

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061023.D
 Acq On : 16 Apr 2020 19:43
 Operator : JC/MD
 Sample : L2284-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 17 04:00:51 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	175732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	296211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	274660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120383	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	116627	51.87	ug/l	0.00
Spiked Amount						
			Recovery	=	103.74%	
35) Dibromofluoromethane	7.56	113	88214	51.00	ug/l	0.00
Spiked Amount						
			Recovery	=	102.00%	
50) Toluene-d8	10.08	98	366198	56.02	ug/l	0.00
Spiked Amount						
			Recovery	=	112.04%	
62) 4-Bromofluorobenzene	12.39	95	134032	52.32	ug/l	0.00
Spiked Amount						
			Recovery	=	104.64%	

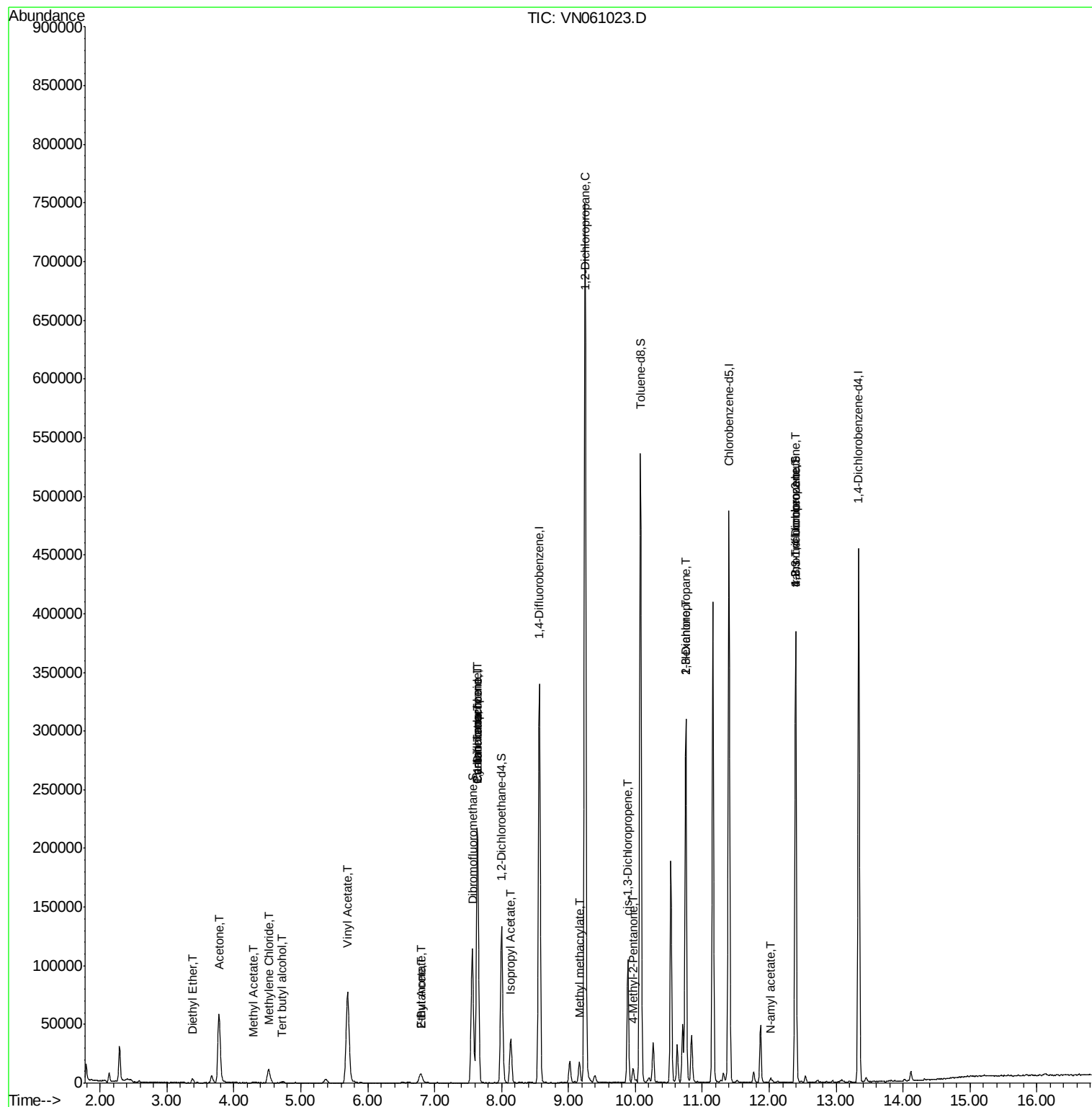
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	1720	1.342	ug/l	91
11) Tert butyl alcohol	4.73	59	2379	5.964	ug/l #	73
16) Acetone	3.78	43	101441	102.504	ug/l	100
18) Methyl Acetate	4.29	43	1736	0.559	ug/l #	54
20) Methylene Chloride	4.52	84	9358	4.331	ug/l	96
23) Vinyl Acetate	5.69	43	1650	0.278	ug/l #	75
25) 2-Butanone	6.80	43	13802	9.101	ug/l	99
31) Cyclohexane	7.64	56	3843	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14097	4.612	ug/l #	50
37) Ethyl Acetate	6.80	43	13802	4.158	ug/l #	69
38) Carbon Tetrachloride	7.64	117	16873	6.632	ug/l #	15
43) Isopropyl Acetate	8.14	43	45328	8.397	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	841	0.343	ug/l #	43
48) Methyl methacrylate	9.16	41	2816	1.180	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8585	2.759	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	18362	4.856	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2921	0.795	ug/l #	43
59) 2-Hexanone	10.75	43	48033	21.404	ug/l #	53
74) N-amyl acetate	12.02	43	2915	0.650	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	68573	25.897	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	68573	63.877	ug/l #	12

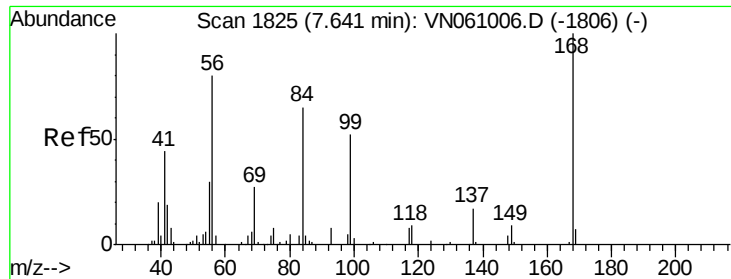
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

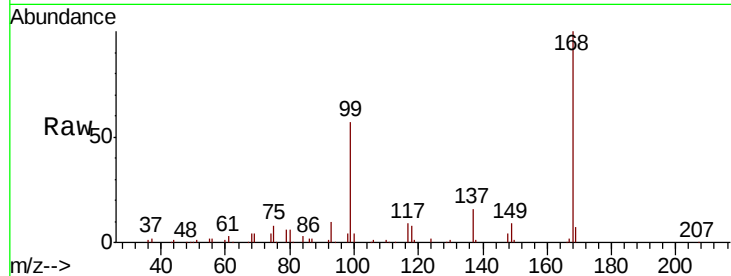
ClientSampleId :

Tot Ion:168 Resp: 175732

Ion Ratio Lower Upper

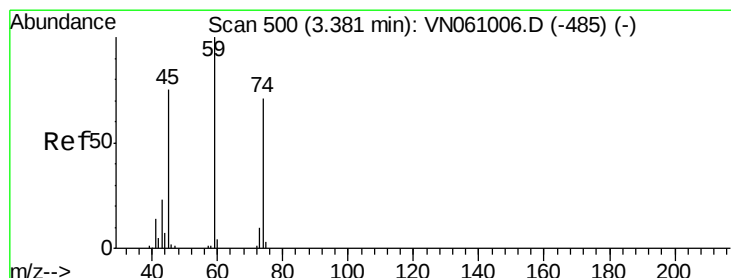
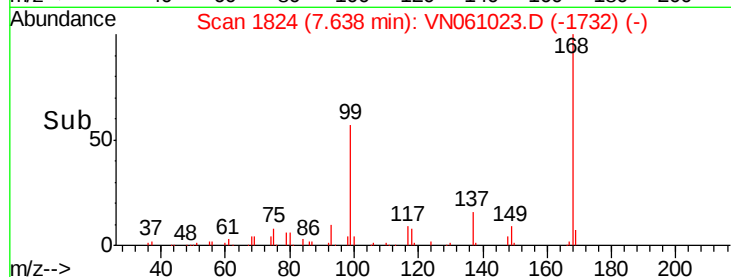
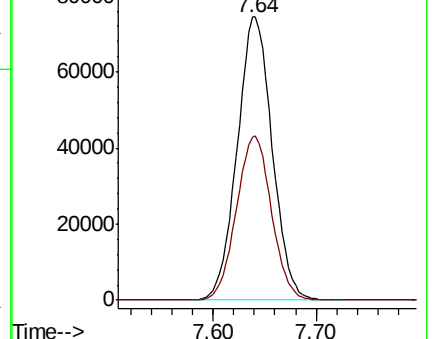
168 100

99 57.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#8

Diethyl Ether

Concen: 1.342 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.00 min

Lab File: VN061023.D

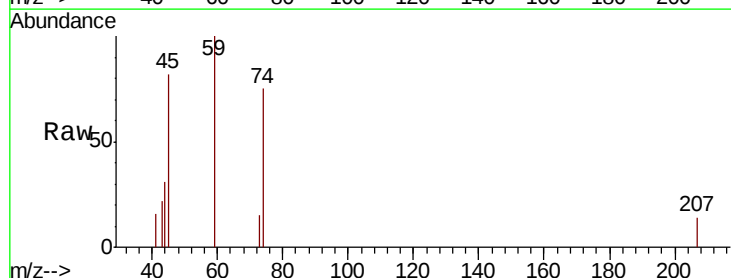
Acq: 16 Apr 2020 19:43

Tgt Ion: 74 Resp: 1720

Ion Ratio Lower Upper

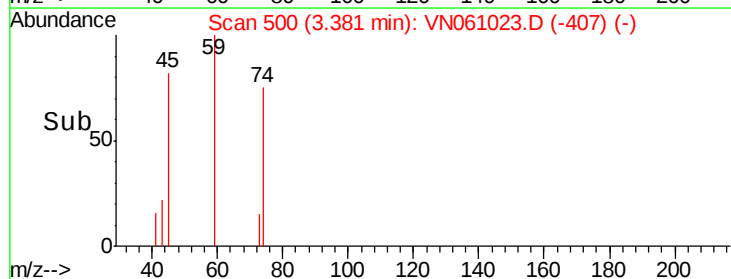
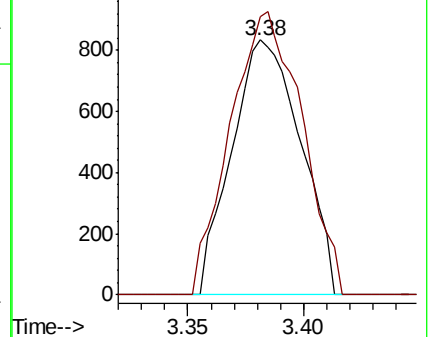
74 100

