

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\
 Data File : VN061332.D
 Acq On : 7 May 2020 14:33
 Operator : JC/MD
 Sample : L2497-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 02:27:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	101140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	191053	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	191828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	83368	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	89717	56.06	ug/l	0.00
Spiked Amount			Recovery	=	112.12%	
35) Dibromofluoromethane	7.55	113	52376	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	10.06	98	245861	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.38	95	93337	53.86	ug/l	0.00
Spiked Amount			Recovery	=	107.72%	

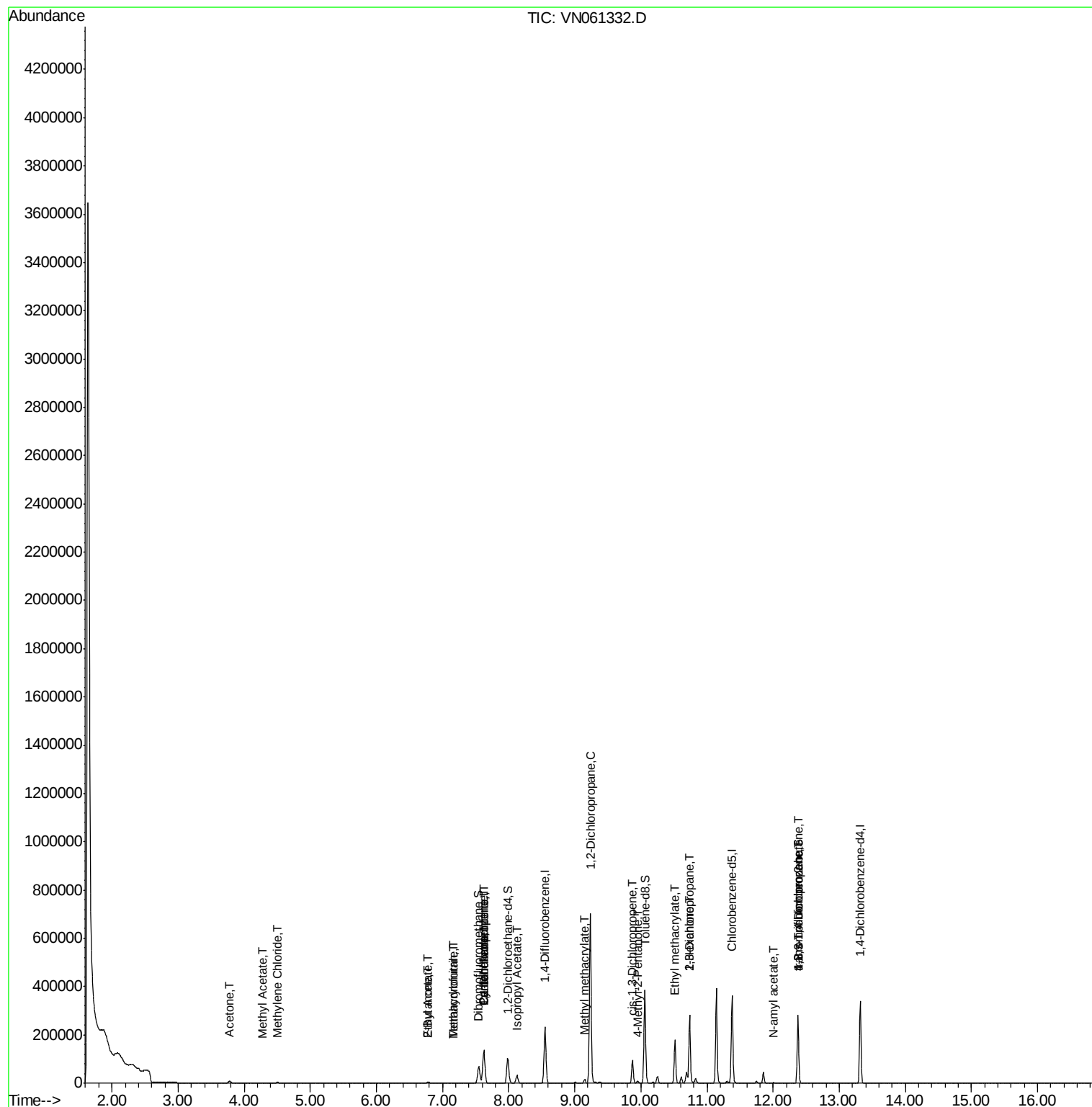
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	12246	14.583	ug/l	96
18) Methyl Acetate	4.28	43	1204	1.267	ug/l #	55
20) Methylene Chloride	4.50	84	1575	1.262	ug/l	91
25) 2-Butanone	6.79	43	2543	2.685	ug/l	100
29) Tetrahydrofuran	7.17	42	478	0.749	ug/l #	37
31) Cyclohexane	7.62	56	2959	1.271	ug/l #	15
36) 1,1-Dichloropropene	7.62	75	9629	5.035	ug/l #	50
37) Ethyl Acetate	6.79	43	2543	1.134	ug/l #	71
38) Carbon Tetrachloride	7.63	117	10845	8.217	ug/l #	16
41) Methacrylonitrile	7.18	41	244	0.262	ug/l #	100
43) Isopropyl Acetate	8.13	43	39613	10.646	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	709	0.466	ug/l #	44
48) Methyl methacrylate	9.15	41	2209	1.316	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	4593	2.097	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	14893	6.180	ug/l #	63
56) Ethyl methacrylate	10.51	69	571	2.953	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2681	1.114	ug/l #	43
59) 2-Hexanone	10.74	43	44705	28.055	ug/l #	52
74) N-amyl acetate	12.00	43	2606	0.840	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	52170	29.682	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	52170	75.377	ug/l #	8

(#) = 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# 1877

Delta R.T. 0.00 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

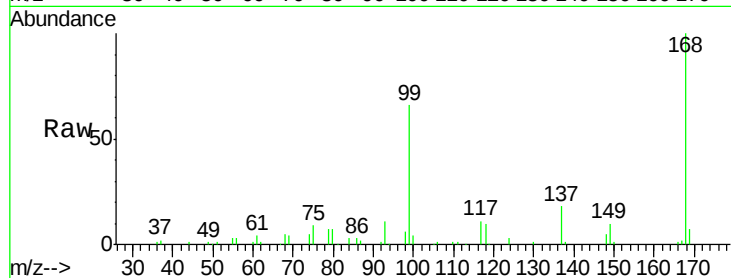
ClientSampleId :

Tot Ion:168 Resp: 101140

Ion Ratio Lower Upper

168 100

99 65.5 51.2 76.8

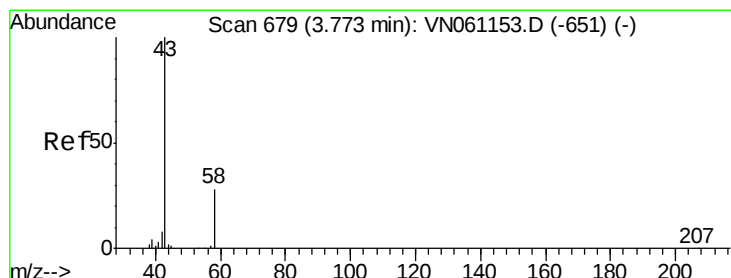
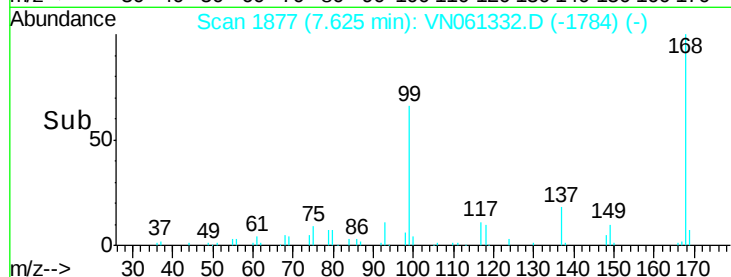


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

Time-->



#16

Acetone

Concen: 14.583 ug/l

RT: 3.77 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN061332.D

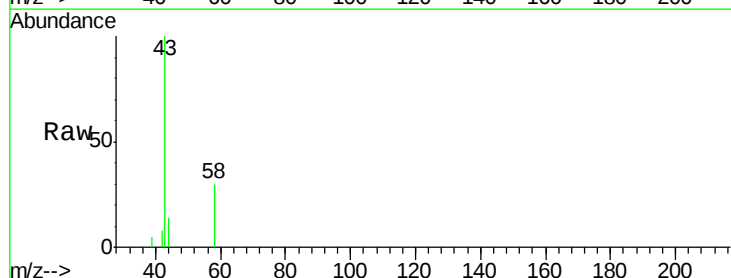
Acq: 7 May 2020 14:33

Tgt Ion: 43 Resp: 12246

Ion Ratio Lower Upper

43 100

58 29.6 22.2 33.2

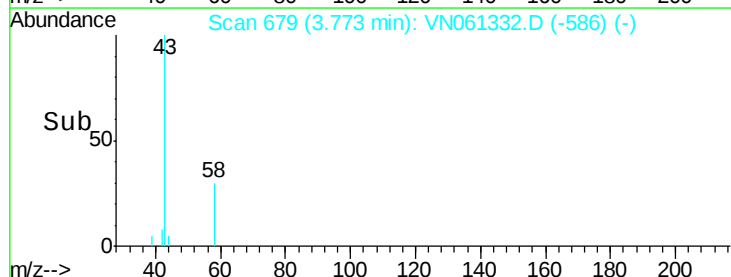


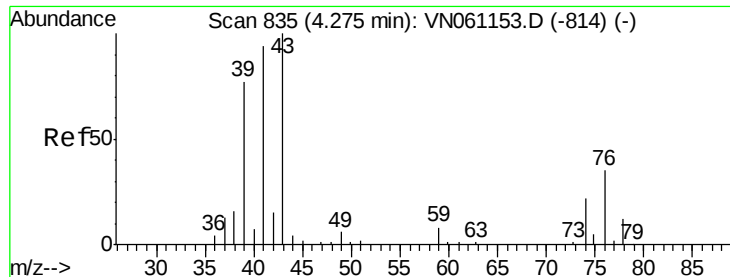
Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.77

