

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061777.D
 Acq On : 12 Jun 2020 8:24
 Operator : JC/MD
 Sample : L2970-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 600472986

Quant Time: Jun 12 09:31:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	292867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	500088	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	519491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	229221	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	168712	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	7.55	113	147820	58.27	ug/l	0.00
Spiked Amount			Recovery	=	116.54%	
50) Toluene-d8	10.06	98	616629	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	12.38	95	217668	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	

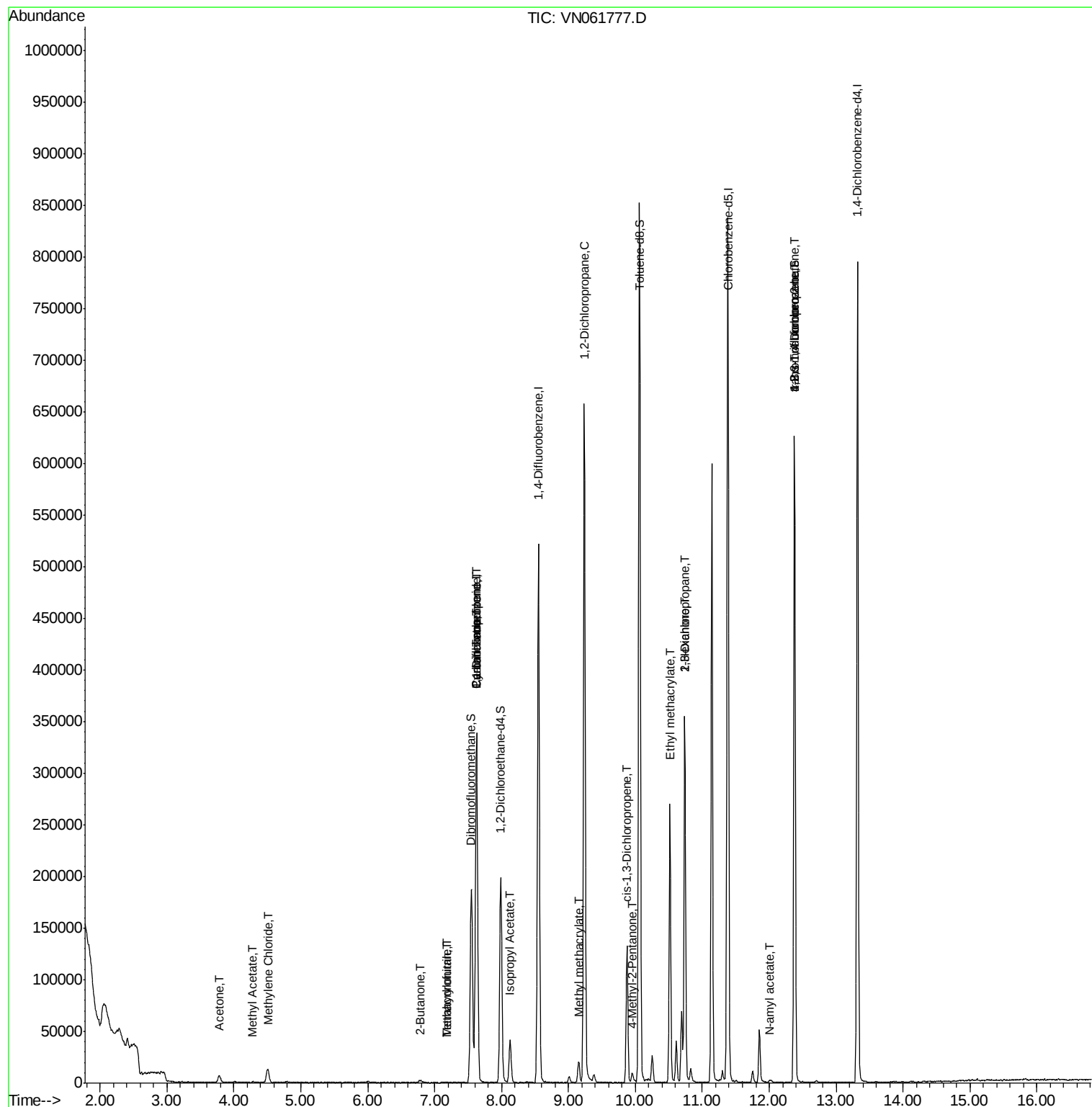
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	12211	6.662	ug/l	94
18) Methyl Acetate	4.28	43	1764	0.558	ug/l #	60
20) Methylene Chloride	4.51	84	10642	1.674	ug/l	95
25) 2-Butanone	6.79	43	2796	1.691	ug/l #	42
29) Tetrahydrofuran	7.18	42	444	0.407	ug/l #	25
31) Cyclohexane	7.62	56	5152	1.048	ug/l #	6
36) 1,1-Dichloropropene	7.62	75	19836	4.481	ug/l #	48
38) Carbon Tetrachloride	7.63	117	27543	6.450	ug/l #	17
41) Methacrylonitrile	7.18	41	360	0.220	ug/l #	15
43) Isopropyl Acetate	8.13	43	43651	6.804	ug/l	92
45) 1,2-Dichloropropane	9.24	63	889	0.274	ug/l #	44
48) Methyl methacrylate	9.15	41	2673	0.926	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	5308	1.468	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	28040	4.912	ug/l #	63
56) Ethyl methacrylate	10.52	69	1407	0.284	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4109	0.723	ug/l #	42
59) 2-Hexanone	10.74	43	42784	16.479	ug/l #	49
74) N-amyl acetate	12.00	43	2657	0.504	ug/l #	39
76) 1,2,3-Trichloropropane	12.38	75	103946	24.938	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	103946	63.774	ug/l #	15

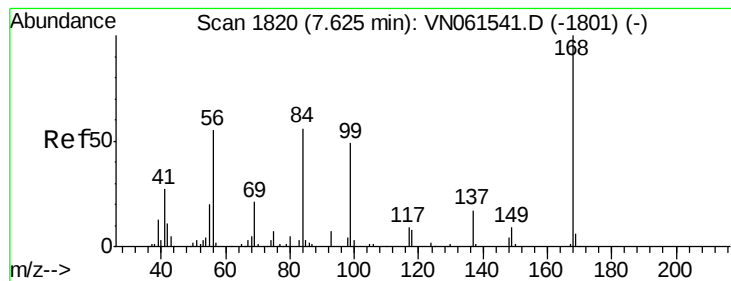
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

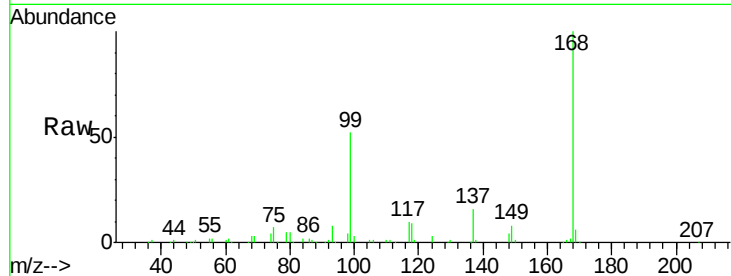
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Tot Ion:168 Resp: 292867

Ion Ratio Lower Upper

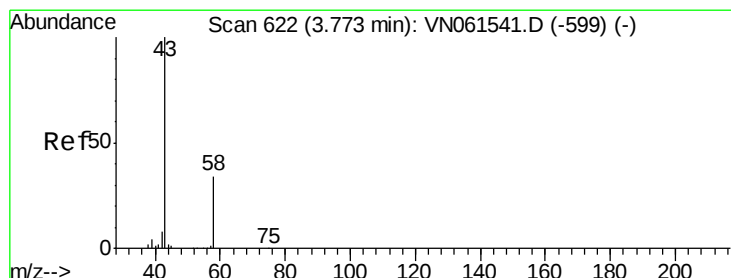
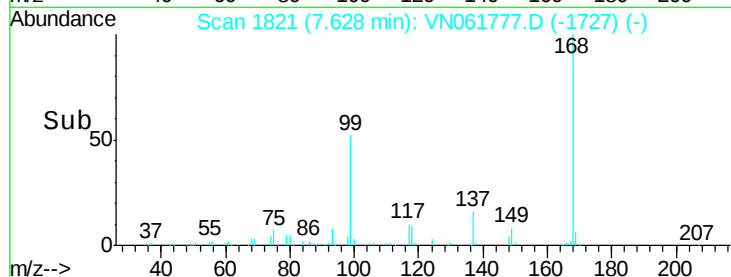
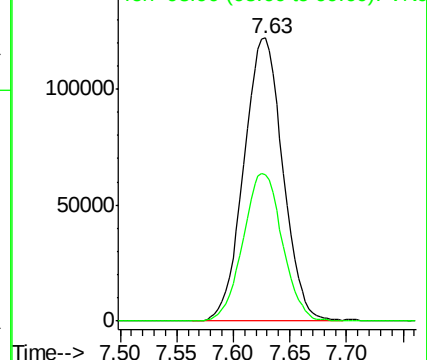
168 100

99 51.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 6.662 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061777.D