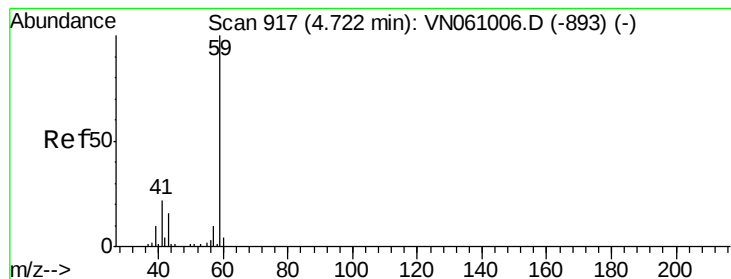
45 115.5 52.9 158.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



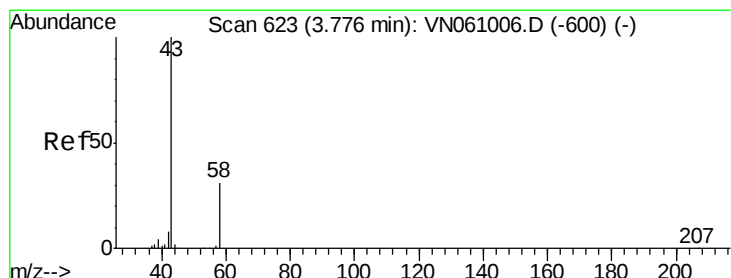
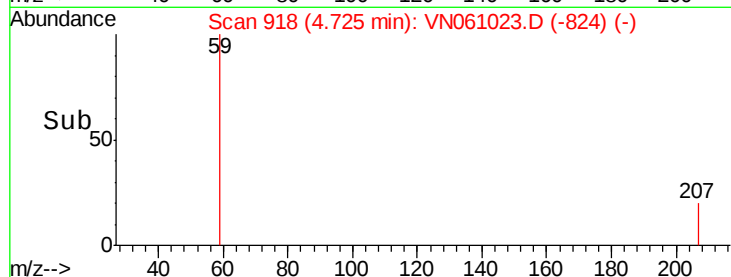
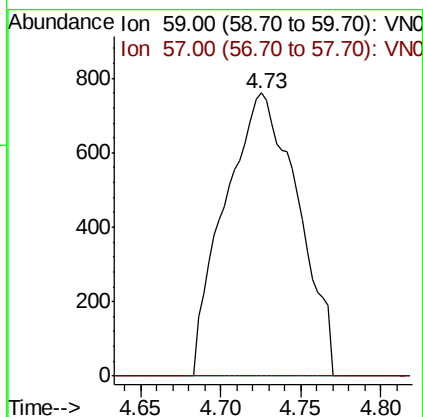
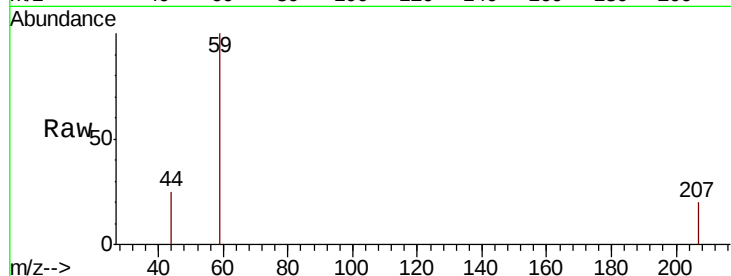


#11

Tert butyl alcohol
 Concen: 5.964 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Instrument :
 MSVOA_N
 ClientSampled :

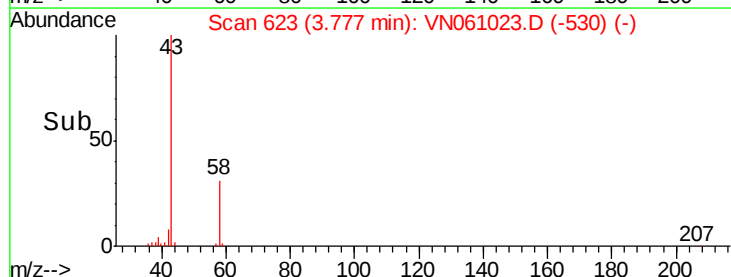
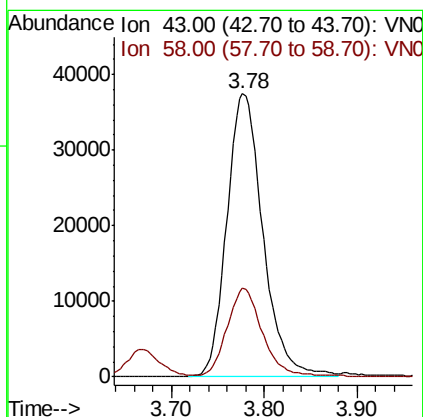
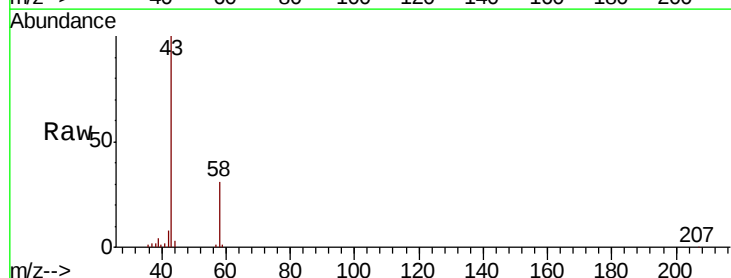
Tot Ion: 59 Resp: 2379
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

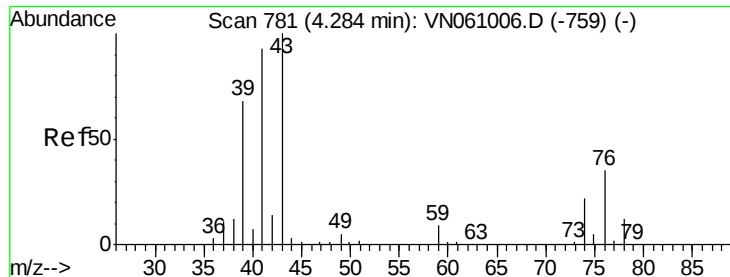


#16

Acetone
 Concen: 102.504 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 101441
 Ion Ratio Lower Upper
 43 100
 58 30.6 24.6 37.0

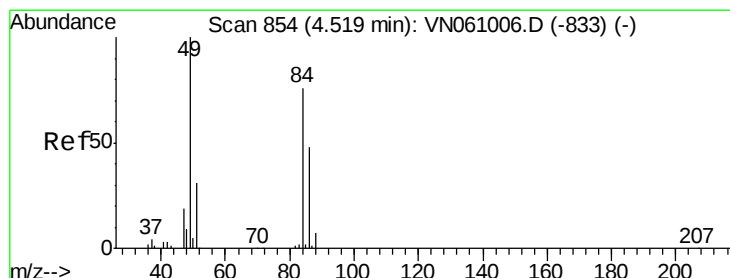
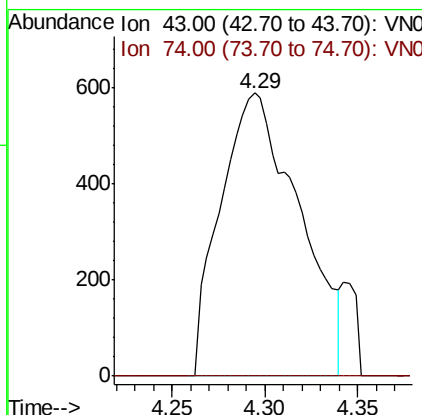
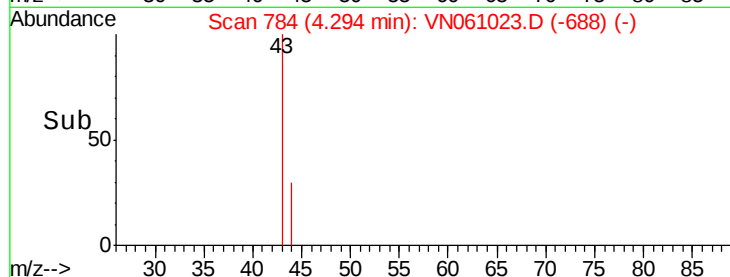
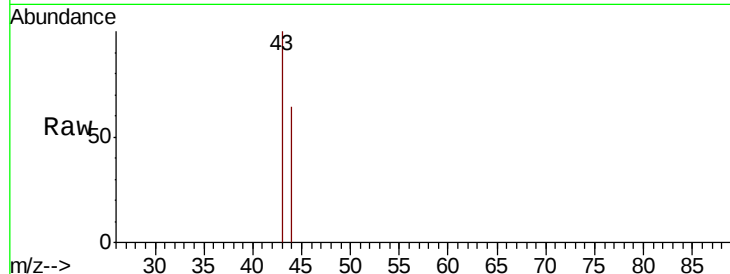




#18
Methvl Acetate
Concen: 0.559 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

