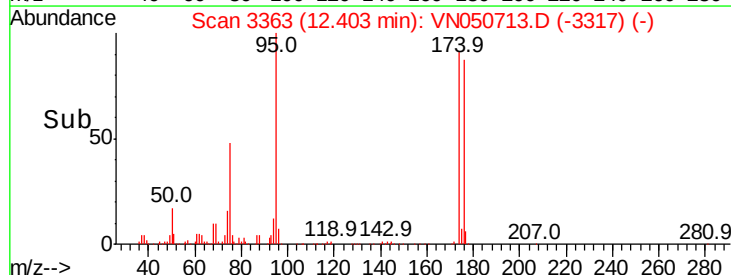
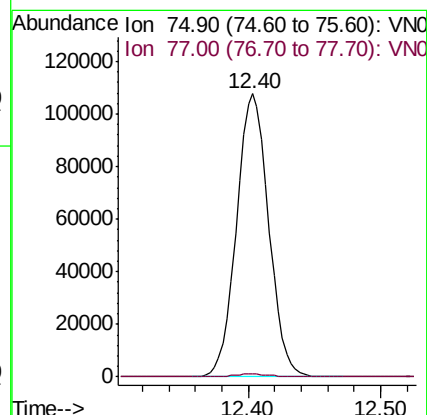
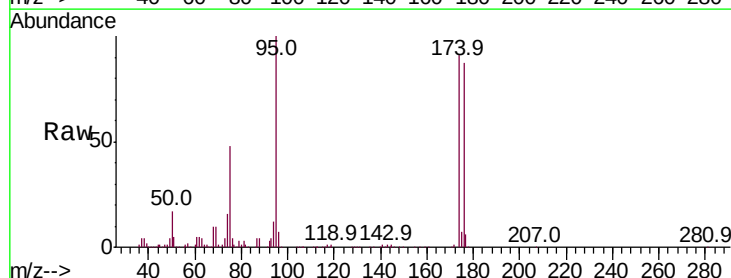
Acq: 16 Aug 2018 20:04

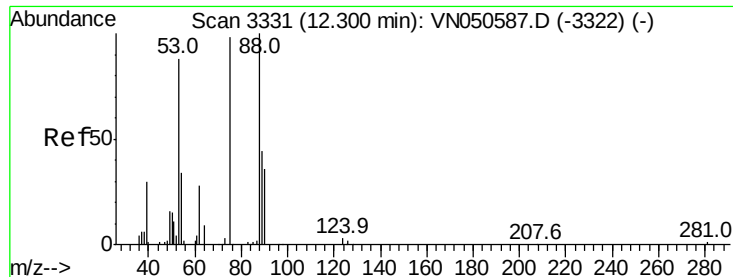
Tgt Ion: 75 Resp: 181179

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 127.188 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

