

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042220\
 Data File : VN061144.D
 Acq On : 22 Apr 2020 21:48
 Operator : JC/MD
 Sample : L2331-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-19A

Quant Time: Apr 29 13:46:10 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	184171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	309123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	301978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	147052	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.77	65	119540	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
35) Dibromofluoromethane	7.31	113	88442	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
50) Toluene-d8	9.88	98	380708	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.21	95	150768	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	

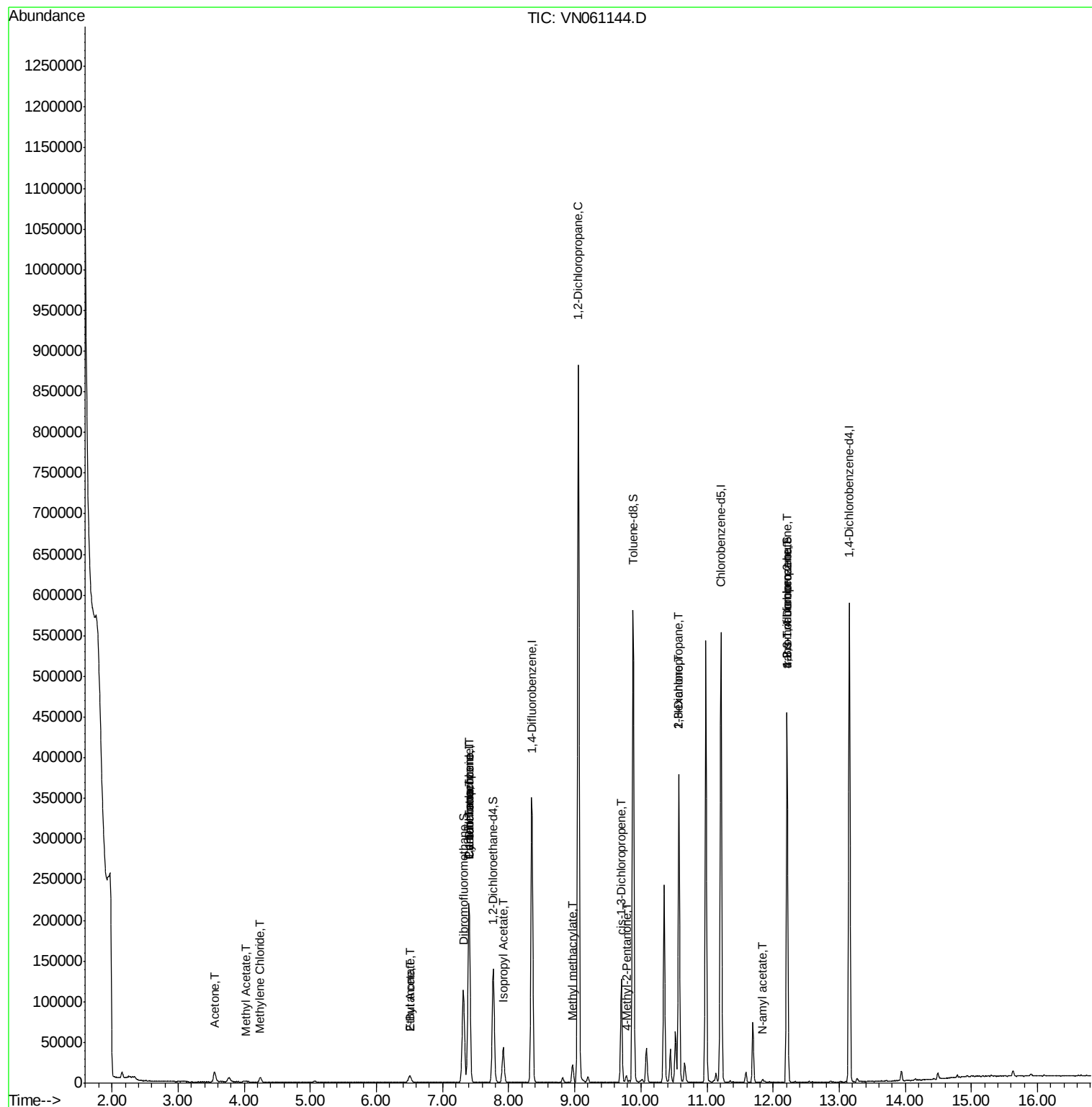
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	3.99	41	31	Below Cal	#	20
16) Acetone	3.55	43	20476	11.31	ug/l	98
18) Methyl Acetate	4.02	43	2915	0.56	ug/l #	72
20) Methylene Chloride	4.25	84	3739	1.75	ug/l	92
25) 2-Butanone	6.52	43	3459	2.60	ug/l	90
31) Cyclohexane	7.39	56	3955	1.05	ug/l #	10
36) 1,1-Dichloropropene	7.40	75	14223	4.71	ug/l #	49
37) Ethyl Acetate	6.52	43	3459	1.14	ug/l #	71
38) Carbon Tetrachloride	7.40	117	17599	6.65	ug/l #	16
43) Isopropyl Acetate	7.92	43	50523	9.82	ug/l	99
45) 1,2-Dichloropropane	9.05	63	1052	0.44	ug/l #	44
48) Methyl methacrylate	8.96	41	2709	1.12	ug/l #	14
49) 1,4-Dioxane	8.97	88	858	Below Cal	#	6
51) 4-Methyl-2-Pentanone	9.78	43	6182	2.06	ug/l	96
54) cis-1,3-Dichloropropene	9.71	75	22570	5.93	ug/l #	61
57) 1,3-Dichloropropane	10.57	76	3831	1.05	ug/l #	42
59) 2-Hexanone	10.57	43	53938	24.32	ug/l #	51
74) N-amyl acetate	11.84	43	2342	0.47	ug/l #	44
76) 1,2,3-Trichloropropane	12.21	75	76053	22.42	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	76053	58.88	ug/l #	12

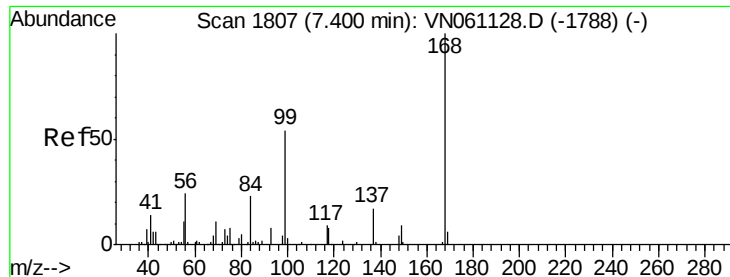
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 22 15:26:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampled :

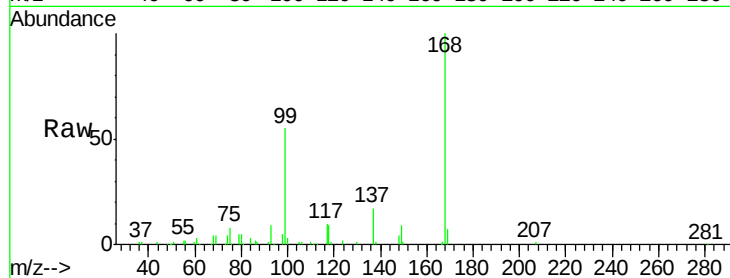
TP-19A

Tgt Ion:168 Resp: 184171

Ion Ratio Lower Upper

168 100

99 55.3 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.40

80000

60000

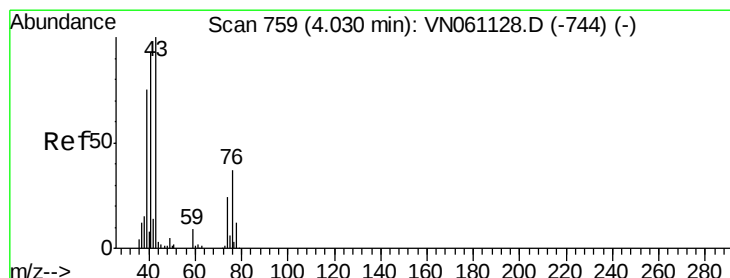
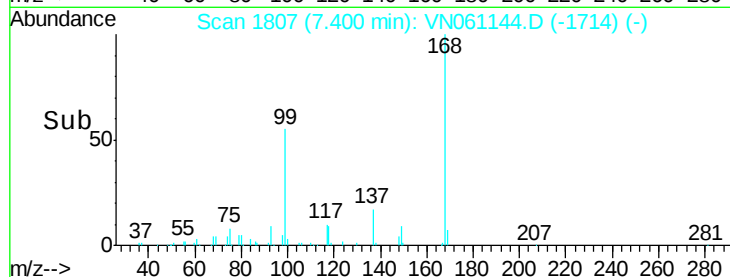
40000

20000

0

7.30 7.35 7.40 7.45 7.50

Time-->



#14

Allyl chloride

Concen: Below Cal

RT: 3.99 min Scan# 747

Delta R.T. -0.04 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

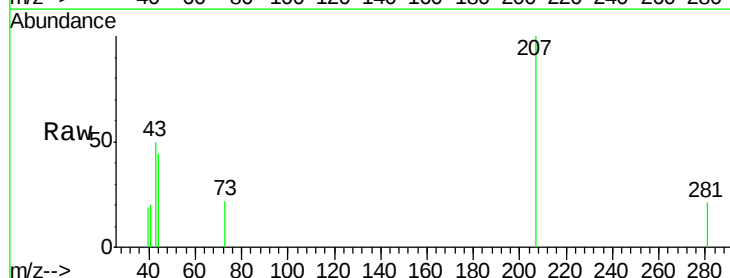
Tgt Ion: 41 Resp: 31

Ion Ratio Lower Upper

41 100

39 0.0 61.0 91.4#

76 0.0 28.9 43.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

3.99

200

150

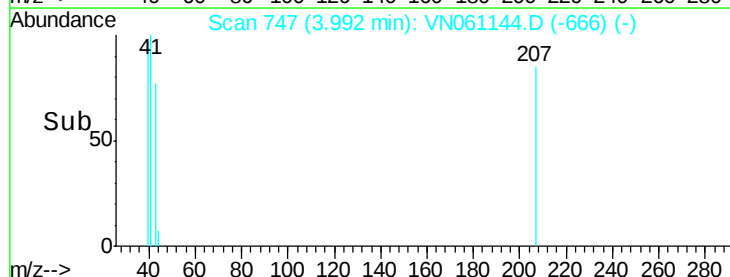
100

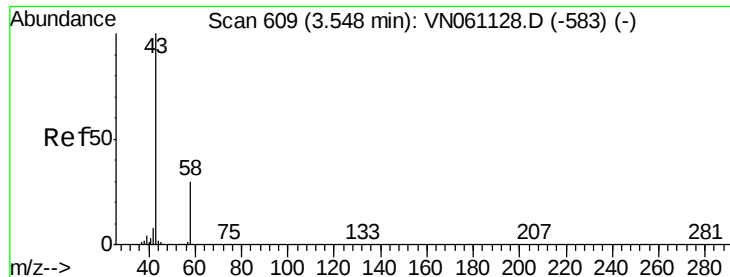
50

0

3.98 3.98 3.99 4.00 4.00

Time-->





#16

Acetone

Concen: 11.31 ug/l

RT: 3.55 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampled :

