

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055165.D
 Acq On : 20 Apr 2019 2:45
 Operator : JC/SP
 Sample : K2202-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-06-041819-A

Quant Time: Apr 20 04:30:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	544602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	858015	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	700122	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	217370	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	339372	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
35) Dibromofluoromethane	7.59	113	274358	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
50) Toluene-d8	10.09	98	1015470	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	287892	43.15	ug/l	0.00
Spiked Amount			Recovery	=	86.30%	

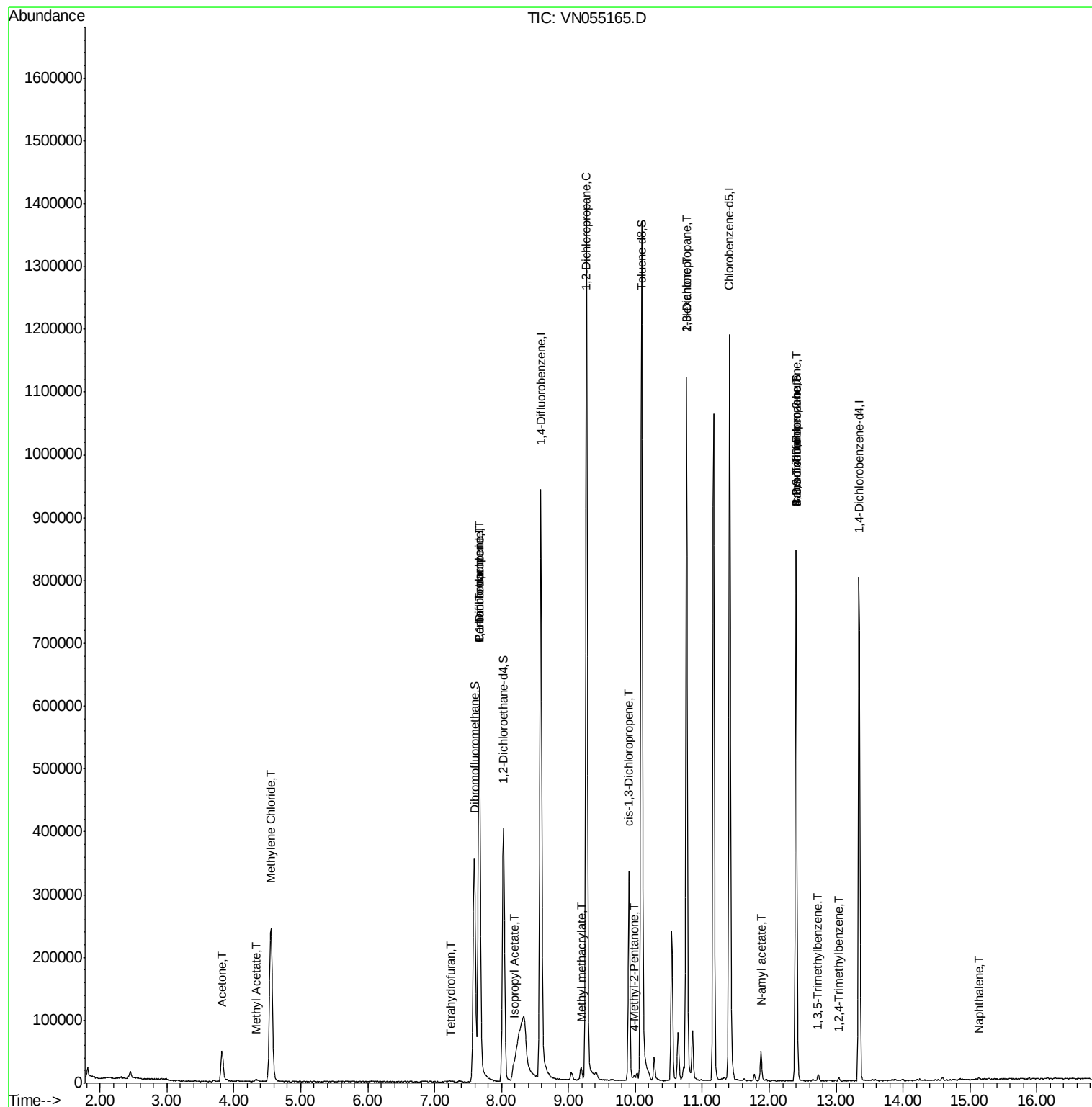
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	81533	41.496	ug/l	91
18) Methyl Acetate	4.33	43	6361	0.692	ug/l #	80
20) Methylene Chloride	4.55	84	173325	25.094	ug/l	97
29) Tetrahydrofuran	7.23	42	1269	0.660	ug/l #	45
31) Cyclohexane	7.67	56	11049	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	41062	5.077	ug/l #	49
38) Carbon Tetrachloride	7.67	117	50205	6.524	ug/l #	15
43) Isopropyl Acetate	8.18	43	18984	1.871	ug/l	96
45) 1,2-Dichloropropane	9.27	63	1975	0.291	ug/l #	44
48) Methyl methacrylate	9.18	41	7795	1.550	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	4061	0.693	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	55656	6.432	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	10658	1.164	ug/l #	43
59) 2-Hexanone	10.76	43	177918	48.324	ug/l #	53
71) Bromoform	12.40	173	1305	0.439	ug/l #	29
74) N-amyl acetate	11.88	43	16266	2.996	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	143459	36.701	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4990	0.321	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	143459	146.763	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	3236	0.219	ug/l	96
95) Naphthalene	15.13	128	2297	3.356	ug/l #	87

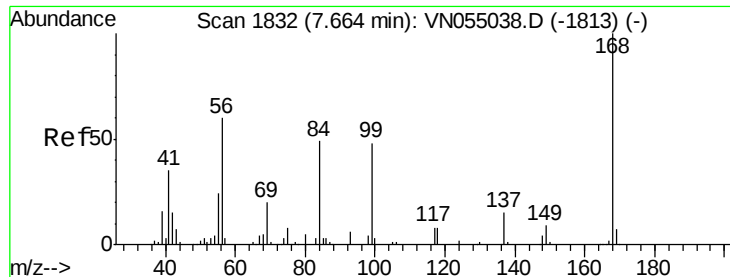
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041919\
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Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 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: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

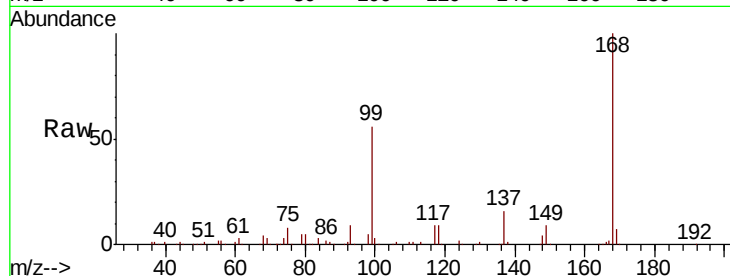
SA-06-041819-A

Tot Ion:168 Resp: 544602

Ion Ratio Lower Upper

168 100

99 55.9 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.67

250000

200000

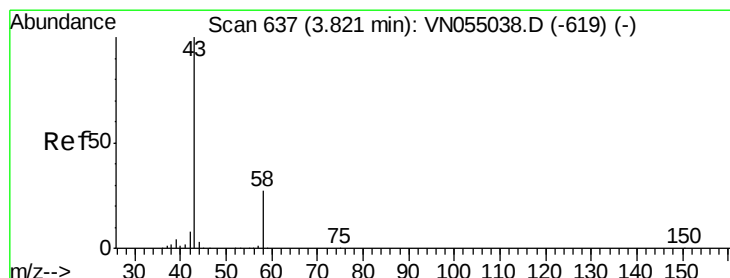
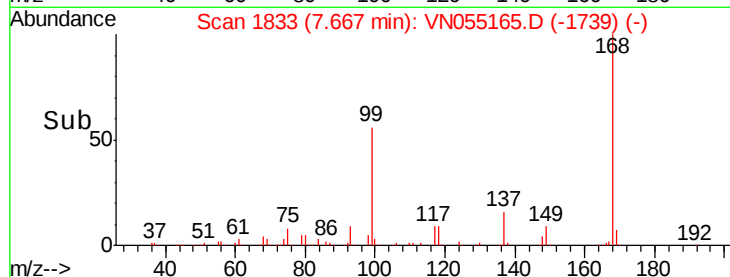
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 41.496 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055165.D

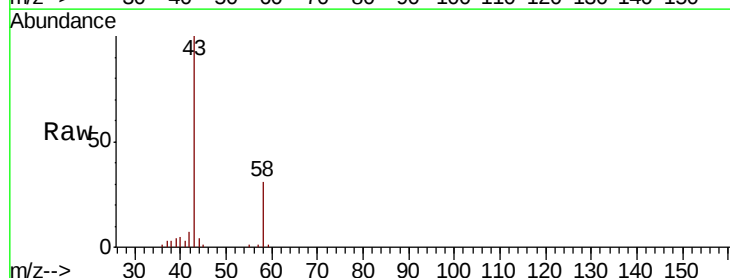
Acq: 20 Apr 2019 2:45

Tgt Ion: 43 Resp: 81533

Ion Ratio Lower Upper

43 100

58 30.7 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-619) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-619) (-)

