

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042220\
 Data File : VN061146.D
 Acq On : 22 Apr 2020 22:33
 Operator : JC/MD
 Sample : L2359-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1B-D

Quant Time: Apr 29 13:46:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	183097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	307470	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	297958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	148355	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.77	65	117599	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
35) Dibromofluoromethane	7.31	113	80450	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
50) Toluene-d8	9.88	98	378222	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.21	95	148674	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	

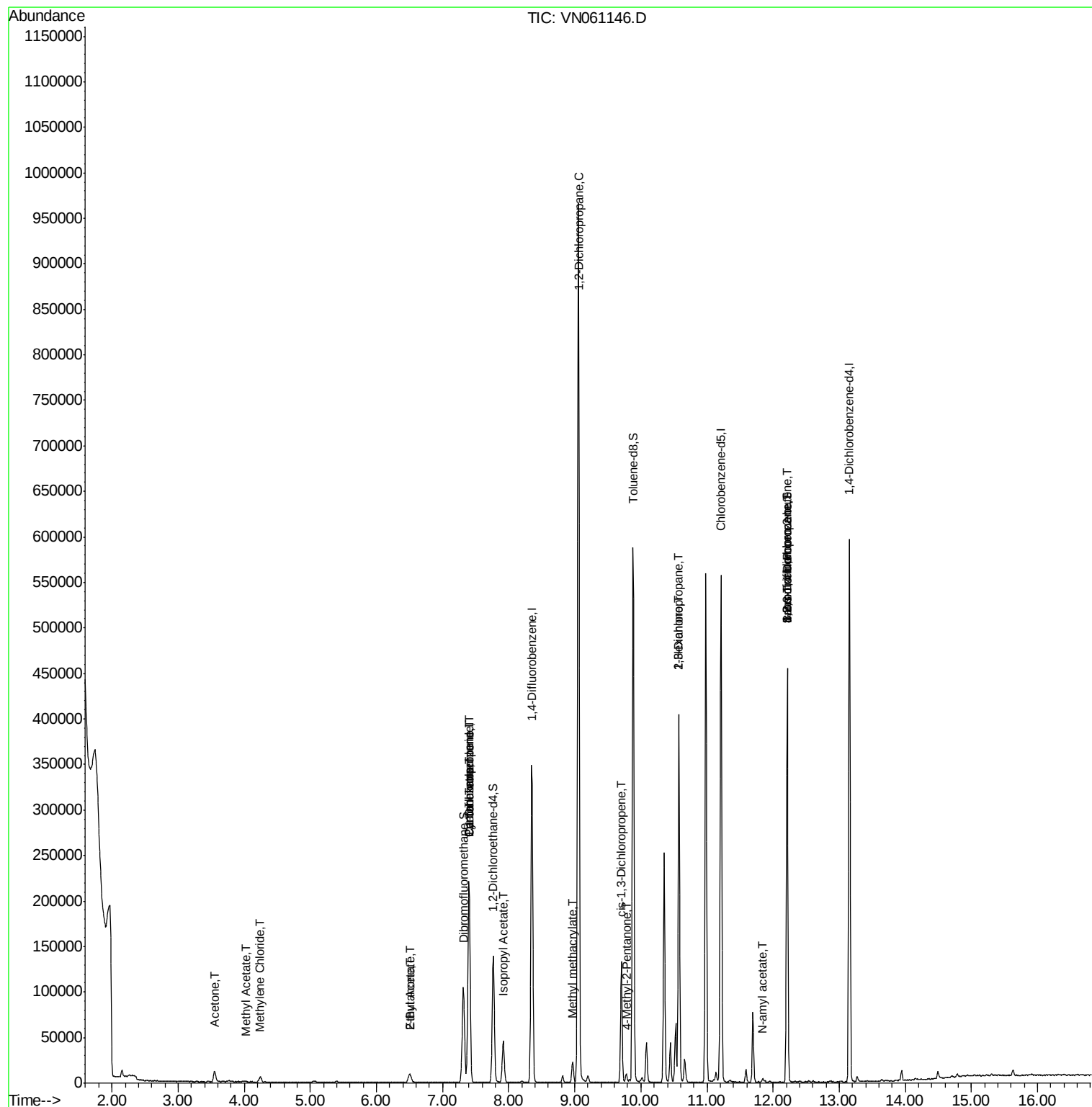
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.54	43	20566	11.58	ug/l	98
18) Methyl Acetate	4.02	43	3075	0.62	ug/l #	60
20) Methylene Chloride	4.24	84	3806	1.79	ug/l	97
25) 2-Butanone	6.51	43	1969	1.49	ug/l	94
31) Cyclohexane	7.40	56	3683	0.99	ug/l #	1
36) 1,1-Dichloropropene	7.40	75	14164	4.71	ug/l #	49
37) Ethyl Acetate	6.51	43	1969	0.65	ug/l #	68
38) Carbon Tetrachloride	7.40	117	17567	6.68	ug/l #	16
43) Isopropyl Acetate	7.92	43	54264	10.61	ug/l	100
45) 1,2-Dichloropropane	9.06	63	1070	0.45	ug/l #	44
48) Methyl methacrylate	8.95	41	2996	1.24	ug/l #	14
49) 1,4-Dioxane	8.97	88	590	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.78	43	6110	2.05	ug/l	98
54) cis-1,3-Dichloropropene	9.70	75	23016	6.08	ug/l #	60
57) 1,3-Dichloropropane	10.57	76	3916	1.08	ug/l #	42
59) 2-Hexanone	10.57	43	57545	26.09	ug/l #	51
71) Bromoform	12.21	173	393	0.24	ug/l #	1
74) N-amyl acetate	11.84	43	3226	0.64	ug/l #	44
76) 1,2,3-Trichloropropane	12.21	75	75260	21.99	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	75260	57.76	ug/l #	12

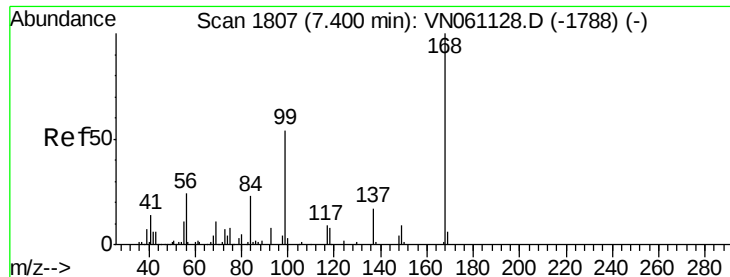
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 22 15:26:40 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

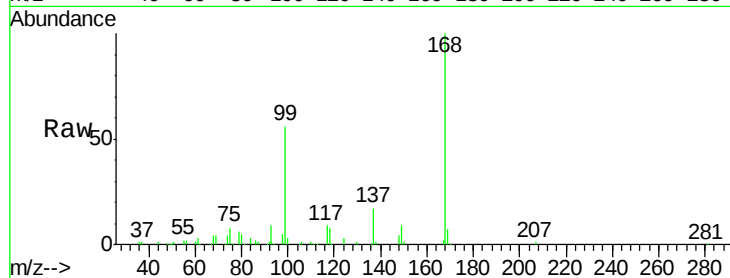
TP-1B-D

Tgt Ion:168 Resp: 183097

Ion Ratio Lower Upper

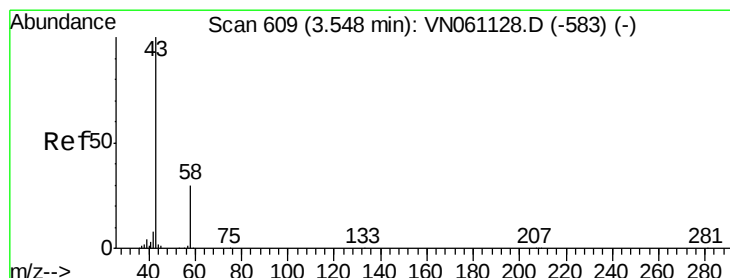
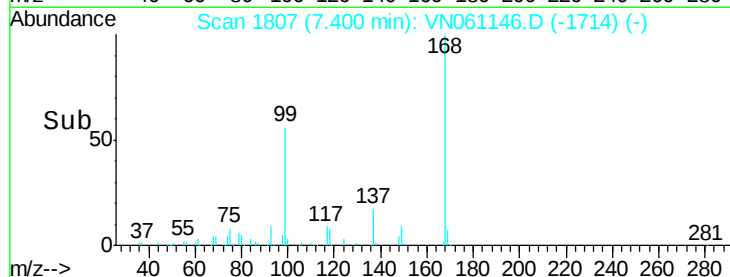
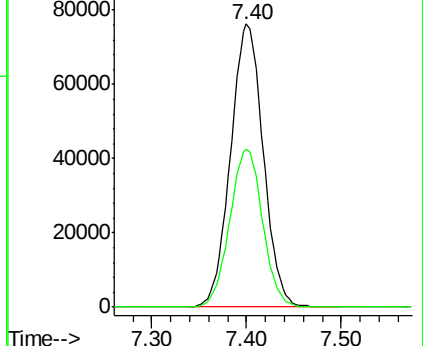
168 100

99 55.8 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 11.58 ug/l

RT: 3.54 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN061146.D

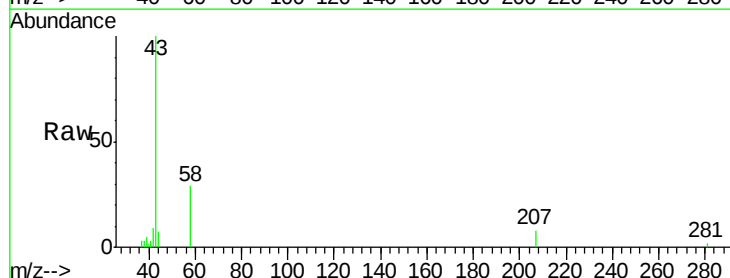
Acq: 22 Apr 2020 22:33

Tgt Ion: 43 Resp: 20566

Ion Ratio Lower Upper

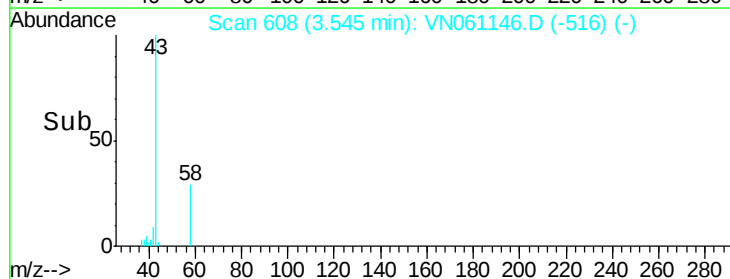
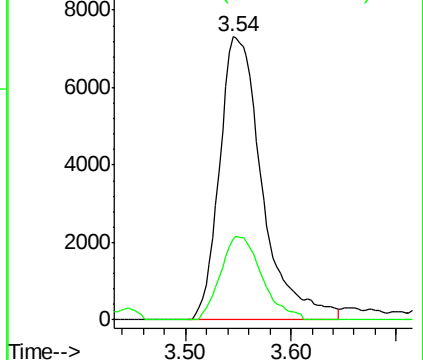
43 100