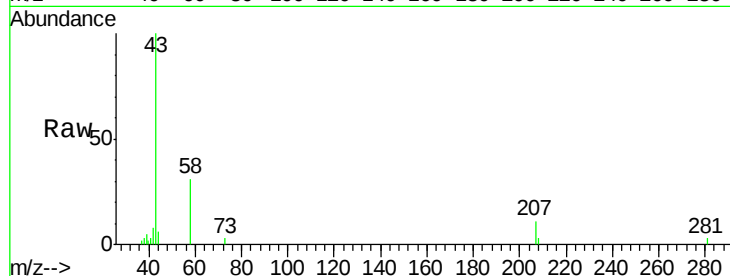
TP-19A

Tgt Ion: 43 Resp: 20476

Ion Ratio Lower Upper

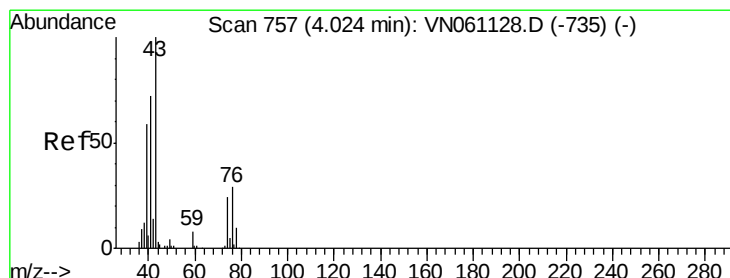
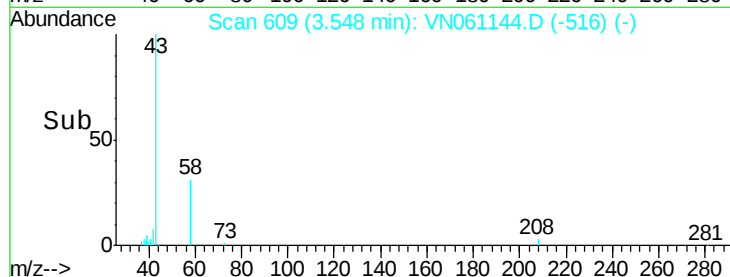
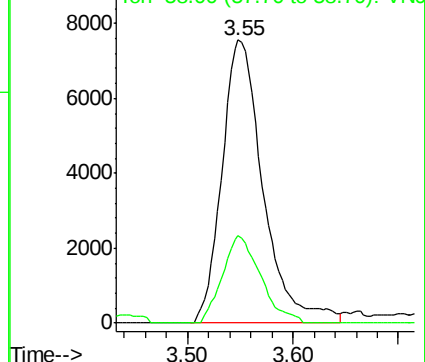
43 100

58 30.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.56 ug/l

RT: 4.02 min Scan# 757

Delta R.T. -0.00 min

Lab File: VN061144.D

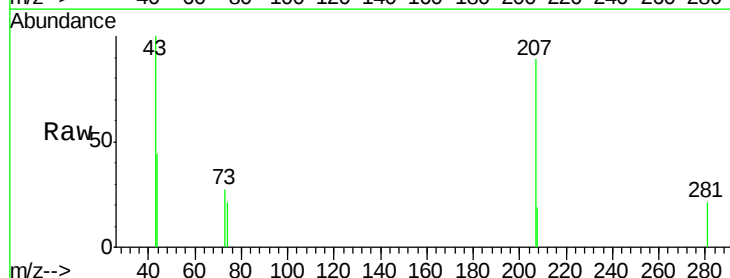
Acq: 22 Apr 2020 21:48

Tgt Ion: 43 Resp: 2915

Ion Ratio Lower Upper

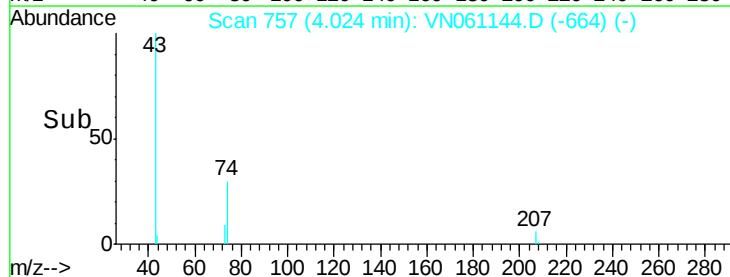
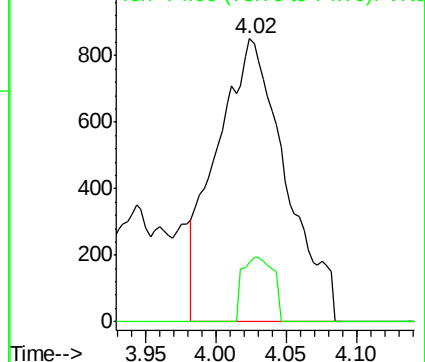
43 100

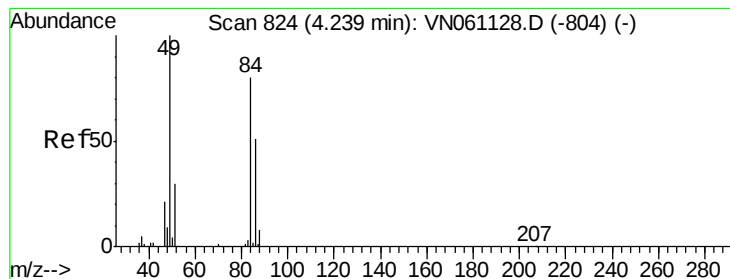
74 10.3 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 1.75 ug/l

RT: 4.25 min Scan# 826

Delta R.T. 0.01 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampled :

TP-19A

Tgt Ion: 84 Resp: 3739

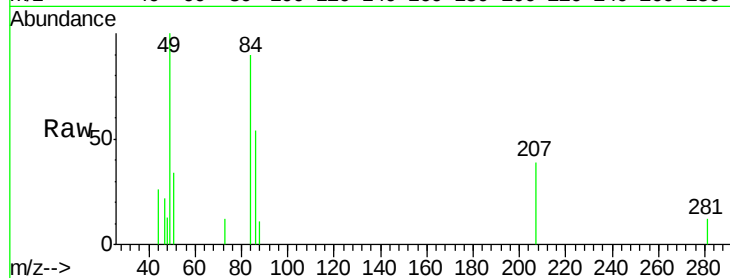
Ion Ratio Lower Upper

84 100

49 111.4 99.8 149.6

51 38.2 29.9 44.9

86 60.3 50.9 76.3

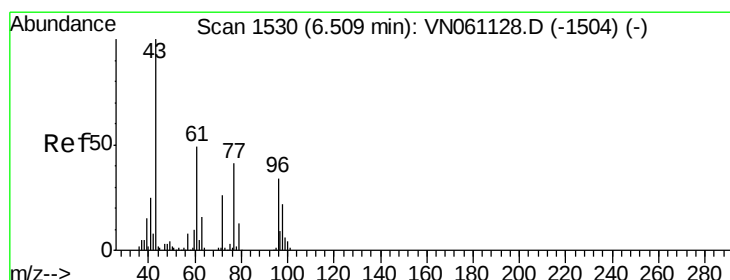
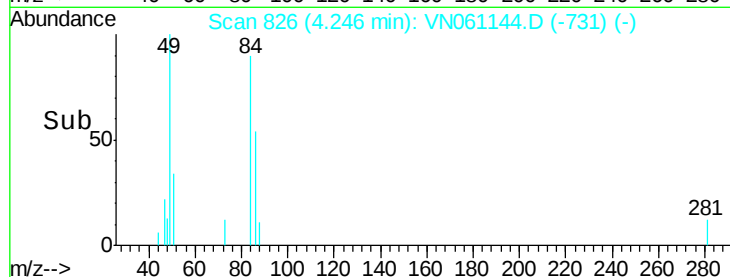
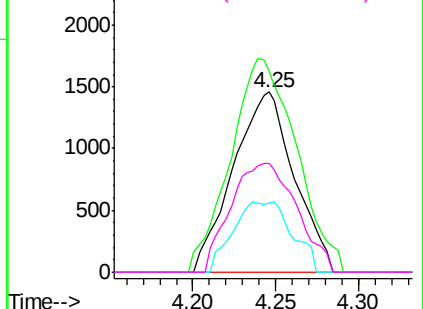


