

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061024.D
 Acq On : 16 Apr 2020 20:05
 Operator : JC/MD
 Sample : L2284-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 17 04:01:07 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

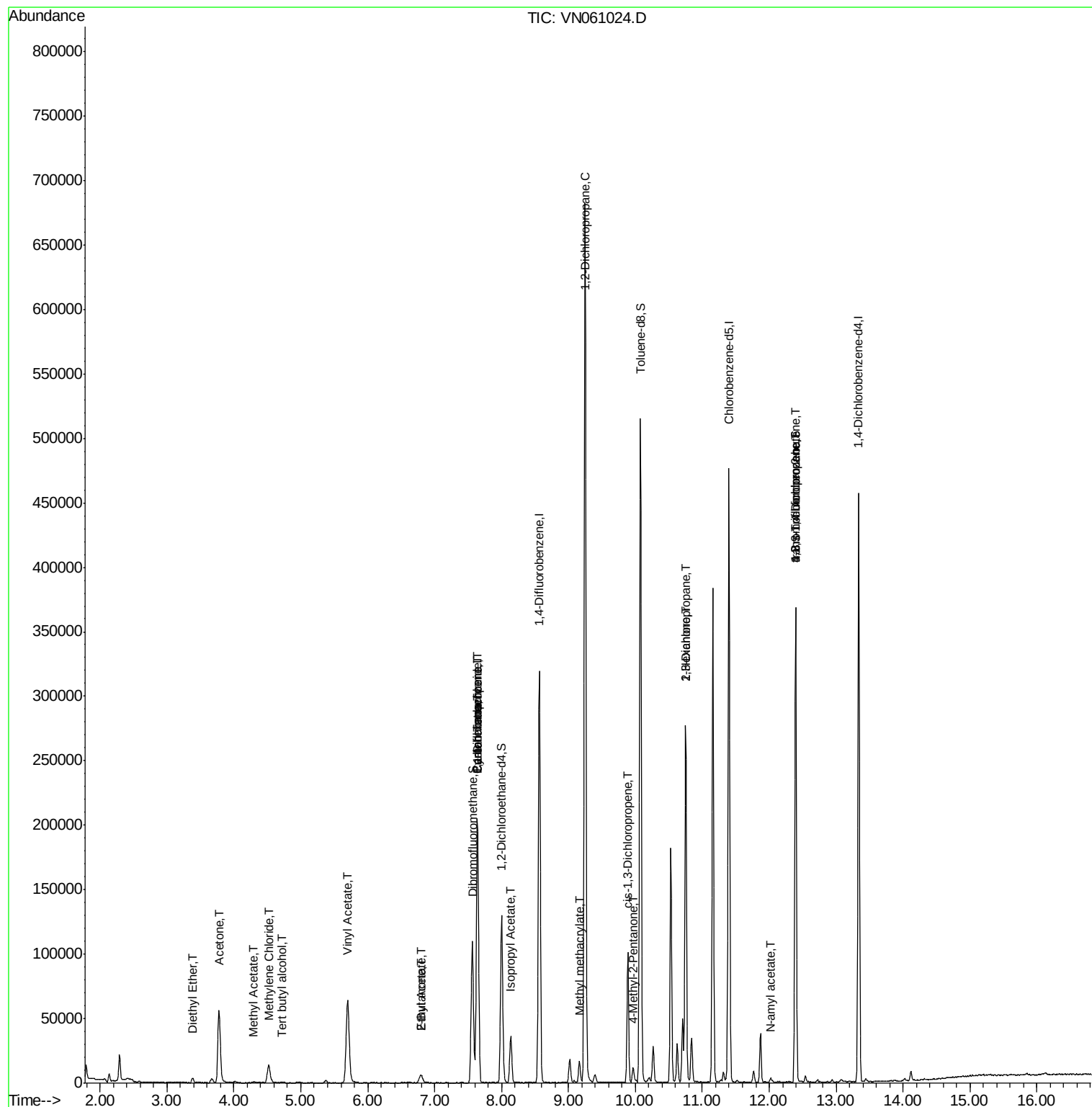
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	164998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	280320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	264820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116557	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	110157	52.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.36%	
35) Dibromofluoromethane	7.56	113	83712	51.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.28%	
50) Toluene-d8	10.08	98	351812	56.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.74%	
62) 4-Bromofluorobenzene	12.39	95	130047	53.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.28%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	1828	1.519	ug/l	97
11) Tert butyl alcohol	4.72	59	2213	5.908	ug/l #	73
16) Acetone	3.78	43	98329	105.824	ug/l	97
18) Methyl Acetate	4.29	43	933	0.320	ug/l #	81
20) Methylene Chloride	4.52	84	11012	5.428	ug/l	92
23) Vinyl Acetate	5.71	43	1375	0.247	ug/l #	75
25) 2-Butanone	6.80	43	11386	7.997	ug/l	100
31) Cyclohexane	7.64	56	3718	0.945	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13114	4.534	ug/l #	50
37) Ethyl Acetate	6.80	43	11386	3.625	ug/l #	69
38) Carbon Tetrachloride	7.64	117	16354	6.792	ug/l #	15
43) Isopropyl Acetate	8.14	43	42957	8.409	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	757	0.327	ug/l #	43
48) Methyl methacrylate	9.16	41	2395	1.061	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8049	2.733	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	18016	5.035	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	2753	0.792	ug/l #	43
59) 2-Hexanone	10.75	43	43407	20.439	ug/l #	54
74) N-amyl acetate	12.02	43	3236	0.745	ug/l #	46
76) 1,2,3-Trichloropropane	12.39	75	66003	25.744	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	66003	63.501	ug/l #	12

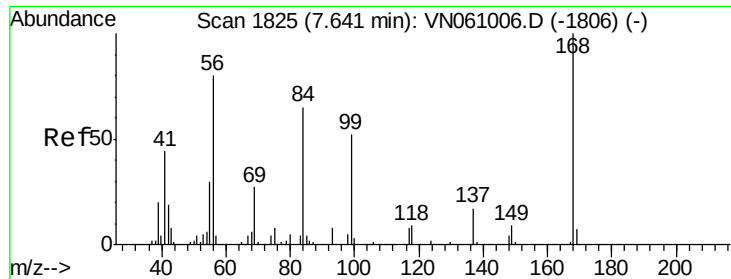
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1825

Delta R.T. 0.00 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

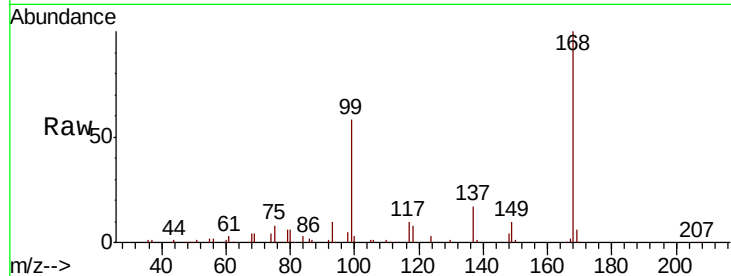
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 164998

Ion Ratio Lower Upper

168 100

99 58.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

60000

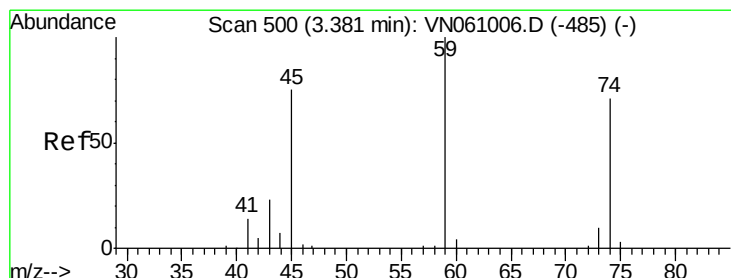
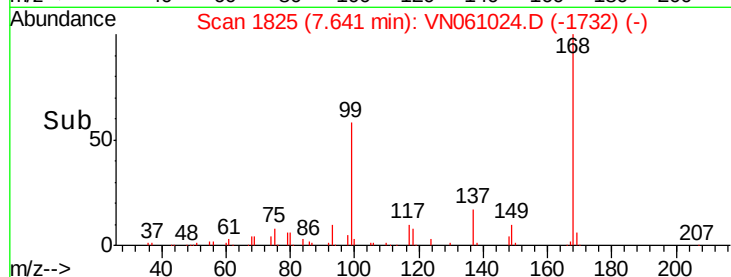
40000

