

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061025.D
 Acq On : 16 Apr 2020 20:28
 Operator : JC/MD
 Sample : L2287-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GLOUCESTER-SP

Quant Time: Apr 17 04:01:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	158819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	270381	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	255653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	114286	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	106607	52.46	ug/l	0.00
Spiked Amount						
			Recovery	=	104.92%	
35) Dibromofluoromethane	7.56	113	80607	51.05	ug/l	0.00
Spiked Amount						
			Recovery	=	102.10%	
50) Toluene-d8	10.08	98	334825	56.12	ug/l	0.00
Spiked Amount						
			Recovery	=	112.24%	
62) 4-Bromofluorobenzene	12.39	95	127914	54.70	ug/l	0.00
Spiked Amount						
			Recovery	=	109.40%	

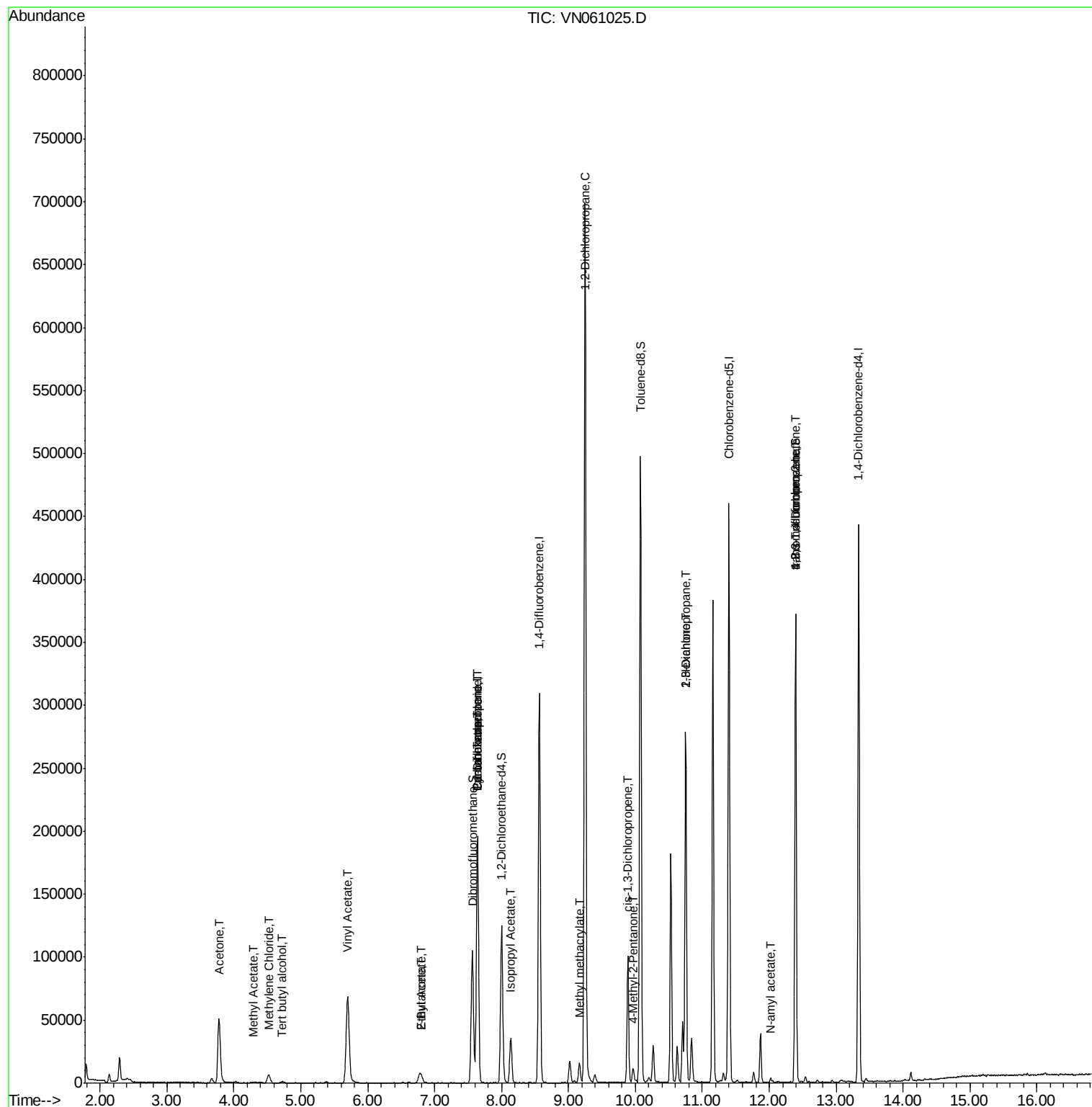
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	1023	2.838	ug/l #	73
16) Acetone	3.78	43	89054	99.571	ug/l	99
18) Methyl Acetate	4.29	43	1550	0.553	ug/l #	54
20) Methylene Chloride	4.52	84	5471	2.802	ug/l	88
23) Vinyl Acetate	5.69	43	1425	0.266	ug/l #	75
25) 2-Butanone	6.80	43	10303	7.518	ug/l	97
31) Cyclohexane	7.64	56	3485	0.921	ug/l #	8
36) 1,1-Dichloropropene	7.64	75	12733	4.564	ug/l #	48
37) Ethyl Acetate	6.80	43	10303	3.401	ug/l #	69
38) Carbon Tetrachloride	7.64	117	14999	6.458	ug/l #	14
43) Isopropyl Acetate	8.14	43	43674	8.864	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	765	0.342	ug/l #	43
48) Methyl methacrylate	9.16	41	2485	1.141	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8054	2.836	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	17627	5.107	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2725	0.813	ug/l #	43
59) 2-Hexanone	10.75	43	42508	20.751	ug/l #	55
74) N-amyl acetate	12.02	43	2644	0.621	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	65453	26.037	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	65453	64.223	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

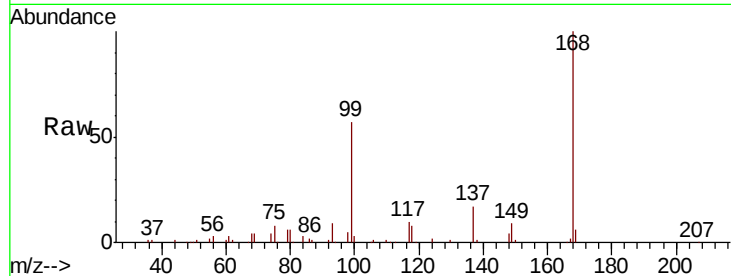
GLOUCESTER-SP

Tot Ion:168 Resp: 158819

Ion Ratio Lower Upper

168 100

99 57.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN061006.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN061006.D (-1806) (-)

7.64

60000

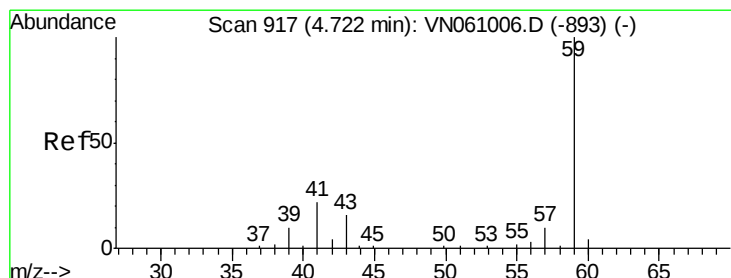
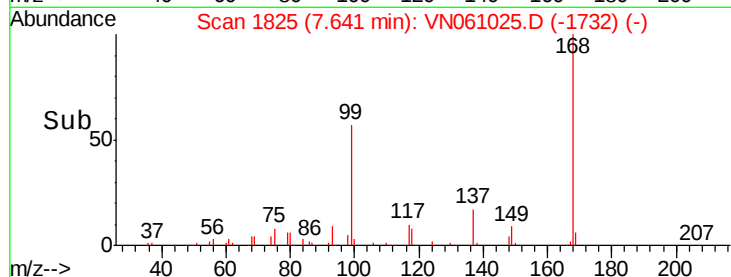
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 2.838 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.01 min

Lab File: VN061025.D

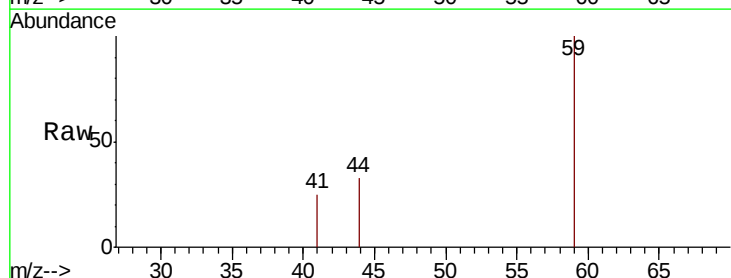
Acq: 16 Apr 2020 20:28

Tgt Ion: 59 Resp: 1023

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN061006.D (-893) (-)

Ion 57.00 (56.70 to 57.70): VN061006.D (-893) (-)