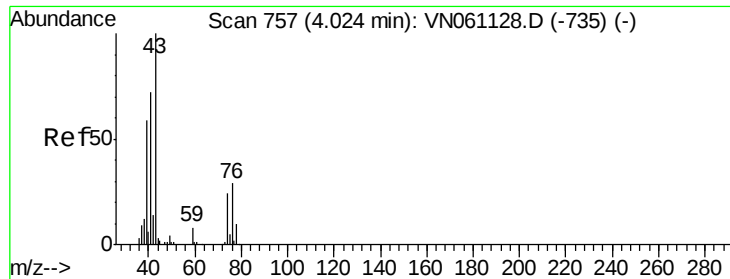
58 28.6 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

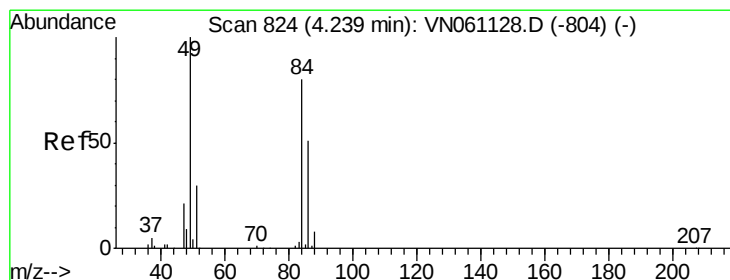
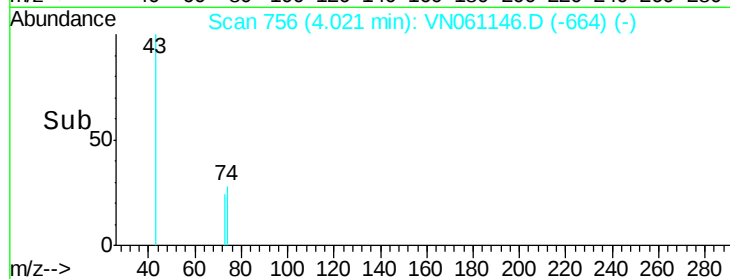
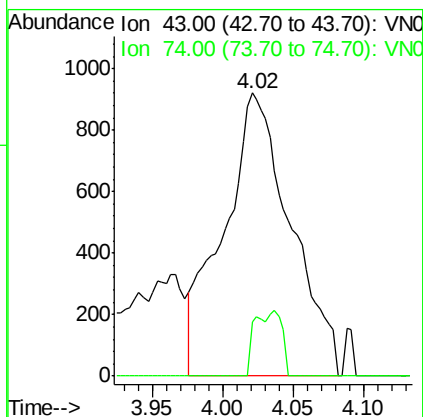
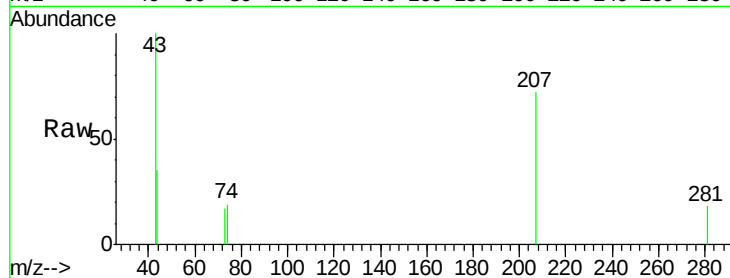




#18
Methyl Acetate
Concen: 0.62 ug/l
RT: 4.02 min Scan# 756
Delta R.T. -0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

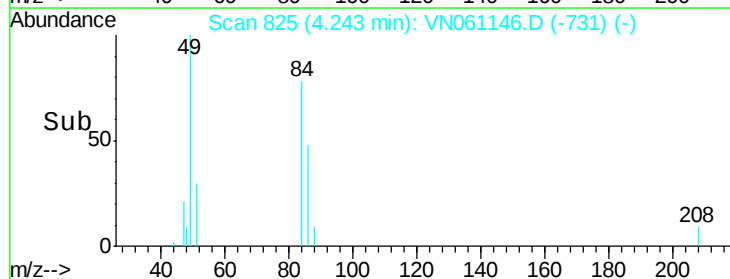
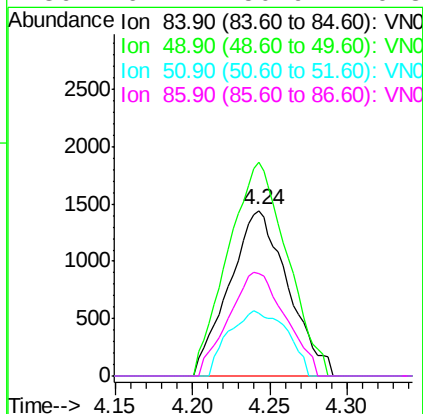
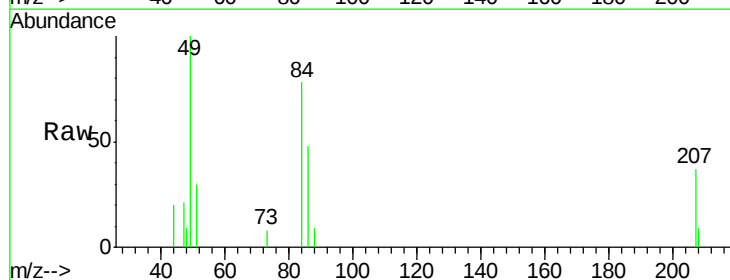
Instrument :
MSVOA_N
ClientSampled :
TP-1B-D

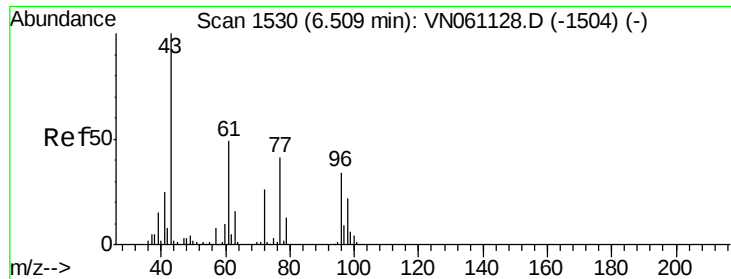
Tgt Ion: 43 Resp: 3075
Ion Ratio Lower Upper
43 100
74 4.6 19.4 29.0#



#20
Methylene Chloride
Concen: 1.79 ug/l
RT: 4.24 min Scan# 825
Delta R.T. 0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

Tgt Ion: 84 Resp: 3806
Ion Ratio Lower Upper
84 100
49 128.9 99.8 149.6
51 38.2 29.9 44.9
86 62.1 50.9 76.3





#25

2-Butanone

Concen: 1.49 ug/l

RT: 6.51 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

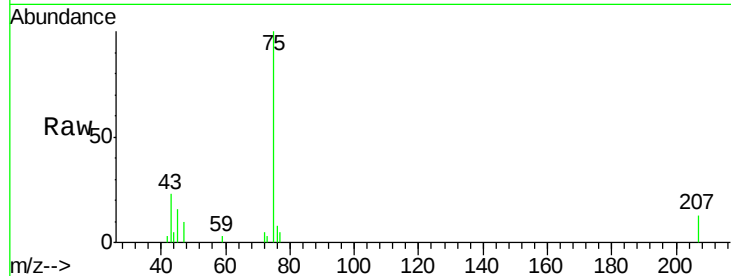
TP-1B-D

Tgt Ion: 43 Resp: 1969

Ion Ratio Lower Upper

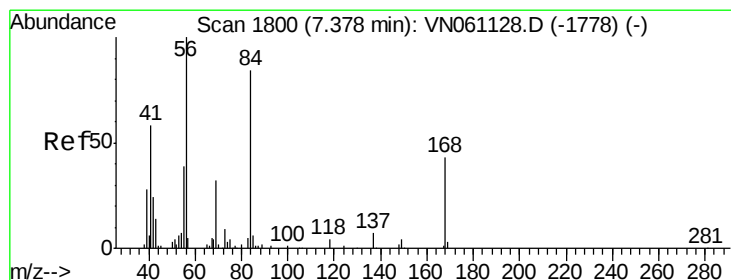
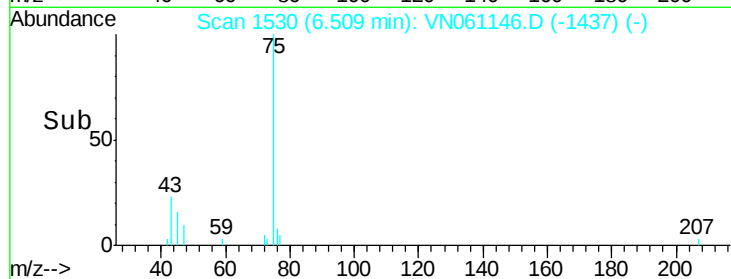
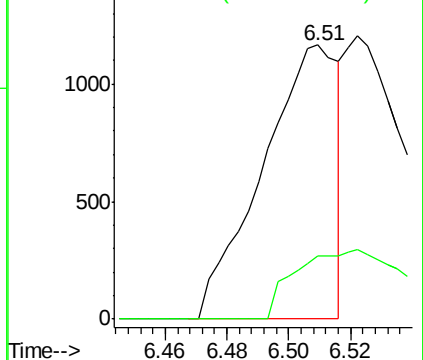
43 100

