

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054874.D
 Acq On : 1 Apr 2019 15:04
 Operator : JC/SP
 Sample : K2178-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-18

Quant Time: Apr 02 04:22:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	517308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	836033	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	711719	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	242802	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	342982	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
35) Dibromofluoromethane	7.59	113	265420	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	10.09	98	1001145	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	12.40	95	305543	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

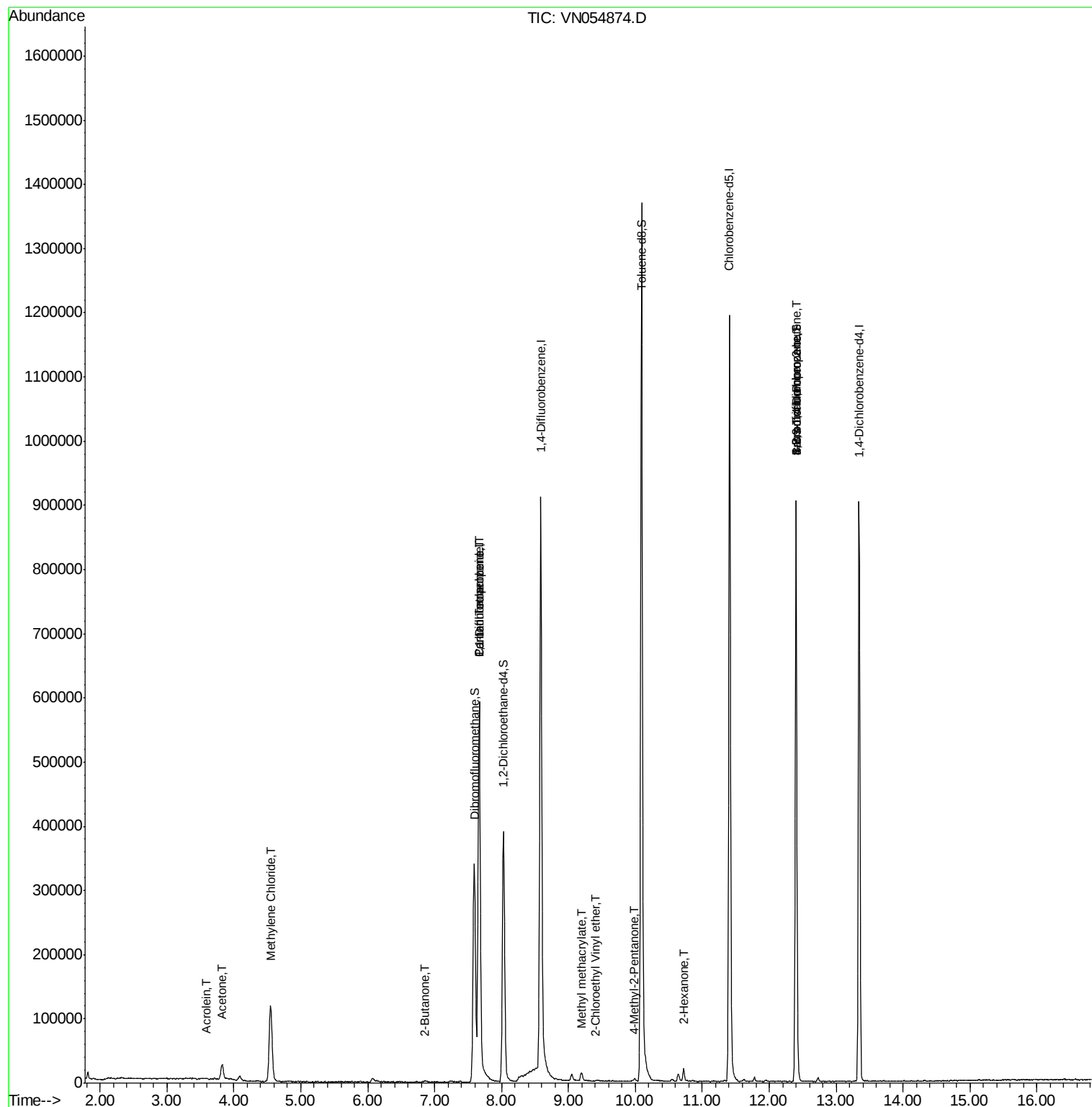
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	102	Below Cal		99
13) Acrolein	3.60	56	165	0.508	ug/l	99
16) Acetone	3.82	43	39505	23.756	ug/l #	84
18) Methyl Acetate	4.33	43	602	Below Cal	#	46
20) Methylene Chloride	4.55	84	82734	14.104	ug/l #	85
25) 2-Butanone	6.85	43	1011	0.411	ug/l #	46
31) Cyclohexane	7.67	56	11106	Below Cal	#	16
36) 1,1-Dichloropropene	7.67	75	39018	5.009	ug/l #	47
38) Carbon Tetrachloride	7.67	117	47808	6.318	ug/l #	16
48) Methyl methacrylate	9.18	41	6515	1.295	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	2963	0.568	ug/l	89
58) 2-Chloroethyl Vinyl ether	9.40	63	62	10.376	ug/l #	44
59) 2-Hexanone	10.72	43	17230	5.157	ug/l #	23
71) Bromoform	12.40	173	3018	0.988	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	252	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	157625	37.369	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	157625	145.357	ug/l #	11
83) tert-Butylbenzene	12.72	119	150	Below Cal	#	1

(#) = 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# 1833

Delta R.T. -0.00 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

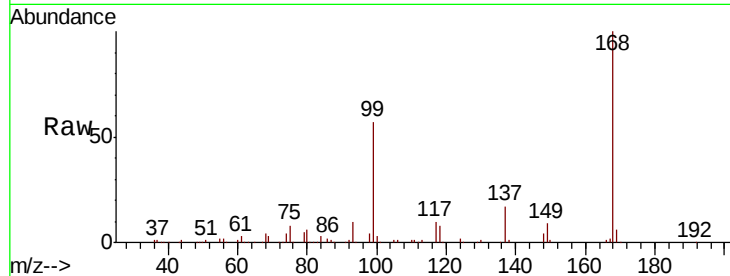
COMP-18

Tot Ion:168 Resp: 517308

Ion Ratio Lower Upper

168 100

99 56.6 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

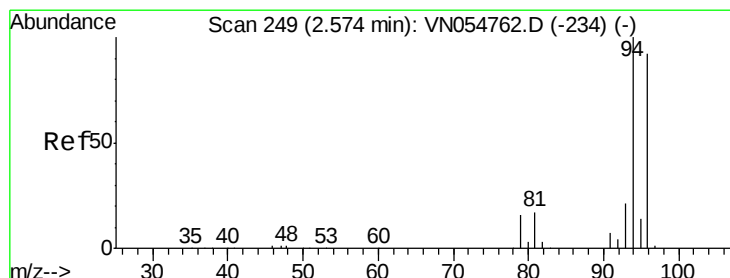
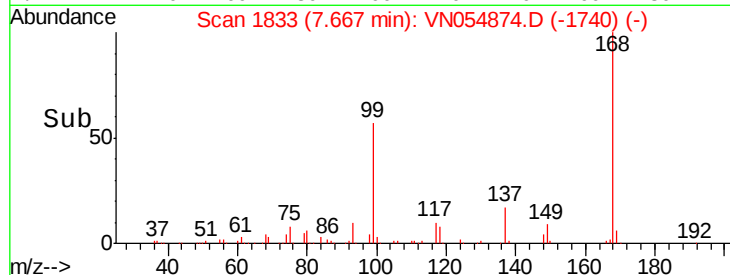
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054874.D