20000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 1.519 ug/l

RT: 3.39 min Scan# 502

Delta R.T. 0.01 min

Lab File: VN061024.D

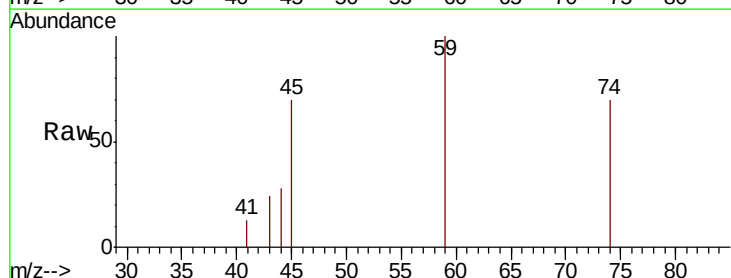
Acq: 16 Apr 2020 20:05

Tgt Ion: 74 Resp: 1828

Ion Ratio Lower Upper

74 100

45 102.4 52.9 158.8



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

1000

800

600

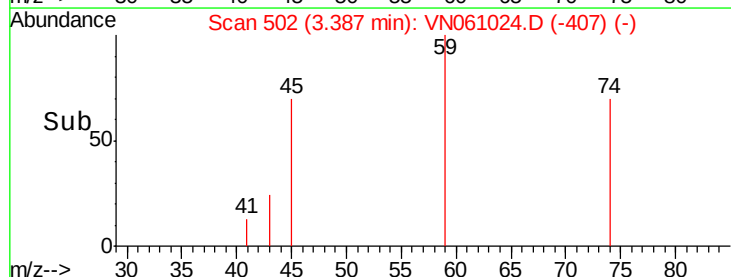
400

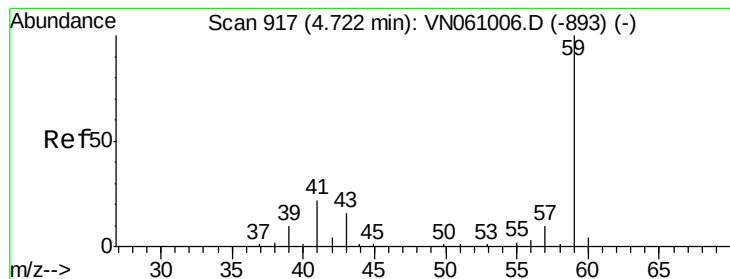
200

0

3.35 3.40

Time-->



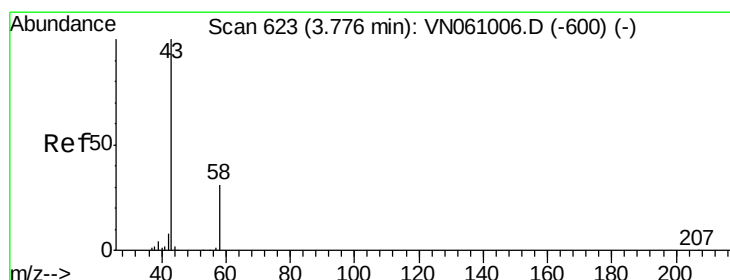
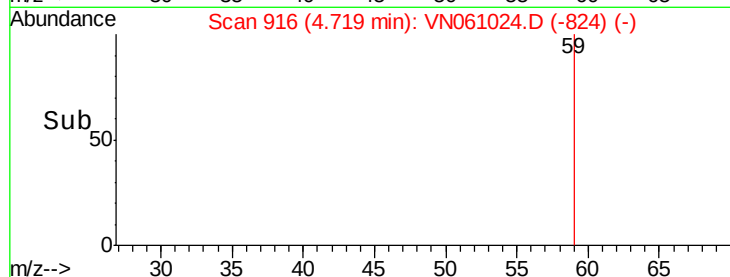
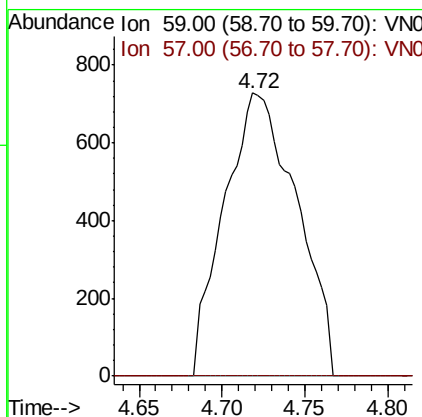
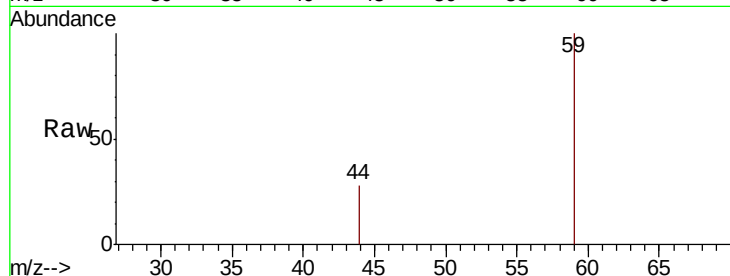


#11

Tert butyl alcohol
 Concen: 5.908 ug/l
 RT: 4.72 min Scan# 916
 Delta R.T. -0.00 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

Instrument :
 MSVOA_N
 ClientSampled :

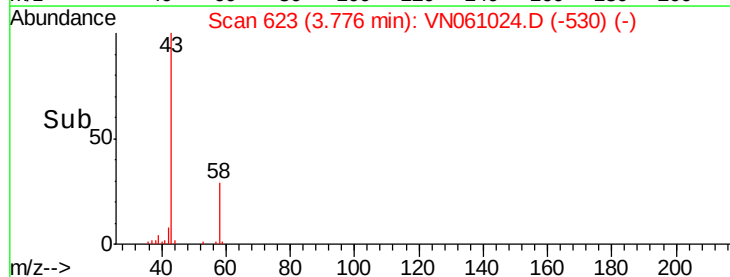
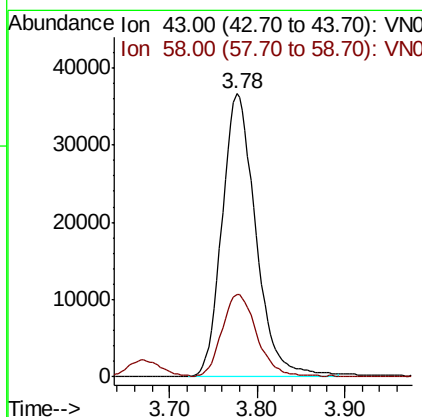
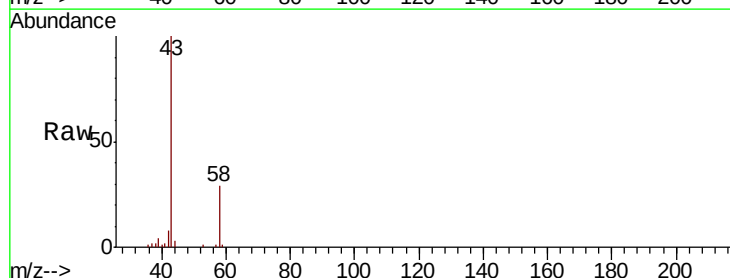
Tot Ion: 59 Resp: 2213
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

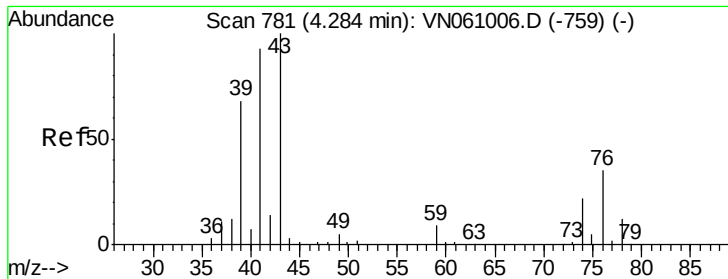


#16

Acetone
 Concen: 105.824 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

Tgt Ion: 43 Resp: 98329
 Ion Ratio Lower Upper
 43 100
 58 29.2 24.6 37.0

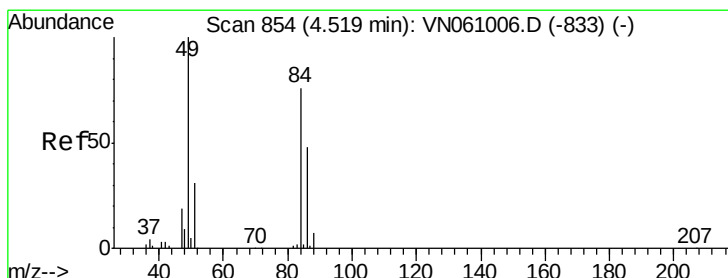
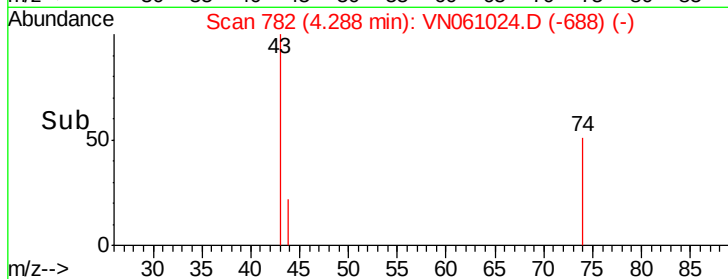
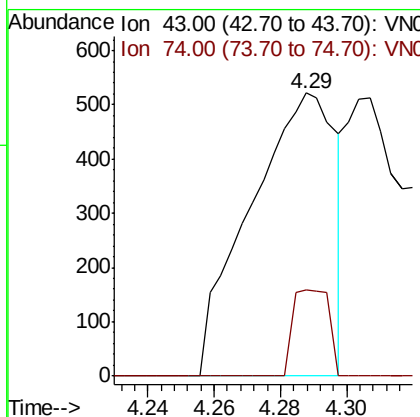
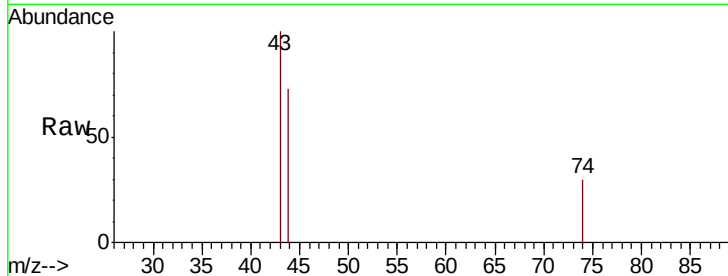




#18
Methvl Acetate
Concen: 0.320 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

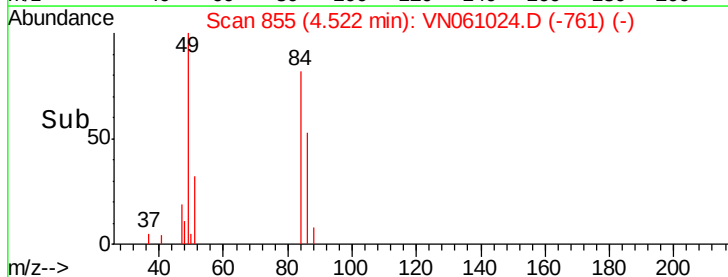
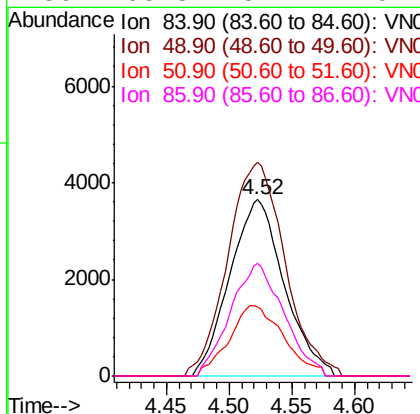
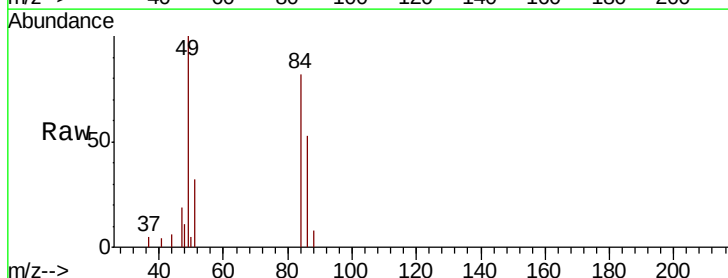
Instrument :
MSVOA_N
ClientSampleId :