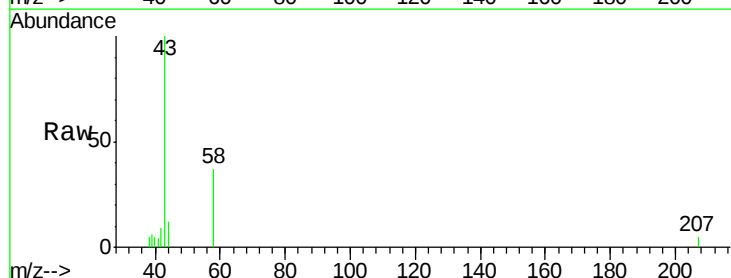
Acq: 12 Jun 2020 8:24

Tgt Ion: 43 Resp: 12211

Ion Ratio Lower Upper

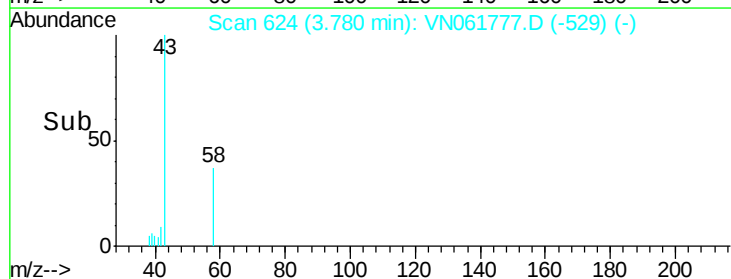
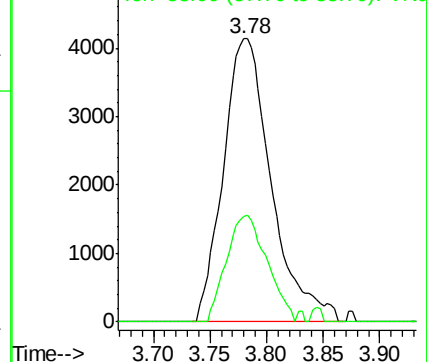
43 100

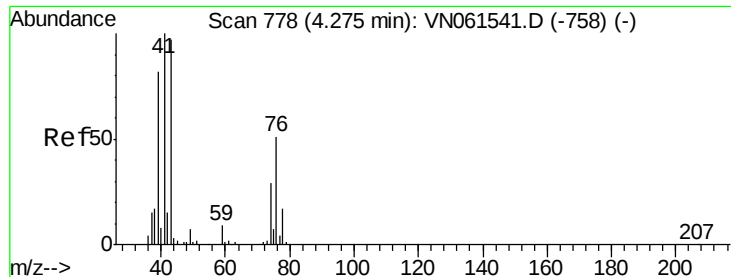
58 37.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

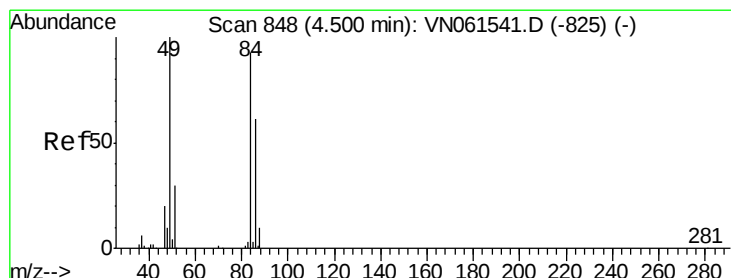
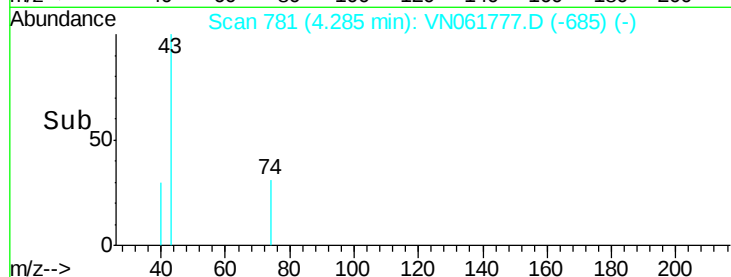
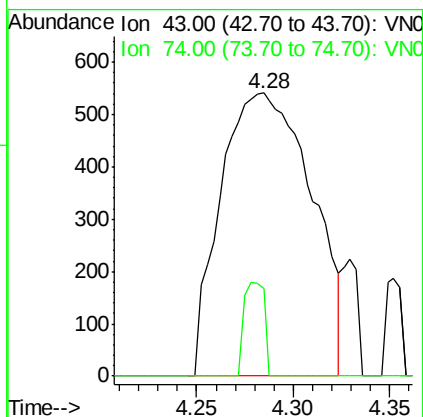
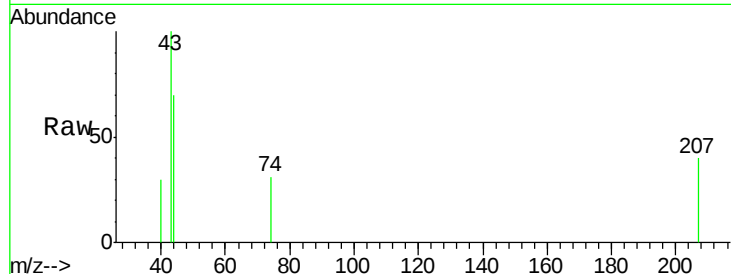




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

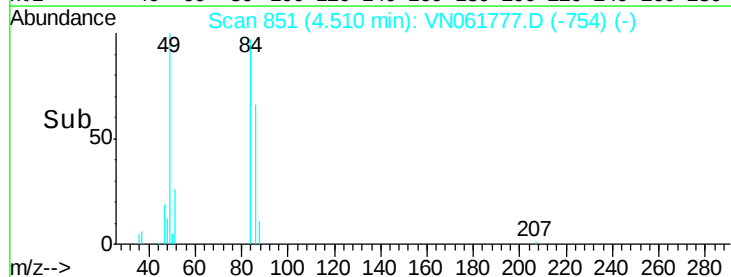
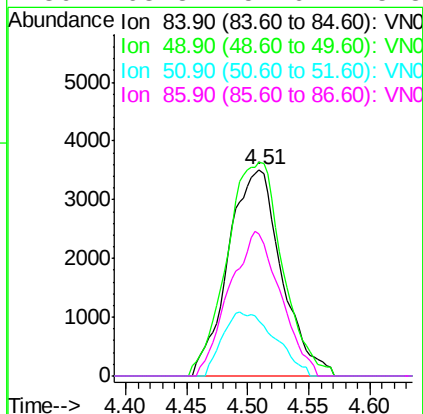
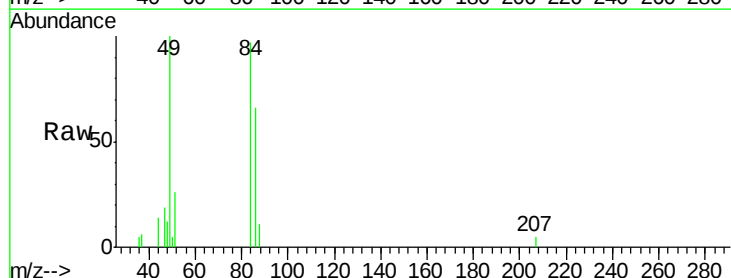
Instrument :
MSVOA_N
ClientSampled :
600472986

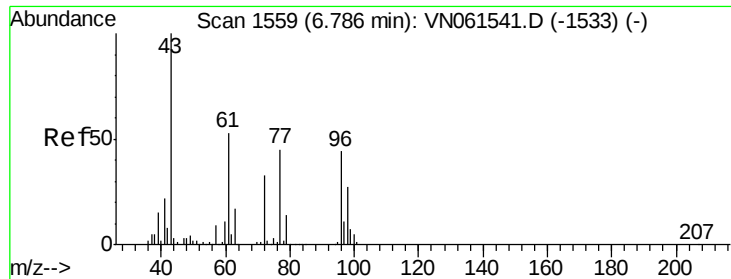
Tot Ion: 43 Resp: 1764
Ion Ratio Lower Upper
43 100
74 7.4 23.2 34.8#



#20
Methylene Chloride
Concen: 1.674 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

Tgt Ion: 84 Resp: 10642
Ion Ratio Lower Upper
84 100
49 103.5 85.8 128.8
51 27.0 26.2 39.2
86 68.8 52.6 78.8





#25

2-Butanone

Concen: 1.691 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

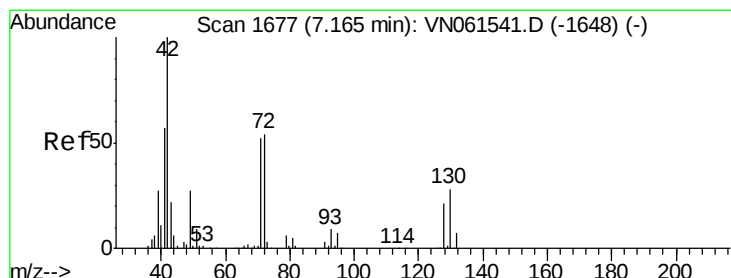
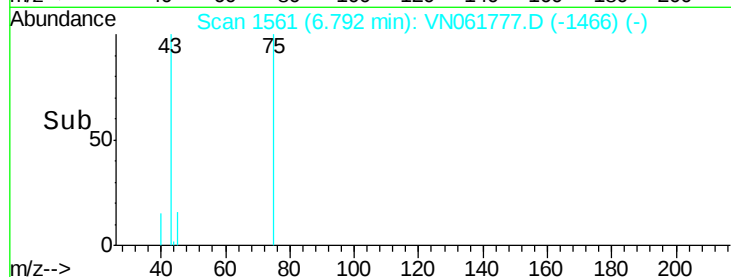
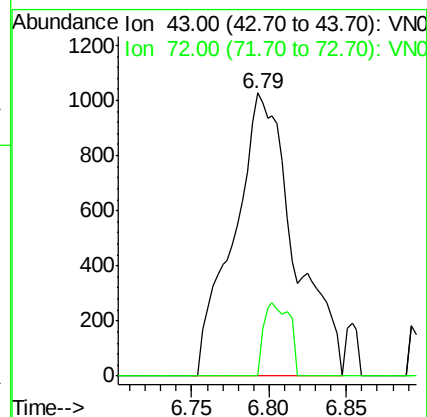
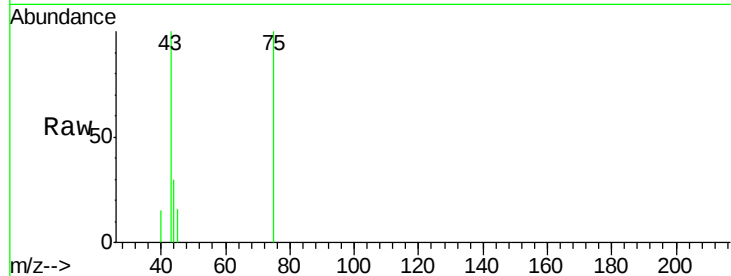
600472986