Time-->

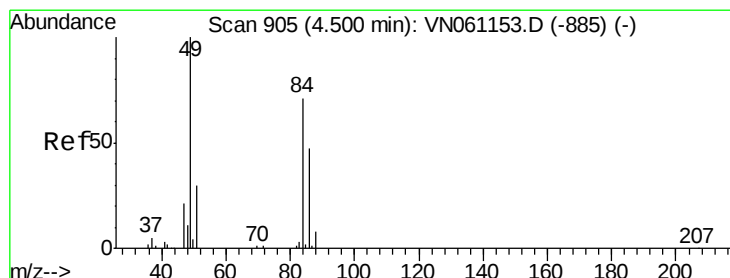
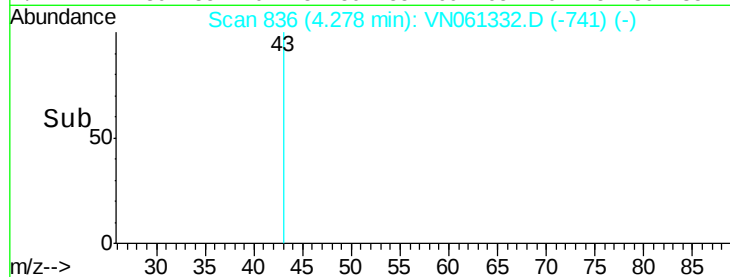
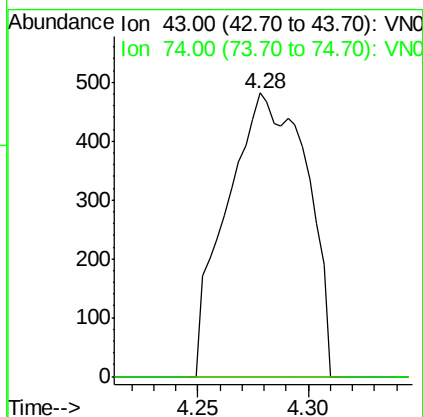
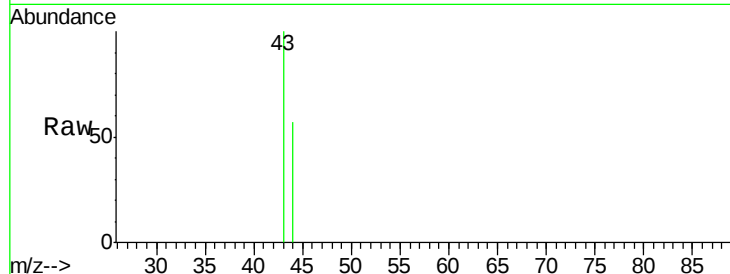




#18
Methyl Acetate
Concen: 1.267 ug/l
RT: 4.28 min Scan# 836
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

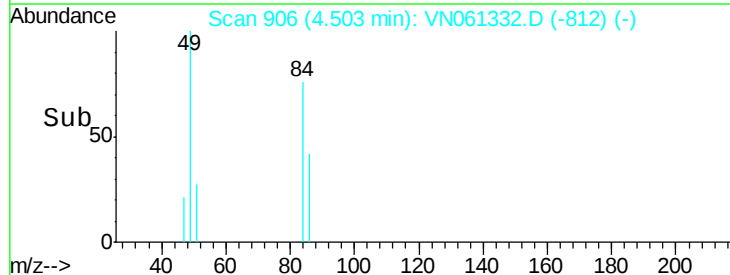
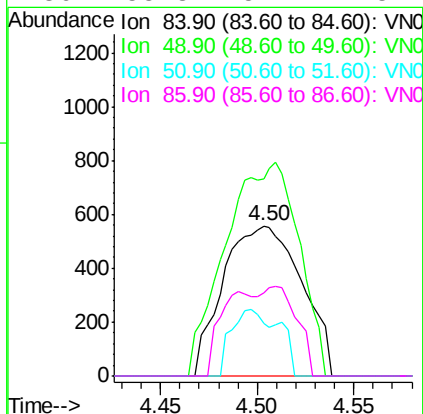
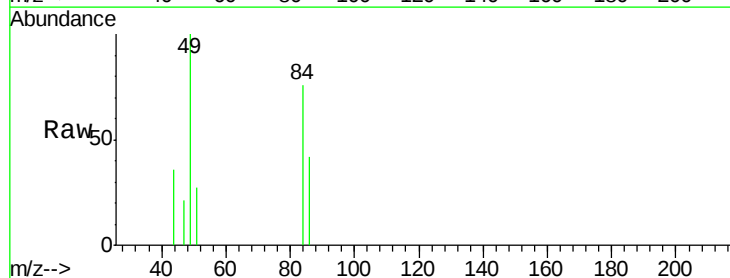
Instrument :
MSVOA_N
ClientSampled :

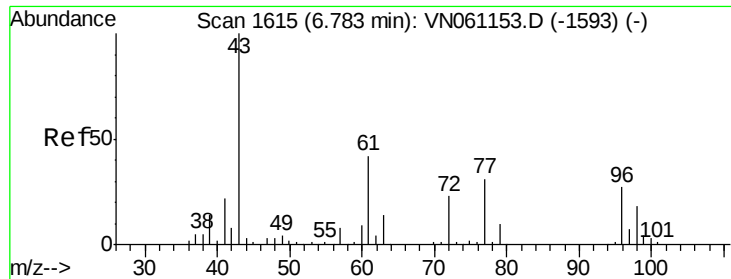
Tot Ion: 43 Resp: 1204
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 1.262 ug/l
RT: 4.50 min Scan# 906
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion: 84 Resp: 1575
Ion Ratio Lower Upper
84 100
49 131.4 112.0 168.0
51 35.4 33.6 50.4
86 55.3 52.1 78.1

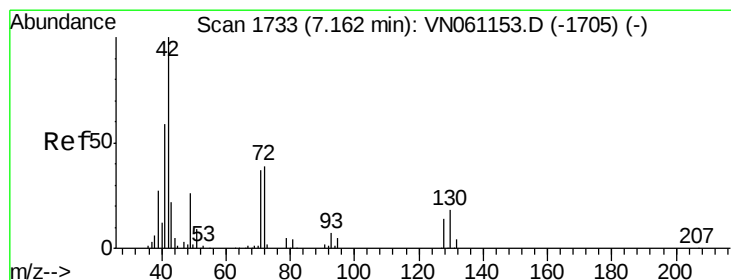
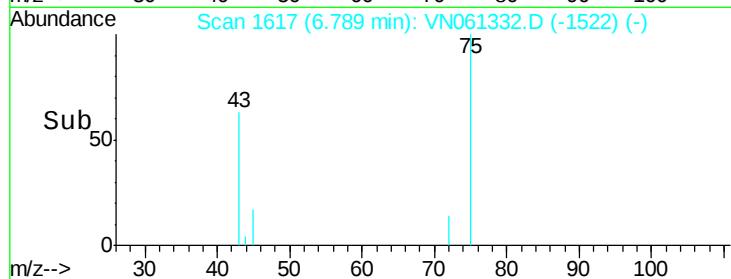
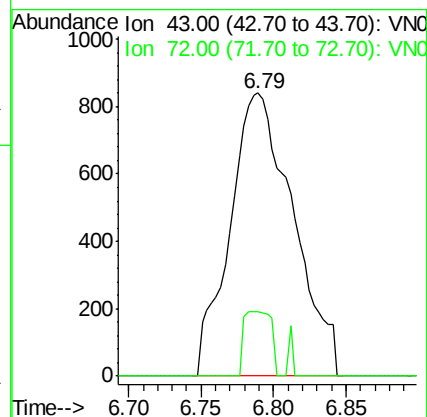
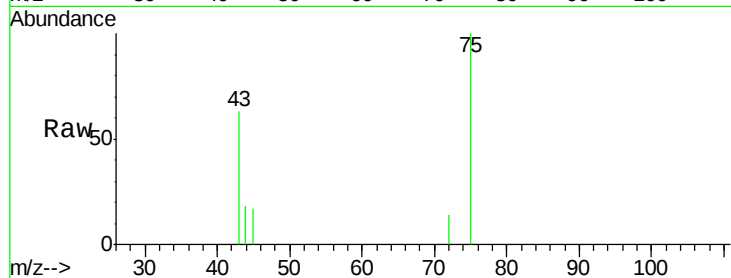




#25
2-Butanone
Concen: 2.685 ug/l
RT: 6.79 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

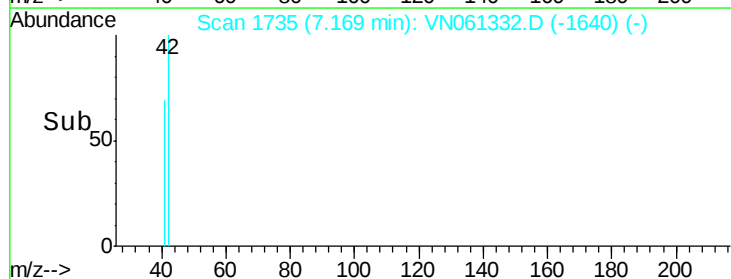
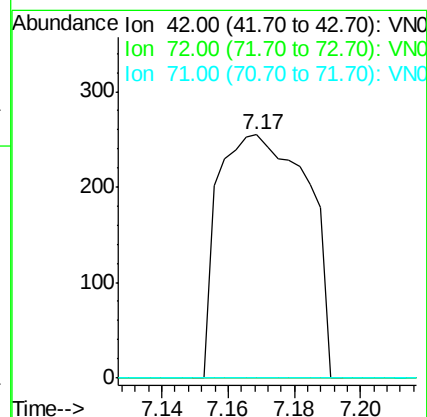
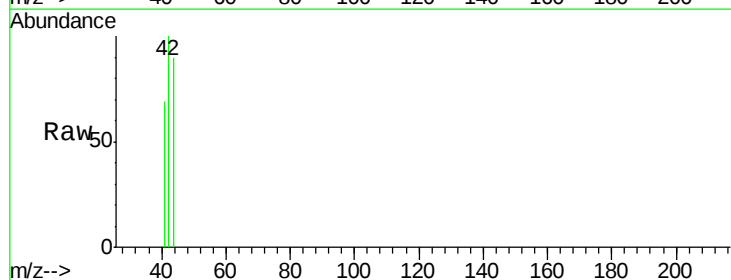
Instrument :
MSVOA_N
ClientSampleId :

