

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040319\
 Data File : VN054922.D
 Acq On : 3 Apr 2019 13:22
 Operator : JC/SP
 Sample : K2221-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

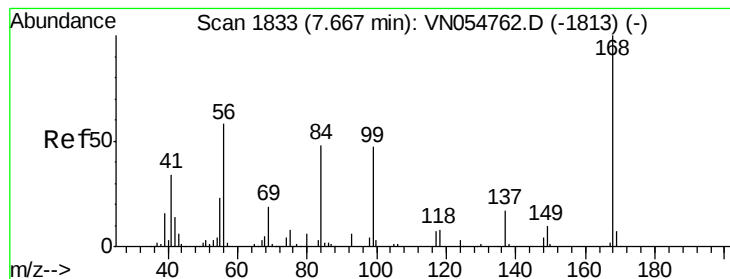
Quant Time: Apr 04 01:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	508309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	856493	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	722714	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	247925	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	336075	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
35) Dibromofluoromethane	7.59	113	274323	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	10.09	98	1030867	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.40	95	305049	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	281	Below Cal		81
16) Acetone	3.82	43	17710	10.838	ug/l #	78
18) Methyl Acetate	4.34	43	1371	Below Cal		90
20) Methylene Chloride	4.55	84	63422	11.004	ug/l #	79
25) 2-Butanone	6.87	43	1776	0.735	ug/l #	46
29) Tetrahydrofuran	7.23	42	793	0.473	ug/l #	76
31) Cyclohexane	7.66	56	11156	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	40258	5.044	ug/l #	48
38) Carbon Tetrachloride	7.67	117	47205	6.090	ug/l #	16
43) Isopropyl Acetate	8.17	43	15893	1.671	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1621	0.249	ug/l #	43
48) Methyl methacrylate	9.19	41	7500	1.455	ug/l #	25
49) 1,4-Dioxane	9.27	88	103	2.014	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9224	1.725	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	56837	6.644	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	9975	1.148	ug/l #	43
59) 2-Hexanone	10.76	43	167572	48.960	ug/l #	47
71) Bromoform	12.40	173	2447	0.789	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	29	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	158016	36.688	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158016	142.707	ug/l #	11
83) tert-Butylbenzene	12.99	119	123	Below Cal	#	53
95) Naphthalene	15.14	128	1816	0.203	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

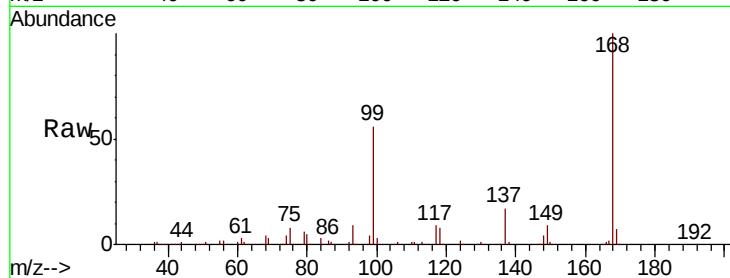
ClientSampleId :

Tot Ion:168 Resp: 508309

Ion Ratio Lower Upper

168 100

99 55.8 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054922.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054922.D (-1740) (-)

7.67

200000

150000

100000

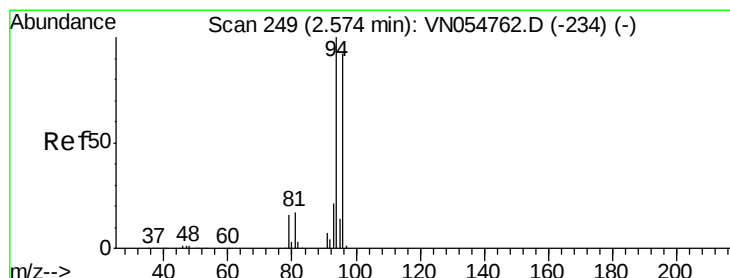
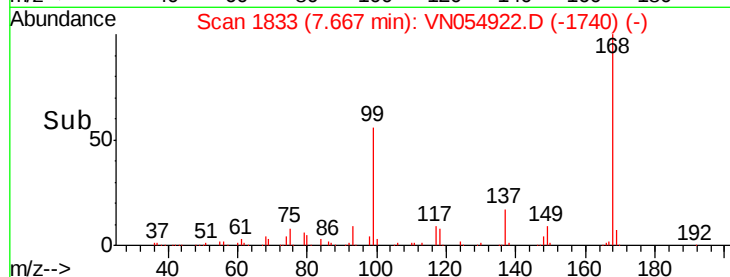
50000

0

7.60

7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054922.D

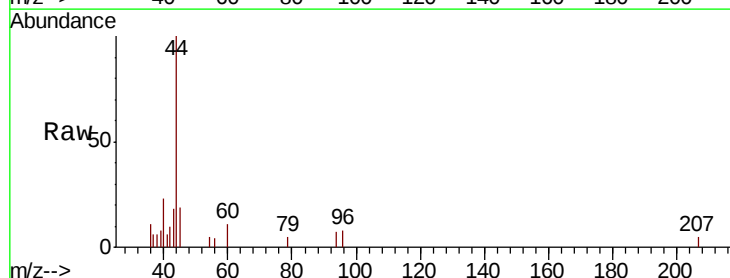
Acq: 3 Apr 2019 13:22

Tgt Ion: 94 Resp: 281

Ion Ratio Lower Upper

94 100

96 114.7 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054922.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054922.D (-156) (-)

2.58

300

200

100

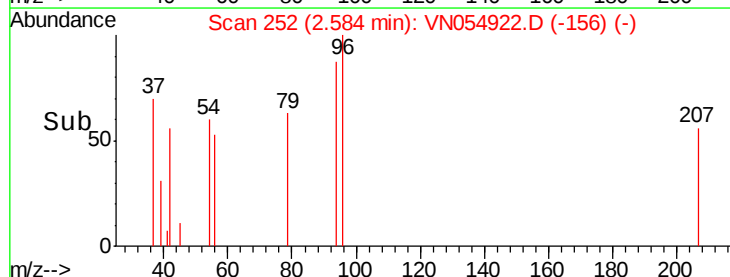
0

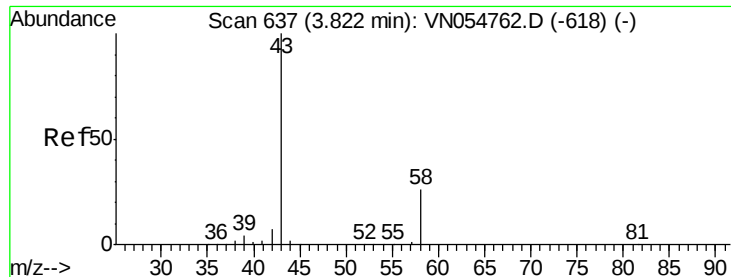
2.56

2.58

2.60

Time-->





#16

Acetone

Concen: 10.838 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

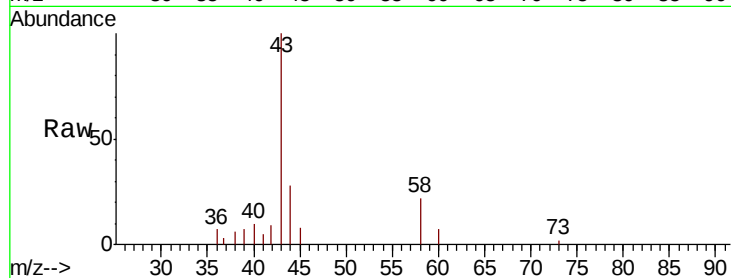
ClientSampled :

Tot Ion: 43 Resp: 17710

Ion Ratio Lower Upper

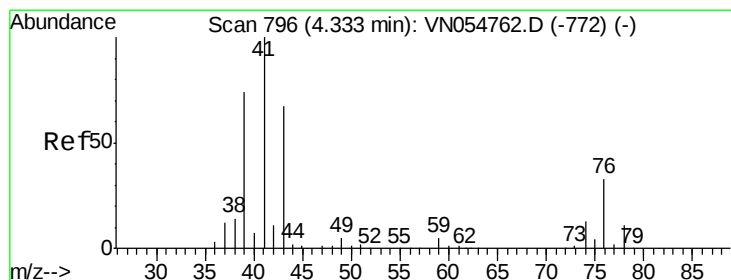
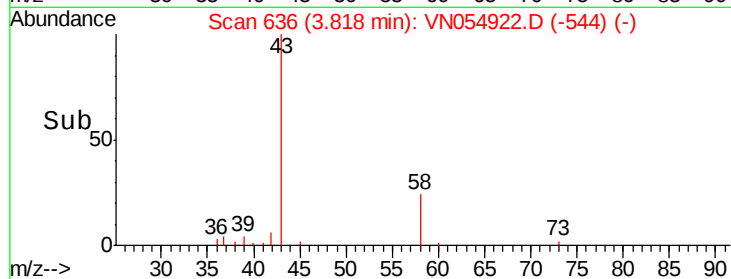
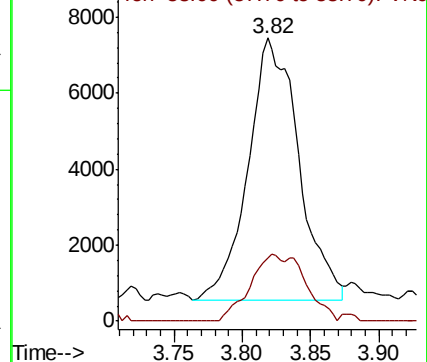
43 100

58 24.2 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.00 min

Lab File: VN054922.D

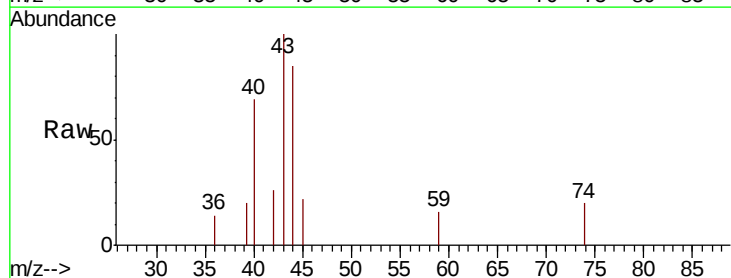
Acq: 3 Apr 2019 13:22

Tgt Ion: 43 Resp: 1371

Ion Ratio Lower Upper

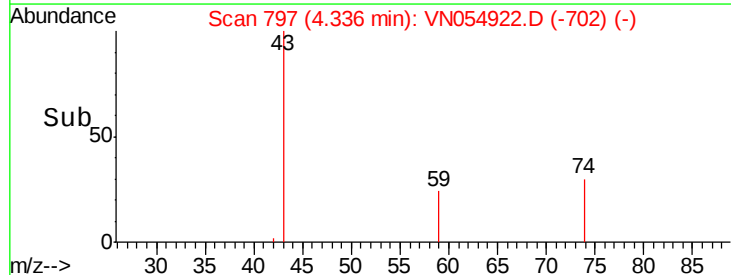
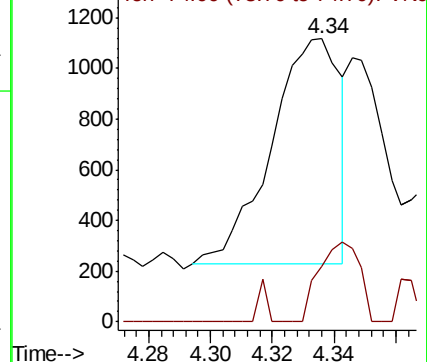
43 100

