

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054875.D
 Acq On : 1 Apr 2019 15:30
 Operator : JC/SP
 Sample : K2182-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S8A(10)

Quant Time: Apr 02 04:22:49 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	536523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	862902	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	751400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	249102	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	349536	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	7.59	113	280071	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	10.09	98	1061207	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.40	95	313500	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

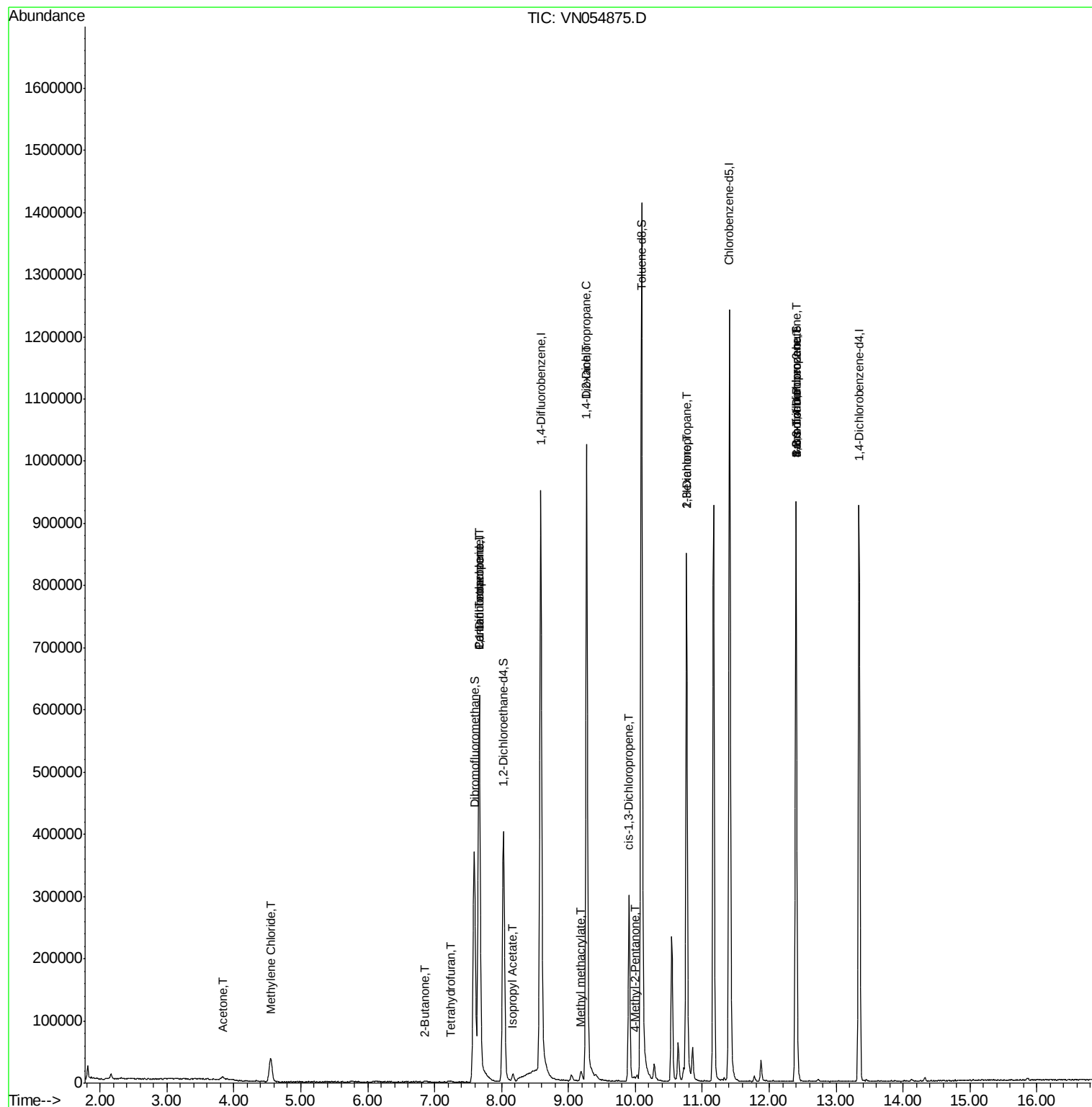
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	32	Below Cal	#	2
16) Acetone	3.82	43	4720	2.737	ug/l	91
18) Methyl Acetate	4.34	43	2824	Below Cal	#	51
20) Methylene Chloride	4.55	84	26122	4.294	ug/l	80
25) 2-Butanone	6.86	43	2597	1.019	ug/l	46
29) Tetrahydrofuran	7.23	42	899	0.508	ug/l	48
31) Cyclohexane	7.67	56	10961	Below Cal	#	17
36) 1,1-Dichloropropene	7.66	75	41449	5.155	ug/l	47
38) Carbon Tetrachloride	7.66	117	49411	6.327	ug/l	16
43) Isopropyl Acetate	8.17	43	13989	1.460	ug/l	91
45) 1,2-Dichloropropane	9.26	63	1471	0.224	ug/l	43
48) Methyl methacrylate	9.18	41	6899	1.328	ug/l	11
49) 1,4-Dioxane	9.26	88	31	0.602	ug/l	1
51) 4-Methyl-2-Pentanone	9.99	43	4659	0.865	ug/l	80
54) cis-1,3-Dichloropropene	9.91	75	48443	5.621	ug/l	71
57) 1,3-Dichloropropane	10.77	76	8135	0.930	ug/l	43
59) 2-Hexanone	10.76	43	141208	40.951	ug/l	48
71) Bromoform	12.40	173	3191	0.989	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	254	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	162509	37.553	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162509	146.071	ug/l	11

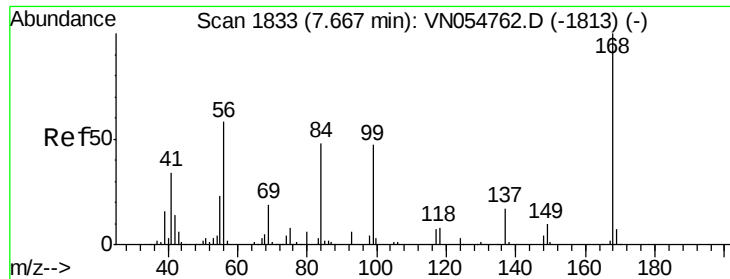
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 30 00:48:18 2019
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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: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

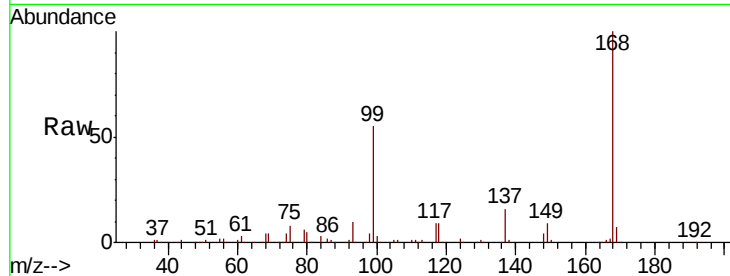
S8A(10)

Tot Ion:168 Resp: 536523

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054875.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054875.D (-1740) (-)

7.67

250000

200000

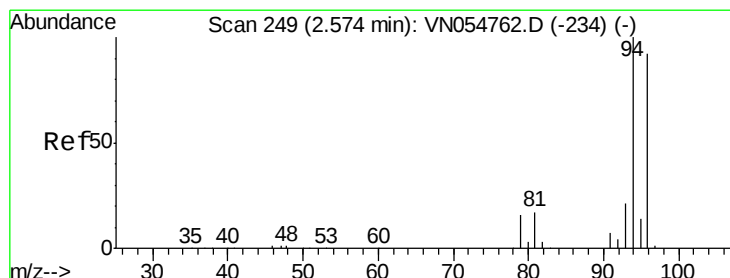
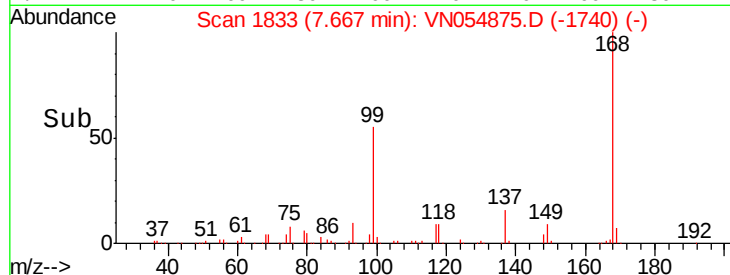
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. -0.02 min

Lab File: VN054875.D

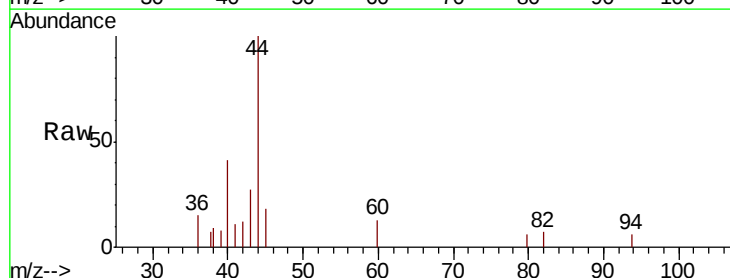
Acq: 1 Apr 2019 15:30

Tgt Ion: 94 Resp: 32

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054875.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054875.D (-156) (-)