72 23.2 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.99 ug/l

RT: 7.40 min Scan# 1808

Delta R.T. 0.03 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

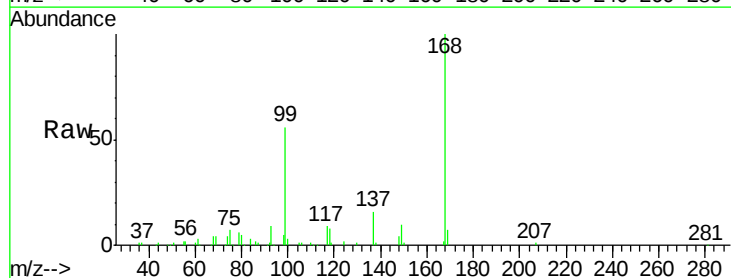
Tgt Ion: 56 Resp: 3683

Ion Ratio Lower Upper

56 100

69 189.0 25.9 38.9#

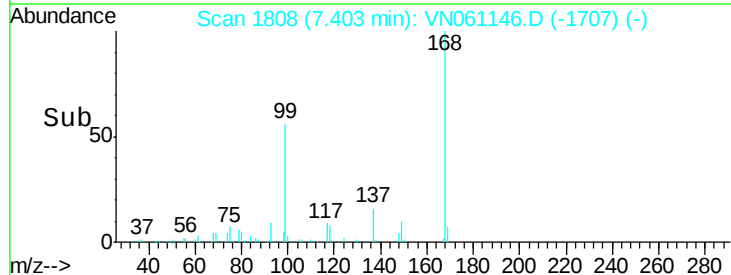
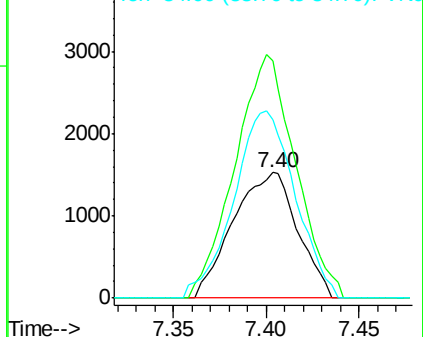
84 142.0 67.4 101.0#

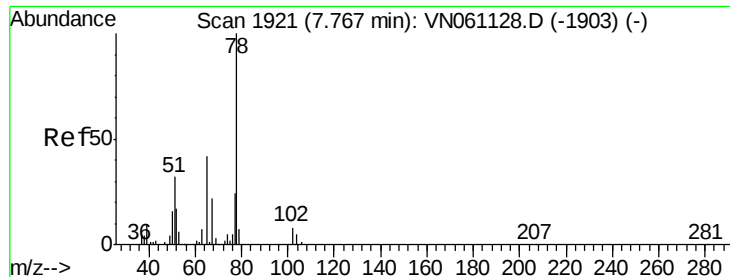


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

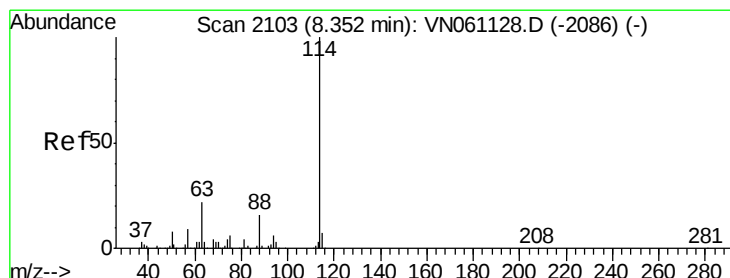
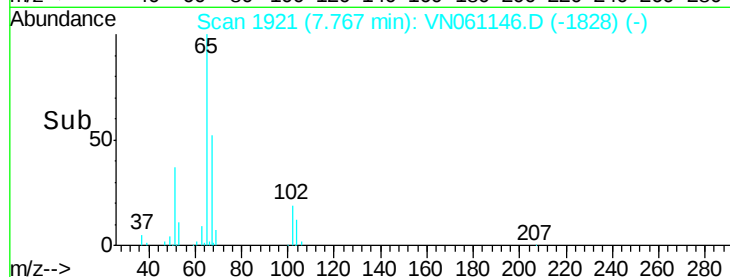
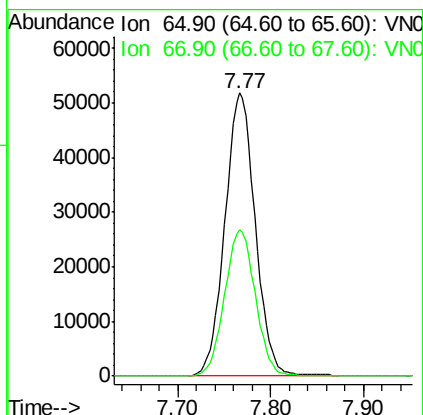
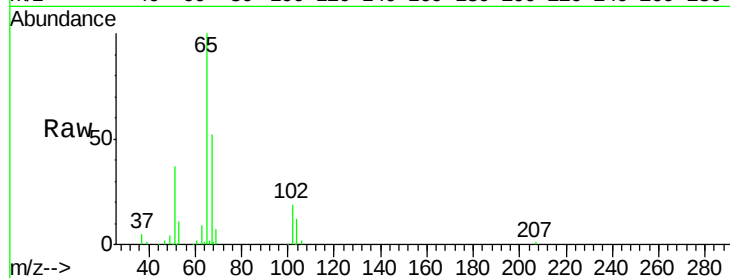




#33
 1,2-Dichloroethane-d4
 Concen: 48.44 ug/l
 RT: 7.77 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

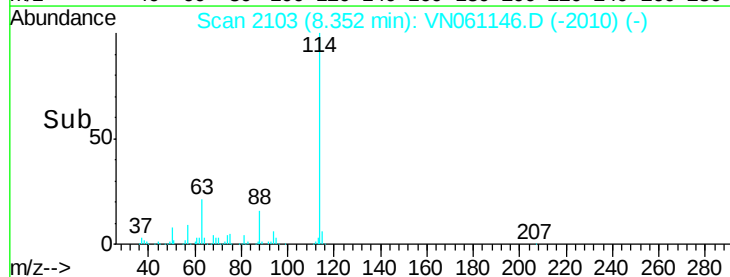
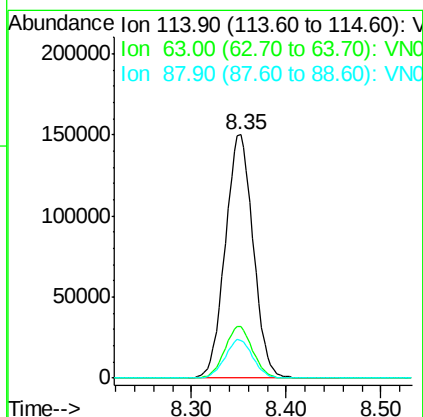
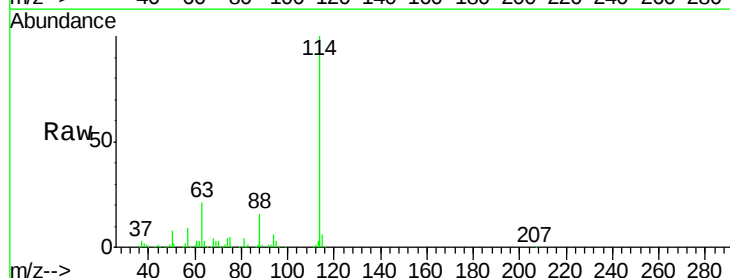
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1B-D

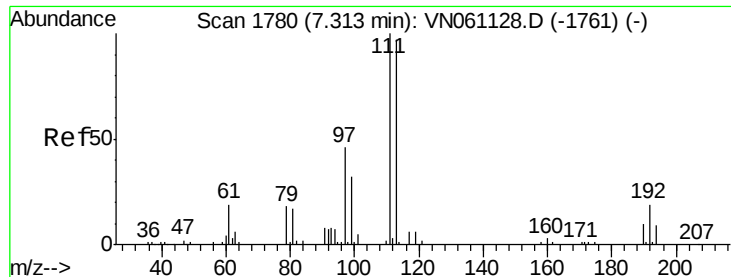
Tgt Ion: 65 Resp: 117599
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.35 min Scan# 2103
 Delta R.T. -0.00 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

Tgt Ion: 114 Resp: 307470
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 43.2
 88 15.6 0.0 32.4

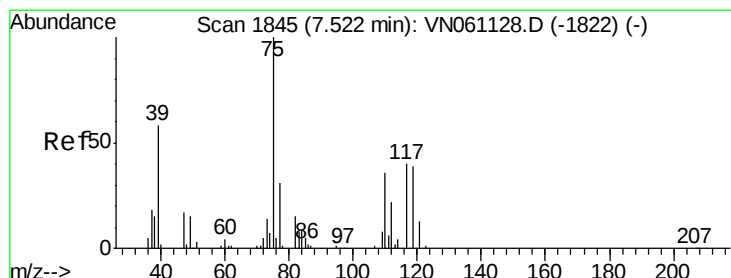
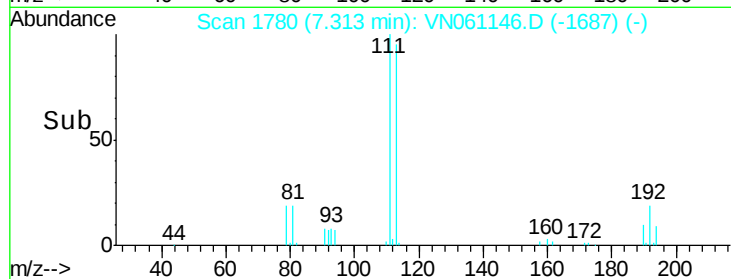
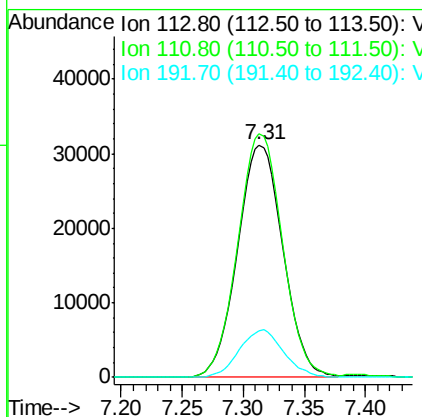
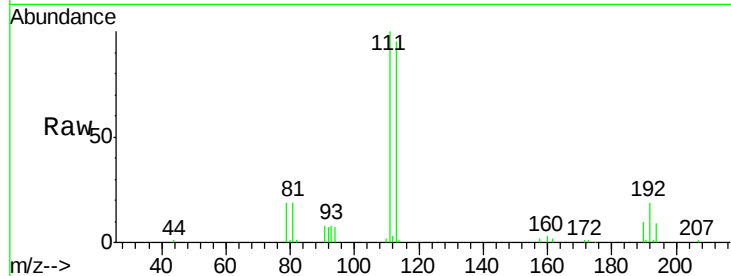