4.71

600

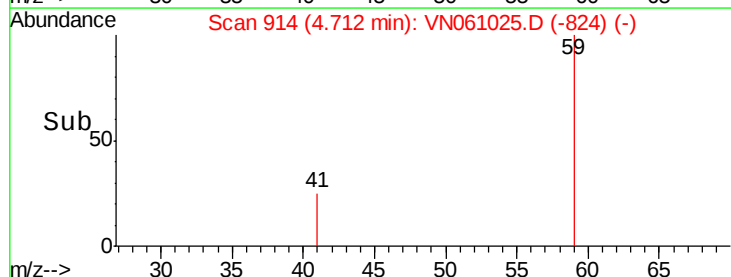
400

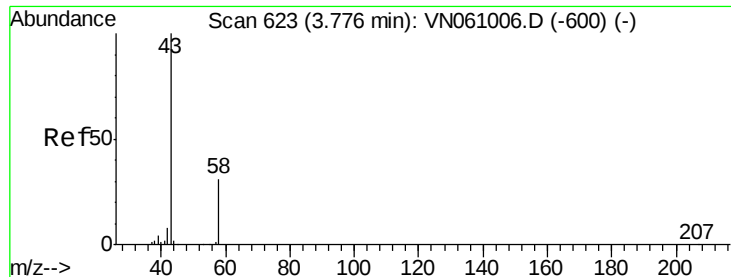
200

0

4.66 4.68 4.70 4.72

Time-->





#16

Acetone

Concen: 99.571 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

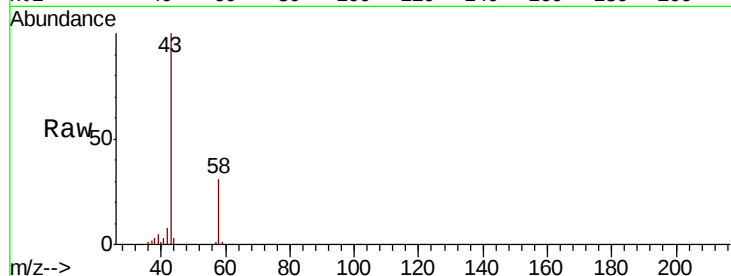
GLOUCESTER-SP

Tot Ion: 43 Resp: 89054

Ion Ratio Lower Upper

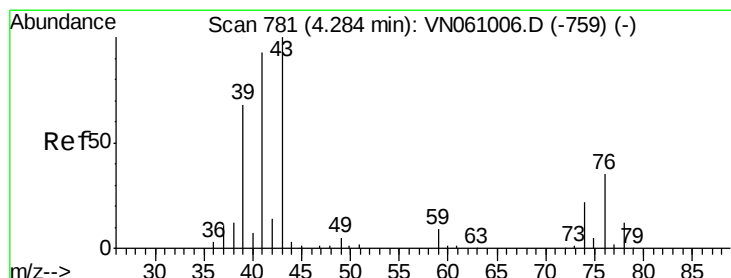
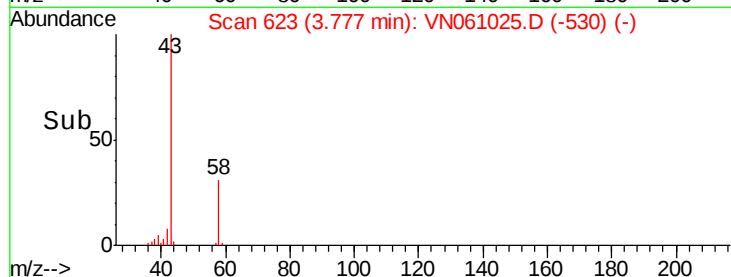
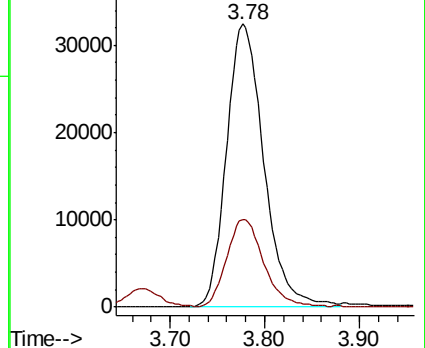
43 100

58 30.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-600) (-)



#18

Methyl Acetate

Concen: 0.553 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN061025.D

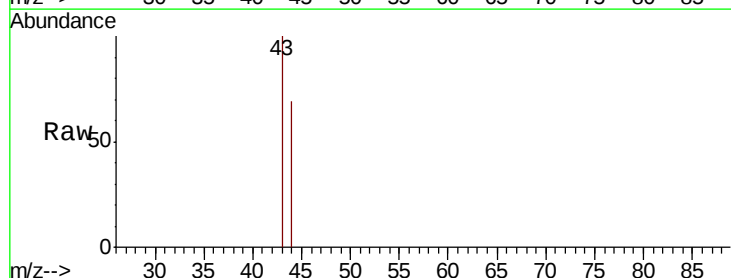
Acq: 16 Apr 2020 20:28

Tgt Ion: 43 Resp: 1550

Ion Ratio Lower Upper

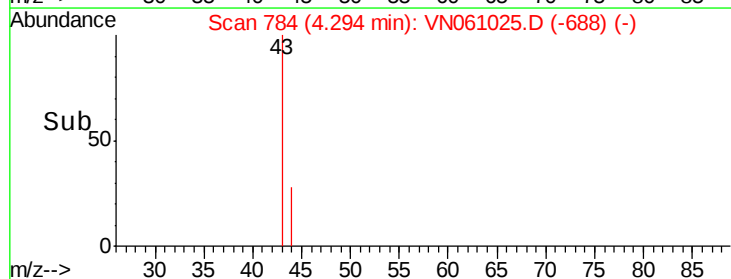
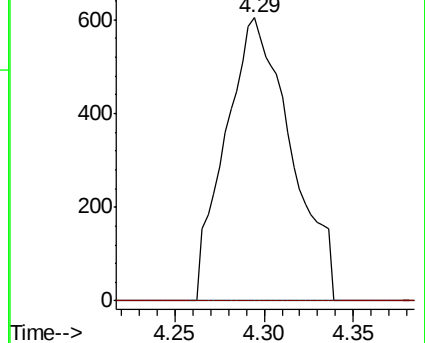
43 100

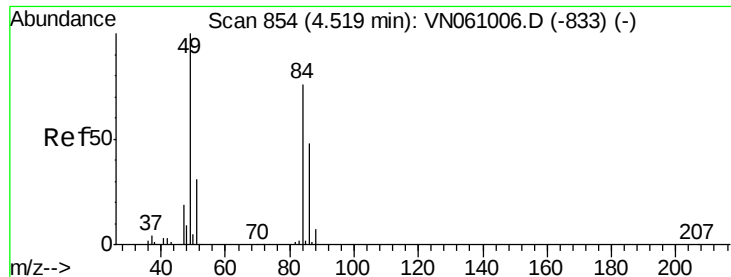
74 0.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN061006.D (-759) (-)





#20

Methvlene Chloride

Concen: 2.802 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

Tot Ion: 84 Resp: 5471

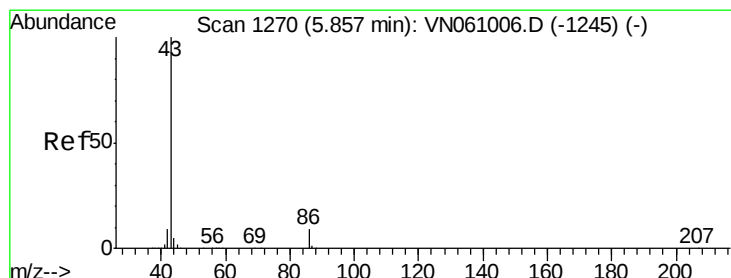
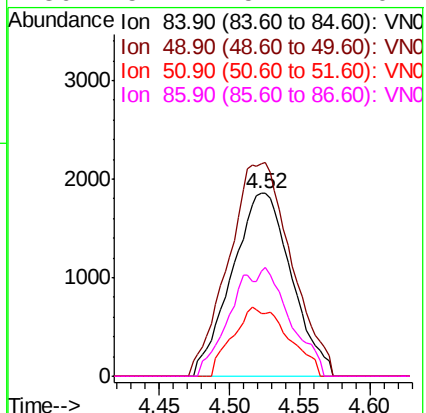
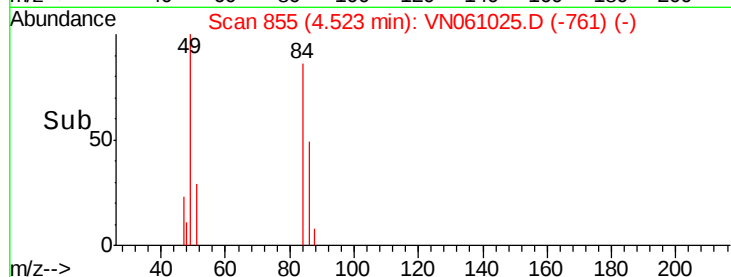
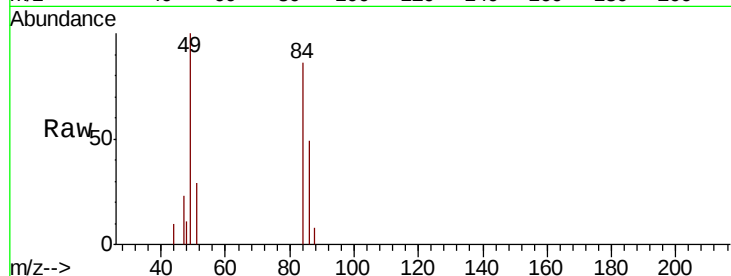
Ion Ratio Lower Upper

84 100

49 116.3 105.8 158.6

51 34.0 32.4 48.6

86 57.1 51.1 76.7



#23

Vinyl Acetate

Concen: 0.266 ug/l

RT: 5.69 min Scan# 1219

Delta R.T. -0.16 min

Lab File: VN061025.D

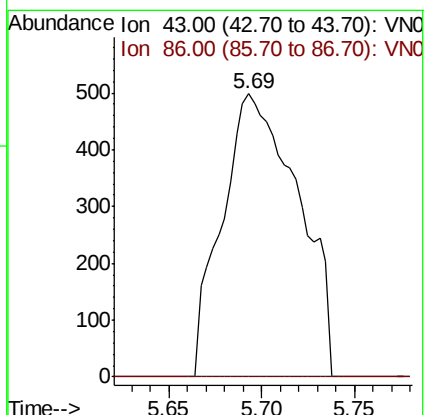
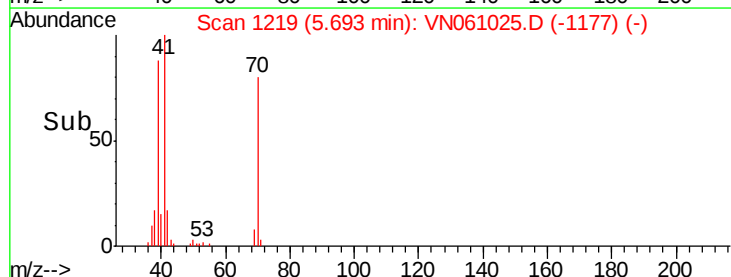
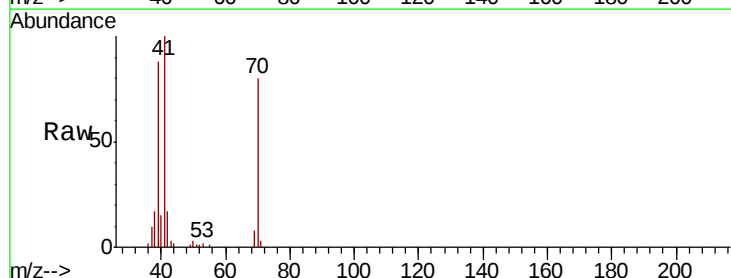
Acq: 16 Apr 2020 20:28