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.60 ug/l

RT: 6.52 min Scan# 1532

Delta R.T. 0.01 min

Lab File: VN061144.D

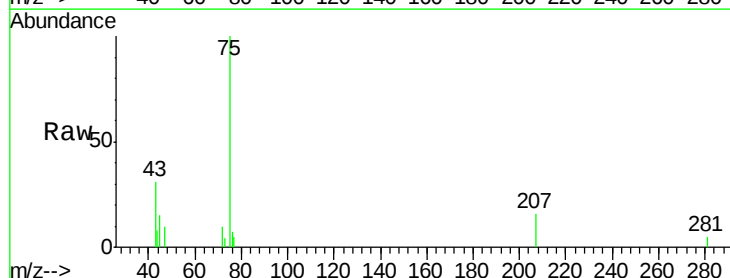
Acq: 22 Apr 2020 21:48

Tgt Ion: 43 Resp: 3459

Ion Ratio Lower Upper

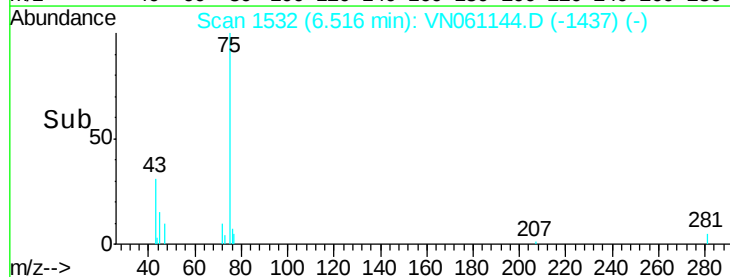
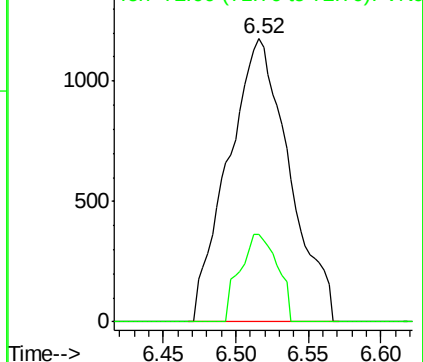
43 100

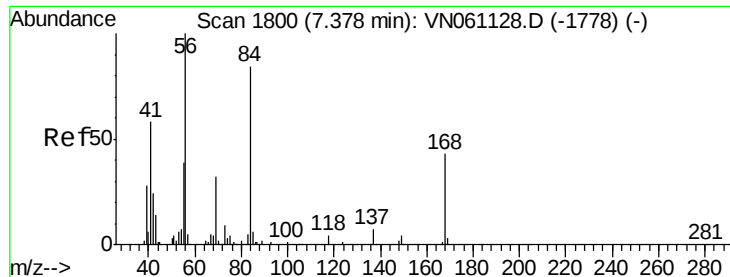
72 31.0 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

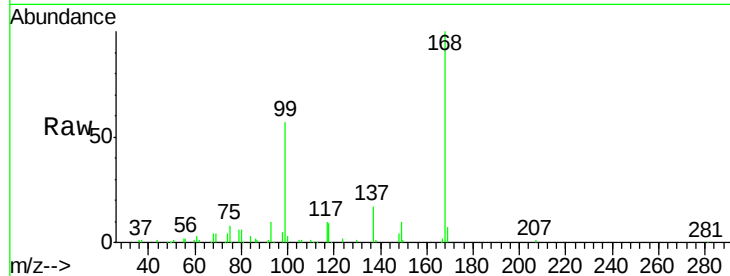




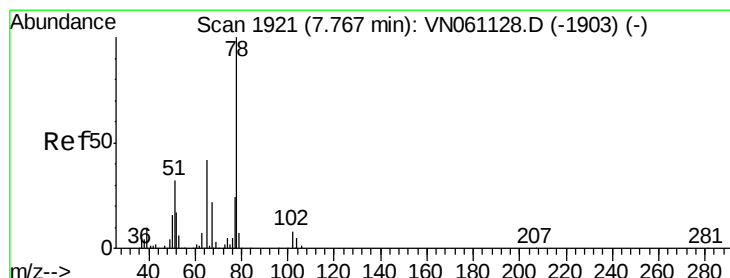
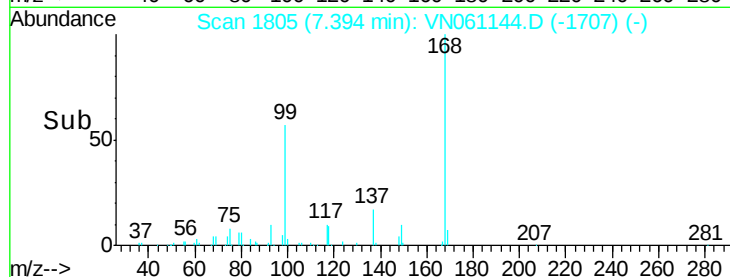
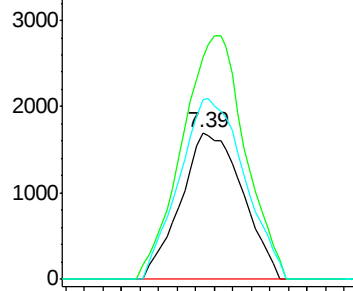
#31
Cyclohexane
Concen: 1.05 ug/l
RT: 7.39 min Scan# 1805
Delta R.T. 0.02 min
Lab File: VN061144.D
Acq: 22 Apr 2020 21:48

Instrument :
MSVOA_N
ClientSampled :
TP-19A

Tgt Ion: 56 Resp: 3955
Ion Ratio Lower Upper
56 100
69 151.4 25.9 38.9#
84 122.5 67.4 101.0#

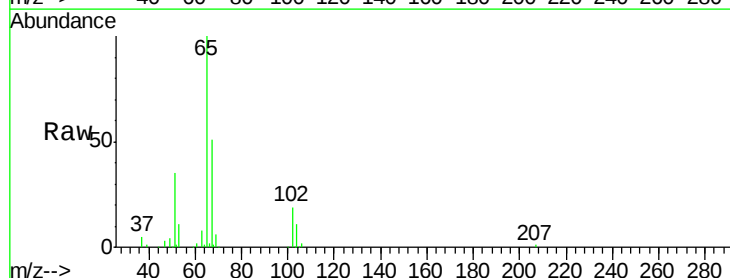


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

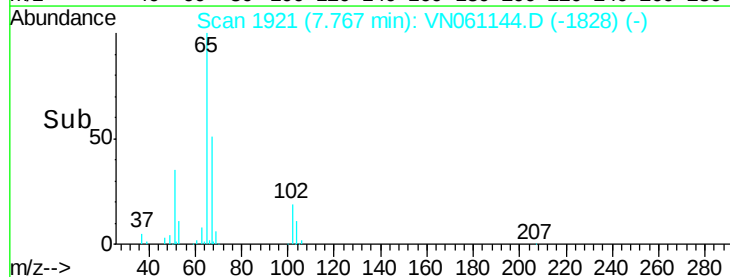
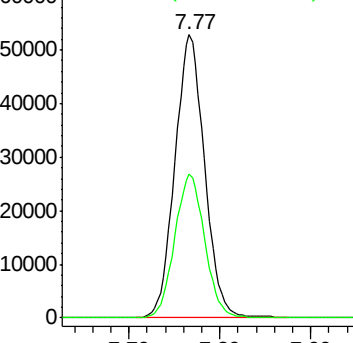


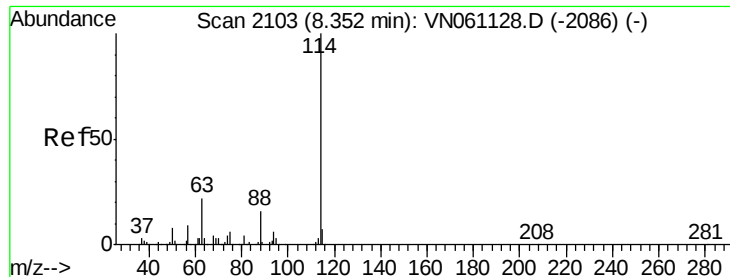
#33
1,2-Dichloroethane-d4
Concen: 48.95 ug/l
RT: 7.77 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VN061144.D
Acq: 22 Apr 2020 21:48

Tgt Ion: 65 Resp: 119540
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.8



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

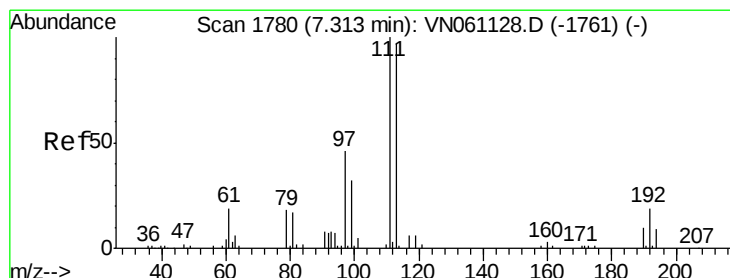
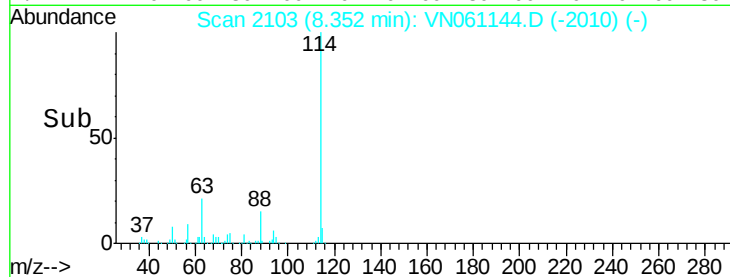
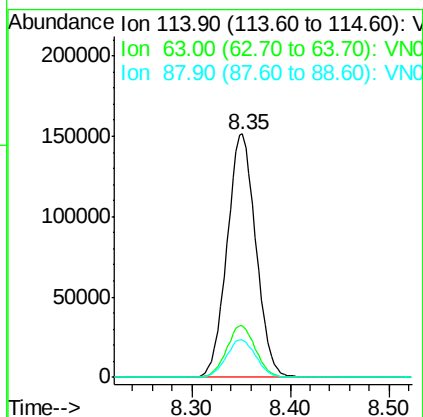
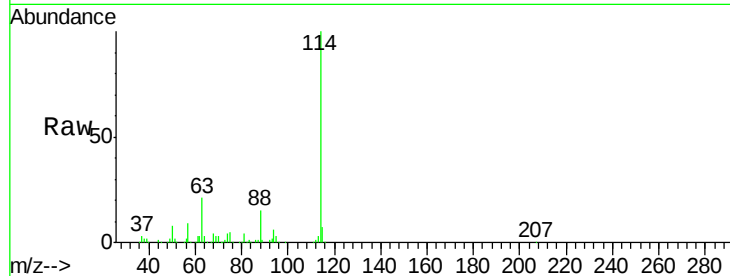