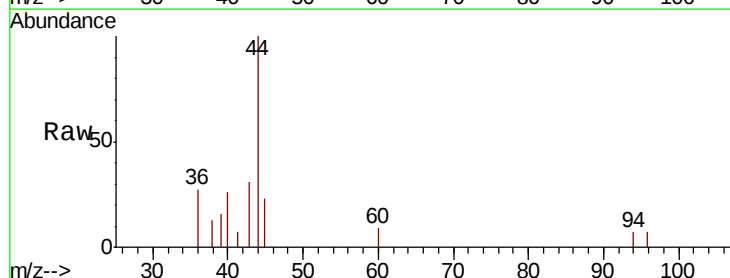
Acq: 1 Apr 2019 15:04

Tgt Ion: 94 Resp: 102

Ion Ratio Lower Upper

94 100

96 95.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

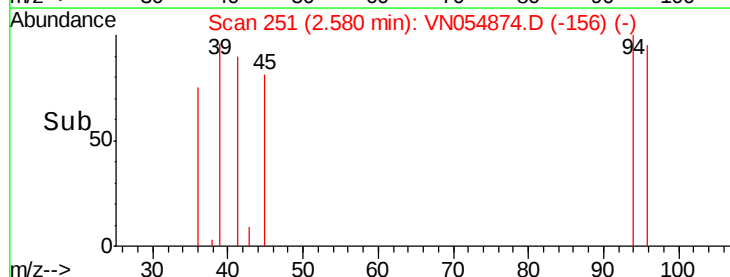
150

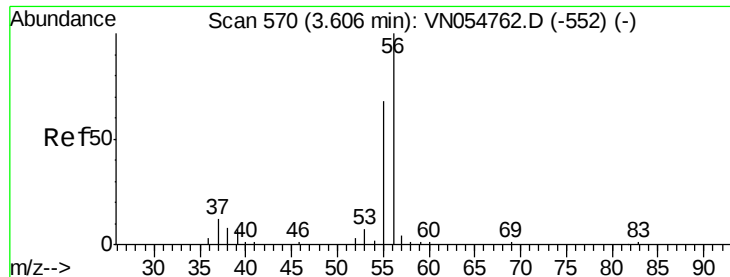
100

50

0

Time--> 2.57 2.58 2.59





#13

Acrolein

Concen: 0.508 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

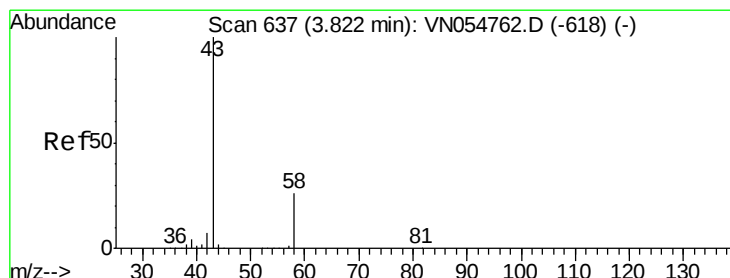
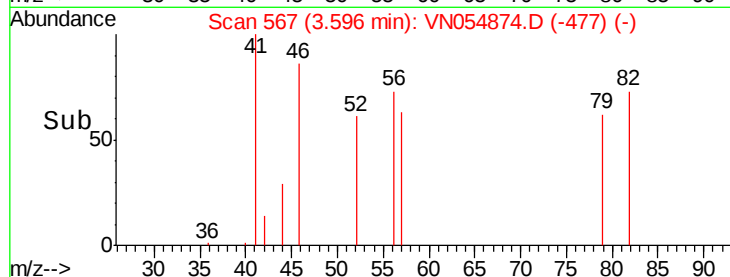
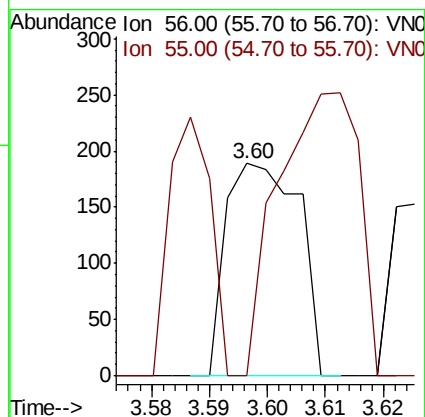
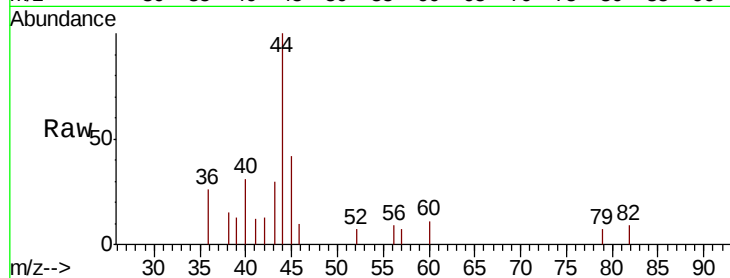
COMP-18

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 69.7 56.7 85.1



#16

Acetone

Concen: 23.756 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054874.D

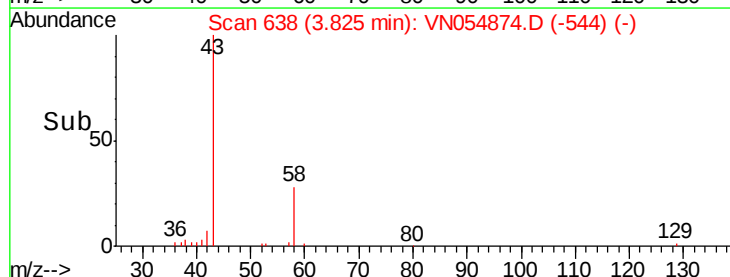
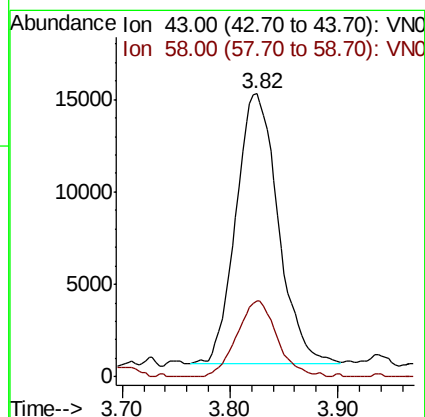
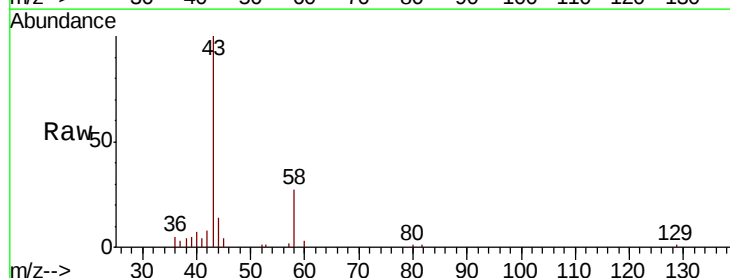
Acq: 1 Apr 2019 15:04

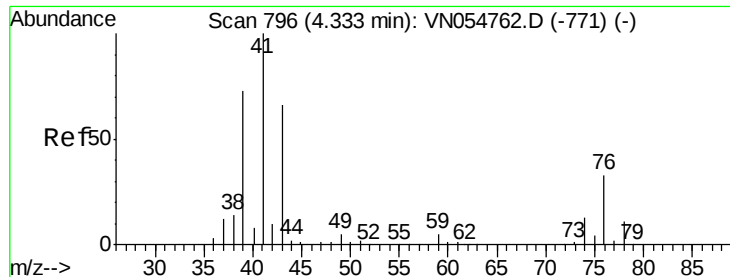
Tgt Ion: 43 Resp: 39505

Ion Ratio Lower Upper

43 100

58 28.1 29.9 44.9#

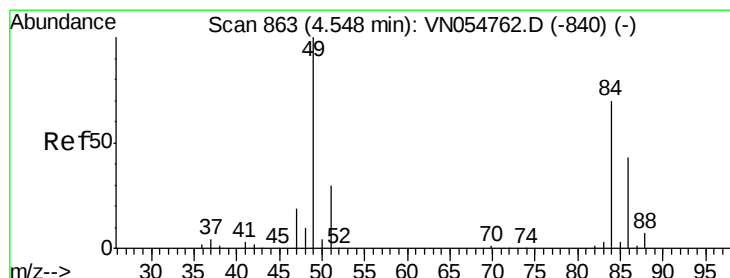
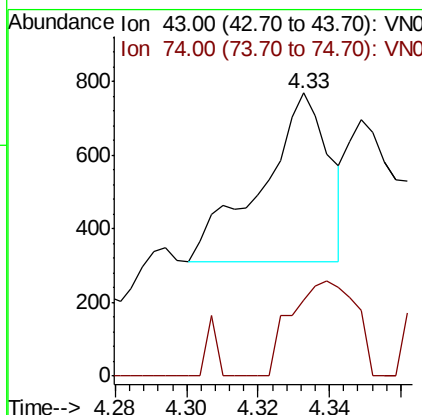
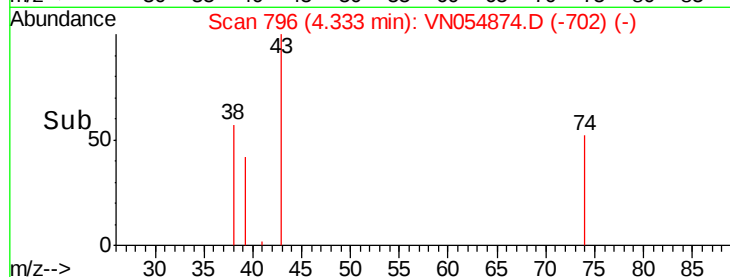
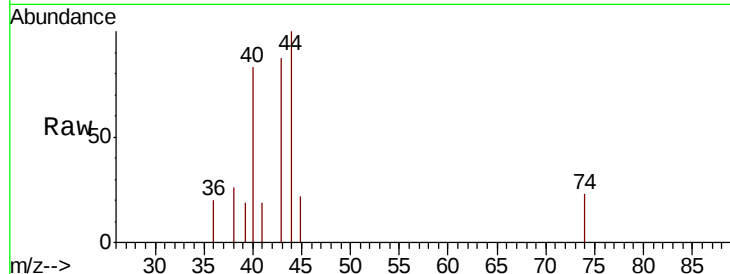