#35
 Dibromofluoromethane
 Concen: 45.85 ug/l
 RT: 7.31 min Scan# 1780
 Delta R.T. -0.00 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

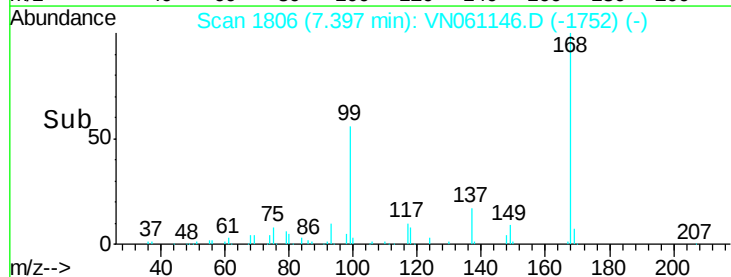
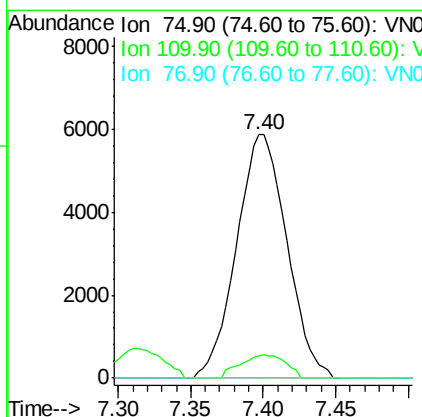
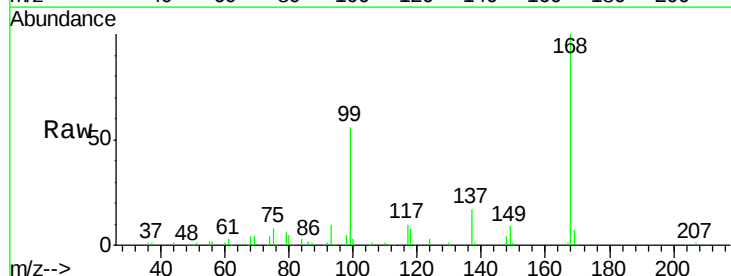
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1B-D

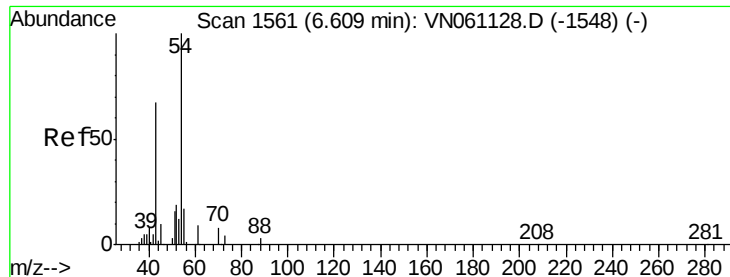
Tgt Ion: 113 Resp: 80450
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.0 124.6
 192 19.9 15.8 23.6



#36
 1,1-Dichloropropene
 Concen: 4.71 ug/l
 RT: 7.40 min Scan# 1806
 Delta R.T. -0.13 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

Tgt Ion: 75 Resp: 14164
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.7 53.1#
 77 0.0 24.8 37.2#

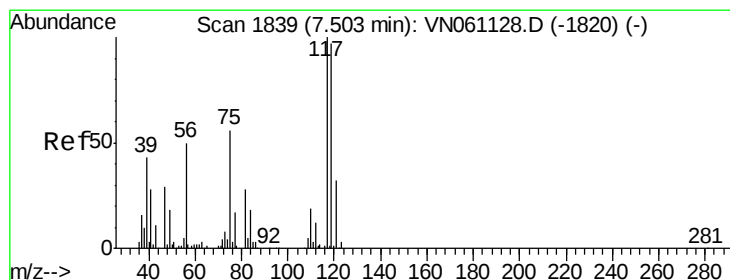
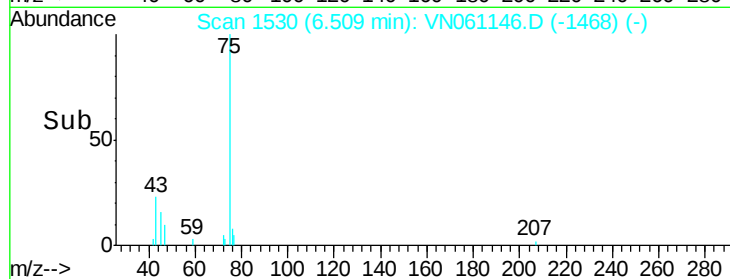
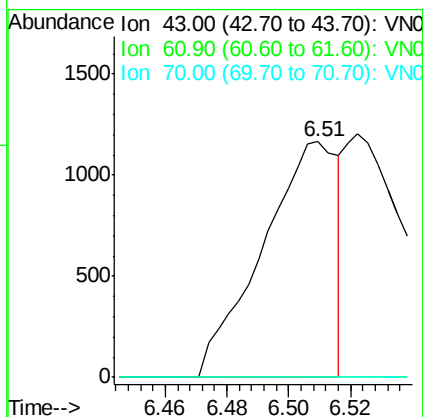
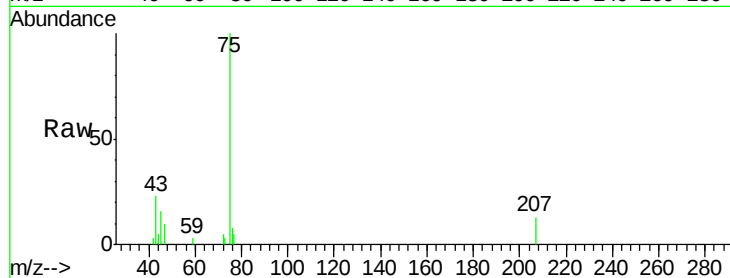




#37
 Ethyl Acetate
 Concen: 0.65 ug/l
 RT: 6.51 min Scan# 1530
 Delta R.T. -0.10 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

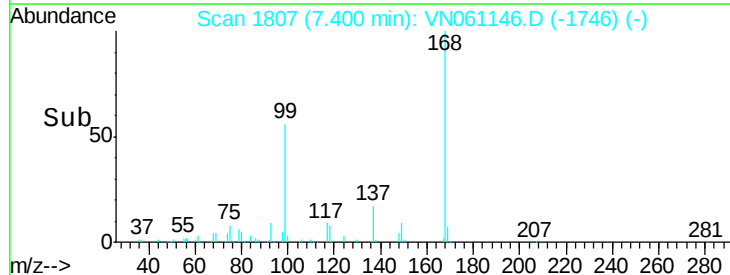
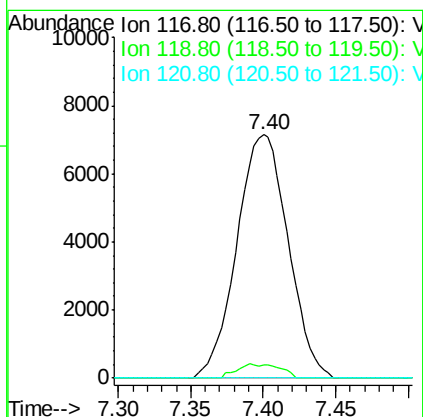
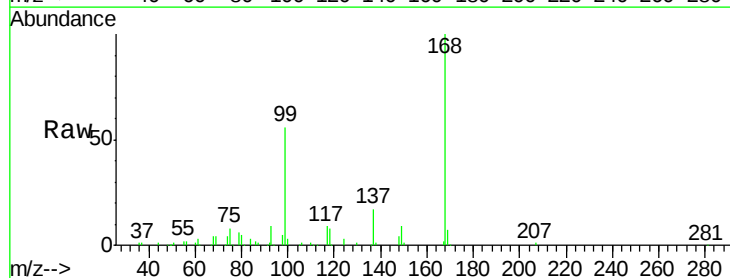
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 TP-1B-D

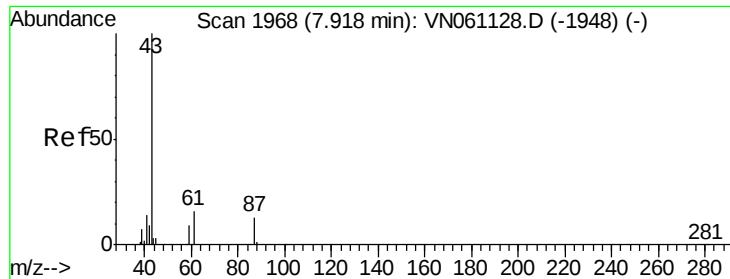
Tgt Ion: 43 Resp: 1969
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.0#
 70 0.0 8.2 12.4#



#38
 Carbon Tetrachloride
 Concen: 6.68 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.10 min
 Lab File: VN061146.D
 Acq: 22 Apr 2020 22:33

Tgt Ion: 117 Resp: 17567
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.9 115.3#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 10.61 ug/l

RT: 7.92 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

TP-1B-D

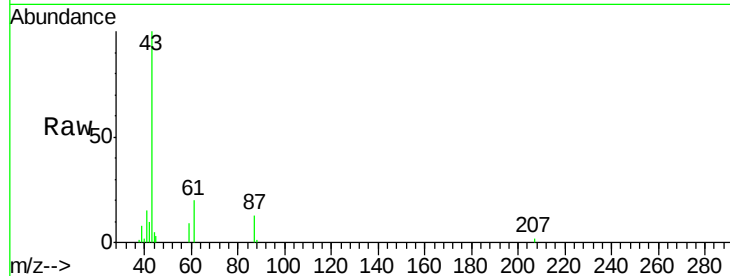
Tgt Ion: 43 Resp: 54264

Ion Ratio Lower Upper

43 100

61 19.7 15.5 23.3

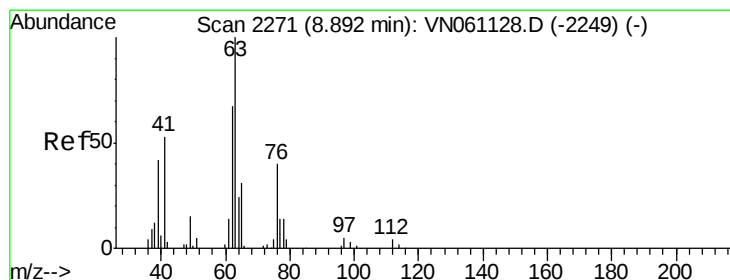
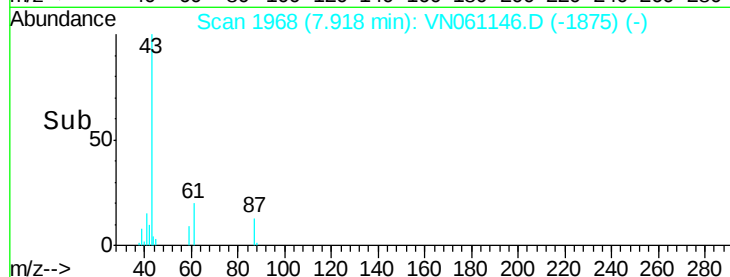
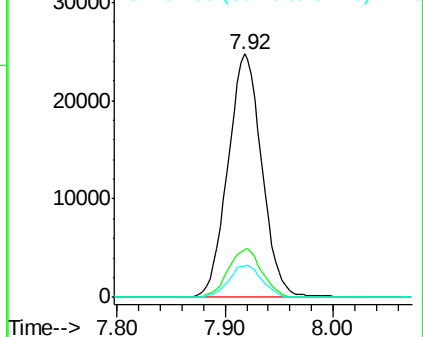
87 12.8 10.2 15.4