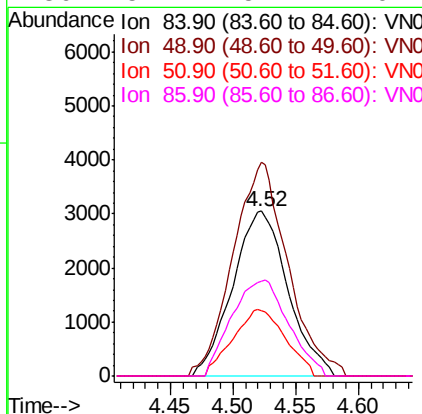
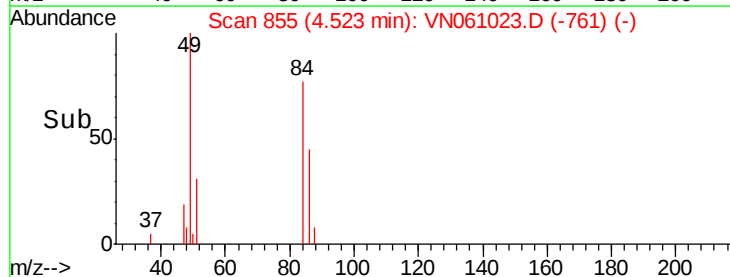
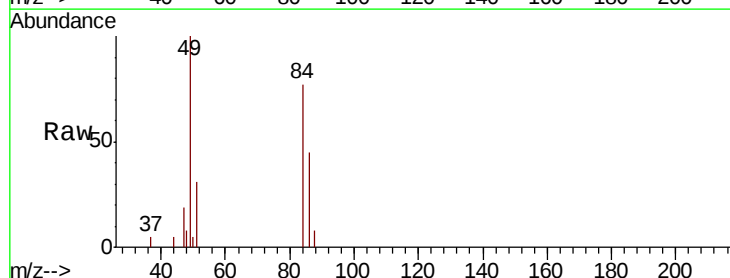
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MSVOA_N
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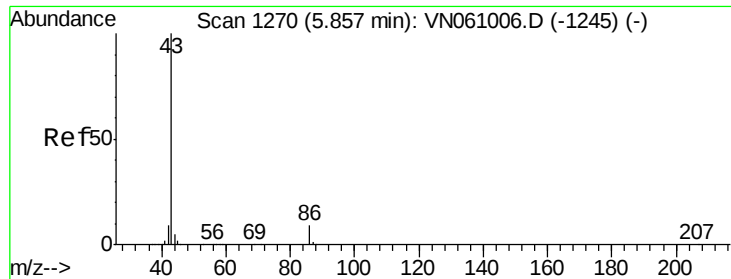
Tot Ion: 43 Resp: 1736
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 4.331 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 84 Resp: 9358
Ion Ratio Lower Upper
84 100
49 129.5 105.8 158.6
51 39.9 32.4 48.6
86 57.7 51.1 76.7

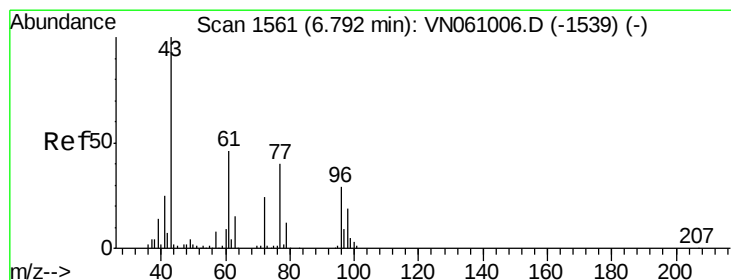
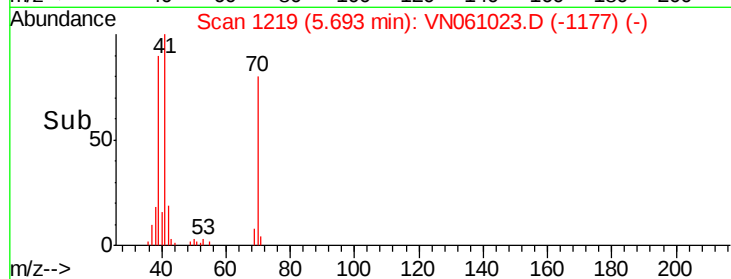
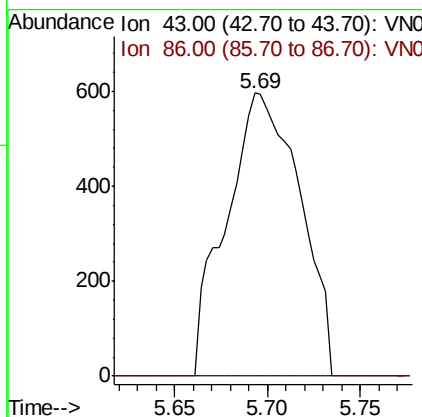
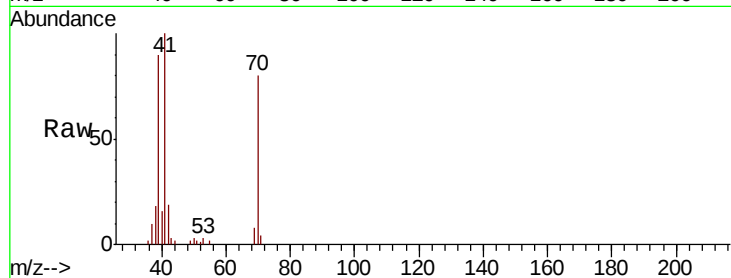




#23
 Vinyl Acetate
 Concen: 0.278 ug/l
 RT: 5.69 min Scan# 1219
 Delta R.T. -0.16 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

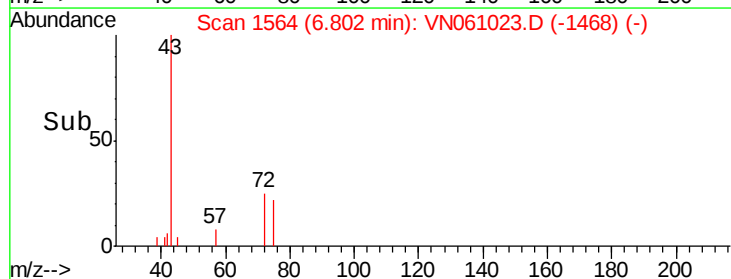
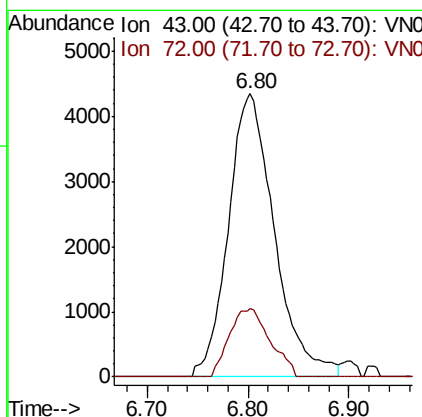
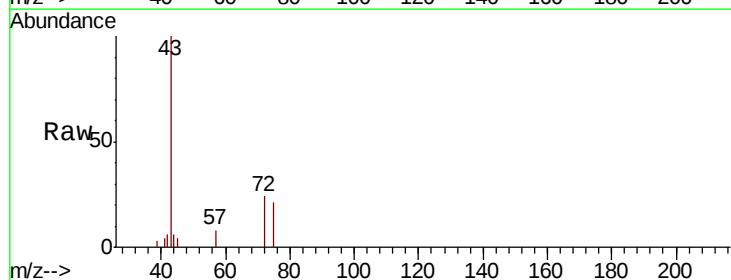
Instrument :
 MSVOA_N
 ClientSampleId :

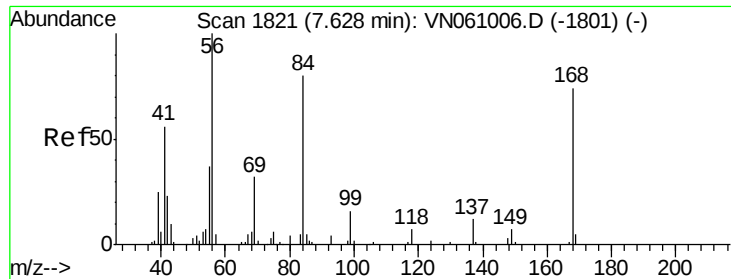
Tot Ion: 43 Resp: 1650
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.3 10.9#



#25
 2-Butanone
 Concen: 9.101 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. 0.01 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 13802
 Ion Ratio Lower Upper
 43 100
 72 24.1 19.6 29.4

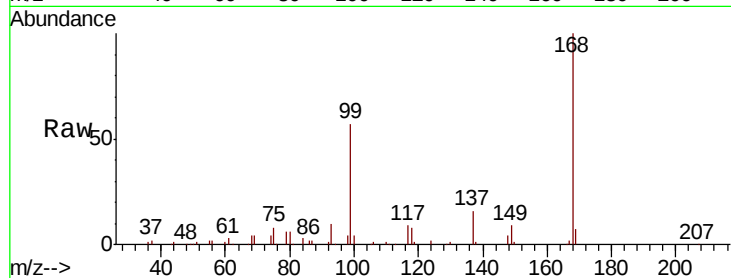




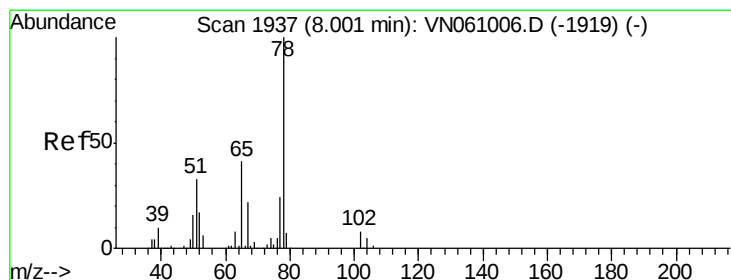
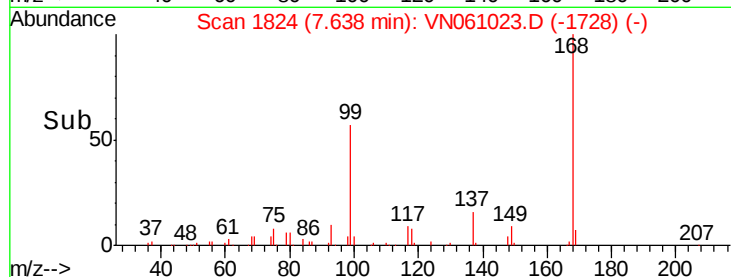
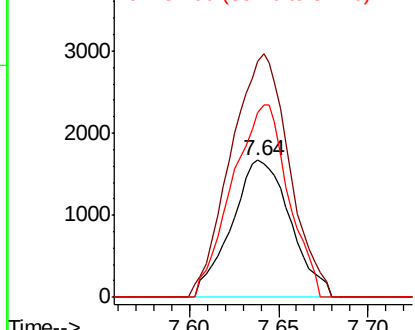
#31
Cyclohexane
Concen: 0.918 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3843
Ion Ratio Lower Upper
56 100
69 172.6 25.6 38.4#
84 135.4 63.4 95.2#