2.55

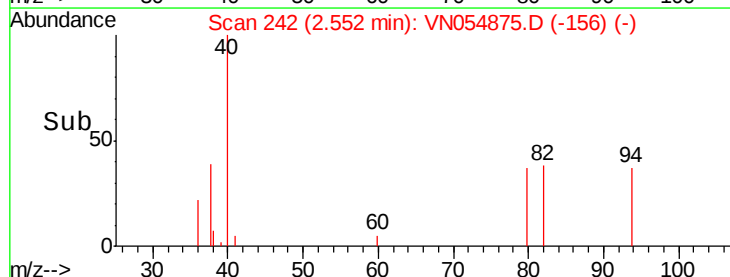
150

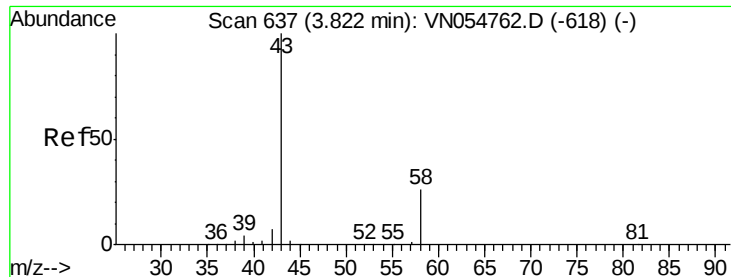
100

50

0

Time--> 2.54 2.54 2.55 2.56 2.56





#16

Acetone

Concen: 2.737 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

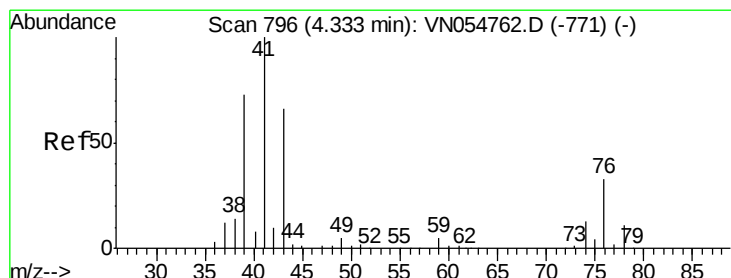
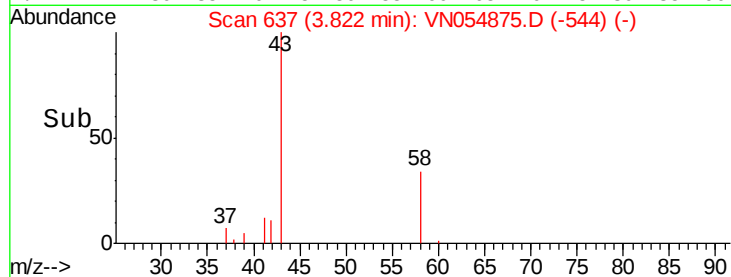
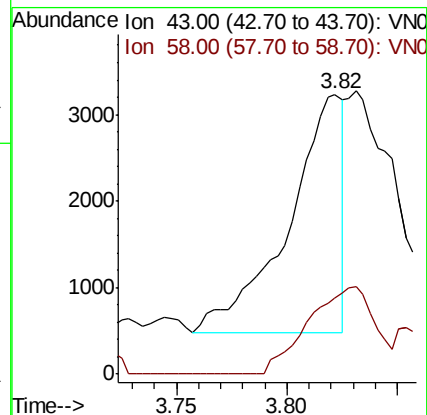
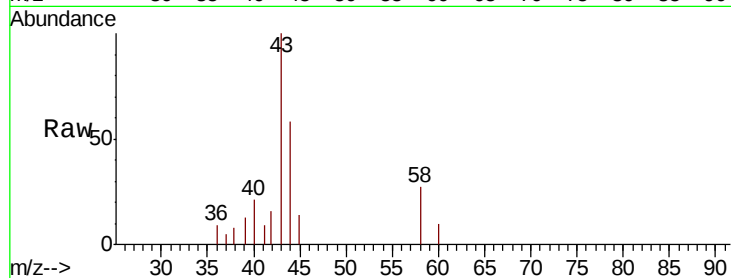
S8A(10)

Tot Ion: 43 Resp: 4720

Ion Ratio Lower Upper

43 100

58 31.9 29.9 44.9



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN054875.D

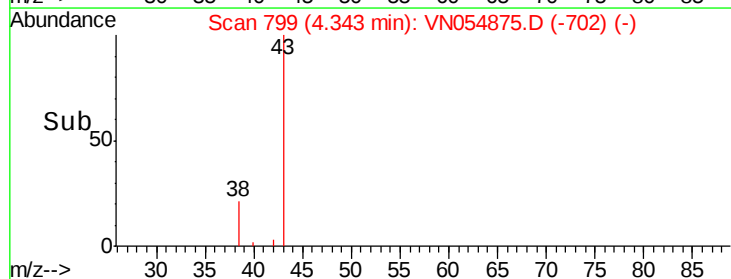
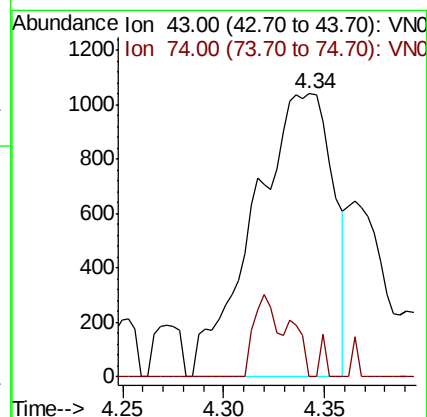
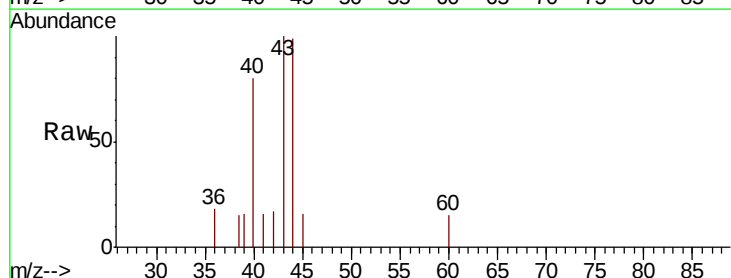
Acq: 1 Apr 2019 15:30

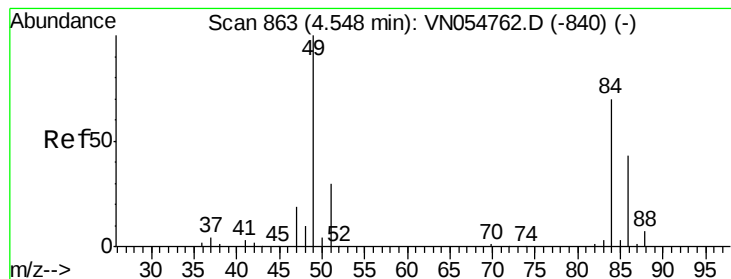
Tgt Ion: 43 Resp: 2824

Ion Ratio Lower Upper

43 100

74 1.1 20.8 31.2#





#20

Methylene Chloride

Concen: 4.294 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

S8A(10)

Tot Ion: 84 Resp: 26122

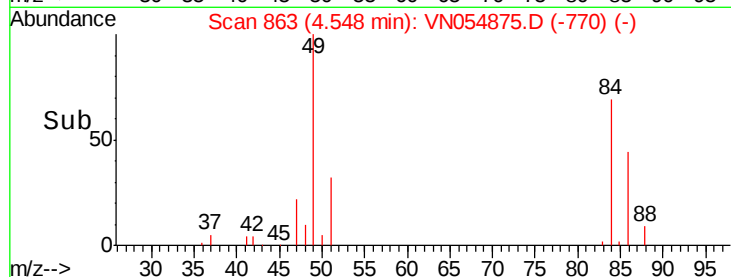
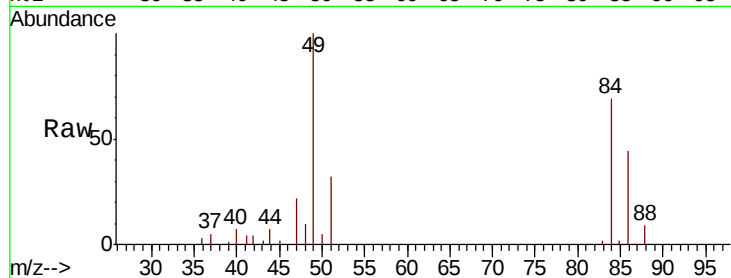
Ion Ratio Lower Upper

84 100

49 145.1 89.7 134.5#

51 46.7 28.2 42.4#

86 64.5 50.8 76.2

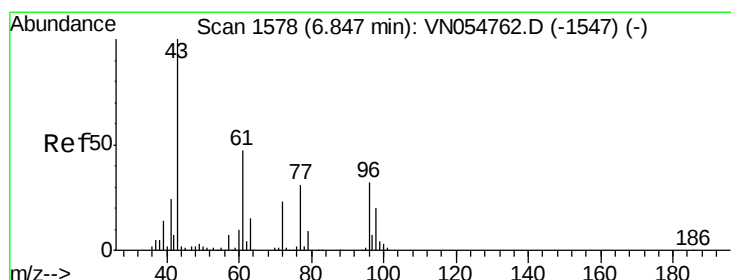
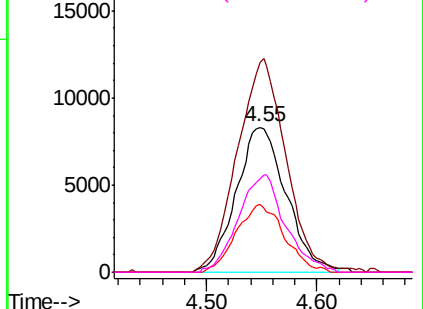


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.019 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN054875.D

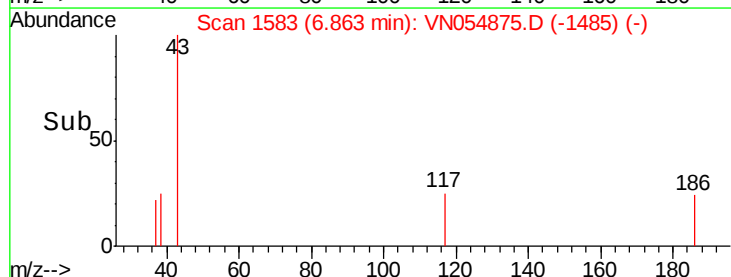
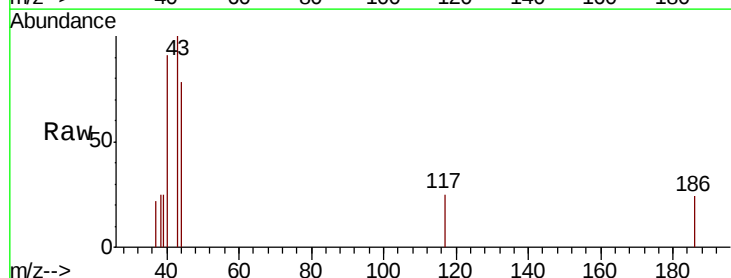
Acq: 1 Apr 2019 15:30