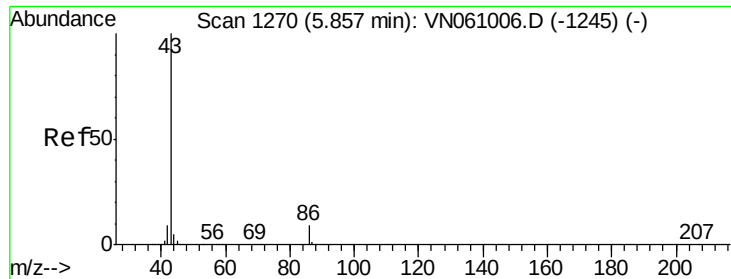
Tot Ion: 43 Resp: 933
Ion Ratio Lower Upper
43 100
74 12.9 17.4 26.0#



#20
Methylene Chloride
Concen: 5.428 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

Tgt Ion: 84 Resp: 11012
Ion Ratio Lower Upper
84 100
49 116.8 105.8 158.6
51 39.4 32.4 48.6
86 63.8 51.1 76.7





#23

Vinyl Acetate

Concen: 0.247 ug/l

RT: 5.71 min Scan# 1224

Delta R.T. -0.15 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

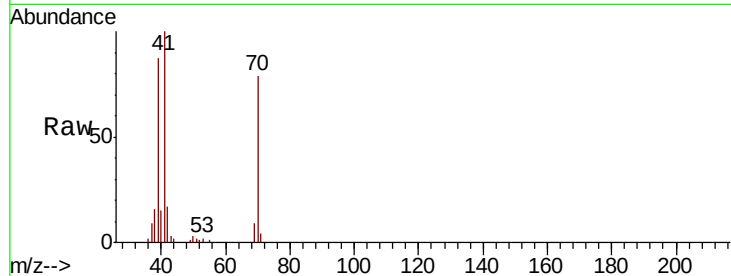
ClientSampled :

Tot Ion: 43 Resp: 1375

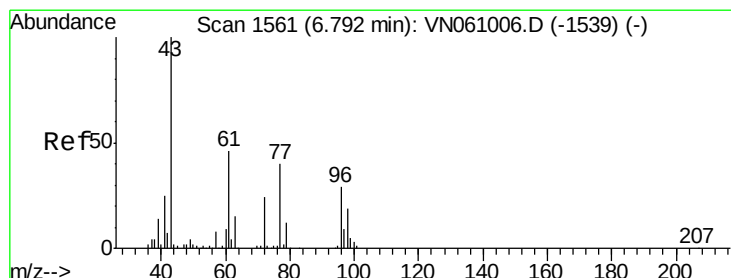
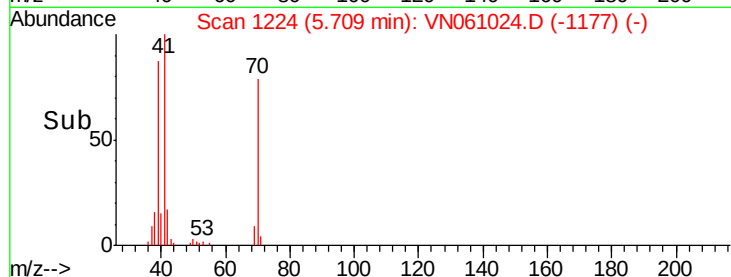
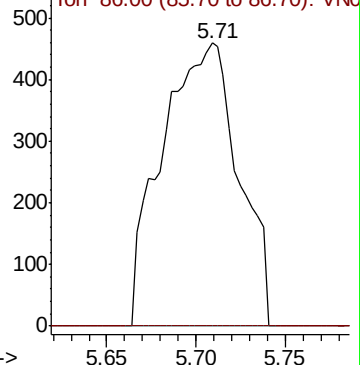
Ion Ratio Lower Upper

43 100

86 0.0 7.3 10.9#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-1245) (-)



#25

2-Butanone

Concen: 7.997 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN061024.D

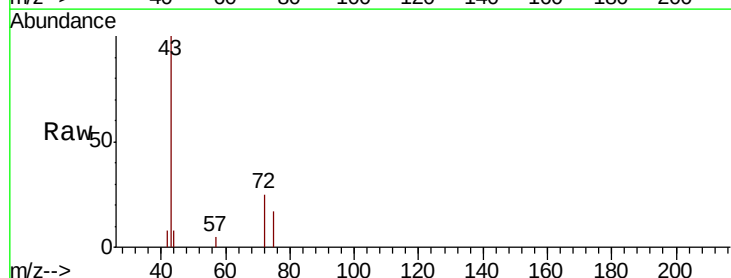
Acq: 16 Apr 2020 20:05

Tgt Ion: 43 Resp: 11386

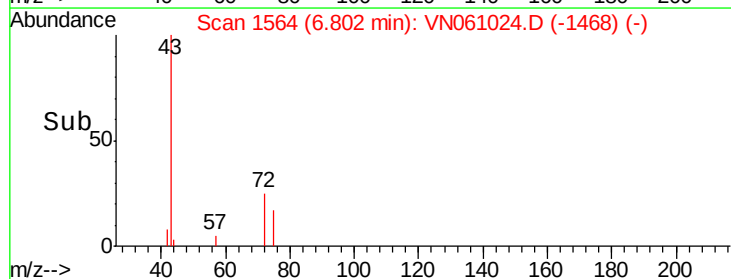
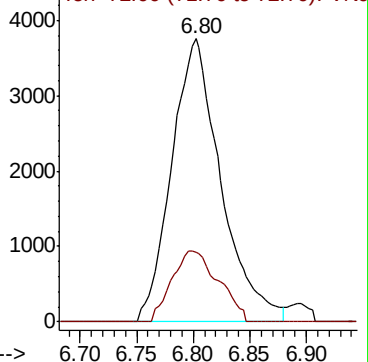
Ion Ratio Lower Upper

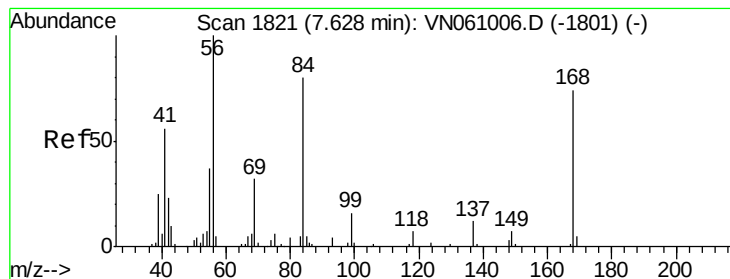
43 100

72 24.5 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-1539) (-)





#31

Cyclohexane

Concen: 0.945 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

ClientSampled :

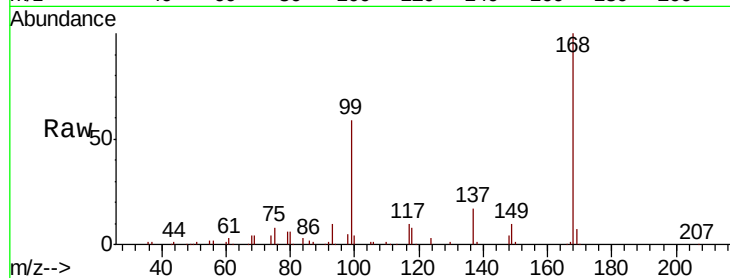
Tot Ion: 56 Resp: 3718

Ion Ratio Lower Upper

56 100

69 152.0 25.6 38.4#

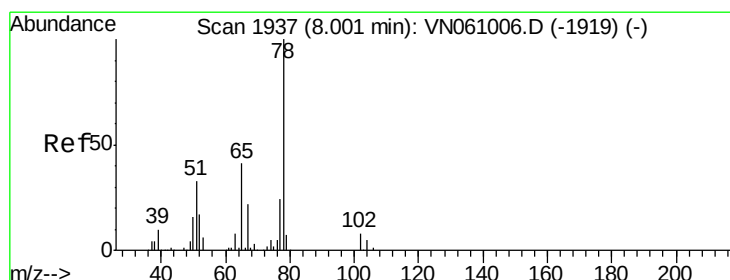
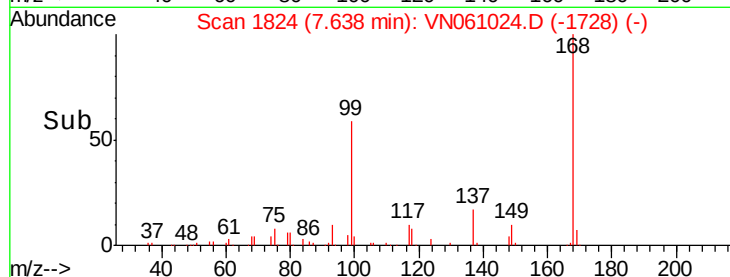
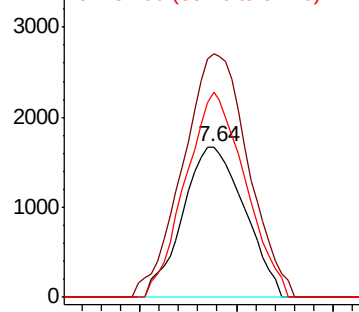
84 136.5 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN061006.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN061006.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN061006.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.181 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061024.D