Tot Ion: 43 Resp: 2796

Ion Ratio Lower Upper

43 100

72 0.0 26.0 39.0#



#29

Tetrahydrofuran

Concen: 0.407 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

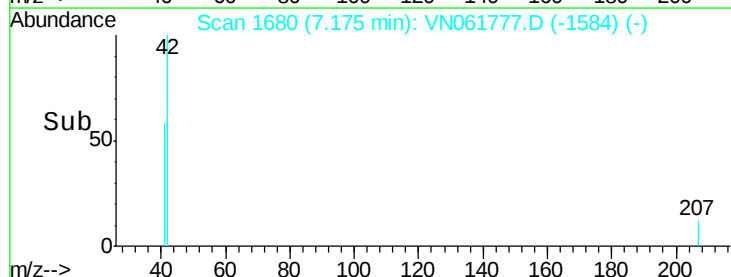
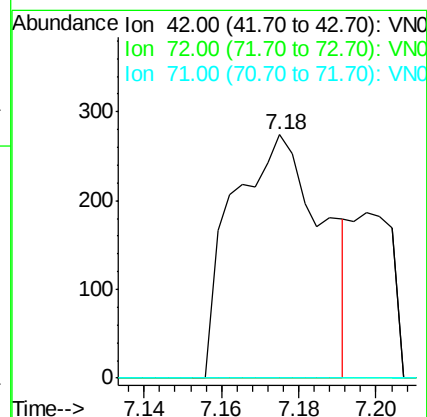
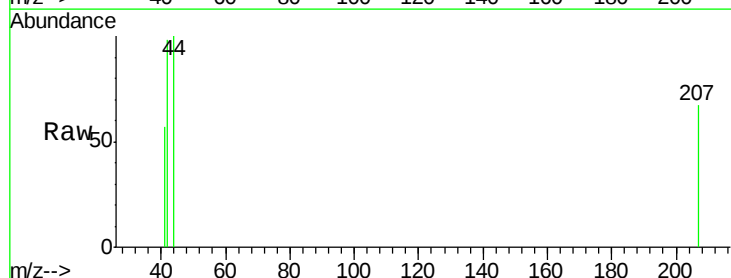
Tgt Ion: 42 Resp: 444

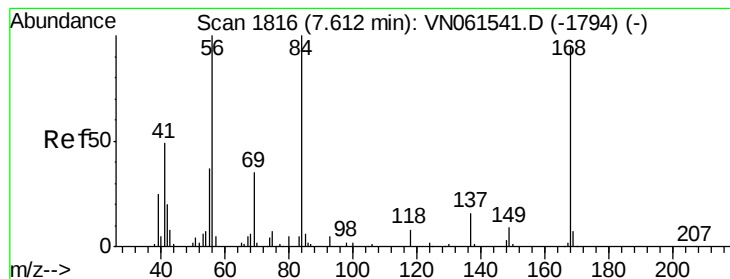
Ion Ratio Lower Upper

42 100

72 0.0 43.6 65.4#

71 0.0 41.2 61.8#





#31

Cyclohexane

Concen: 1.048 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

600472986

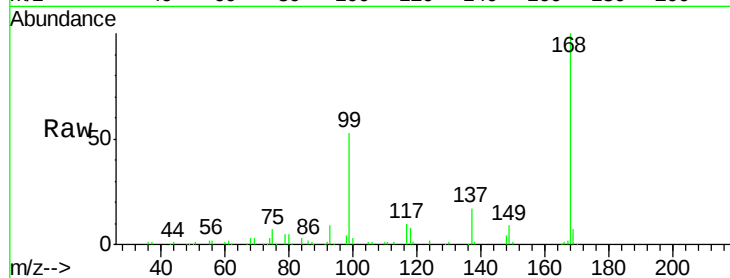
Tot Ion: 56 Resp: 5152

Ion Ratio Lower Upper

56 100

69 166.8 27.8 41.8#

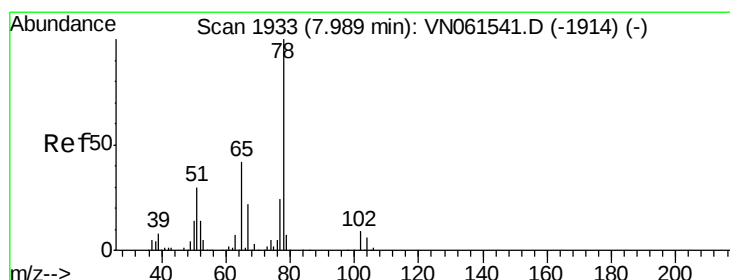
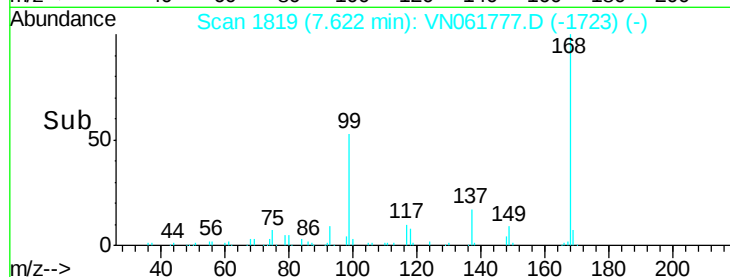
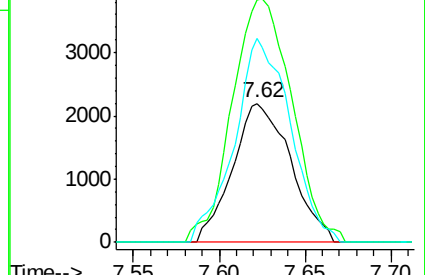
84 147.1 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061541.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061541.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061541.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.351 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061777.D

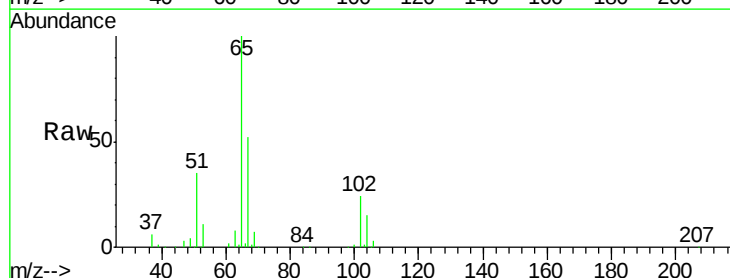
Acq: 12 Jun 2020 8:24

Tgt Ion: 65 Resp: 168712

Ion Ratio Lower Upper

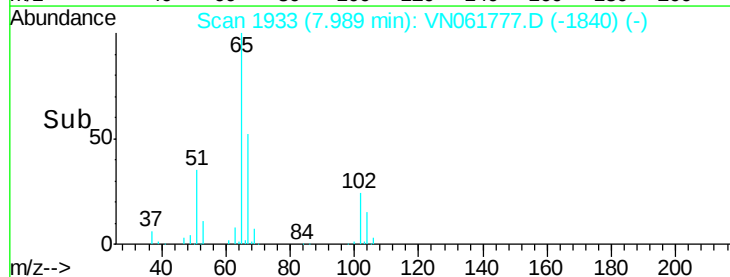
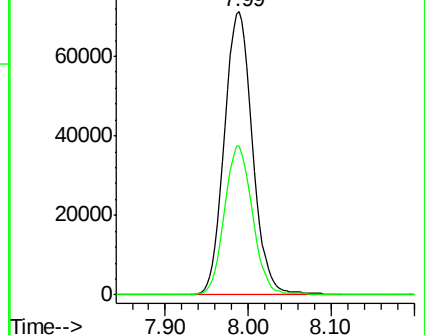
65 100

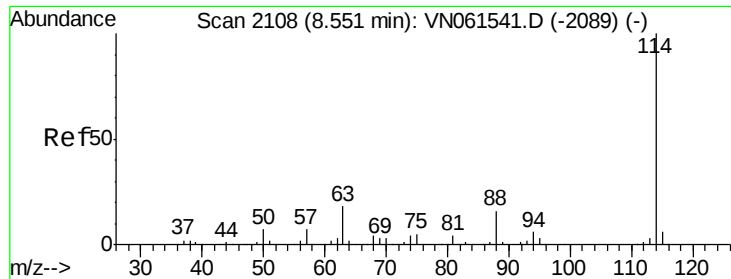
67 52.3 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061541.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN061541.D (-1914) (-)

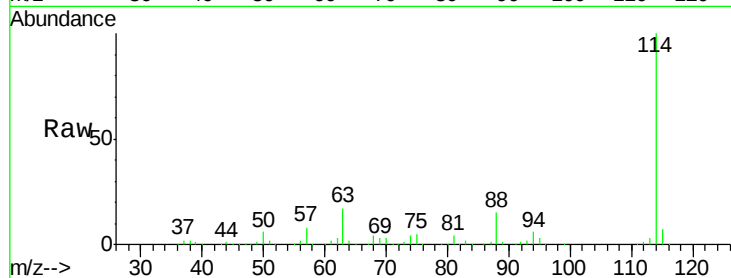




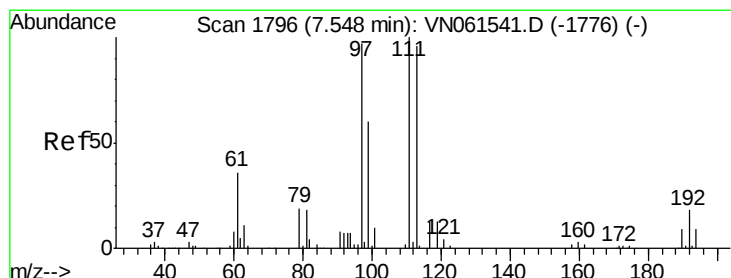
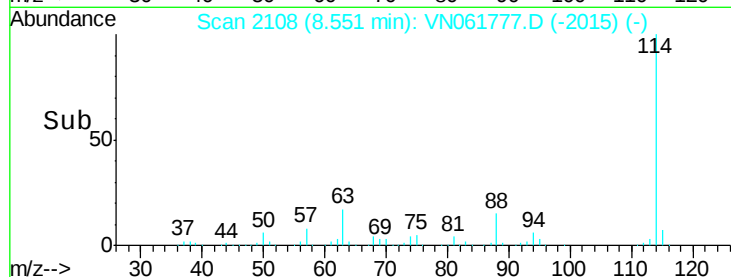
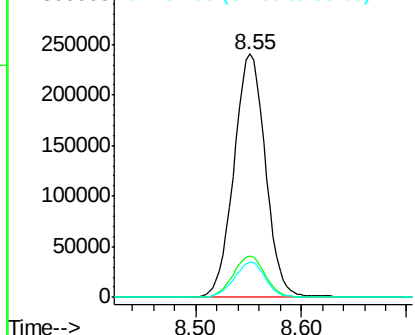
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