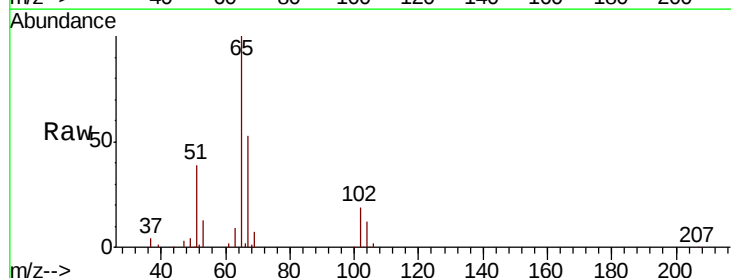


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

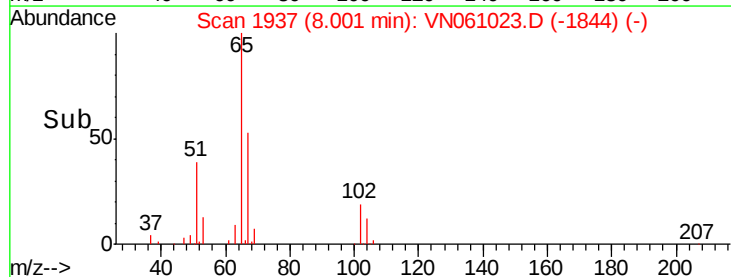
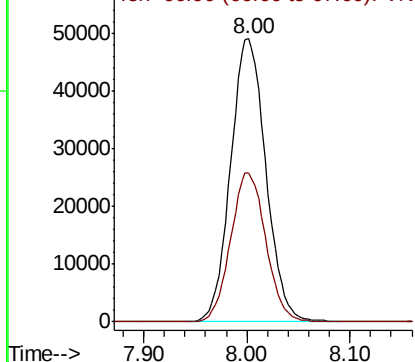


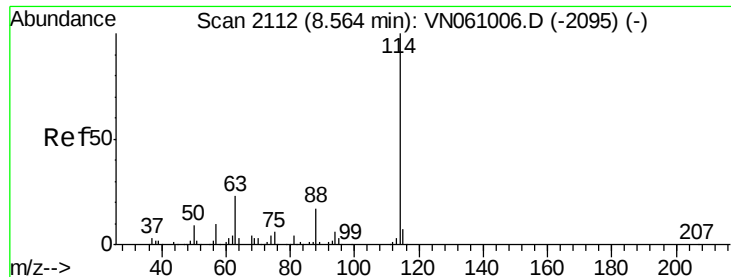
#33
1,2-Dichloroethane-d4
Concen: 51.872 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 65 Resp: 116627
Ion Ratio Lower Upper
65 100
67 52.5 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

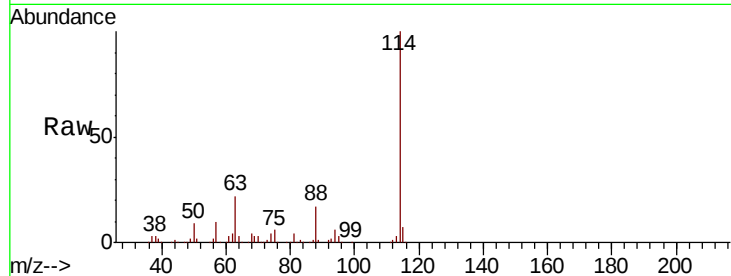




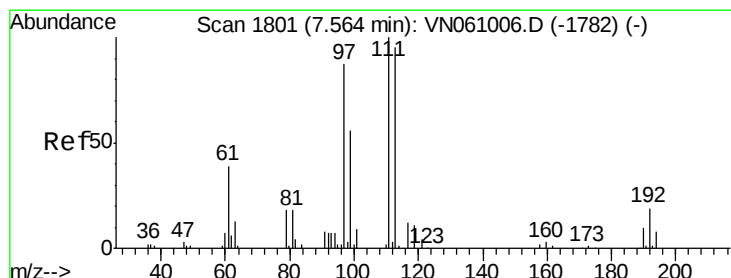
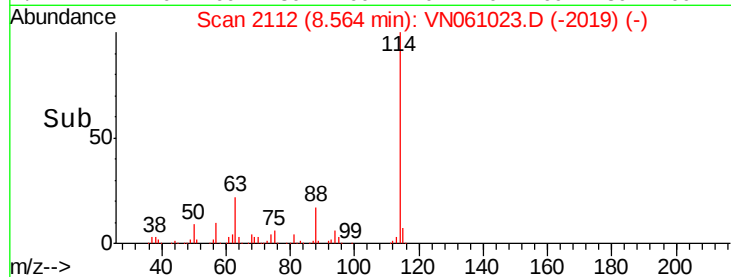
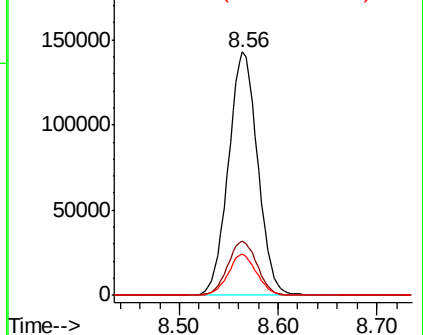
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114	Resp:	296211
Ion	Ratio	Lower Upper
114	100	
63	22.0	0.0 46.2
88	16.9	0.0 33.4

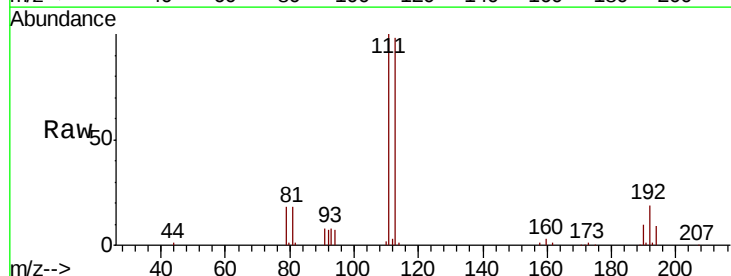


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

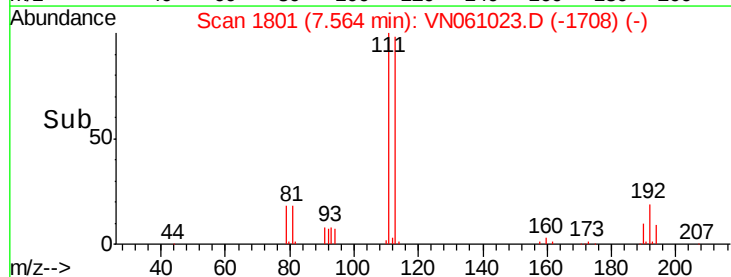
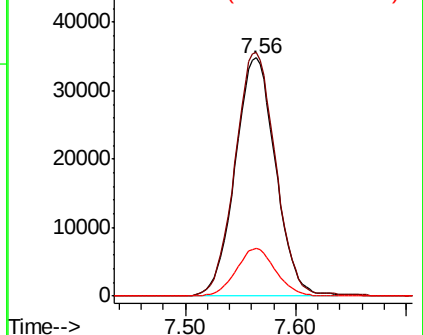


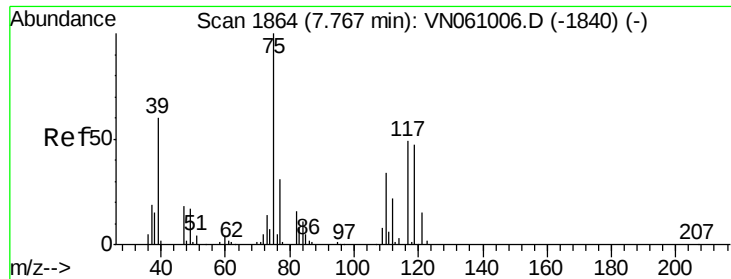
#35
 Dibromofluoromethane
 Concen: 50.996 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion:113	Resp:	88214
Ion	Ratio	Lower Upper
113	100	
111	102.2	83.4 125.2
192	19.5	15.5 23.3



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

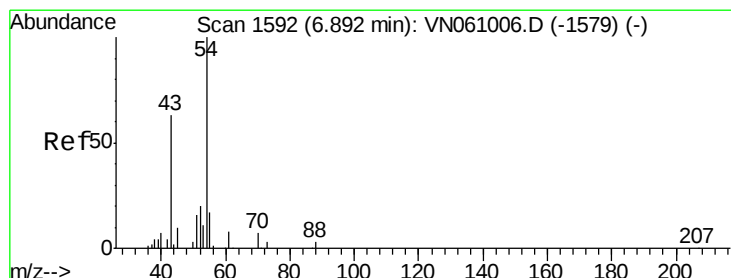
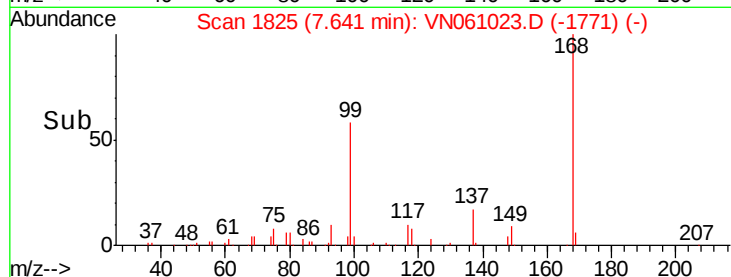
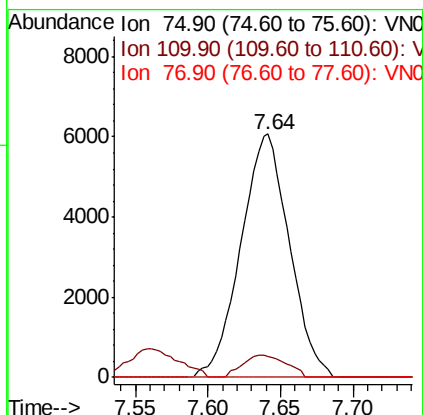
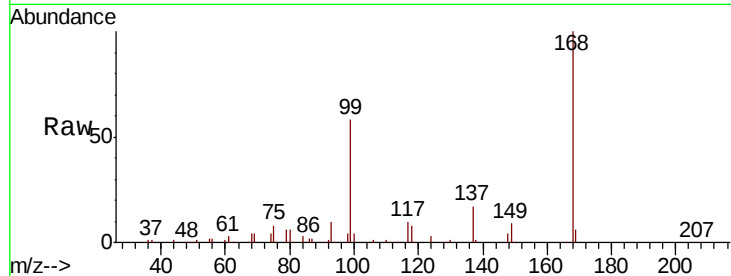