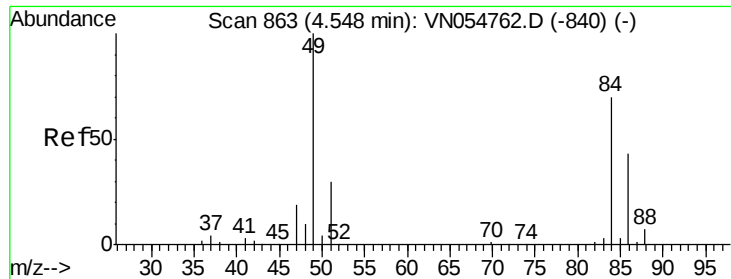
74 20.9 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

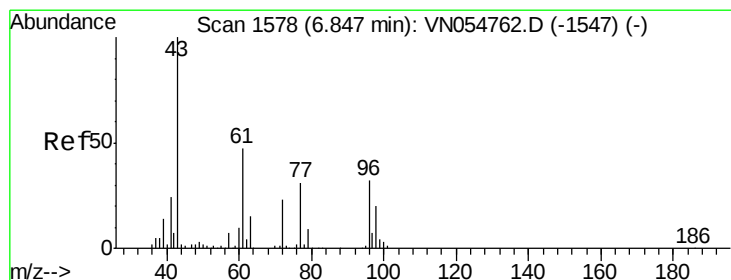
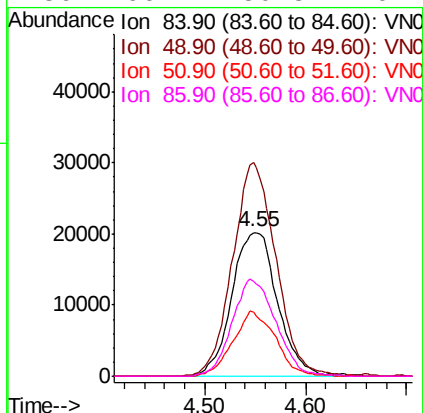
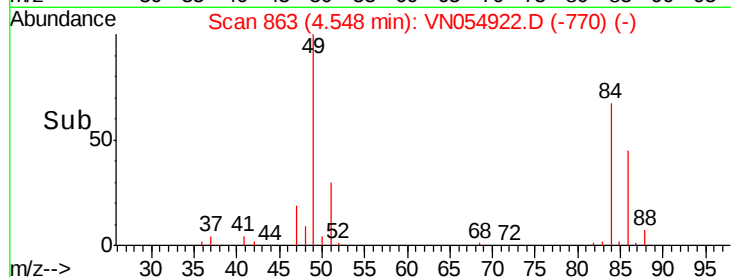
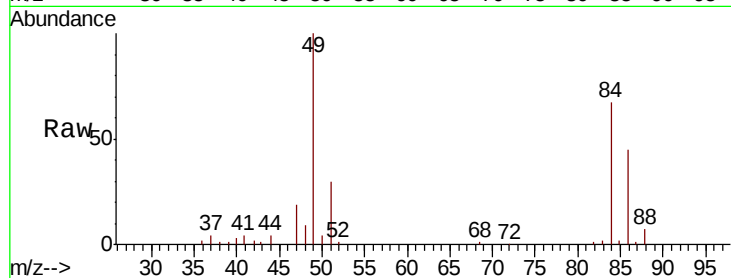




#20
Methvlene Chloride
Concen: 11.004 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054922.D
Acq: 3 Apr 2019 13:22

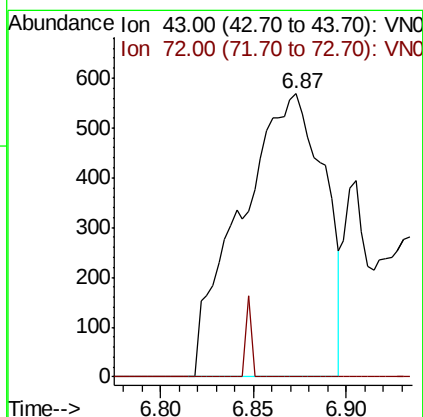
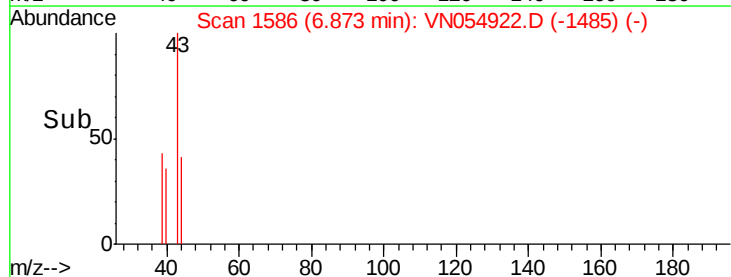
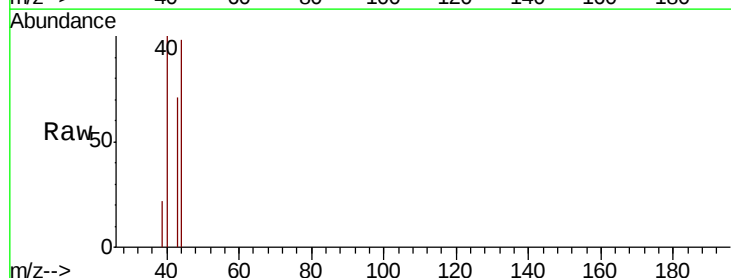
Instrument :
MSVOA_N
ClientSampled :

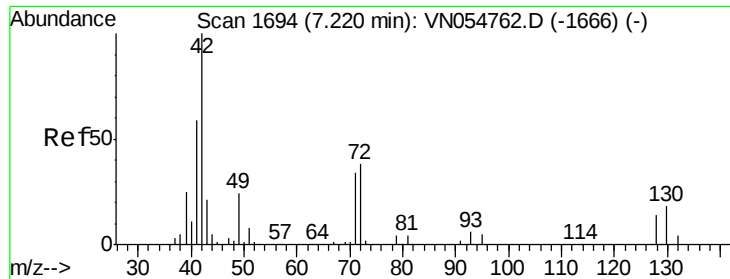
Tot Ion: 84 Resp: 63422
Ion Ratio Lower Upper
84 100
49 147.5 89.7 134.5#
51 44.4 28.2 42.4#
86 66.1 50.8 76.2



#25
2-Butanone
Concen: 0.735 ug/l
RT: 6.87 min Scan# 1586
Delta R.T. 0.03 min
Lab File: VN054922.D
Acq: 3 Apr 2019 13:22

Tgt Ion: 43 Resp: 1776
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#

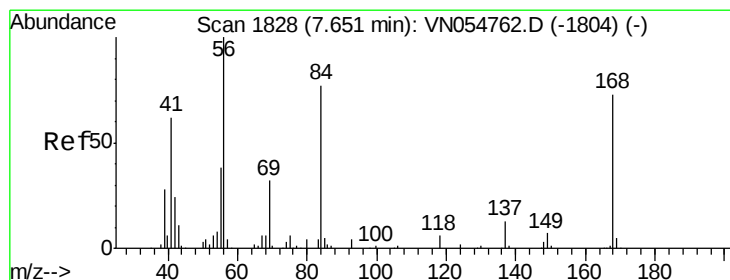
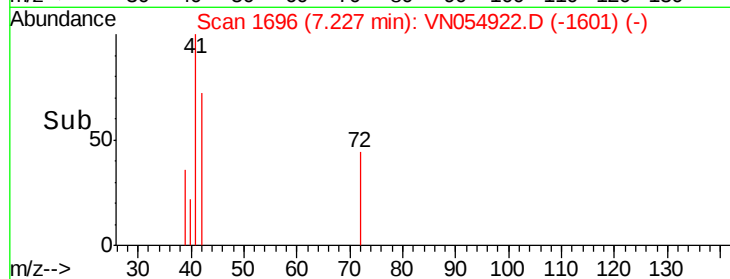
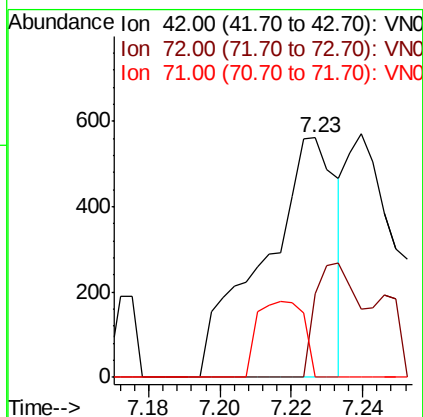
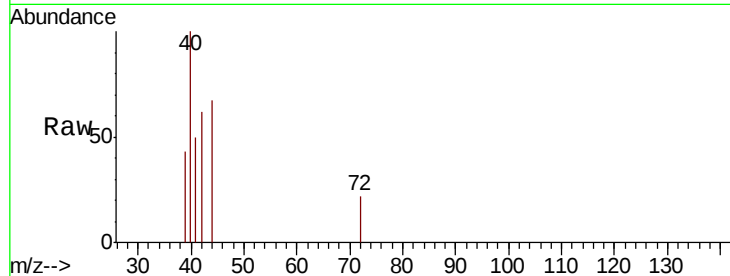




#29
Tetrahydrofuran
Concen: 0.473 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054922.D
Acq: 3 Apr 2019 13:22