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.35 min Scan# 2103
 Delta R.T. -0.00 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

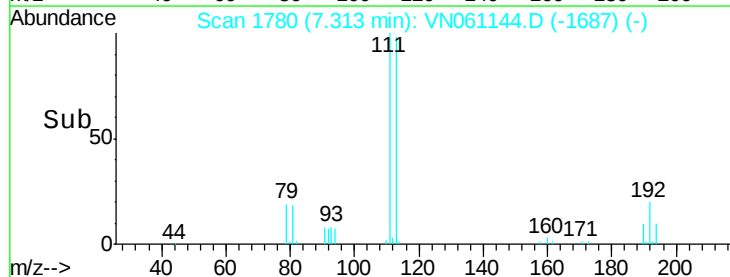
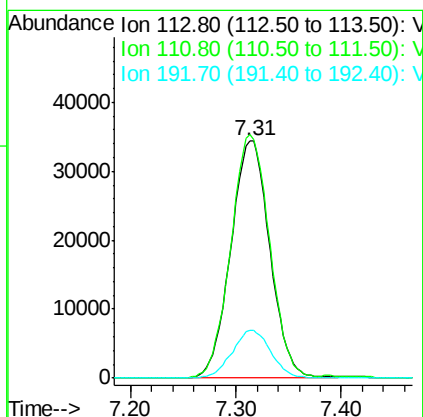
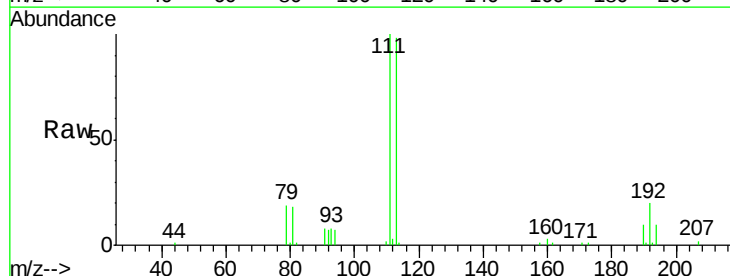
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-19A

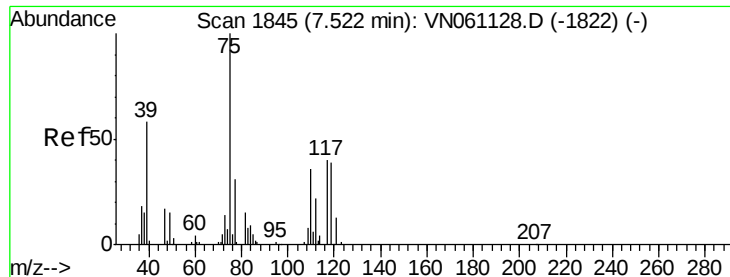
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.2
88	15.4	0.0	32.4



#35
 Dibromofluoromethane
 Concen: 50.13 ug/l
 RT: 7.31 min Scan# 1780
 Delta R.T. -0.00 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	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# 1807

Delta R.T. -0.12 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampleId :

TP-19A

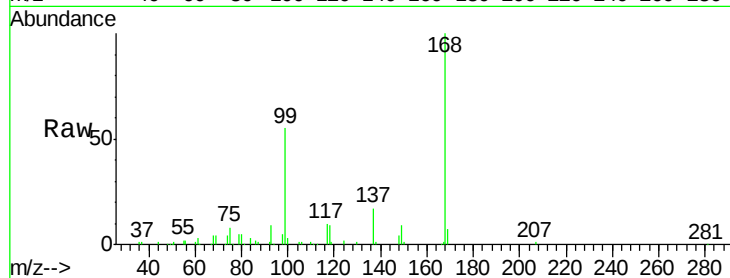
Tgt Ion: 75 Resp: 14223

Ion Ratio Lower Upper

75 100

110 8.0 17.7 53.1#

77 0.0 24.8 37.2#

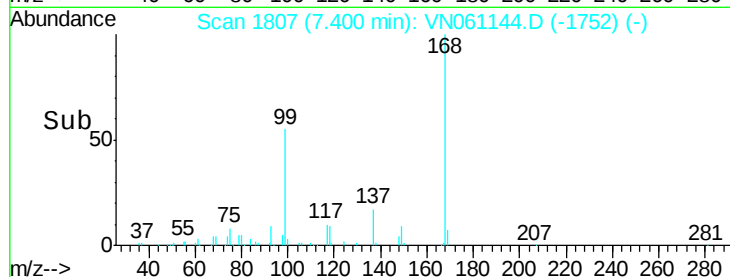


Abundance Ion 74.90 (74.60 to 75.60): VN061128.D (-1822) (-)

Ion 109.90 (109.60 to 110.60): VN061128.D (-1822) (-)

Ion 76.90 (76.60 to 77.60): VN061128.D (-1822) (-)

Time-->

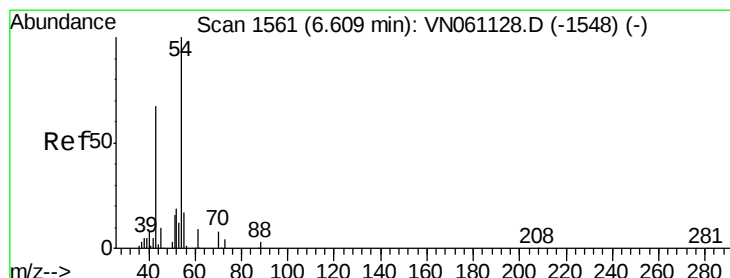


Abundance Ion 74.90 (74.60 to 75.60): VN061144.D (-1752) (-)

Ion 109.90 (109.60 to 110.60): VN061144.D (-1752) (-)

Ion 76.90 (76.60 to 77.60): VN061144.D (-1752) (-)

Time-->



#37

Ethyl Acetate

Concen: 1.14 ug/l

RT: 6.52 min Scan# 1532

Delta R.T. -0.09 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

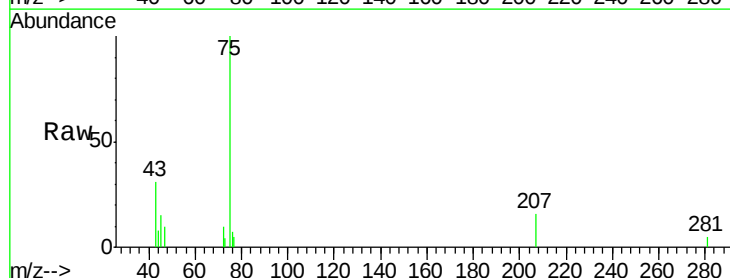
Tgt Ion: 43 Resp: 3459

Ion Ratio Lower Upper

43 100

61 1.8 11.4 17.0#

70 0.0 8.2 12.4#

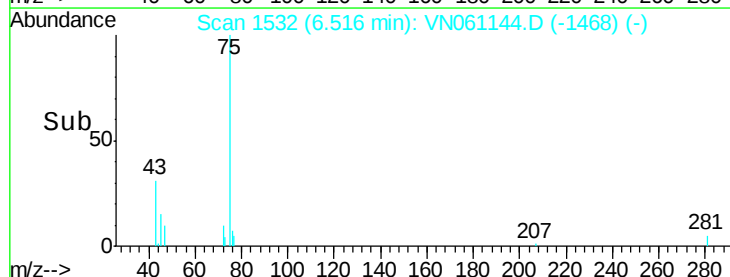


Abundance Ion 43.00 (42.70 to 43.70): VN061128.D (-1548) (-)

Ion 60.90 (60.60 to 61.60): VN061128.D (-1548) (-)

Ion 70.00 (69.70 to 70.70): VN061128.D (-1548) (-)

Time-->

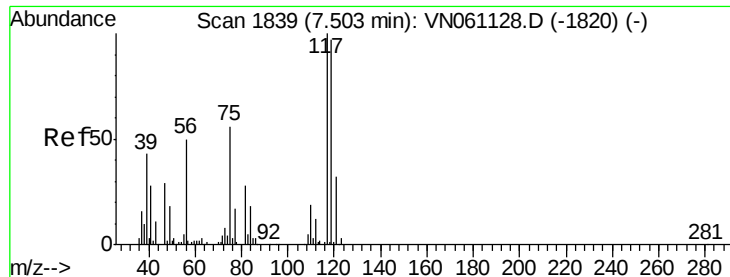


Abundance Ion 43.00 (42.70 to 43.70): VN061144.D (-1468) (-)

Ion 60.90 (60.60 to 61.60): VN061144.D (-1468) (-)

Ion 70.00 (69.70 to 70.70): VN061144.D (-1468) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.65 ug/l

RT: 7.40 min Scan# 1806

Delta R.T. -0.11 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampleId :

TP-19A

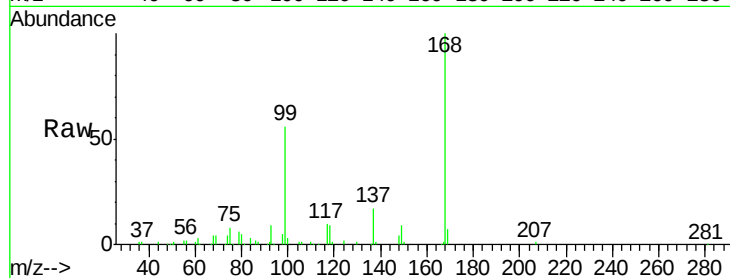
Tgt Ion:117 Resp: 17599

Ion Ratio Lower Upper

117 100

119 5.1 76.9 115.3#

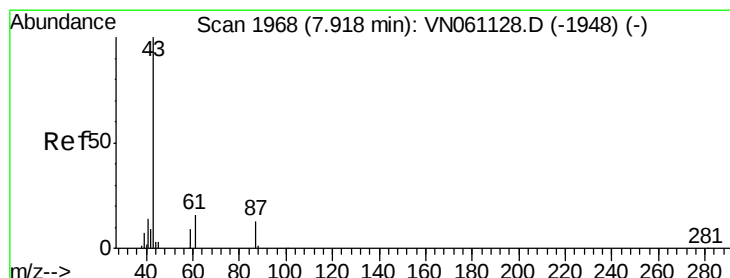
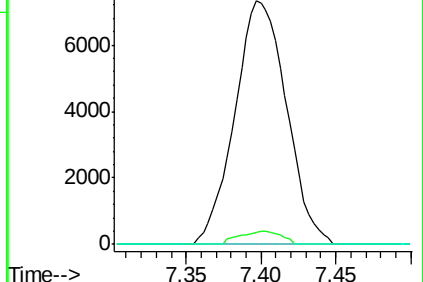
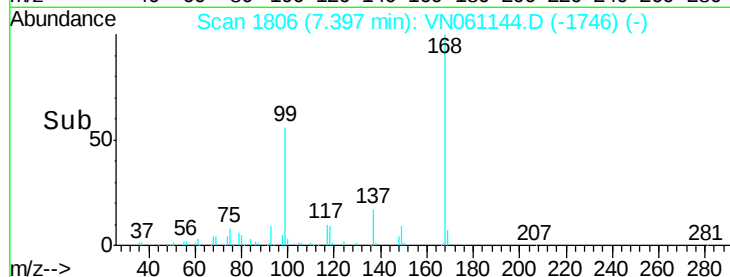
121 0.0 25.0 37.6#