#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

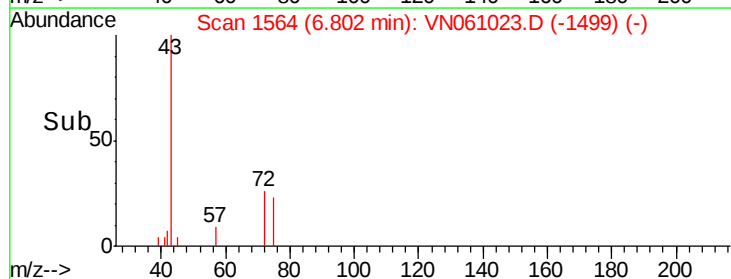
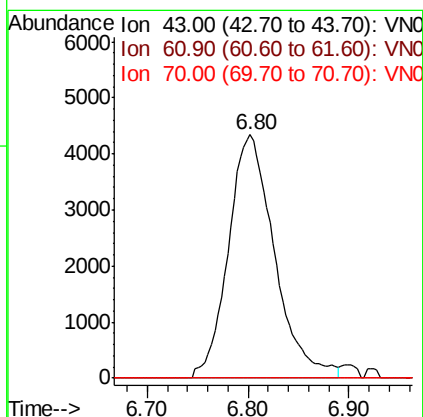
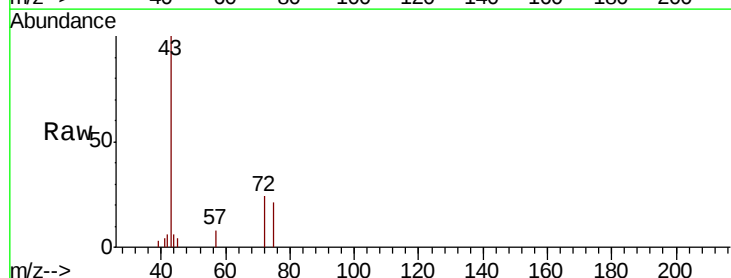
Instrument :
 MSVOA_N
 ClientSampleId :

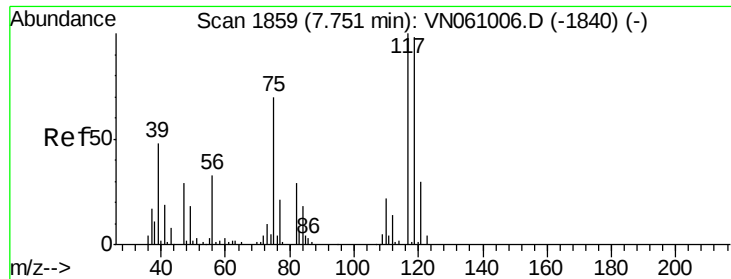
Tot Ion	75	Resp	14097
Ion Ratio	100	Lower	Upper
75	100		
110	8.2	16.8	50.3#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 4.158 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion	43	Resp	13802
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	7.7	11.5#

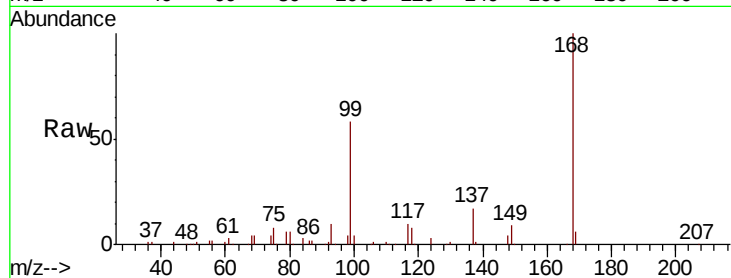




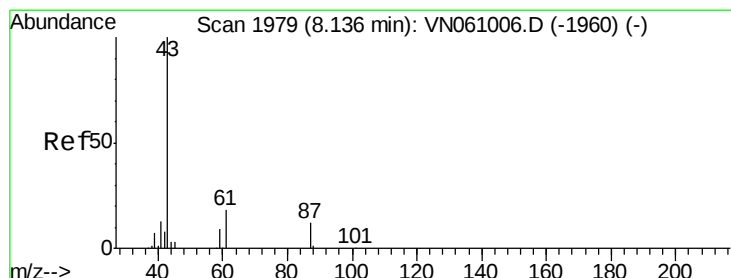
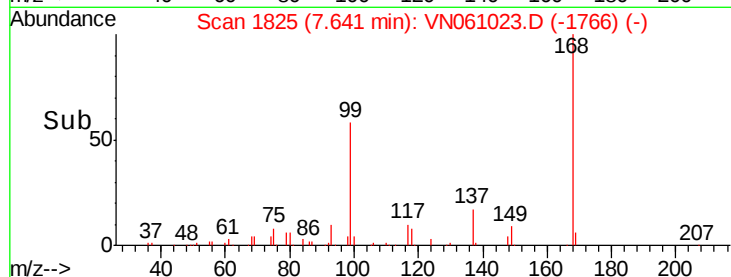
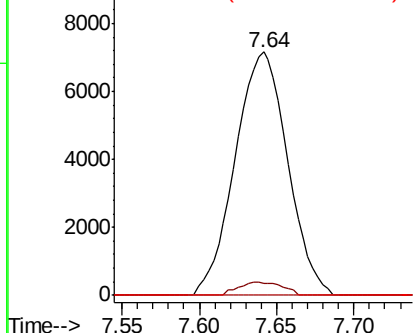
#38
Carbon Tetrachloride
Concen: 6.632 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 16873
Ion Ratio Lower Upper
117 100
119 4.8 78.1 117.1#
121 0.0 24.0 36.0#

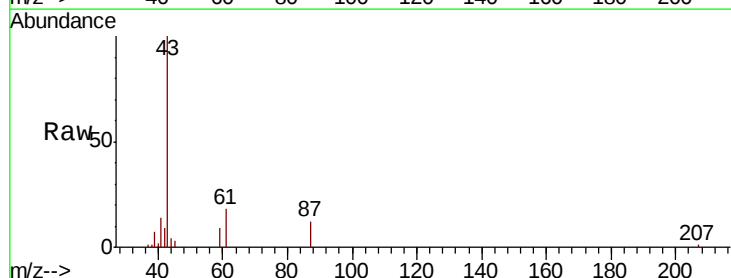


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

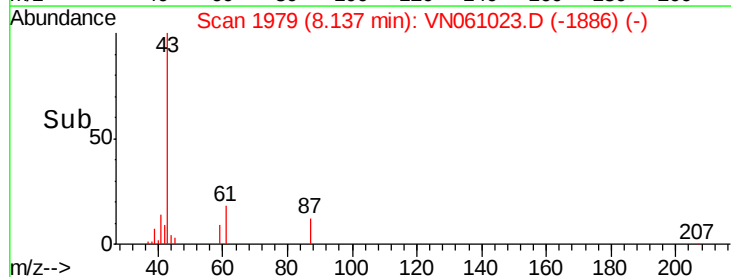
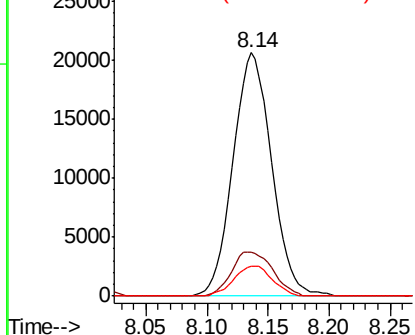


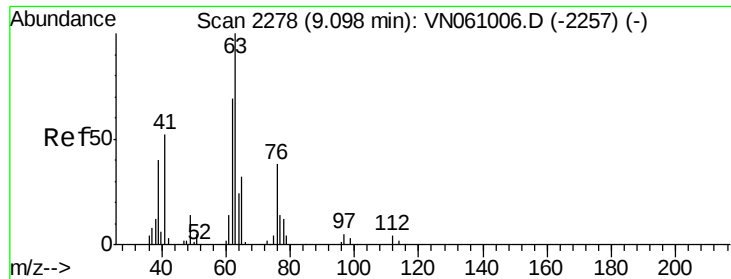
#43
Isopropyl Acetate
Concen: 8.397 ug/l
RT: 8.14 min Scan# 1979
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 45328
Ion Ratio Lower Upper
43 100
61 19.3 20.3 30.5#
87 12.2 9.4 14.2



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: 0.343 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

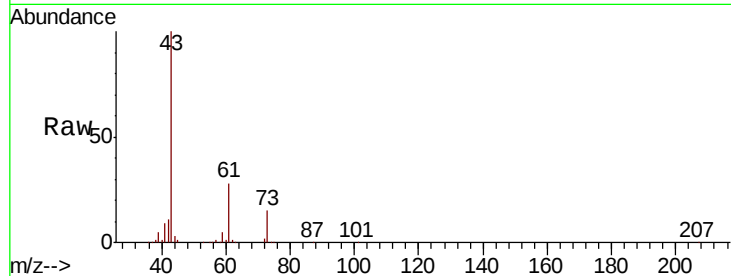
ClientSampled :

Tot Ion: 63 Resp: 841

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

500

400

300

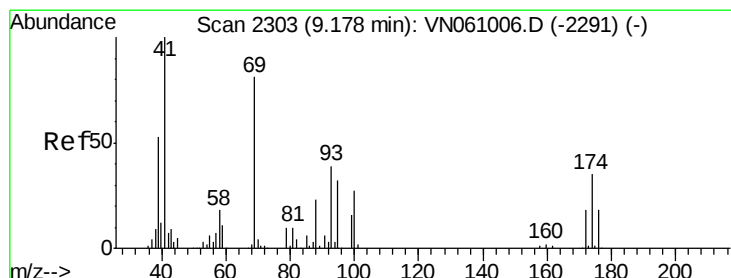
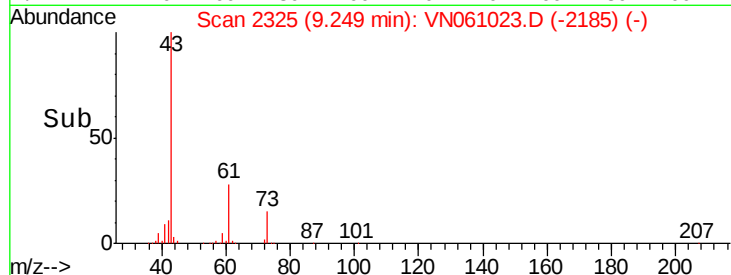
200