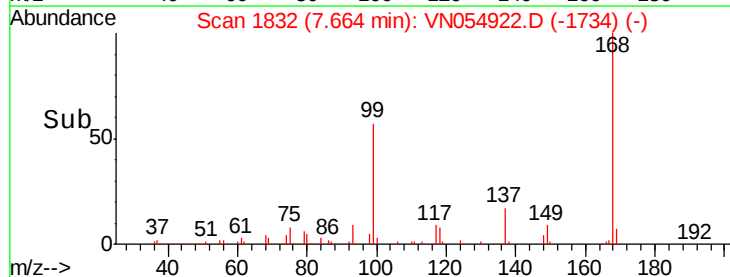
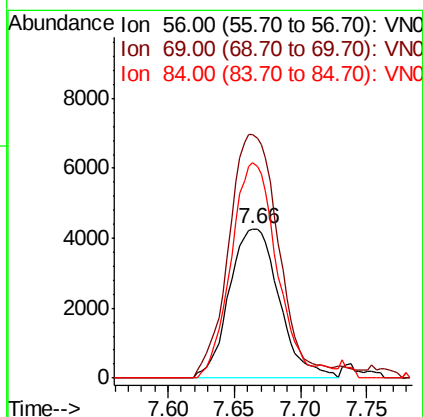
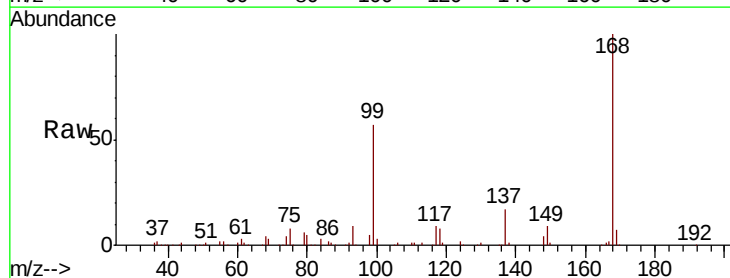
Instrument :
MSVOA_N
ClientSampleId :

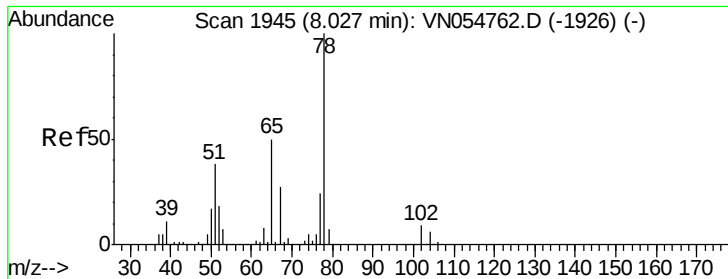
Tot Ion: 42 Resp: 793
Ion Ratio Lower Upper
42 100
72 40.0 37.8 56.6
71 20.1 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054922.D
Acq: 3 Apr 2019 13:22

Tgt Ion: 56 Resp: 11156
Ion Ratio Lower Upper
56 100
69 162.9 27.8 41.6#
84 144.2 74.6 111.8#

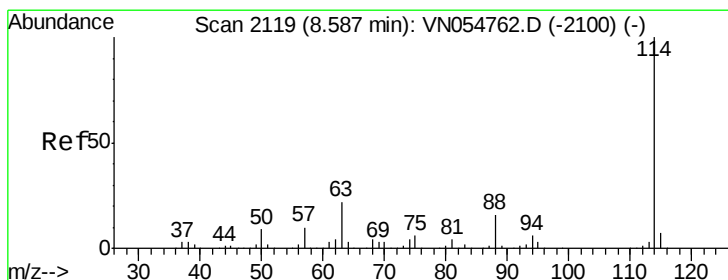
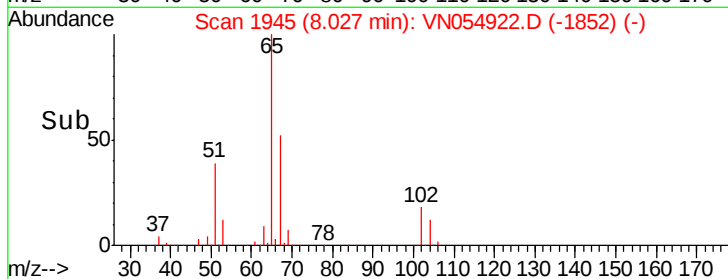
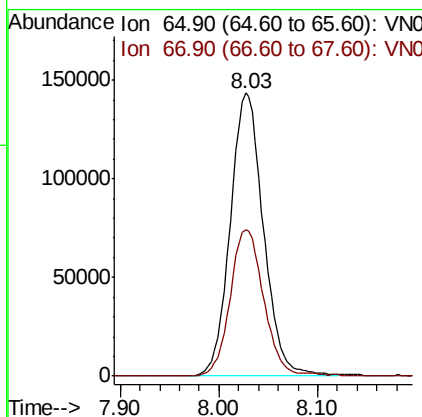
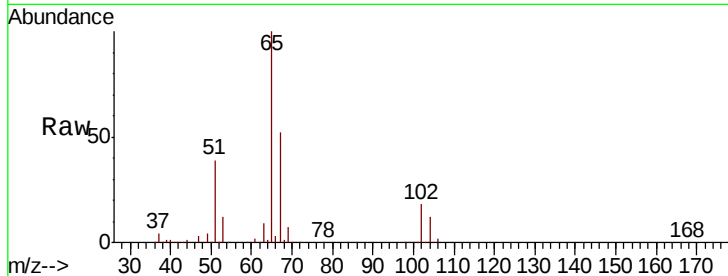




#33
 1,2-Dichloroethane-d4
 Concen: 49.047 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

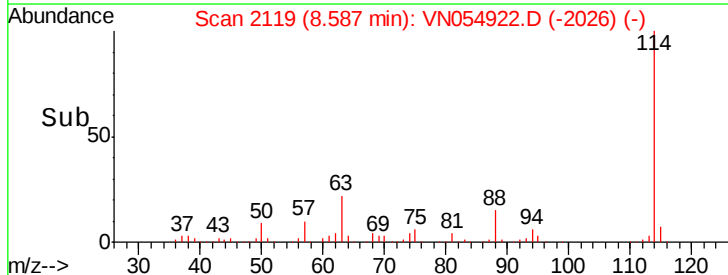
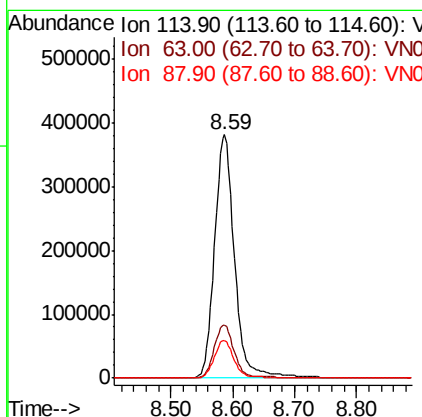
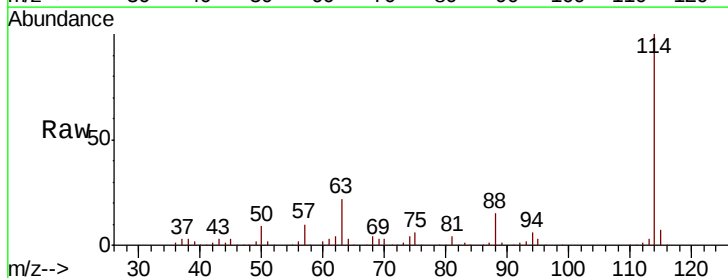
Instrument :
 MSVOA_N
 ClientSampleId :

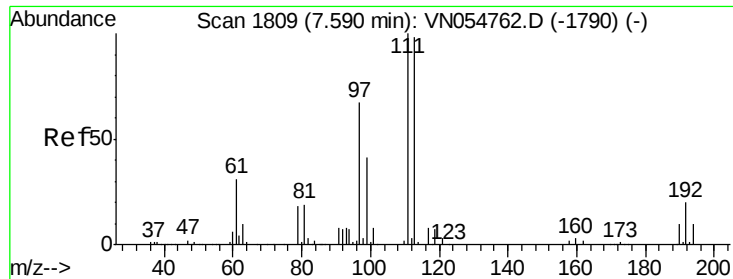
Tot Ion: 65 Resp: 336075
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

Tgt Ion: 114 Resp: 856493
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 35.2
 88 15.5 0.0 30.2

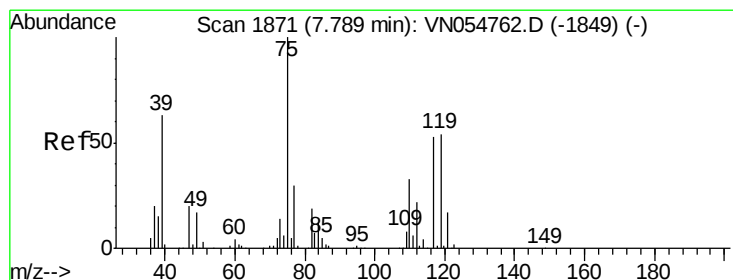
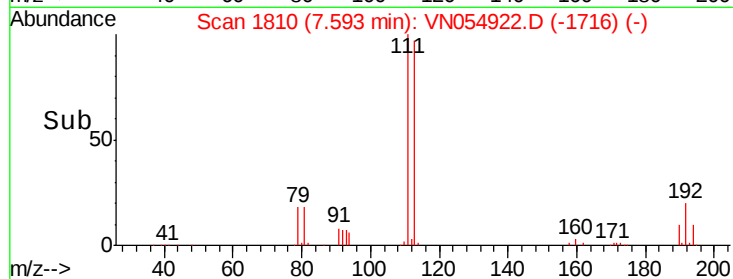
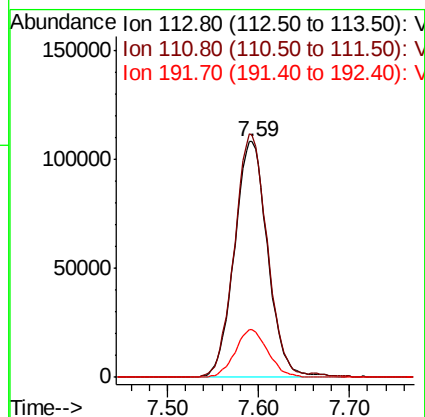
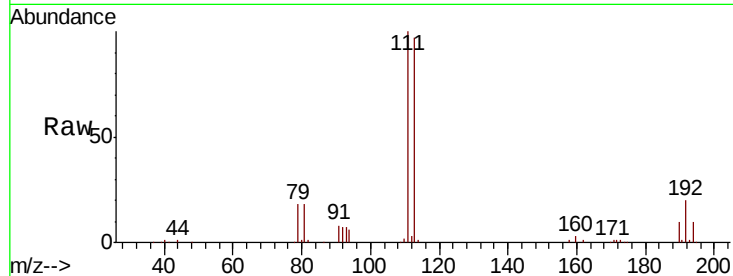