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: 9.82 ug/l

RT: 7.92 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

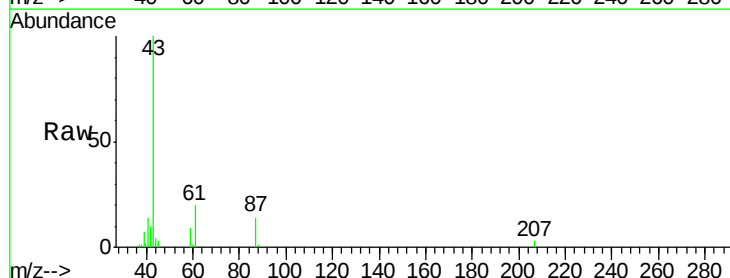
Tgt Ion: 43 Resp: 50523

Ion Ratio Lower Upper

43 100

61 19.5 15.5 23.3

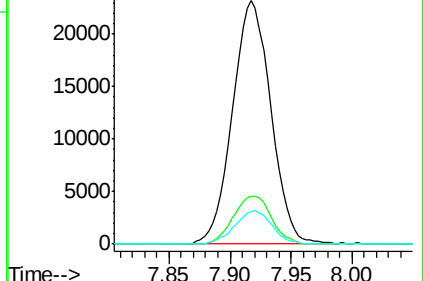
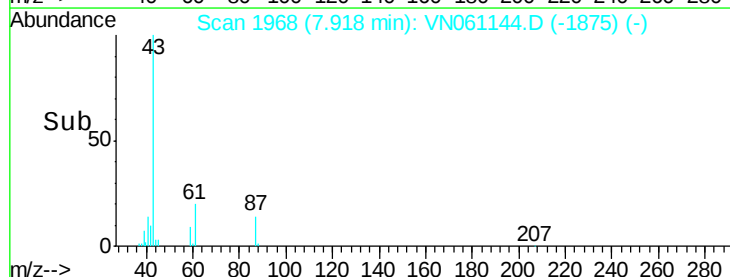
87 13.3 10.2 15.4

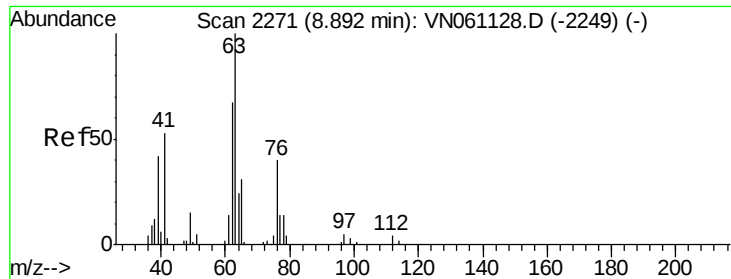


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

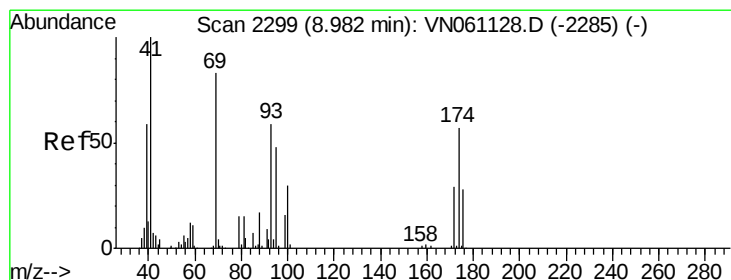
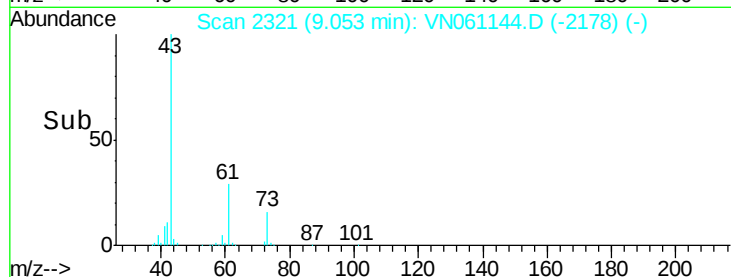
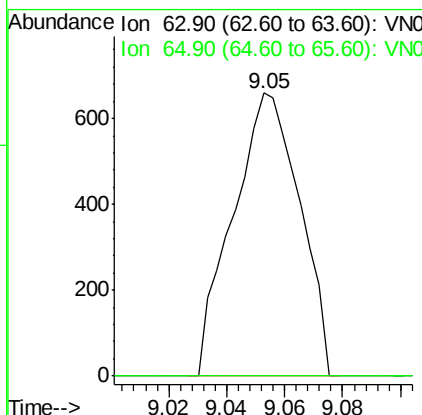
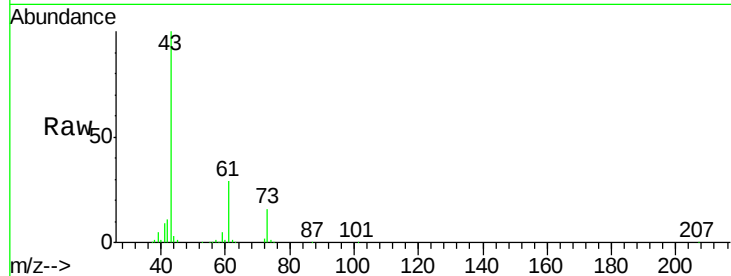




#45
 1,2-Dichloropropane
 Concen: 0.44 ug/l
 RT: 9.05 min Scan# 2321
 Delta R.T. 0.16 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

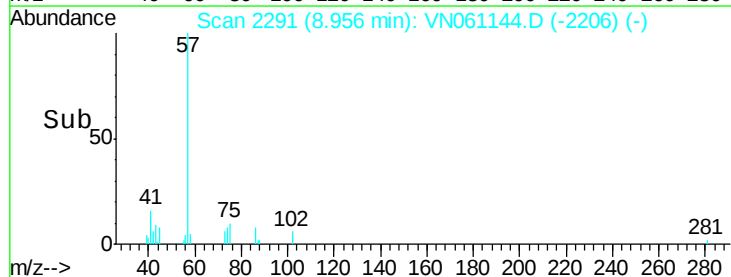
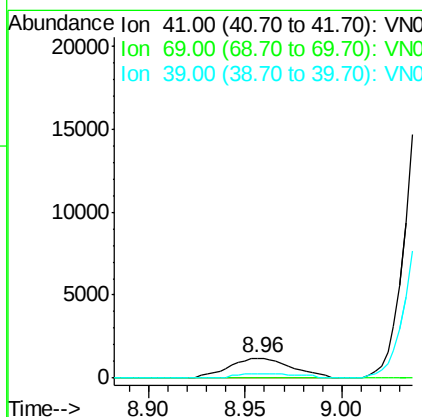
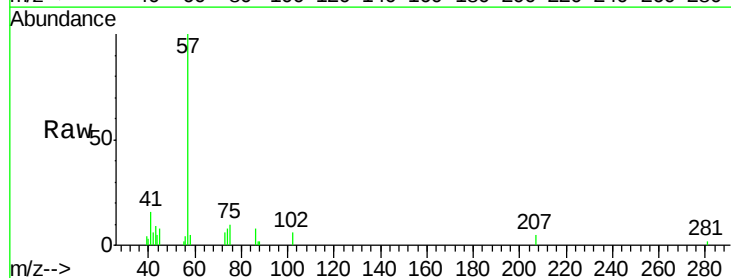
Instrument :
 MSVOA_N
 ClientSampled :
 TP-19A

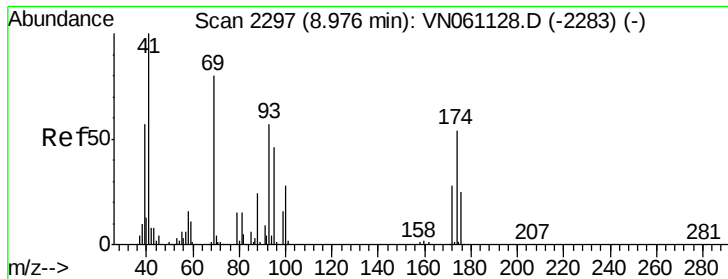
Tgt Ion: 63 Resp: 1052
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.12 ug/l
 RT: 8.96 min Scan# 2291
 Delta R.T. -0.03 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

Tgt Ion: 41 Resp: 2709
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.2#
 39 0.0 47.8 71.6#