100

0

9.20 9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.180 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.02 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

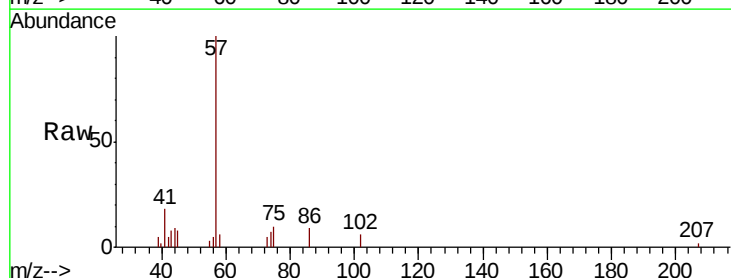
Tgt Ion: 41 Resp: 2816

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

20000

15000

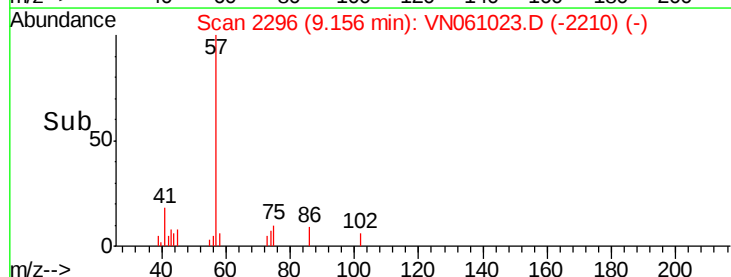
10000

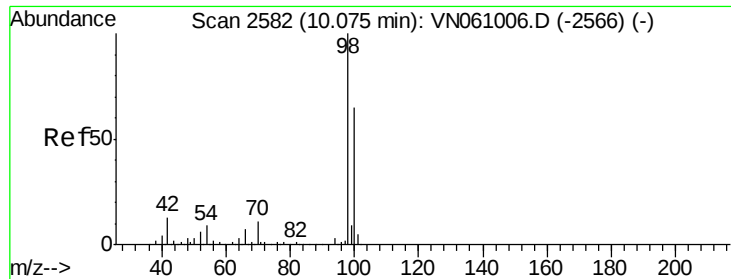
5000

0

9.10 9.15 9.20

Time-->

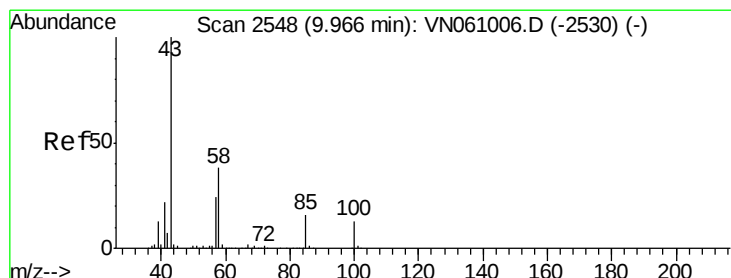
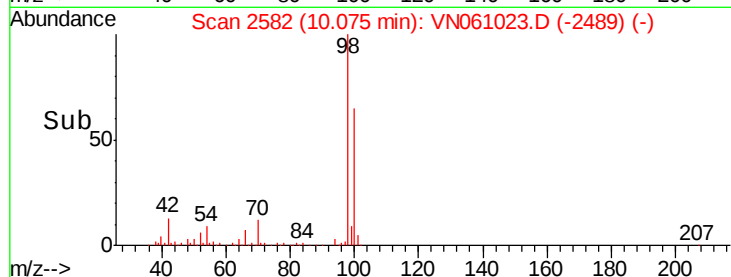
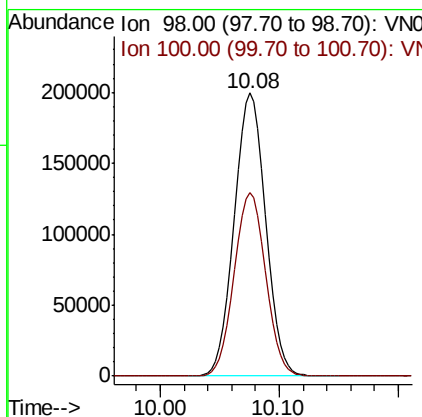
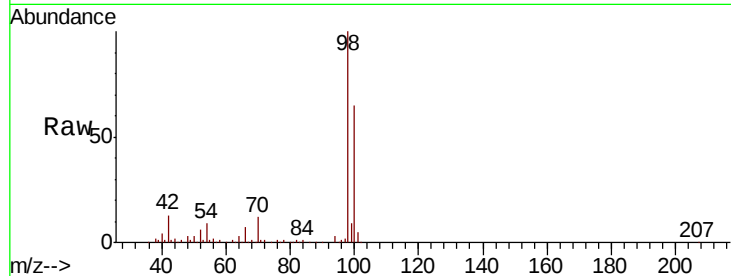




#50
Toluene-d8
Concen: 56.022 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

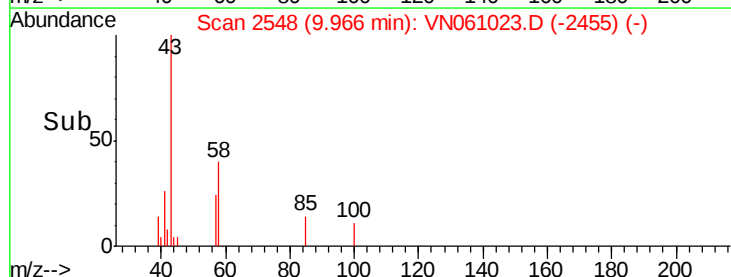
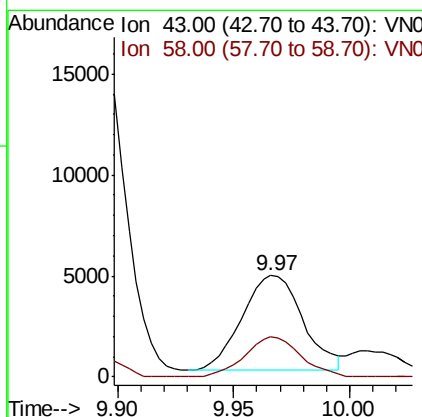
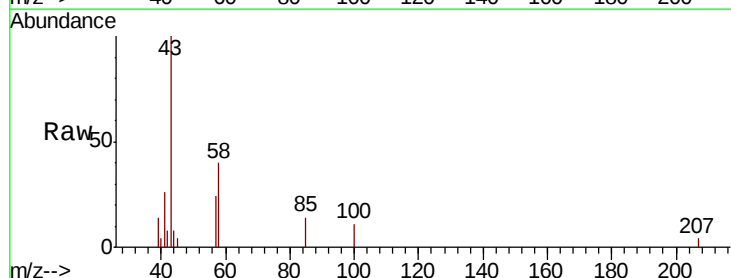
Instrument :
MSVOA_N
ClientSampled :

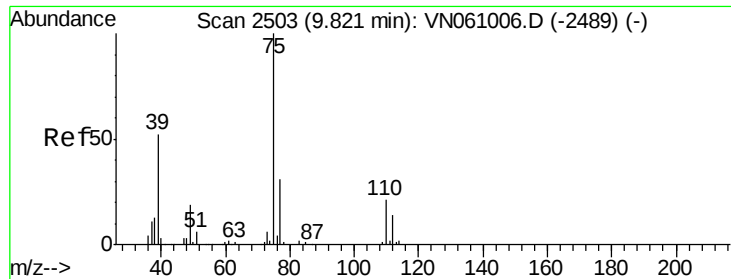
Tot Ion: 98 Resp: 366198
Ion Ratio Lower Upper
98 100
100 65.0 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 2.759 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 8585
Ion Ratio Lower Upper
43 100
58 38.6 30.3 45.5



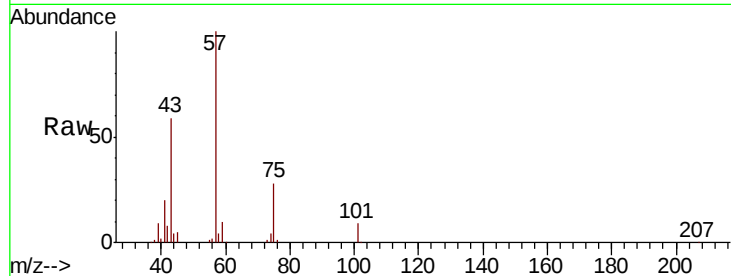


#54

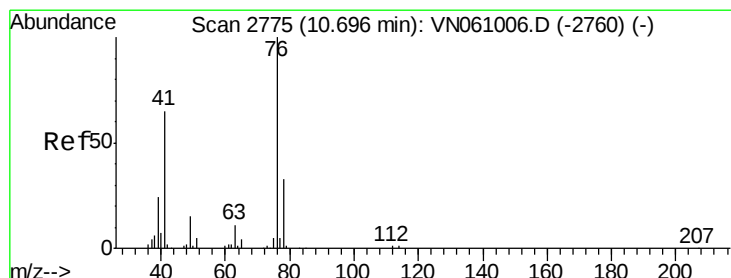
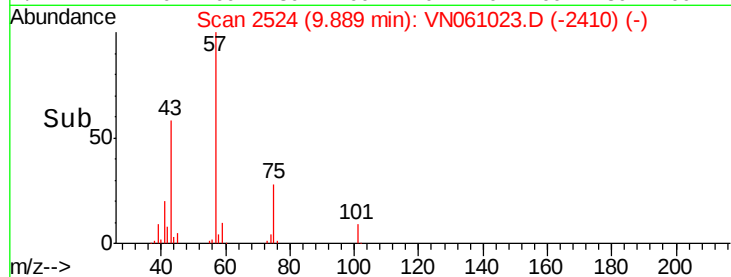
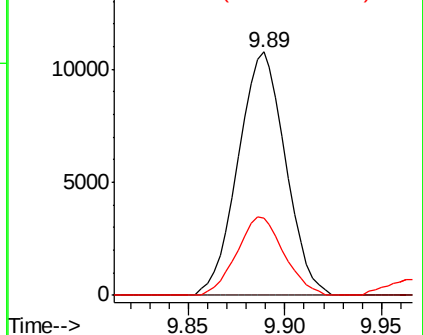
cis-1,3-Dichloropropene
 Concen: 4.856 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.07 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 18362
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 32.0 41.4 62.2#