#35
 Dibromofluoromethane
 Concen: 48.041 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

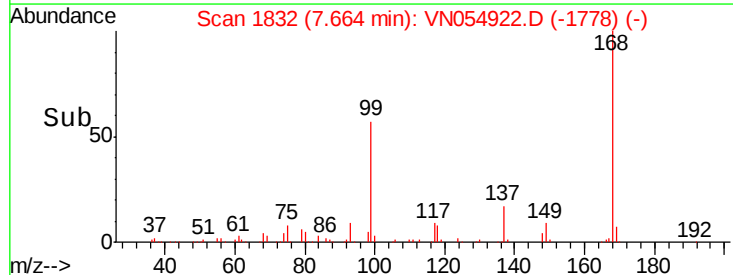
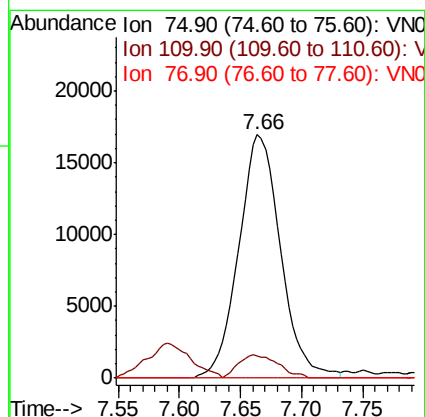
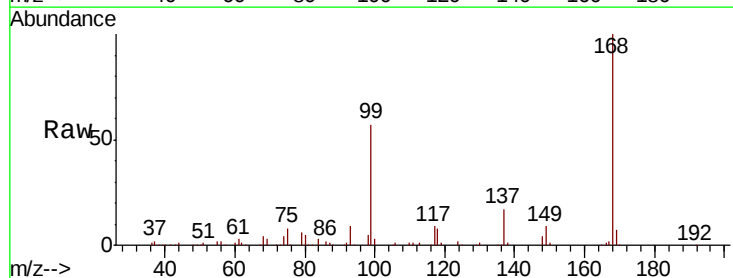
Instrument :
 MSVOA_N
 ClientSampled :

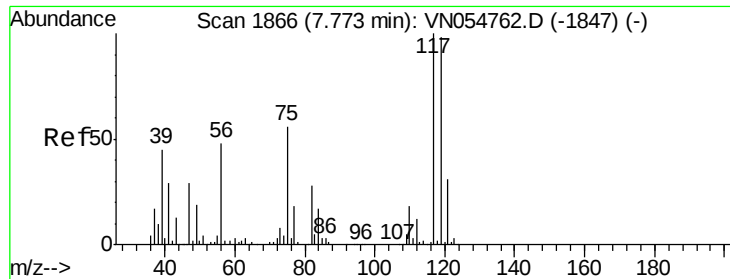
Tot Ion:113 Resp: 274323
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.2 123.4
 192 20.1 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 5.044 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

Tgt Ion: 75 Resp: 40258
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.090 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

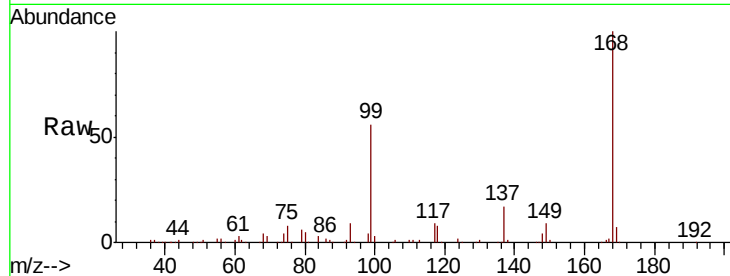
Tot Ion:117 Resp: 47205

Ion Ratio Lower Upper

117 100

119 4.7 76.3 114.5#

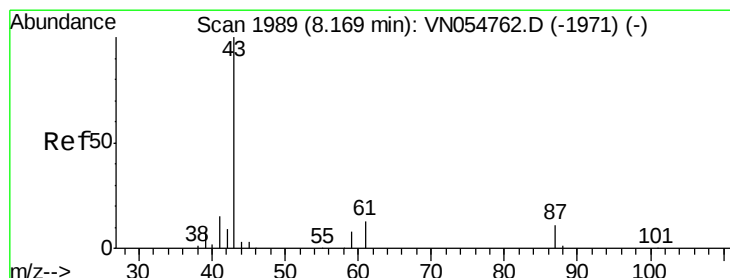
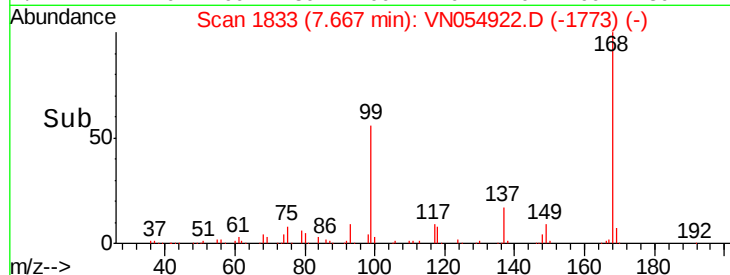
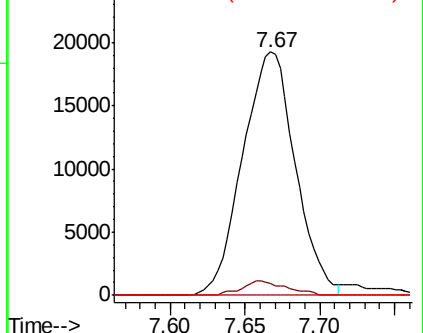
121 0.0 24.6 36.8#



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: 1.671 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

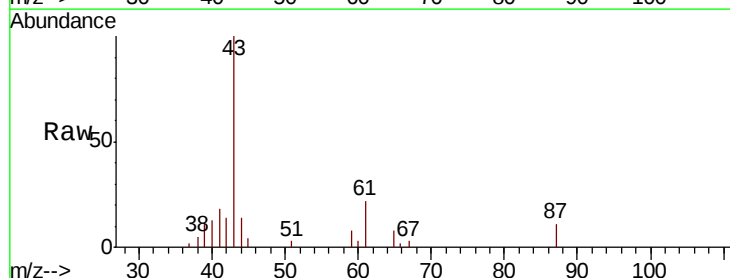
Tgt Ion: 43 Resp: 15893

Ion Ratio Lower Upper

43 100

61 18.0 15.8 23.8

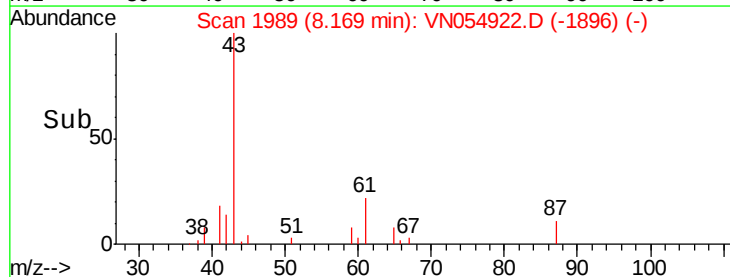
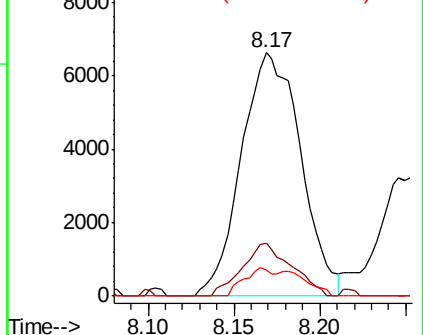
87 6.1 12.0 18.0#

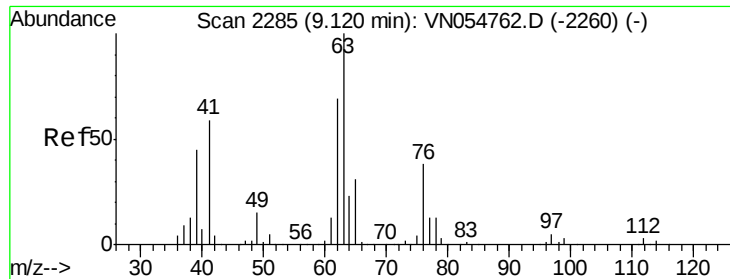


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

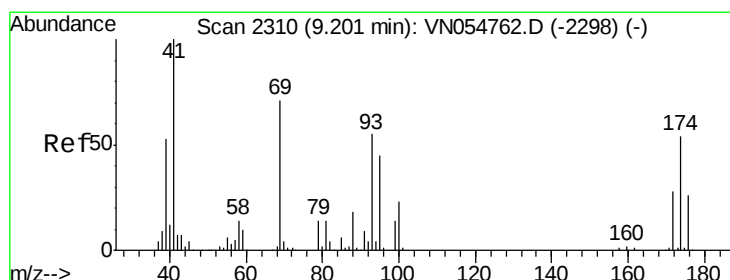
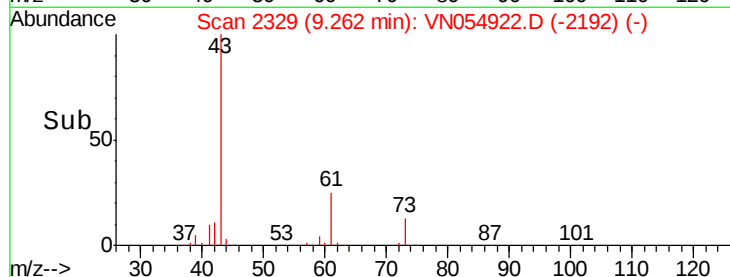
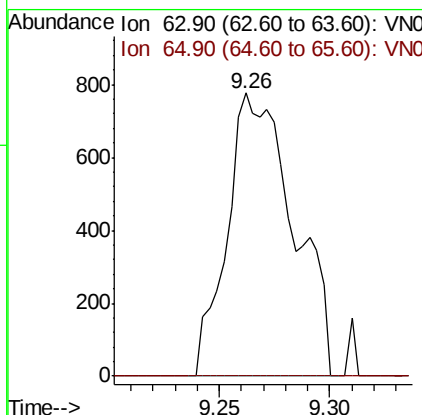
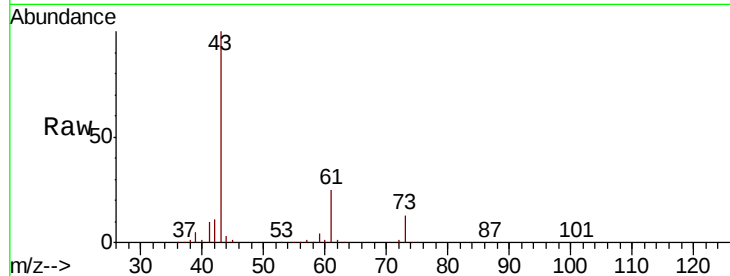