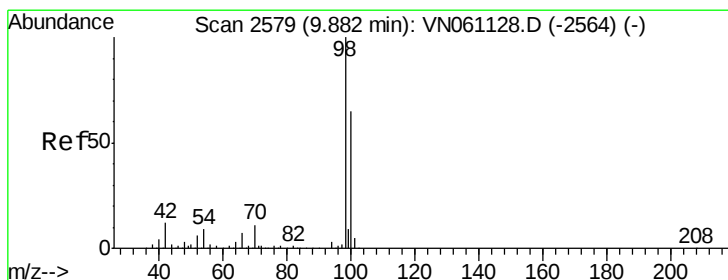
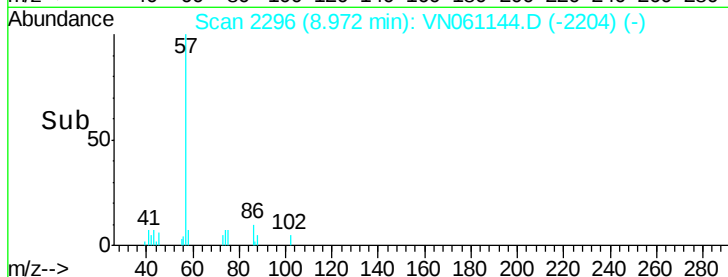
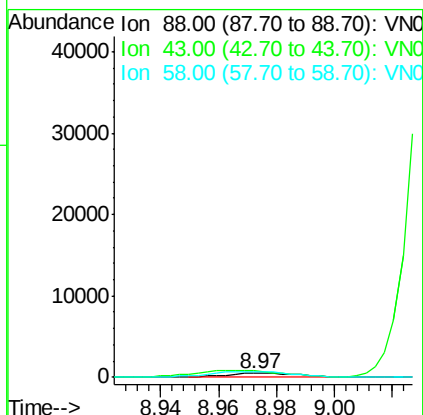
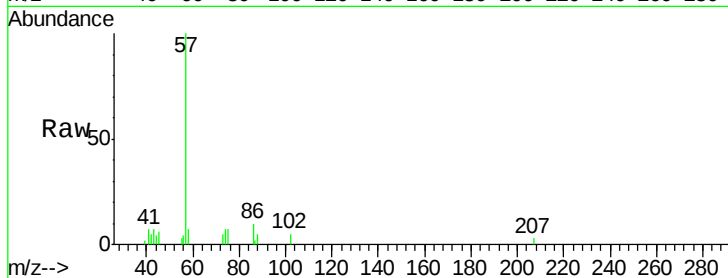




#49
1,4-Dioxane
Concen: Below Cal
RT: 8.97 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VN061144.D
Acq: 22 Apr 2020 21:48

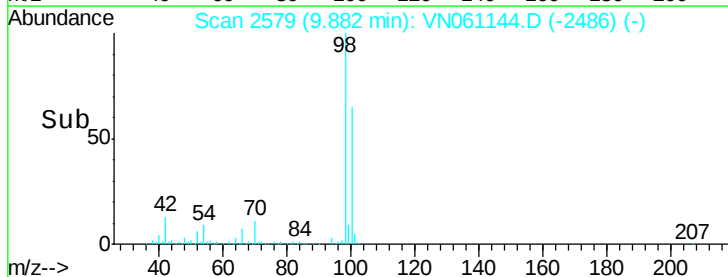
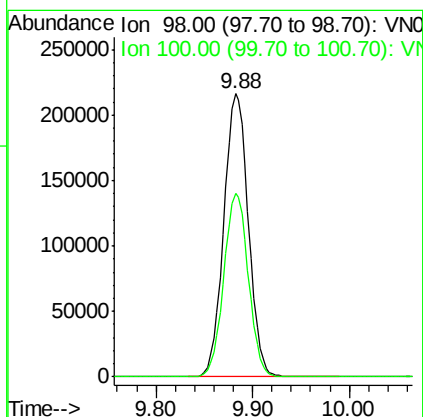
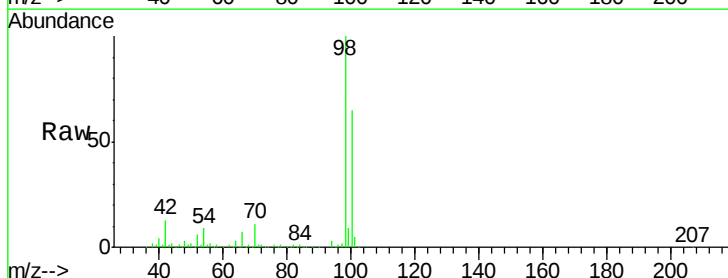
Instrument :
MSVOA_N
ClientSampleId :
TP-19A

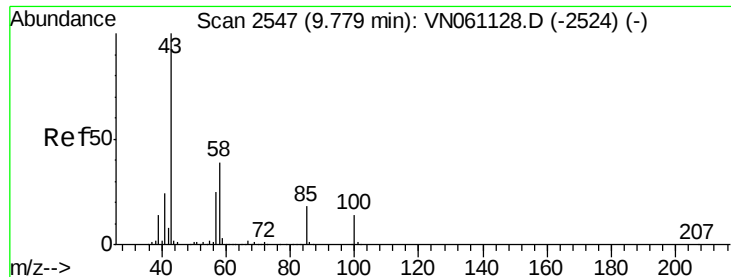
Tgt Ion: 88 Resp: 858
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 164.7 57.8 86.6#



#50
Toluene-d8
Concen: 50.36 ug/l
RT: 9.88 min Scan# 2579
Delta R.T. -0.00 min
Lab File: VN061144.D
Acq: 22 Apr 2020 21:48

Tgt Ion: 98 Resp: 380708
Ion Ratio Lower Upper
98 100
100 64.7 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 2.06 ug/l

RT: 9.78 min Scan# 2547

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampled :

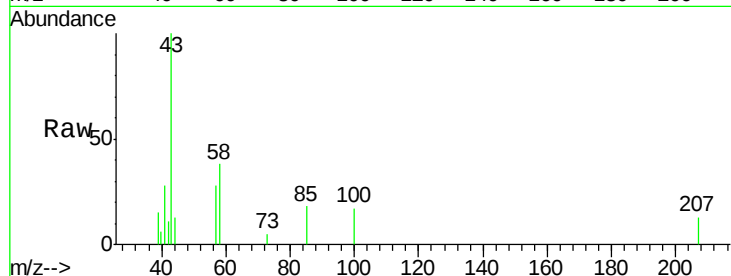
TP-19A

Tgt Ion: 43 Resp: 6182

Ion Ratio Lower Upper

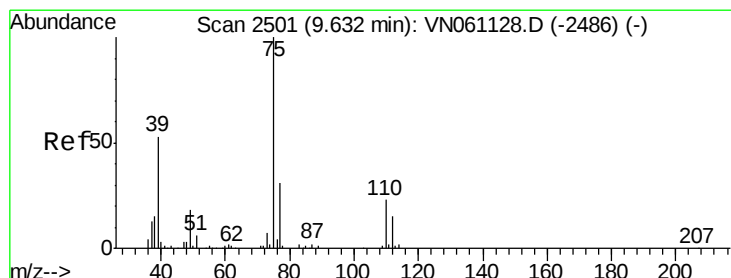
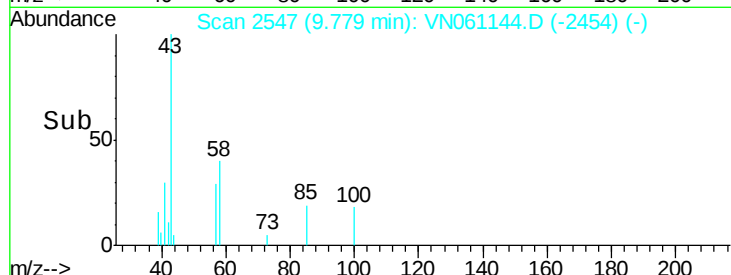
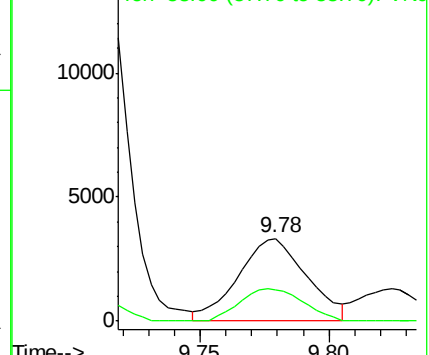
43 100

58 36.5 31.0 46.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.93 ug/l

RT: 9.71 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

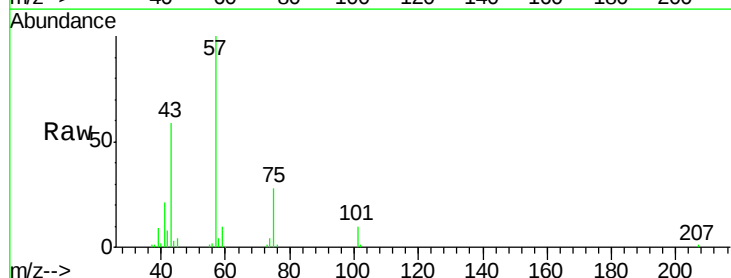
Tgt Ion: 75 Resp: 22570

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

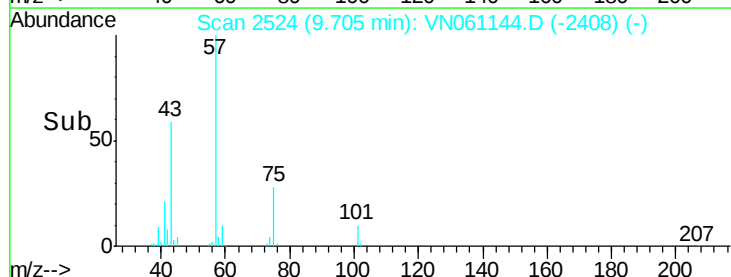
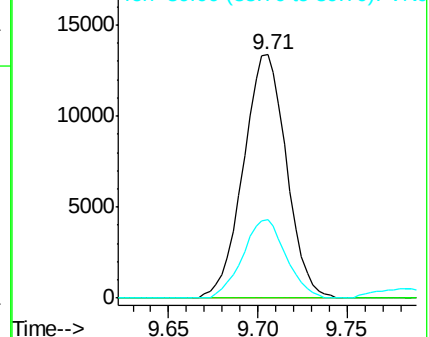
39 32.4 42.1 63.1#