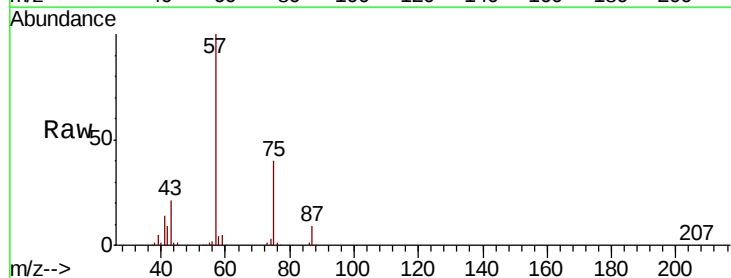
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



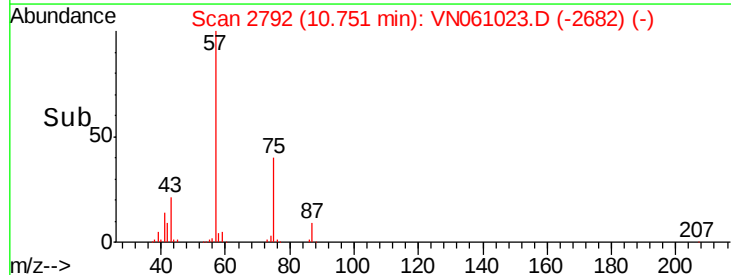
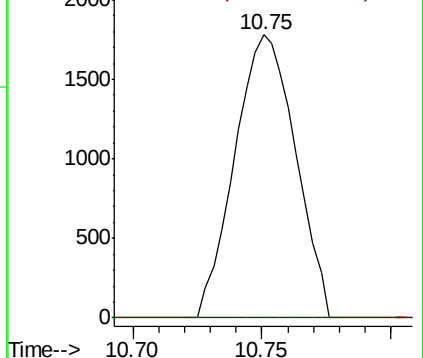
#57

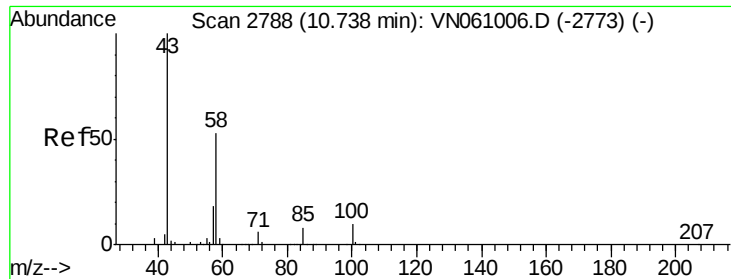
1,3-Dichloropropane
 Concen: 0.795 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion: 76 Resp: 2921
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

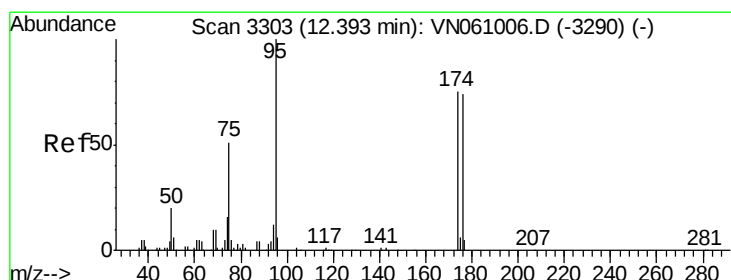
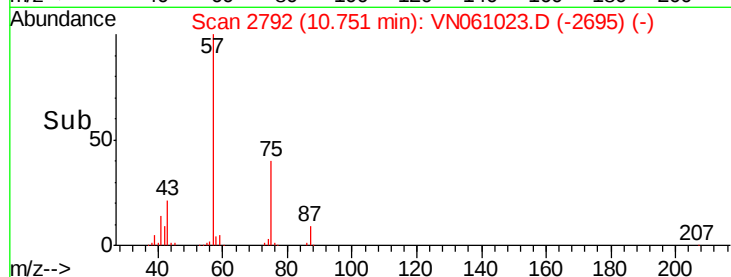
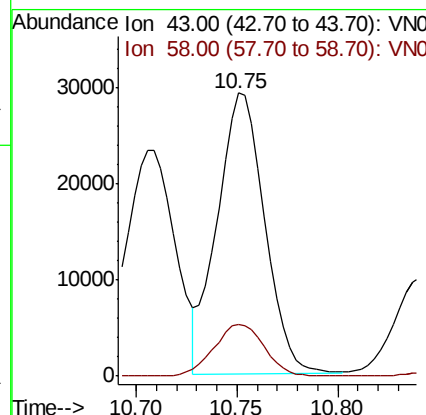
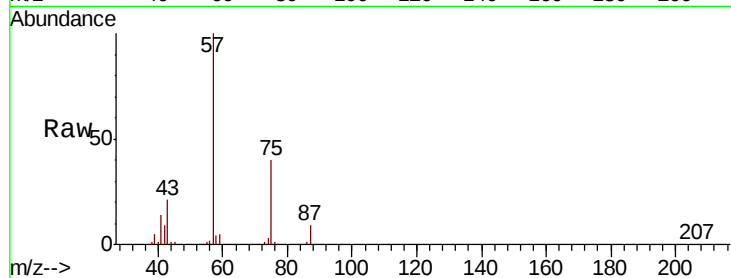




#59
2-Hexanone
Concen: 21.404 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

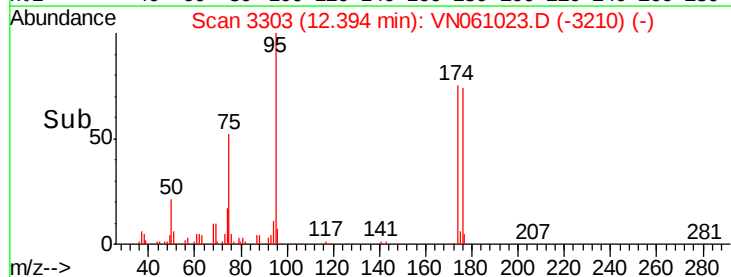
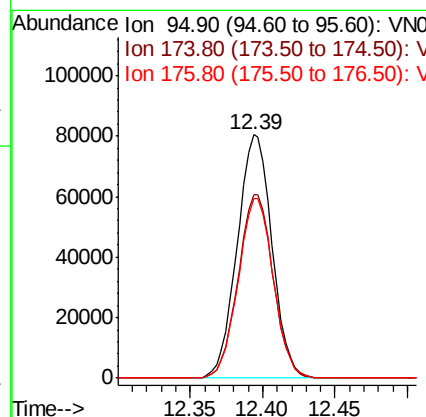
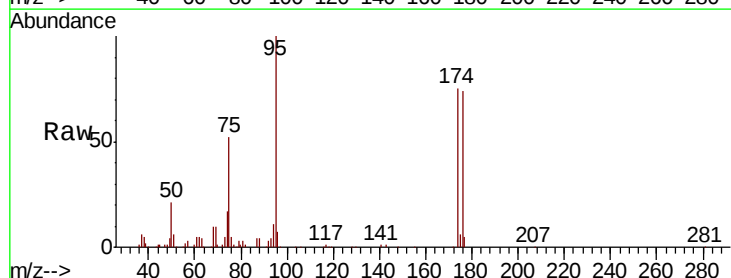
Instrument :
MSVOA_N
ClientSampleId :

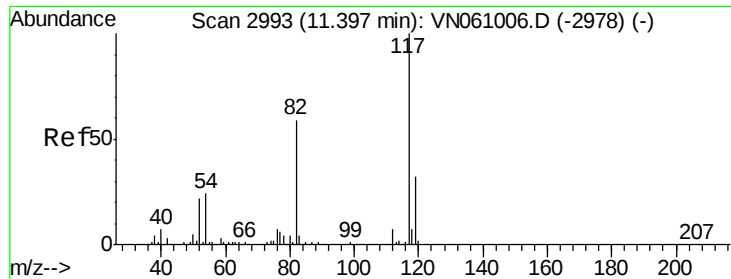
Tot Ion: 43 Resp: 48033
Ion Ratio Lower Upper
43 100
58 19.5 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 52.317 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 95 Resp: 134032
Ion Ratio Lower Upper
95 100
174 75.9 0.0 151.2
176 74.4 0.0 148.2

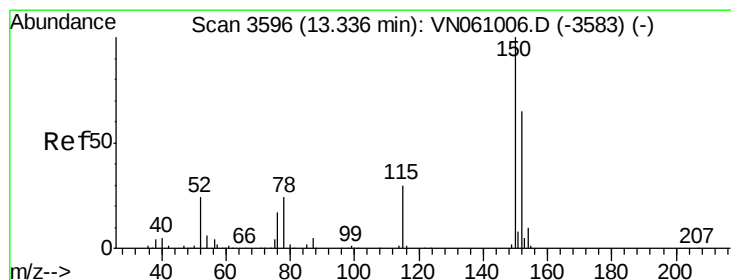
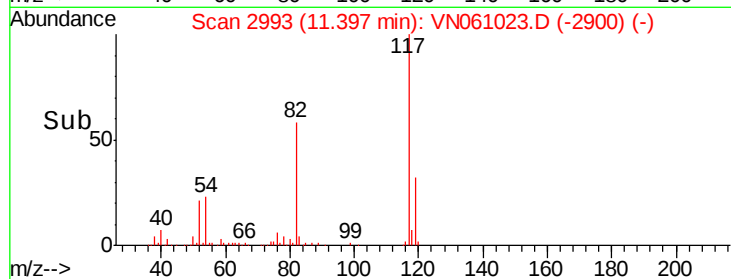
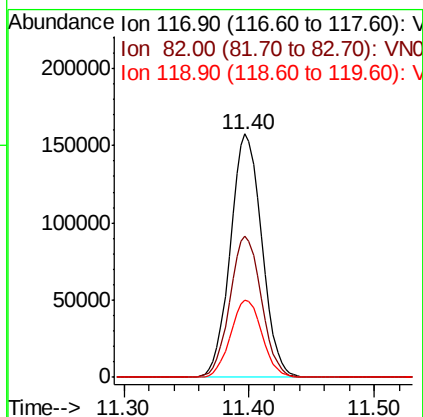
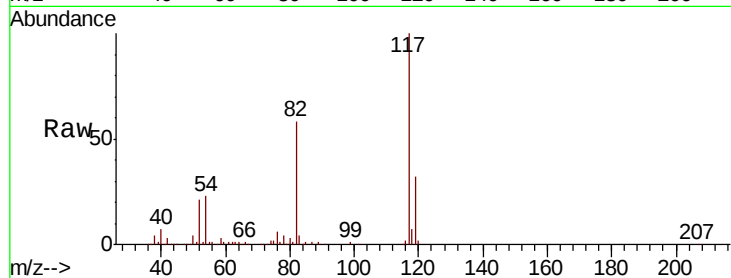