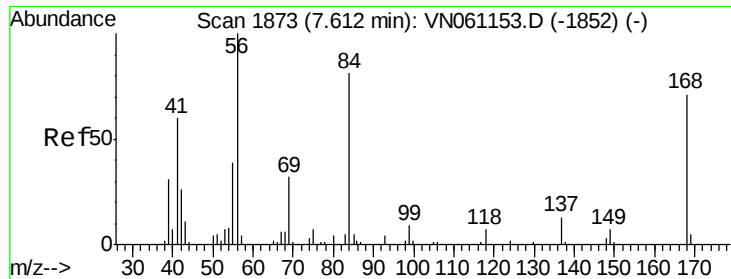
Tot Ion: 43 Resp: 2543
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.4



#29
Tetrahydrofuran
Concen: 0.749 ug/l
RT: 7.17 min Scan# 1735
Delta R.T. 0.01 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 29.5 44.3#

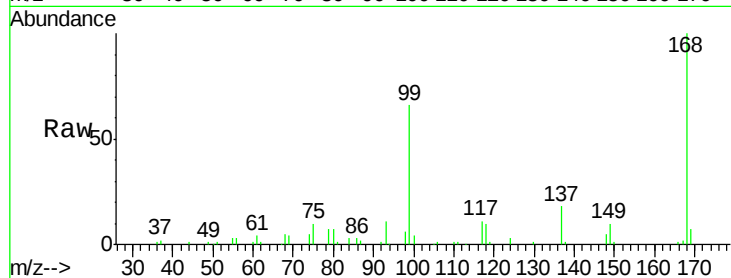




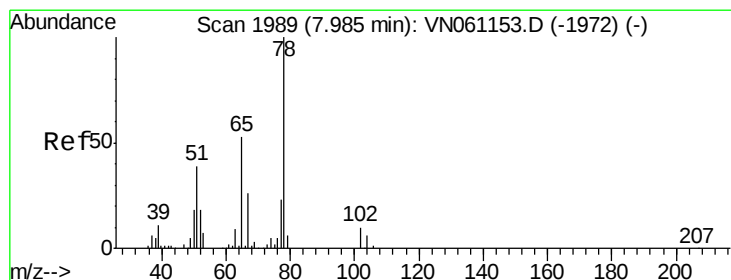
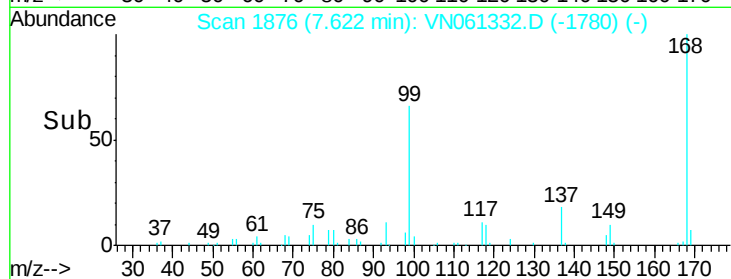
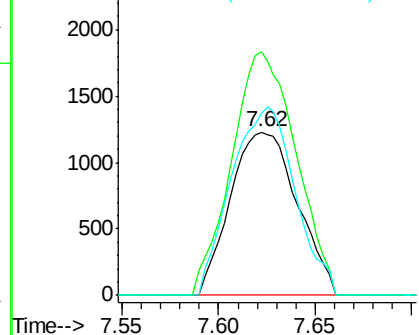
#31
Cyclohexane
Concen: 1.271 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. 0.01 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 2959
Ion Ratio Lower Upper
56 100
69 149.4 25.7 38.5#
84 111.9 64.6 97.0#

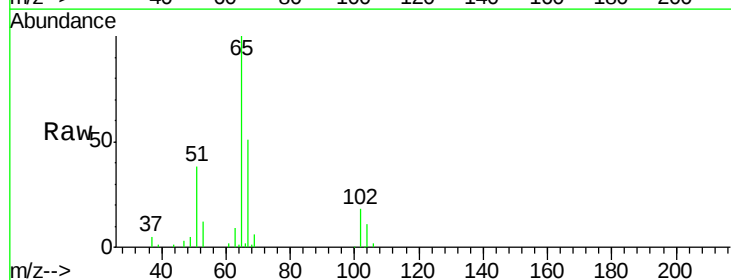


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

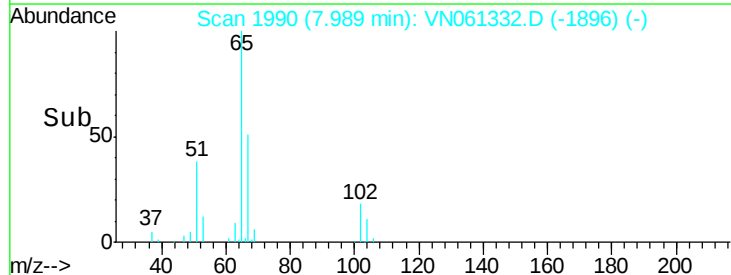
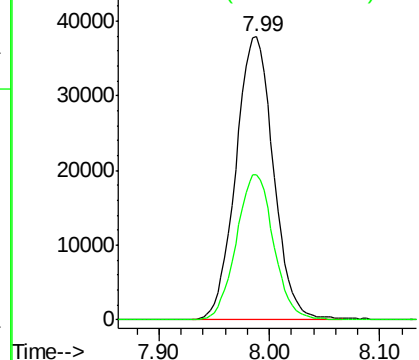


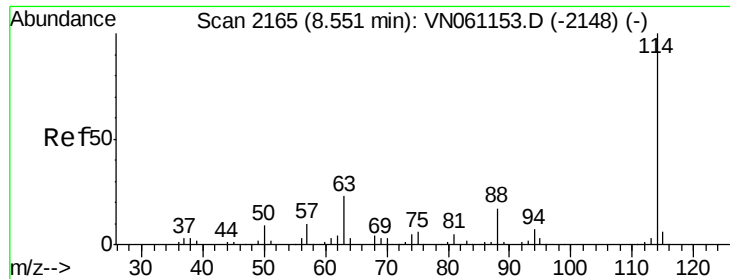
#33
1,2-Dichloroethane-d4
Concen: 56.061 ug/l
RT: 7.99 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion: 65 Resp: 89717
Ion Ratio Lower Upper
65 100
67 50.6 0.0 101.6



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

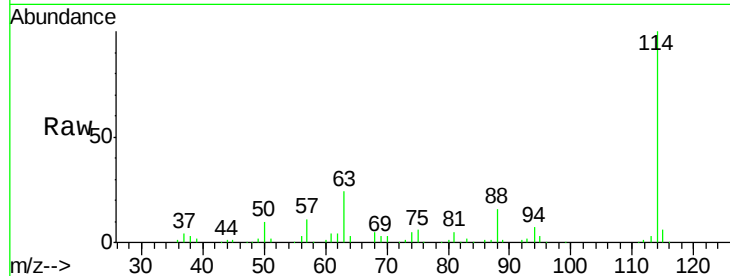




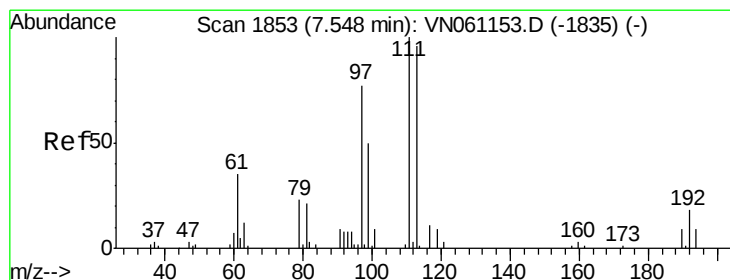
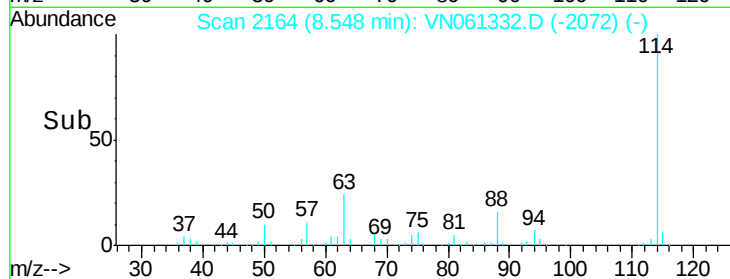
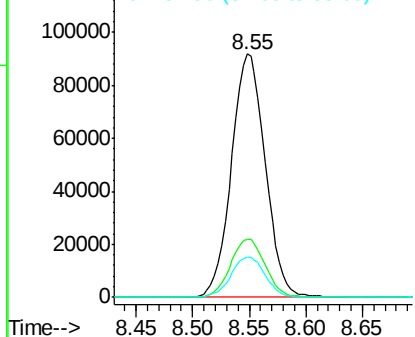
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2164
Delta R.T. -0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 191053
Ion Ratio Lower Upper
114 100
63 23.9 0.0 46.6
88 16.4 0.0 33.4

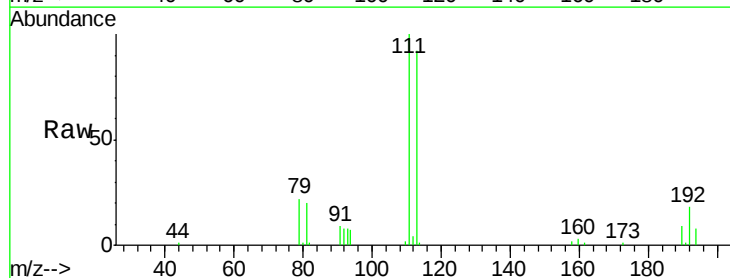


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

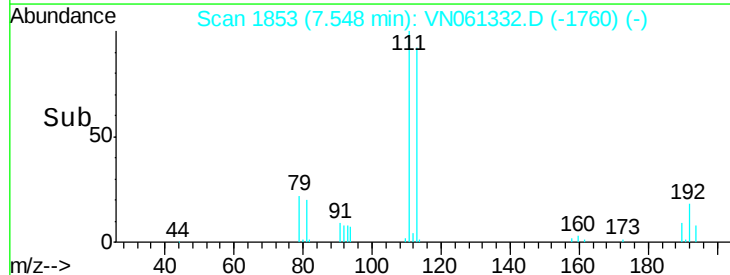
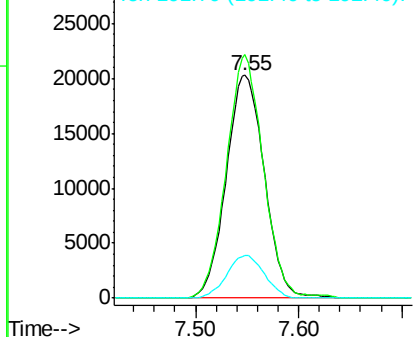