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

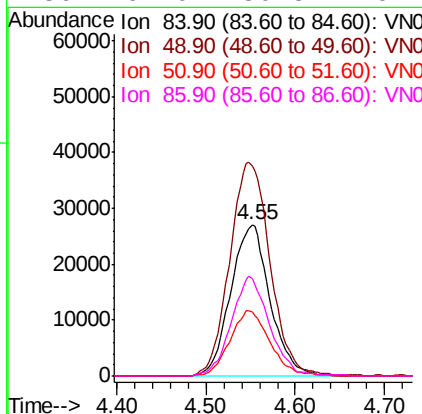
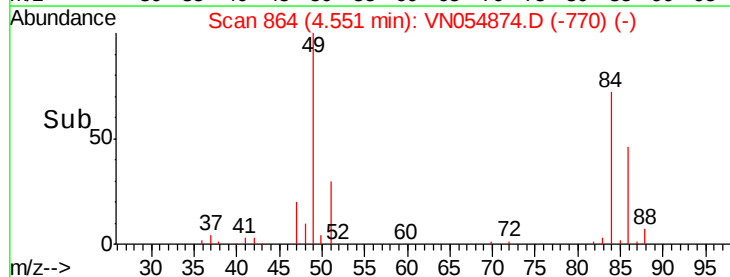
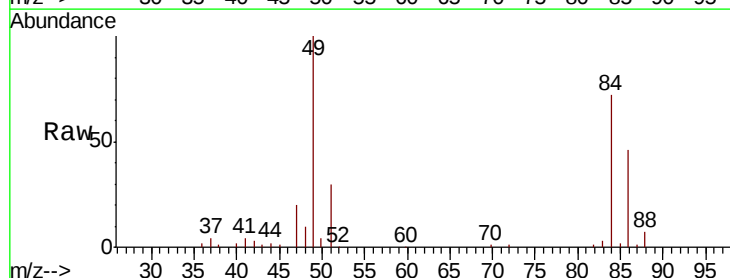
Instrument :
MSVOA_N
ClientSampled :
COMP-18

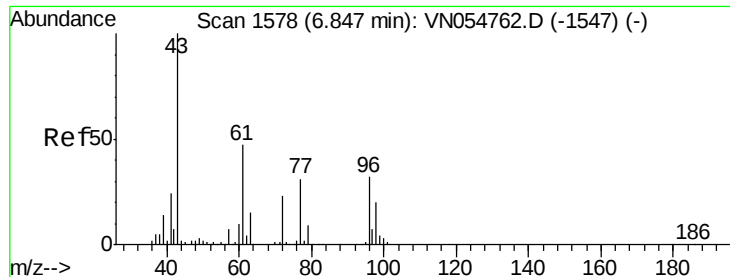
Tot Ion: 43 Resp: 602
Ion Ratio Lower Upper
43 100
74 53.7 20.8 31.2#



#20
Methylene Chloride
Concen: 14.104 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

Tgt Ion: 84 Resp: 82734
Ion Ratio Lower Upper
84 100
49 138.5 89.7 134.5#
51 41.9 28.2 42.4
86 64.0 50.8 76.2





#25

2-Butanone

Concen: 0.411 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

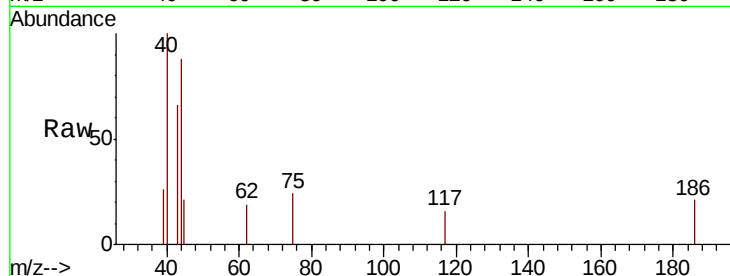
COMP-18

Tot Ion: 43 Resp: 1011

Ion Ratio Lower Upper

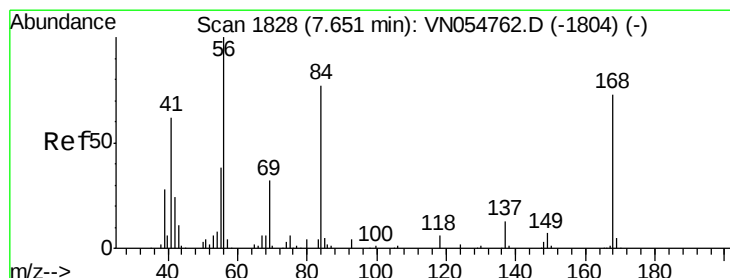
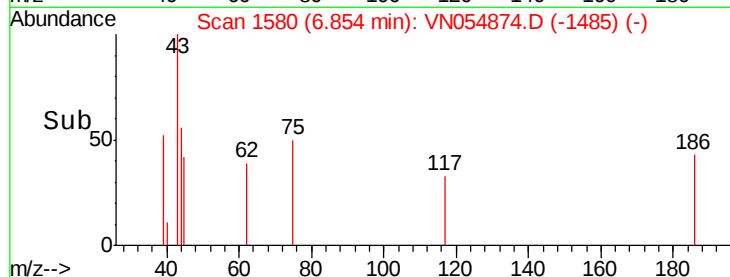
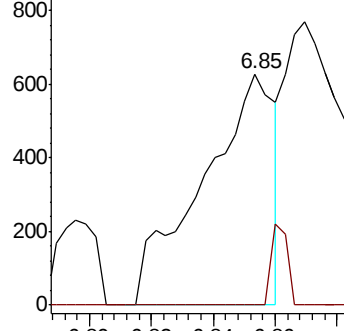
43 100

72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

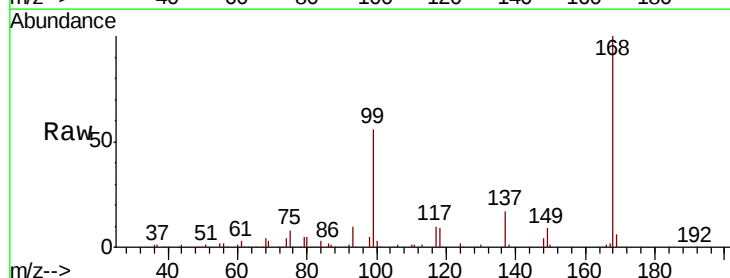
Tgt Ion: 56 Resp: 11106

Ion Ratio Lower Upper

56 100

69 148.5 27.8 41.6#

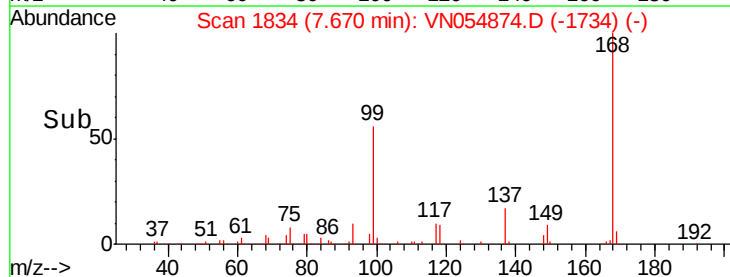
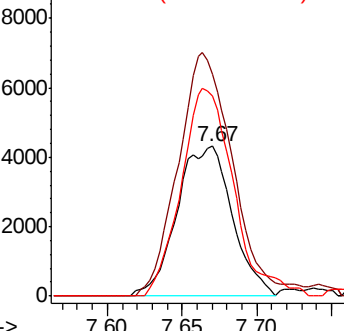
84 133.2 74.6 111.8#

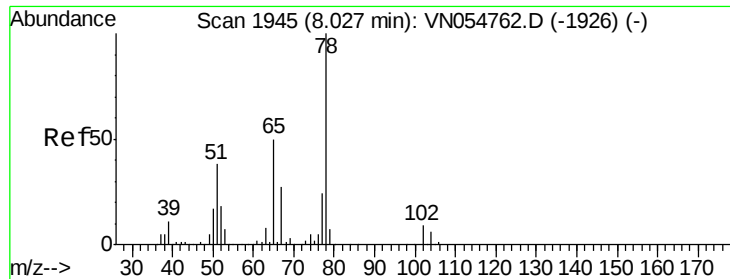


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

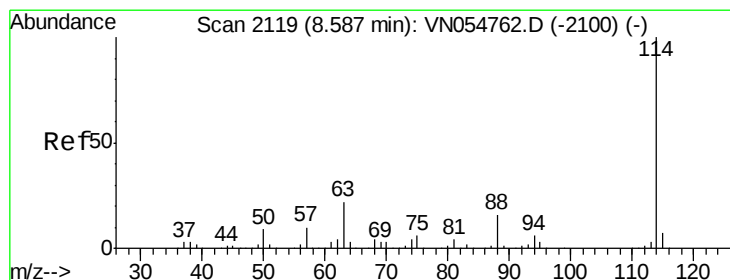
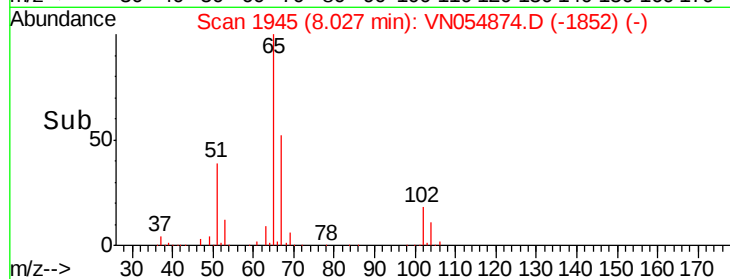
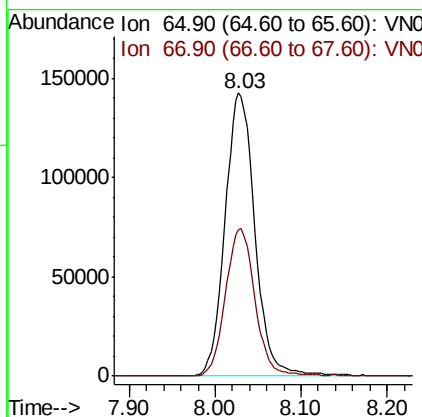
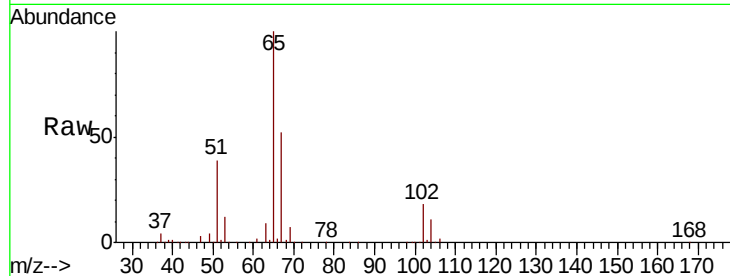