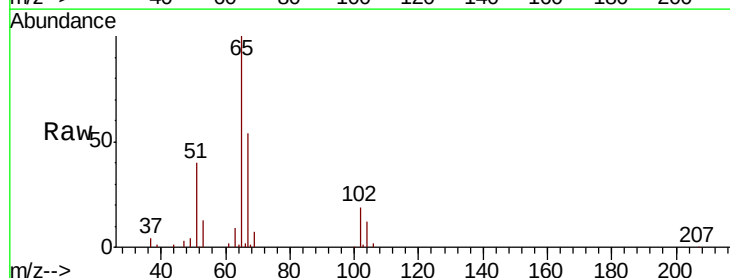
Acq: 16 Apr 2020 20:05

Tgt Ion: 65 Resp: 110157

Ion Ratio Lower Upper

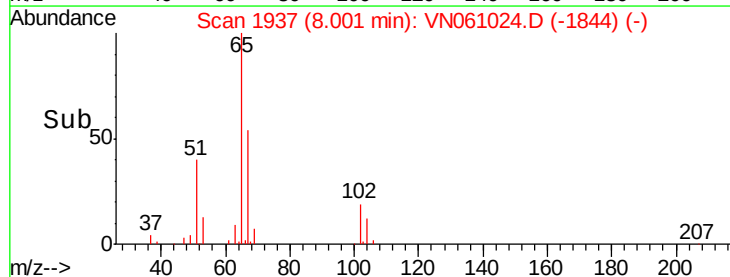
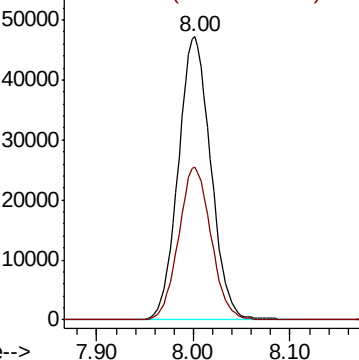
65 100

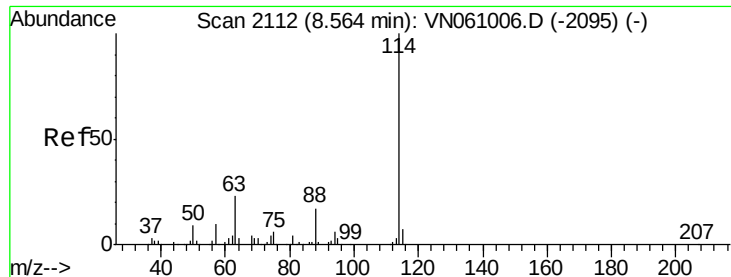
67 53.7 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN061006.D (-1919) (-)

Ion 66.90 (66.60 to 67.60): VN061006.D (-1919) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

ClientSampleId :

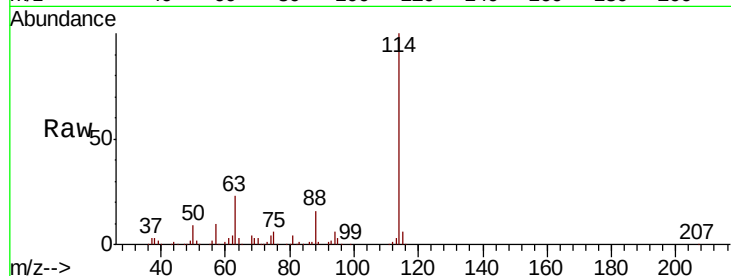
Tot Ion:114 Resp: 280320

Ion Ratio Lower Upper

114 100

63 22.6 0.0 46.2

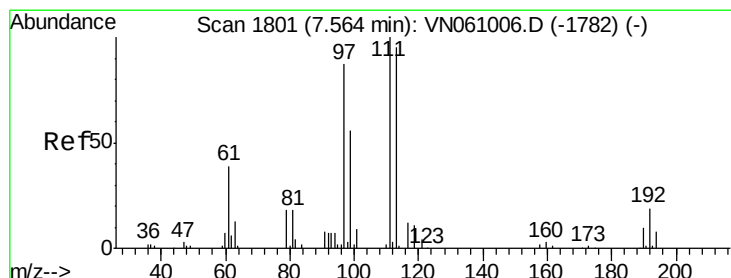
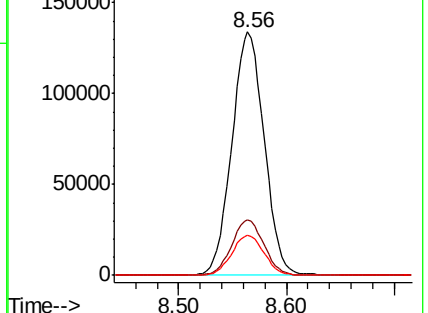
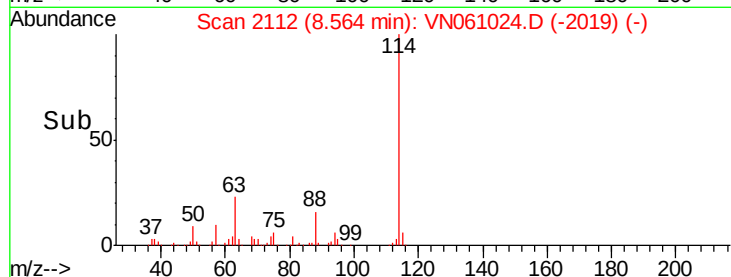
88 16.4 0.0 33.4



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: 51.136 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

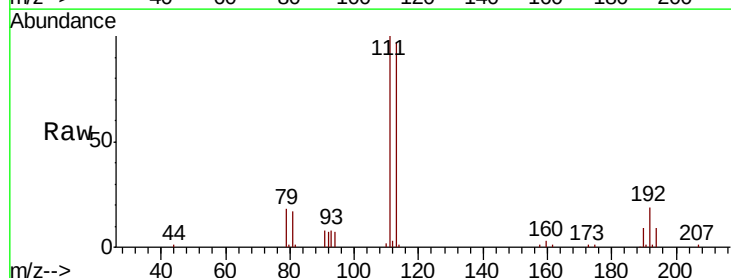
Tgt Ion:113 Resp: 83712

Ion Ratio Lower Upper

113 100

111 104.8 83.4 125.2

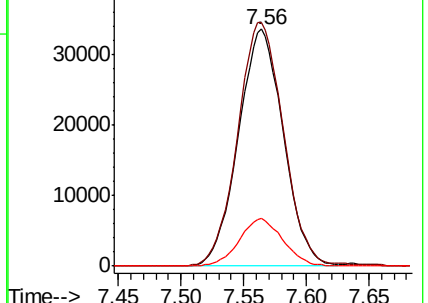
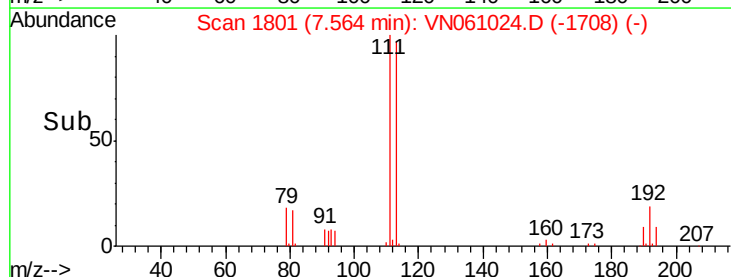
192 19.4 15.5 23.3

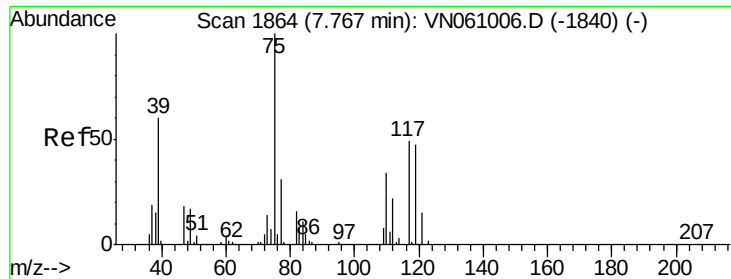


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

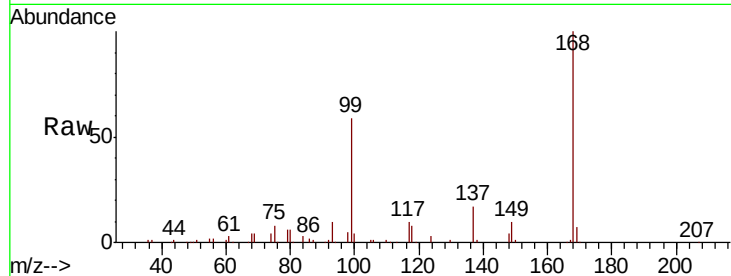




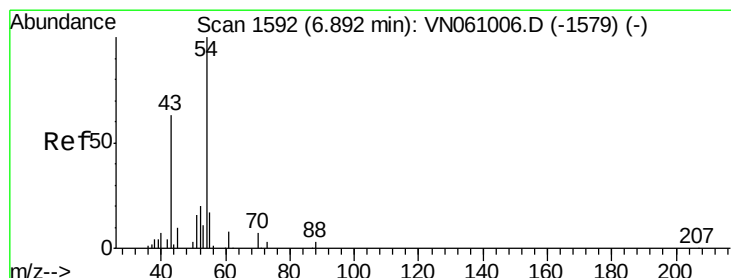
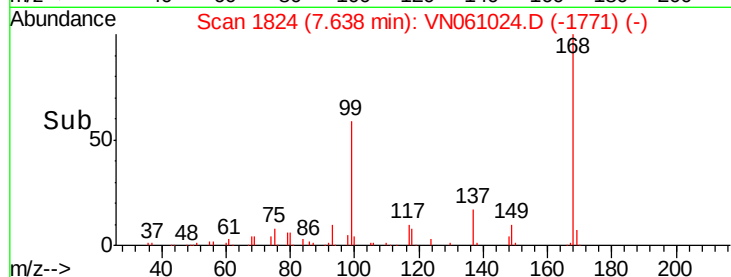
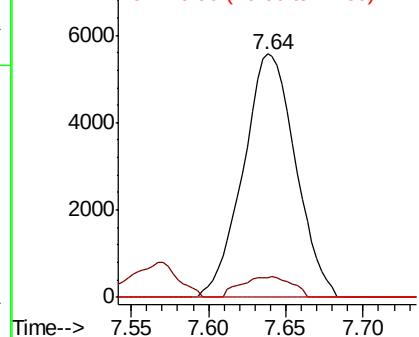
#36
 1,1-Dichloropropene
 Concen: 4.534 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	13114
Ion Ratio	100	Lower	Upper
75	100		
110	8.2	16.8	50.3#
77	0.0	24.7	37.1#