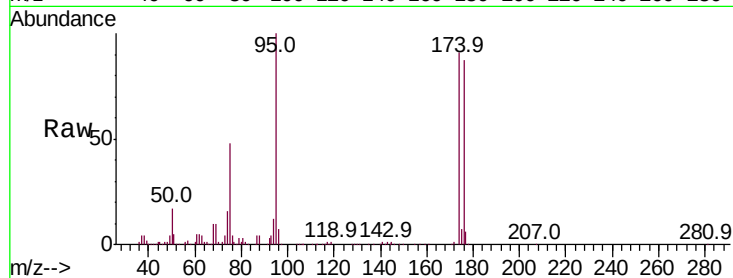
Tot Ion: 75 Resp: 181179

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

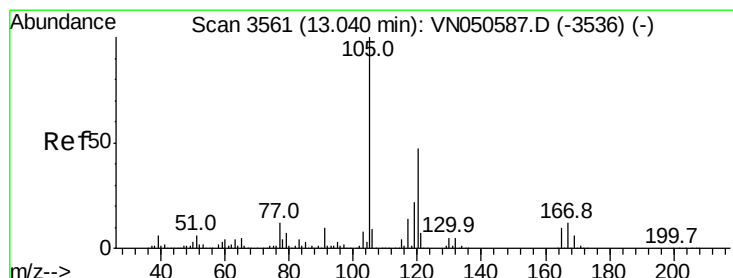
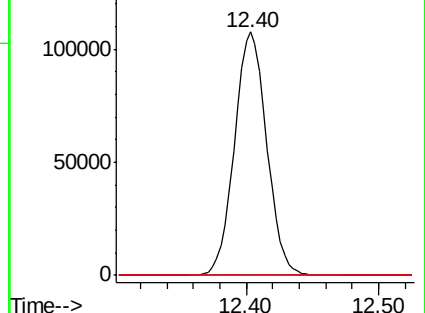
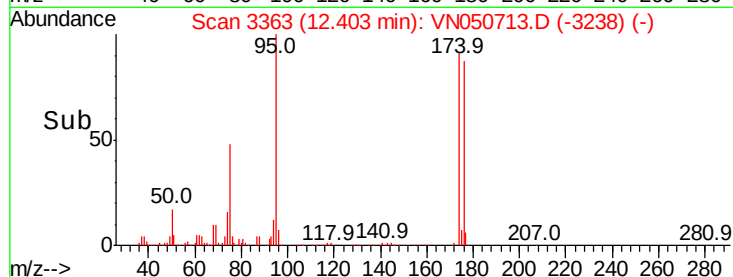
89 0.0 36.3 54.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.381 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050713.D

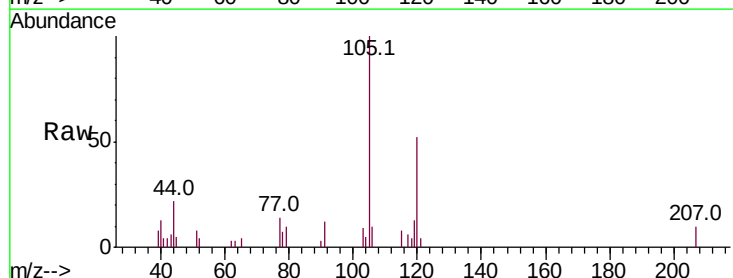
Acq: 16 Aug 2018 20:04

Tgt Ion: 105 Resp: 7580

Ion Ratio Lower Upper

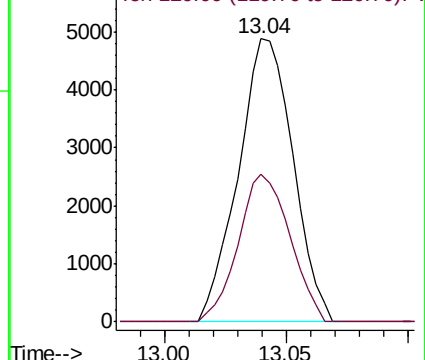
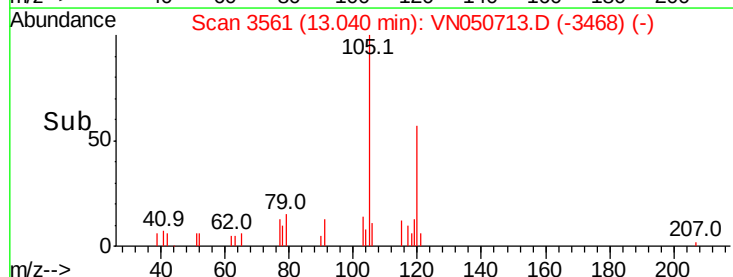
105 100

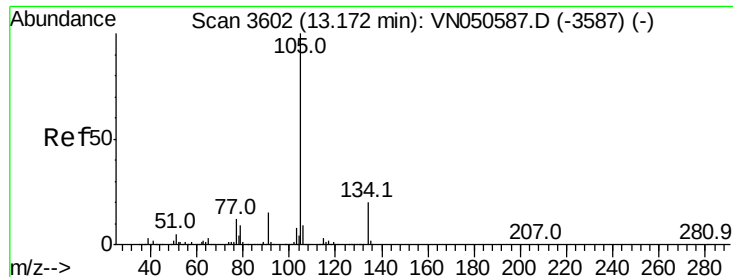
120 49.2 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.337 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.13 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