Abundance Ion 43.00 (42.70 to 43.70): VN061128.D (-1948) (-)

Ion 61.00 (60.70 to 61.70): VN061128.D (-1948) (-)

Ion 87.00 (86.70 to 87.70): VN061128.D (-1948) (-)



#45

1,2-Dichloropropane

Concen: 0.45 ug/l

RT: 9.06 min Scan# 2322

Delta R.T. 0.16 min

Lab File: VN061146.D

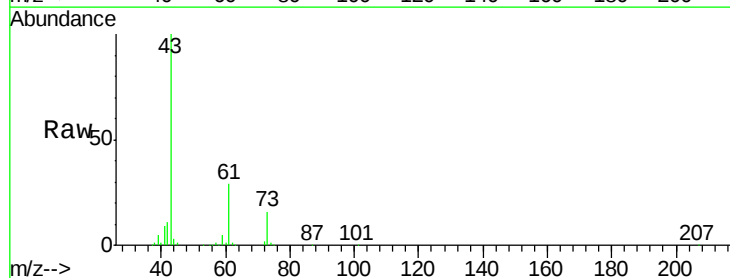
Acq: 22 Apr 2020 22:33

Tgt Ion: 63 Resp: 1070

Ion Ratio Lower Upper

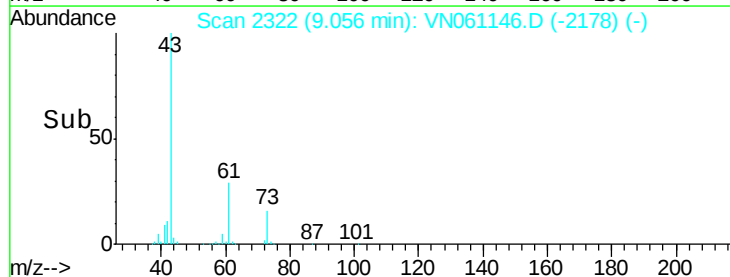
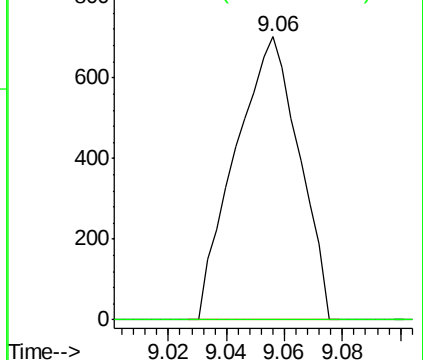
63 100

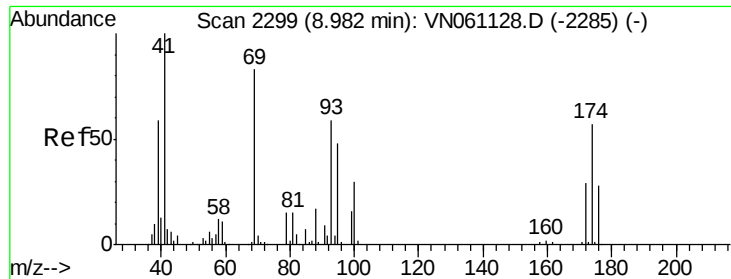
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN061128.D (-2249) (-)

Ion 64.90 (64.60 to 65.60): VN061128.D (-2249) (-)

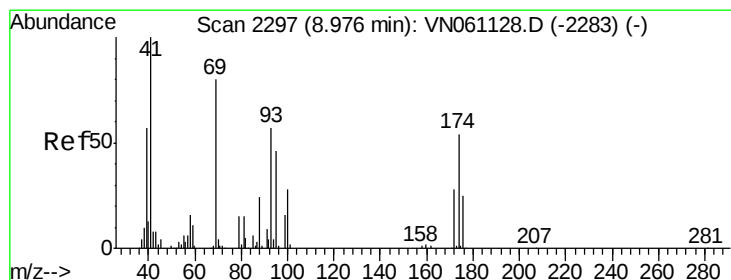
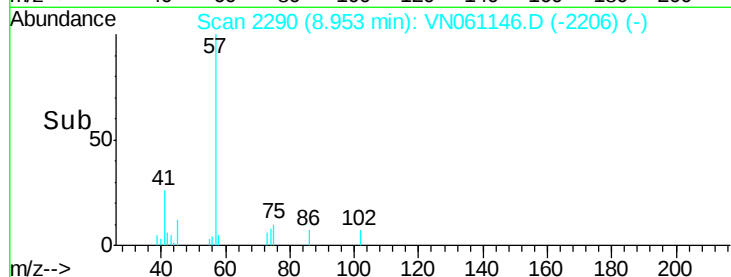
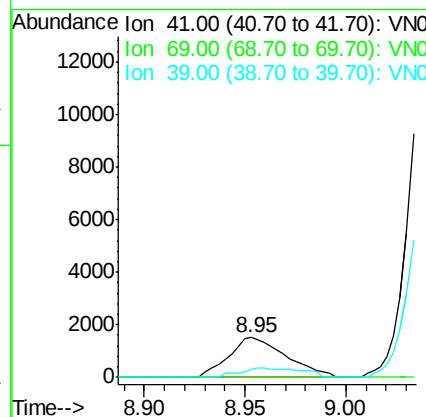
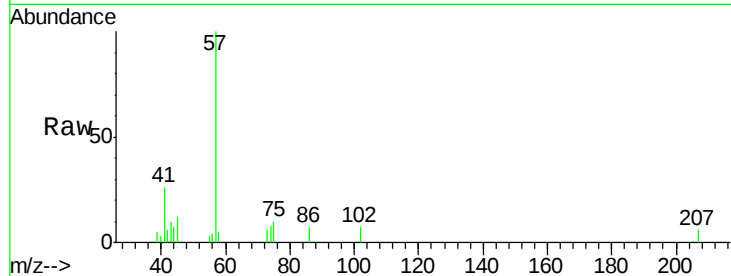




#48
Methyl methacrylate
Concen: 1.24 ug/l
RT: 8.95 min Scan# 2290
Delta R.T. -0.03 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

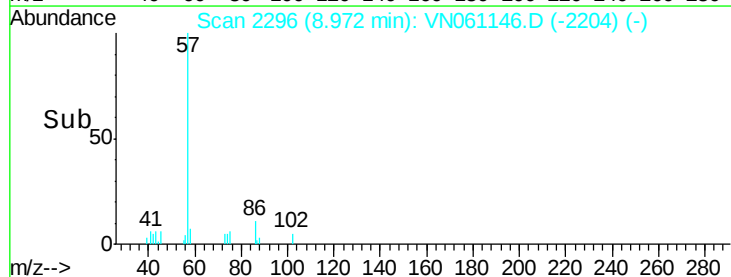
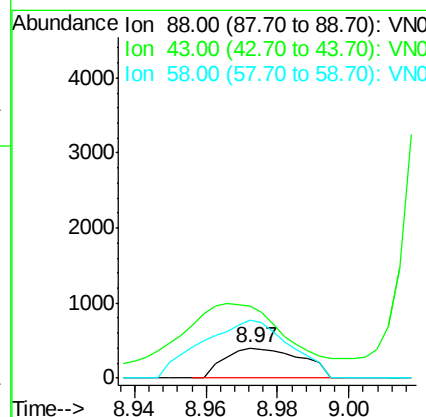
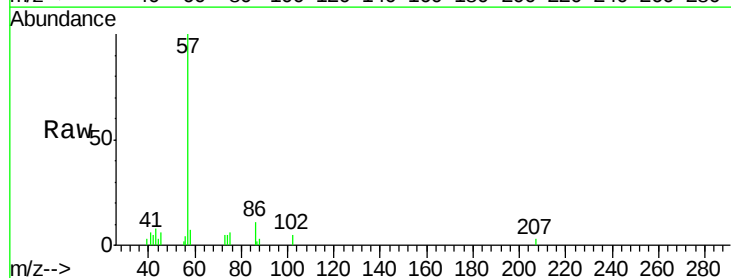
Instrument :
MSVOA_N
ClientSampled :
TP-1B-D

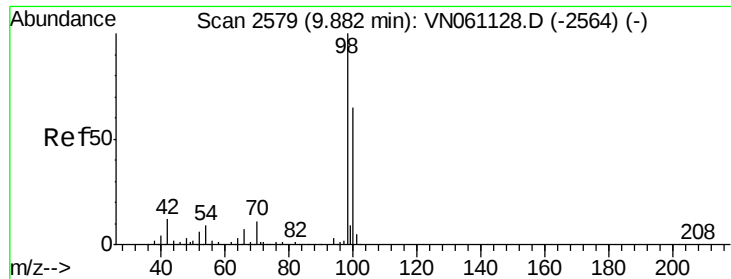
Tgt Ion: 41 Resp: 2996
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.2#
39 0.0 47.8 71.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 8.97 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

Tgt Ion: 88 Resp: 590
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 223.1 57.8 86.6#