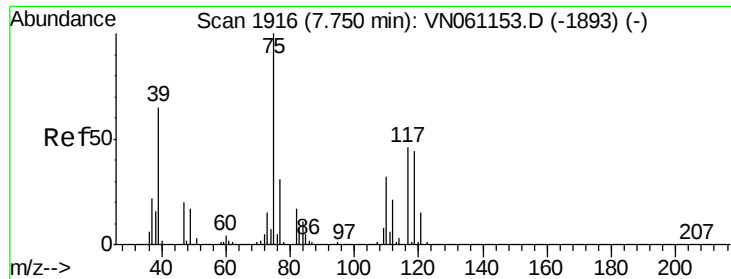
#35
Dibromofluoromethane
Concen: 46.361 ug/l
RT: 7.55 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion:113 Resp: 52376
Ion Ratio Lower Upper
113 100
111 105.1 82.9 124.3
192 18.7 14.7 22.1



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: 5.035 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. -0.13 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampled :

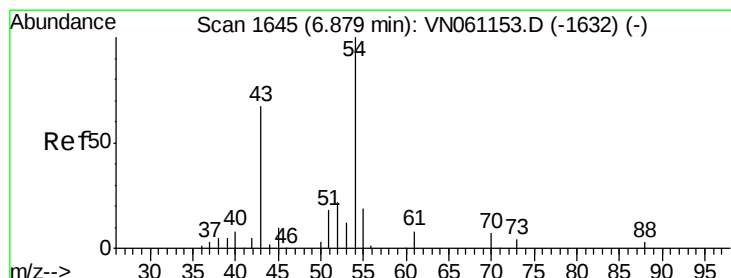
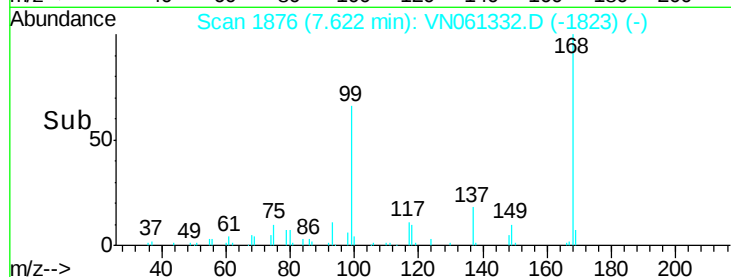
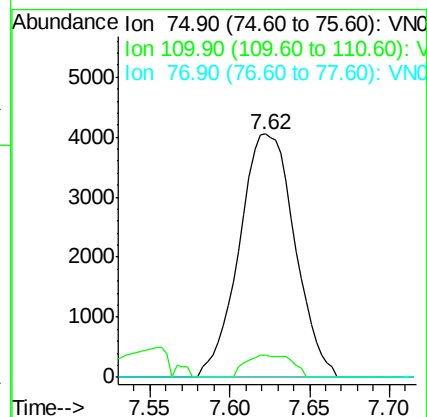
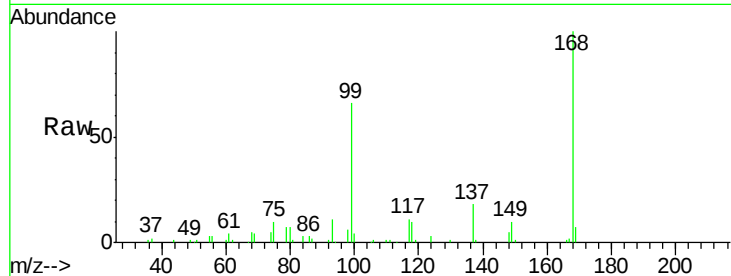
Tot Ion: 75 Resp: 9629

Ion Ratio Lower Upper

75 100

110 7.6 16.0 48.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.134 ug/l

RT: 6.79 min Scan# 1617

Delta R.T. -0.09 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

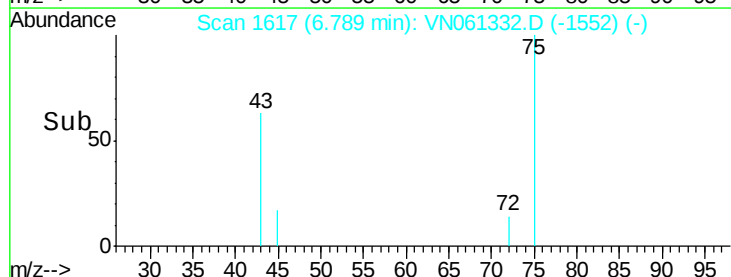
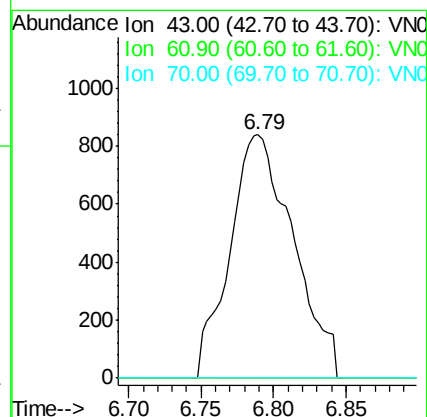
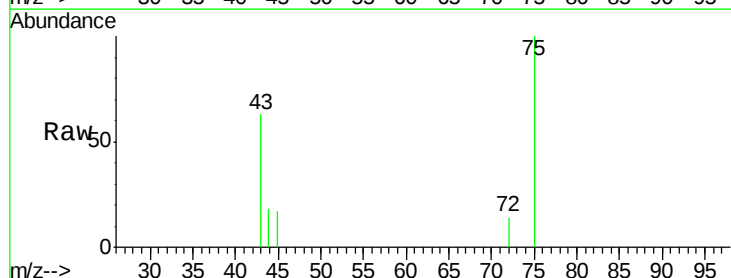
Tgt Ion: 43 Resp: 2543

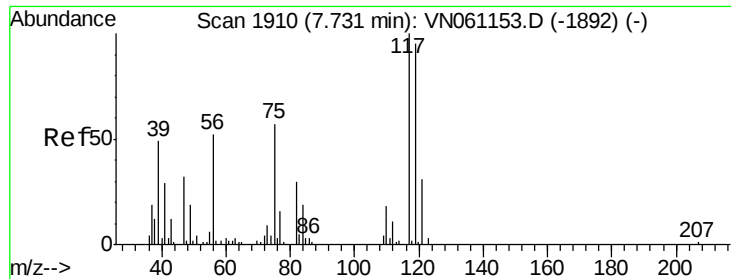
Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 8.217 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampleId :

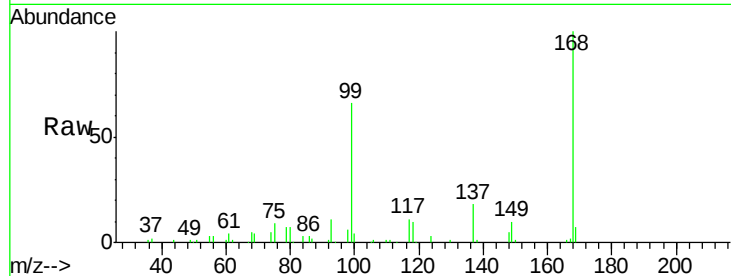
Tot Ion:117 Resp: 10845

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.6#

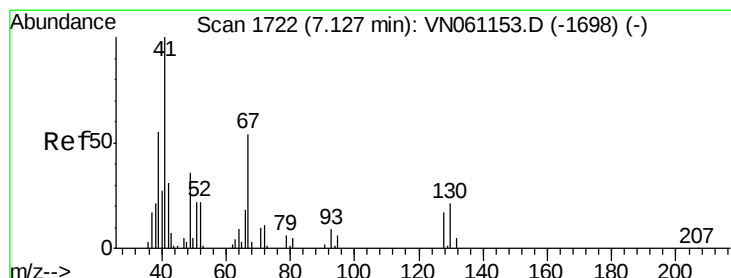
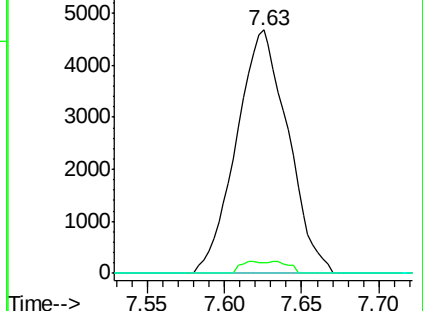
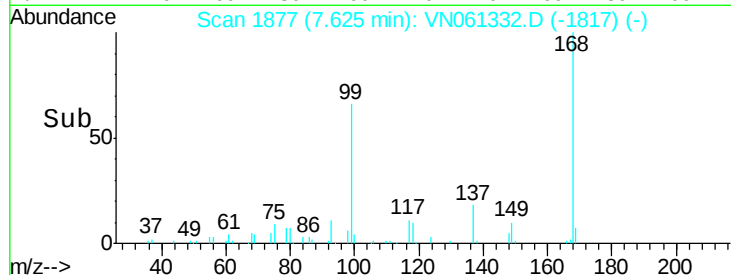
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 0.262 ug/l

RT: 7.18 min Scan# 1737

Delta R.T. 0.05 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Tgt Ion: 41 Resp: 244

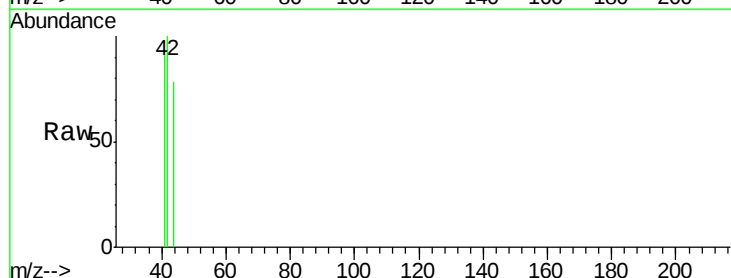
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