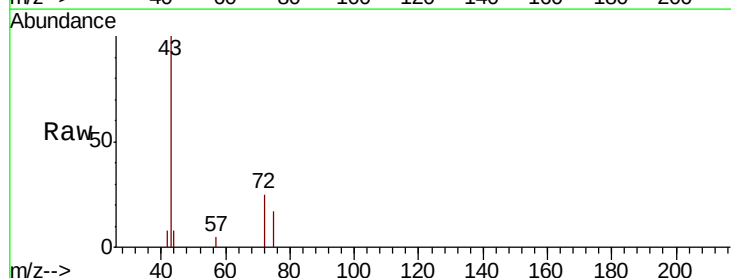


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

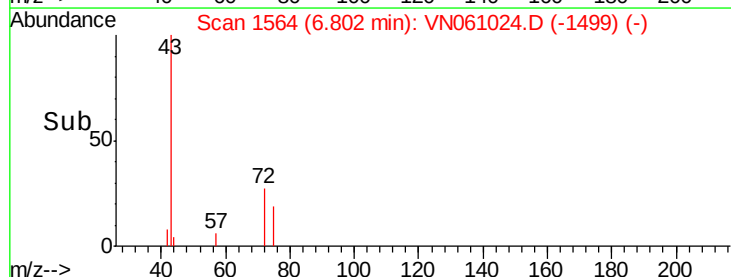
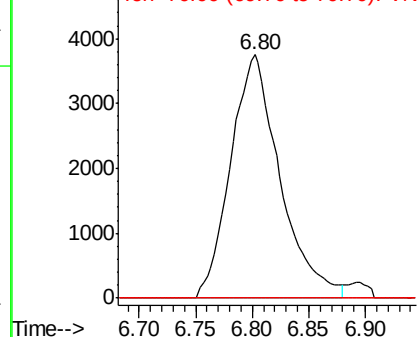


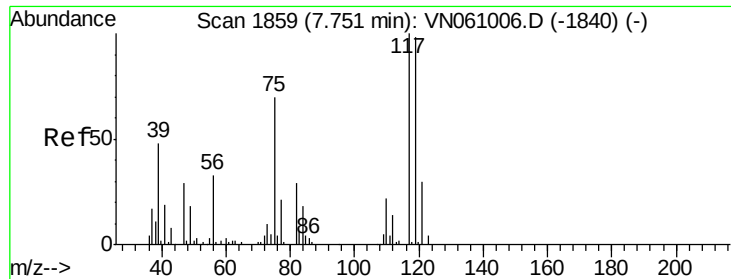
#37
 Ethyl Acetate
 Concen: 3.625 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

Tgt Ion	43	Resp	11386
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#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.792 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :
MSVOA_N
ClientSampleId :

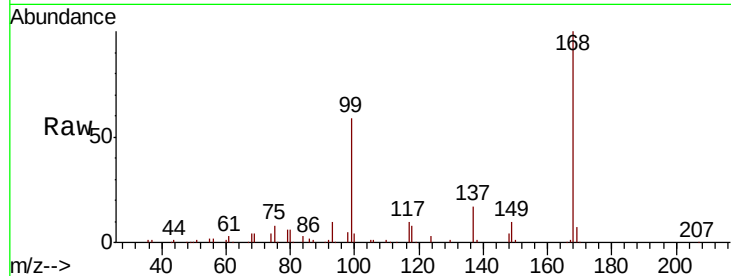
Tot Ion:117 Resp: 16354

Ion Ratio Lower Upper

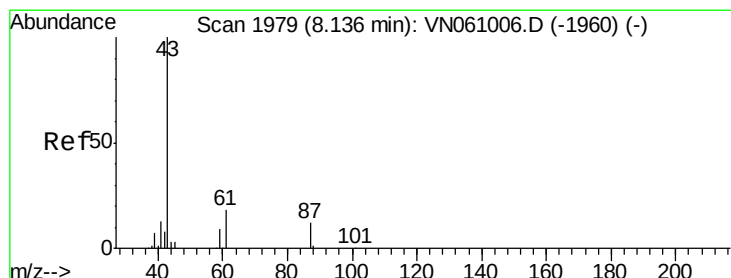
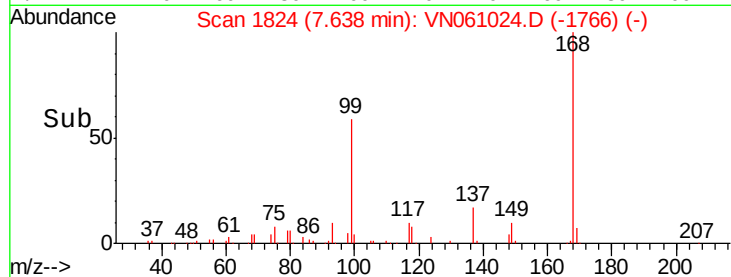
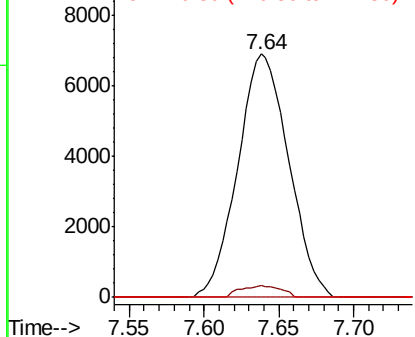
117 100

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: 8.409 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

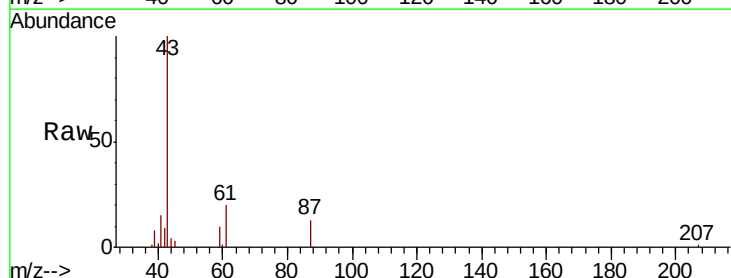
Tgt Ion: 43 Resp: 42957

Ion Ratio Lower Upper

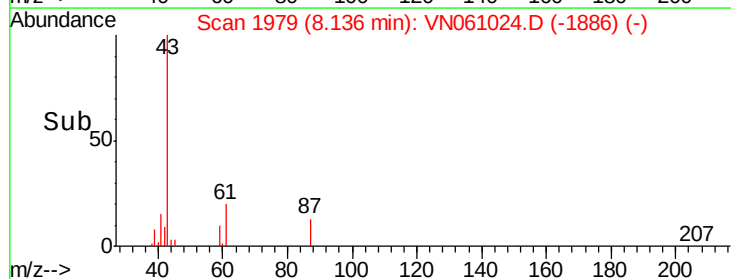
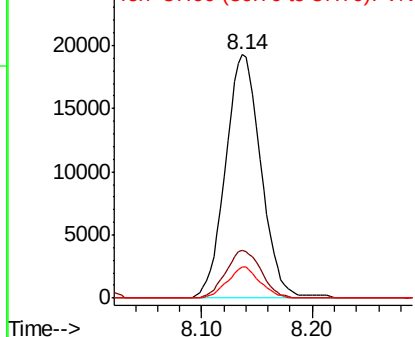
43 100

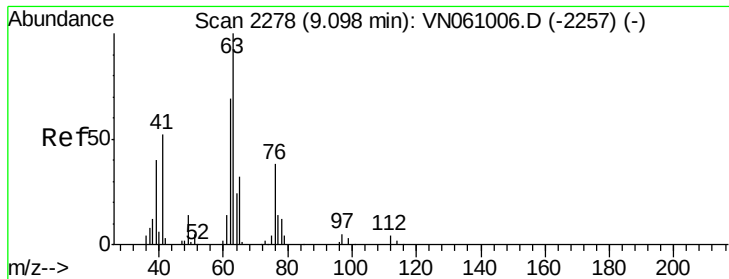
61 19.4 20.3 30.5#

87 11.6 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

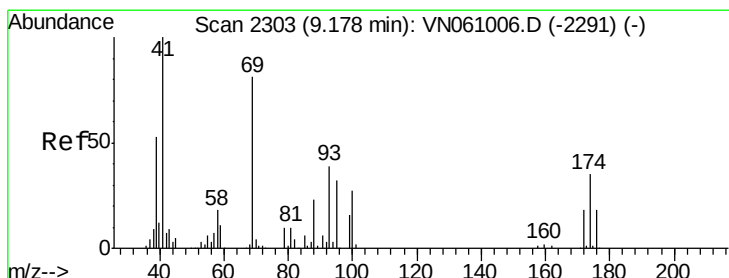
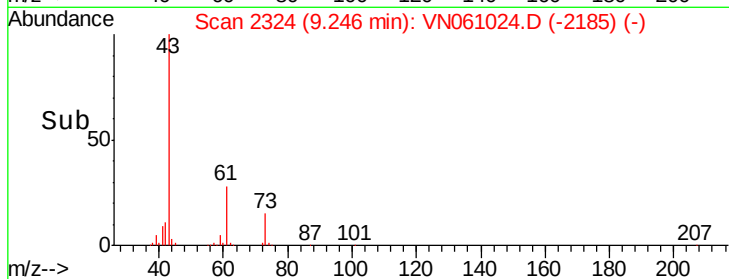
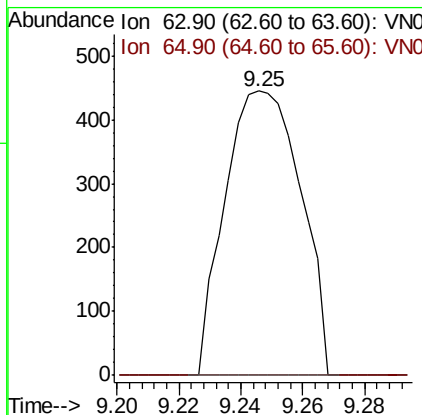
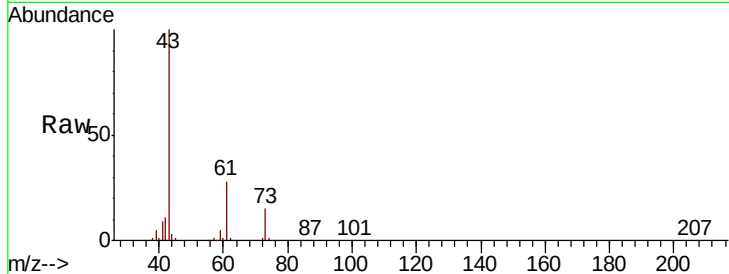




#45
 1,2-Dichloropropane
 Concen: 0.327 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.15 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