#33
 1,2-Dichloroethane-d4
 Concen: 49.184 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054874.D
 Acq: 1 Apr 2019 15:04

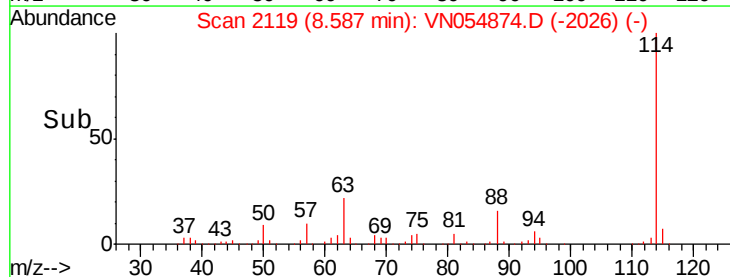
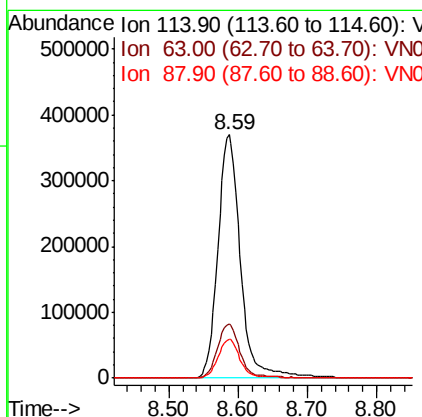
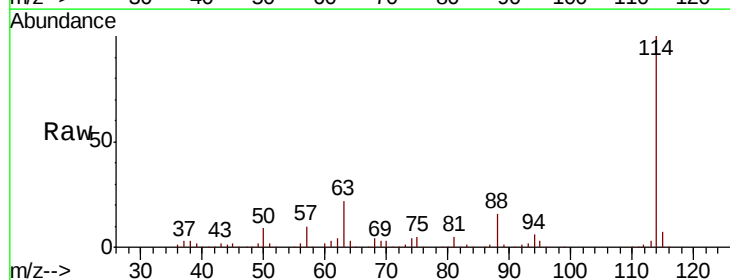
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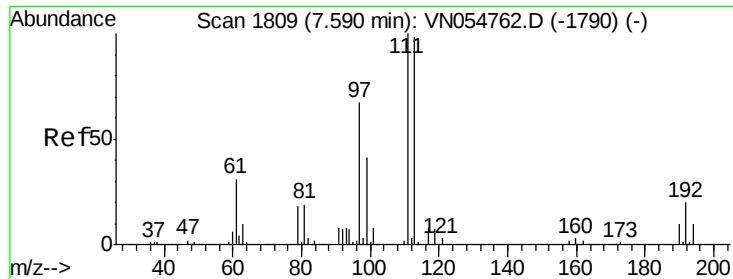
Tot Ion: 65 Resp: 342982
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054874.D
 Acq: 1 Apr 2019 15:04

Tgt Ion: 114 Resp: 836033
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 16.0 0.0 30.2

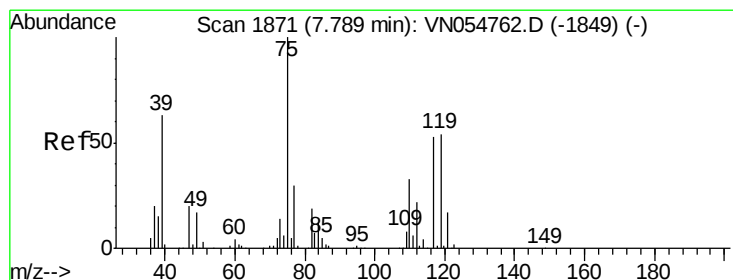
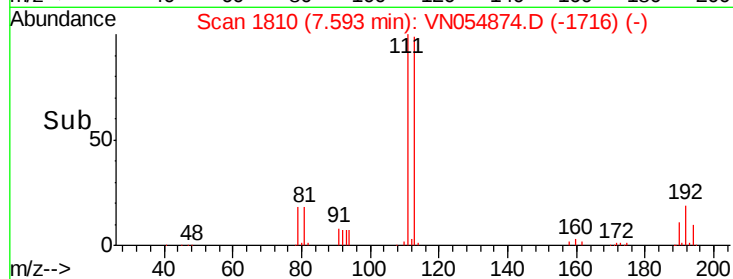
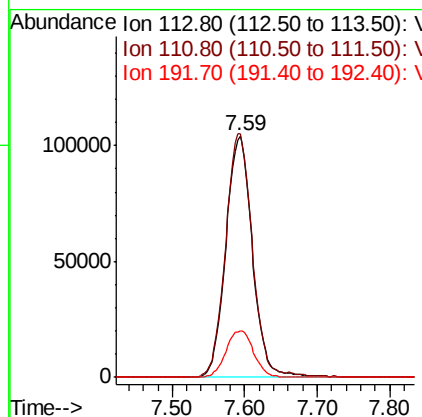
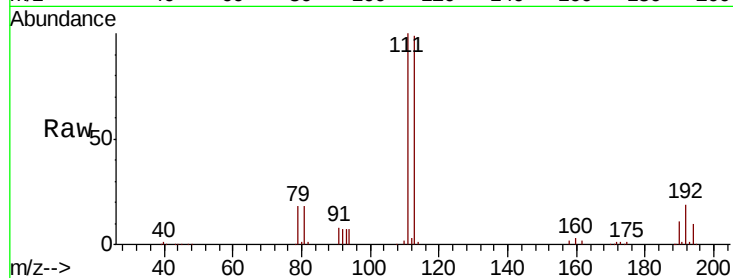




#35
 Dibromofluoromethane
 Concen: 47.620 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054874.D
 Acq: 1 Apr 2019 15:04

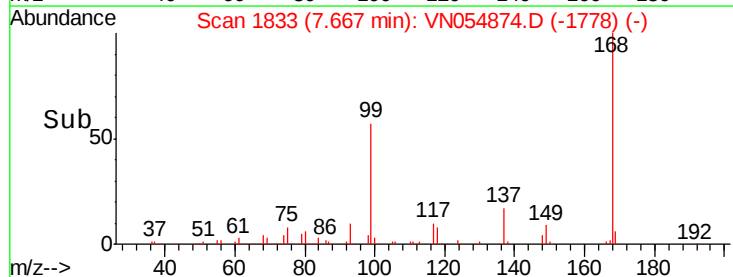
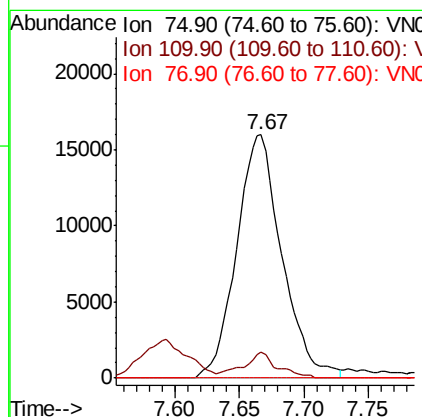
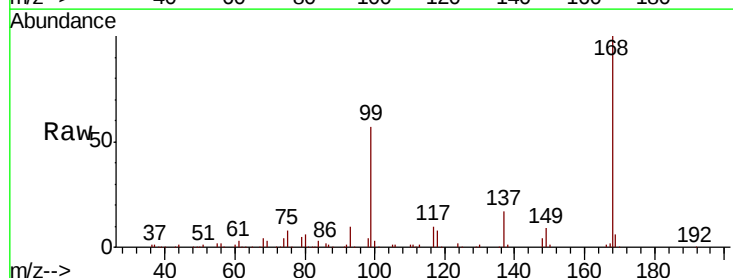
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 COMP-18