3.82

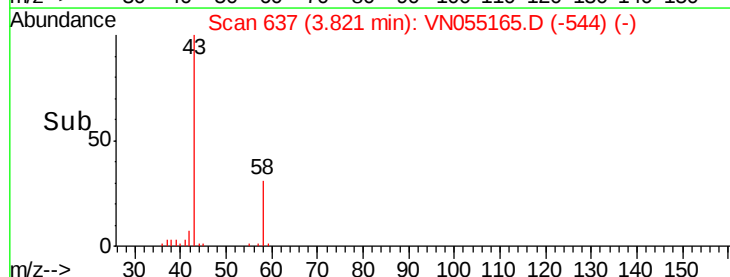
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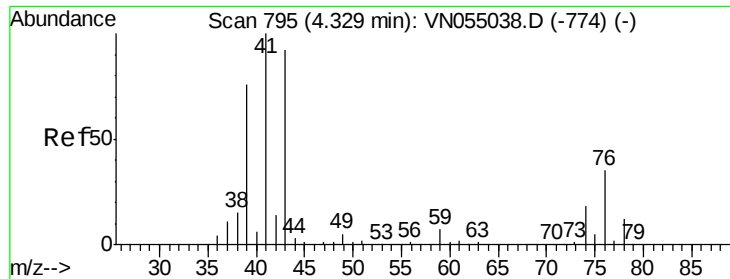
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Time-->

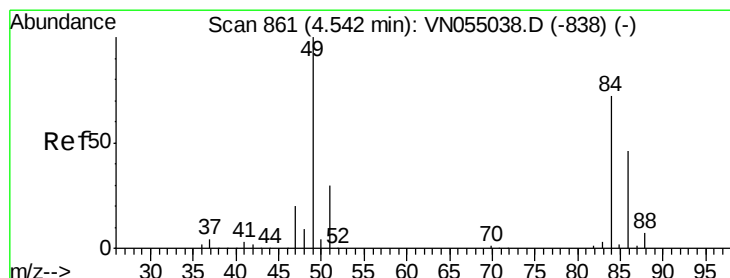
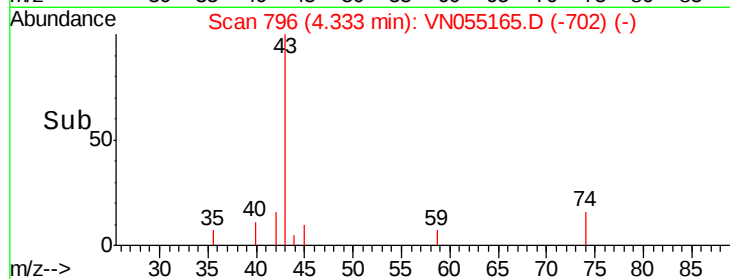
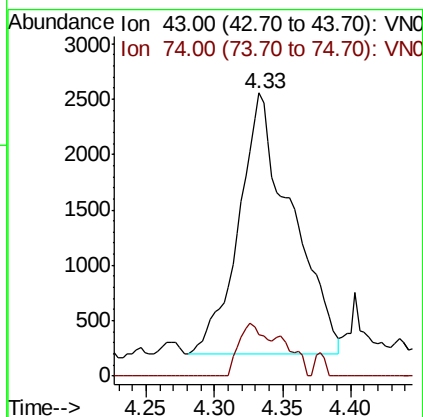
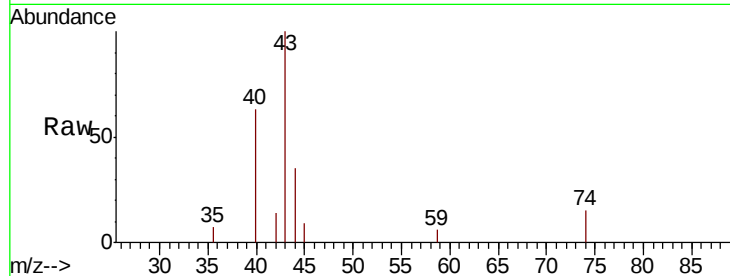




#18
Methyl Acetate
Concen: 0.692 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

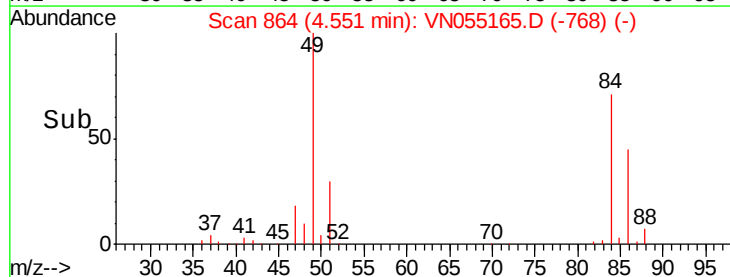
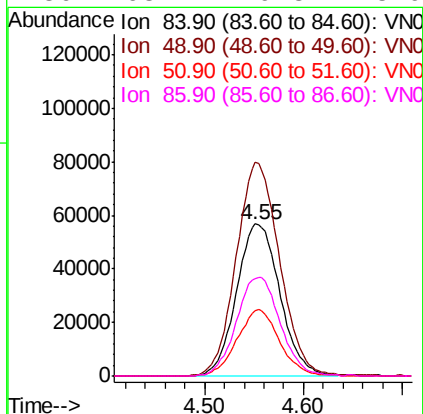
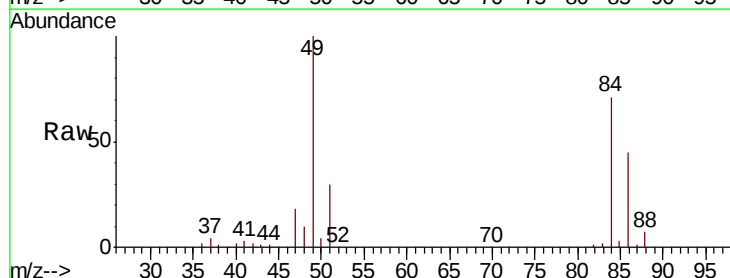
Instrument :
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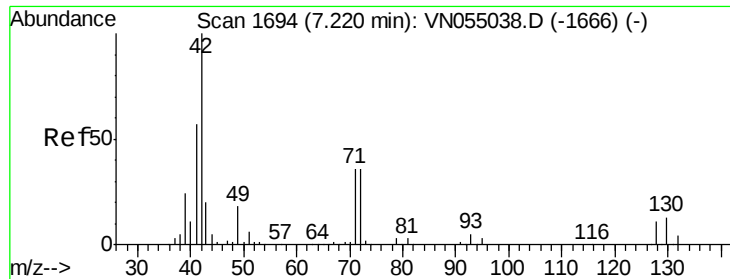
Tot Ion: 43 Resp: 6361
Ion Ratio Lower Upper
43 100
74 10.7 16.1 24.1#



#20
Methylene Chloride
Concen: 25.094 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Tgt Ion: 84 Resp: 173325
Ion Ratio Lower Upper
84 100
49 140.5 109.4 164.2
51 42.4 32.2 48.4
86 63.7 49.3 73.9

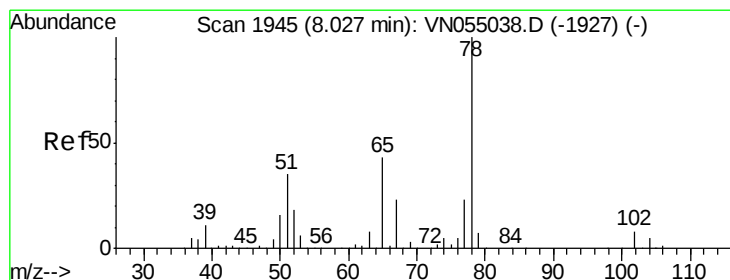
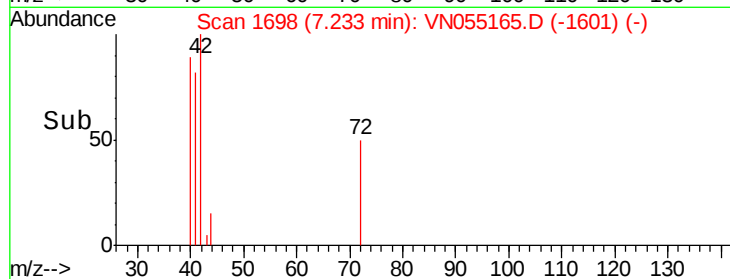
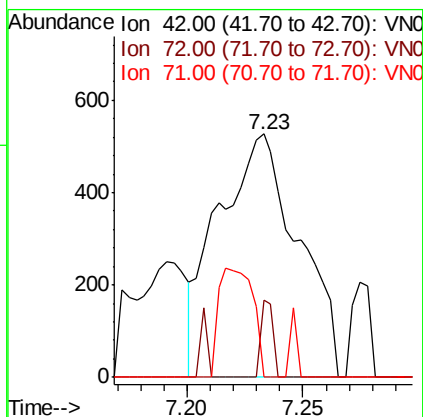
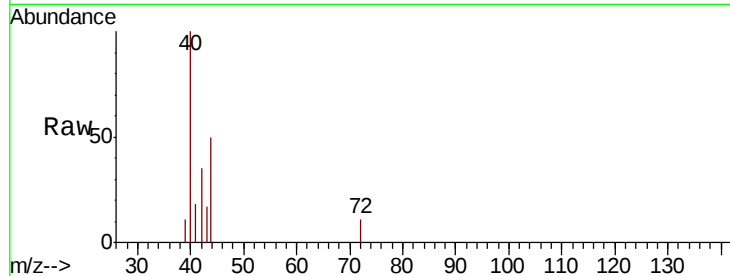




#29
Tetrahydrofuran
Concen: 0.660 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