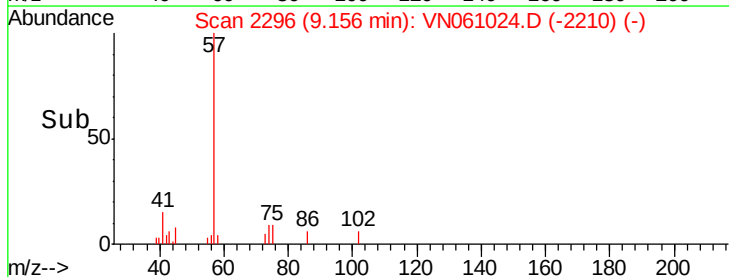
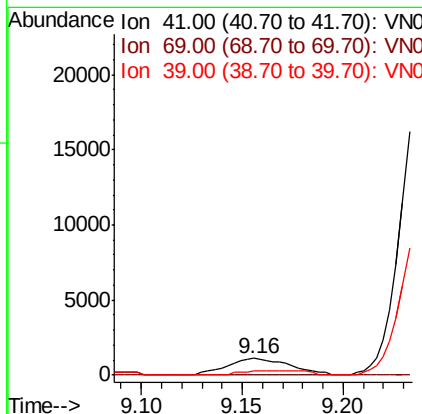
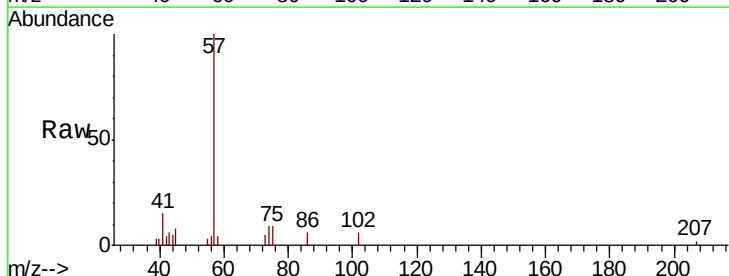
Instrument :
 MSVOA_N
 ClientSampled :

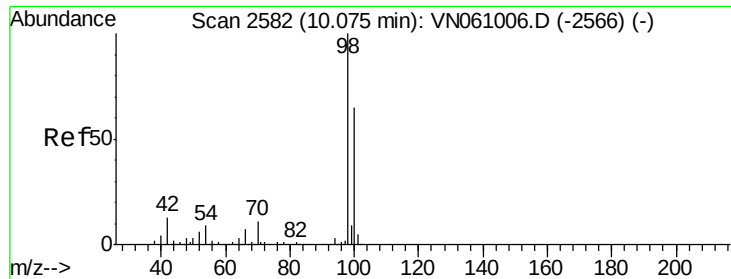
Tot Ion: 63 Resp: 757
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 1.061 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.02 min
 Lab File: VN061024.D
 Acq: 16 Apr 2020 20:05

Tgt Ion: 41 Resp: 2395
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.3 97.9#
 39 0.0 45.2 67.8#

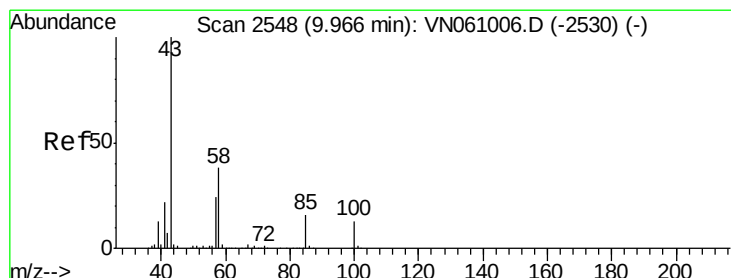
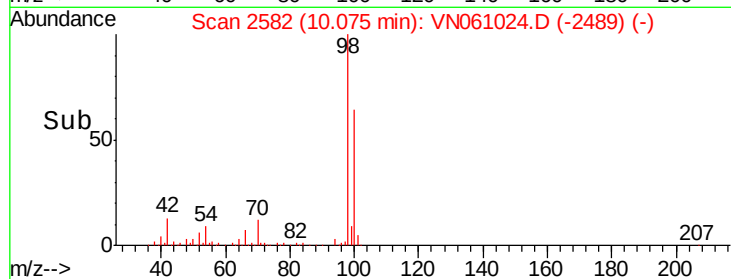
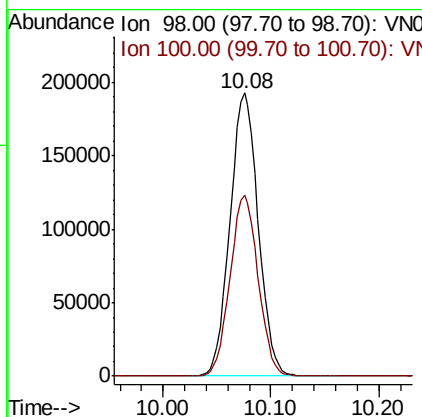
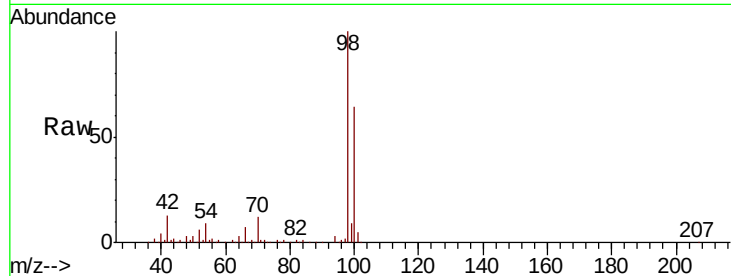




#50
Toluene-d8
Concen: 56.872 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

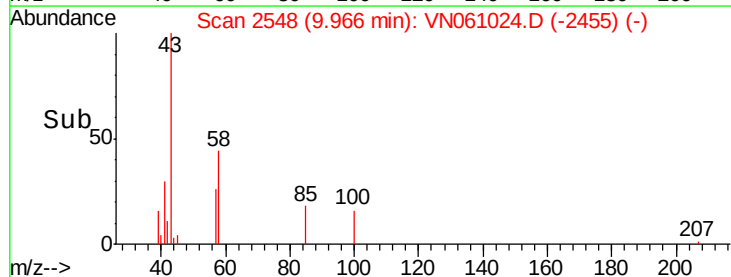
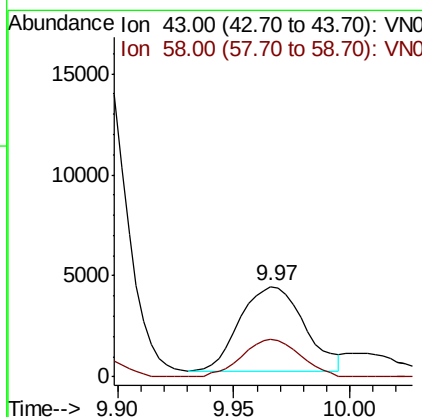
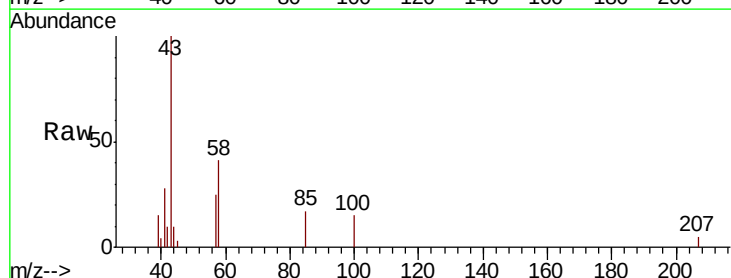
Instrument :
MSVOA_N
ClientSampled :

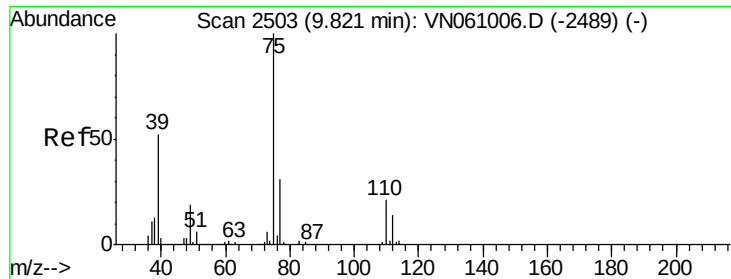
Tot Ion: 98 Resp: 351812
Ion Ratio Lower Upper
98 100
100 63.6 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 2.733 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

Tgt Ion: 43 Resp: 8049
Ion Ratio Lower Upper
43 100
58 40.6 30.3 45.5





#54

cis-1,3-Dichloropropene

Concen: 5.035 ug/l

RT: 9.89 min Scan# 2523

Delta R.T. 0.06 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

ClientSampled :

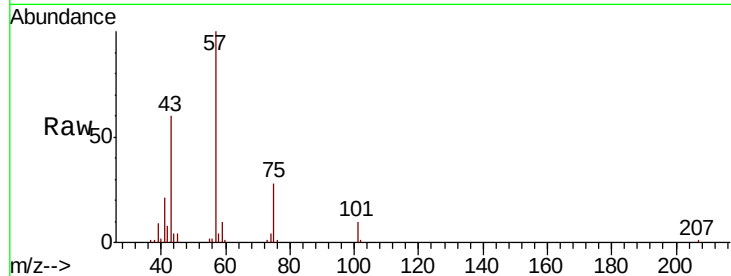
Tot Ion: 75 Resp: 18016

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

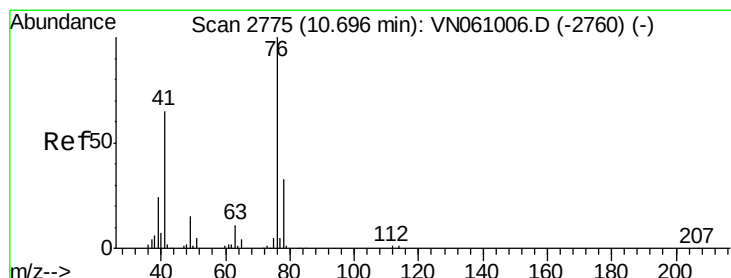
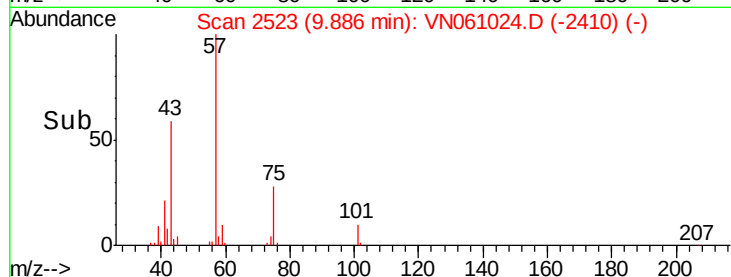
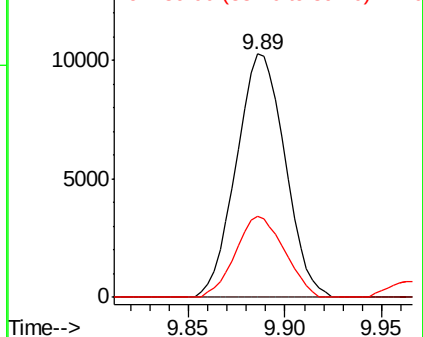
39 33.5 41.4 62.2#