Tgt Ion: 43 Resp: 2597

Ion Ratio Lower Upper

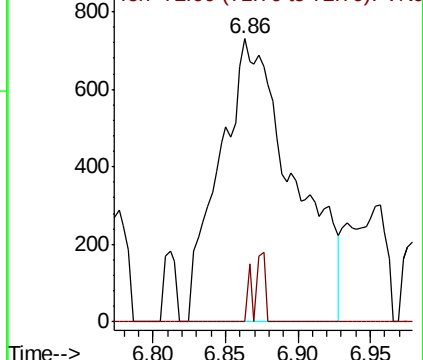
43 100

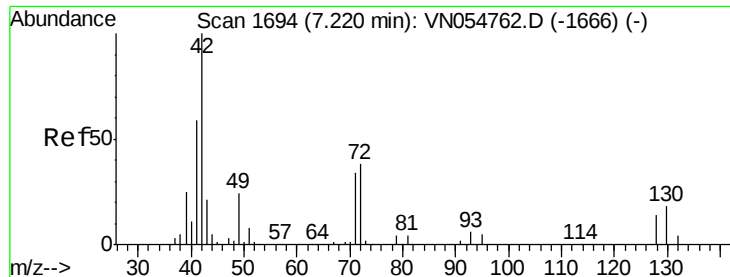
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.508 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

S8A(10)

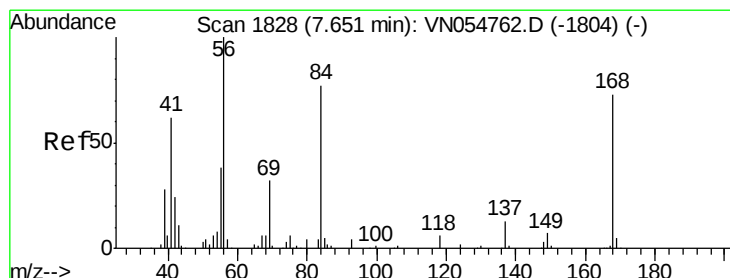
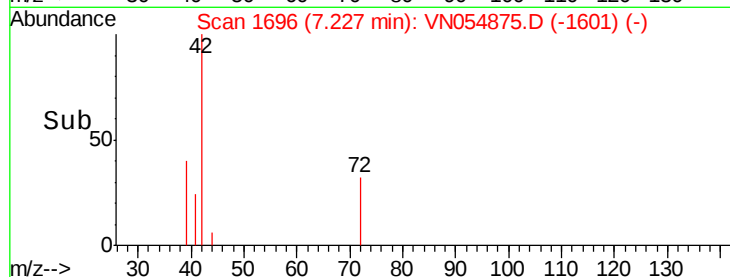
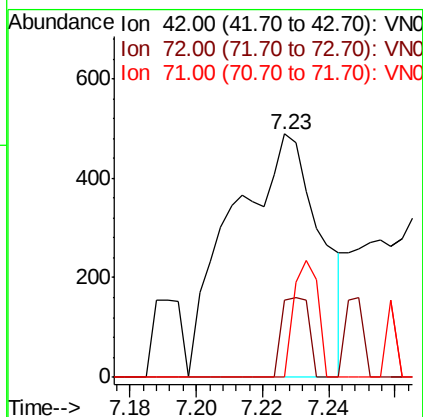
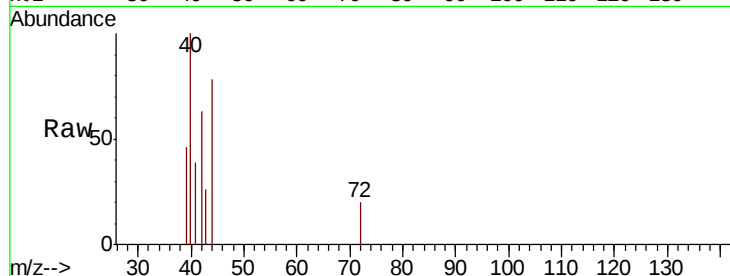
Tot Ion: 42 Resp: 899

Ion Ratio Lower Upper

42 100

72 10.1 37.8 56.6#

71 13.3 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

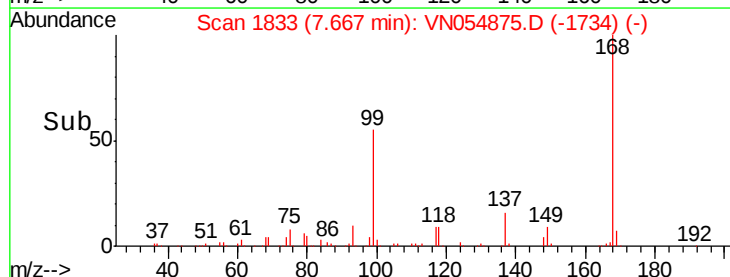
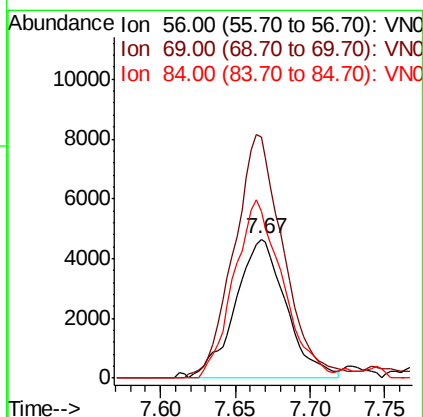
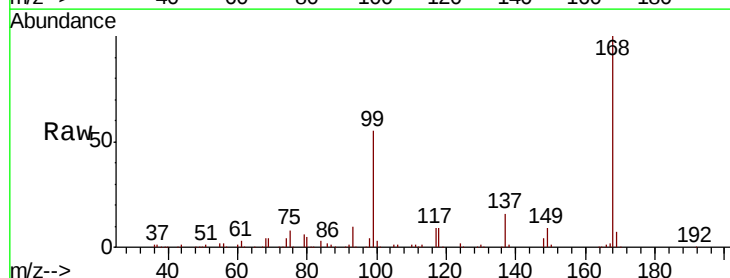
Tgt Ion: 56 Resp: 10961

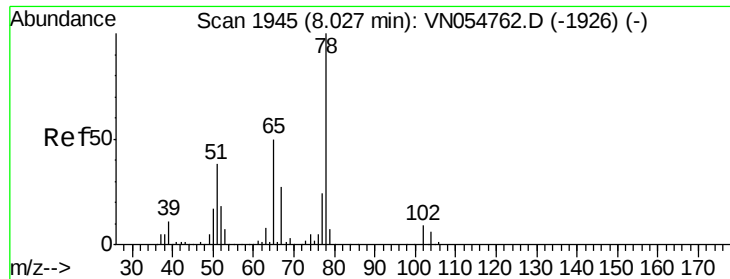
Ion Ratio Lower Upper

56 100

69 169.5 27.8 41.6#

84 119.6 74.6 111.8#

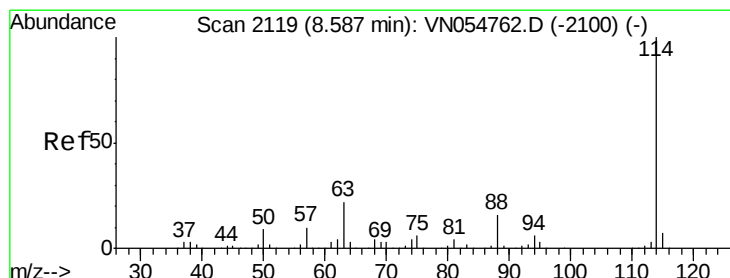
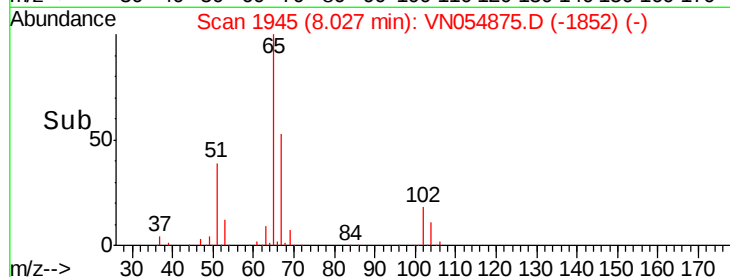
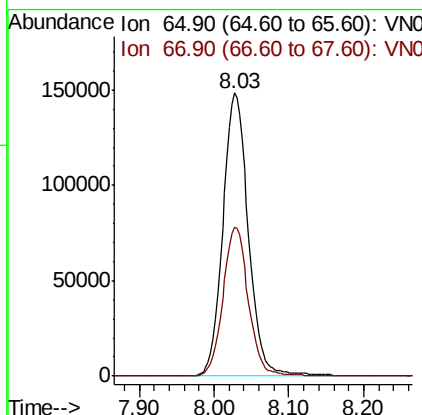
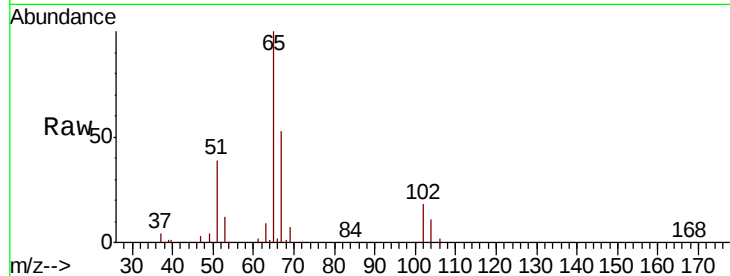




#33
 1,2-Dichloroethane-d4
 Concen: 48.329 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054875.D
 Acq: 1 Apr 2019 15:30