Instrument :
MSVOA_N
ClientSampleId :
600472986

Tot Ion:114 Resp: 500088
Ion Ratio Lower Upper
114 100
63 16.9 0.0 35.8
88 14.6 0.0 31.0

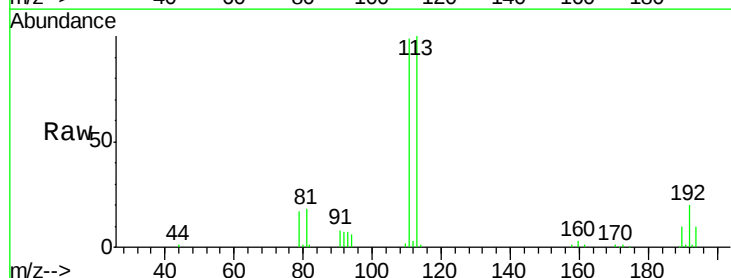


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

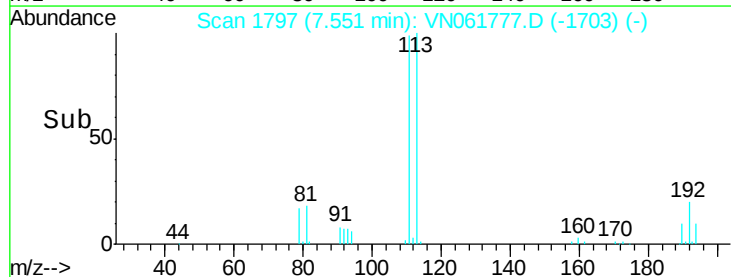
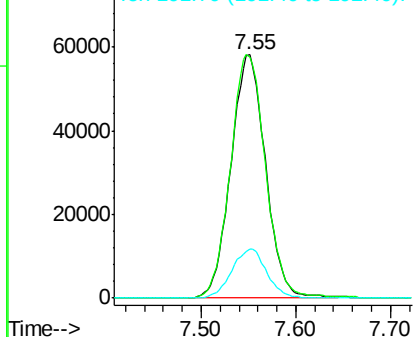


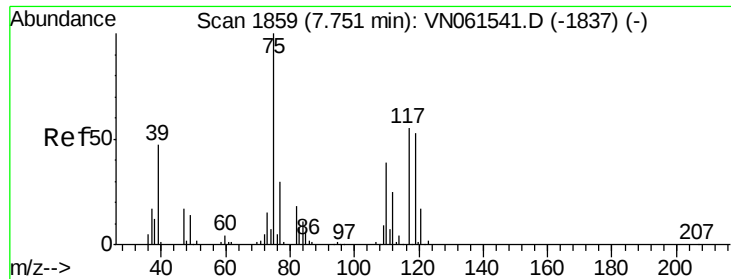
#35
Dibromofluoromethane
Concen: 58.269 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

Tgt Ion:113 Resp: 147820
Ion Ratio Lower Upper
113 100
111 101.6 83.4 125.0
192 20.1 15.4 23.2



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

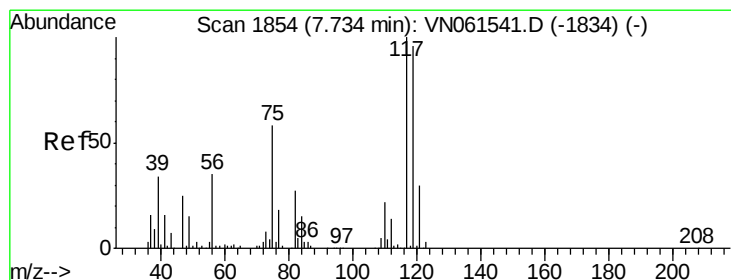
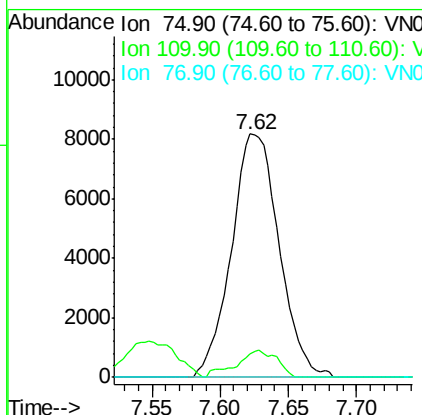
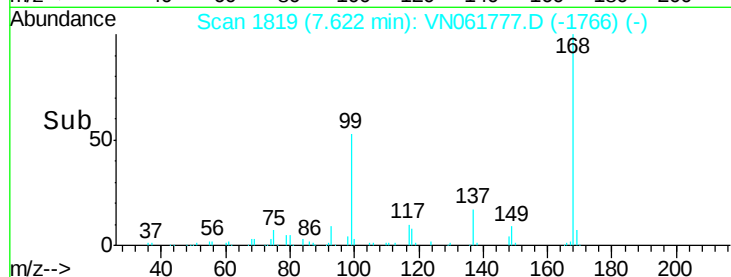
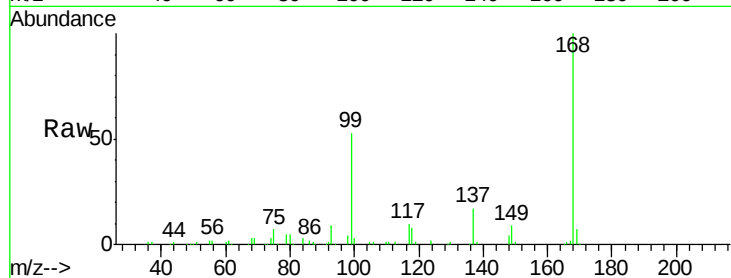




#36
 1,1-Dichloropropene
 Concen: 4.481 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

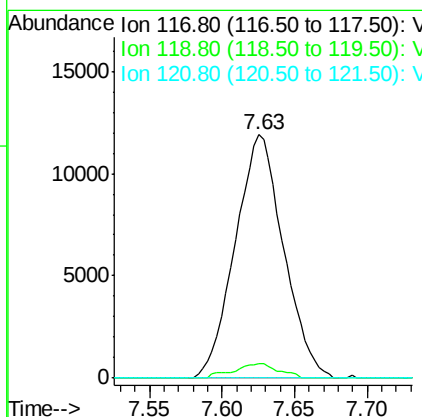
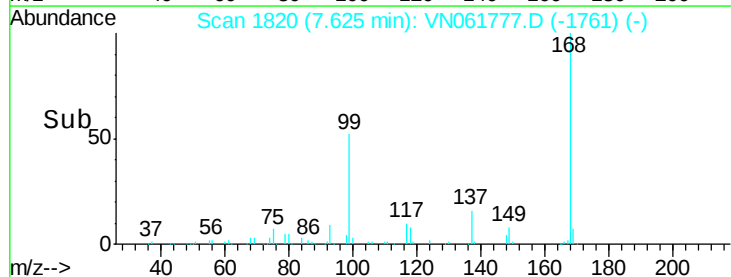
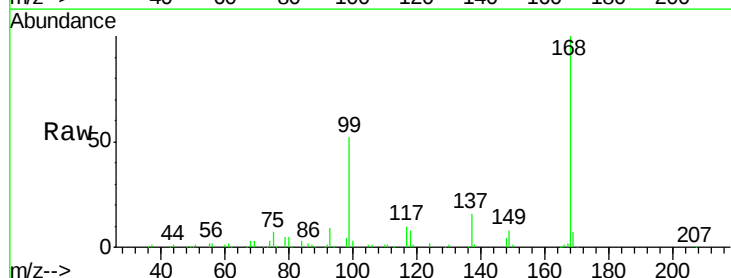
Instrument :
 MSVOA_N
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 600472986

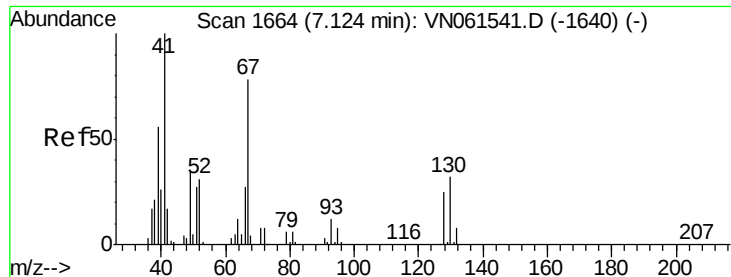
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.450 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.5	114.7#
121	0.0	24.1	36.1#