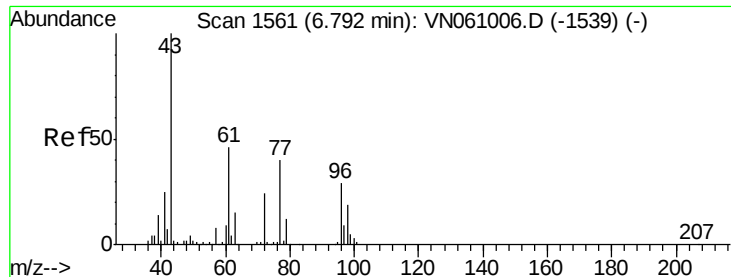
Tgt Ion: 43 Resp: 1425

Ion Ratio Lower Upper

43 100

86 0.0 7.3 10.9#

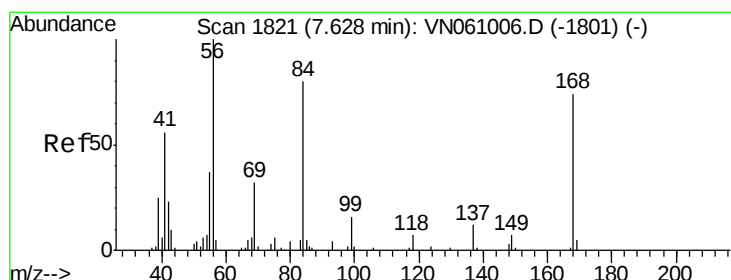
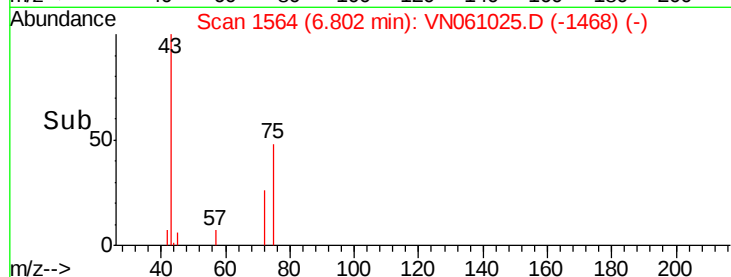
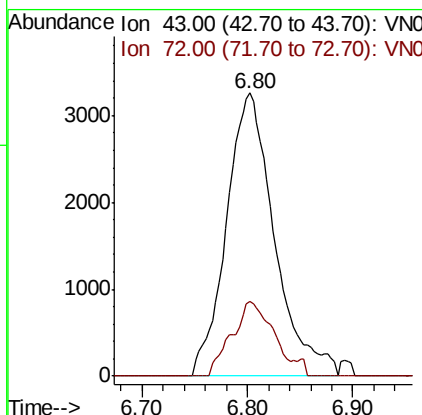
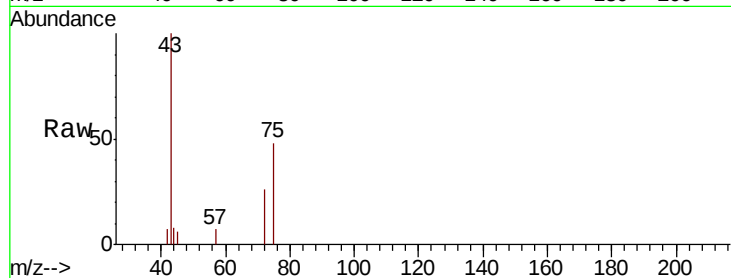




#25
2-Butanone
Concen: 7.518 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

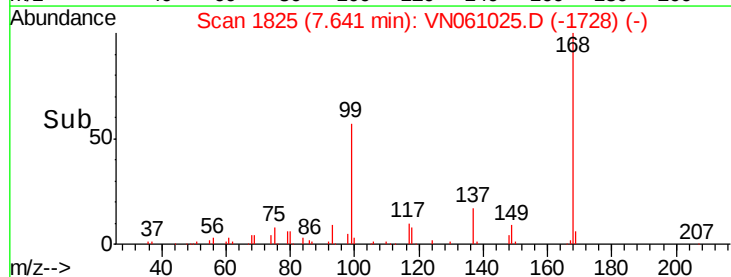
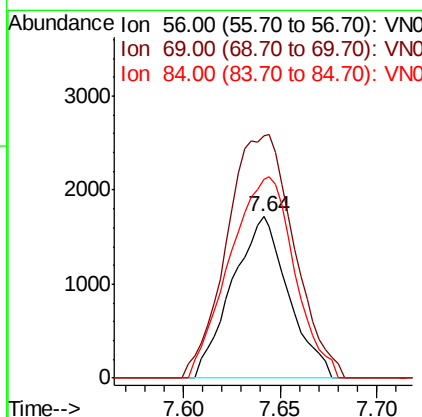
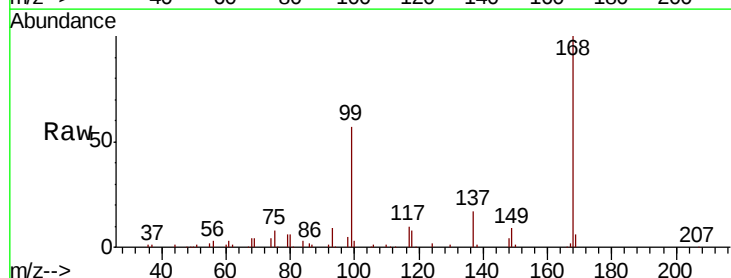
Instrument :
MSVOA_N
ClientSampleId :
GLOUCESTER-SP

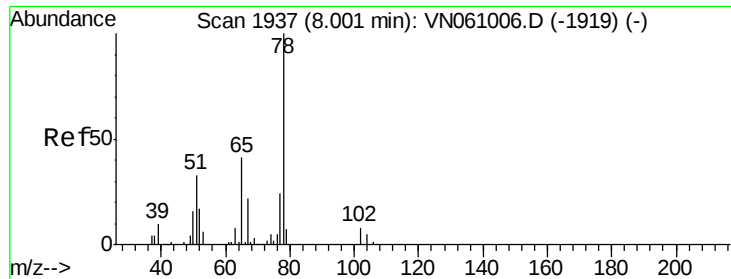
Tot Ion: 43 Resp: 10303
Ion Ratio Lower Upper
43 100
72 26.2 19.6 29.4



#31
Cyclohexane
Concen: 0.921 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Tgt Ion: 56 Resp: 3485
Ion Ratio Lower Upper
56 100
69 141.0 25.6 38.4#
84 122.9 63.4 95.2#





#33

1,2-Dichloroethane-d4

Concen: 52.465 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

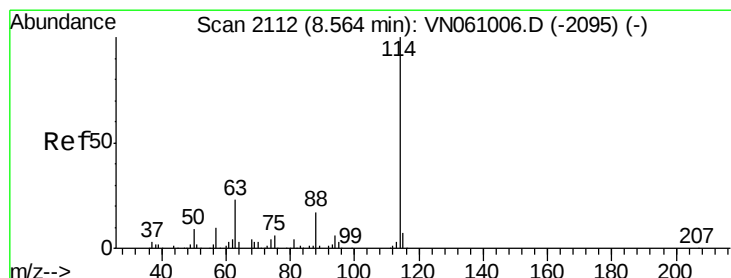
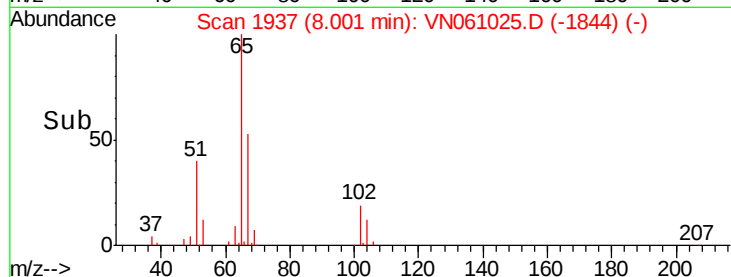
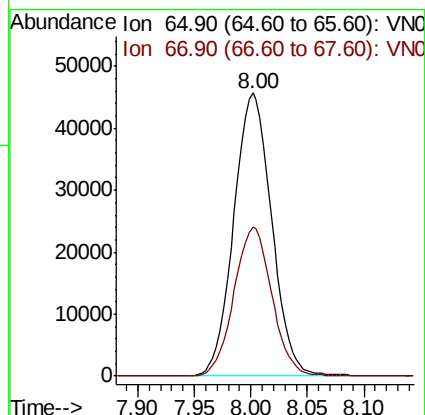
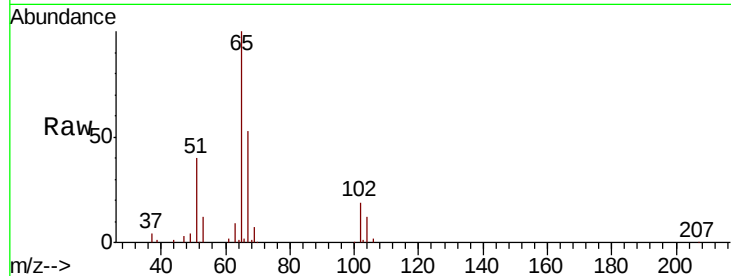
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Tot Ion: 65 Resp: 106607