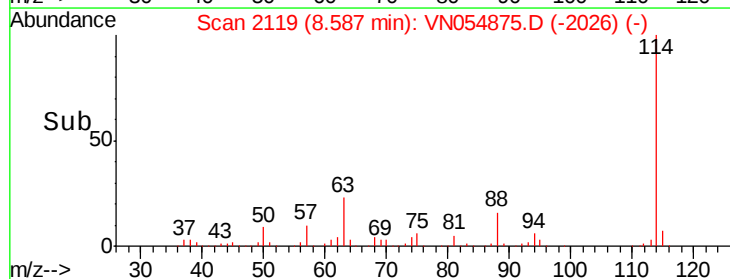
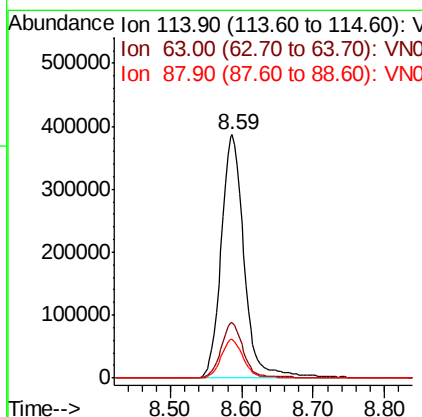
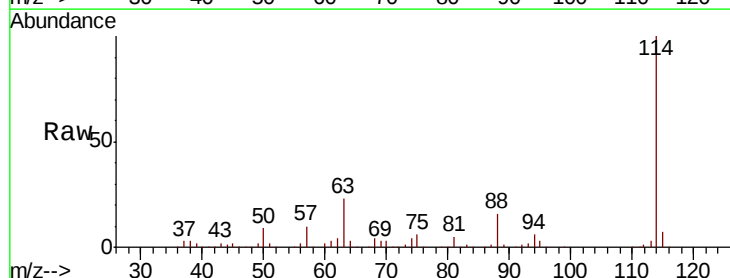
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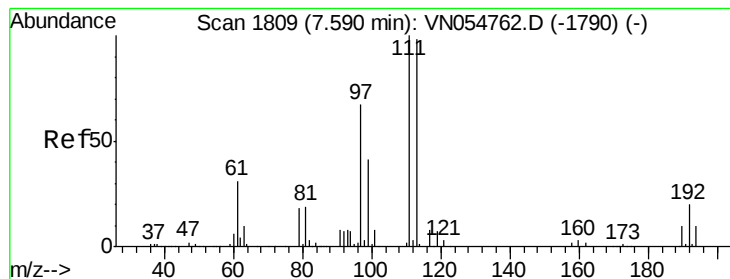
Tot Ion: 65 Resp: 349536
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054875.D
 Acq: 1 Apr 2019 15:30

Tgt Ion: 114 Resp: 862902
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 35.2
 88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.684 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

S8A(10)

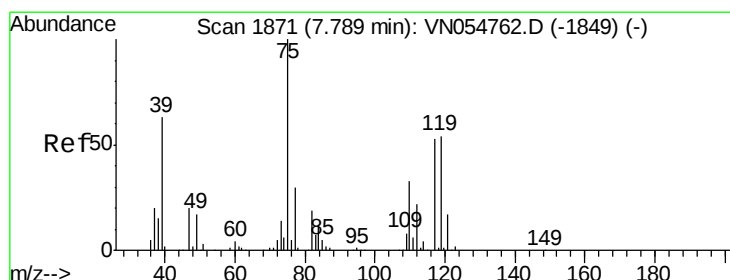
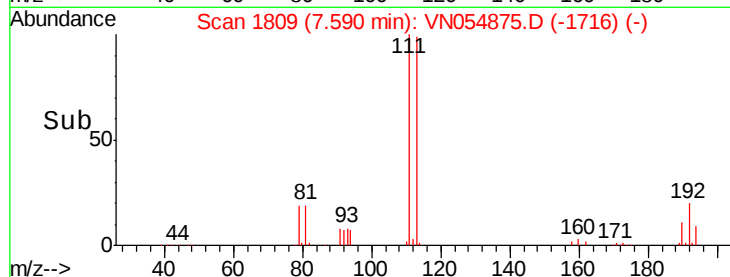
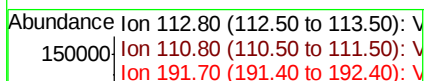
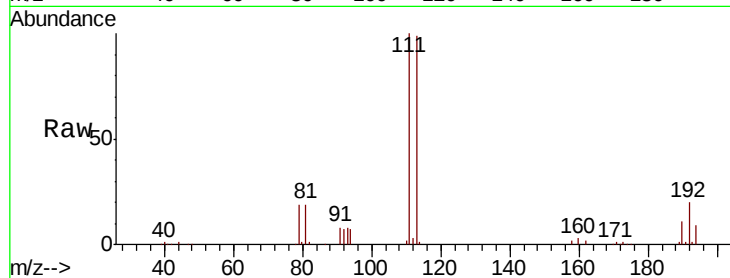
Tot Ion:113 Resp: 280071

Ion Ratio Lower Upper

113 100

111 100.9 82.2 123.4

192 20.6 19.2 28.8



#36

1,1-Dichloropropene

Concen: 5.155 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

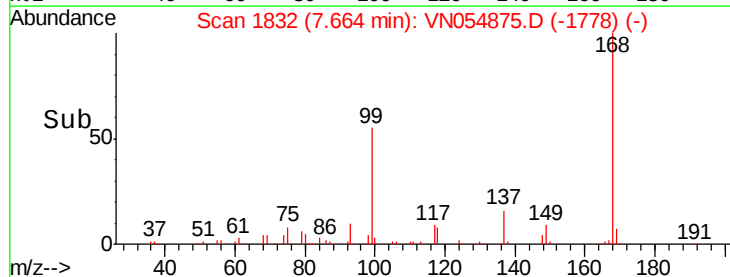
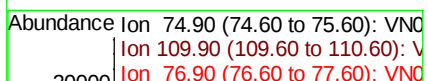
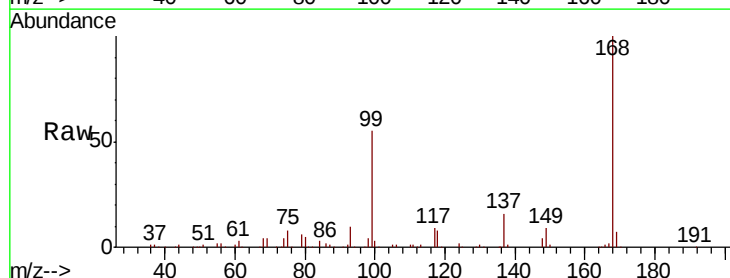
Tgt Ion: 75 Resp: 41449

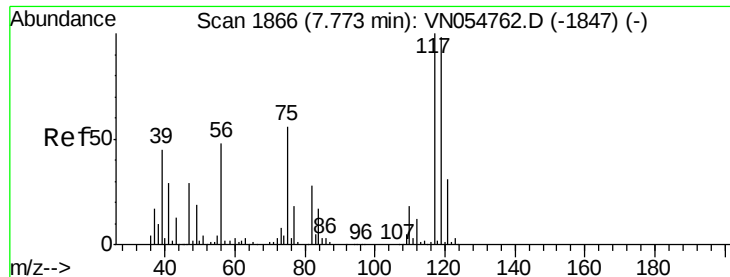
Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.5#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.327 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

S8A(10)

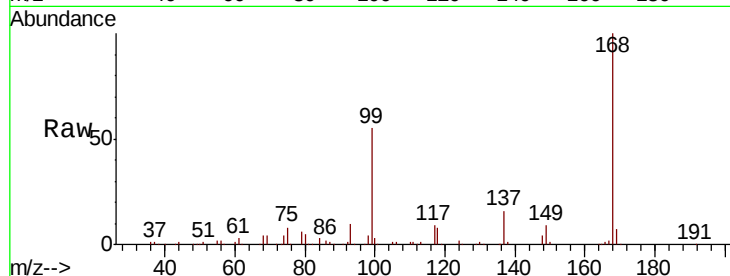
Tot Ion:117 Resp: 49411

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

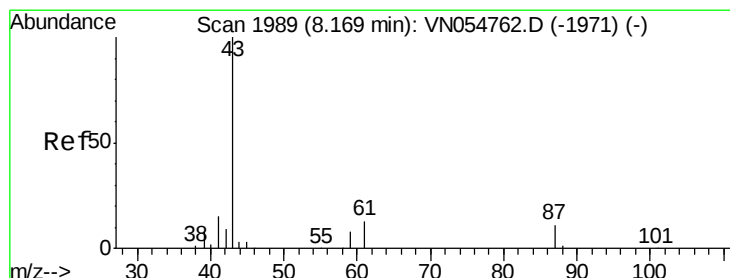
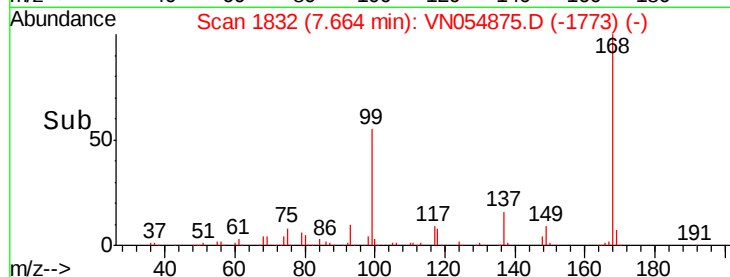
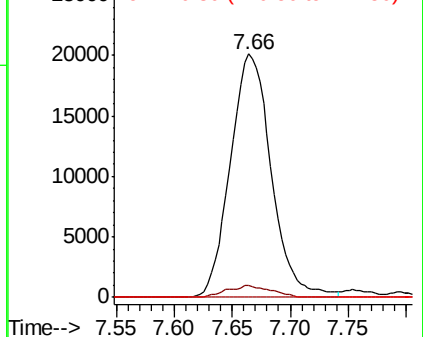
121 0.0 24.6 36.8#



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: 1.460 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