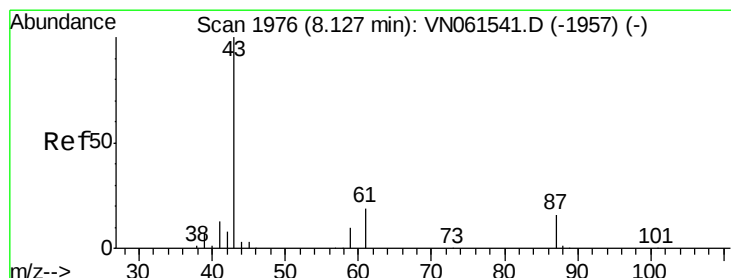
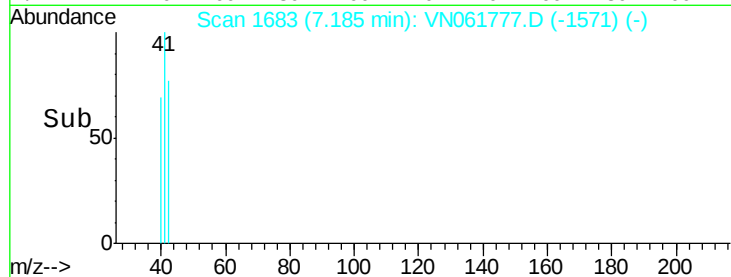
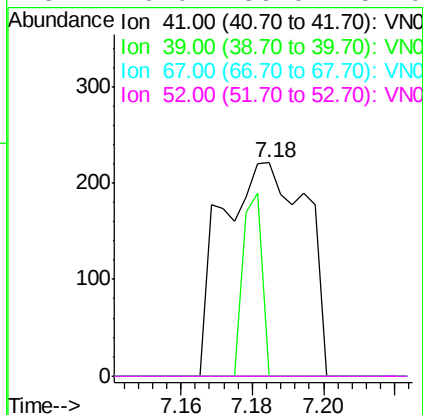
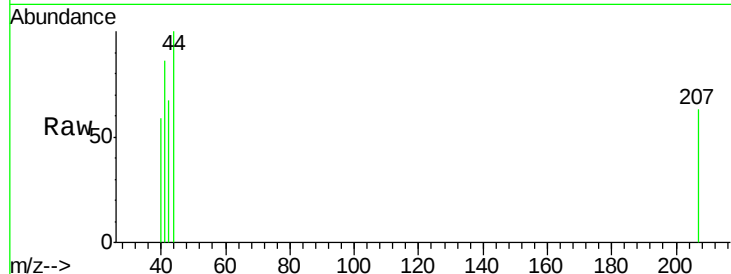




#41
Methacrylonitrile
Concen: 0.220 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.06 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

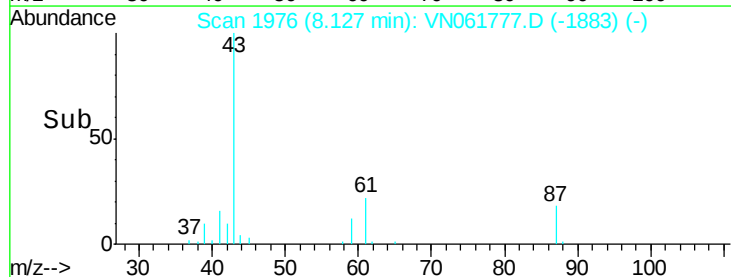
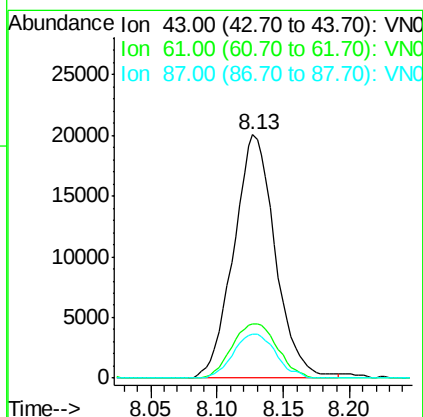
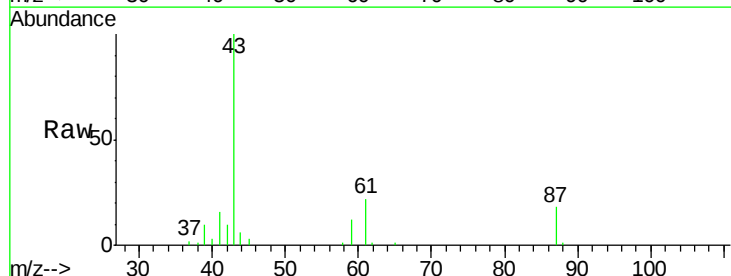
Instrument :
MSVOA_N
ClientSampled :
600472986

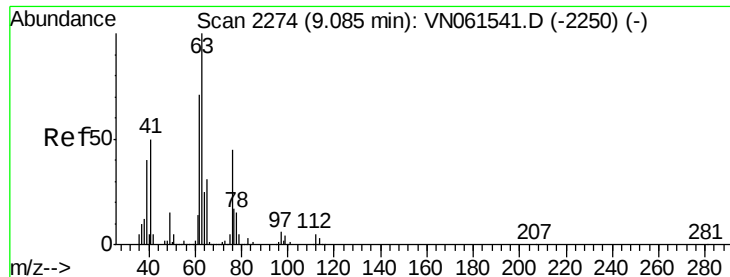
Tot Ion: 41 Resp: 360
Ion Ratio Lower Upper
41 100
39 19.2 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#



#43
Isopropyl Acetate
Concen: 6.804 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061777.D
Acq: 12 Jun 2020 8:24

Tgt Ion: 43 Resp: 43651
Ion Ratio Lower Upper
43 100
61 24.3 23.6 35.4
87 18.5 13.0 19.6





#45

1,2-Dichloropropane

Concen: 0.274 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

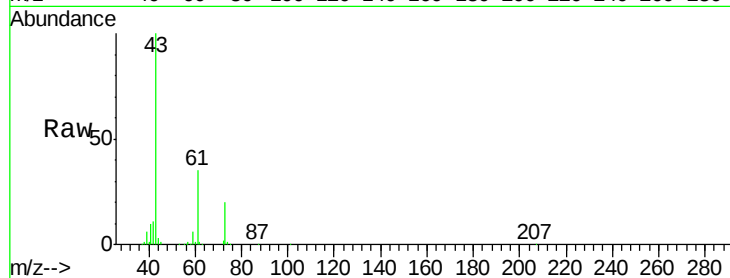
600472986

Tot Ion: 63 Resp: 889

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

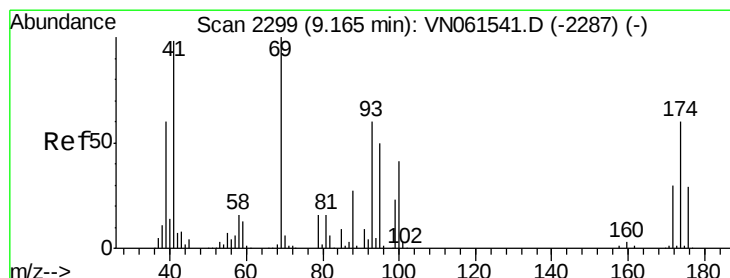
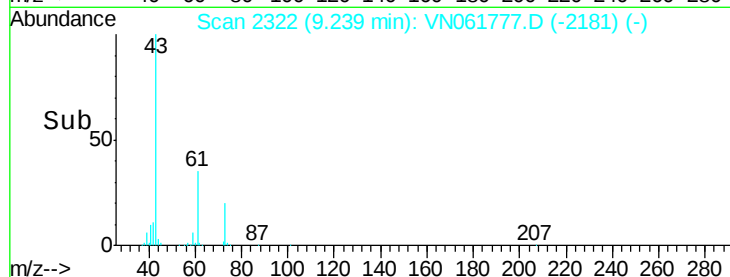
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 0.926 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.01 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

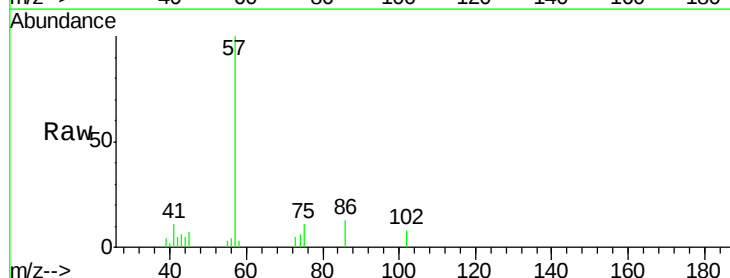
Tgt Ion: 41 Resp: 2673

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

39 0.0 52.1 78.1#



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

30000

25000

20000

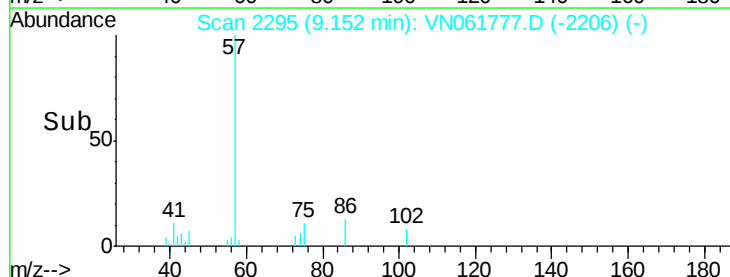
15000

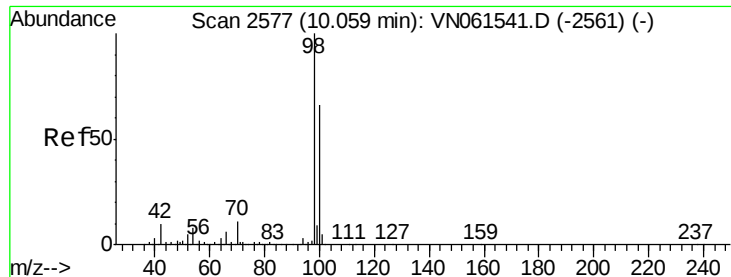
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 52.452 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