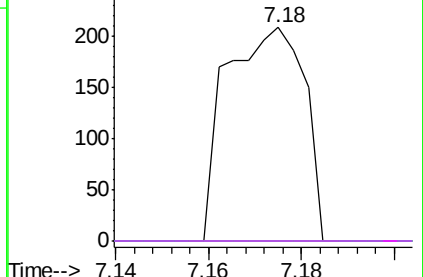
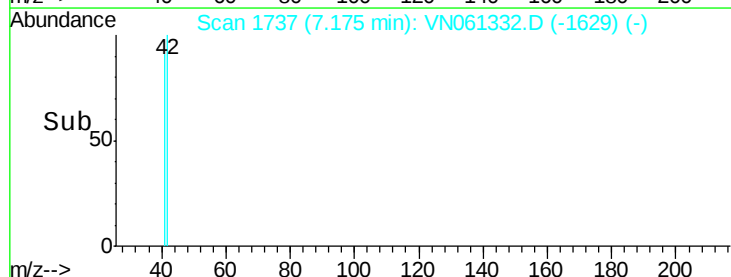


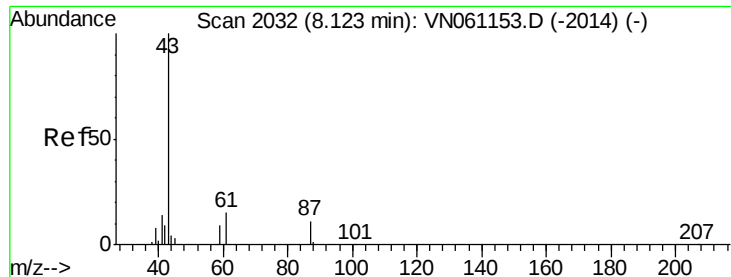
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.646 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampleId :

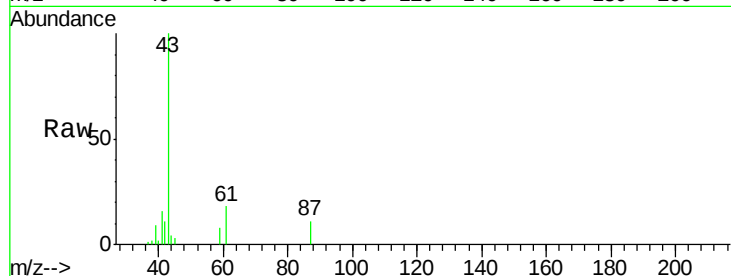
Tot Ion: 43 Resp: 39613

Ion Ratio Lower Upper

43 100

61 17.4 19.5 29.3#

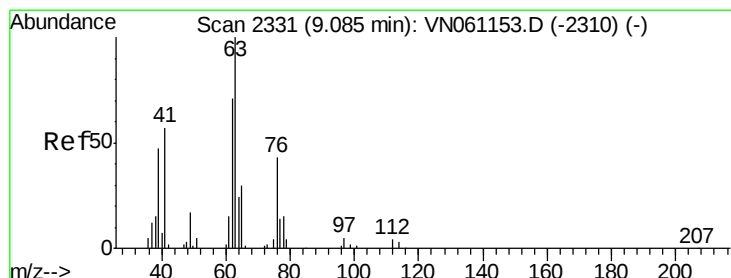
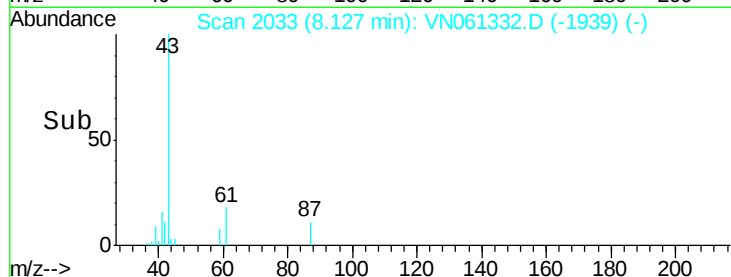
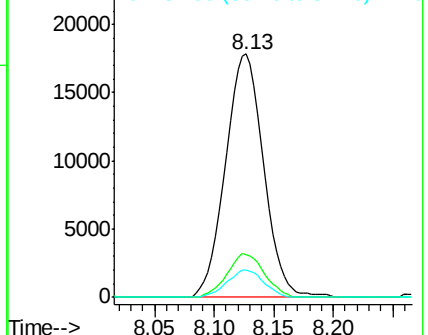
87 10.7 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2014) (-)

Ion 61.00 (60.70 to 61.70): VN061153.D (-2014) (-)

Ion 87.00 (86.70 to 87.70): VN061153.D (-2014) (-)



#45

1,2-Dichloropropane

Concen: 0.466 ug/l

RT: 9.24 min Scan# 2379

Delta R.T. 0.15 min

Lab File: VN061332.D

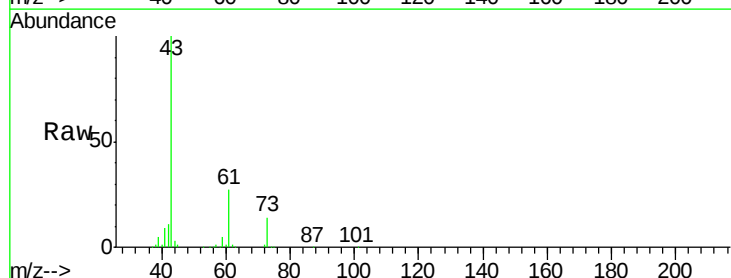
Acq: 7 May 2020 14:33

Tgt Ion: 63 Resp: 709

Ion Ratio Lower Upper

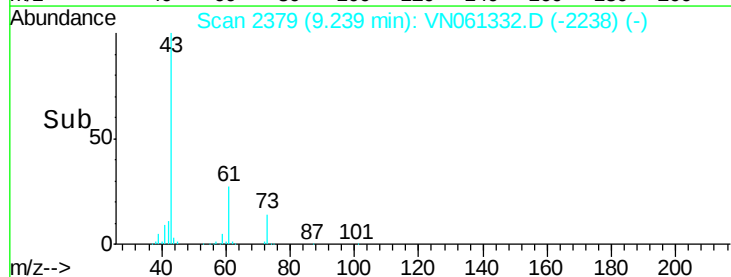
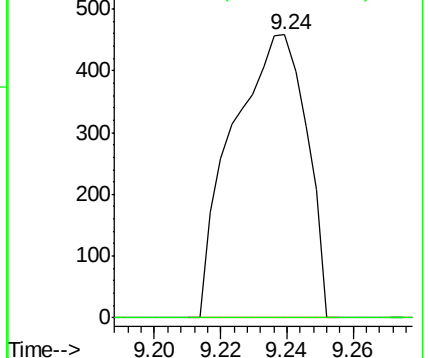
63 100

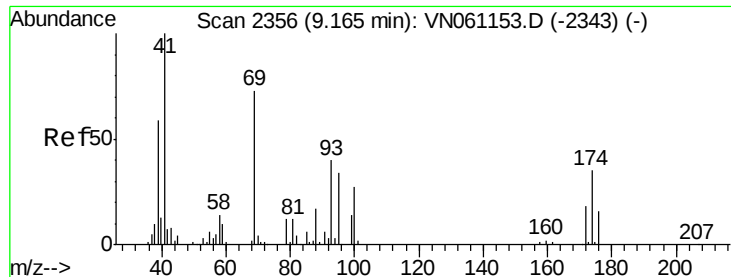
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN061153.D (-2310) (-)

Ion 64.90 (64.60 to 65.60): VN061153.D (-2310) (-)

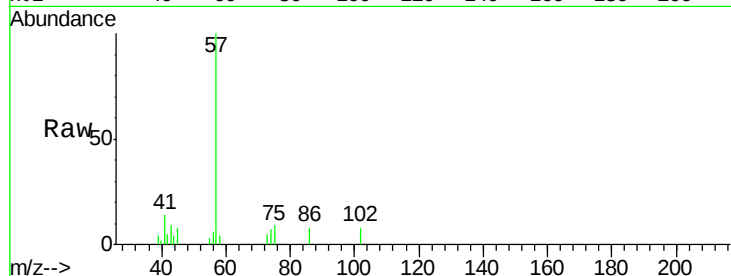




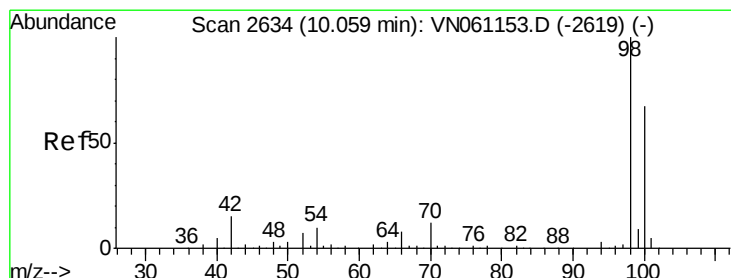
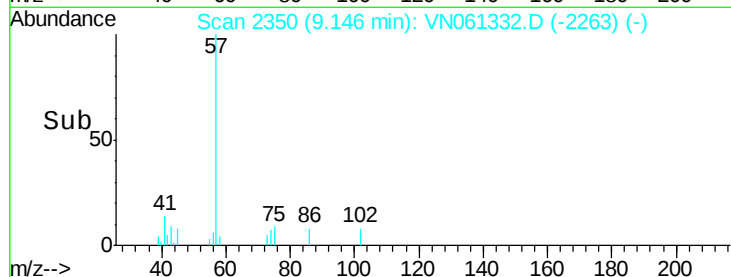
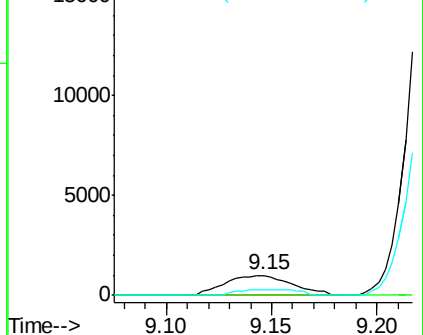
#48
Methvl methacrylate
Concen: 1.316 ug/l
RT: 9.15 min Scan# 2350
Delta R.T. -0.02 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2209
Ion Ratio Lower Upper
41 100
69 0.0 60.3 90.5#
39 0.0 47.4 71.0#