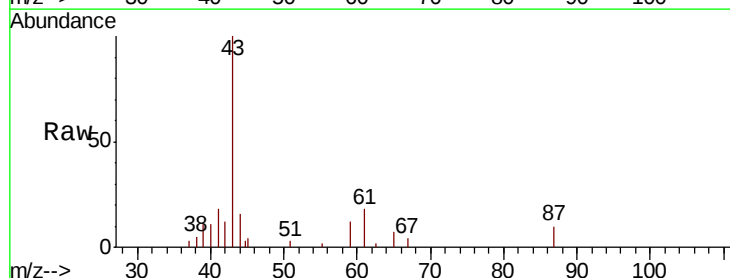
Tgt Ion: 43 Resp: 13989

Ion Ratio Lower Upper

43 100

61 17.4 15.8 23.8

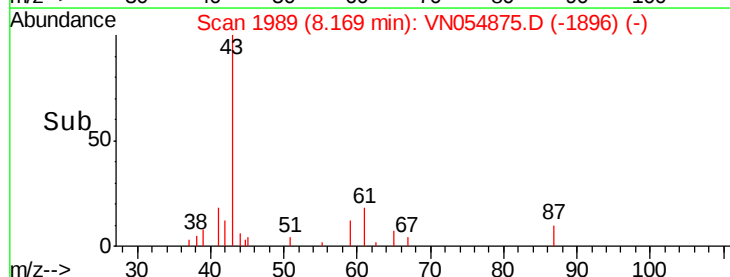
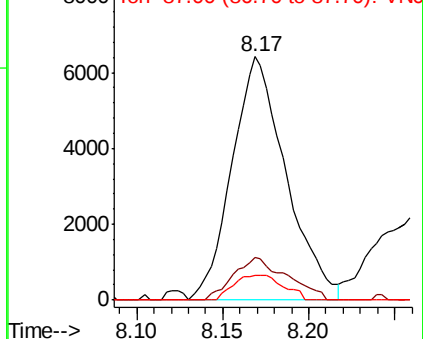
87 9.3 12.0 18.0#

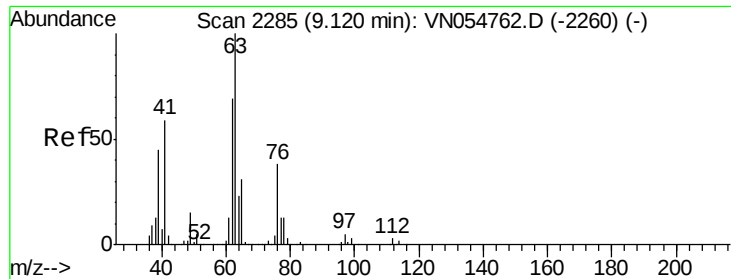


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

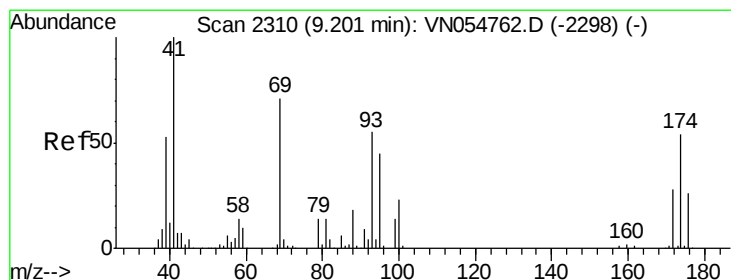
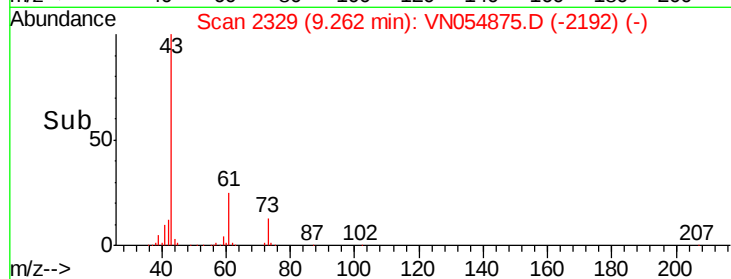
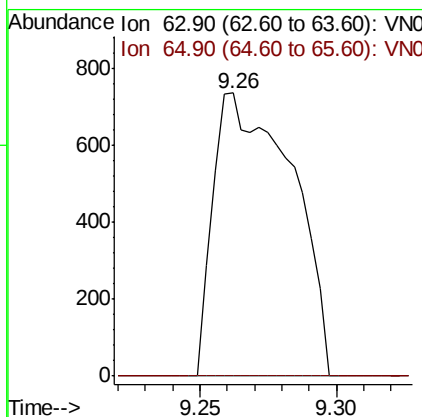
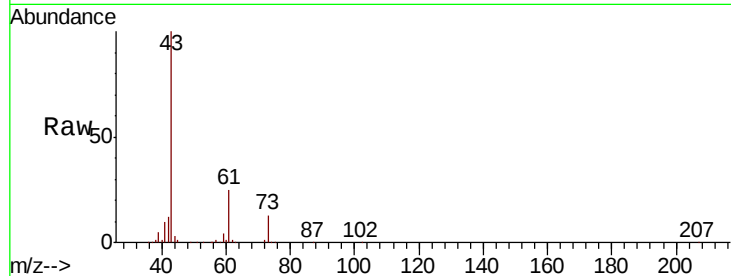




#45
 1,2-Dichloropropane
 Concen: 0.224 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN054875.D
 Acq: 1 Apr 2019 15:30

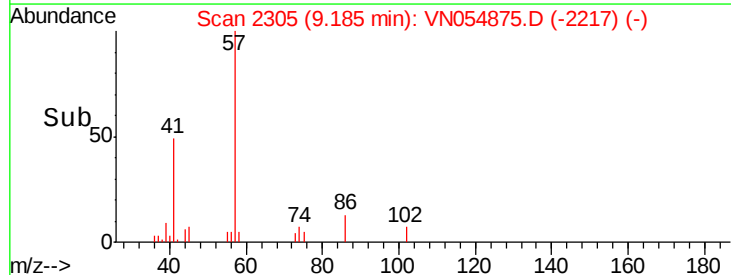
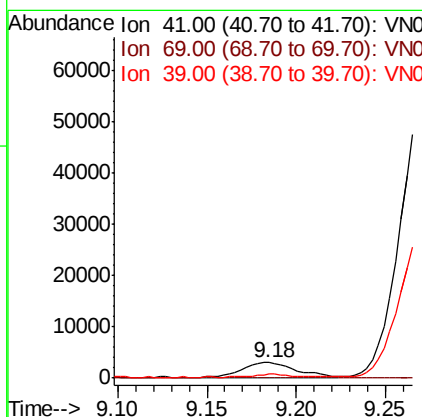
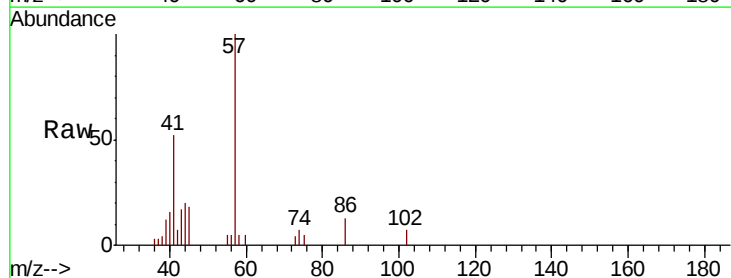
Instrument :
 MSVOA_N
 ClientSampleId :
 S8A(10)

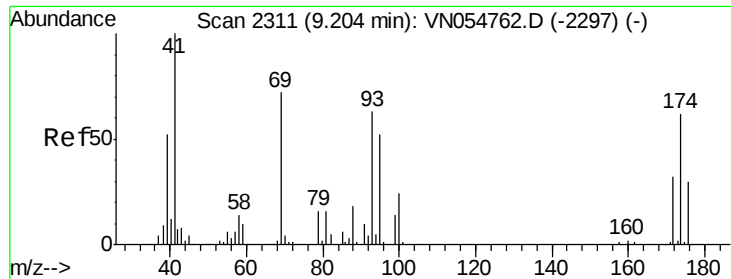
Tot Ion: 63 Resp: 1471
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.328 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054875.D
 Acq: 1 Apr 2019 15:30

Tgt Ion: 41 Resp: 6899
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 0.602 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.05 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

S8A(10)

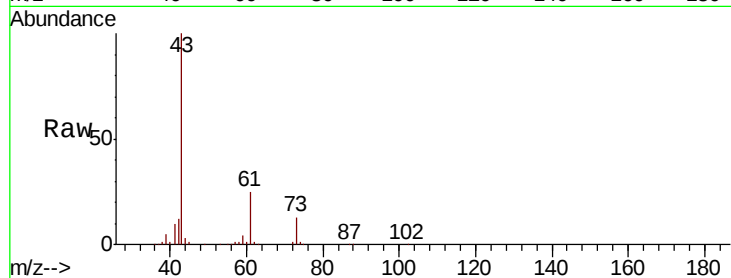
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 3544722.6 24.1 36.1#

58 15748.4 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600000

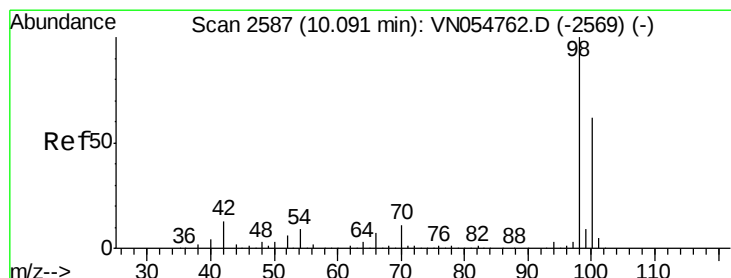
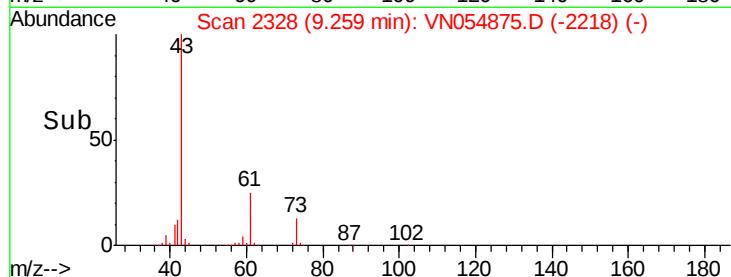
400000