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

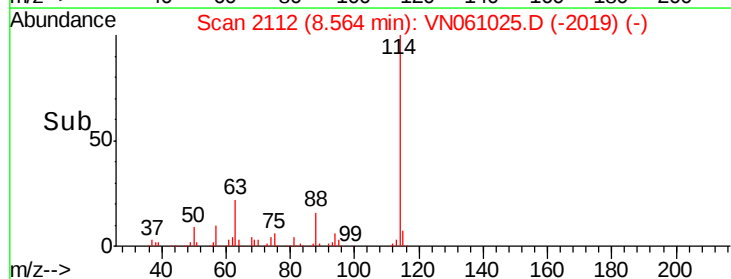
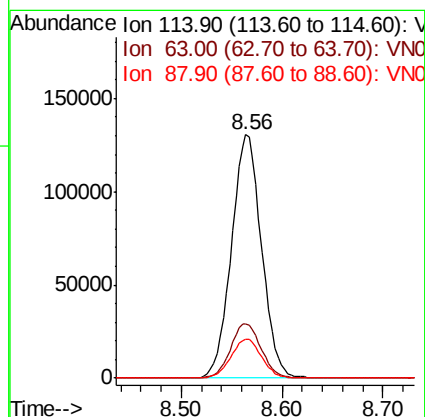
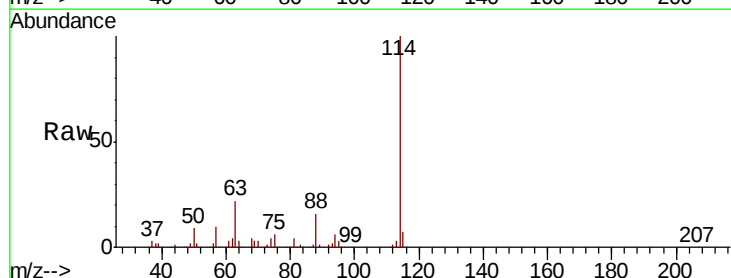
Tgt Ion: 114 Resp: 270381

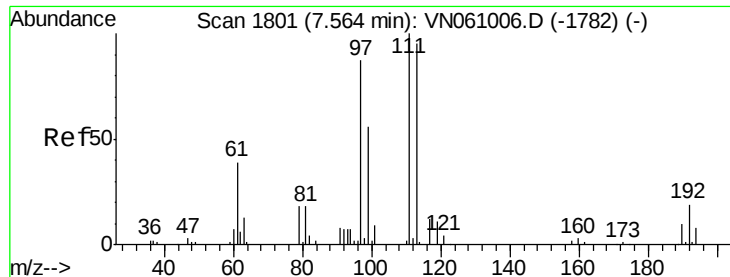
Ion Ratio Lower Upper

114 100

63 22.4 0.0 46.2

88 16.2 0.0 33.4

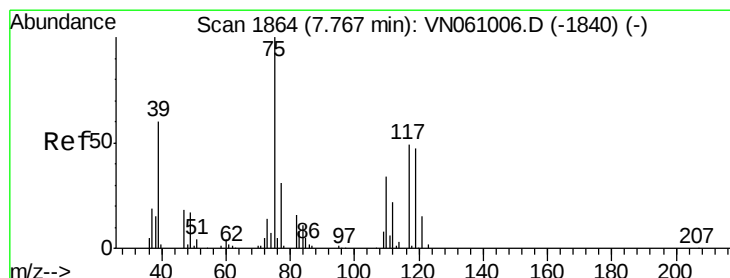
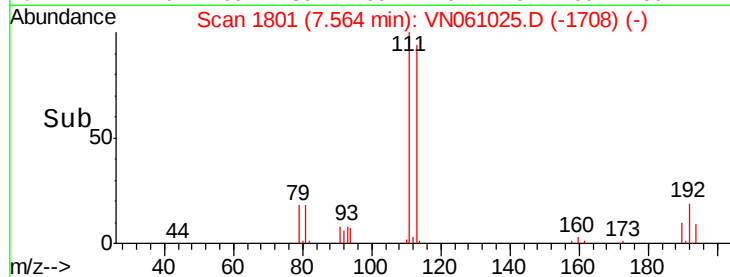
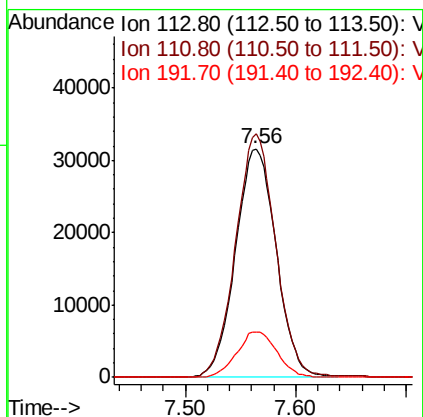
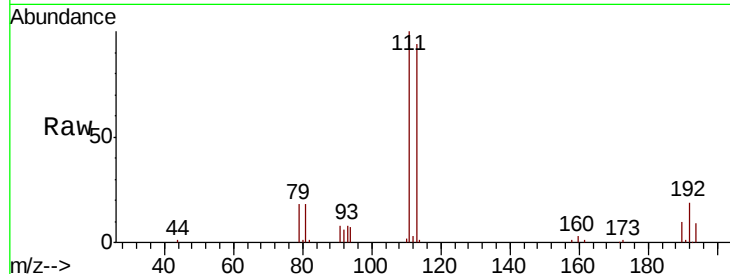




#35
 Dibromofluoromethane
 Concen: 51.050 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061025.D
 Acq: 16 Apr 2020 20:28

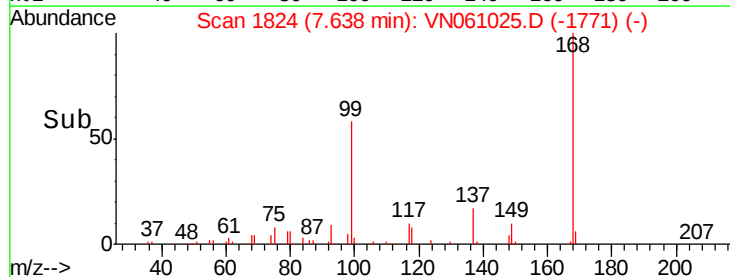
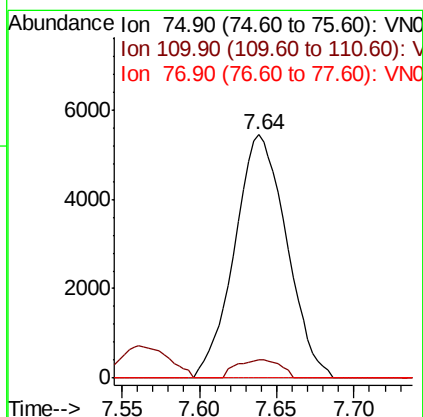
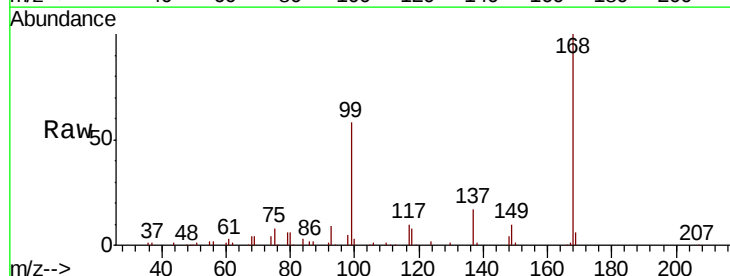
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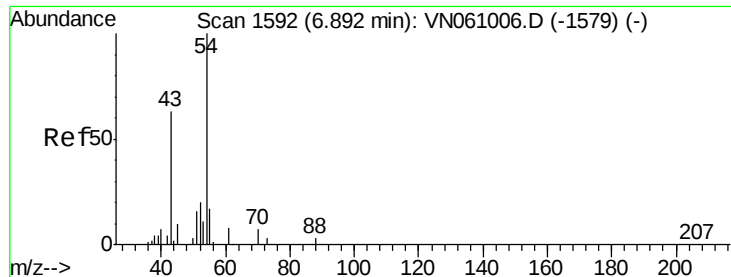
Tot Ion:113 Resp: 80607
 Ion Ratio Lower Upper
 113 100
 111 105.0 83.4 125.2
 192 19.5 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.564 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061025.D
 Acq: 16 Apr 2020 20:28

Tgt Ion: 75 Resp: 12733
 Ion Ratio Lower Upper
 75 100
 110 6.3 16.8 50.3#
 77 0.0 24.7 37.1#