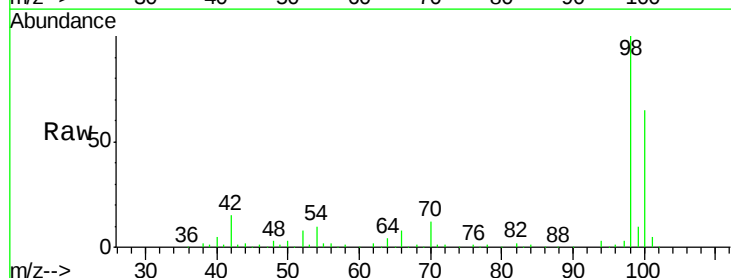


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

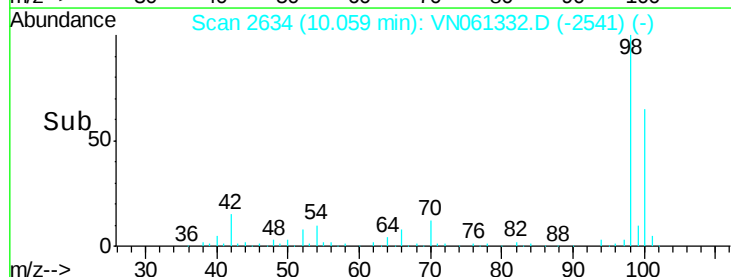
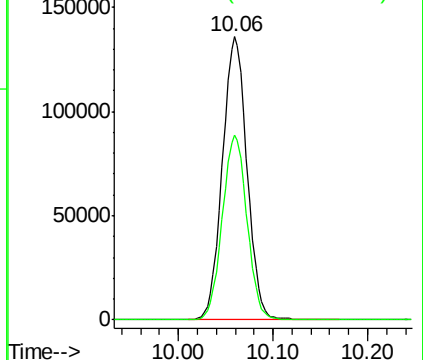


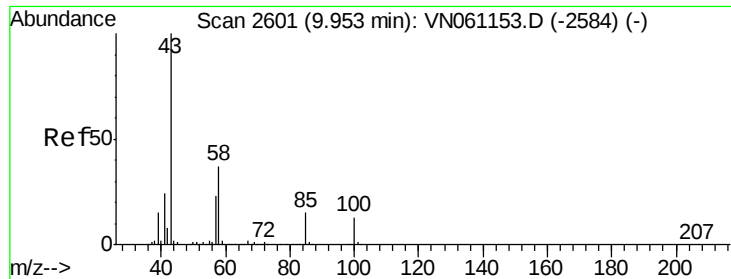
#50
Toluene-d8
Concen: 53.385 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion: 98 Resp: 245861
Ion Ratio Lower Upper
98 100
100 65.4 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.097 ug/l

RT: 9.95 min Scan# 2600

Delta R.T. -0.00 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

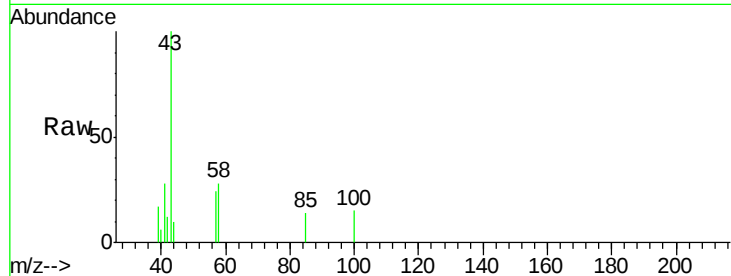
ClientSampleId :

Tot Ion: 43 Resp: 4593

Ion Ratio Lower Upper

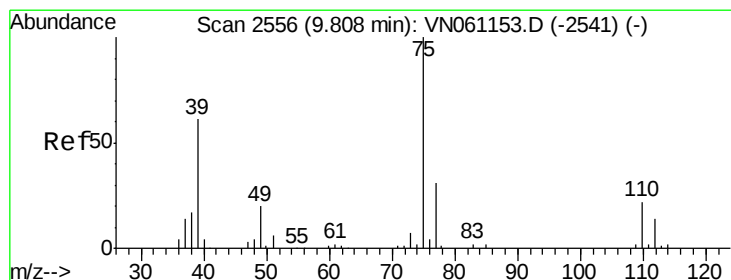
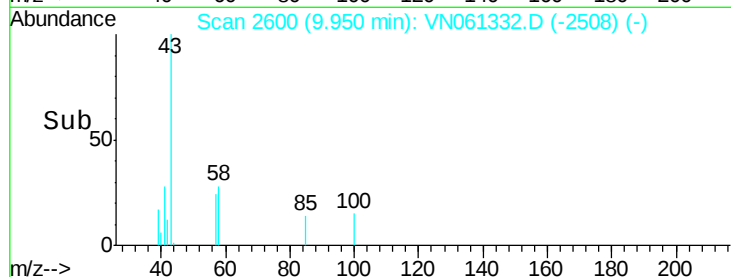
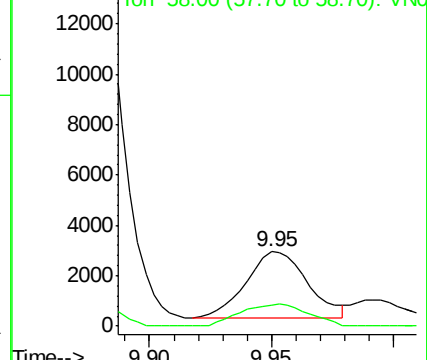
43 100

58 36.7 29.1 43.7



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: 6.180 ug/l

RT: 9.87 min Scan# 2576

Delta R.T. 0.06 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

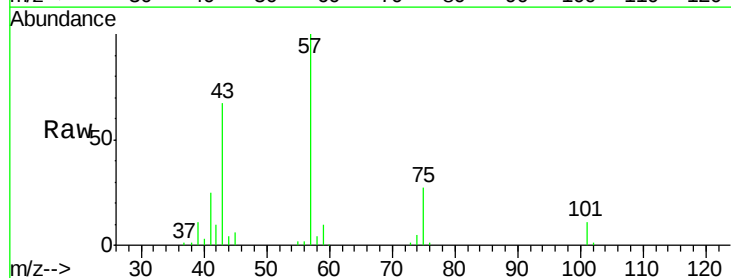
Tgt Ion: 75 Resp: 14893

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

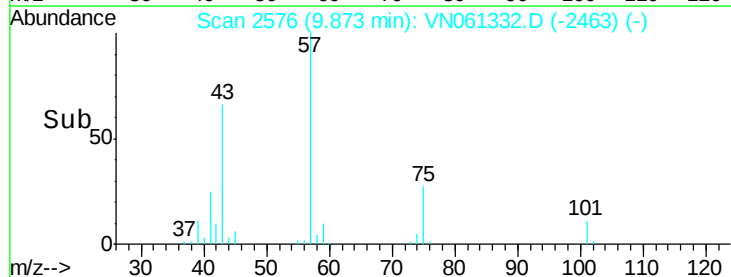
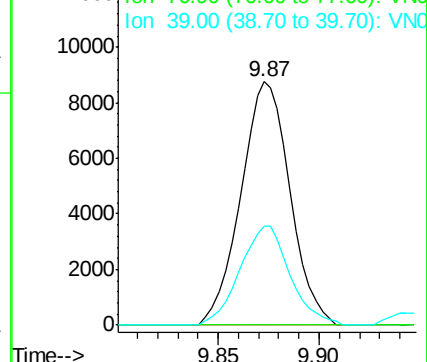
39 40.7 48.7 73.1#

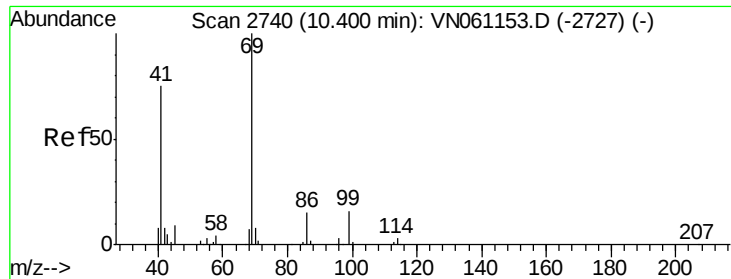


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.953 ug/l

RT: 10.51 min Scan# 2775

Delta R.T. 0.11 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampled :

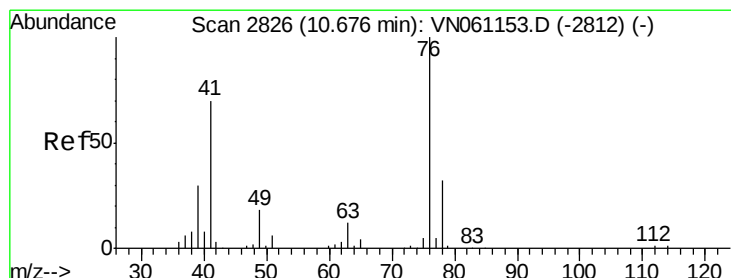
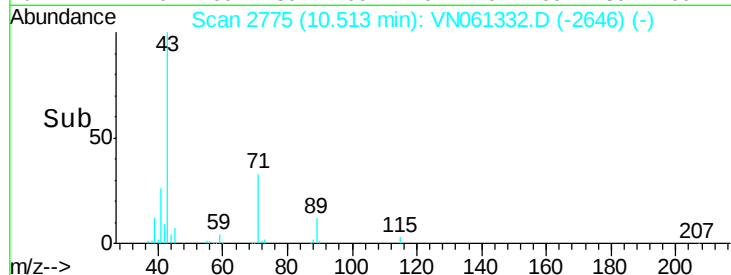
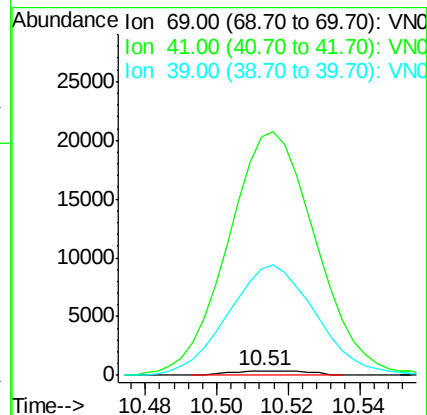
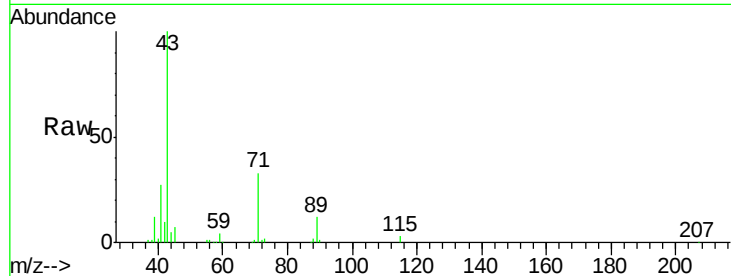
Tot Ion: 69 Resp: 571