200000

0

9.26

Time-->



#50

Toluene-d8

Concen: 49.617 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054875.D

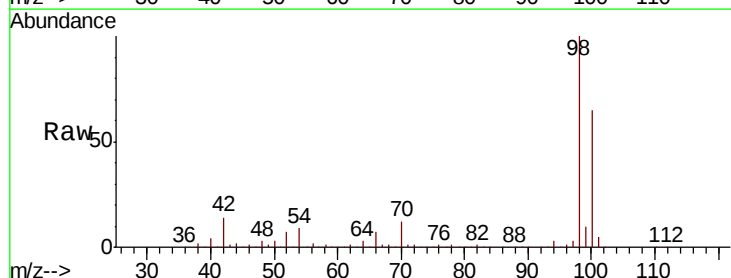
Acq: 1 Apr 2019 15:30

Tgt Ion: 98 Resp: 1061207

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

600000

500000

400000

300000

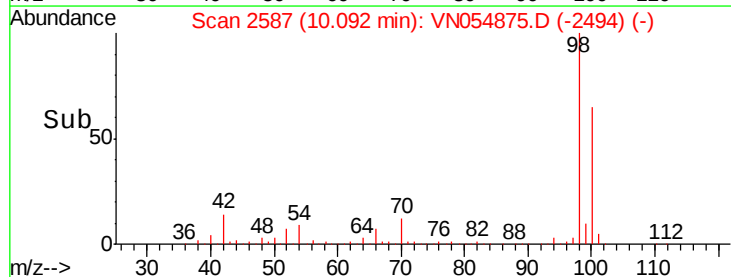
200000

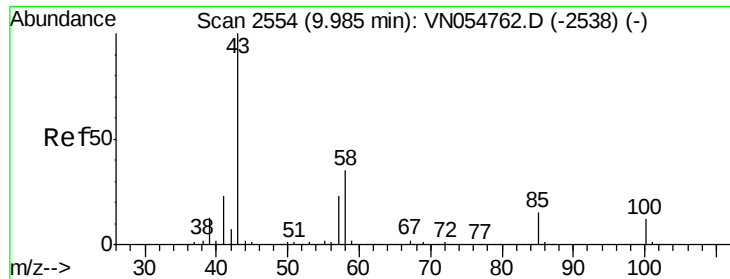
100000

0

10.09

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.865 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

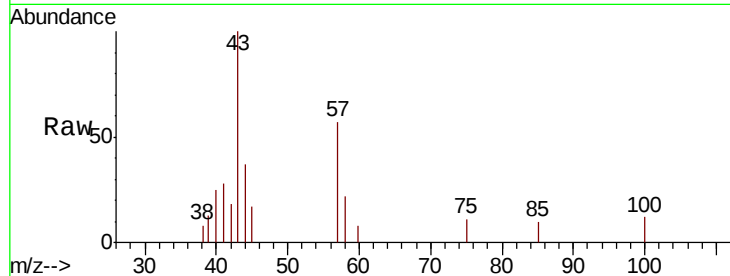
S8A(10)

Tot Ion: 43 Resp: 4659

Ion Ratio Lower Upper

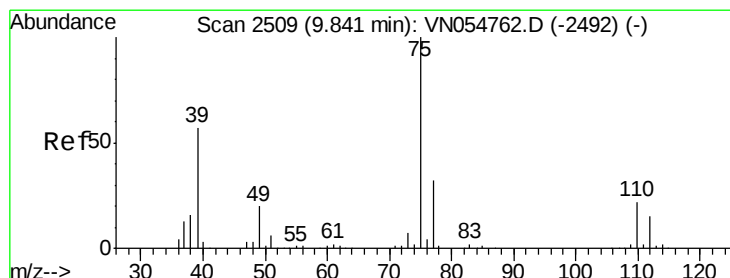
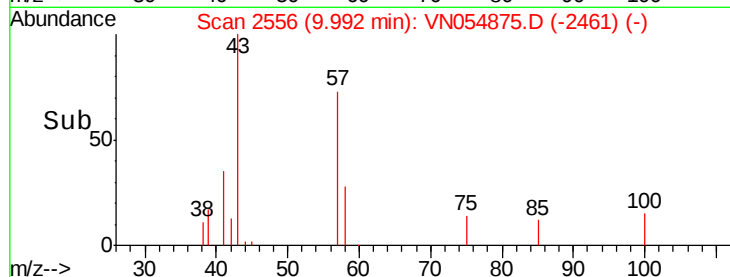
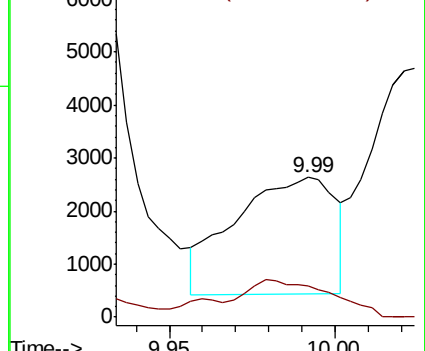
43 100

58 27.3 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.621 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

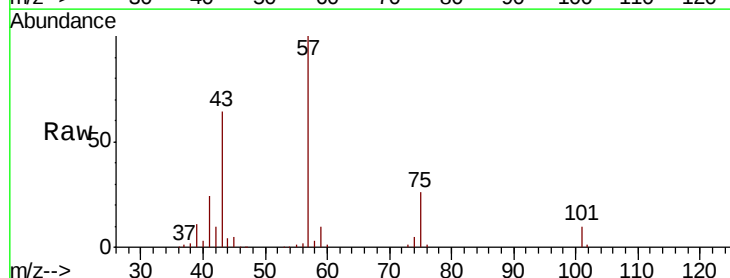
Tgt Ion: 75 Resp: 48443

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

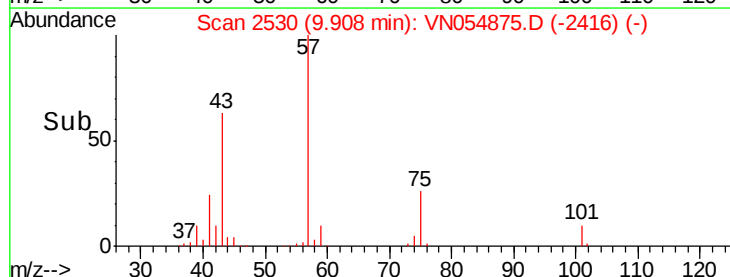
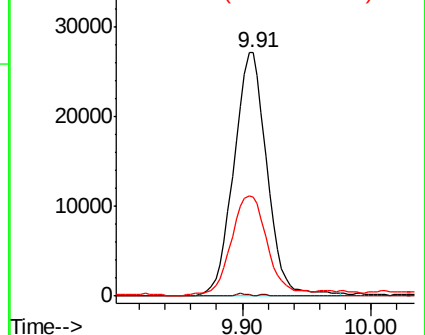
39 39.9 37.2 55.8

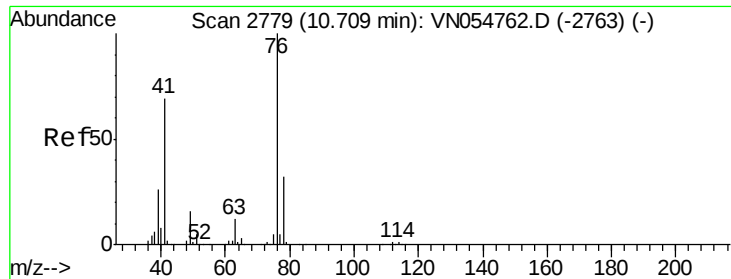


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.930 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

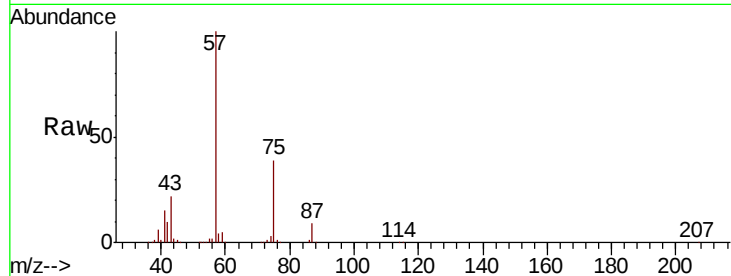
S8A(10)

Tot Ion: 76 Resp: 8135

Ion Ratio Lower Upper

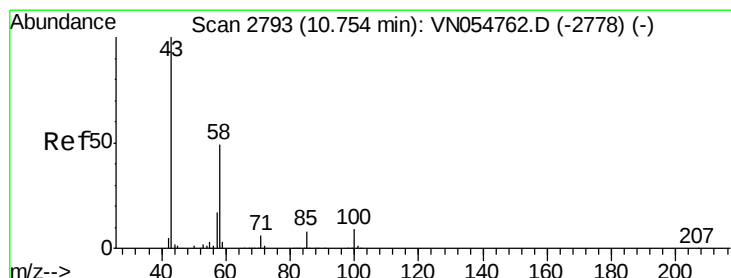
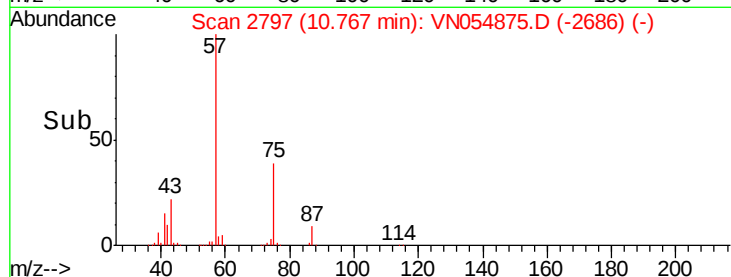
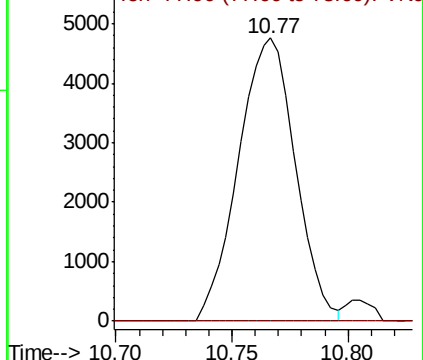
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 40.951 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054875.D