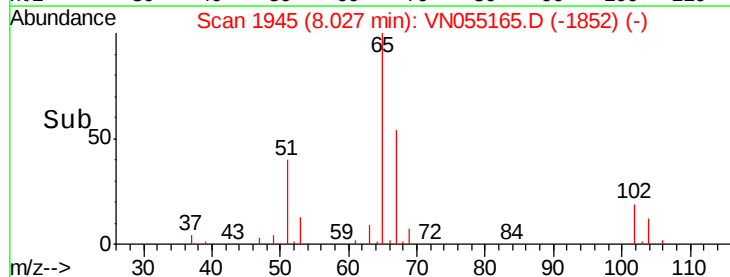
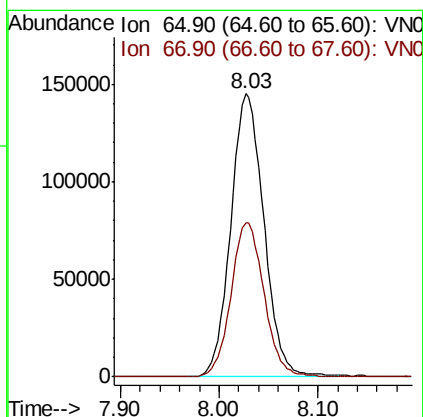
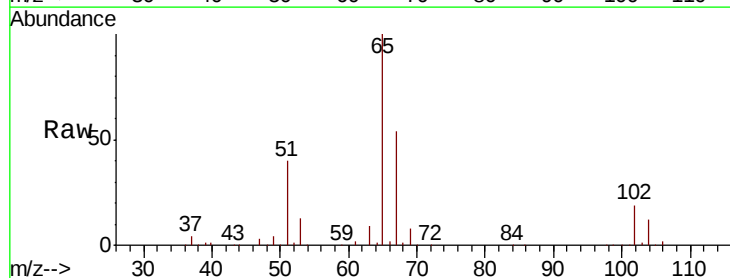
Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-A

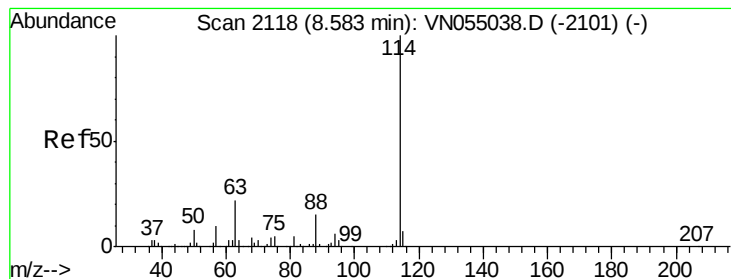
Tot Ion: 42 Resp: 1269
Ion Ratio Lower Upper
42 100
72 5.0 29.4 44.0#
71 2.3 27.8 41.6#



#33
1,2-Dichloroethane-d4
Concen: 46.880 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Tgt Ion: 65 Resp: 339372
Ion Ratio Lower Upper
65 100
67 54.3 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-A

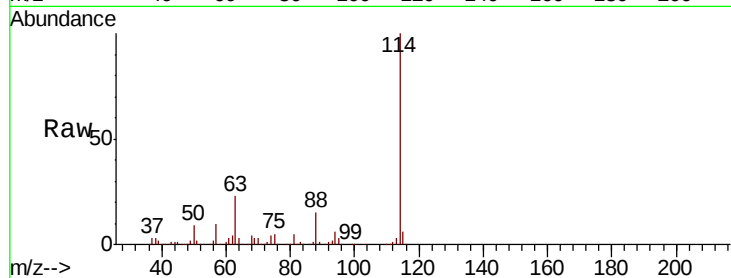
Tot Ion:114 Resp: 858015

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

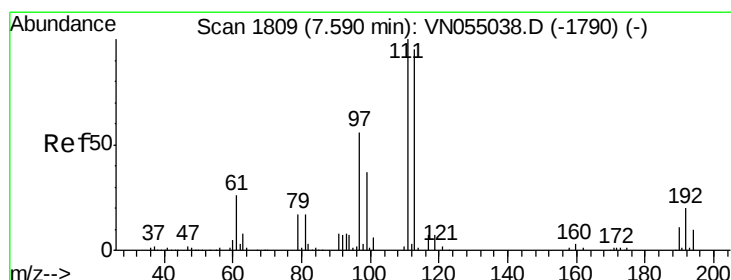
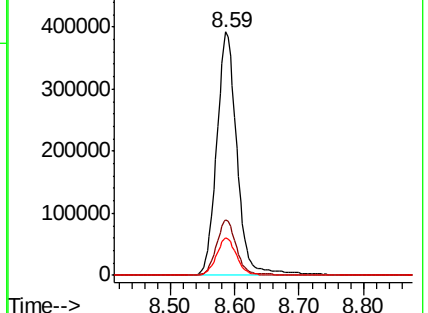
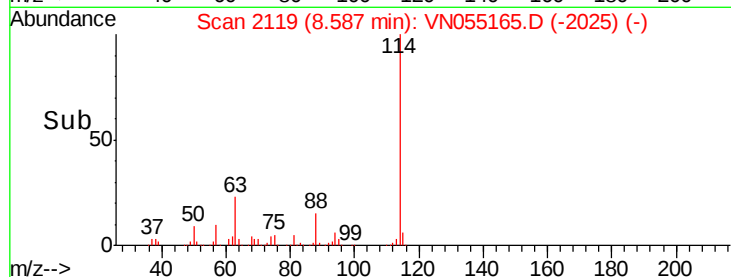
88 15.4 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.846 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

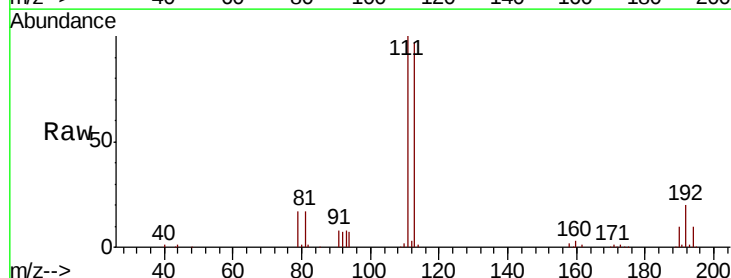
Tgt Ion:113 Resp: 274358

Ion Ratio Lower Upper

113 100

111 102.1 82.1 123.1

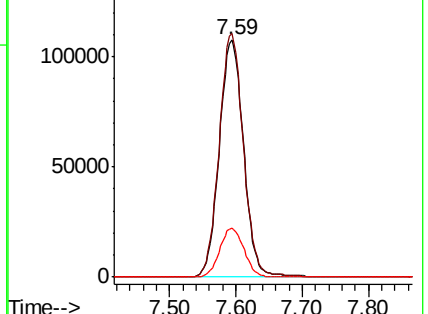
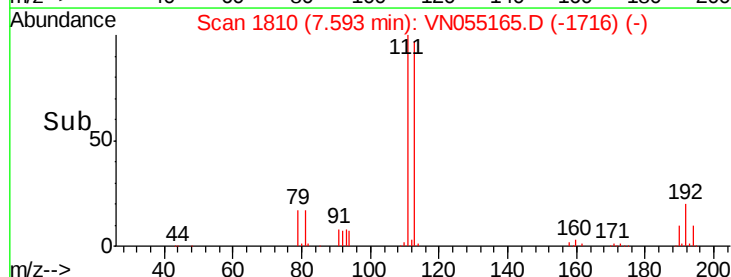
192 20.8 16.5 24.7

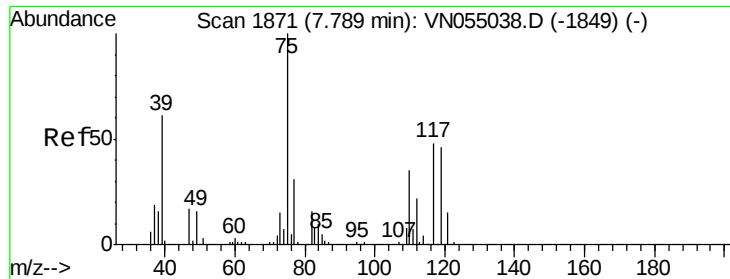


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

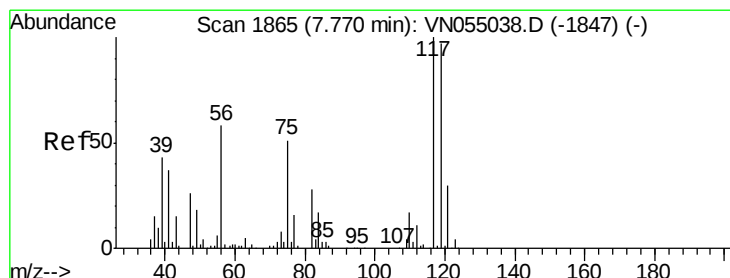
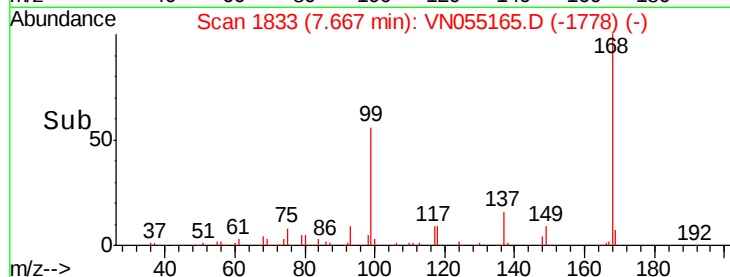
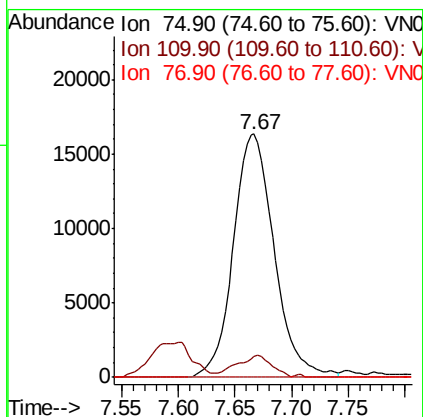
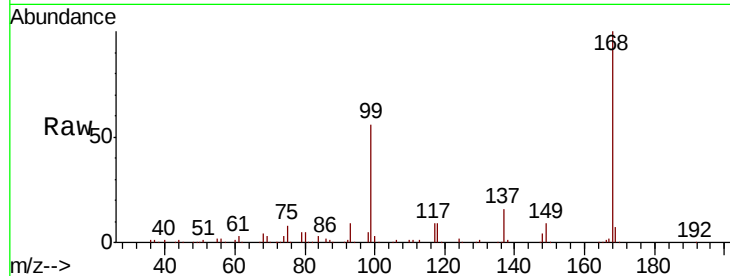