Ion Ratio Lower Upper

69 100

41 6236.8 60.3 90.5#

39 2818.0 35.9 53.9#



#57

1,3-Dichloropropane

Concen: 1.114 ug/l

RT: 10.73 min Scan# 2844

Delta R.T. 0.06 min

Lab File: VN061332.D

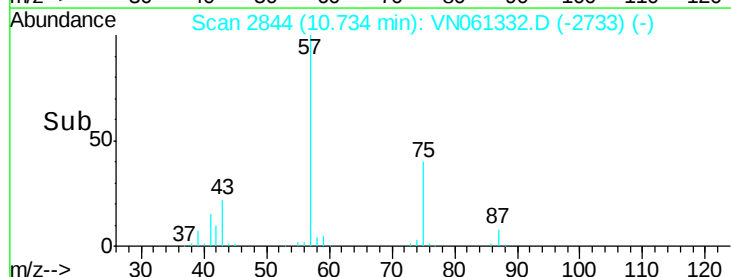
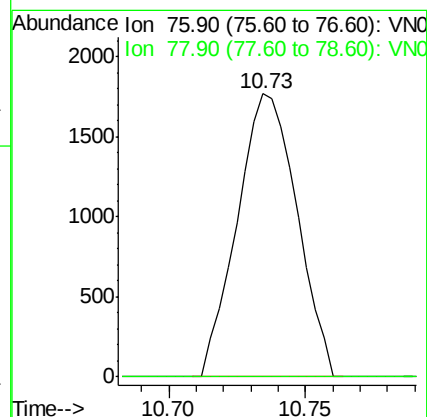
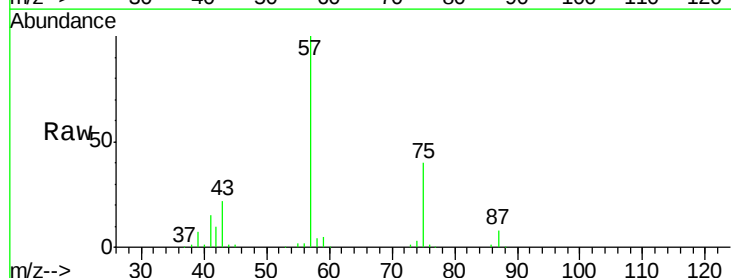
Acq: 7 May 2020 14:33

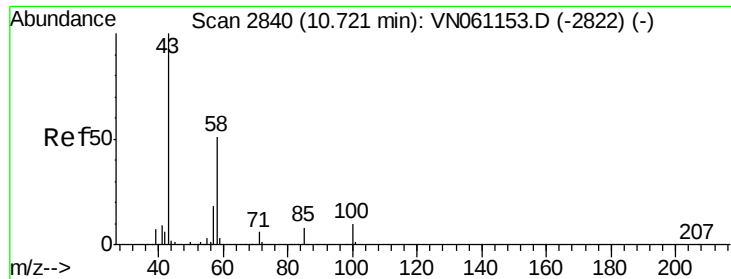
Tgt Ion: 76 Resp: 2681

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#





#59

2-Hexanone

Concen: 28.055 ug/l

RT: 10.74 min Scan# 2845

Delta R.T. 0.02 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

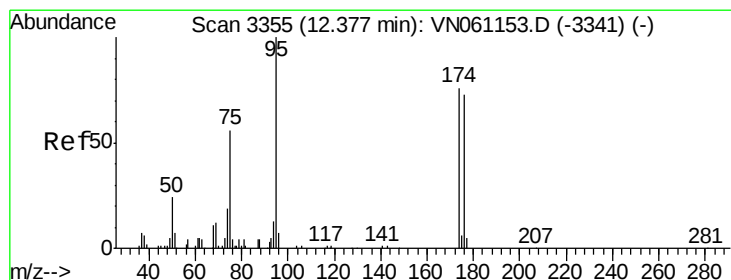
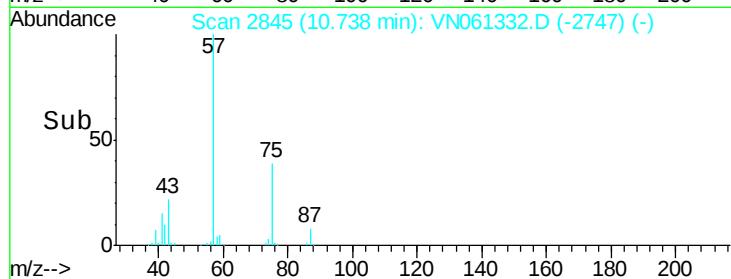
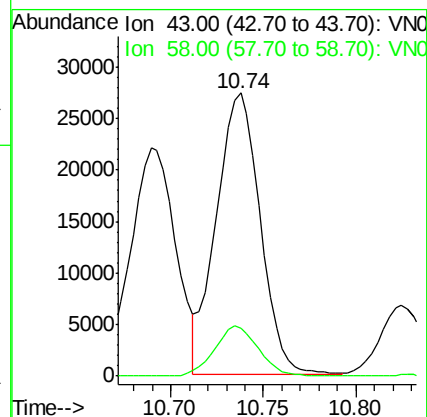
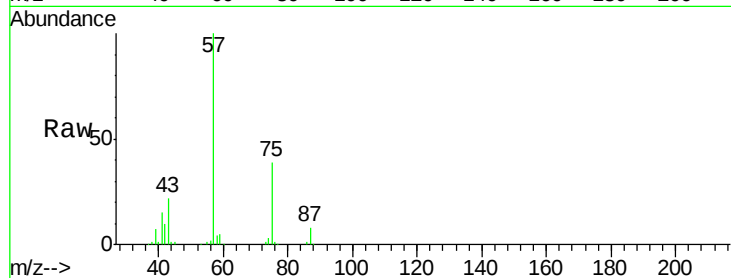
ClientSampleId :

Tot Ion: 43 Resp: 44705

Ion Ratio Lower Upper

43 100

58 17.8 25.4 76.4#



#62

4-Bromofluorobenzene

Concen: 53.856 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

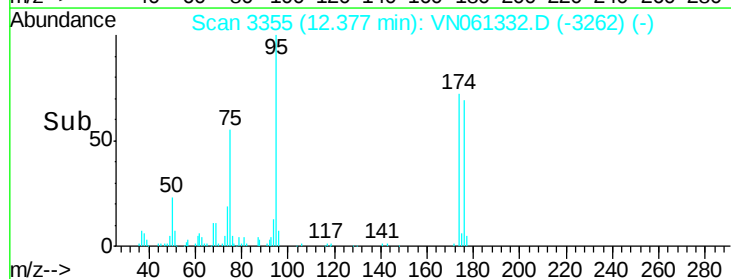
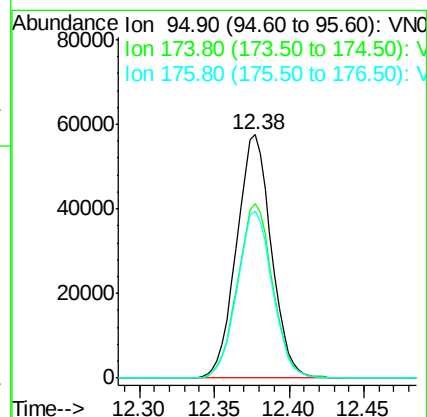
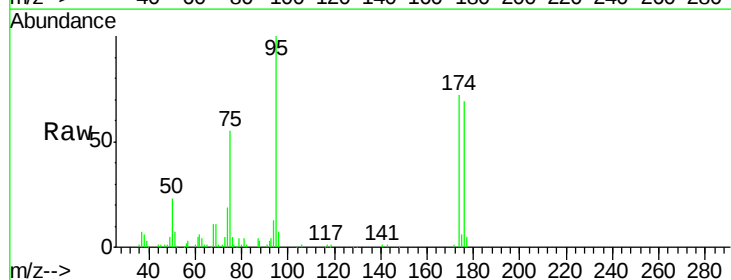
Tgt Ion: 95 Resp: 93337

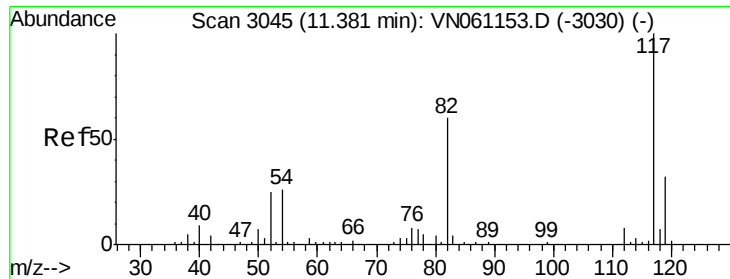
Ion Ratio Lower Upper

95 100

174 72.4 0.0 149.4

176 69.4 0.0 144.8

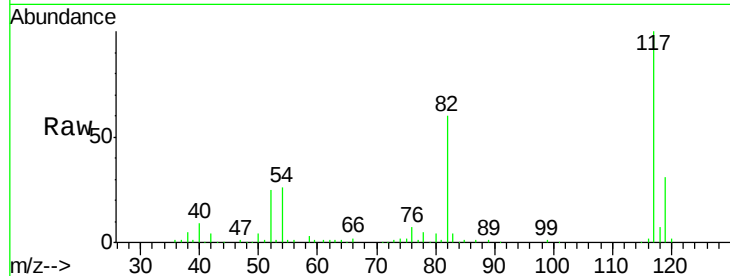




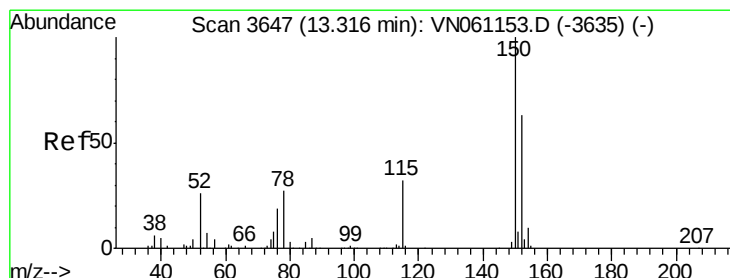
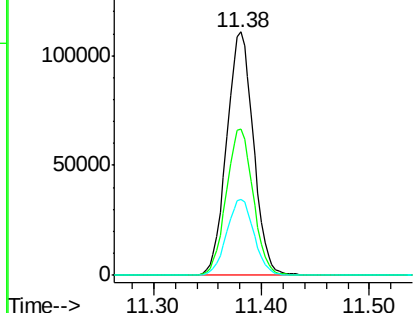
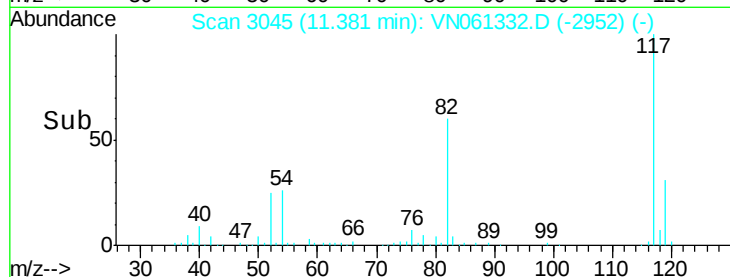
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 191828
Ion Ratio Lower Upper
117 100
82 60.0 47.8 71.8
119 31.4 25.8 38.6