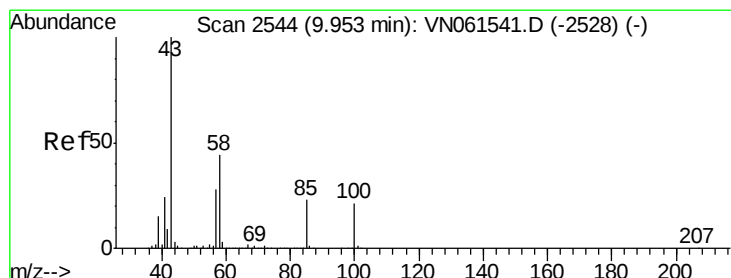
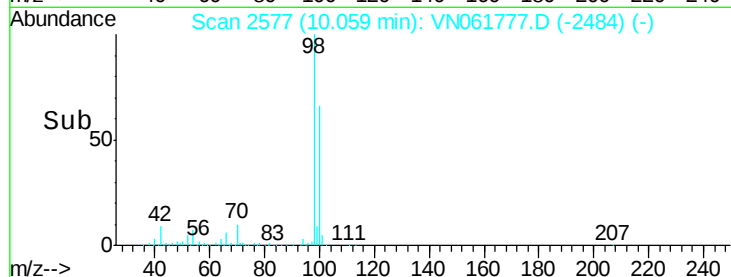
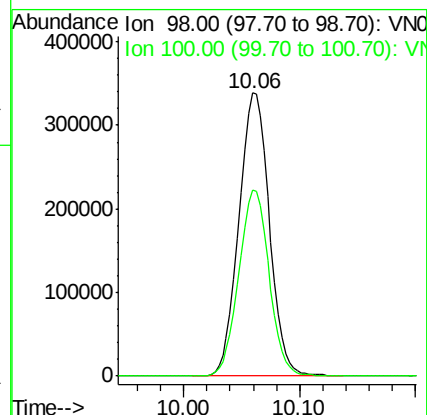
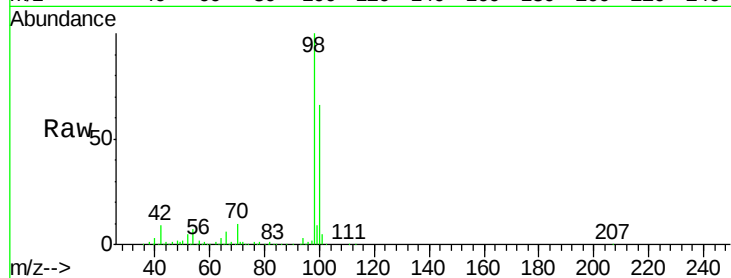
600472986

Tot Ion: 98 Resp: 616629

Ion Ratio Lower Upper

98 100

100 65.6 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.468 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061777.D

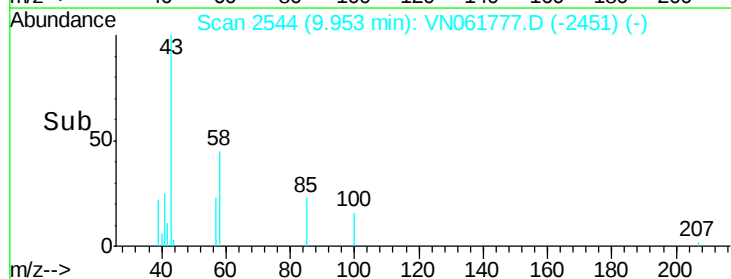
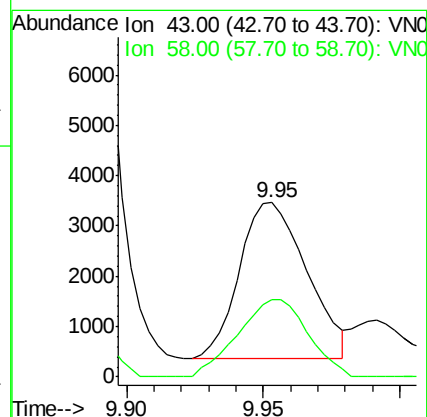
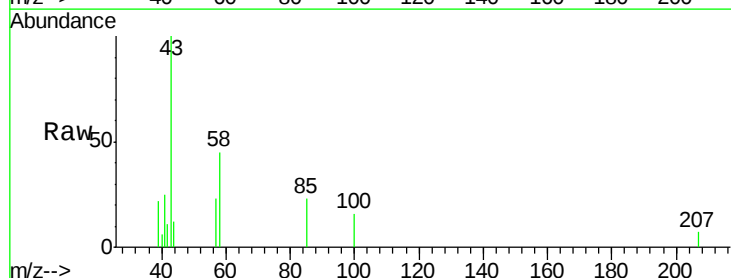
Acq: 12 Jun 2020 8:24

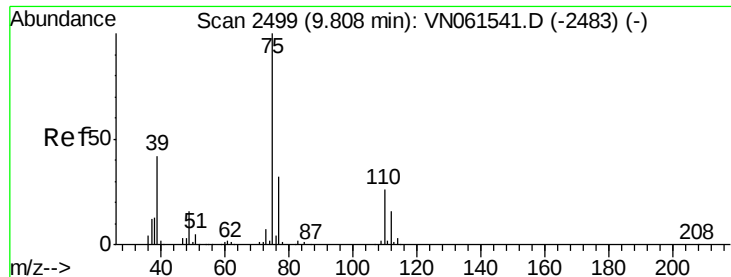
Tgt Ion: 43 Resp: 5308

Ion Ratio Lower Upper

43 100

58 51.5 35.0 52.6

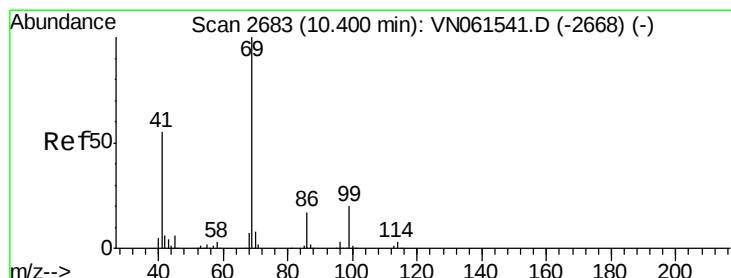
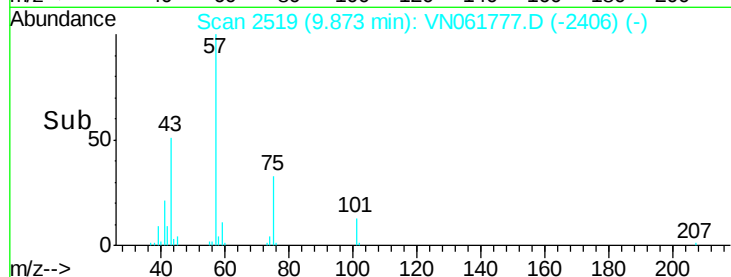
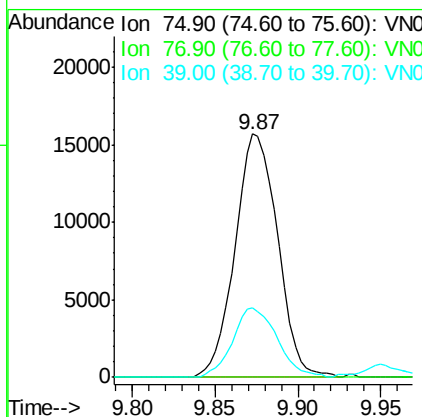
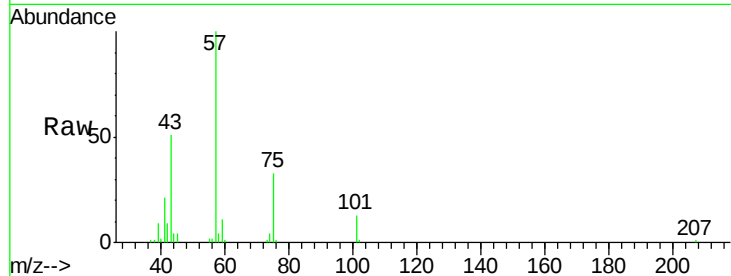




#54
 cis-1,3-Dichloropropene
 Concen: 4.912 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

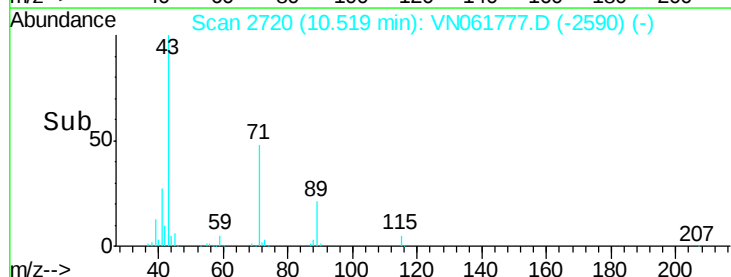
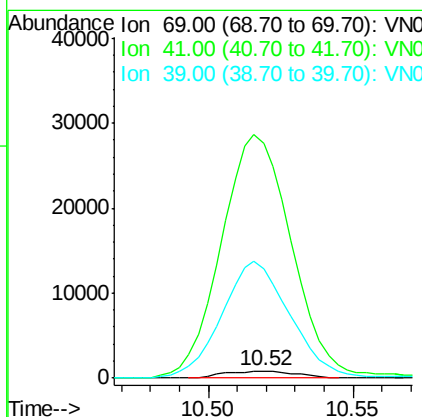
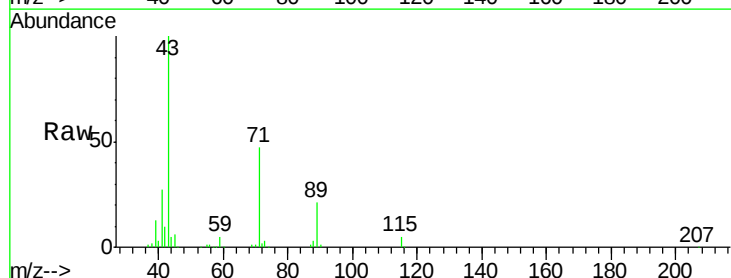
Instrument :
 MSVOA_N
 ClientSampleId :
 600472986

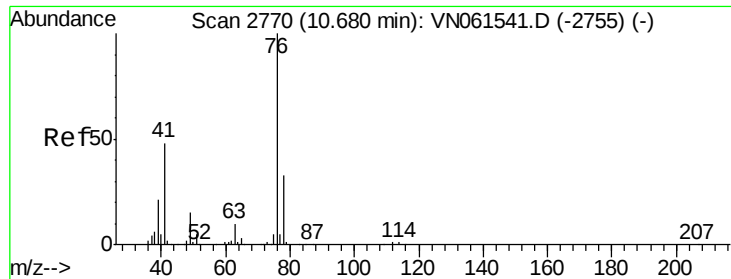
Tot Ion: 75 Resp: 28040
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 28.4 33.8 50.6#