#36
 1,1-Dichloropropene
 Concen: 5.077 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055165.D
 Acq: 20 Apr 2019 2:45

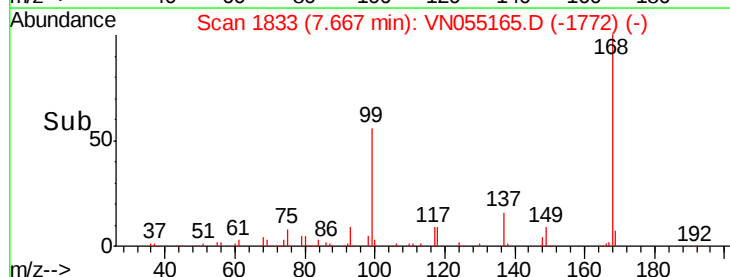
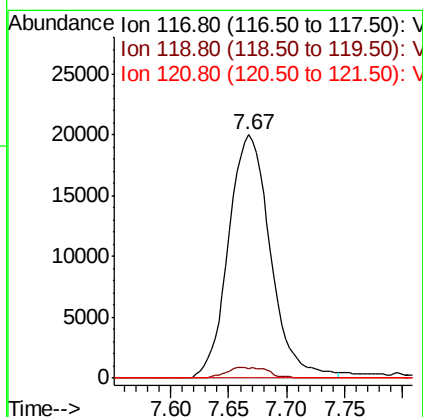
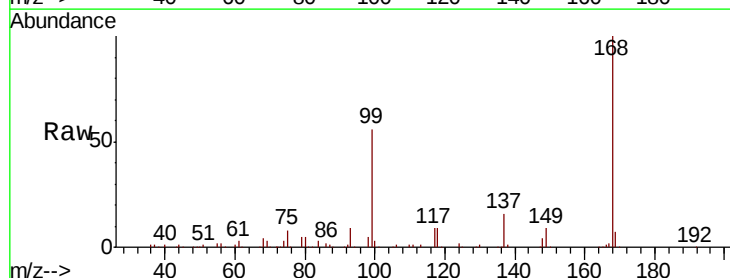
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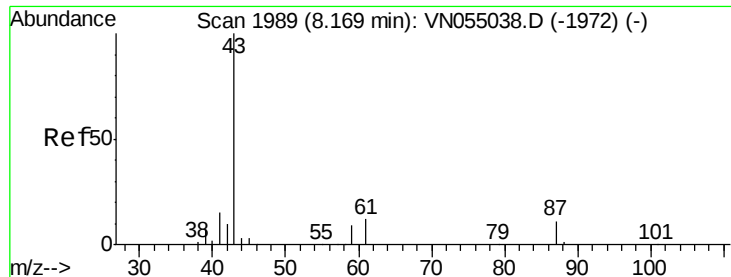
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.5	52.5#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.524 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN055165.D
 Acq: 20 Apr 2019 2:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.3	114.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 1.871 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-A

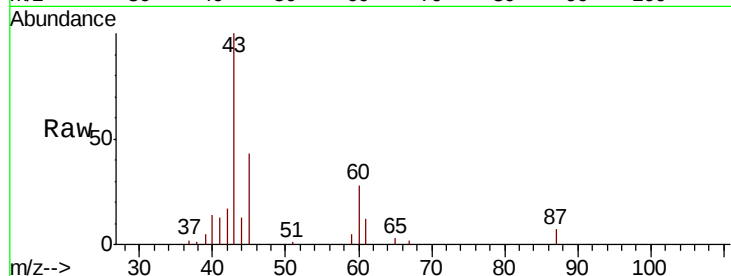
Tot Ion: 43 Resp: 18984

Ion Ratio Lower Upper

43 100

61 19.3 14.3 21.5

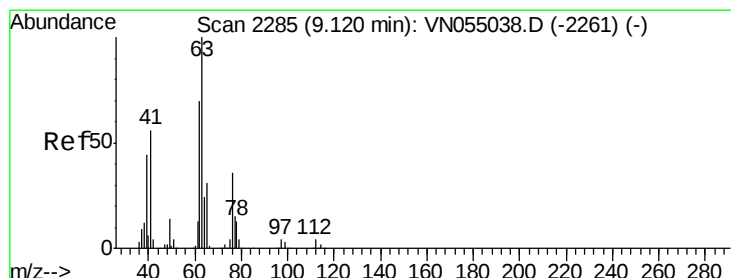
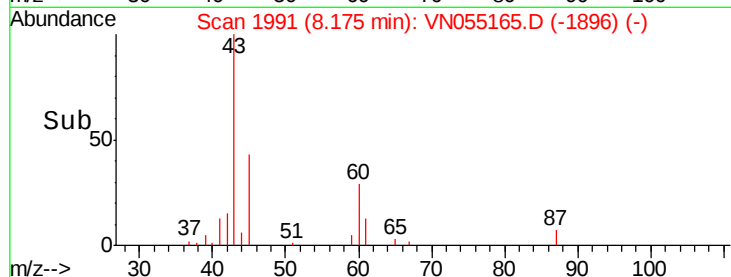
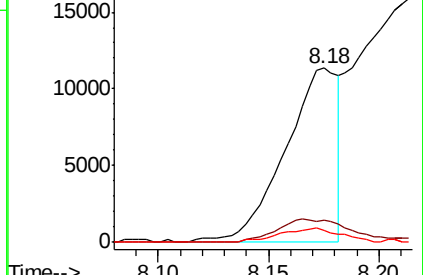
87 9.3 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN055165.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN055165.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN055165.D (-1896) (-)



#45

1,2-Dichloropropane

Concen: 0.291 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN055165.D

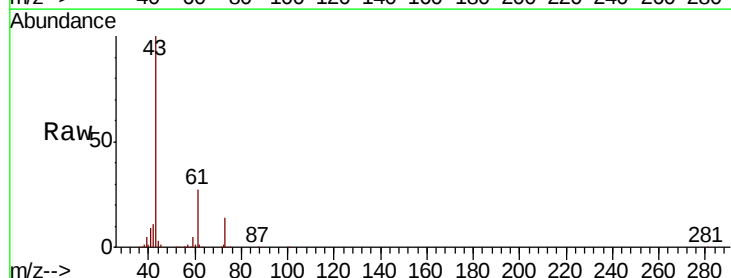
Acq: 20 Apr 2019 2:45

Tgt Ion: 63 Resp: 1975

Ion Ratio Lower Upper

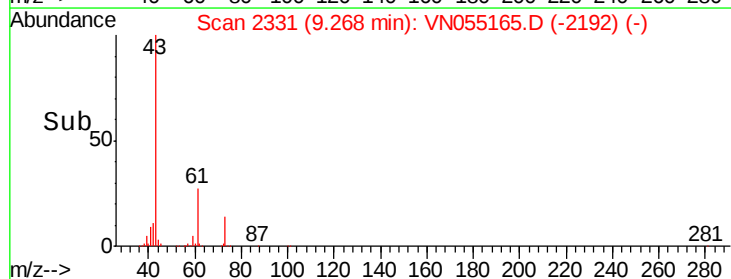
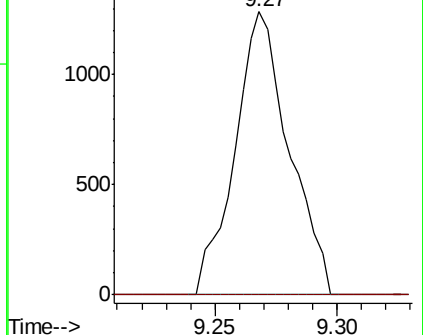
63 100

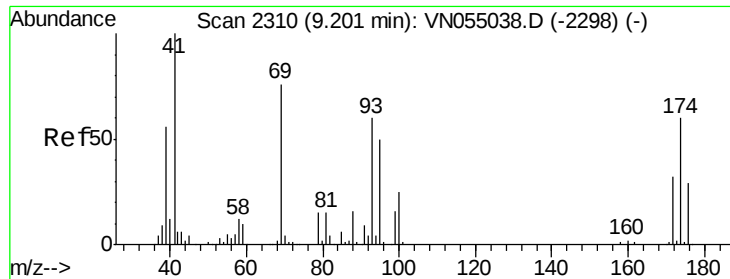
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN055165.D (-2192) (-)

Ion 64.90 (64.60 to 65.60): VN055165.D (-2192) (-)