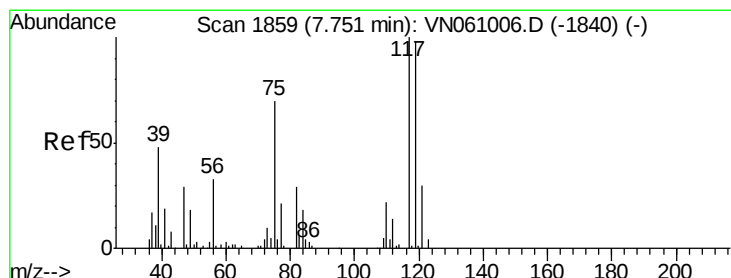
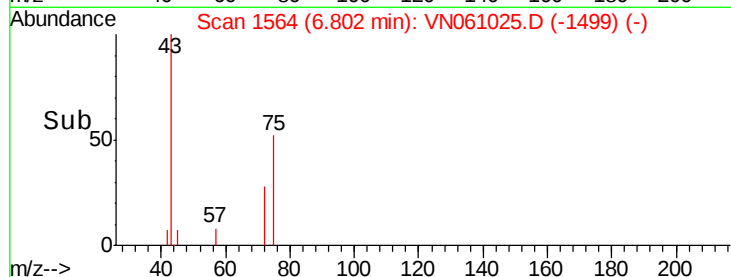
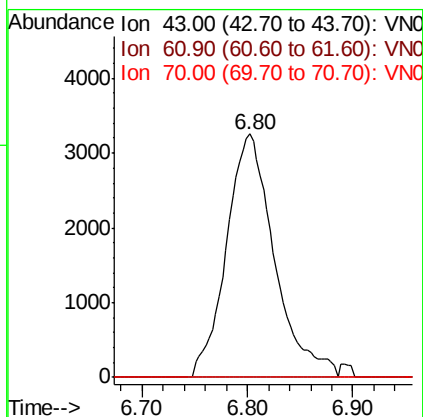
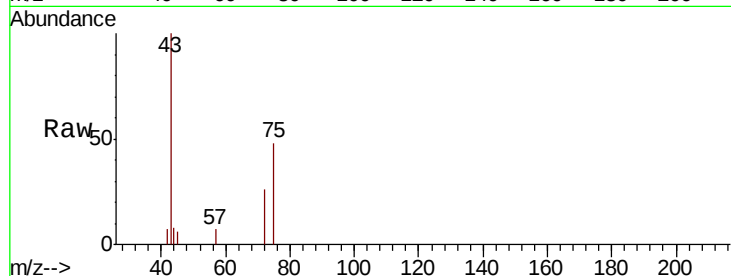




#37
Ethyl Acetate
Concen: 3.401 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

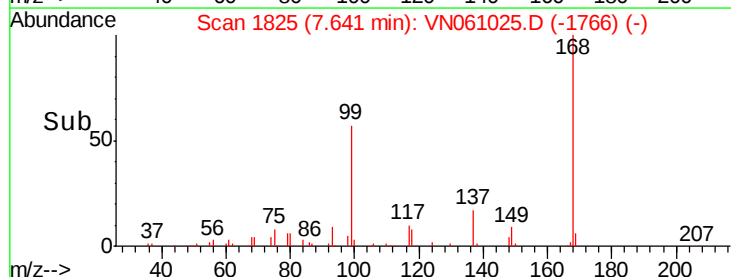
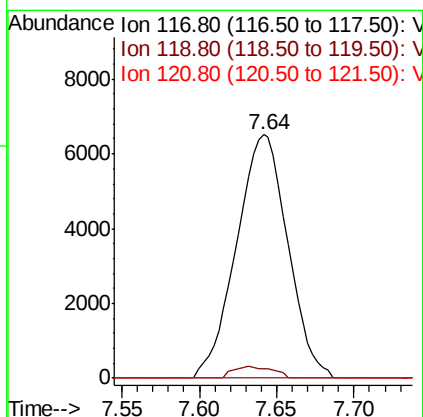
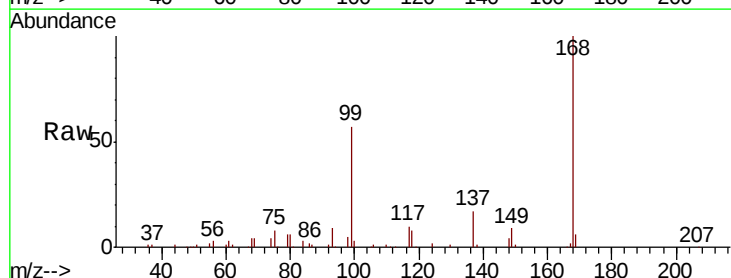
Instrument :
MSVOA_N
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GLOUCESTER-SP

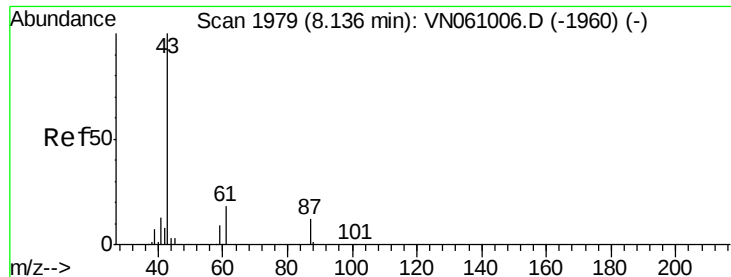
Tot Ion: 43 Resp: 10303
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.458 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Tgt Ion: 117 Resp: 14999
Ion Ratio Lower Upper
117 100
119 3.9 78.1 117.1#
121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 8.864 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

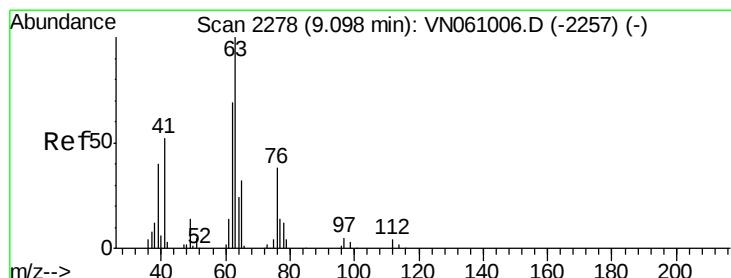
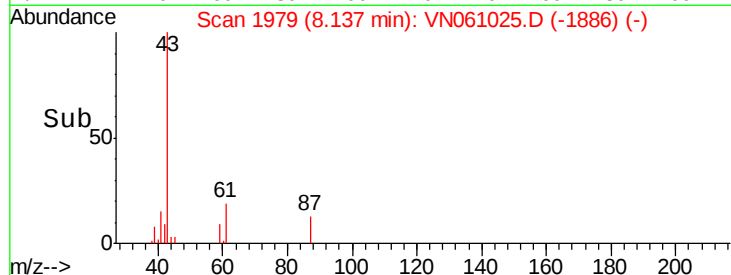
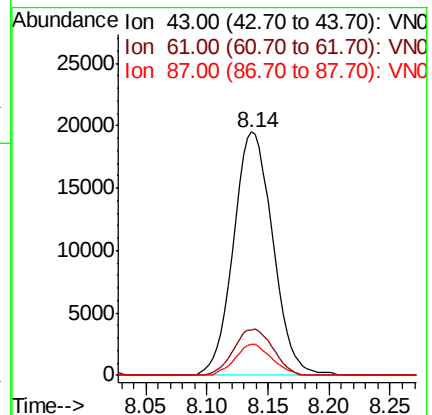
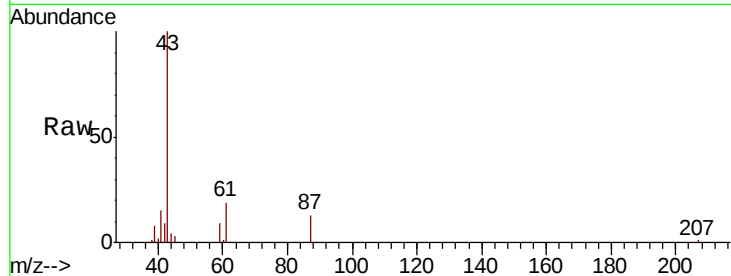
Tot Ion: 43 Resp: 43674

Ion Ratio Lower Upper

43 100

61 18.9 20.3 30.5#

87 11.9 9.4 14.2



#45

1,2-Dichloropropane

Concen: 0.342 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.15 min

Lab File: VN061025.D

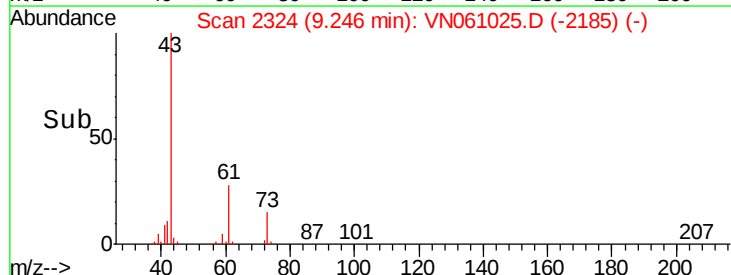
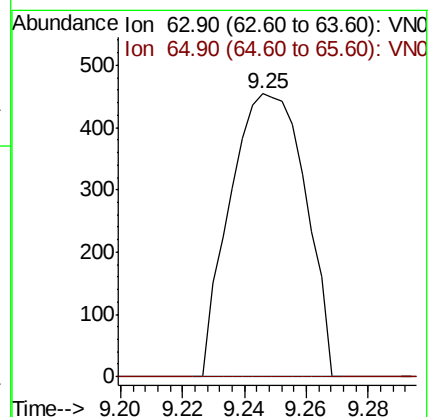
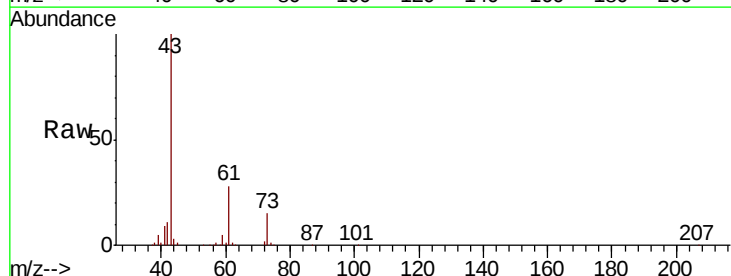
Acq: 16 Apr 2020 20:28