Instrument :

MSVOA_N

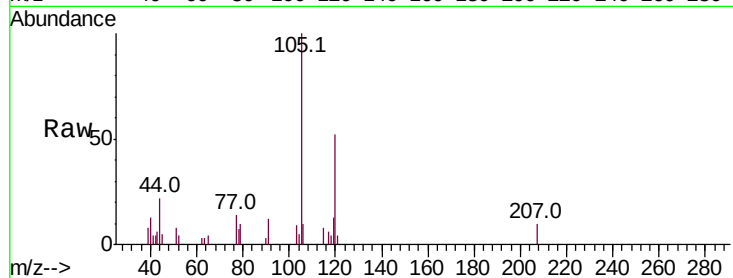
ClientSampled :

Tot Ion:105 Resp: 7580

Ion Ratio Lower Upper

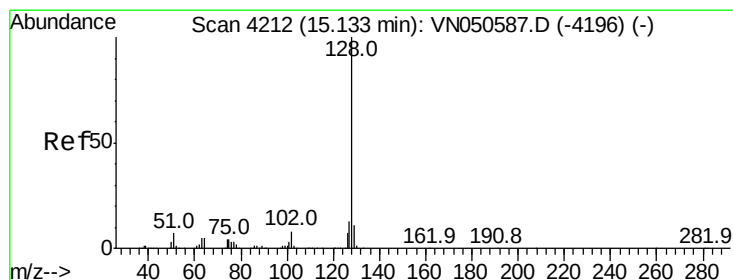
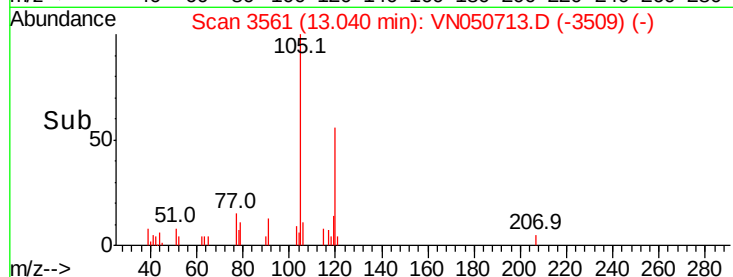
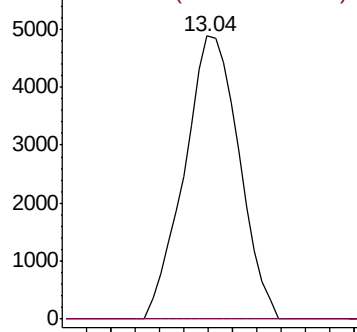
105 100

134 0.0 10.1 30.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 5.630 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050713.D

Acq: 16 Aug 2018 20:04

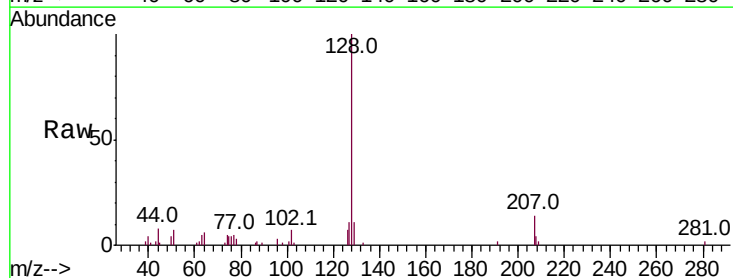
Tgt Ion:128 Resp: 23358

Ion Ratio Lower Upper

128 100

127 12.1 10.3 15.5

129 10.6 8.5 12.7



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