#45
 1,2-Dichloropropane
 Concen: 0.249 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

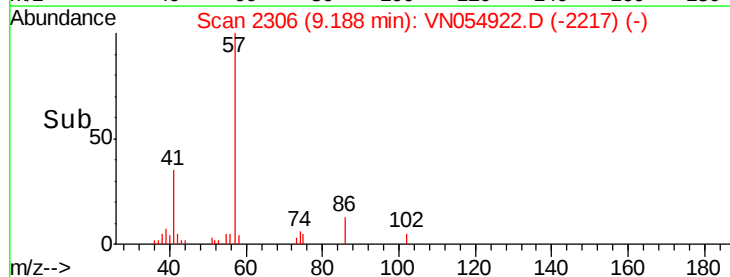
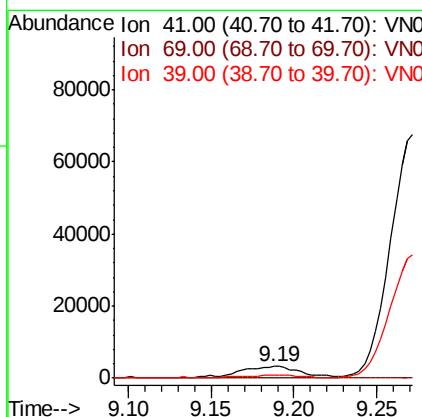
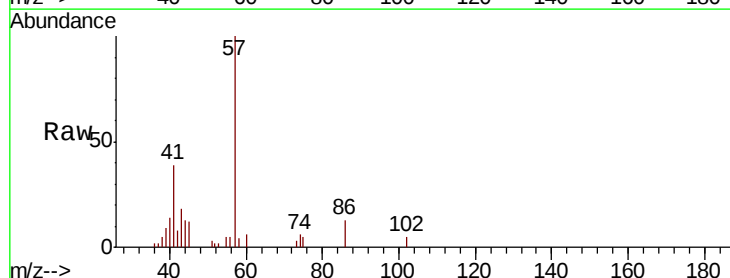
Instrument :
 MSVOA_N
 ClientSampled :

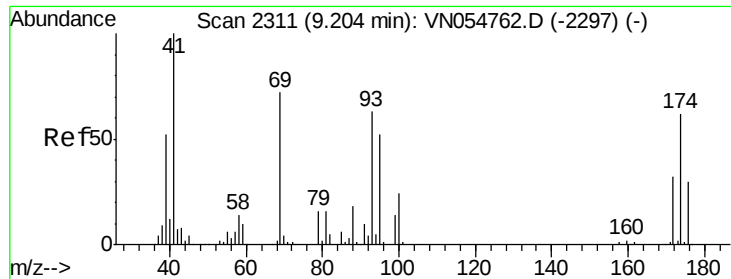
Tot Ion: 63 Resp: 1621
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.455 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

Tgt Ion: 41 Resp: 7500
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 26.8 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.014 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :
MSVOA_N
ClientSampled :

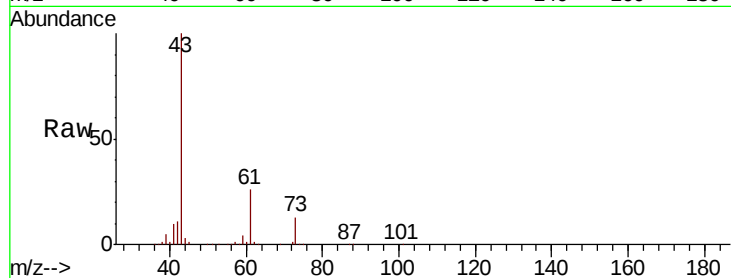
Tot Ion: 88 Resp: 103

Ion Ratio Lower Upper

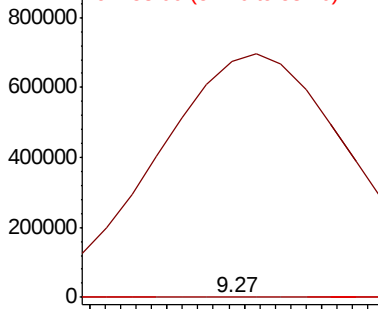
88 100

43 1321490.3 24.1 36.1#

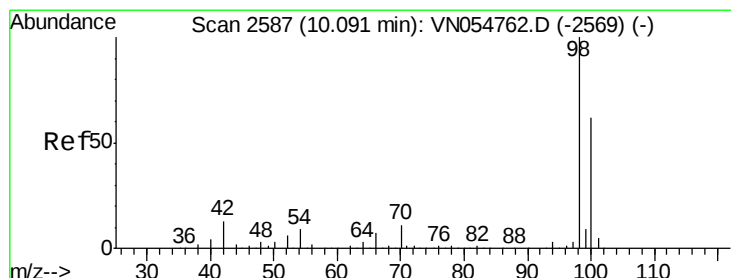
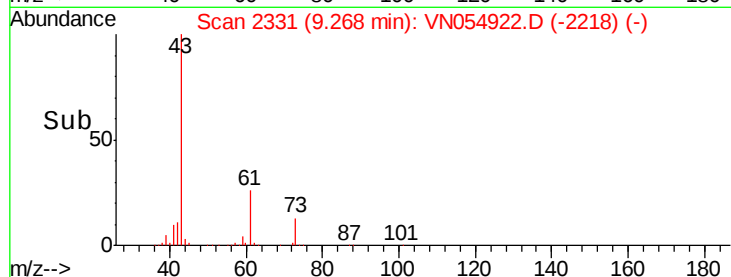
58 5799.0 50.8 76.2#



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



Time--> 9.25 9.26 9.27 9.28



#50

Toluene-d8

Concen: 48.559 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054922.D

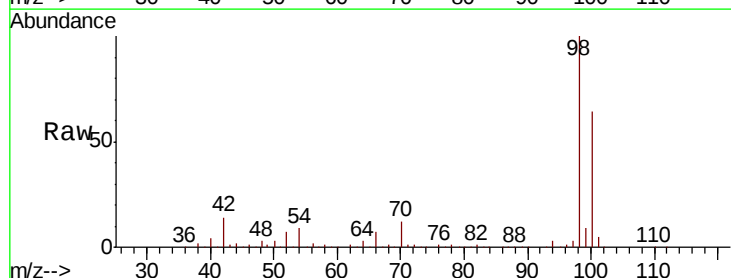
Acq: 3 Apr 2019 13:22

Tgt Ion: 98 Resp: 1030867

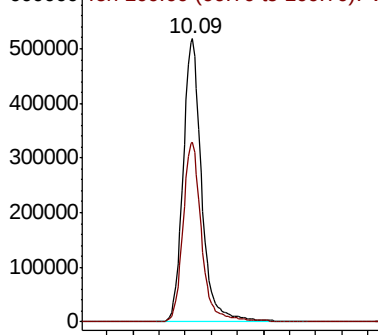
Ion Ratio Lower Upper

98 100

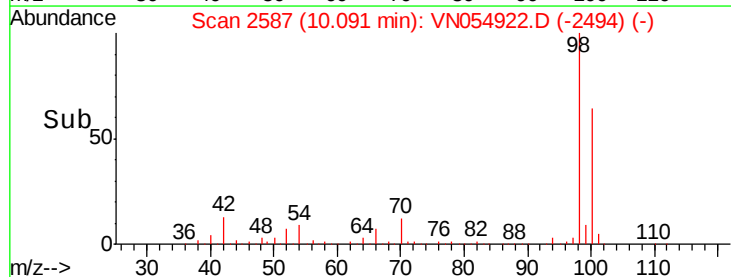
100 63.7 51.2 76.8

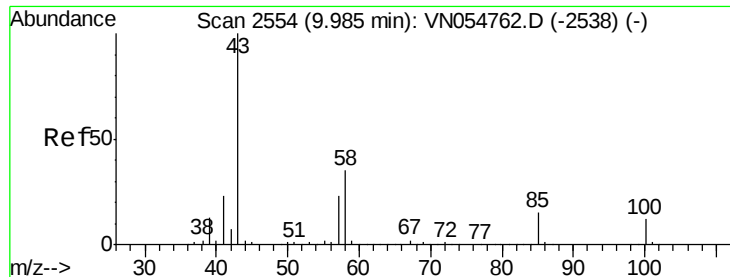


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0



Time--> 10.00 10.20

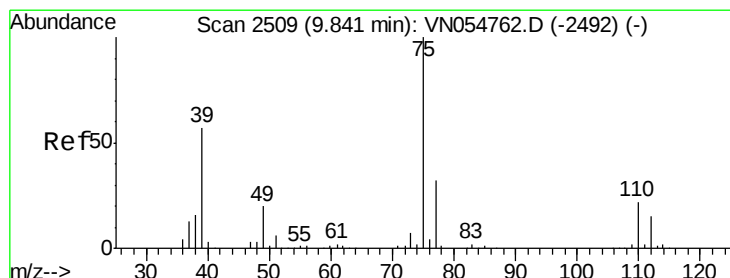
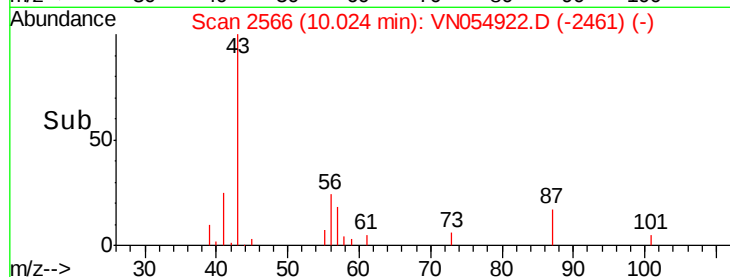
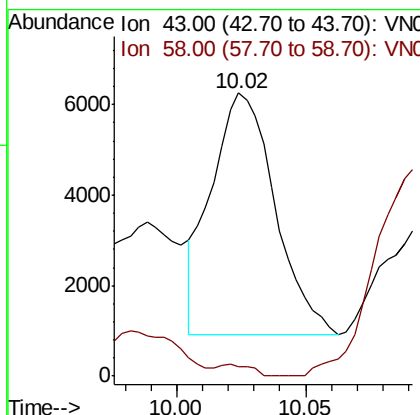
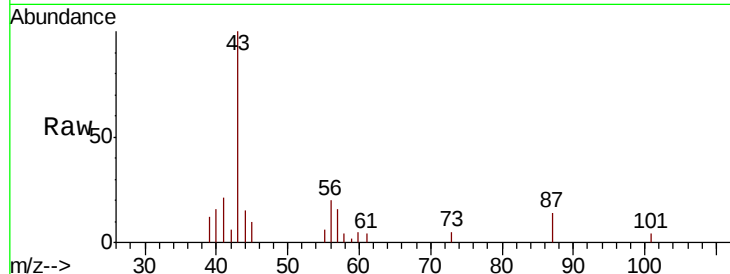