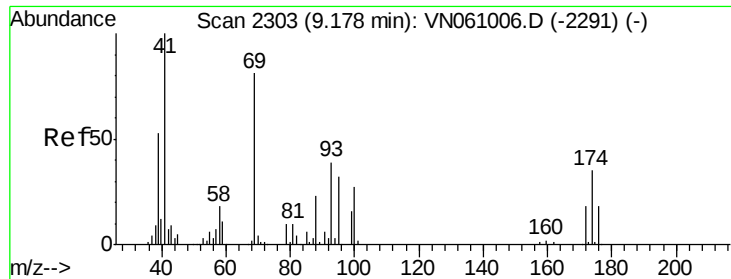
Tgt Ion: 63 Resp: 765

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#

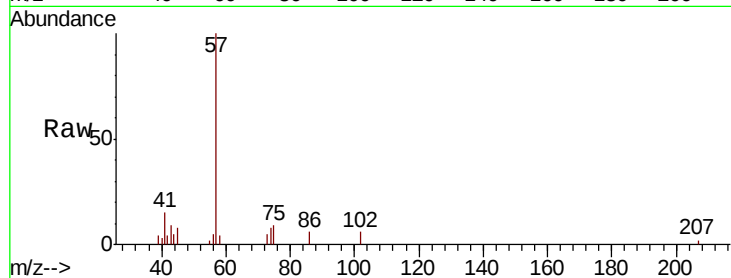




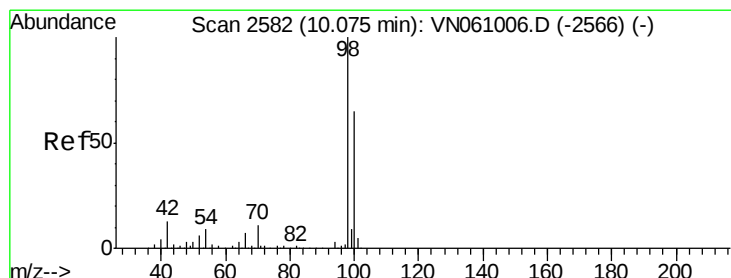
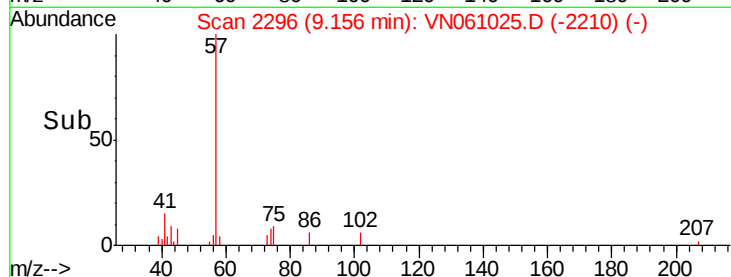
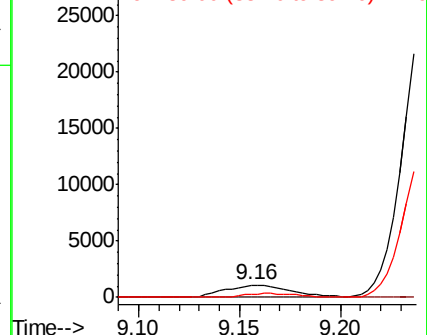
#48
Methvl methacrylate
Concen: 1.141 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.02 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Instrument :
MSVOA_N
ClientSampleId :
GLOUCESTER-SP

Tot Ion: 41 Resp: 2485
Ion Ratio Lower Upper
41 100
69 0.0 65.3 97.9#
39 0.0 45.2 67.8#

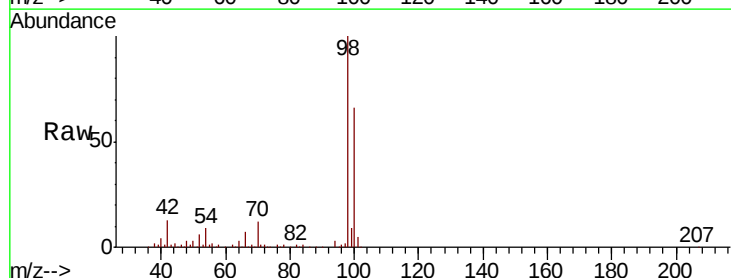


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

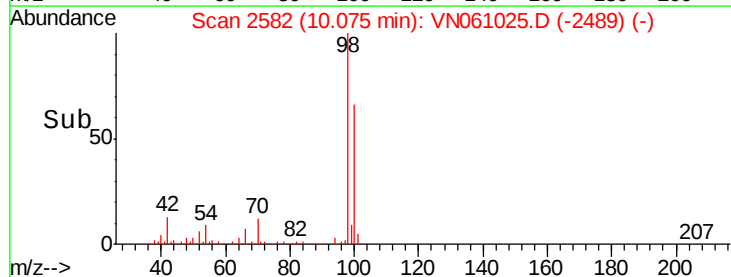
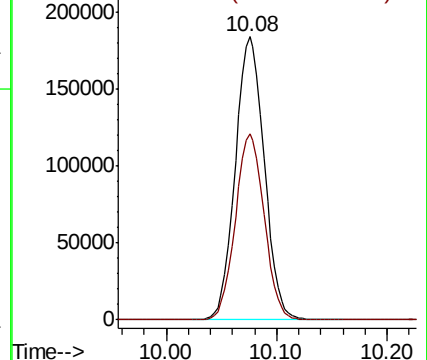


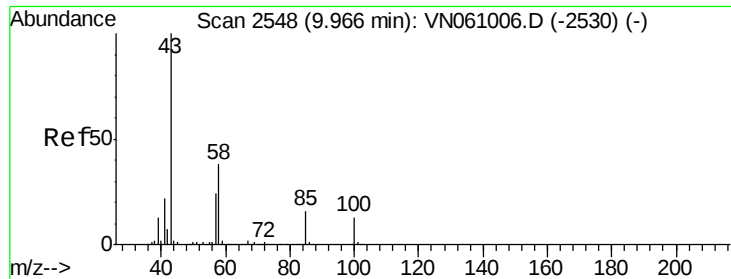
#50
Toluene-d8
Concen: 56.116 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Tgt Ion: 98 Resp: 334825
Ion Ratio Lower Upper
98 100
100 65.4 51.9 77.9



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: 2.836 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

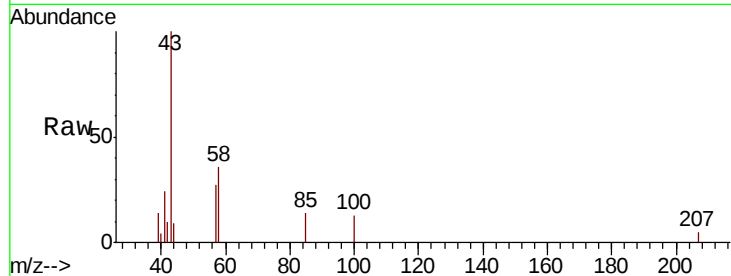
GLOUCESTER-SP

Tot Ion: 43 Resp: 8054

Ion Ratio Lower Upper

43 100

58 38.0 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-2530) (-)

20000

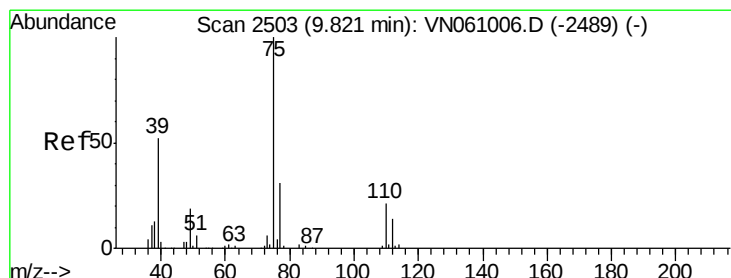
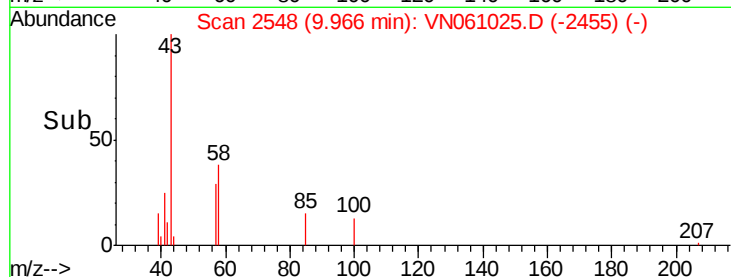
15000

10000

5000

0

Time--> 9.90 9.95 10.00



#54

cis-1,3-Dichloropropene

Concen: 5.107 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

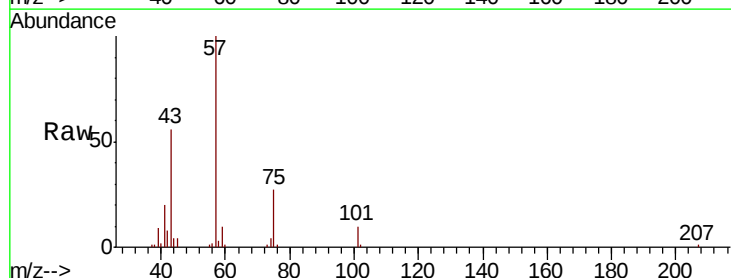
Tgt Ion: 75 Resp: 17627

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 31.6 41.4 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VN061006.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN061006.D (-2489) (-)

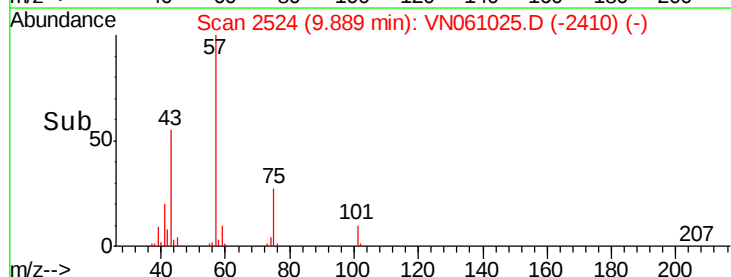
Ion 39.00 (38.70 to 39.70): VN061006.D (-2489) (-)