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: 0.792 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN061024.D

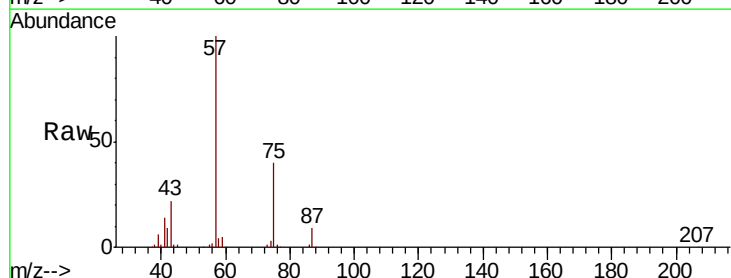
Acq: 16 Apr 2020 20:05

Tgt Ion: 76 Resp: 2753

Ion Ratio Lower Upper

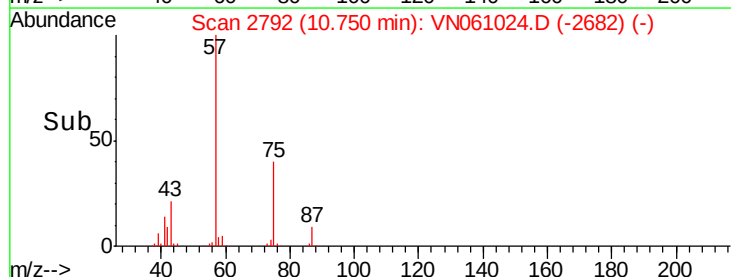
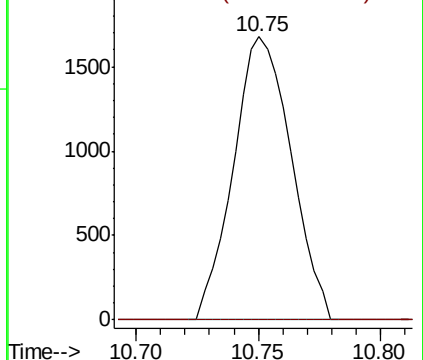
76 100

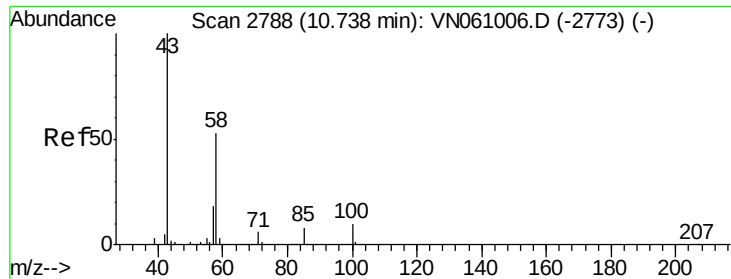
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

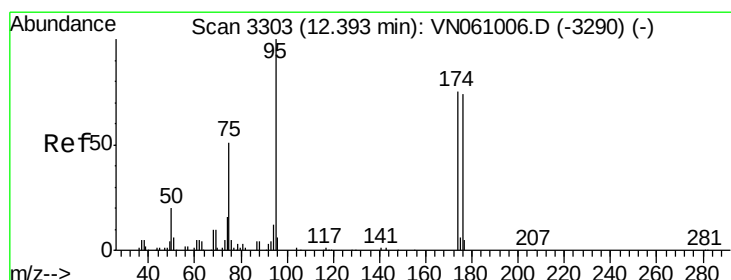
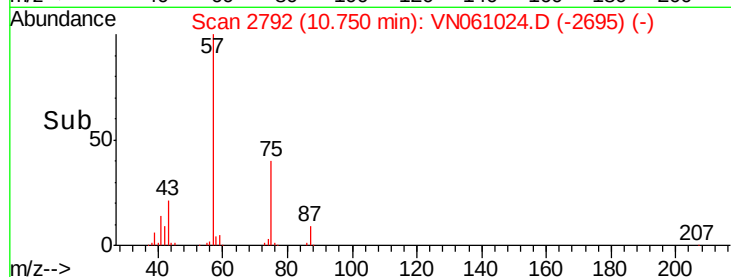
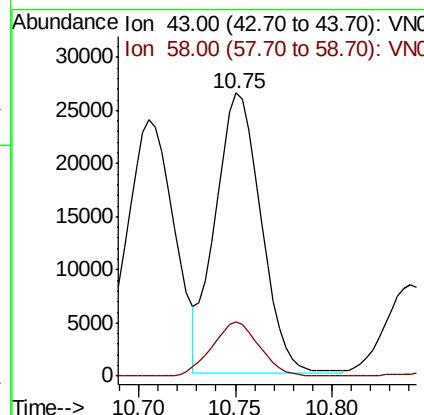
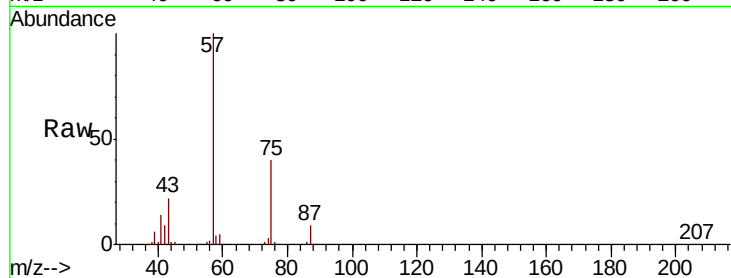




#59
2-Hexanone
Concen: 20.439 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

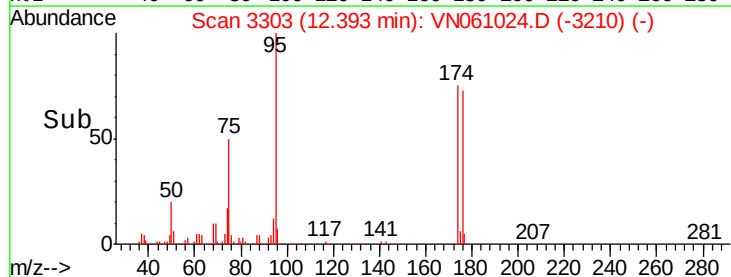
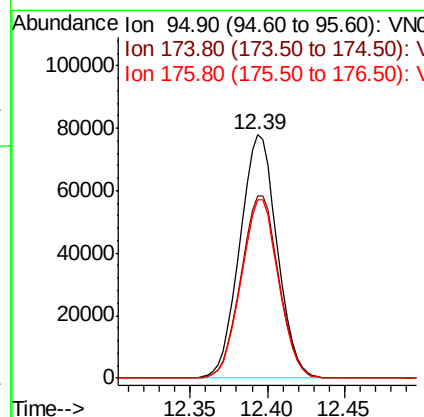
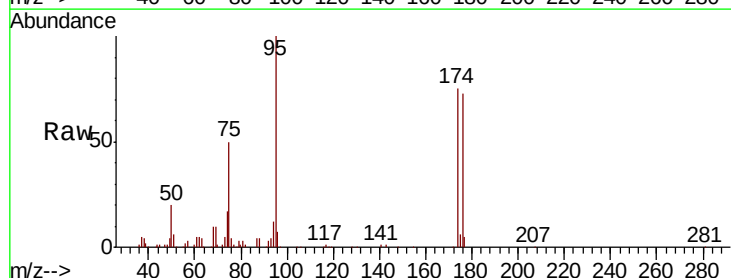
Instrument :
MSVOA_N
ClientSampled :

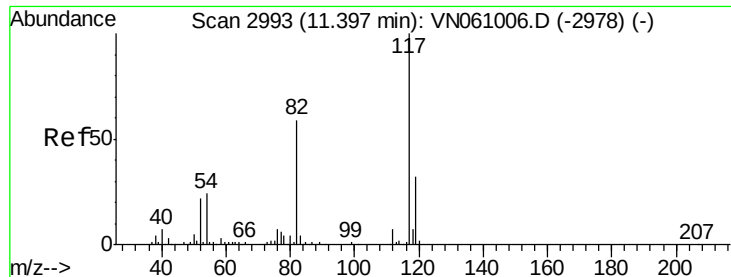
Tot Ion: 43 Resp: 43407
Ion Ratio Lower Upper
43 100
58 19.9 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 53.639 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

Tgt Ion: 95 Resp: 130047
Ion Ratio Lower Upper
95 100
174 76.4 0.0 151.2
176 73.9 0.0 148.2