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

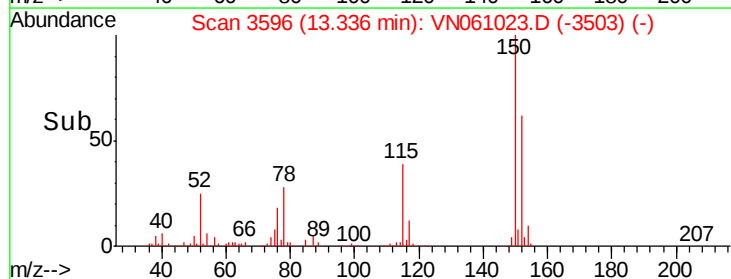
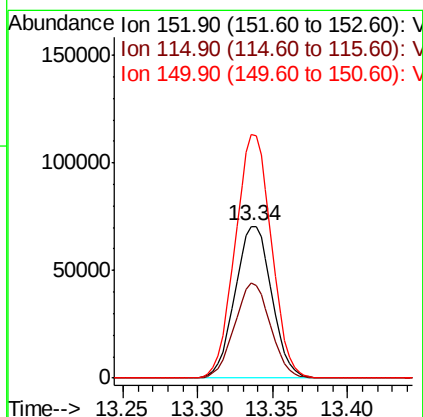
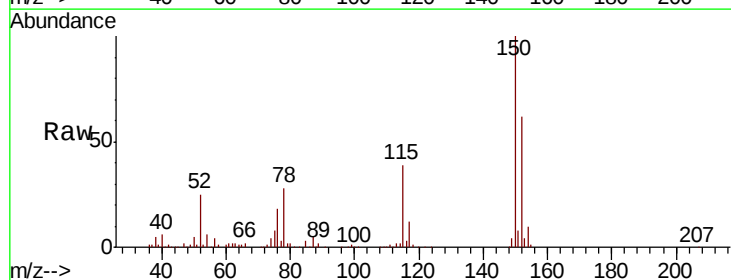
Instrument :
MSVOA_N
ClientSampleId :

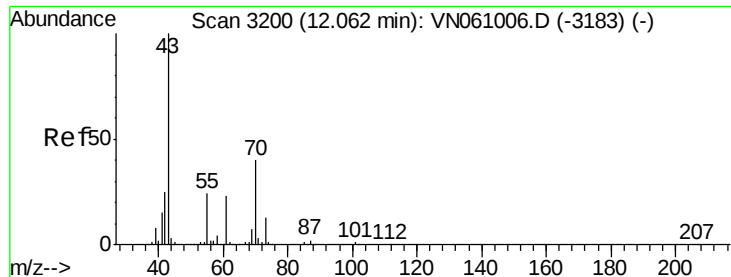
Tot Ion:117 Resp: 274660
Ion Ratio Lower Upper
117 100
82 58.2 47.1 70.7
119 31.9 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion:152 Resp: 120383
Ion Ratio Lower Upper
152 100
115 61.2 30.8 92.4
150 158.5 0.0 349.0





#74

N-amvl acetate

Concen: 0.650 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 2915

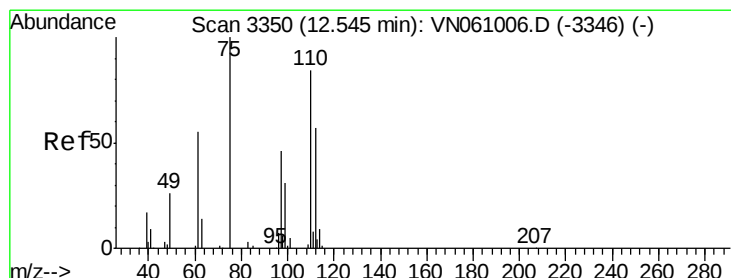
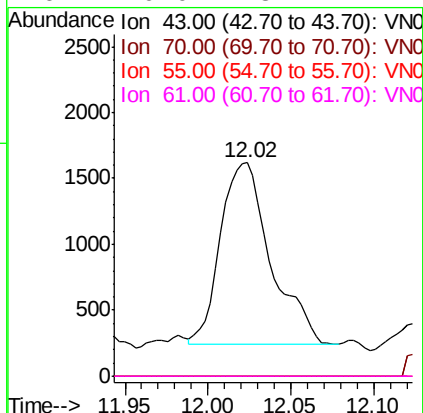
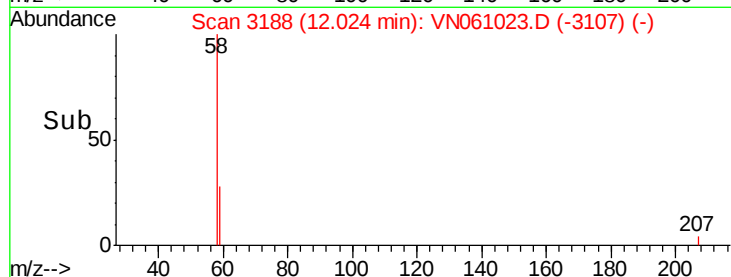
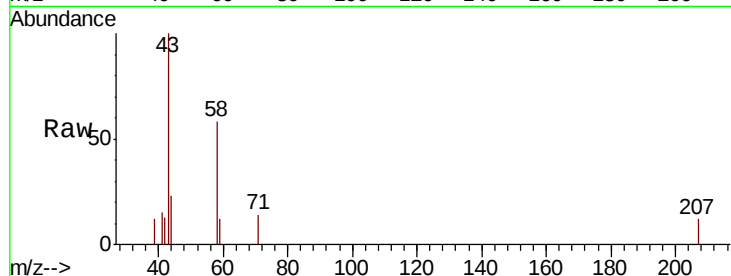
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 0.0 18.6 27.8#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 25.897 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061023.D

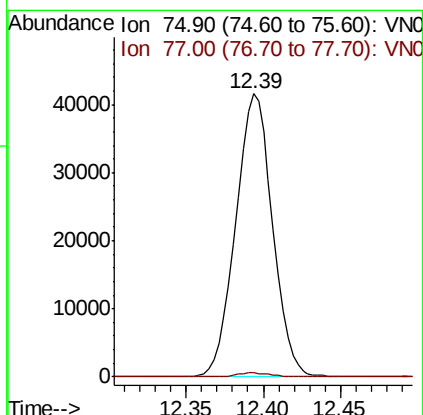
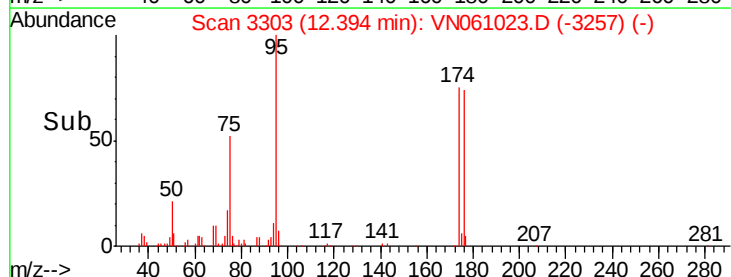
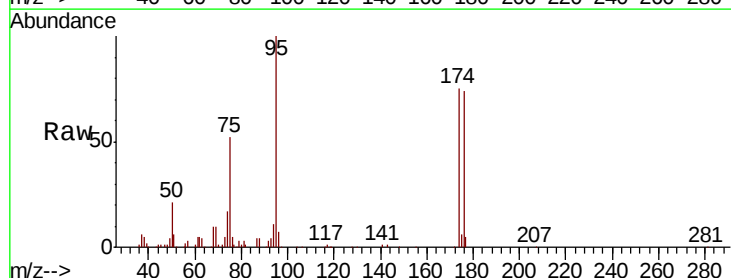
Acq: 16 Apr 2020 19:43

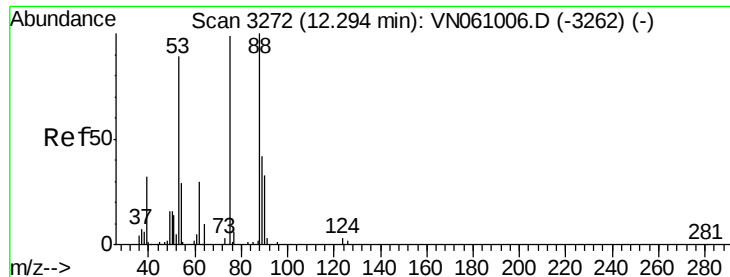
Tgt Ion: 75 Resp: 68573

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.877 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

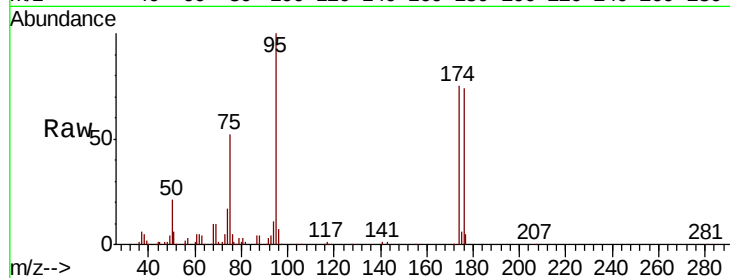
Tot Ion: 75 Resp: 68573

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#



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