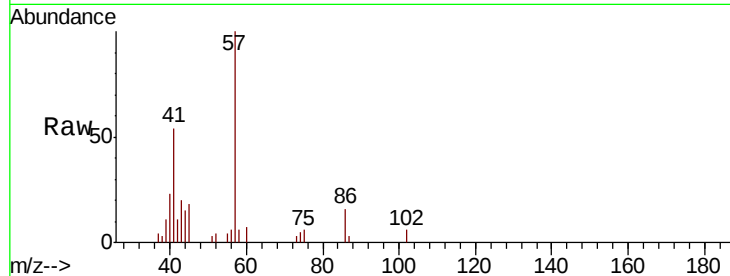




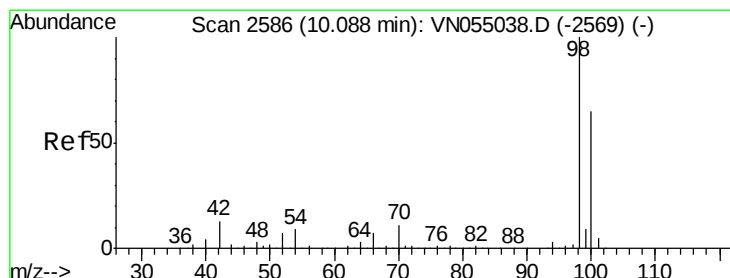
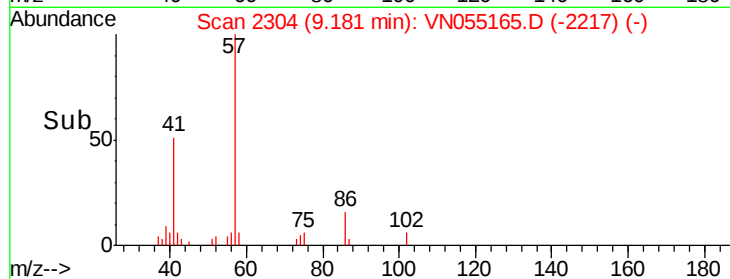
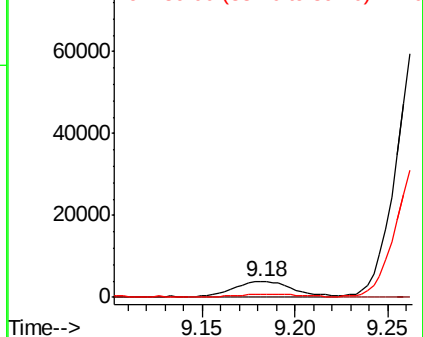
#48
Methvl methacrylate
Concen: 1.550 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-A

Tot Ion: 41 Resp: 7795
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#

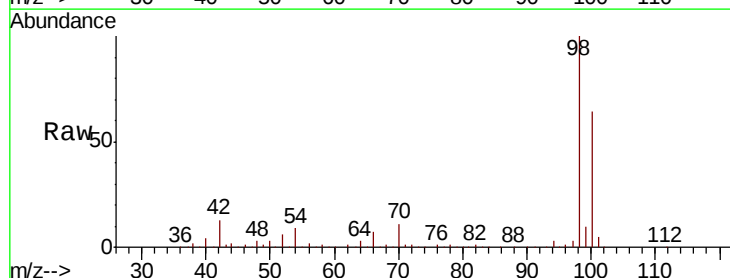


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

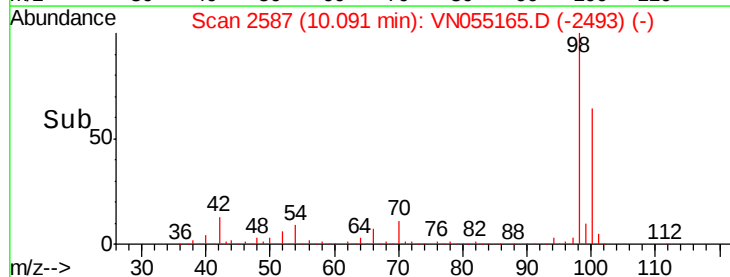
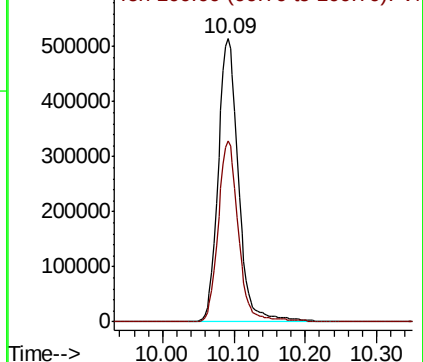


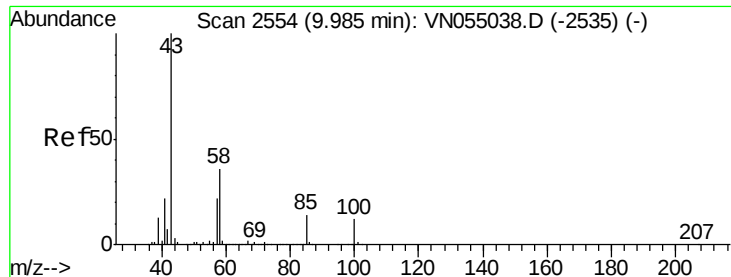
#50
Toluene-d8
Concen: 49.479 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Tgt Ion: 98 Resp: 1015470
Ion Ratio Lower Upper
98 100
100 63.6 51.1 76.7



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





#51

4-Methyl-2-Pentanone

Concen: 0.693 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

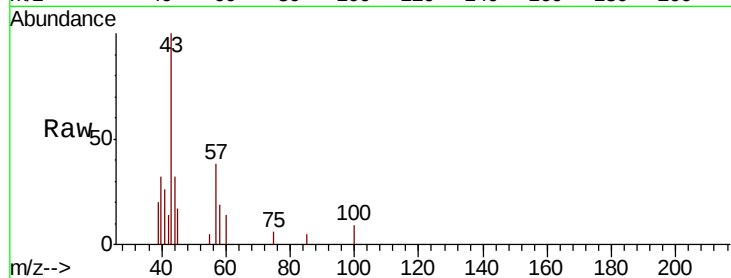
SA-06-041819-A

Tot Ion: 43 Resp: 4061

Ion Ratio Lower Upper

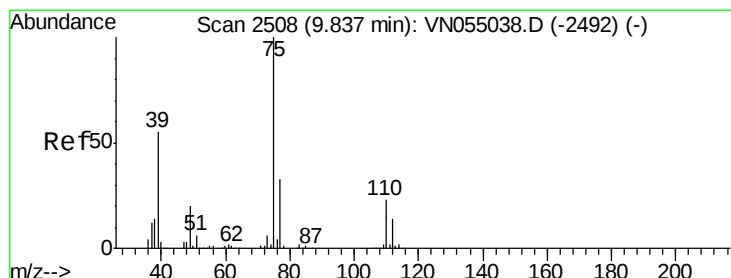
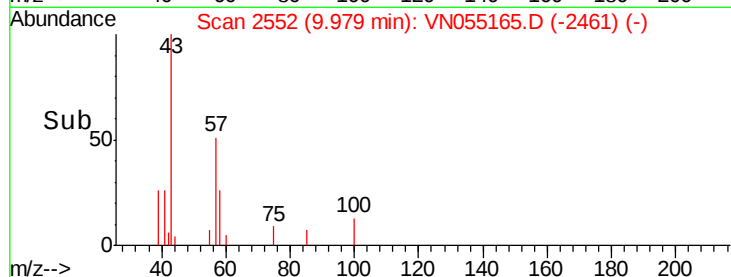
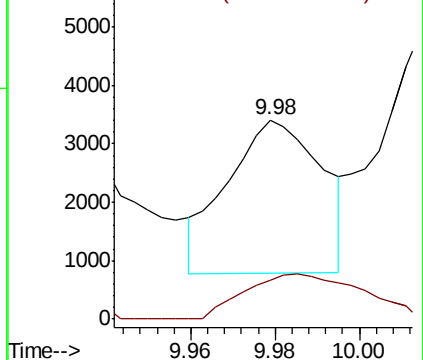
43 100

58 36.8 29.0 43.4



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: 6.432 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

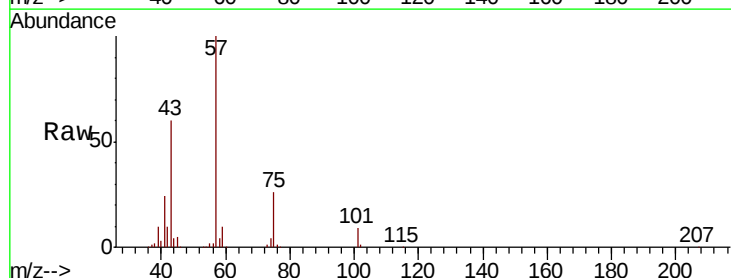
Tgt Ion: 75 Resp: 55656

Ion Ratio Lower Upper

75 100

77 0.8 25.8 38.6#

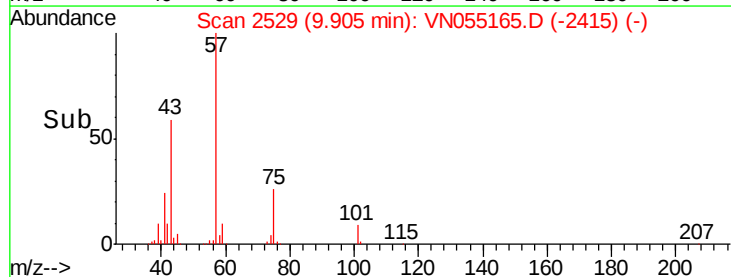
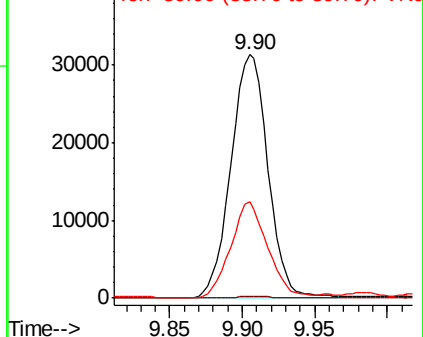
39 39.6 43.8 65.8#

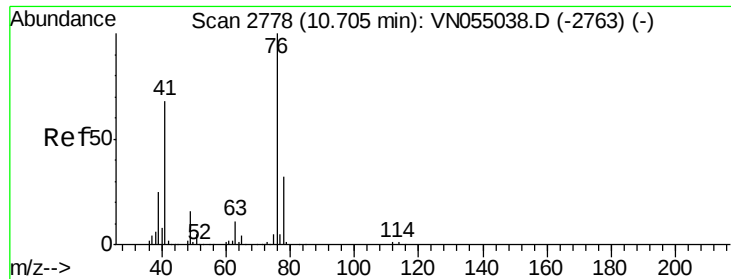


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.164 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