#56
 Ethyl methacrylate
 Concen: 0.284 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

Tgt Ion: 69 Resp: 1407
 Ion Ratio Lower Upper
 69 100
 41 3452.0 43.5 65.3#
 39 1612.2 27.0 40.6#





#57

1,3-Dichloropropane

Concen: 0.723 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

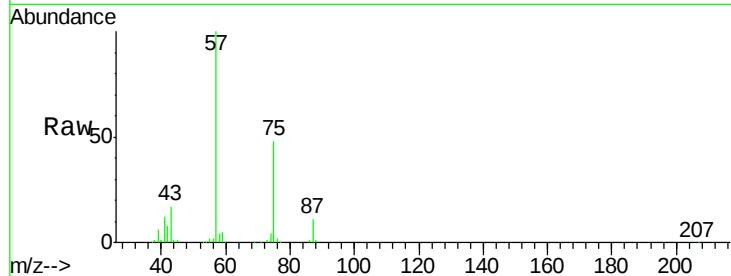
600472986

Tot Ion: 76 Resp: 4109

Ion Ratio Lower Upper

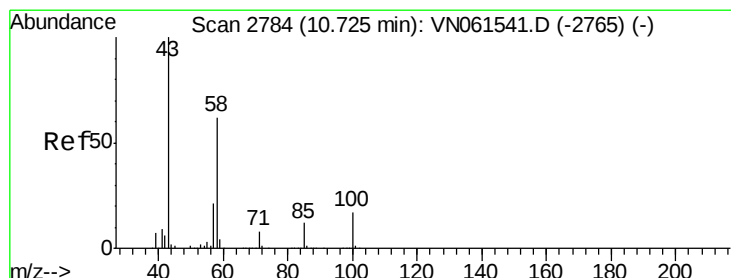
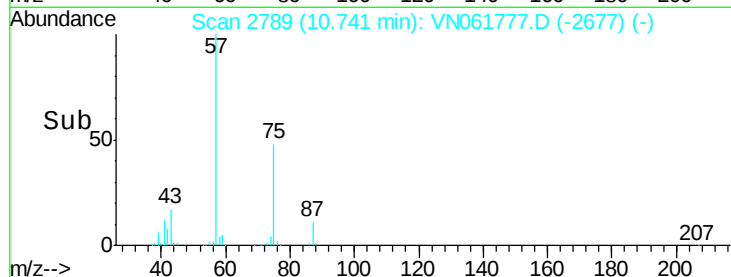
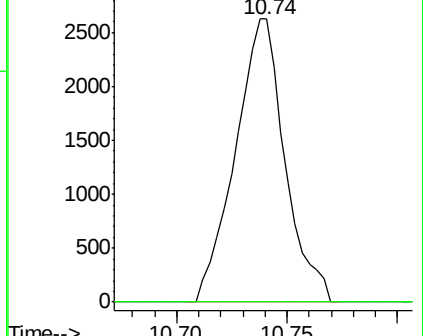
76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 16.479 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061777.D

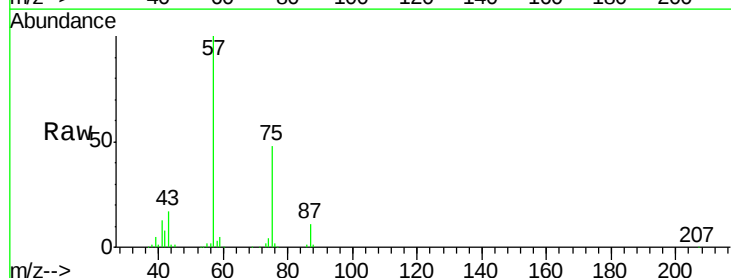
Acq: 12 Jun 2020 8:24

Tgt Ion: 43 Resp: 42784

Ion Ratio Lower Upper

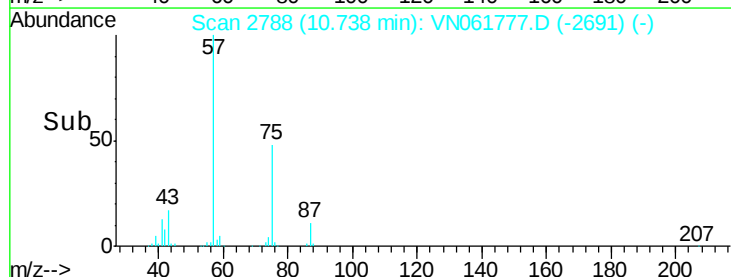
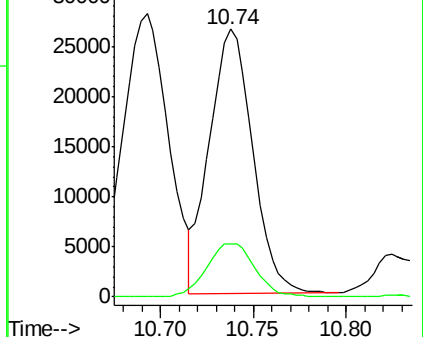
43 100

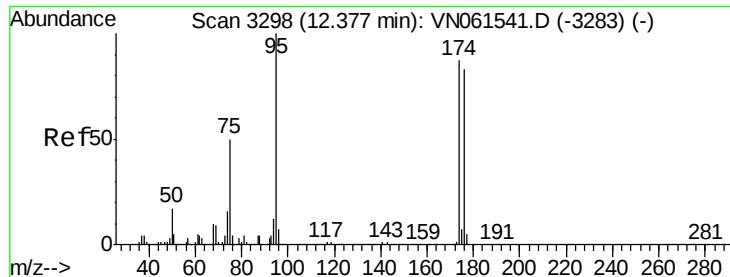
58 22.4 30.7 92.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.750 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

600472986

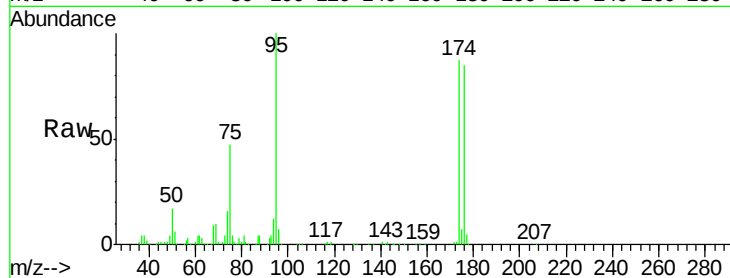
Tot Ion: 95 Resp: 217668

Ion Ratio Lower Upper

95 100

174 87.7 0.0 172.8

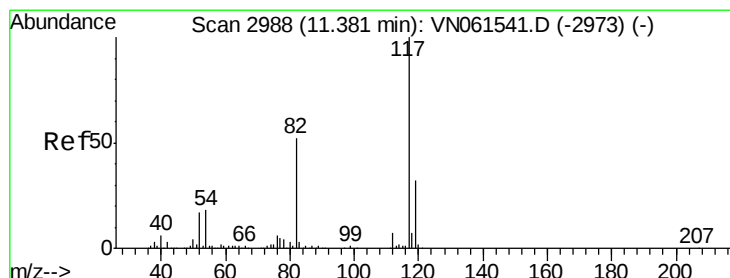
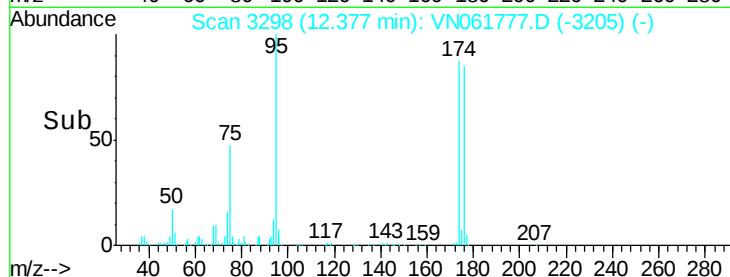
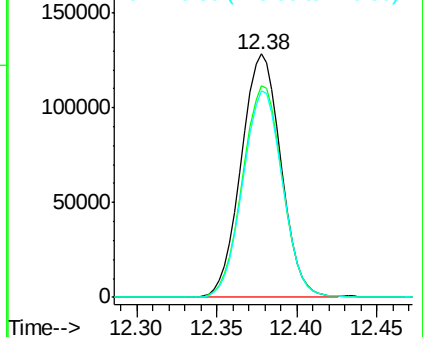
176 85.1 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061777.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061777.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061777.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

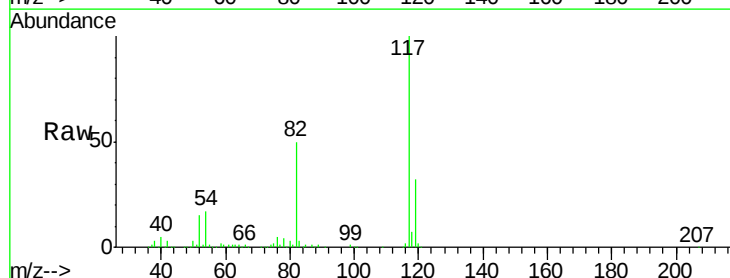
Tgt Ion: 117 Resp: 519491

Ion Ratio Lower Upper

117 100

82 50.4 41.5 62.3

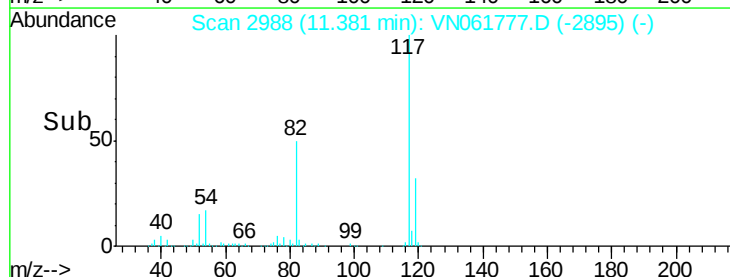
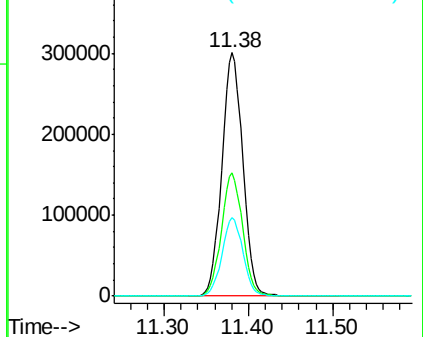
119 32.1 25.6 38.4