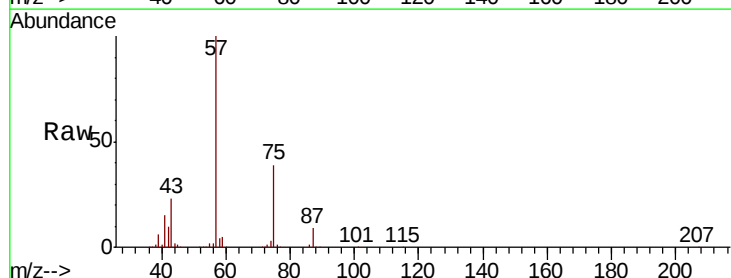
Acq: 1 Apr 2019 15:30

Tgt Ion: 43 Resp: 141208

Ion Ratio Lower Upper

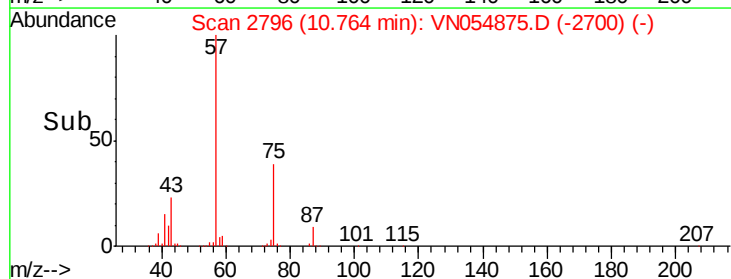
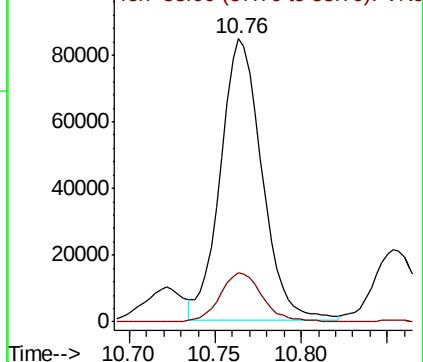
43 100

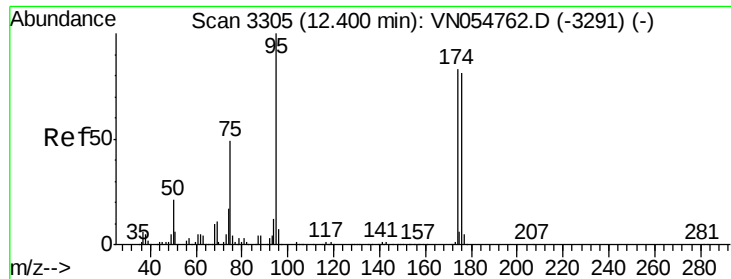
58 18.0 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.073 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

S8A(10)

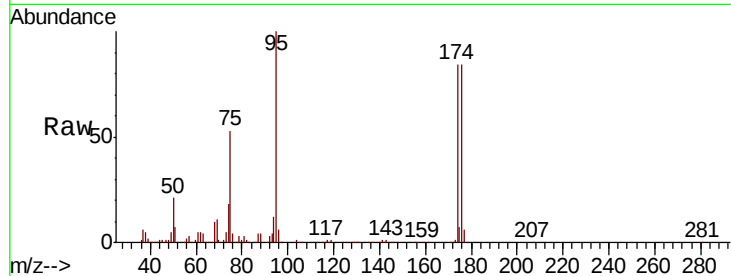
Tot Ion: 95 Resp: 313500

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

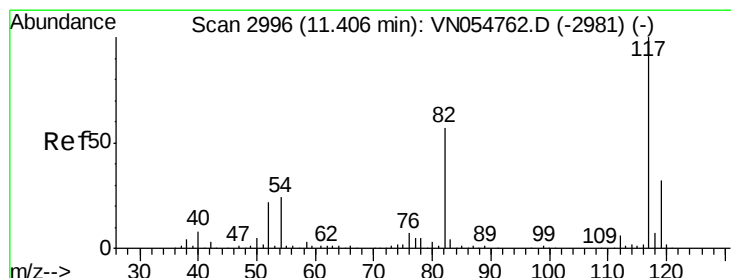
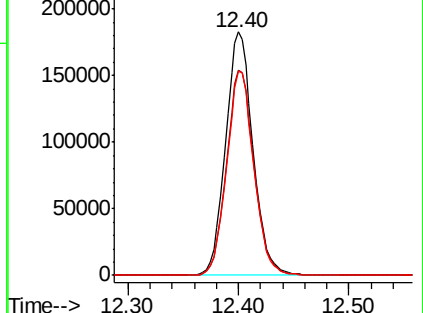
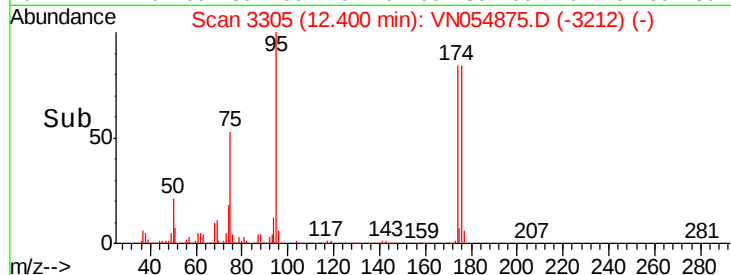
176 83.2 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054875.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054875.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054875.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

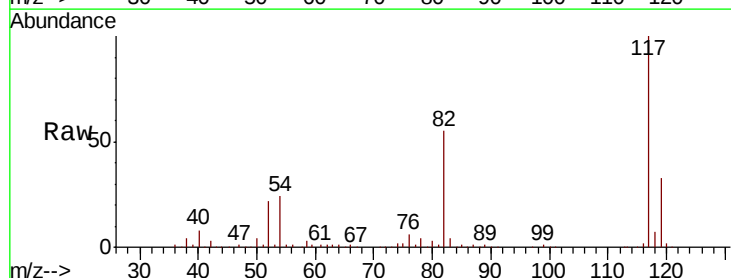
Tgt Ion: 117 Resp: 751400

Ion Ratio Lower Upper

117 100

82 55.1 40.0 60.0

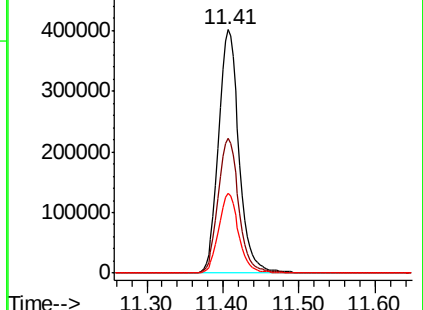
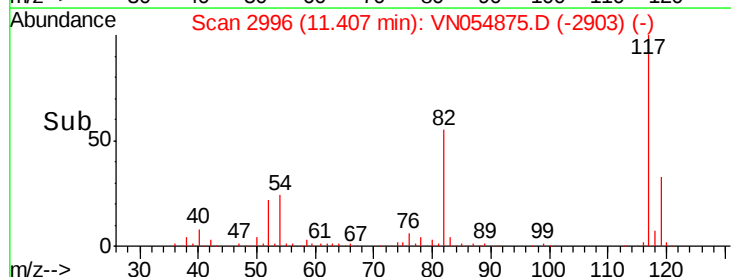
119 32.7 25.8 38.6

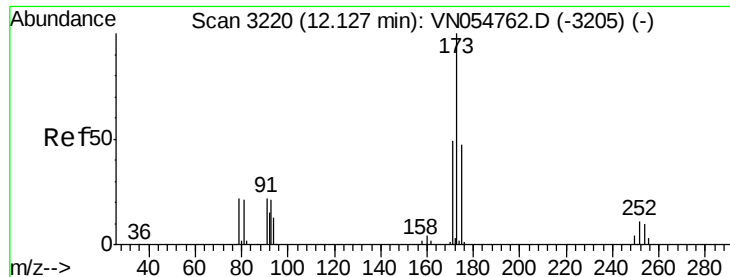


Abundance Ion 116.90 (116.60 to 117.60): VN054875.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054875.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054875.D (-2903) (-)





#71

Bromoform

Concen: 0.989 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

S8A(10)

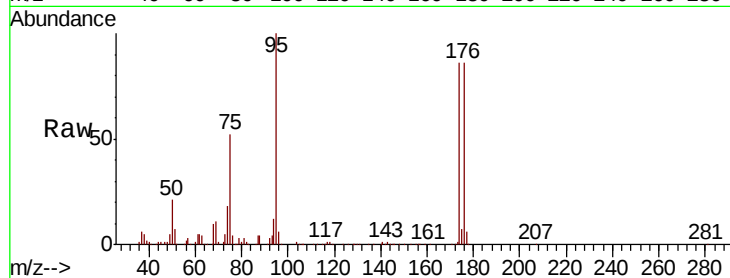
Tot Ion:173 Resp: 3191

Ion Ratio Lower Upper

173 100

175 549.9 24.4 73.2#

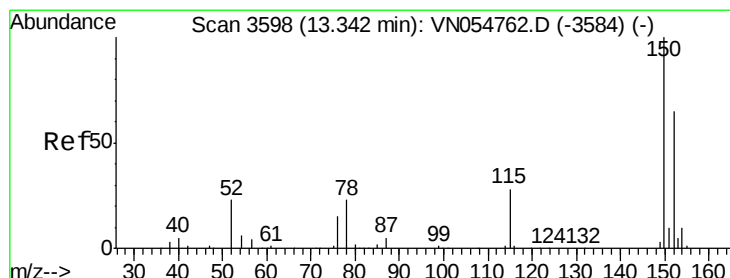
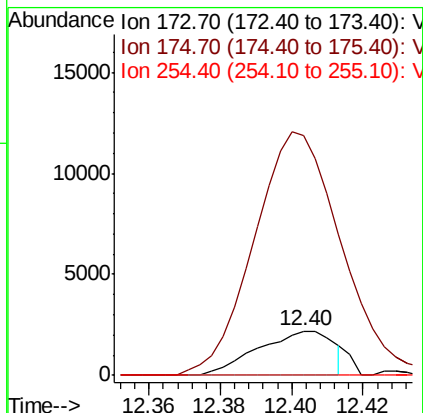
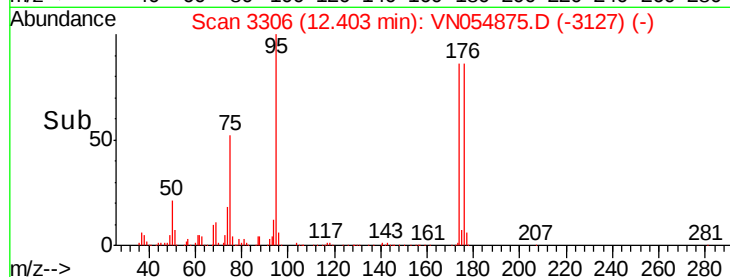
254 0.0 0.1 0.1#