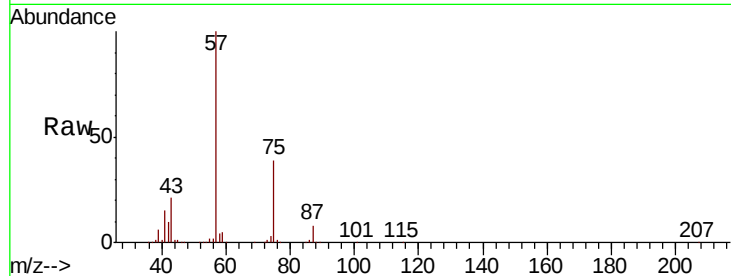
SA-06-041819-A

Tot Ion: 76 Resp: 10658

Ion Ratio Lower Upper

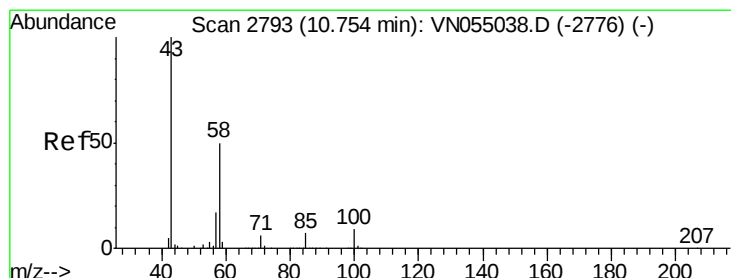
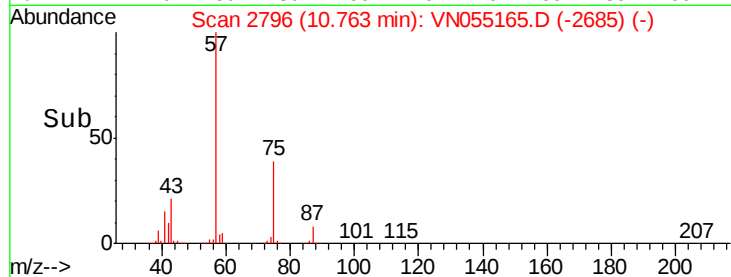
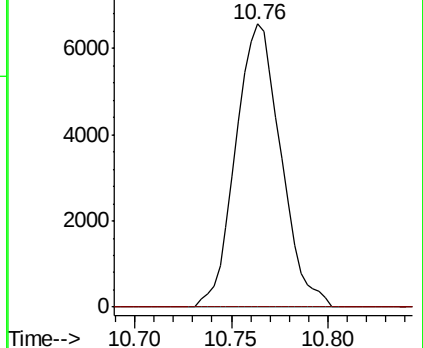
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 48.324 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055165.D

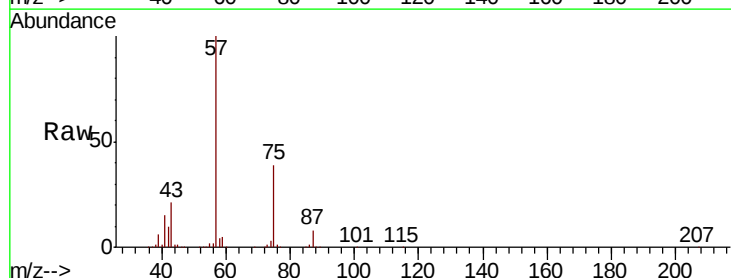
Acq: 20 Apr 2019 2:45

Tgt Ion: 43 Resp: 177918

Ion Ratio Lower Upper

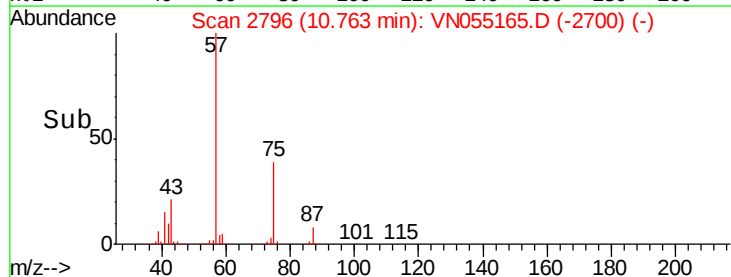
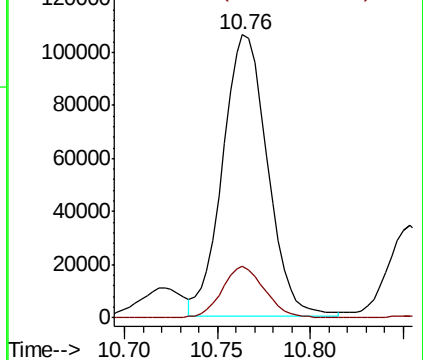
43 100

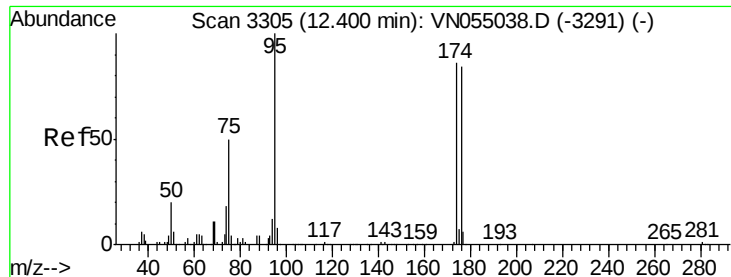
58 17.7 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.149 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-A

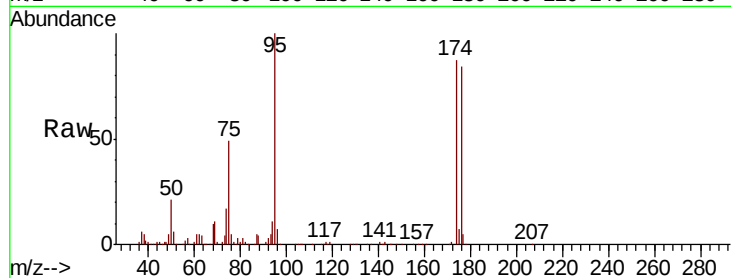
Tot Ion: 95 Resp: 287892

Ion Ratio Lower Upper

95 100

174 85.7 0.0 174.4

176 82.9 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055038.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055038.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055038.D (-3291) (-)

12.40

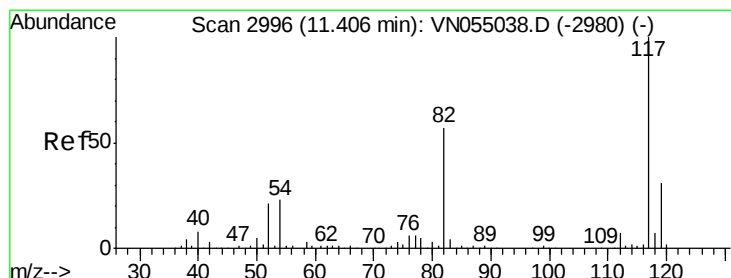
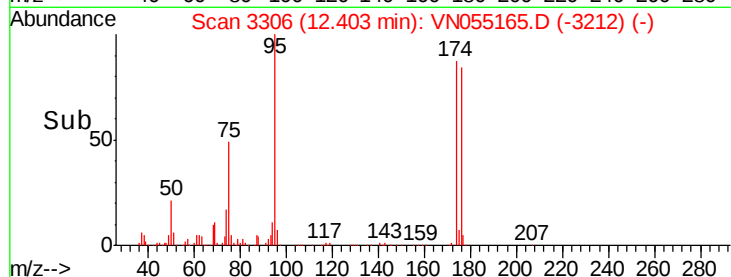
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

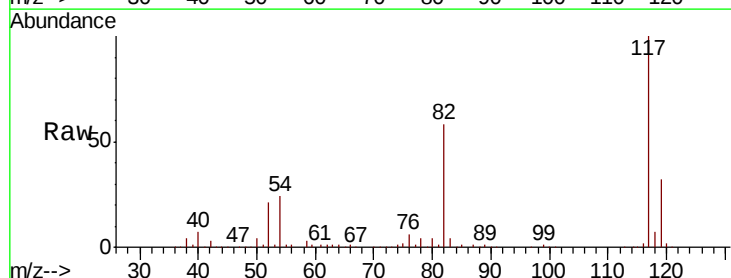
Tgt Ion: 117 Resp: 700122

Ion Ratio Lower Upper

117 100

82 57.5 44.6 66.8

119 31.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN055038.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN055038.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN055038.D (-2980) (-)