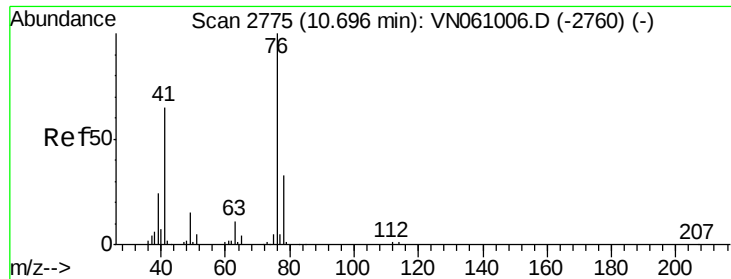
10000

5000

0

Time--> 9.85 9.90 9.95

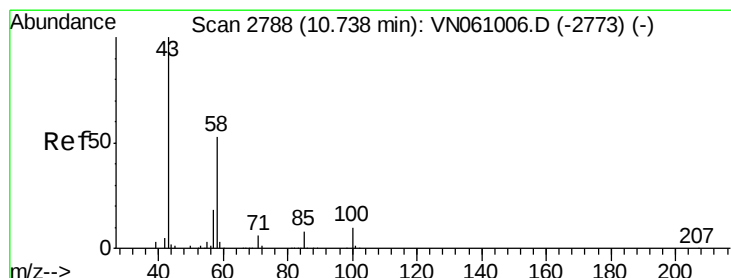
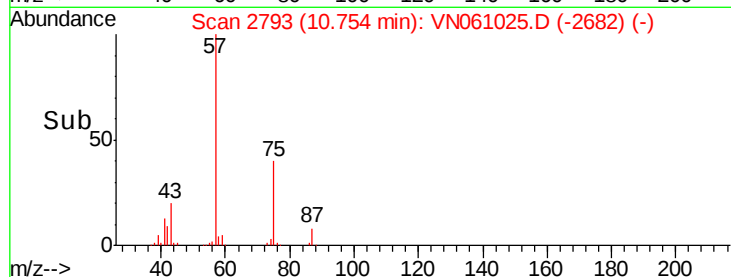
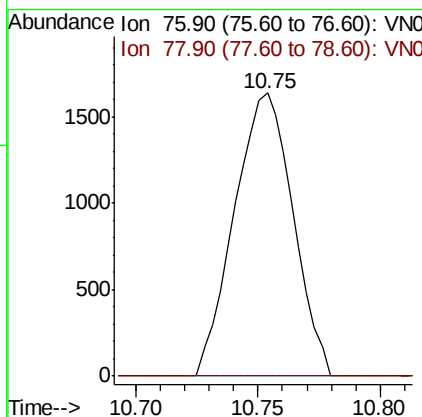
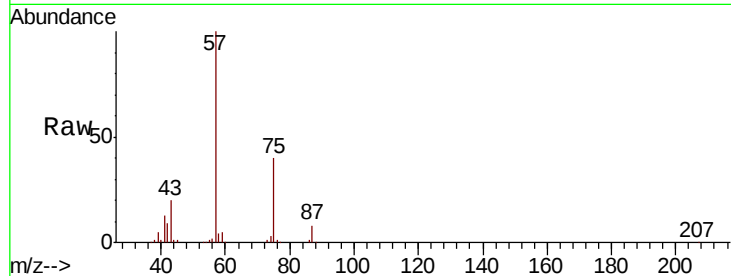




#57
 1,3-Dichloropropane
 Concen: 0.813 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN061025.D
 Acq: 16 Apr 2020 20:28

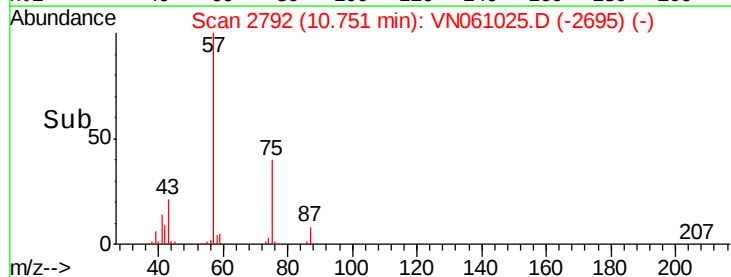
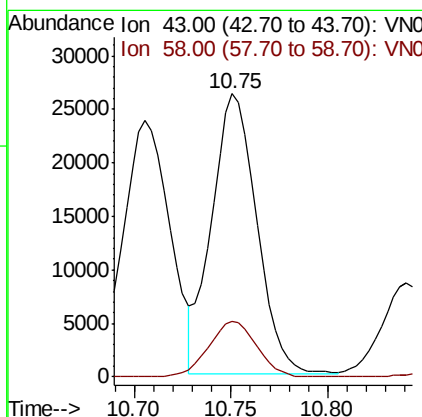
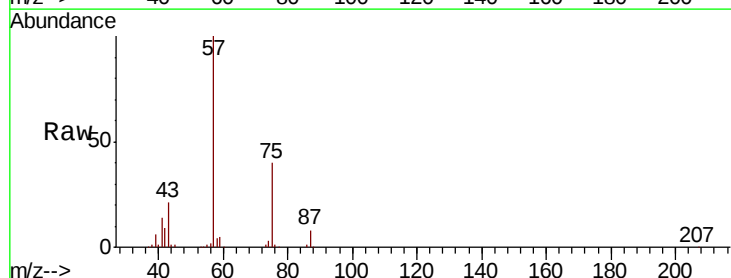
Instrument :
 MSVOA_N
 ClientSampleId :
 GLOUCESTER-SP

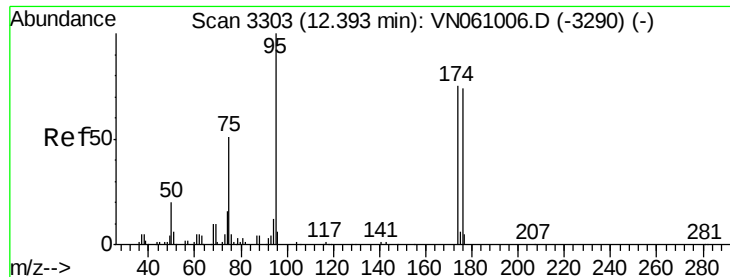
Tot Ion: 76 Resp: 2725
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 20.751 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.01 min
 Lab File: VN061025.D
 Acq: 16 Apr 2020 20:28

Tgt Ion: 43 Resp: 42508
 Ion Ratio Lower Upper
 43 100
 58 20.9 26.4 79.0#





#62

4-Bromofluorobenzene

Concen: 54.699 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

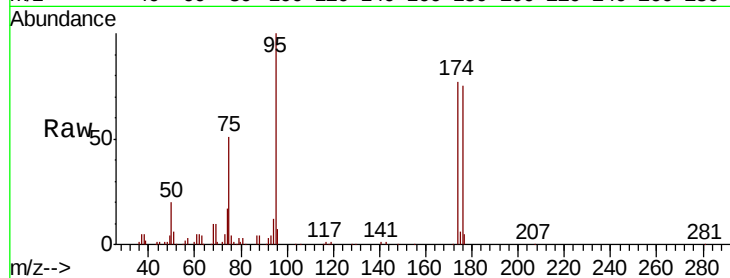
Tot Ion: 95 Resp: 127914

Ion Ratio Lower Upper

95 100

174 75.8 0.0 151.2

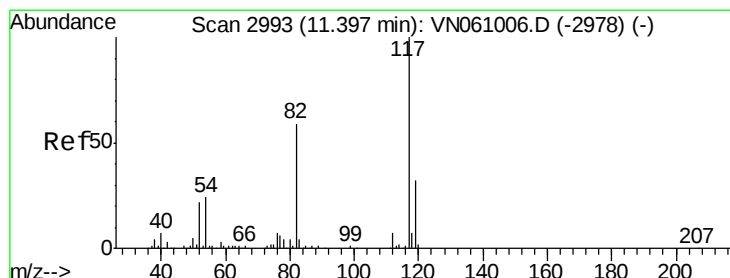
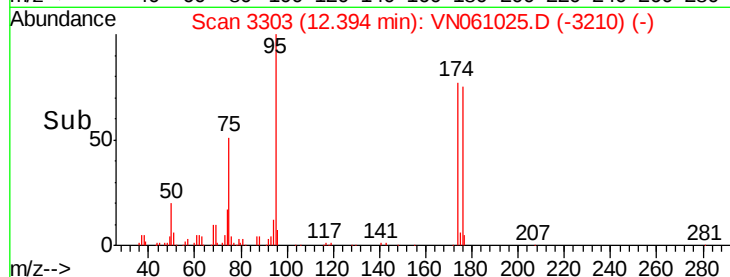
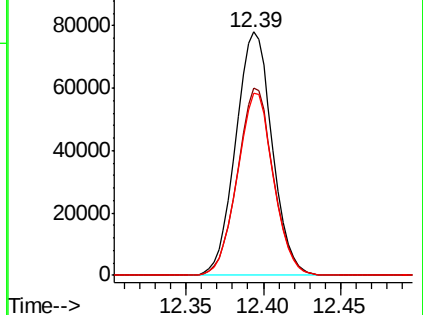
176 74.0 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

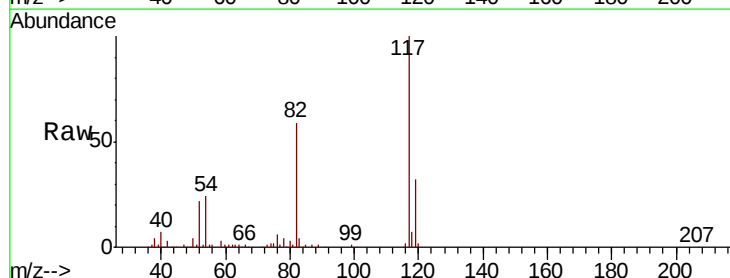
Tgt Ion: 117 Resp: 255653

Ion Ratio Lower Upper

117 100

82 58.9 47.1 70.7

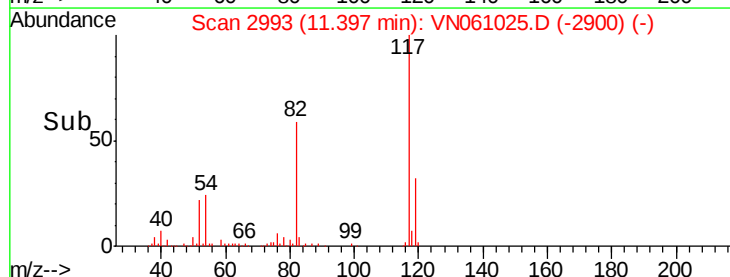
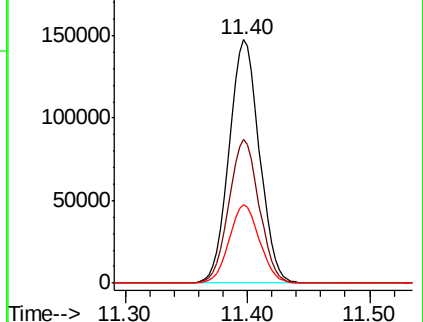
119 32.1 25.7 38.5