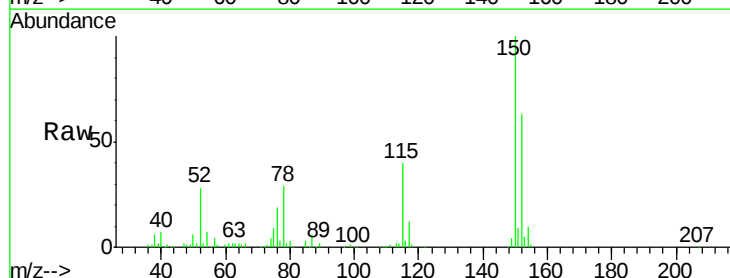


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

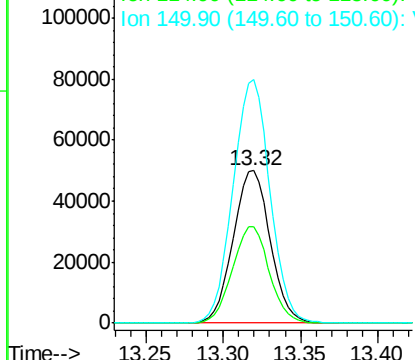
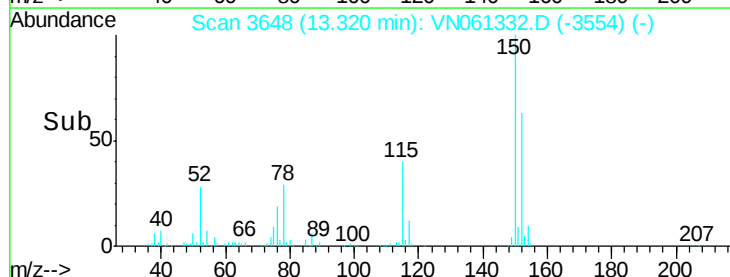


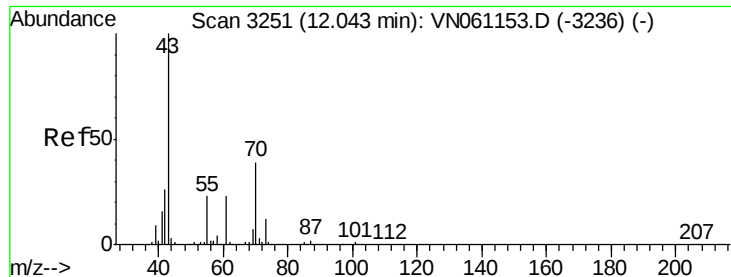
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3648
Delta R.T. 0.00 min
Lab File: VN061332.D
Acq: 7 May 2020 14:33

Tgt Ion:152 Resp: 83368
Ion Ratio Lower Upper
152 100
115 62.8 31.0 93.0
150 159.4 0.0 351.8



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: 0.840 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2606

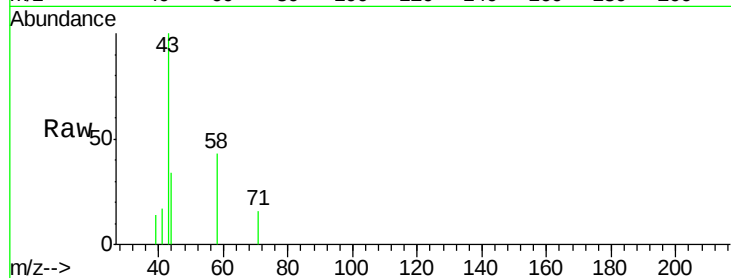
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

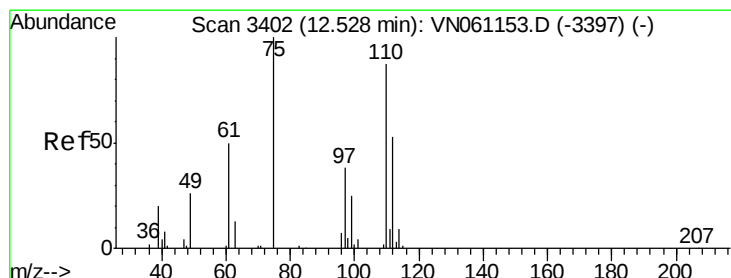
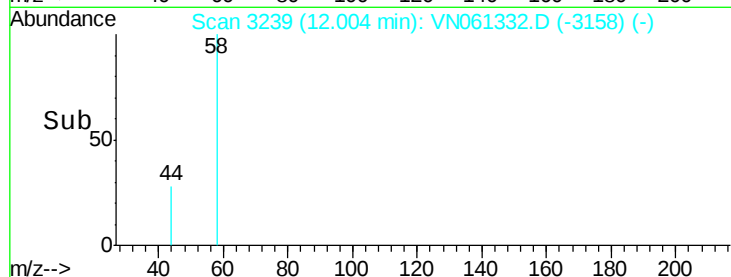
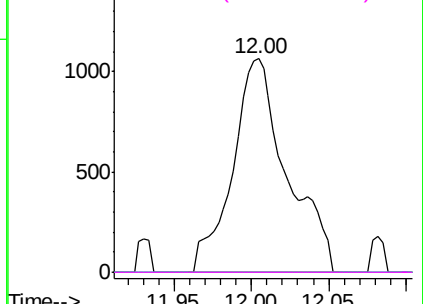


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.682 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061332.D

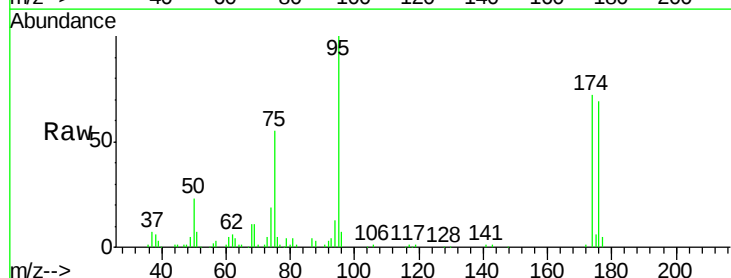
Acq: 7 May 2020 14:33

Tgt Ion: 75 Resp: 52170

Ion Ratio Lower Upper

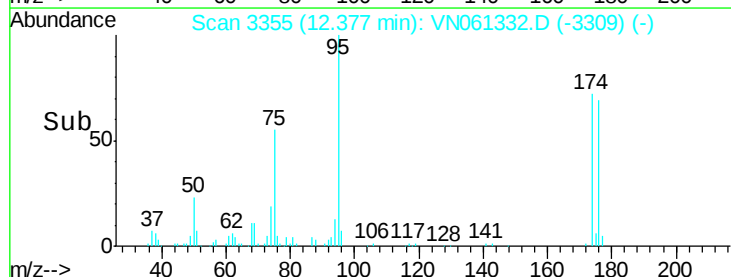
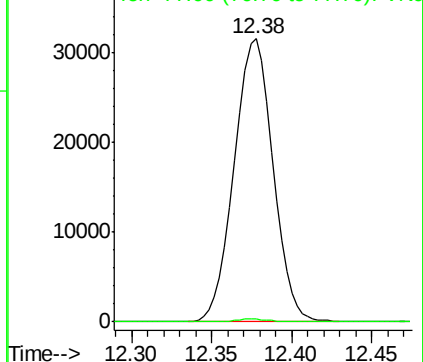
75 100

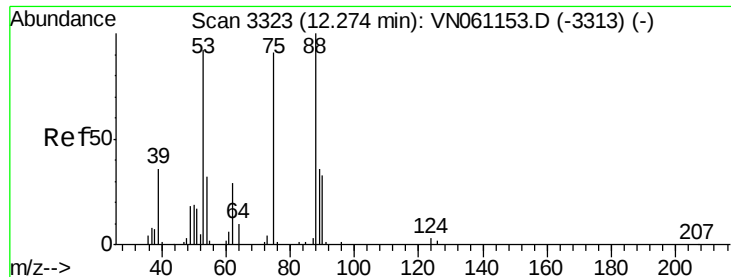
77 0.8 0.0 0.0#



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: 75.377 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061332.D

Acq: 7 May 2020 14:33

Instrument :

MSVOA_N

ClientSampleId :

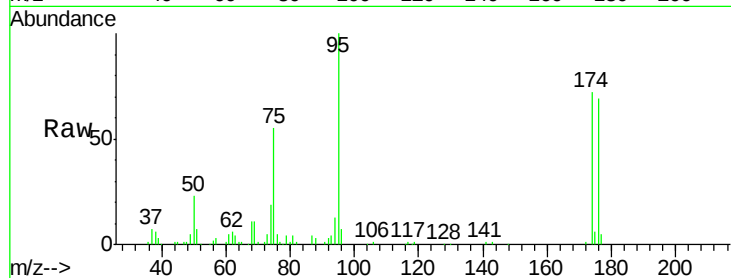
Tot Ion: 75 Resp: 52170

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#



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