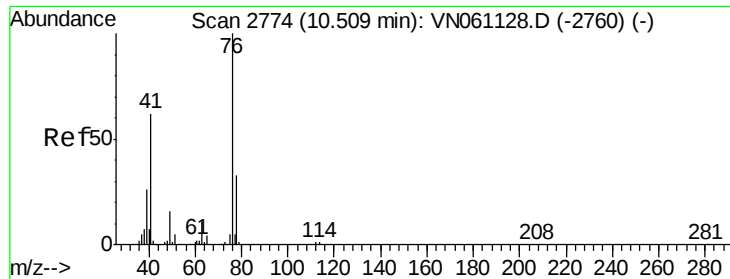


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

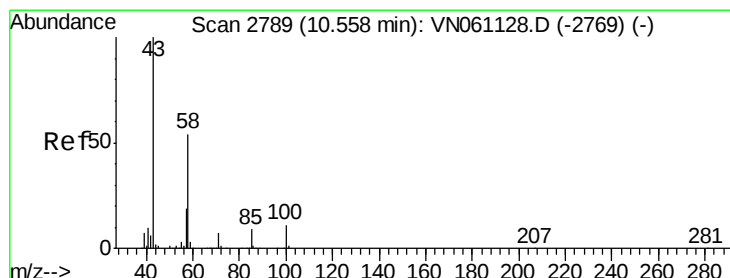
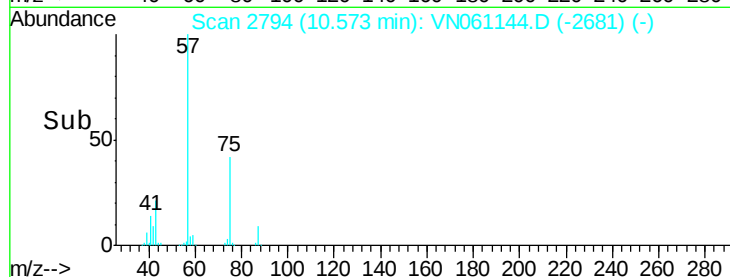
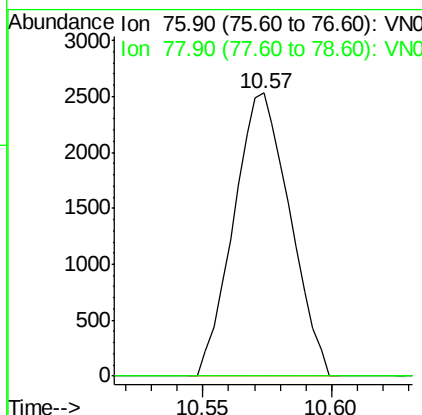
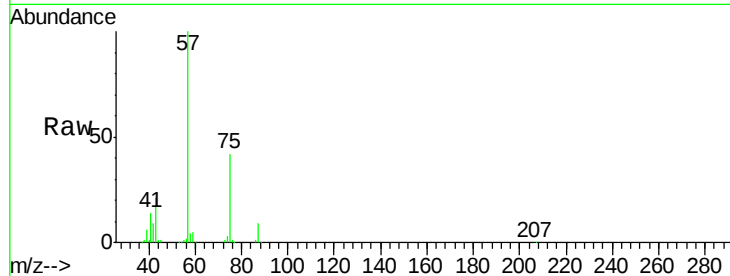




#57
 1,3-Dichloropropane
 Concen: 1.05 ug/l
 RT: 10.57 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

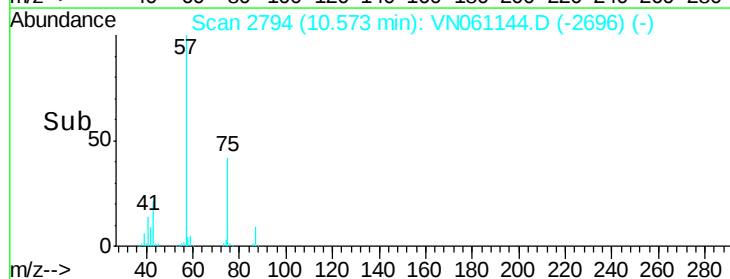
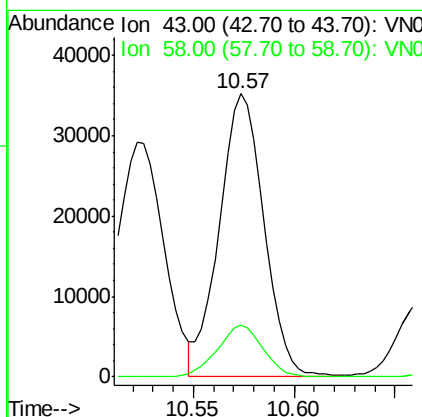
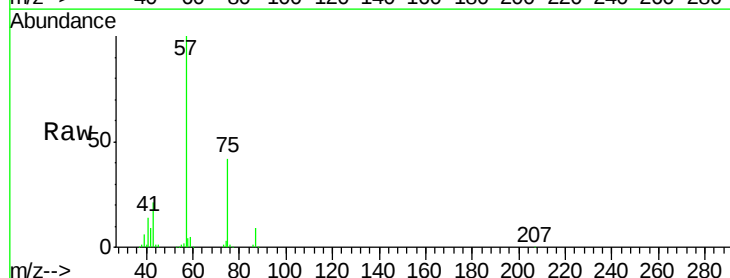
Instrument :
 MSVOA_N
 ClientSampled :
 TP-19A

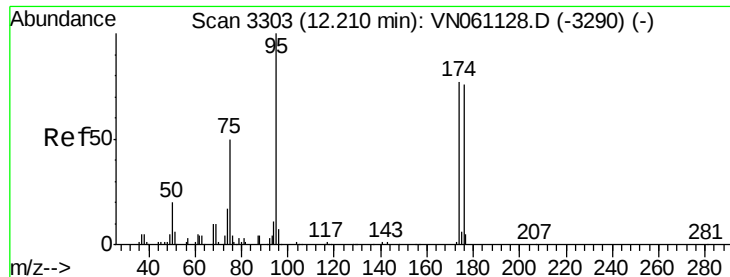
Tgt Ion: 76 Resp: 3831
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 24.32 ug/l
 RT: 10.57 min Scan# 2794
 Delta R.T. 0.02 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

Tgt Ion: 43 Resp: 53938
 Ion Ratio Lower Upper
 43 100
 58 18.7 26.9 80.6#





#62

4-Bromofluorobenzene

Concen: 53.25 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampled :

TP-19A

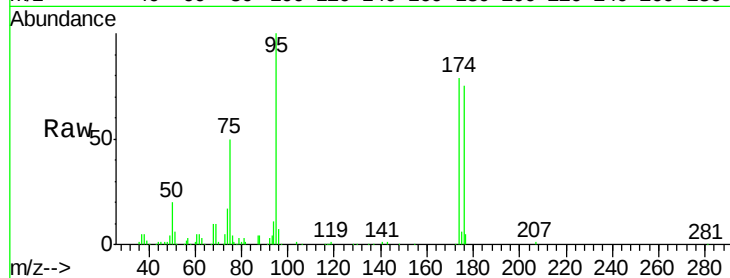
Tgt Ion: 95 Resp: 150768

Ion Ratio Lower Upper

95 100

174 80.9 0.0 157.6

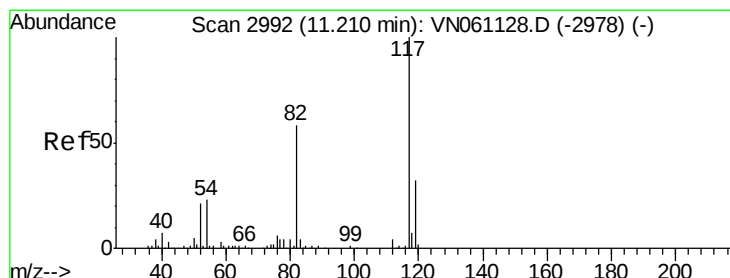
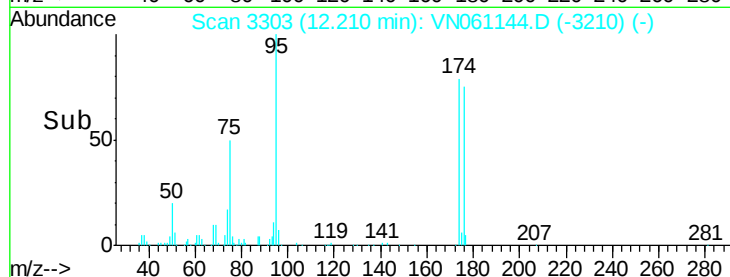
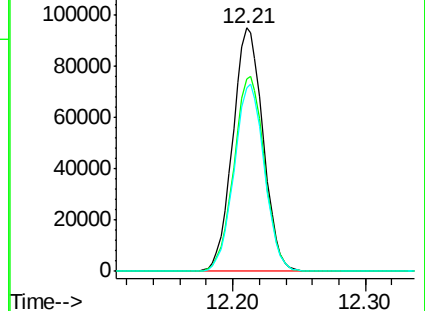
176 76.8 0.0 154.4



Abundance Ion 94.90 (94.60 to 95.60): VN061128.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061128.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061128.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.21 min Scan# 2992

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

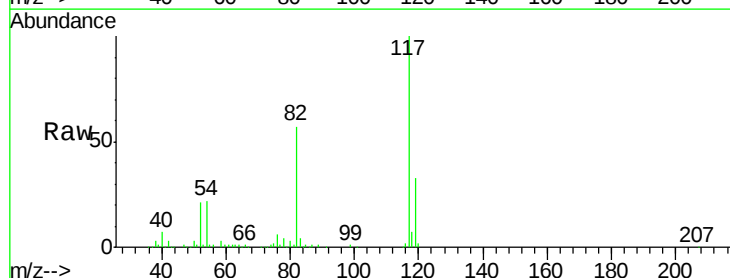
Tgt Ion: 117 Resp: 301978

Ion Ratio Lower Upper

117 100

82 57.3 46.0 69.0

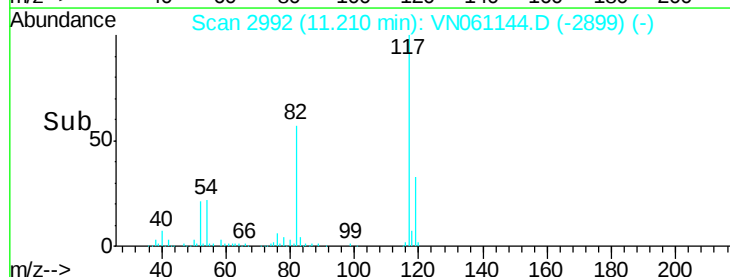
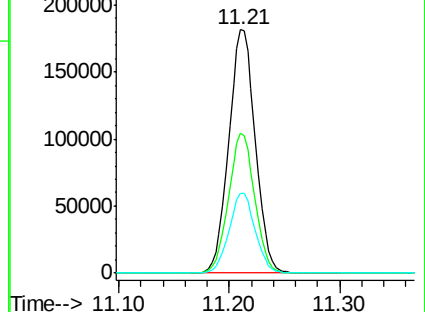
119 32.8 25.9 38.9