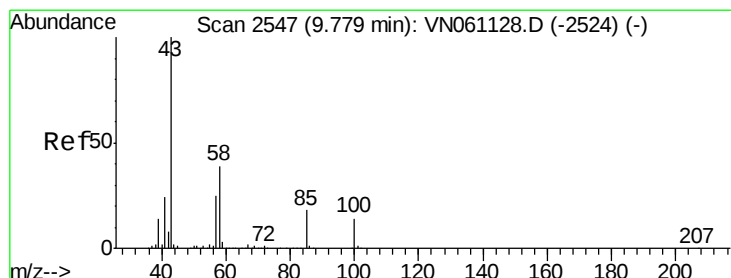
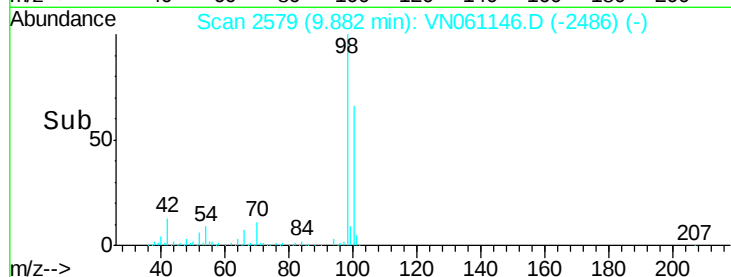
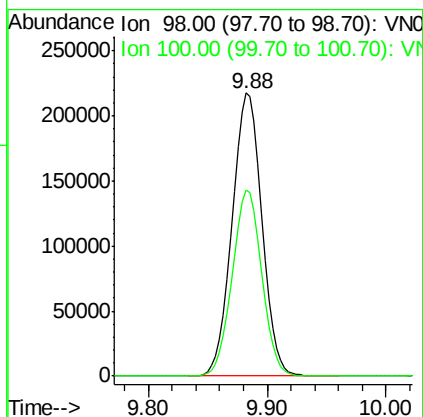
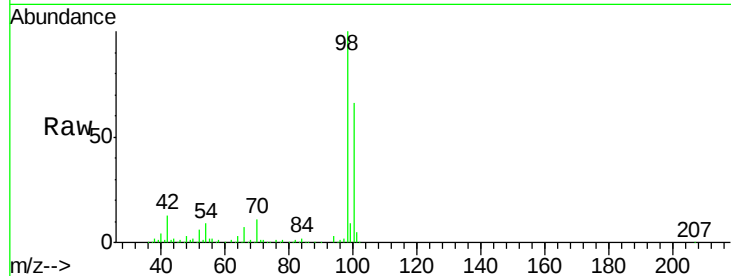




#50
Toluene-d8
Concen: 50.30 ug/l
RT: 9.88 min Scan# 2579
Delta R.T. -0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

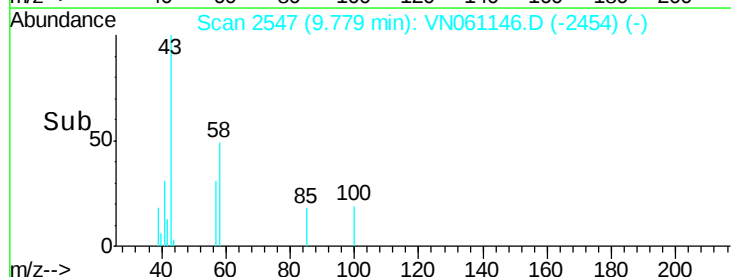
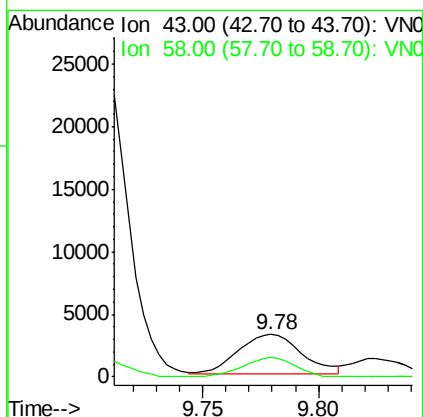
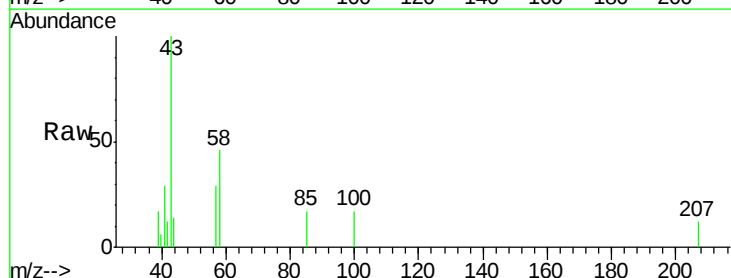
Instrument :
MSVOA_N
ClientSampleId :
TP-1B-D

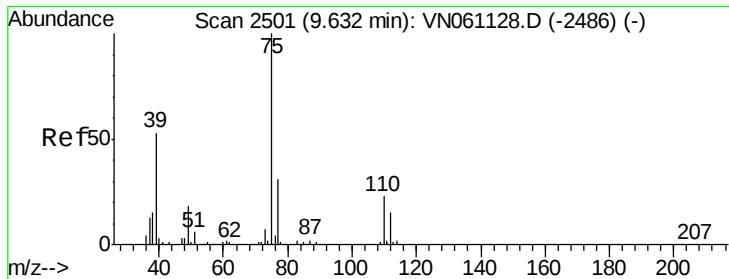
Tgt Ion: 98 Resp: 378222
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.05 ug/l
RT: 9.78 min Scan# 2547
Delta R.T. -0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

Tgt Ion: 43 Resp: 6110
Ion Ratio Lower Upper
43 100
58 40.1 31.0 46.6





#54

cis-1,3-Dichloropropene

Concen: 6.08 ug/l

RT: 9.70 min Scan# 2523

Delta R.T. 0.07 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

TP-1B-D

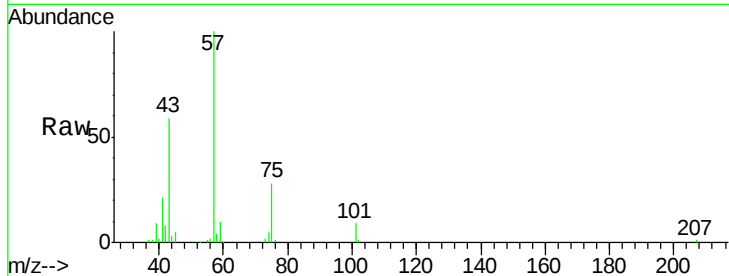
Tgt Ion: 75 Resp: 23016

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

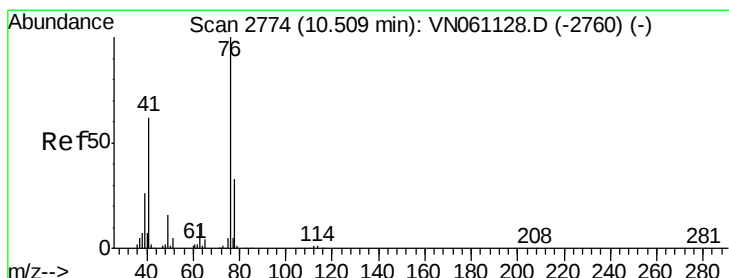
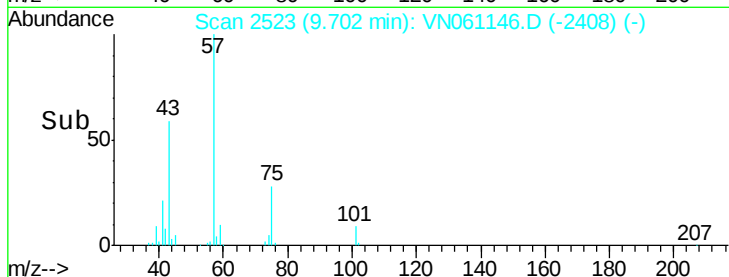
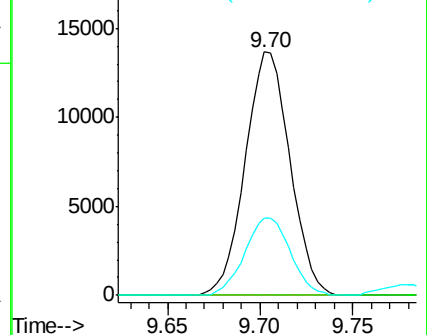
39 31.8 42.1 63.1#



Abundance Ion 74.90 (74.60 to 75.60): VN061128.D (-2486) (-)

Ion 76.90 (76.60 to 77.60): VN061128.D (-2486) (-)

Ion 39.00 (38.70 to 39.70): VN061128.D (-2486) (-)



#57

1,3-Dichloropropane

Concen: 1.08 ug/l

RT: 10.57 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN061146.D

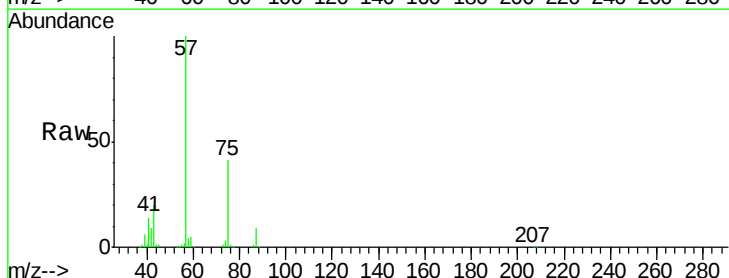
Acq: 22 Apr 2020 22:33

Tgt Ion: 76 Resp: 3916

Ion Ratio Lower Upper

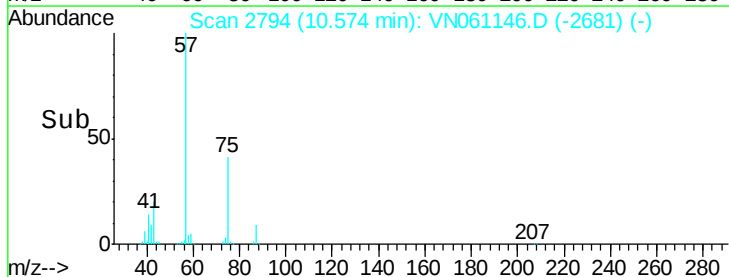
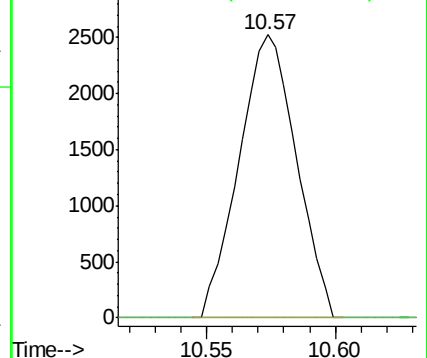
76 100