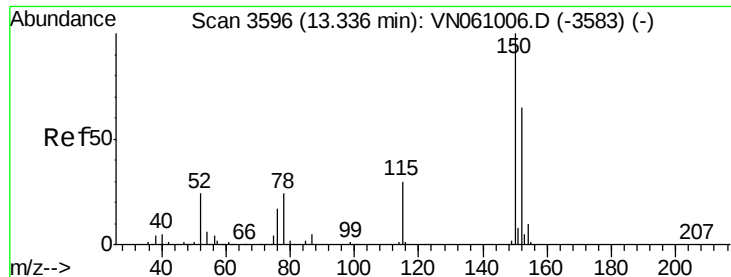


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)



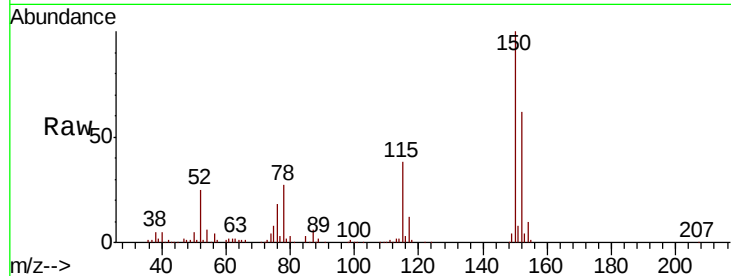


#72

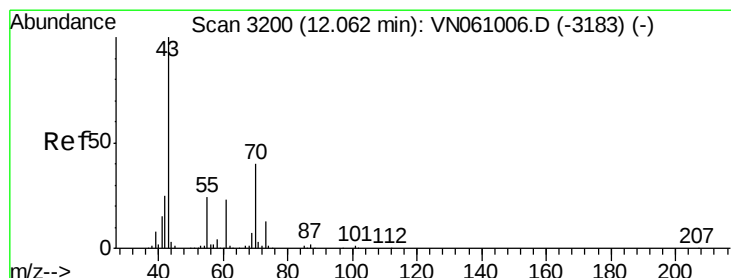
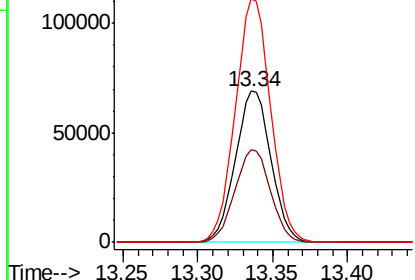
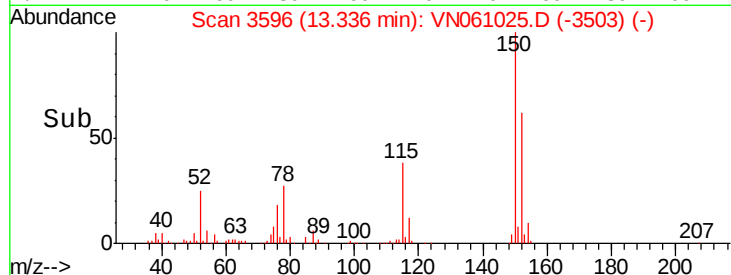
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Instrument :
MSVOA_N
ClientSampleId :
GLOUCESTER-SP

Tot Ion:152 Resp: 114286
Ion Ratio Lower Upper
152 100
115 61.4 30.8 92.4
150 159.9 0.0 349.0



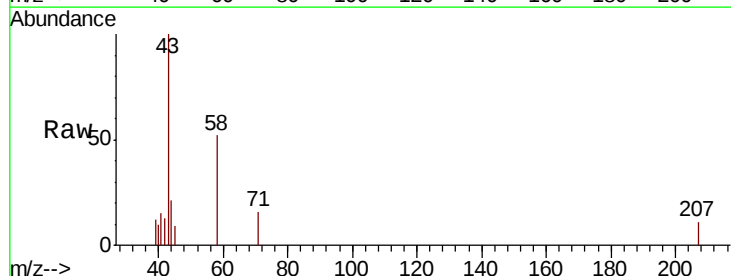
Abundance Ion 151.90 (151.60 to 152.60): V
150000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



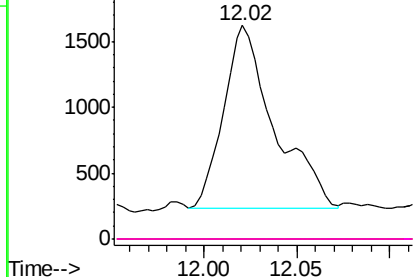
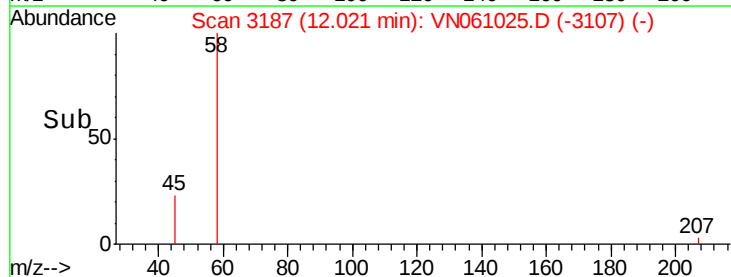
#74

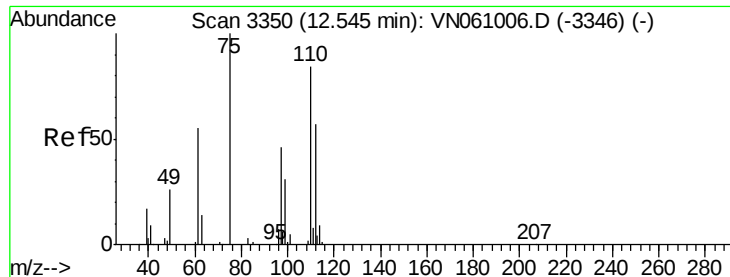
N-ethyl acetate
Concen: 0.621 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN061025.D
Acq: 16 Apr 2020 20:28

Tgt Ion: 43 Resp: 2644
Ion Ratio Lower Upper
43 100
70 0.0 31.0 46.6#
55 0.0 18.6 27.8#
61 0.0 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): V
2500 Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.037 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Instrument :

MSVOA_N

ClientSampleId :

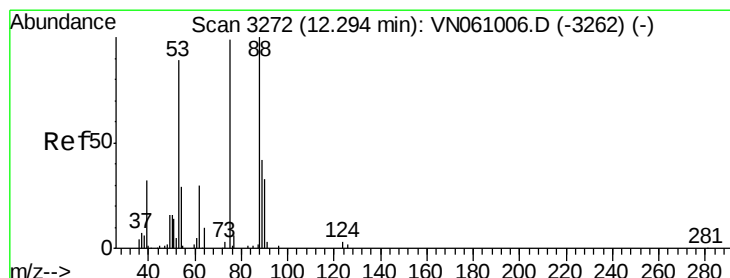
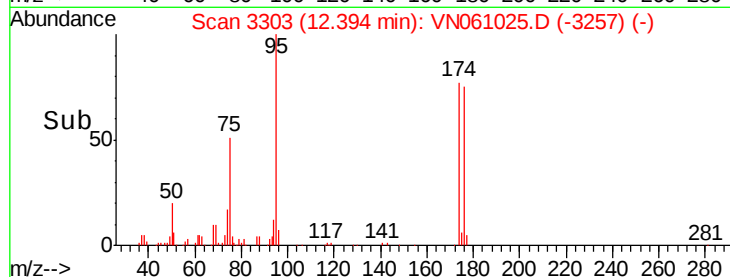
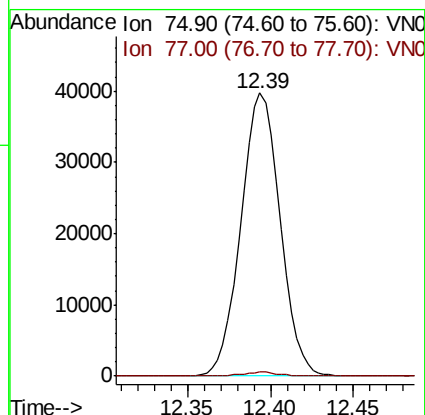
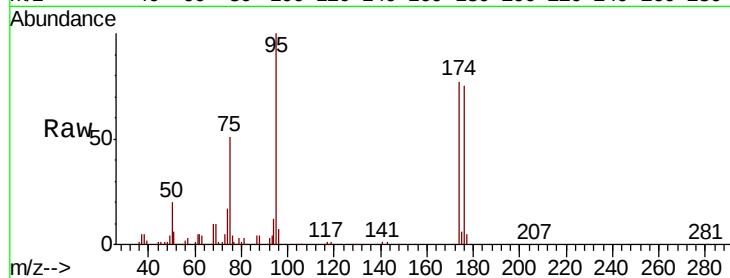
GLOUCESTER-SP

Tot Ion: 75 Resp: 65453

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.223 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061025.D

Acq: 16 Apr 2020 20:28

Tgt Ion: 75 Resp: 65453

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#