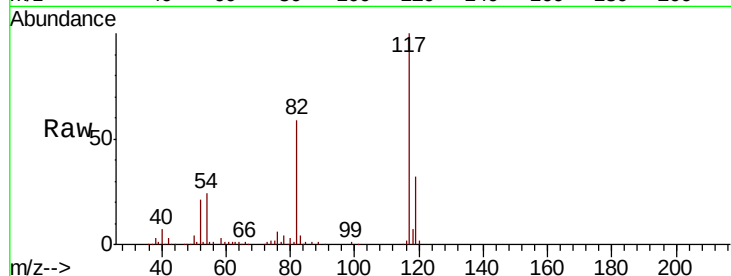




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.1	70.7
119	32.2	25.7	38.5

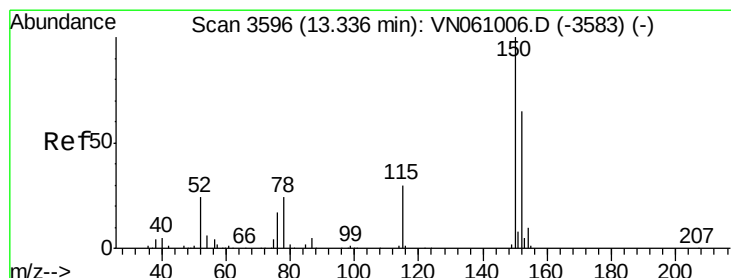
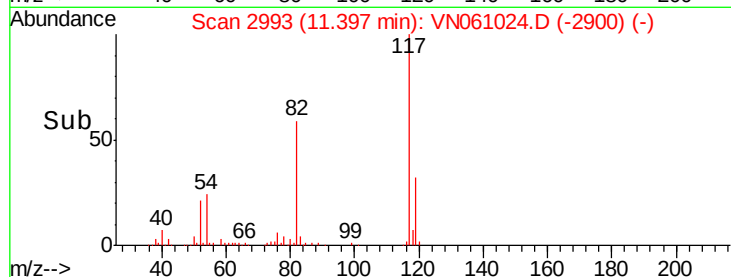
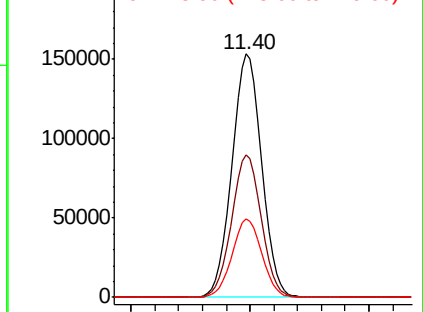


Abundance

Ion 116.90 (116.60 to 117.60): V

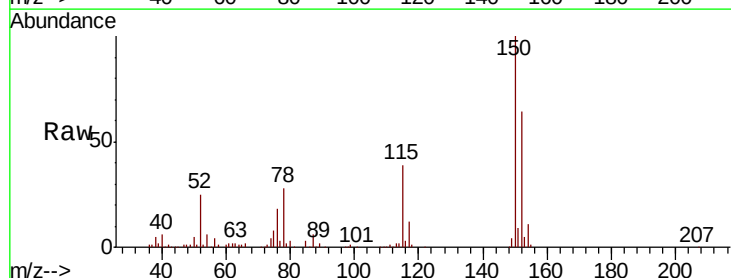
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061024.D
Acq: 16 Apr 2020 20:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.8	92.4
150	157.4	0.0	349.0

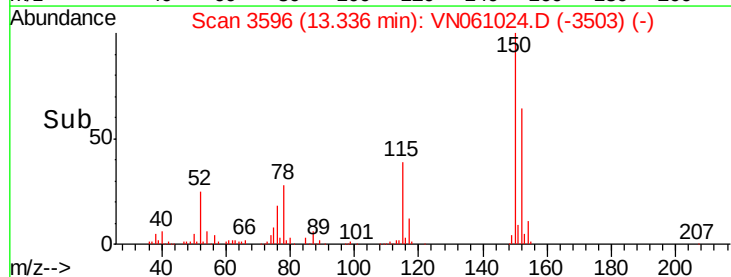
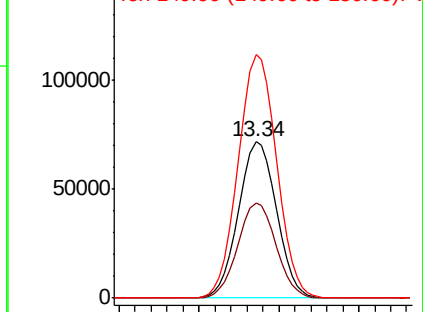


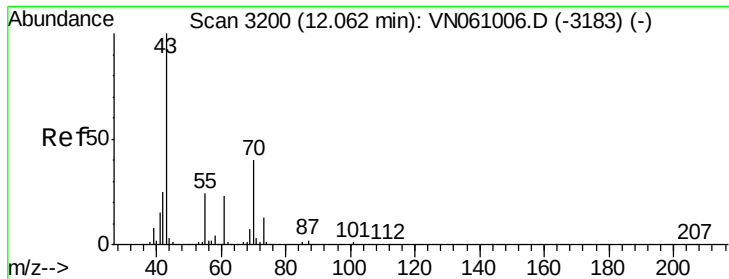
Abundance

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





#74

N-amvl acetate

Concen: 0.745 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3236

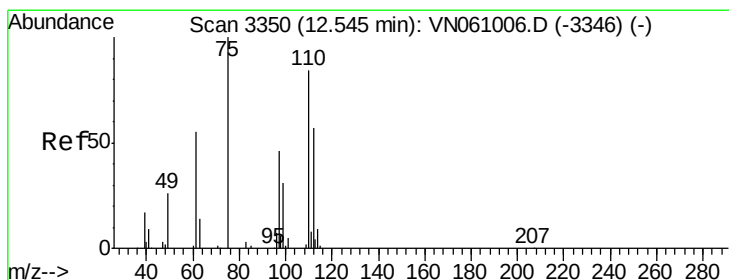
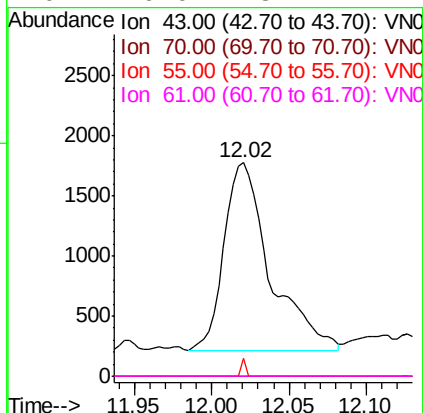
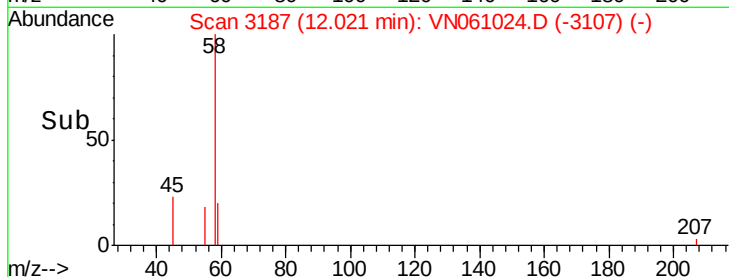
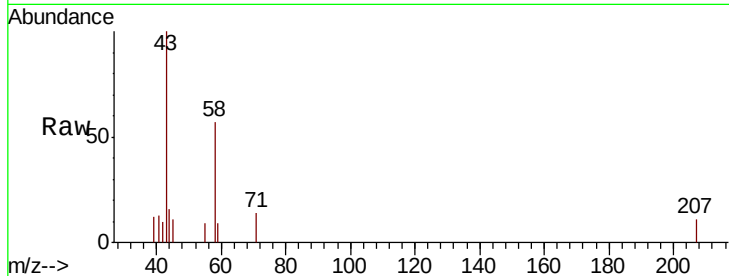
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 0.9 18.6 27.8#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 25.744 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061024.D

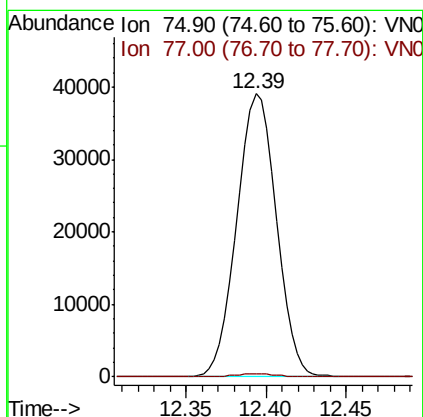
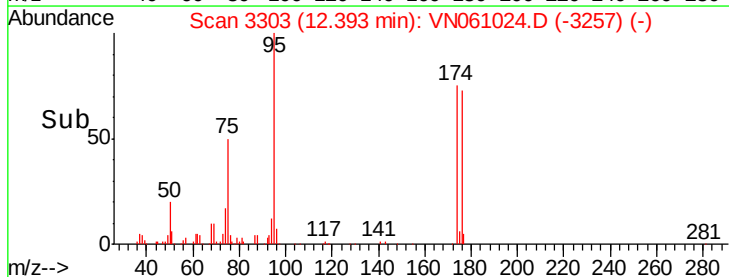
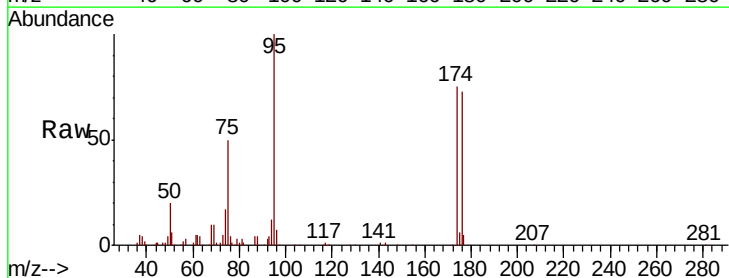
Acq: 16 Apr 2020 20:05

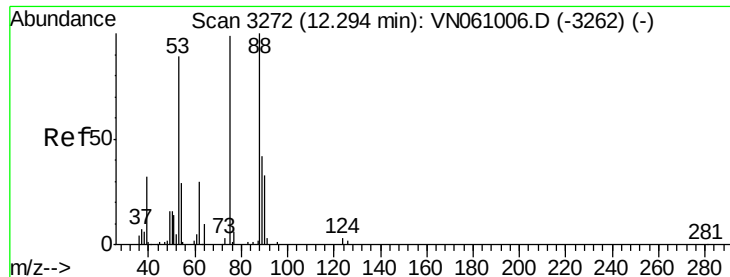
Tgt Ion: 75 Resp: 66003

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.501 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061024.D

Acq: 16 Apr 2020 20:05

Instrument :

MSVOA_N

ClientSampleId :

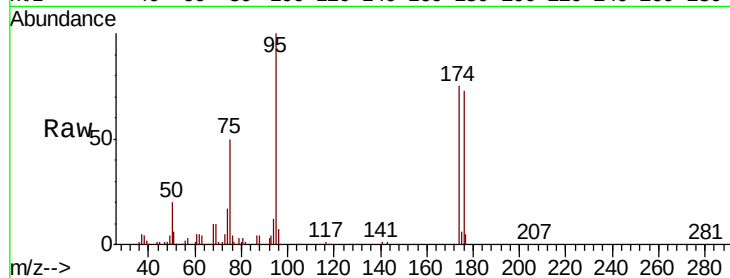
Tot Ion: 75 Resp: 66003

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