11.41

500000

400000

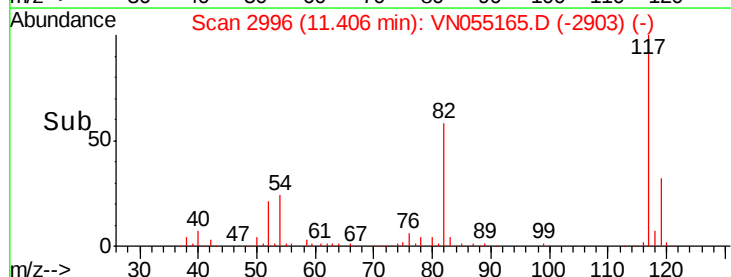
300000

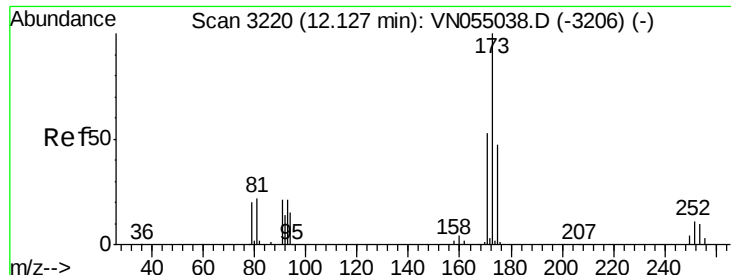
200000

100000

0

Time--> 11.30 11.40 11.50

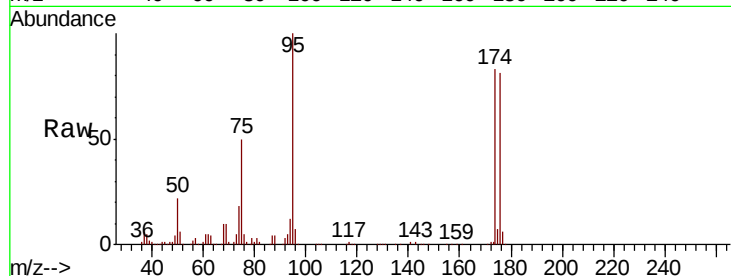




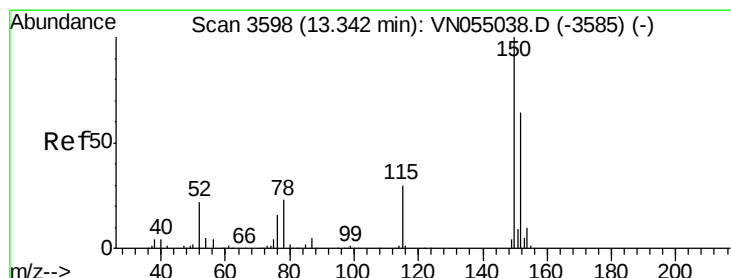
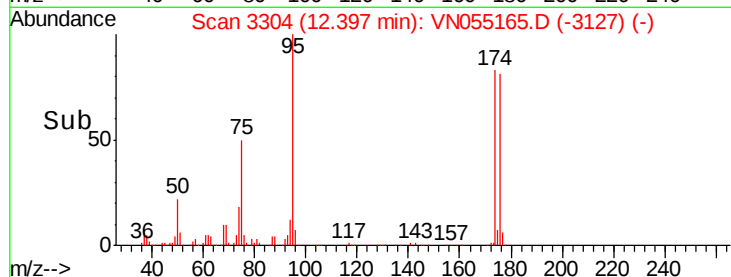
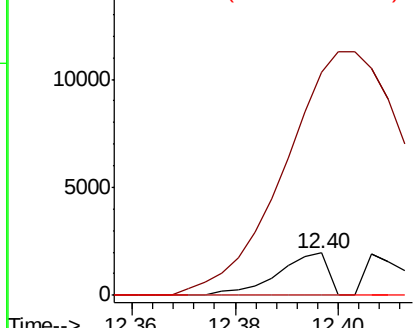
#71
Bromoform
Concen: 0.439 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-A

Tot Ion:173 Resp: 1305
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#

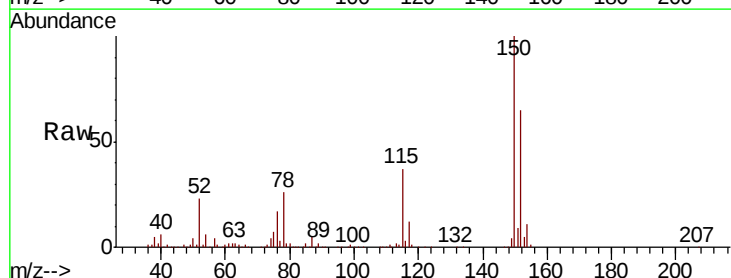


Abundance Ion 172.70 (172.40 to 173.40): V
15000 Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

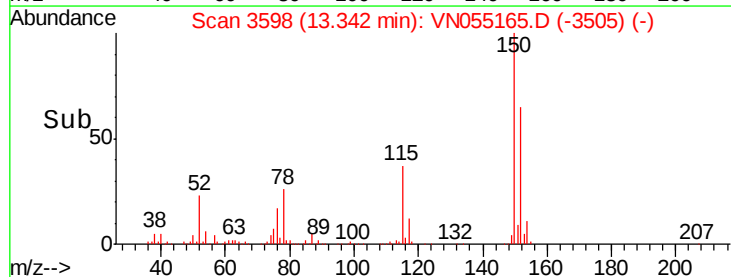
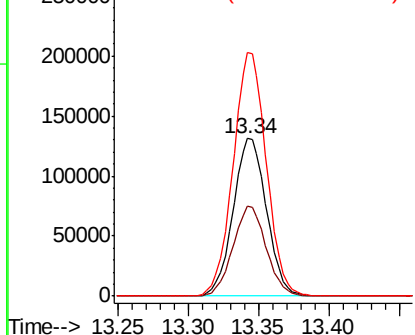


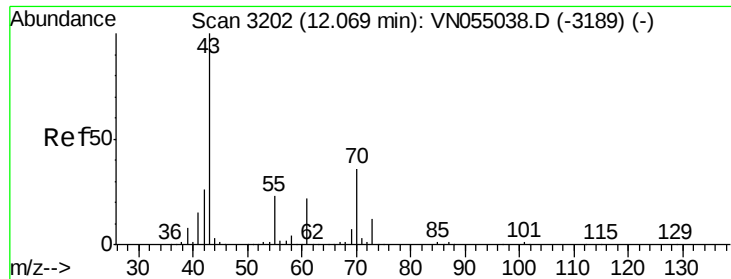
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055165.D
Acq: 20 Apr 2019 2:45

Tgt Ion:152 Resp: 217370
Ion Ratio Lower Upper
152 100
115 56.7 28.5 85.6
150 153.7 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
250000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.996 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-A

Tot Ion: 43 Resp: 16266

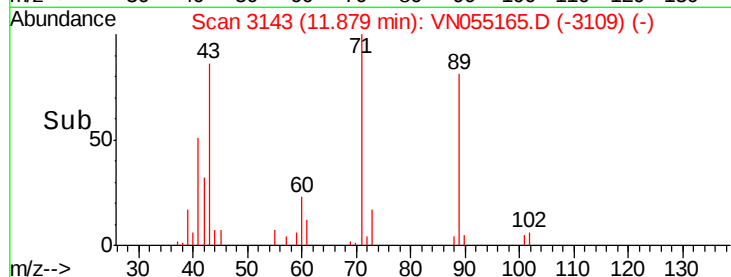
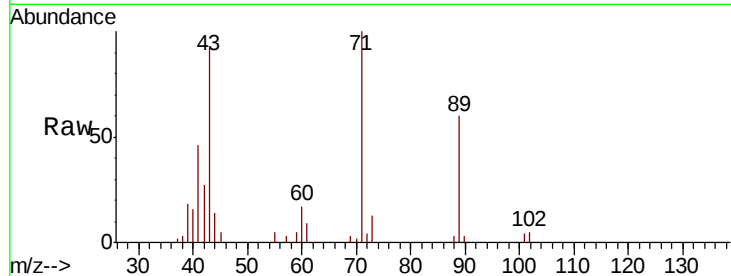
Ion Ratio Lower Upper

43 100

70 2.1 29.4 44.0#

55 5.6 19.0 28.4#

61 10.5 17.7 26.5#

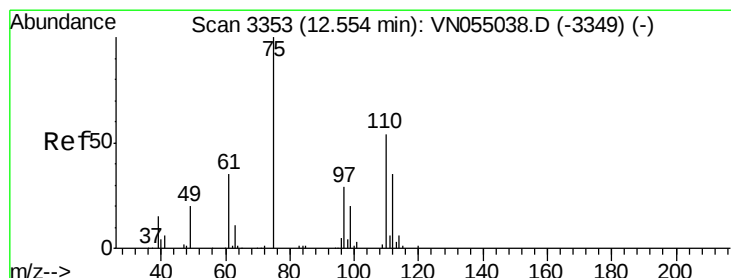
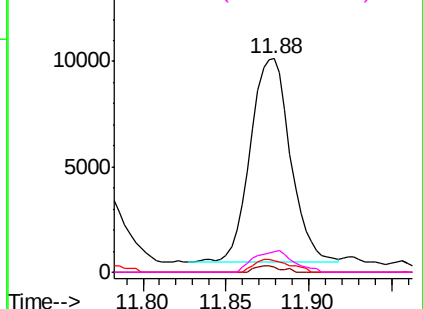


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 36.701 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055165.D

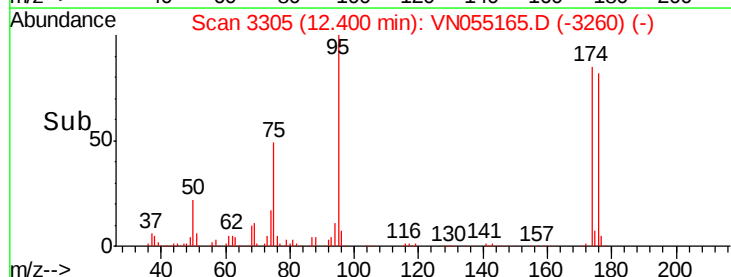
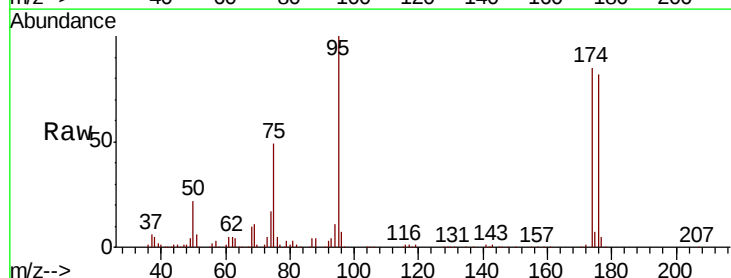
Acq: 20 Apr 2019 2:45