#51
 4-Methyl-2-Pentanone
 Concen: 1.725 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

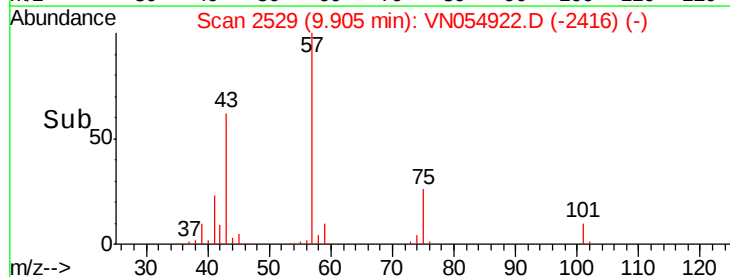
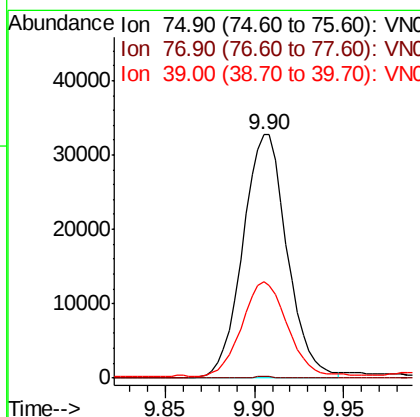
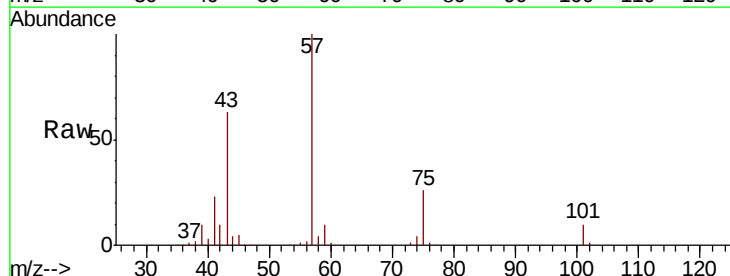
Instrument :
 MSVOA_N
 ClientSampled :

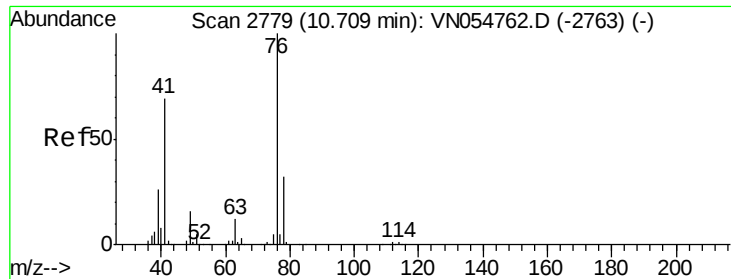
Tot Ion: 43 Resp: 9224
 Ion Ratio Lower Upper
 43 100
 58 0.0 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.644 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

Tgt Ion: 75 Resp: 56837
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 39.1 37.2 55.8

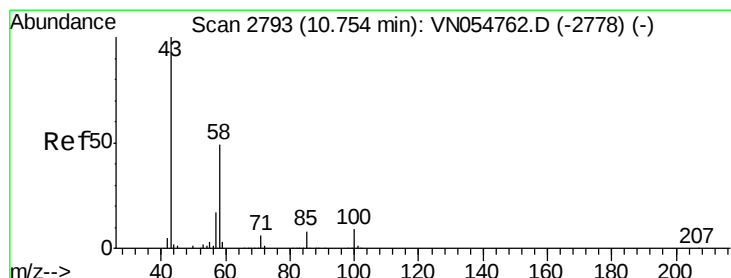
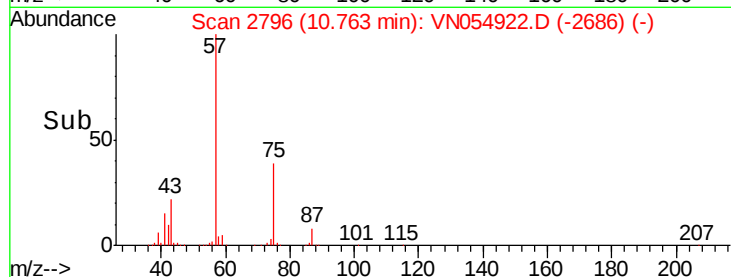
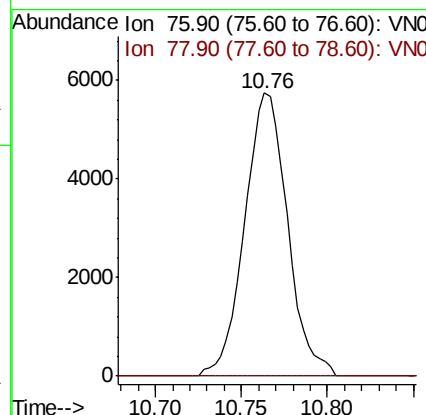
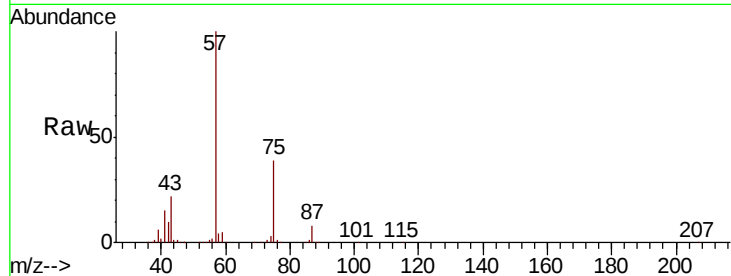




#57
 1,3-Dichloropropane
 Concen: 1.148 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

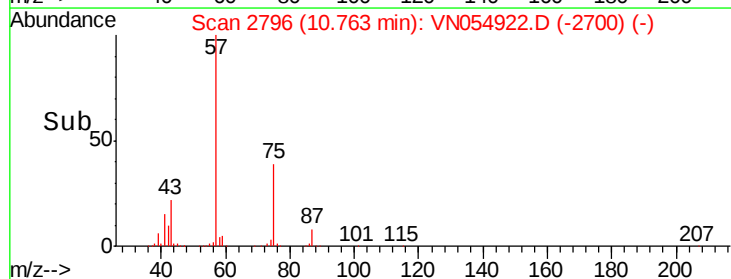
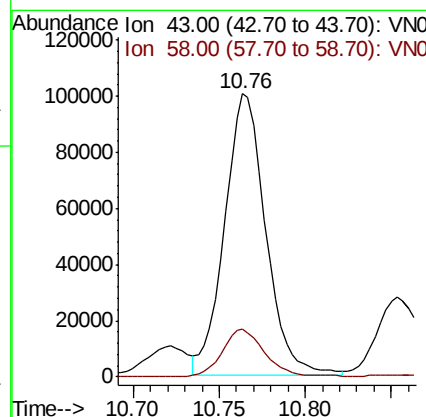
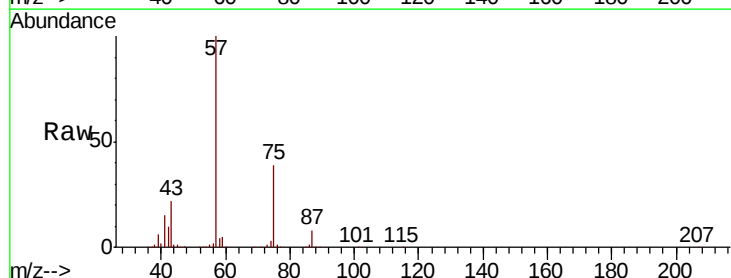
Instrument :
 MSVOA_N
 ClientSampleId :

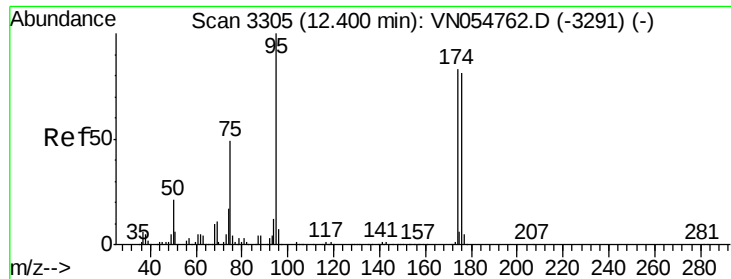
Tot Ion: 76 Resp: 9975
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 48.960 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN054922.D
 Acq: 3 Apr 2019 13:22

Tgt Ion: 43 Resp: 167572
 Ion Ratio Lower Upper
 43 100
 58 17.2 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 43.206 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

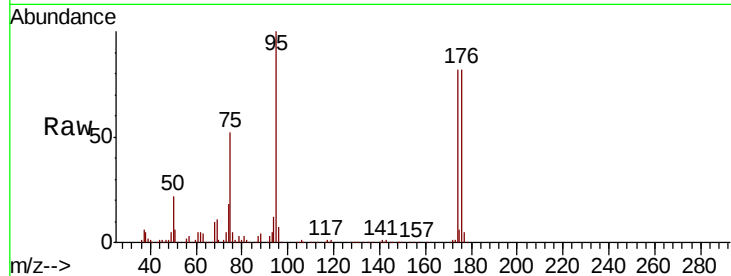
Tot Ion: 95 Resp: 305049

Ion Ratio Lower Upper

95 100

174 84.4 0.0 191.0

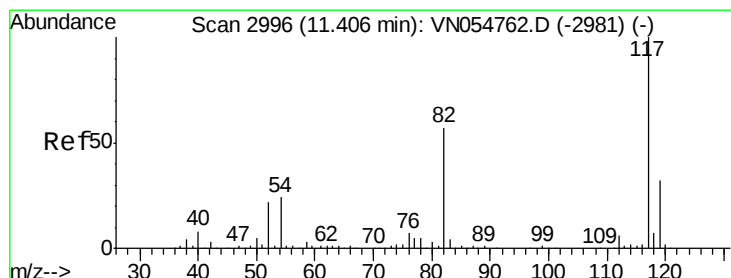
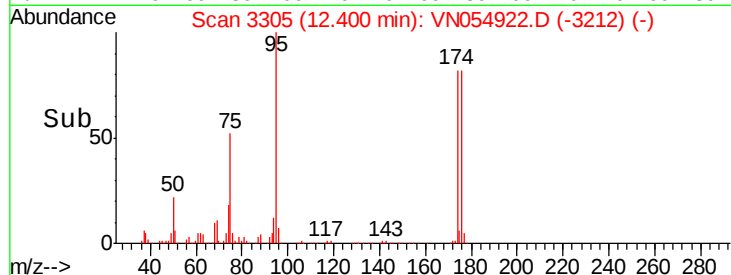
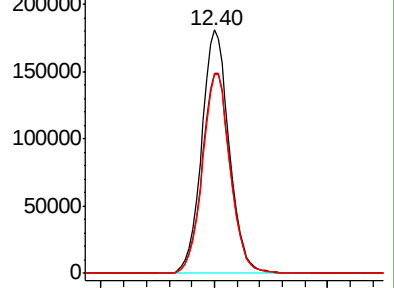
176 82.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054922.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054922.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054922.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