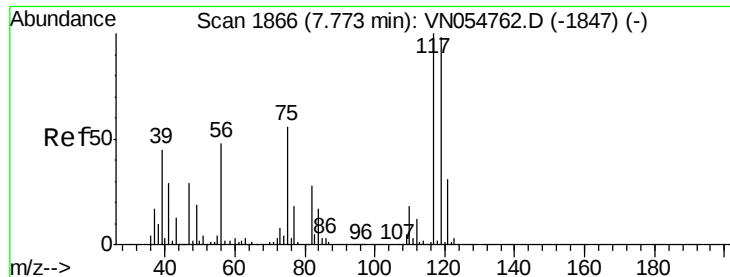
Tot Ion:113 Resp: 265420
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.2 123.4
 192 20.0 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 5.009 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054874.D
 Acq: 1 Apr 2019 15:04

Tgt Ion: 75 Resp: 39018
 Ion Ratio Lower Upper
 75 100
 110 8.2 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.318 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

COMP-18

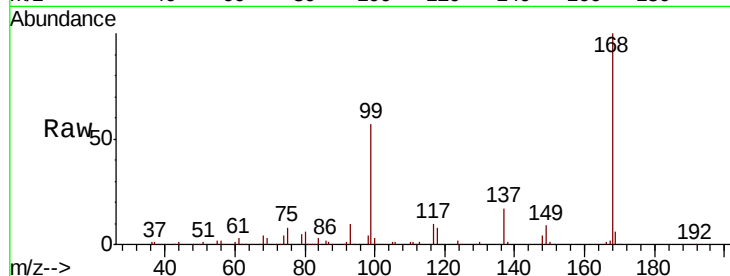
Tot Ion:117 Resp: 47808

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

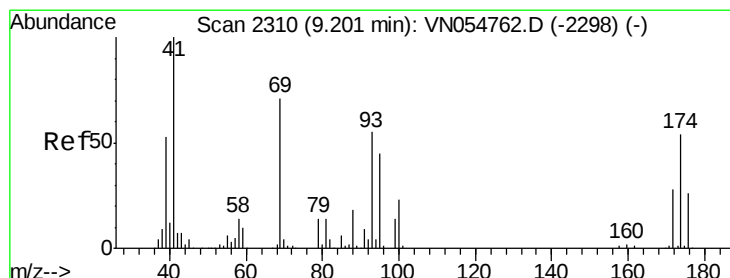
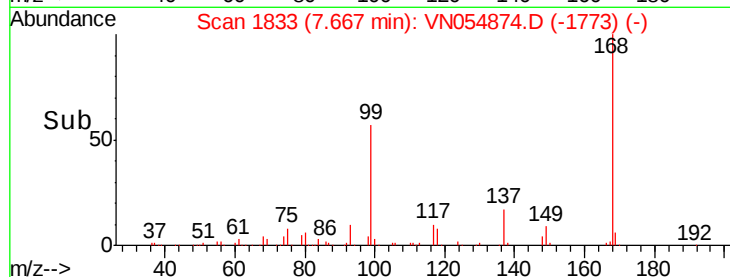
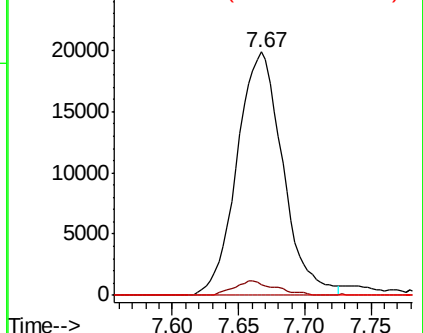
121 0.0 24.6 36.8#



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



#48

Methyl methacrylate

Concen: 1.295 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

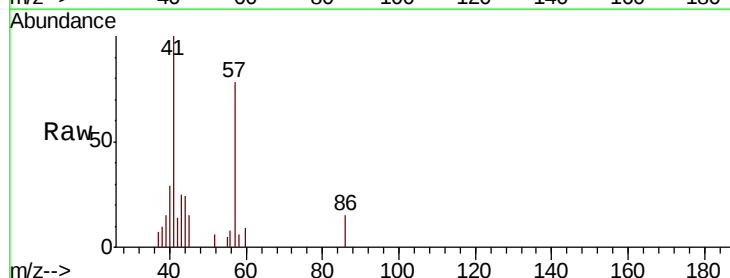
Tgt Ion: 41 Resp: 6515

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

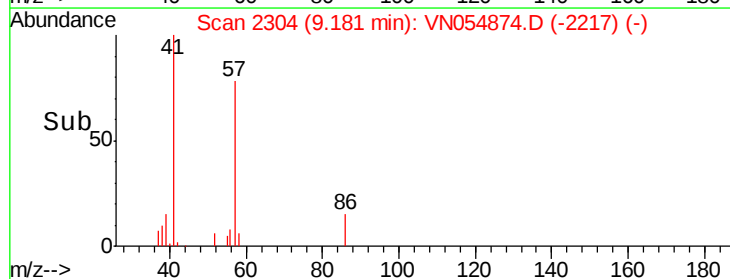
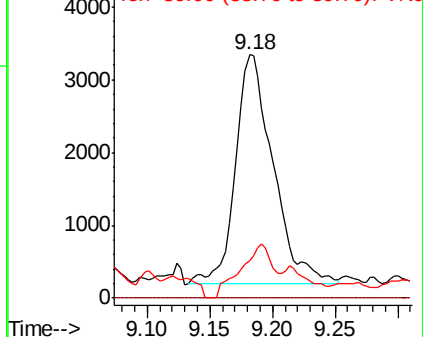
39 20.9 47.5 71.3#

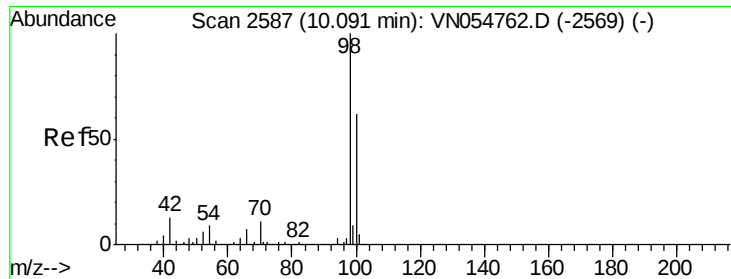


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

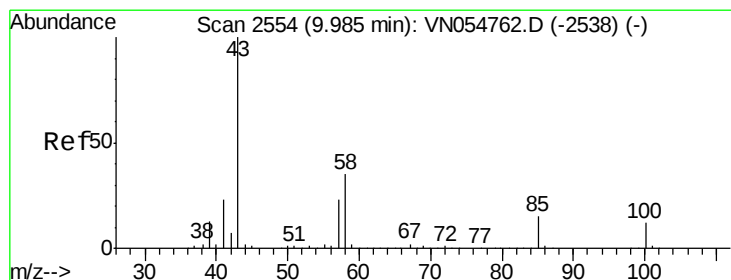
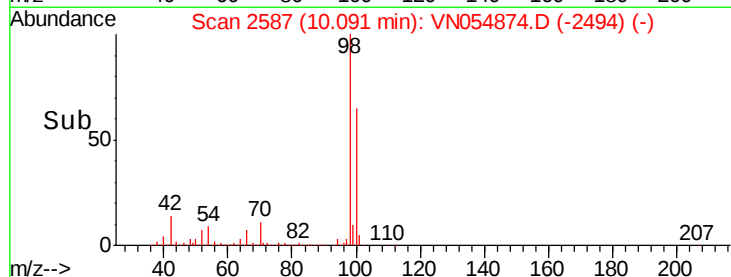
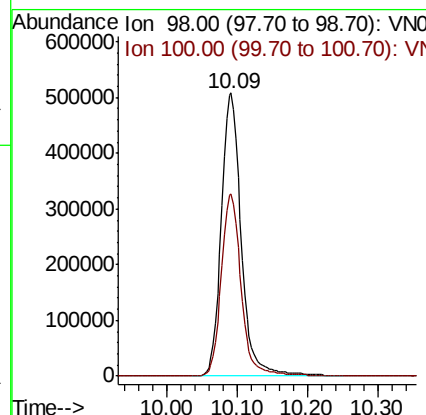
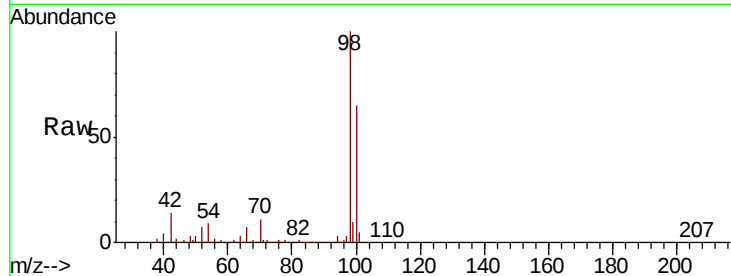




#50
Toluene-d8
Concen: 48.313 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