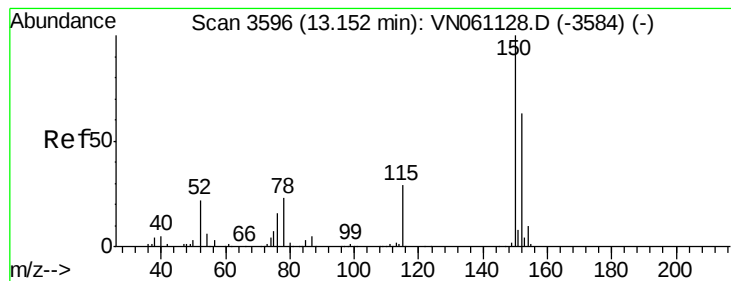


Abundance Ion 116.90 (116.60 to 117.60): VN061128.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061128.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061128.D (-2978) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Instrument :

MSVOA_N

ClientSampleId :

TP-19A

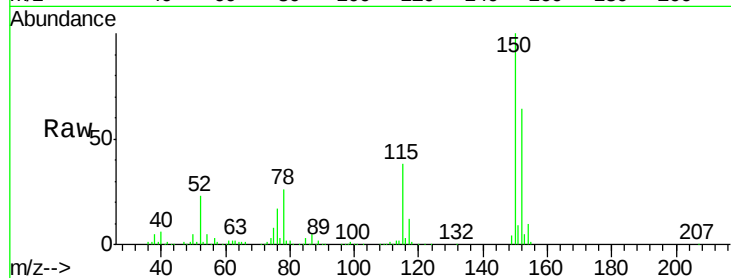
Tgt Ion:152 Resp: 147052

Ion Ratio Lower Upper

152 100

115 59.3 29.8 89.5

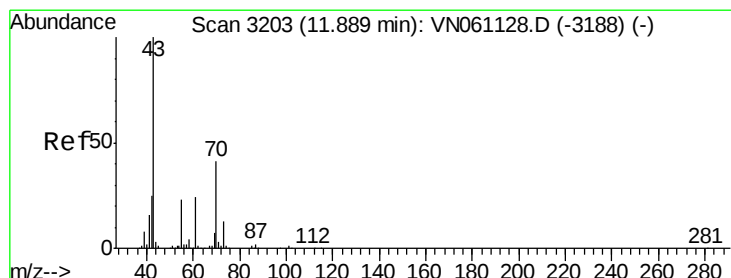
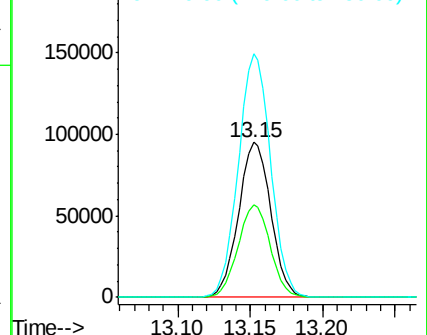
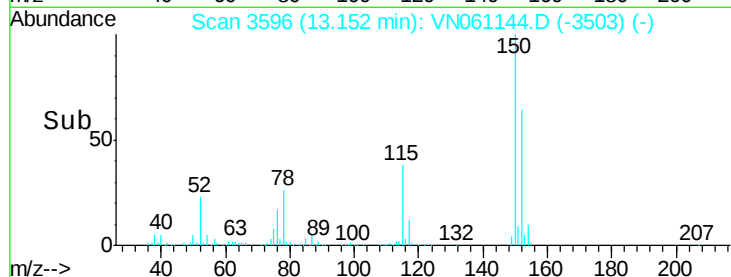
150 157.3 0.0 348.6



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: 0.47 ug/l

RT: 11.84 min Scan# 3188

Delta R.T. -0.05 min

Lab File: VN061144.D

Acq: 22 Apr 2020 21:48

Tgt Ion: 43 Resp: 2342

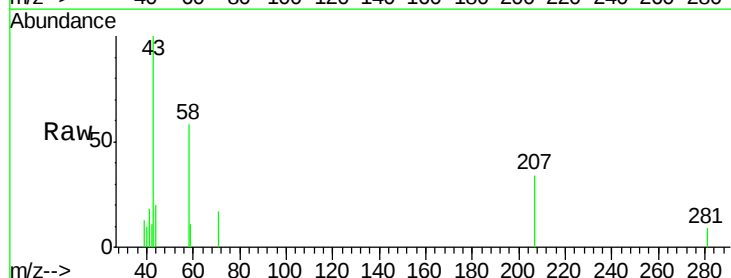
Ion Ratio Lower Upper

43 100

70 0.0 32.5 48.7#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

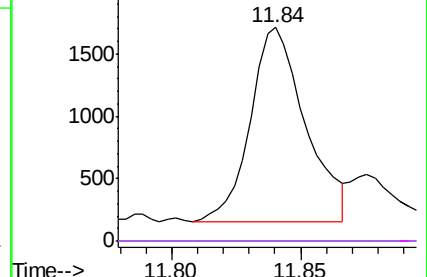
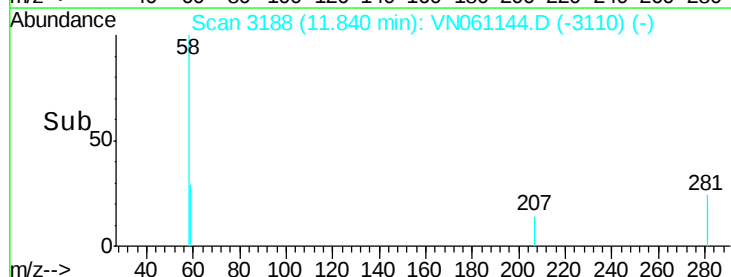


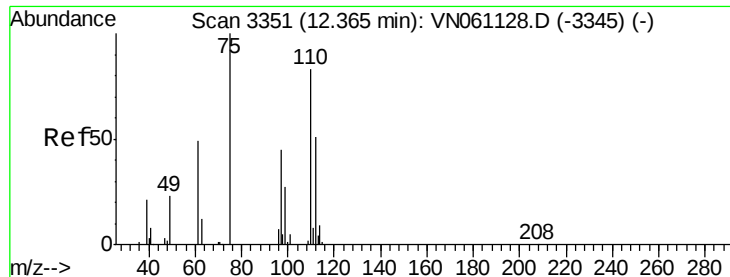
Abundance Ion 43.00 (42.70 to 43.70): V

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

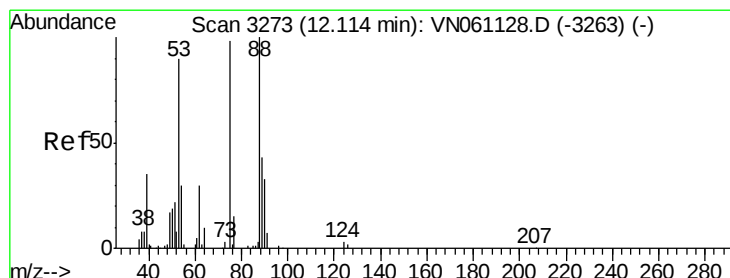
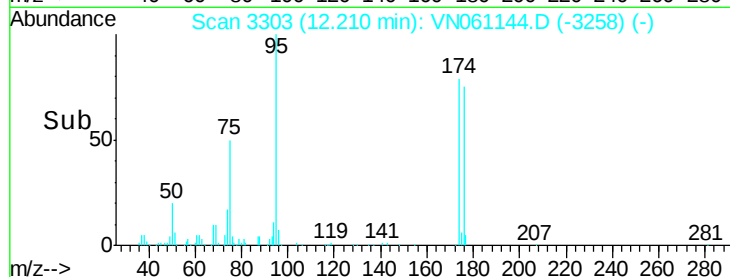
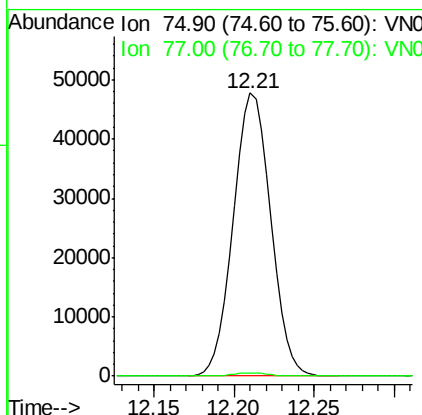
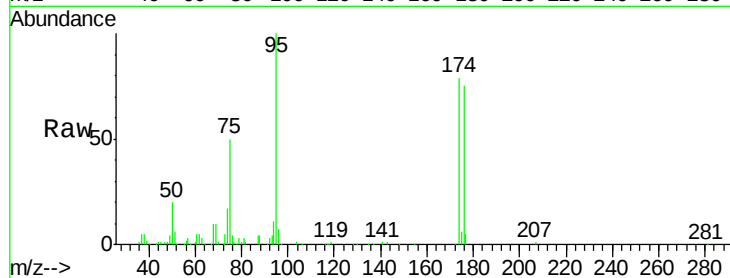




#76
 1,2,3-Trichloropropane
 Concen: 22.42 ug/l
 RT: 12.21 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

Instrument :
 MSVOA_N
 ClientSampled :
 TP-19A

Tgt Ion: 75 Resp: 76053
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.88 ug/l
 RT: 12.21 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN061144.D
 Acq: 22 Apr 2020 21:48

Tgt Ion: 75 Resp: 76053
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.3 111.5#
 89 0.0 36.6 55.0#