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: VN054875.D

Acq: 1 Apr 2019 15:30

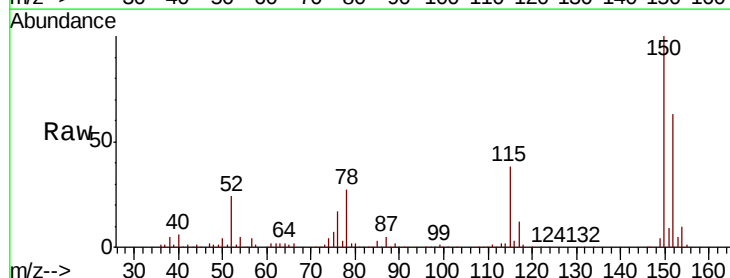
Tgt Ion:152 Resp: 249102

Ion Ratio Lower Upper

152 100

115 59.3 27.2 81.6

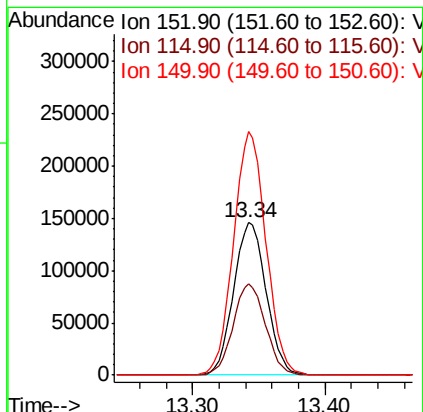
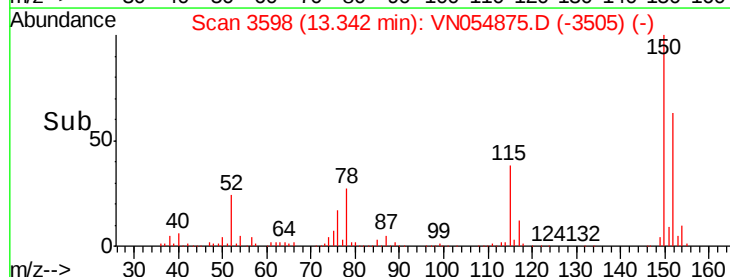
150 158.5 0.0 349.2

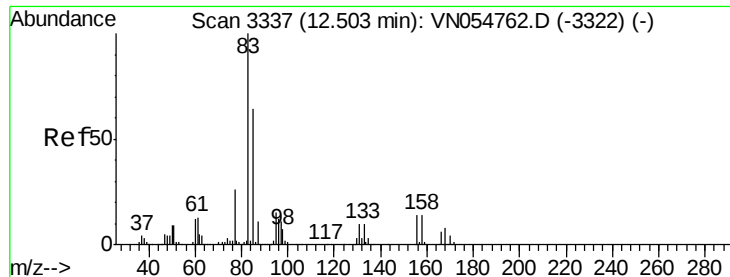


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

S8A(10)

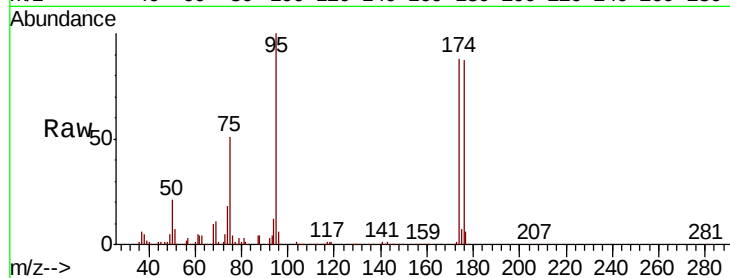
Tot Ion: 83 Resp: 254

Ion Ratio Lower Upper

83 100

131 166.1 5.8 17.4#

85 0.0 32.2 96.6#

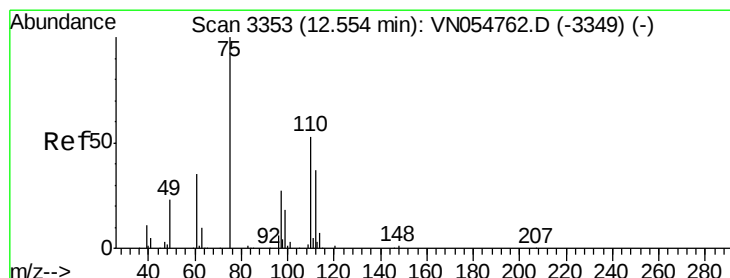
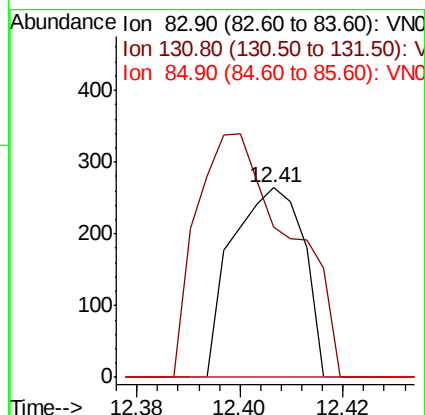
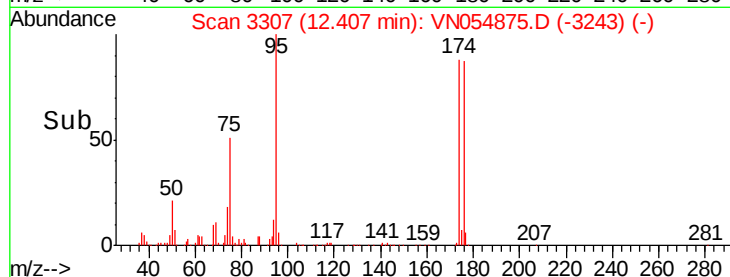


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

Time--> 12.38 12.40 12.42



#76

1,2,3-Trichloropropane

Concen: 37.553 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054875.D

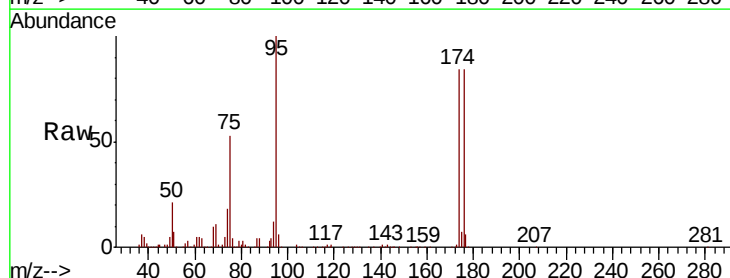
Acq: 1 Apr 2019 15:30

Tgt Ion: 75 Resp: 162509

Ion Ratio Lower Upper

75 100

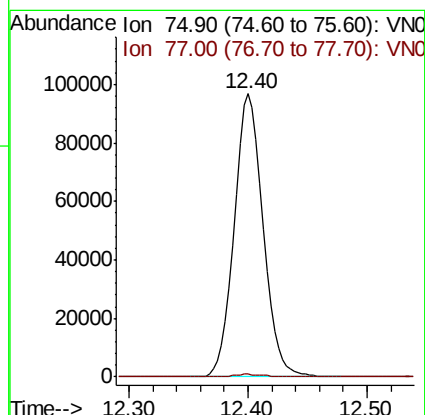
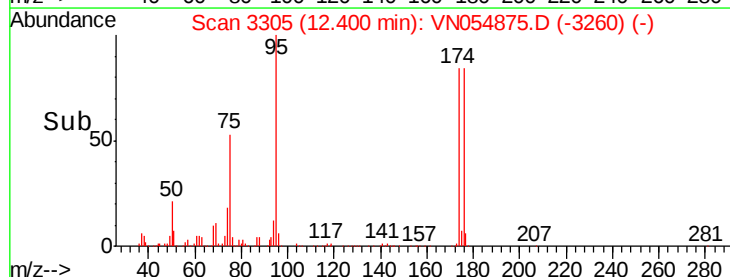
77 1.0 0.0 0.0#

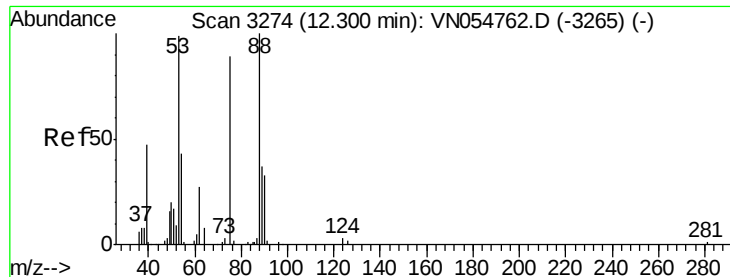


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time--> 12.30 12.40 12.50





#81

trans-1,4-Dichloro-2-butene

Concen: 146.071 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054875.D

Acq: 1 Apr 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

S8A(10)

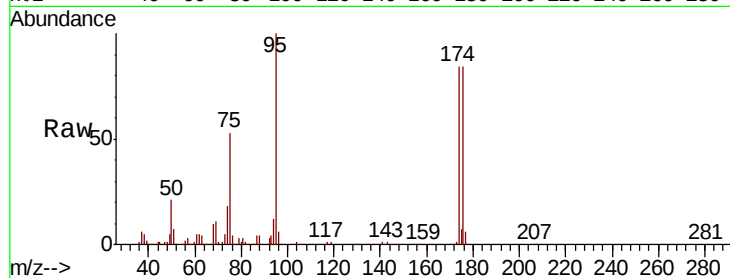
Tot Ion: 75 Resp: 162509

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): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