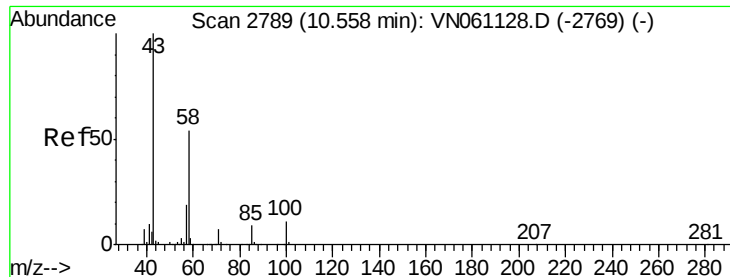
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN061128.D (-2760) (-)

Ion 77.90 (77.60 to 78.60): VN061128.D (-2760) (-)





#59

2-Hexanone

Concen: 26.09 ug/l

RT: 10.57 min Scan# 2794

Delta R.T. 0.02 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

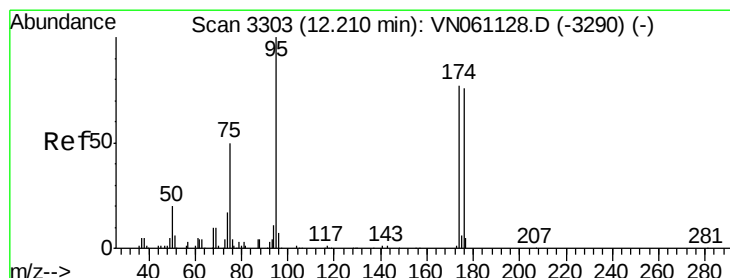
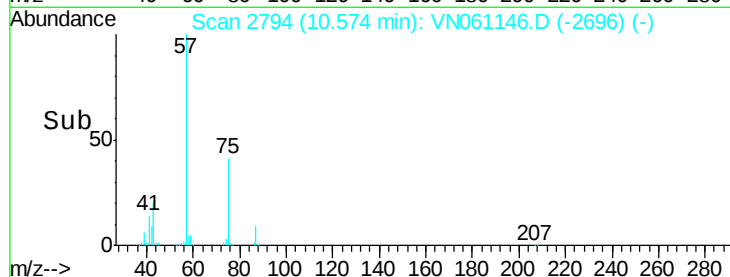
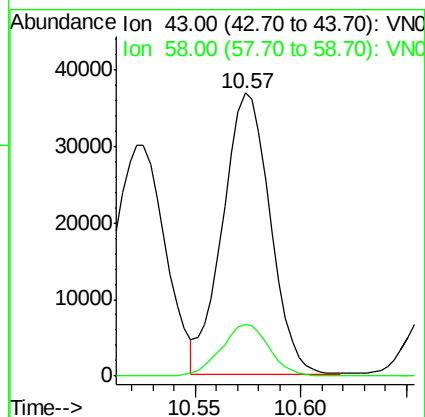
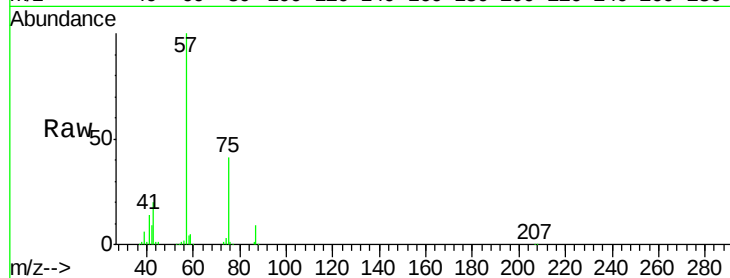
TP-1B-D

Tgt Ion: 43 Resp: 57545

Ion Ratio Lower Upper

43 100

58 18.4 26.9 80.6#



#62

4-Bromofluorobenzene

Concen: 52.80 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

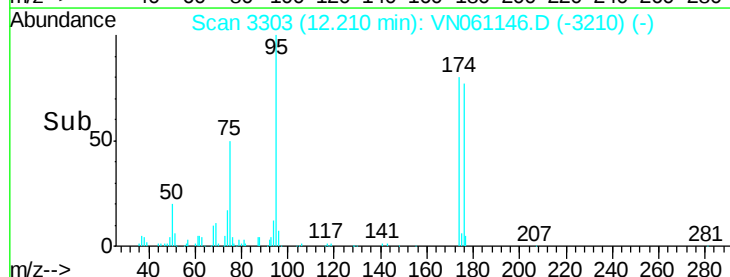
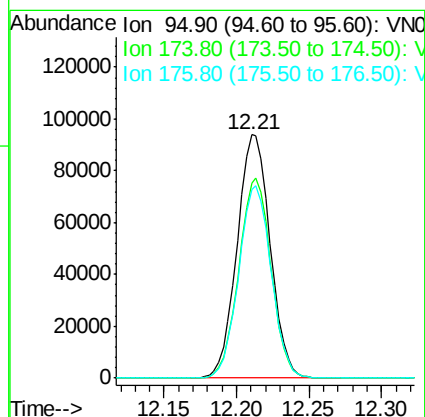
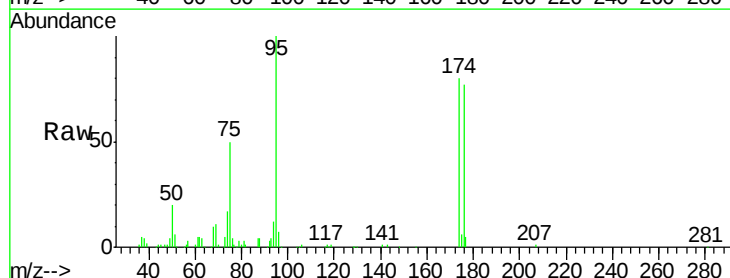
Tgt Ion: 95 Resp: 148674

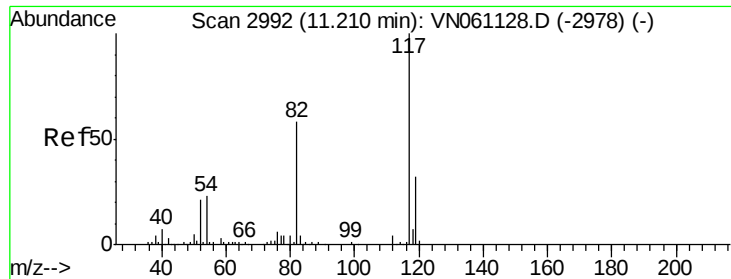
Ion Ratio Lower Upper

95 100

174 80.2 0.0 157.6

176 77.8 0.0 154.4

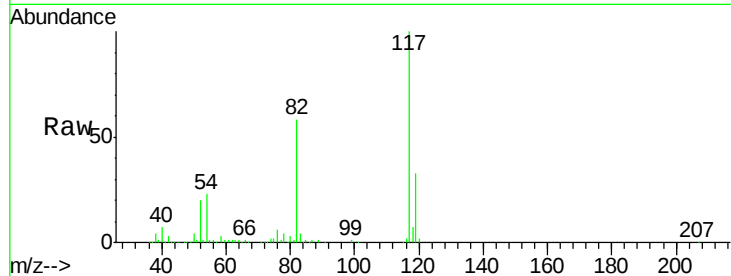




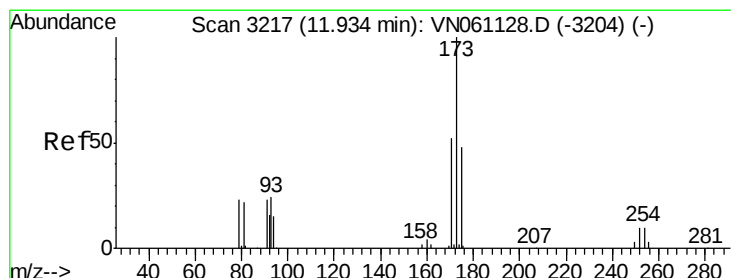
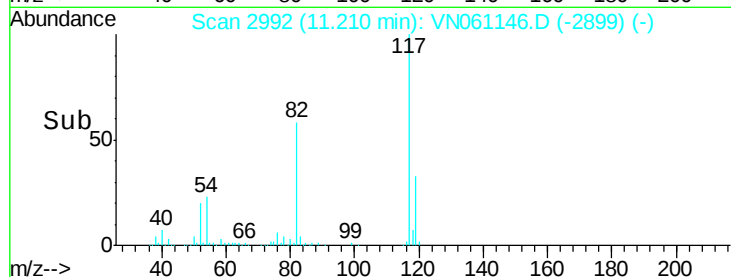
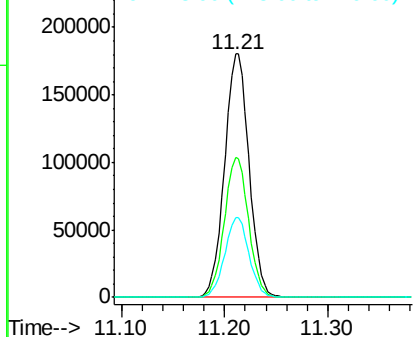
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.21 min Scan# 2992
Delta R.T. -0.00 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

Instrument :
MSVOA_N
ClientSampleId :
TP-1B-D

Tgt Ion:117 Resp: 297958
Ion Ratio Lower Upper
117 100
82 57.6 46.0 69.0
119 32.7 25.9 38.9

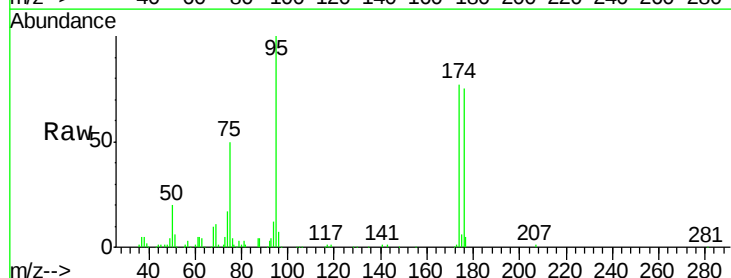


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

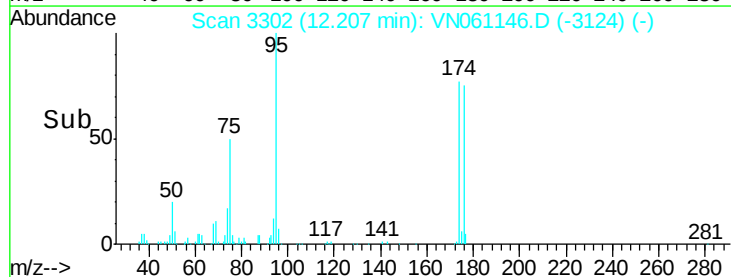
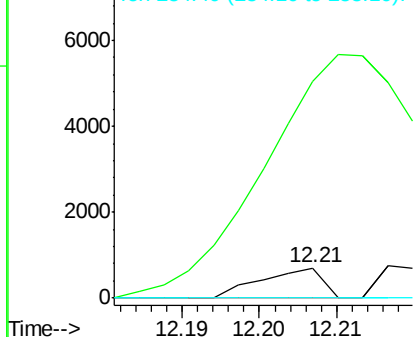