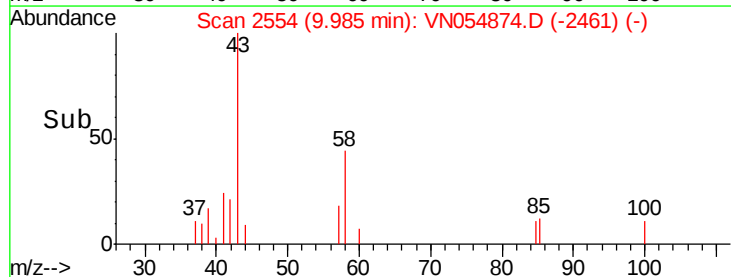
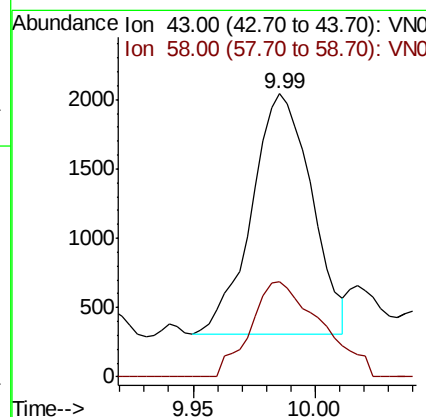
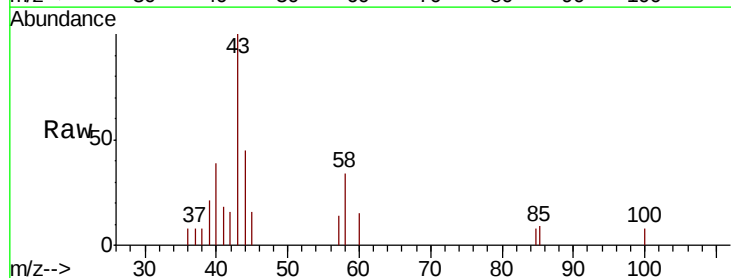
Instrument :
MSVOA_N
ClientSampleId :
COMP-18

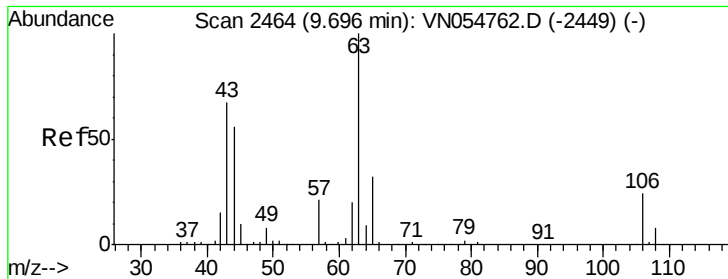
Tot Ion: 98 Resp: 1001145
Ion Ratio Lower Upper
98 100
100 64.3 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.568 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

Tgt Ion: 43 Resp: 2963
Ion Ratio Lower Upper
43 100
58 46.5 31.8 47.6





#58

2-Chloroethyl Vinyl ether

Concen: 10.376 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.29 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

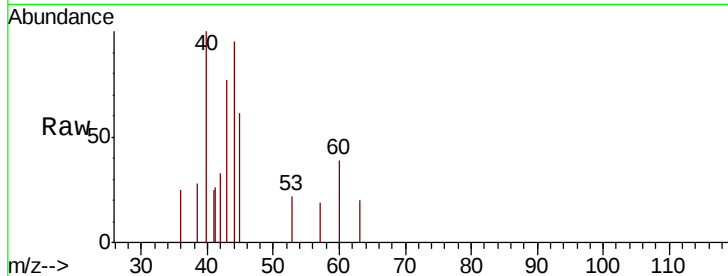
COMP-18

Tot Ion: 63 Resp: 62

Ion Ratio Lower Upper

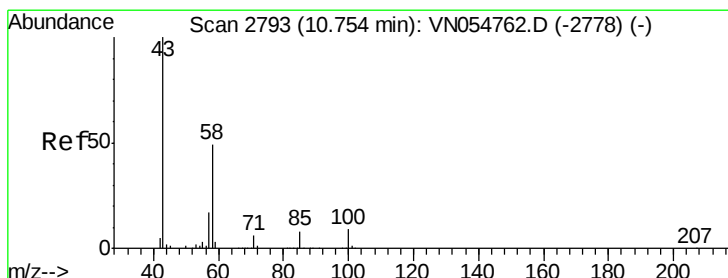
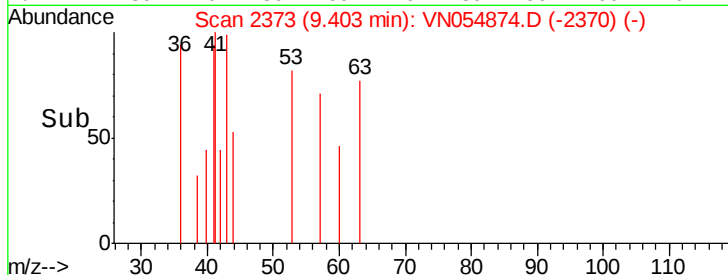
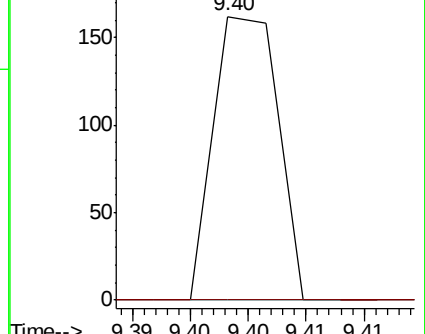
63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 5.157 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.04 min

Lab File: VN054874.D

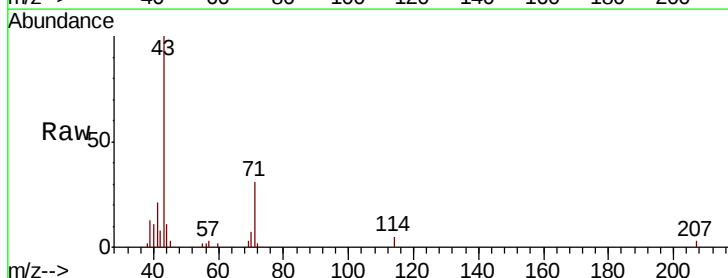
Acq: 1 Apr 2019 15:04

Tgt Ion: 43 Resp: 17230

Ion Ratio Lower Upper

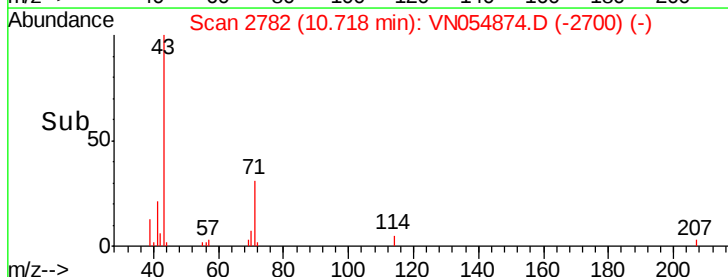
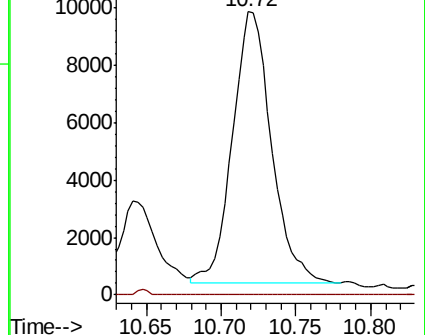
43 100

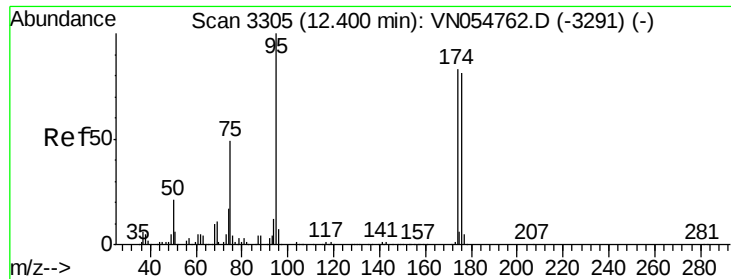
58 0.0 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.335 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

COMP-18

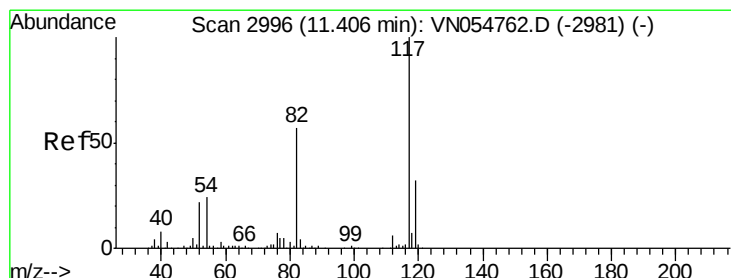
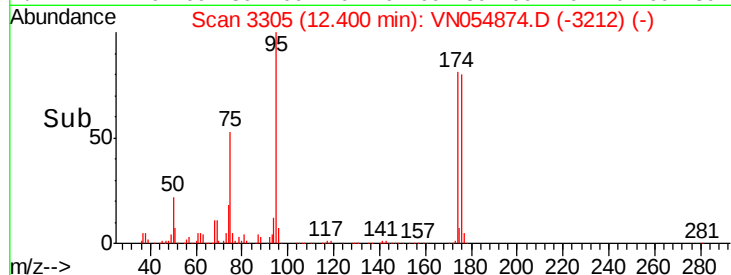
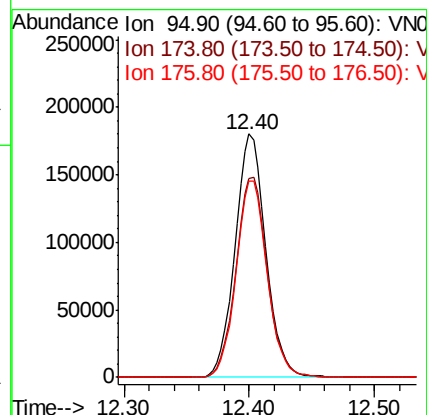
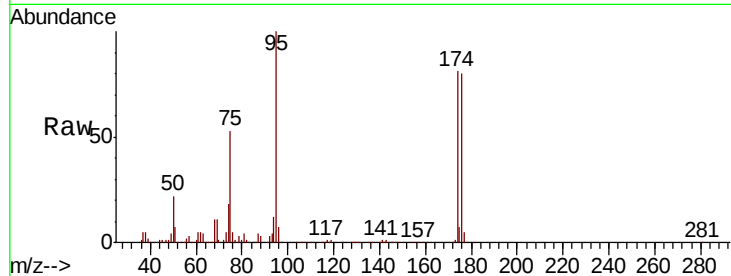
Tot Ion: 95 Resp: 305543