Tgt Ion: 75 Resp: 143459

Ion Ratio Lower Upper

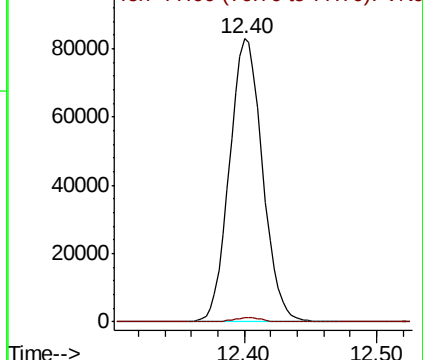
75 100

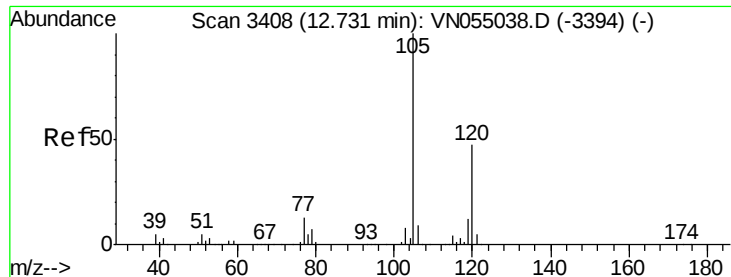
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.321 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

Instrument :

MSVOA_N

ClientSampleId :

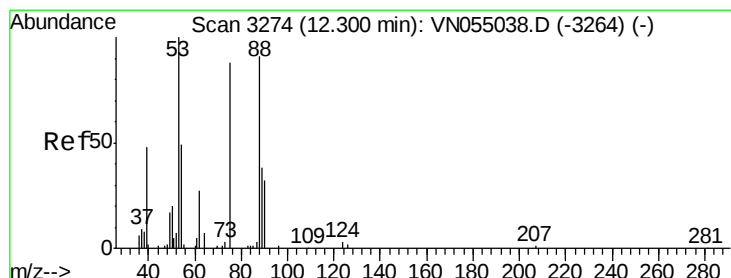
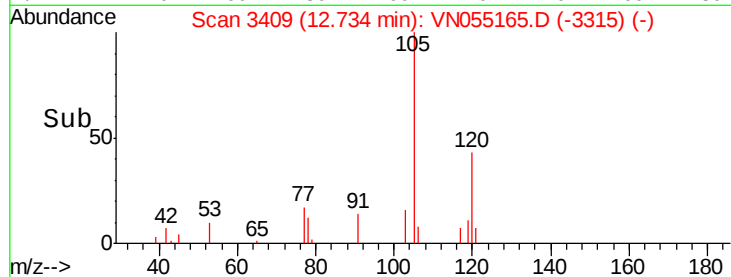
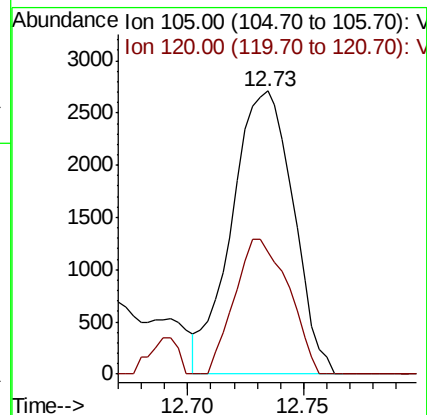
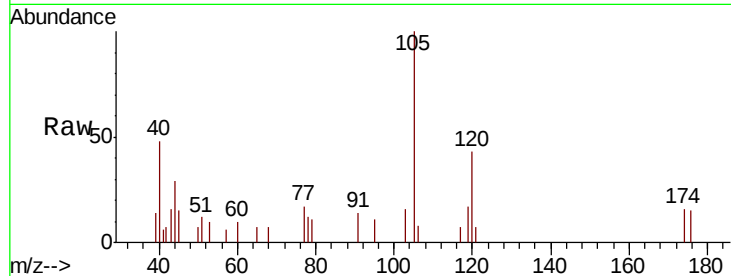
SA-06-041819-A

Tot Ion:105 Resp: 4990

Ion Ratio Lower Upper

105 100

120 42.0 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 146.763 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055165.D

Acq: 20 Apr 2019 2:45

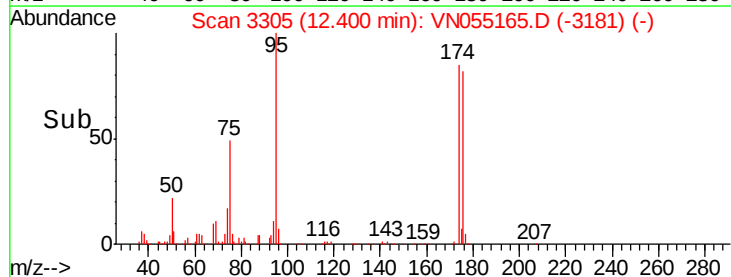
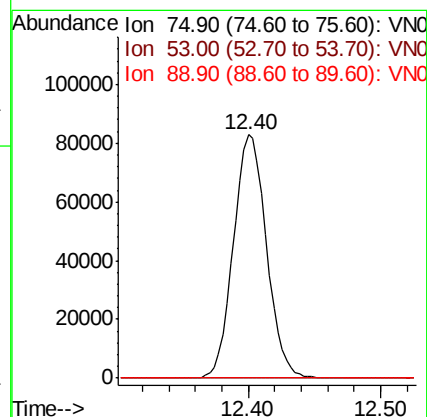
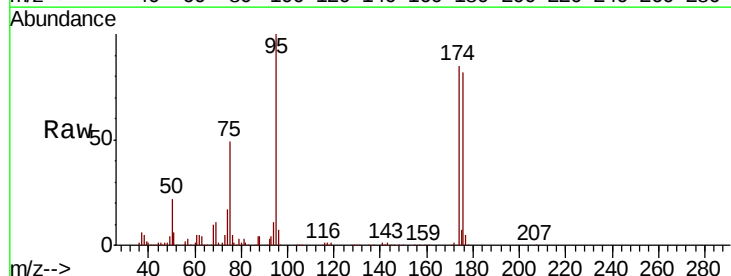
Tgt Ion: 75 Resp: 143459

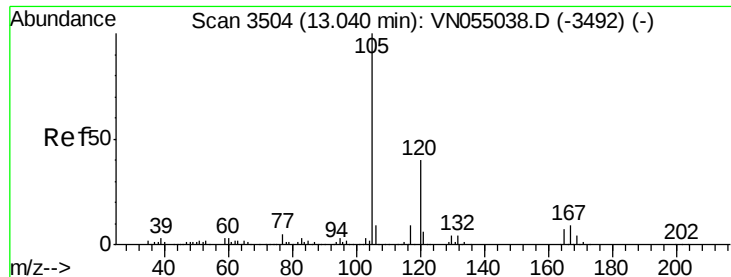
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#

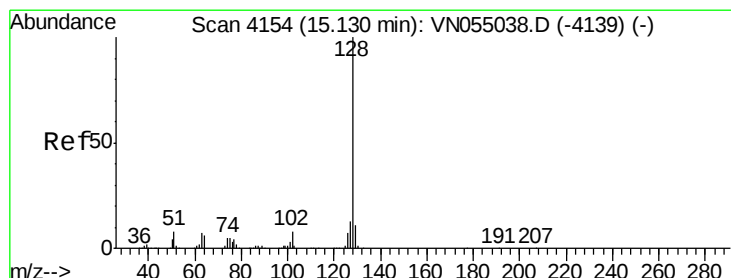
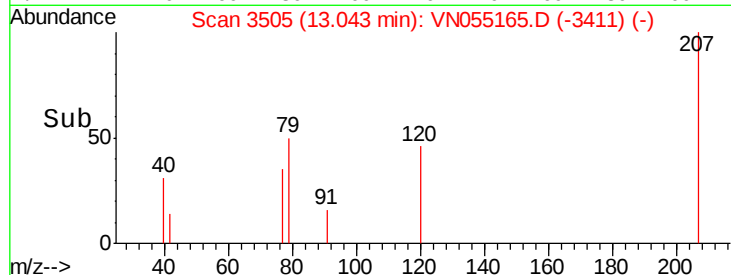
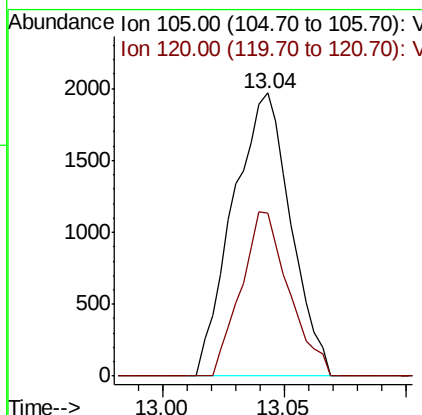
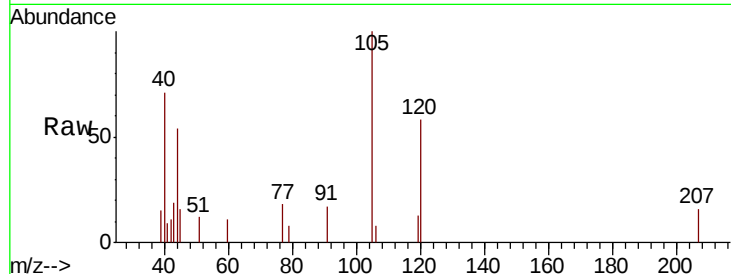




#84
 1,2,4-Trimethylbenzene
 Concen: 0.219 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN055165.D
 Acq: 20 Apr 2019 2:45

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-06-041819-A

Tot Ion:105 Resp: 3236
 Ion Ratio Lower Upper
 105 100
 120 47.8 22.4 67.3



#95
 Naphthalene
 Concen: 3.356 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN055165.D
 Acq: 20 Apr 2019 2:45

Tgt Ion:128 Resp: 2297
 Ion Ratio Lower Upper
 128 100
 127 9.2 10.1 15.1#
 129 4.5 8.8 13.2#