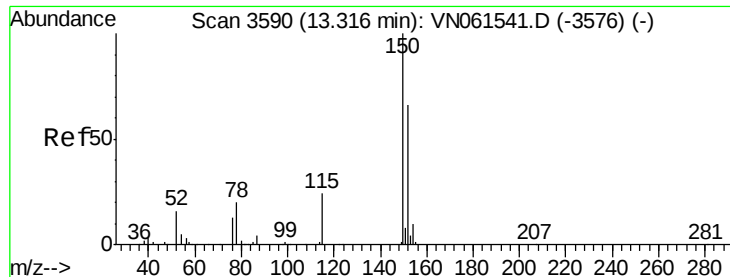


Abundance Ion 116.90 (116.60 to 117.60): VN061777.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061777.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061777.D (-2895) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Instrument :

MSVOA_N

ClientSampleId :

600472986

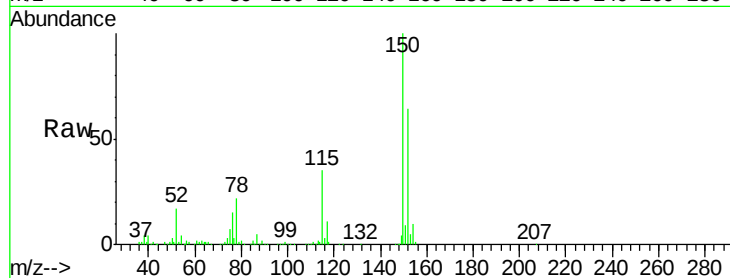
Tot Ion:152 Resp: 229221

Ion Ratio Lower Upper

152 100

115 55.5 28.0 84.0

150 155.7 0.0 344.0

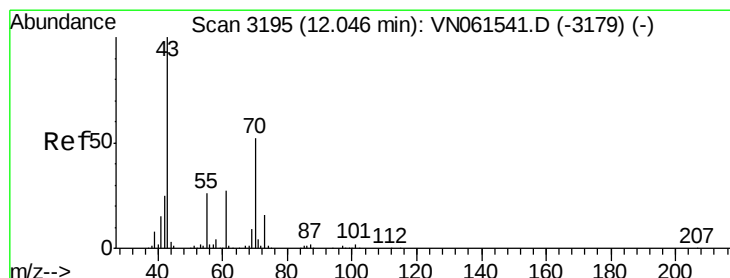
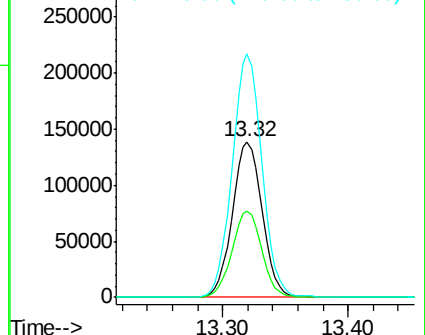
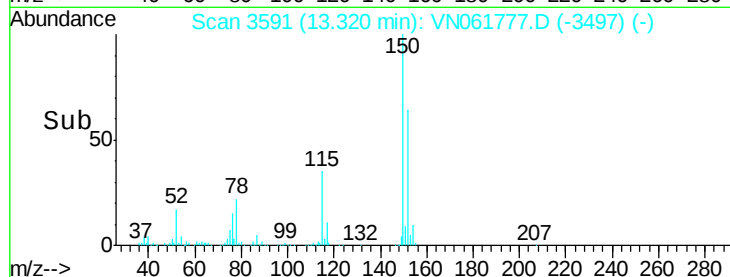


Abundance

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-ethyl acetate

Concen: 0.504 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061777.D

Acq: 12 Jun 2020 8:24

Tgt Ion: 43 Resp: 2657

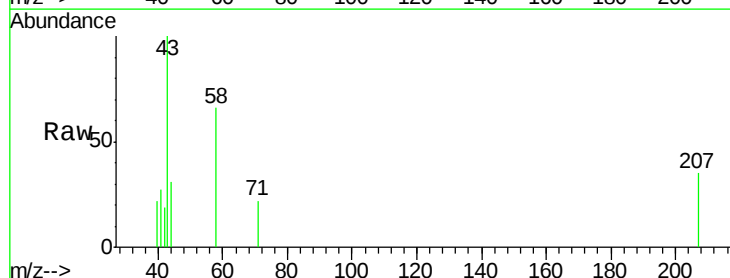
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 1.2 20.6 31.0#

61 0.0 21.8 32.6#



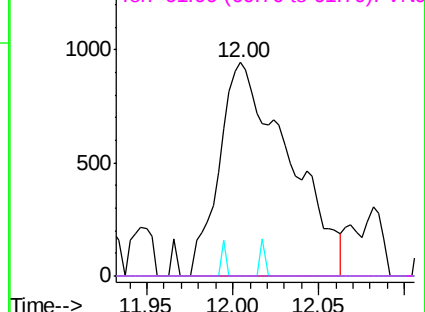
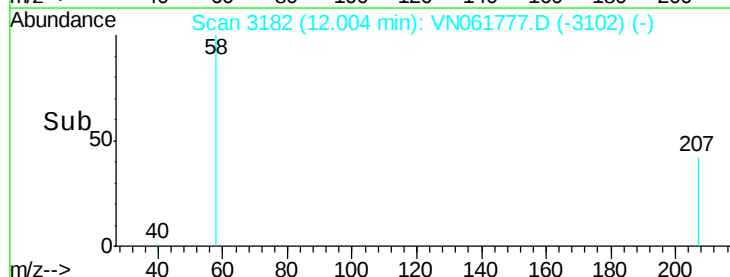
Abundance

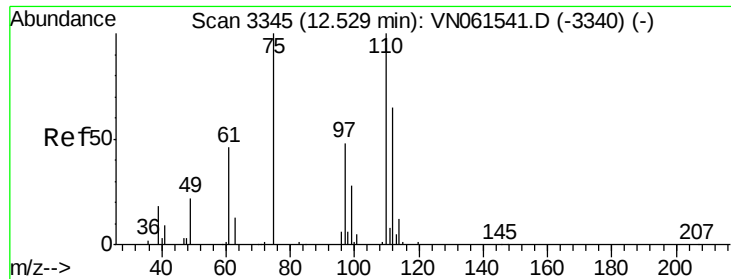
Ion 43.00 (42.70 to 43.70): V

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

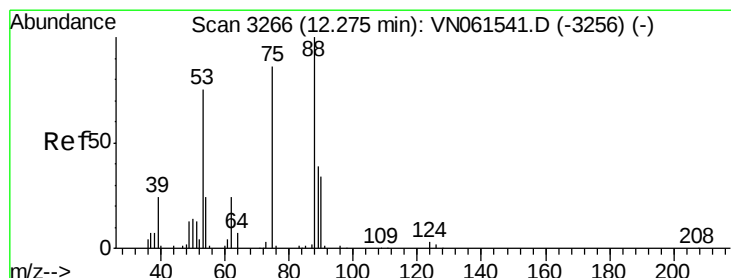
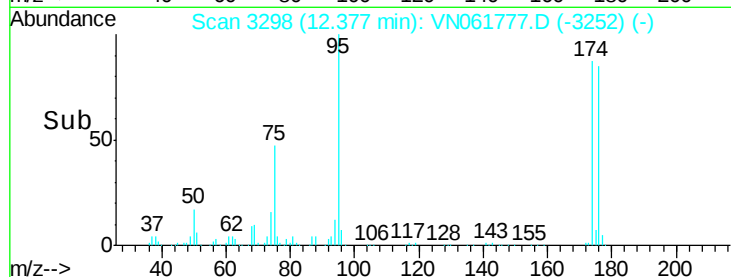
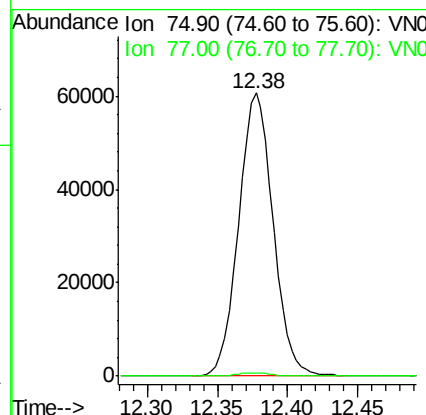
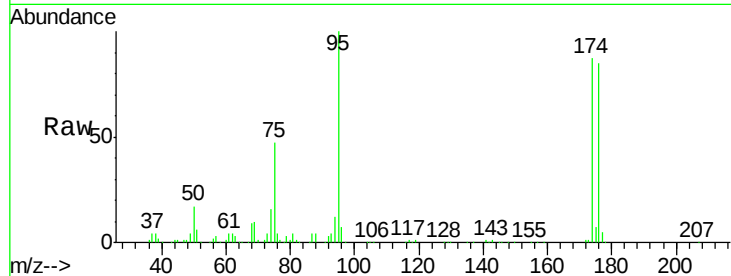




#76
 1,2,3-Trichloropropane
 Concen: 24.938 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

Instrument :
 MSVOA_N
 ClientSampled :
 600472986

Tot Ion: 75 Resp: 103946
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.774 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061777.D
 Acq: 12 Jun 2020 8:24

Tgt Ion: 75 Resp: 103946
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