Ion Ratio Lower Upper

95 100

174 84.1 0.0 191.0

176 81.9 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

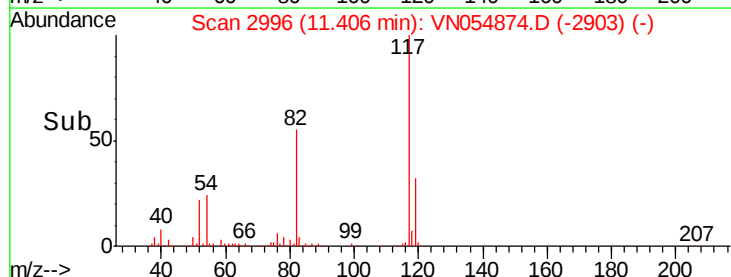
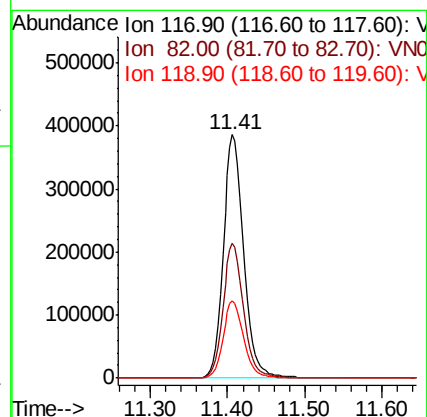
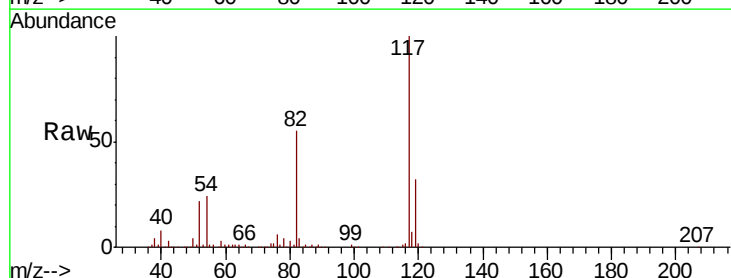
Tgt Ion: 117 Resp: 711719

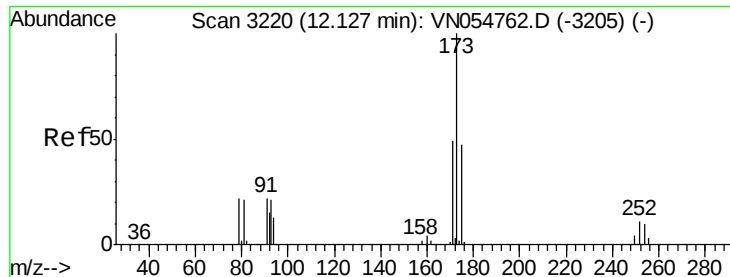
Ion Ratio Lower Upper

117 100

82 55.5 40.0 60.0

119 31.9 25.8 38.6

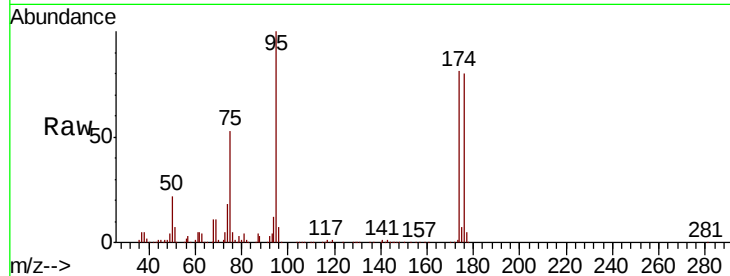




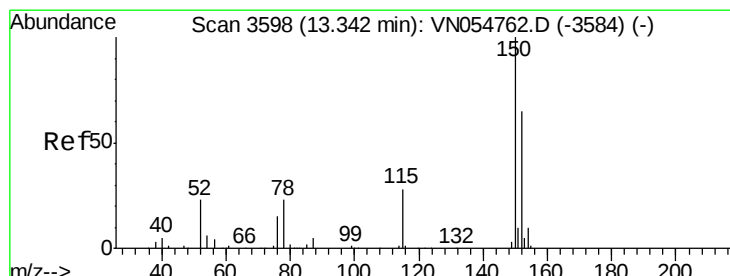
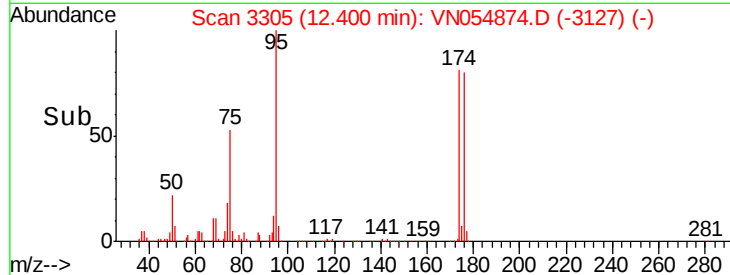
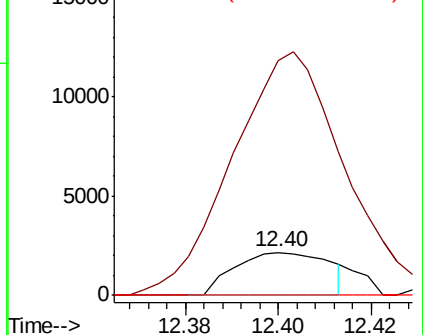
#71
Bromoform
Concen: 0.988 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
COMP-18

Tot Ion:173 Resp: 3018
Ion Ratio Lower Upper
173 100
175 583.2 24.4 73.2#
254 0.0 0.1 0.1#

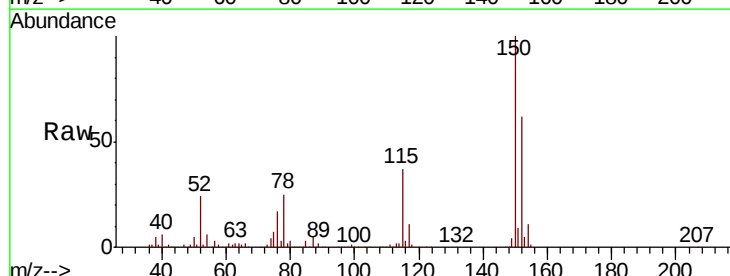


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

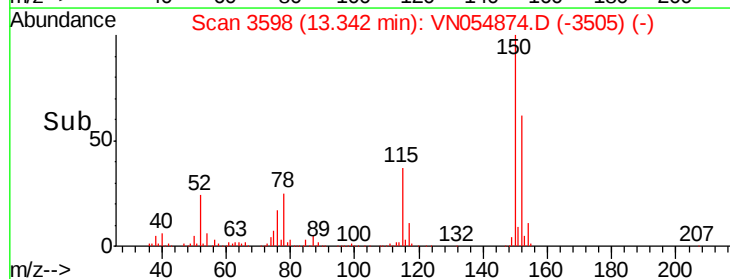
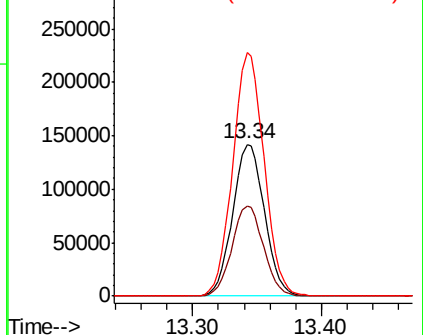


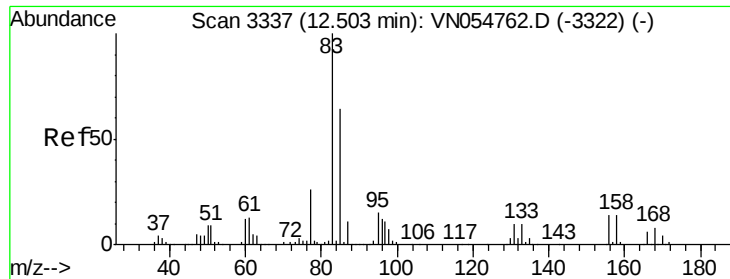
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054874.D
Acq: 1 Apr 2019 15:04