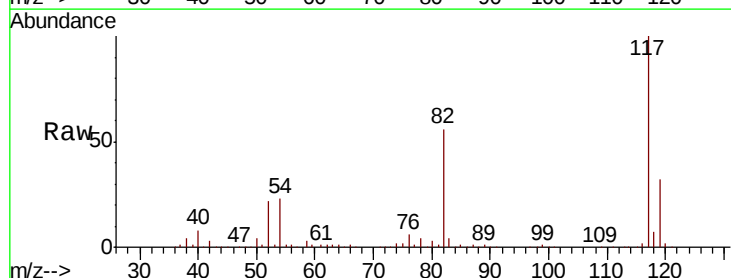
Tgt Ion: 117 Resp: 722714

Ion Ratio Lower Upper

117 100

82 55.8 40.0 60.0

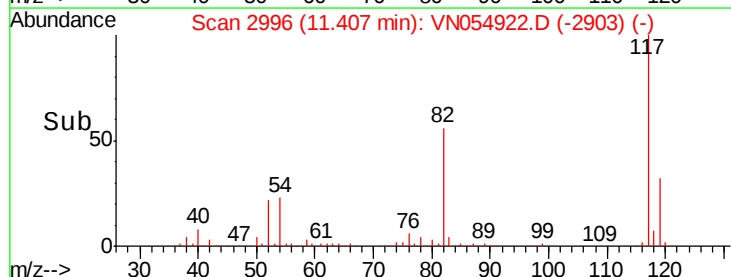
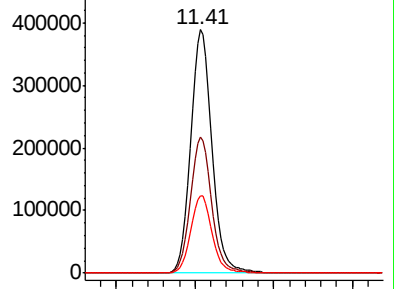
119 31.9 25.8 38.6

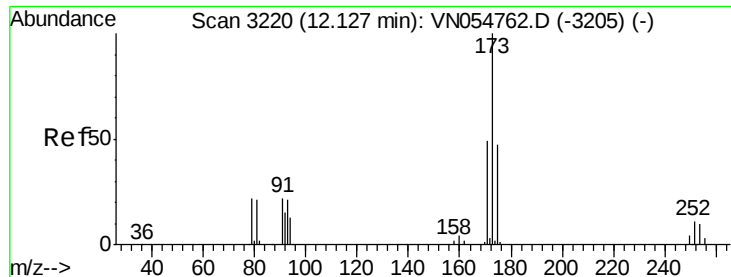


Abundance Ion 116.90 (116.60 to 117.60): VN054922.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054922.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054922.D (-2903) (-)





#71

Bromoform

Concen: 0.789 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

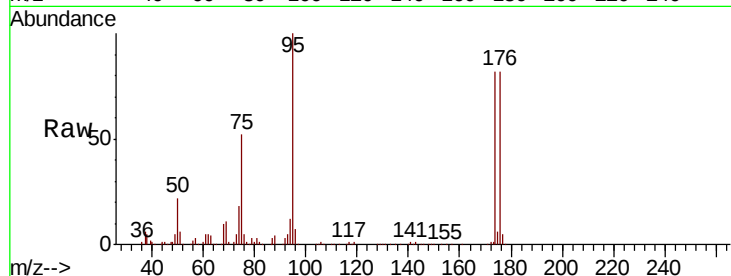
Tot Ion:173 Resp: 2447

Ion Ratio Lower Upper

173 100

175 668.5 24.4 73.2#

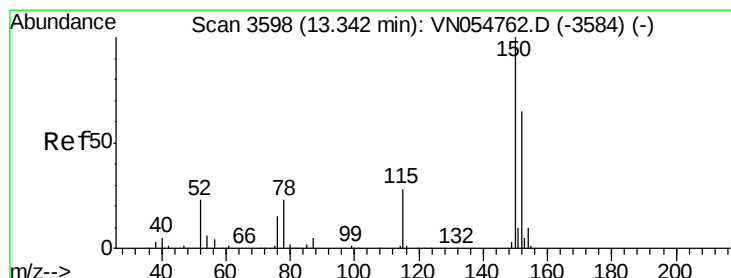
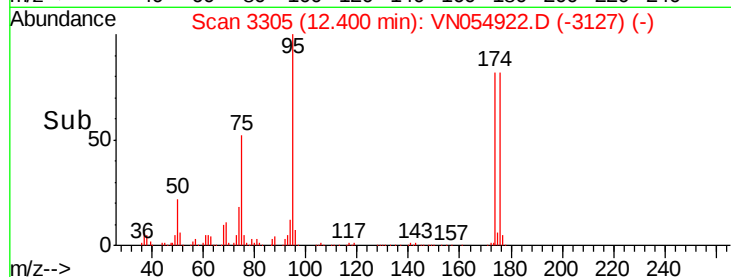
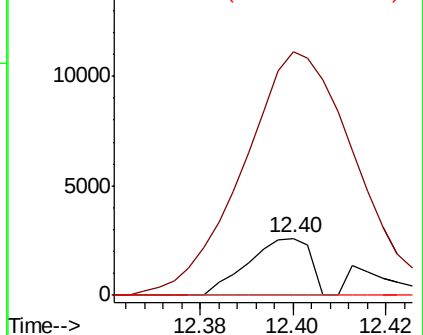
254 0.0 0.1 0.1#



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: VN054922.D

Acq: 3 Apr 2019 13:22

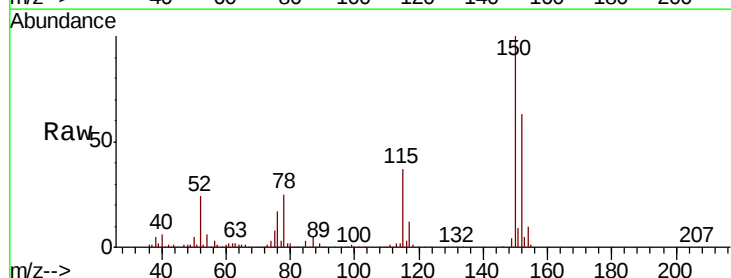
Tgt Ion:152 Resp: 247925

Ion Ratio Lower Upper

152 100

115 57.4 27.2 81.6

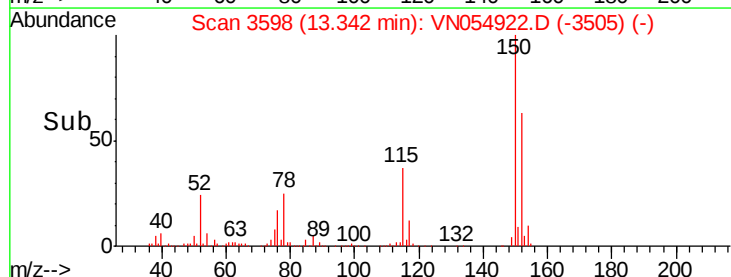
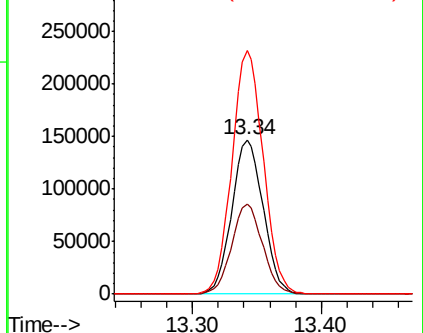
150 157.3 0.0 349.2

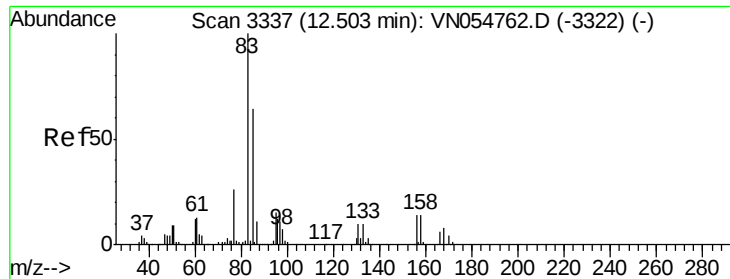


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3309

Delta R.T. -0.09 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

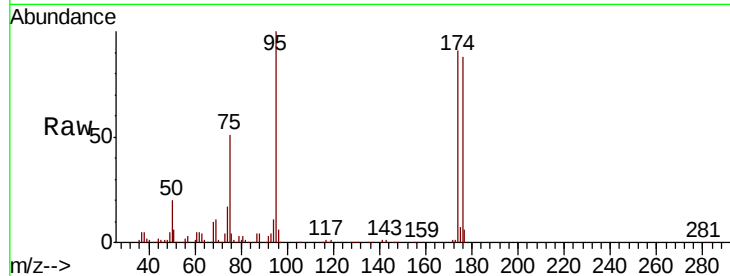
Tot Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