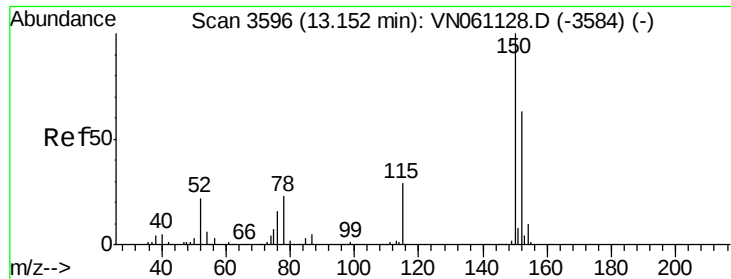
#71
Bromoform
Concen: 0.24 ug/l
RT: 12.21 min Scan# 3302
Delta R.T. 0.27 min
Lab File: VN061146.D
Acq: 22 Apr 2020 22:33

Tgt Ion:173 Resp: 393
Ion Ratio Lower Upper
173 100
175 1813.0 23.9 71.8#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampleId :

TP-1B-D

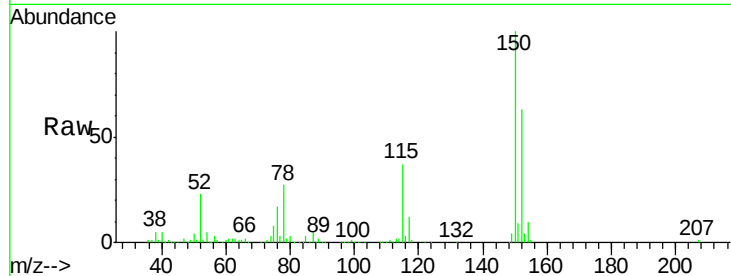
Tgt Ion:152 Resp: 148355

Ion Ratio Lower Upper

152 100

115 58.3 29.8 89.5

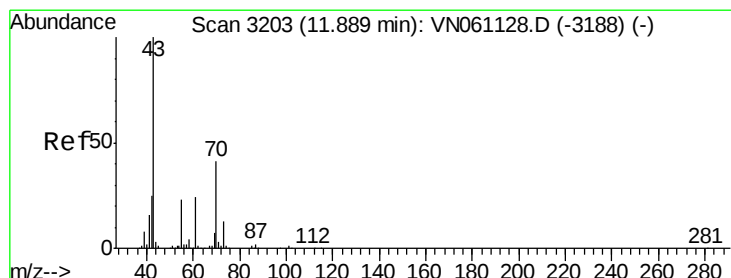
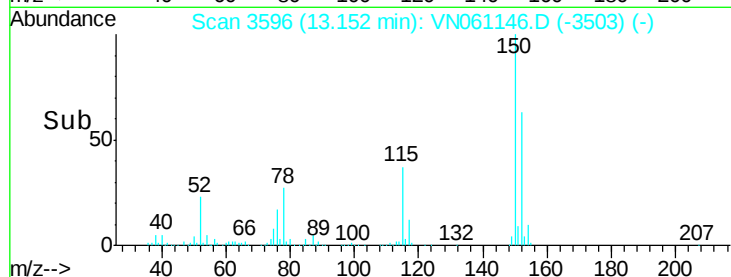
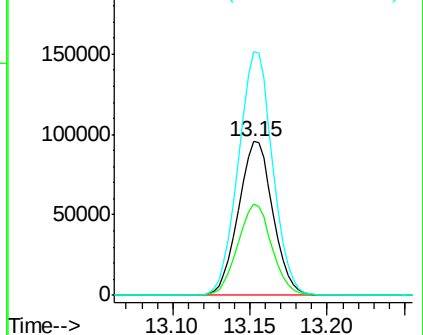
150 157.4 0.0 348.6



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-ethyl acetate

Concen: 0.64 ug/l

RT: 11.84 min Scan# 3188

Delta R.T. -0.05 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Tgt Ion: 43 Resp: 3226

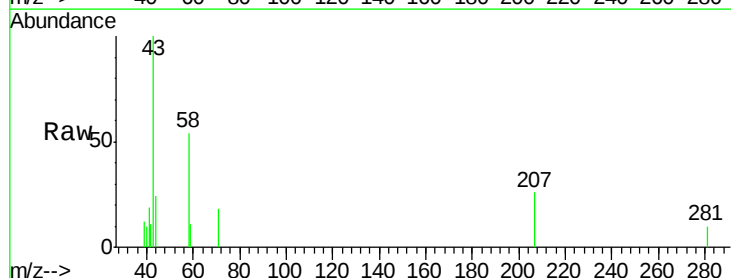
Ion Ratio Lower Upper

43 100

70 0.0 32.5 48.7#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

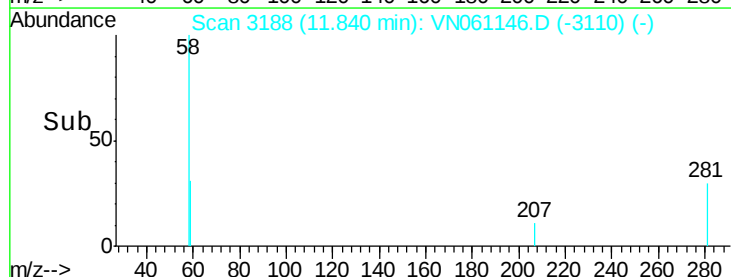
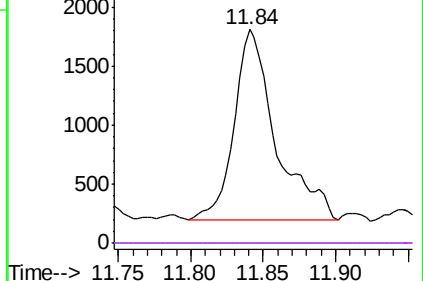


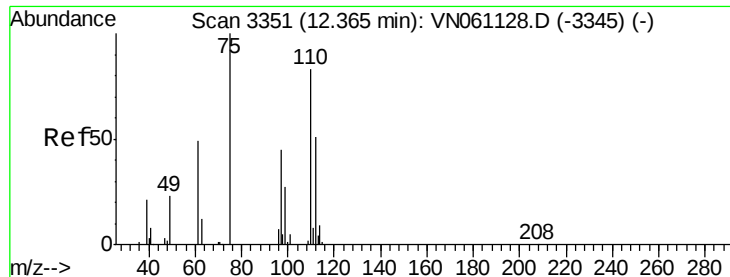
Abundance Ion 43.00 (42.70 to 43.70): V

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: 21.99 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

Instrument :

MSVOA_N

ClientSampled :

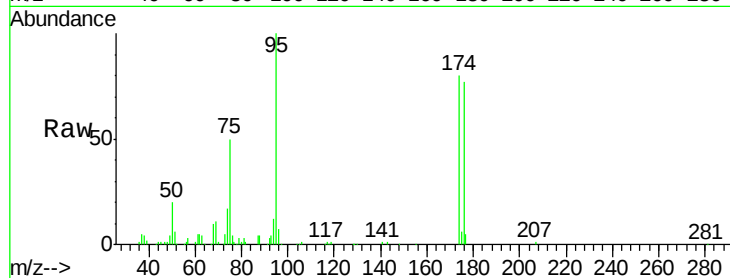
TP-1B-D

Tgt Ion: 75 Resp: 75260

Ion Ratio Lower Upper

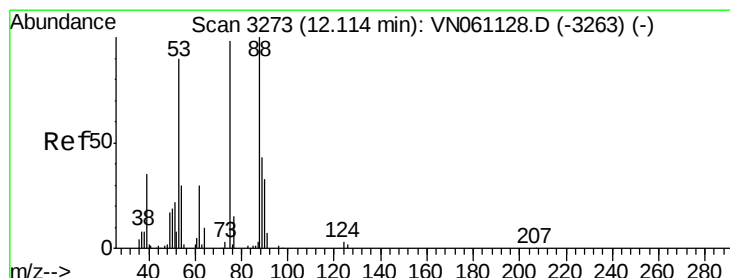
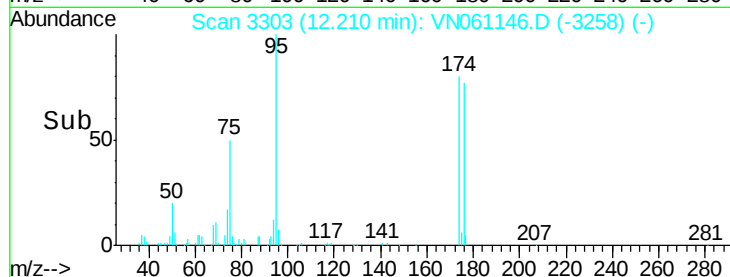
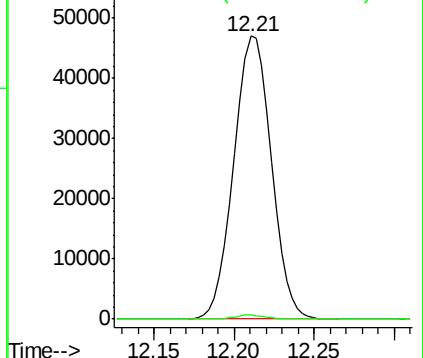
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.76 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061146.D

Acq: 22 Apr 2020 22:33

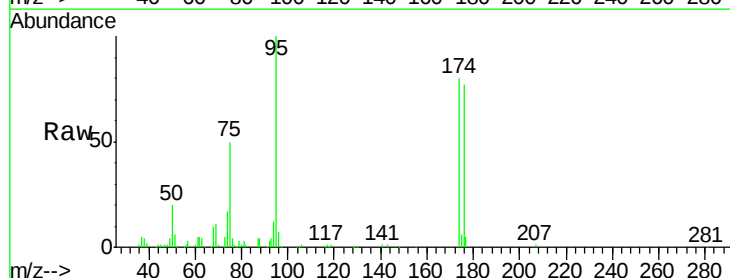
Tgt Ion: 75 Resp: 75260

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

89 0.0 36.6 55.0#



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