Tgt Ion:152 Resp: 242802
Ion Ratio Lower Upper
152 100
115 58.9 27.2 81.6
150 158.4 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

COMP-18

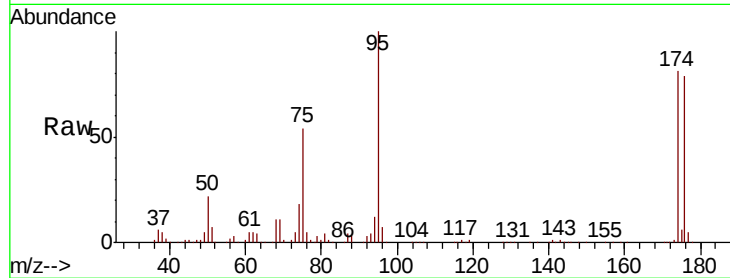
Tot Ion: 83 Resp: 252

Ion Ratio Lower Upper

83 100

131 213.9 5.8 17.4#

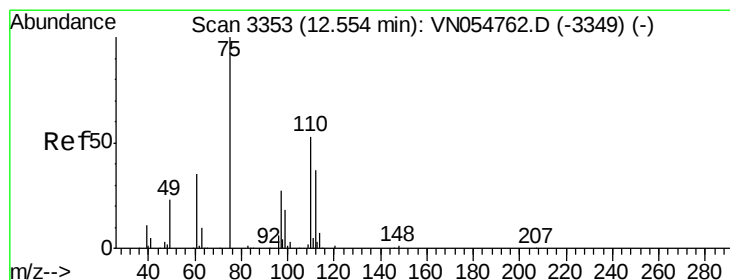
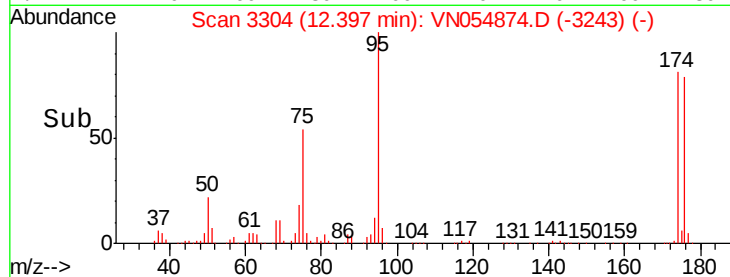
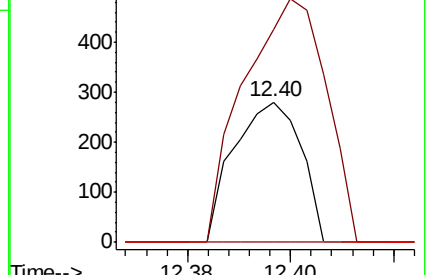
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.369 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054874.D

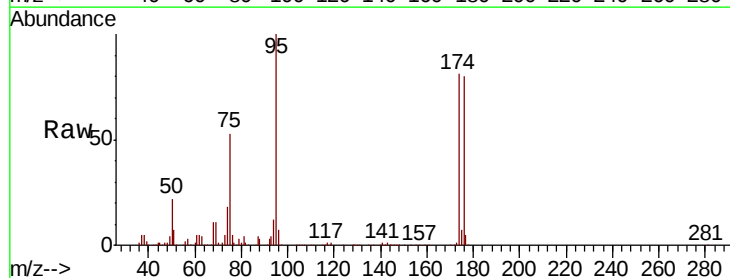
Acq: 1 Apr 2019 15:04

Tgt Ion: 75 Resp: 157625

Ion Ratio Lower Upper

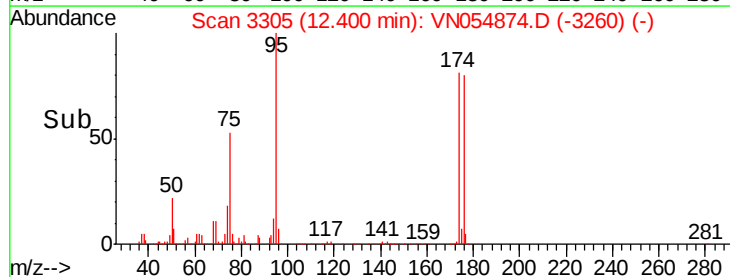
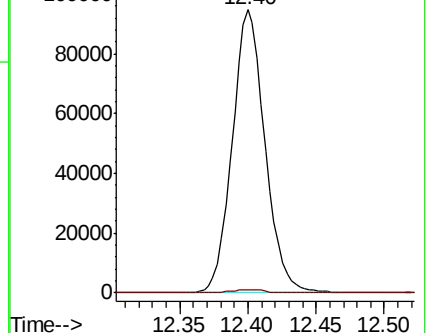
75 100

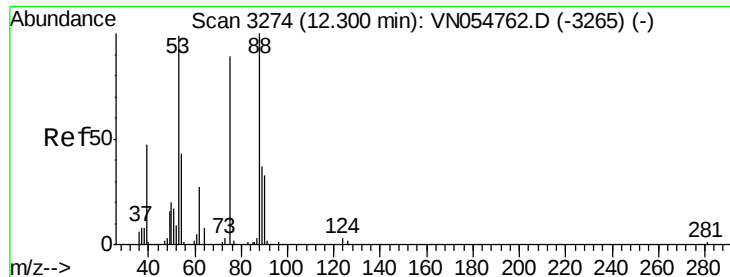
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 145.357 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

COMP-18

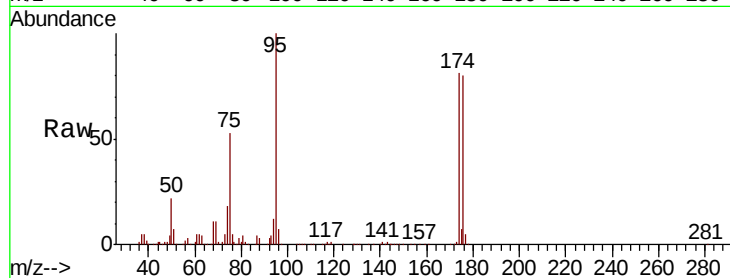
Tot Ion: 75 Resp: 157625

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

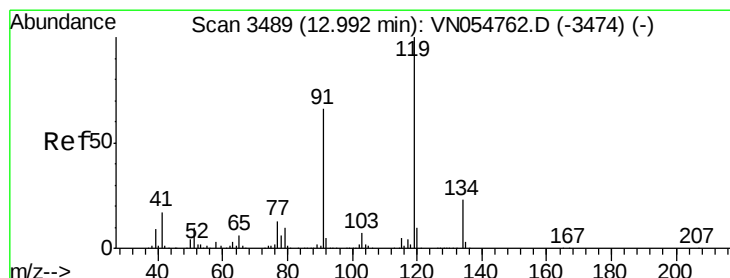
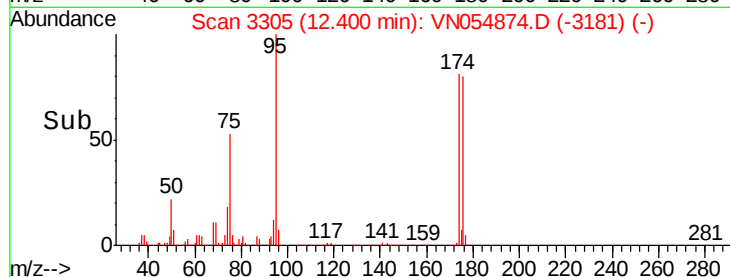
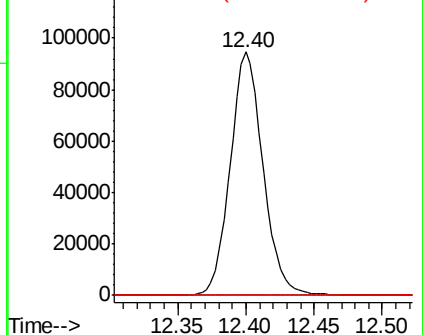
89 0.0 39.2 58.8#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.72 min Scan# 3406

Delta R.T. -0.27 min

Lab File: VN054874.D

Acq: 1 Apr 2019 15:04

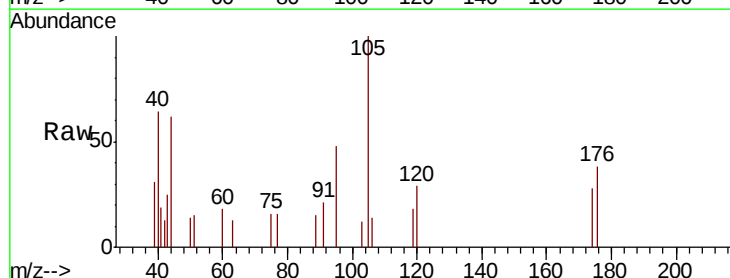
Tgt Ion: 119 Resp: 150

Ion Ratio Lower Upper

119 100

91 236.0 30.9 92.8#

134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