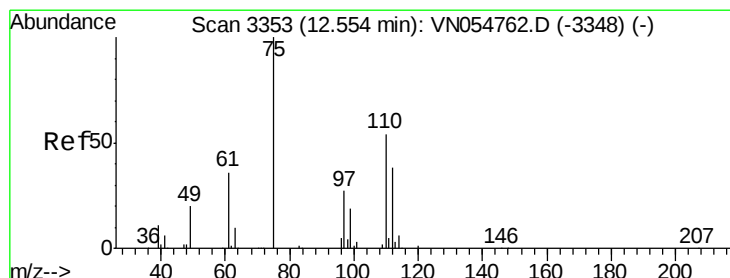
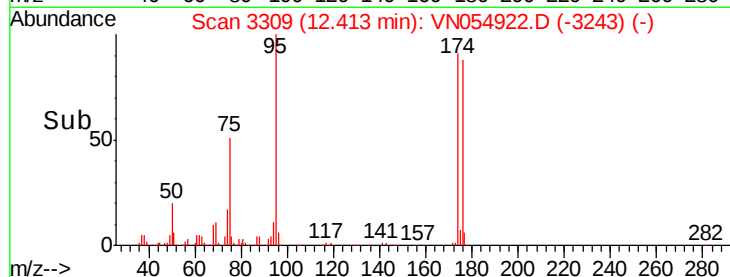
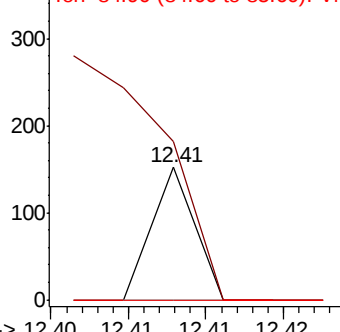
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.688 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054922.D

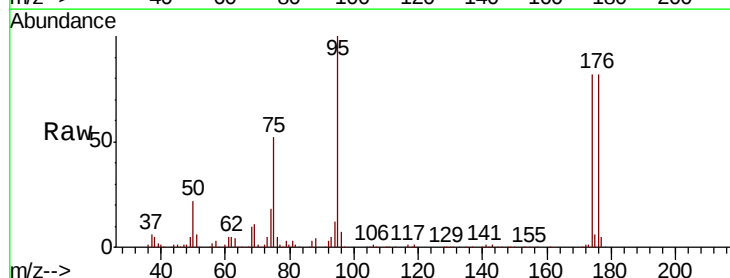
Acq: 3 Apr 2019 13:22

Tgt Ion: 75 Resp: 158016

Ion Ratio Lower Upper

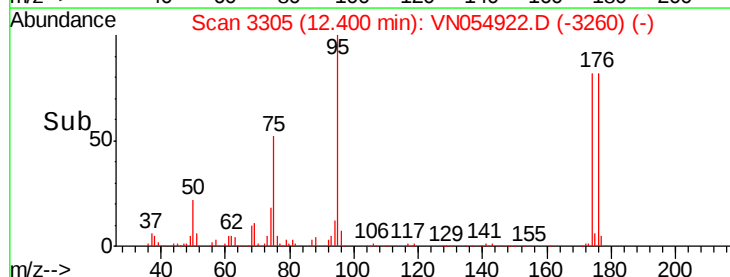
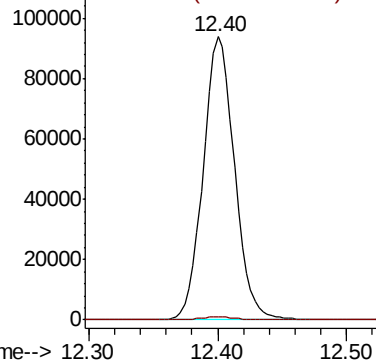
75 100

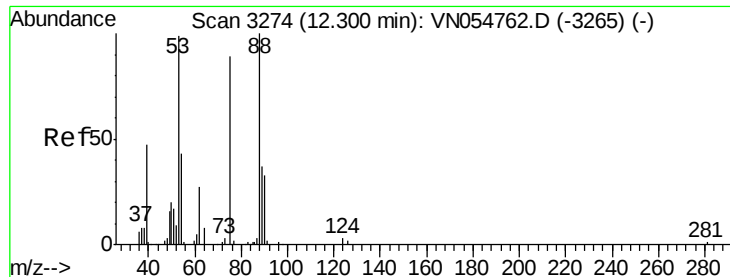
77 1.2 0.0 0.0#



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: 142.707 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

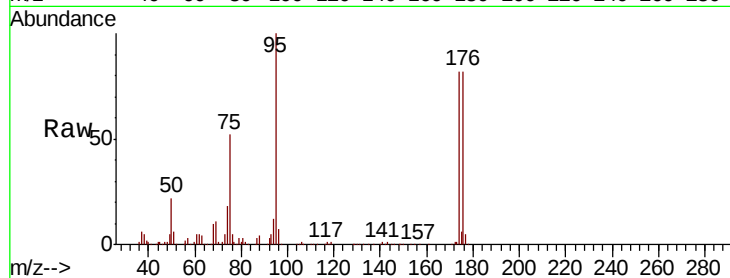
Tot Ion: 75 Resp: 158016

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

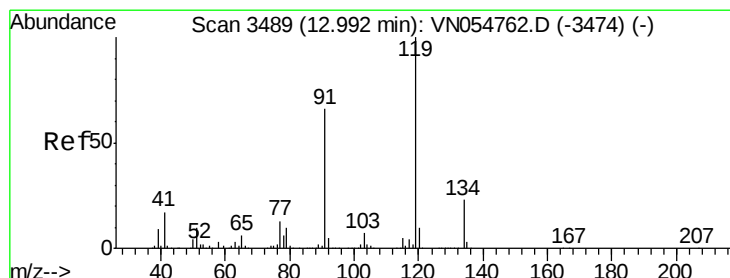
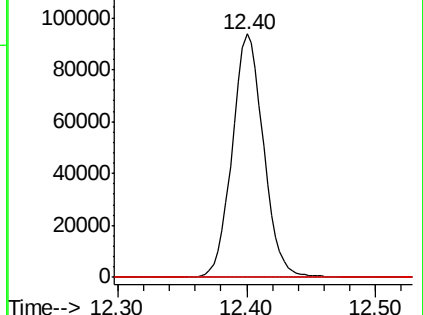
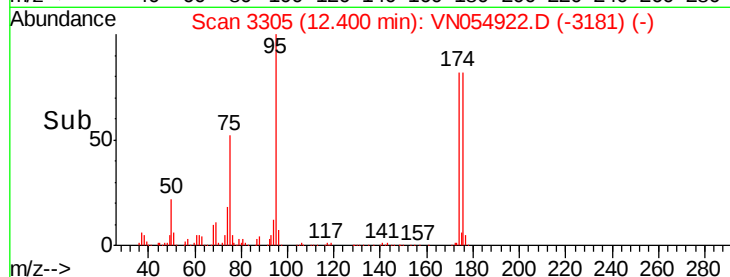
89 0.0 39.2 58.8#



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: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

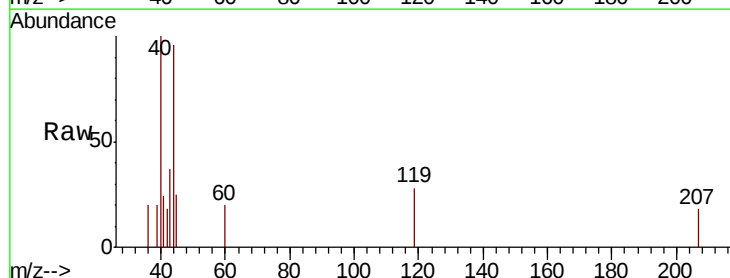
Tgt Ion: 119 Resp: 123

Ion Ratio Lower Upper

119 100

91 26.8 30.9 92.8#

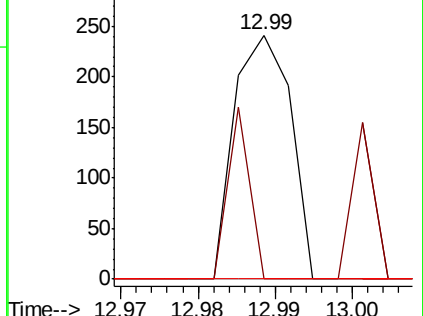
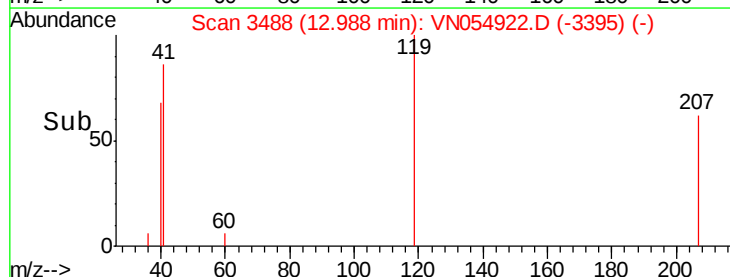
134 0.0 13.2 39.6#

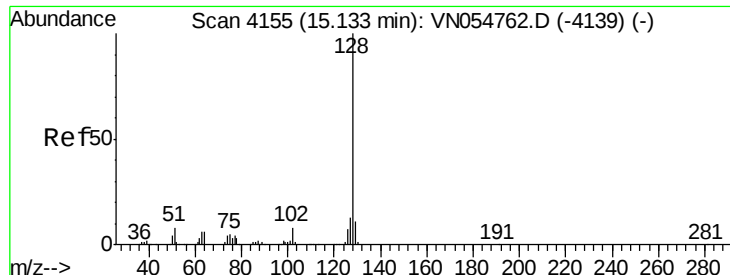


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 0.203 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

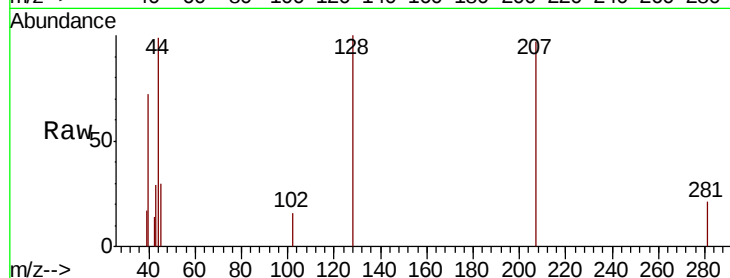
Lab File: VN054922.D

Acq: 3 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :



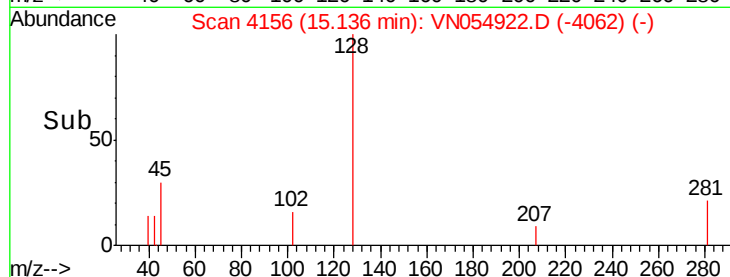
Tot Ion:128 Resp: 1816

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 7.5 8.7 13.1#



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

