

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051520\
 Data File : VN061415.D
 Acq On : 15 May 2020 17:58
 Operator : JC/MD
 Sample : L2682-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 16 00:25:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	17282	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	103454	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	90706	30.00	ug/l	0.00

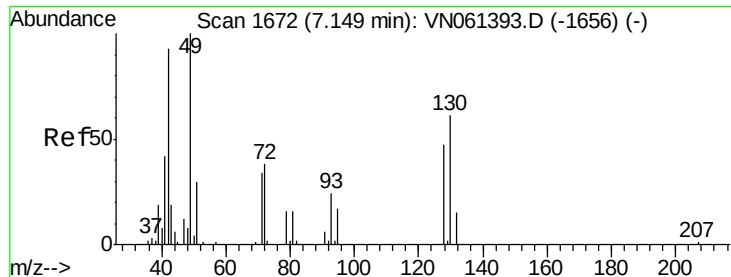
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	48943	31.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.40%
60) 4-Bromofluorobenzene	12.38	95	43394	28.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.40%
63) Toluene-d8	10.06	98	128156	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue	
3) Chloromethane	2.03	50	326	0.227	ug/l #	42
13) Acrolein	3.77	56	558	2.940	ug/l #	1
15) Acetone	3.77	58	892495	7023.199	ug/l	91
20) Diisopropyl ether	5.91	45	451356	103.769	ug/l #	85
23) tert-Butyl Alcohol	4.73	59	82	0.483	ug/l #	100
25) Chloroform	7.33	83	1302	0.591	ug/l	84
30) 2-Butanone	6.79	43	3708	4.828	ug/l #	77
35) Methacrylonitrile	7.14	41	167	0.217	ug/l #	33
36) 1,2-Dichloroethane	8.55	62	4079	2.069	ug/l #	77
43) Ethyl Acetate	6.79	43	3708	2.260	ug/l	97
44) Isopropyl Acetate	8.13	43	952	0.299	ug/l #	1
48) t-1,3-Dichloropropene	9.87	75	1794	0.804	ug/l #	41
49) cis-1,3-Dichloropropene	9.87	75	2023	0.857	ug/l #	68
50) 1,1,2-Trichloroethane	10.07	97	4373	3.626	ug/l #	1
51) Ethyl methacrylate	10.33	69	1144	0.551	ug/l #	75
56) Bromoform	12.38	173	241	0.290	ug/l #	1
58) 4-Methyl-2-Pentanone	9.95	43	4495	2.719	ug/l #	86
59) 2-Hexanone	10.72	43	1098	0.939	ug/l #	79
72) 1,2,3-Trichloropropane	12.38	75	24780	16.317	ug/l	1
77) t-1,4-Dichloro-2-butene	12.21	75	1404	2.221	ug/l #	10
85) n-Butylbenzene	13.59	91	1383	0.300	ug/l	91
88) 1,2-Dibromo-3-Chloropropan	13.90	75	620	1.827	ug/l #	7
89) 1,2,4-Trichlorobenzene	14.89	180	366	0.302	ug/l #	80
91) Naphthalene	15.11	128	1708	0.448	ug/l #	74
92) 1,2,3-Trichlorobenzene	15.28	180	285	0.242	ug/l #	79

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VN061415.D

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Instrument :
MSVOA_N
ClientSampleId :

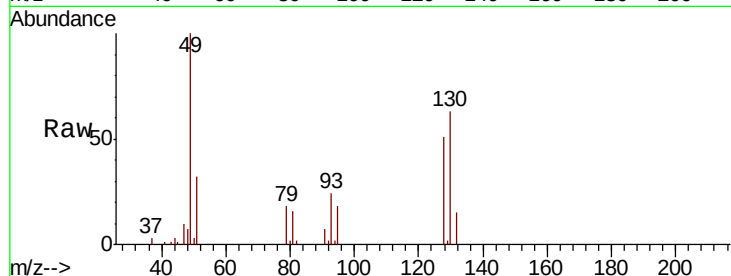
Tot Ion:128 Resp: 17282

Ion Ratio Lower Upper

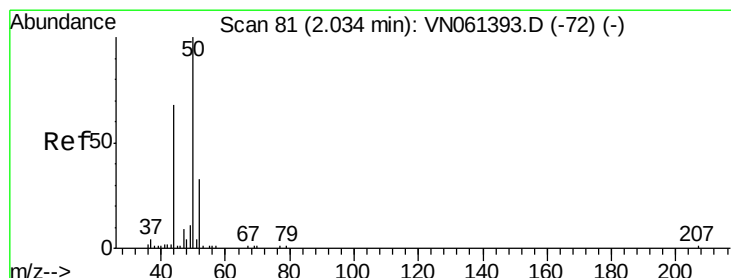
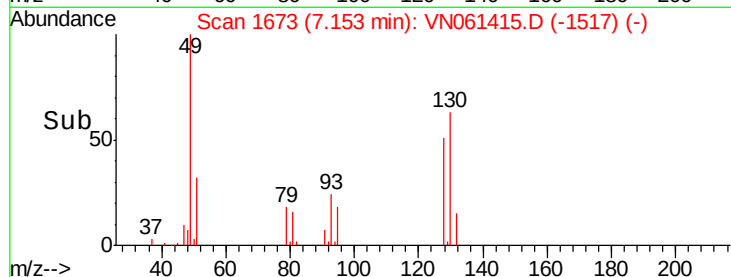
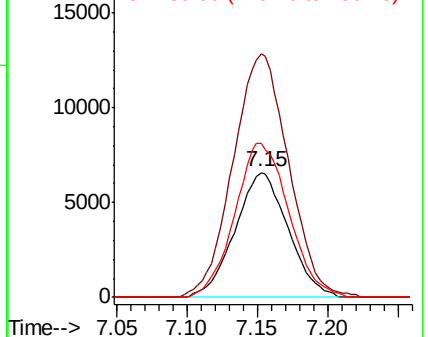
128 100

49 204.7 0.0 453.5

130 126.4 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.227 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061415.D

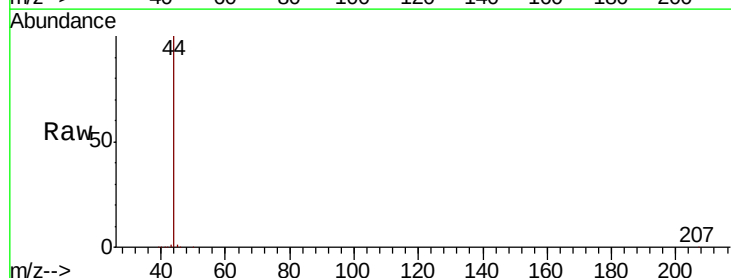
Acq: 15 May 2020 17:58

Tgt Ion: 50 Resp: 326

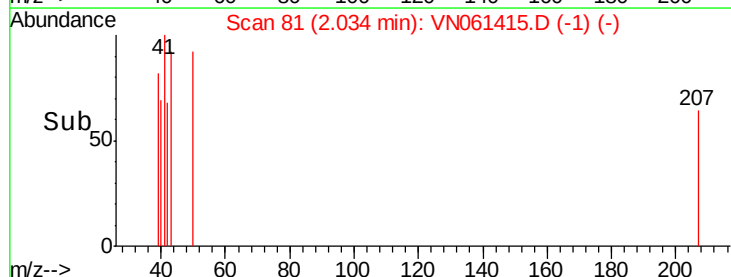
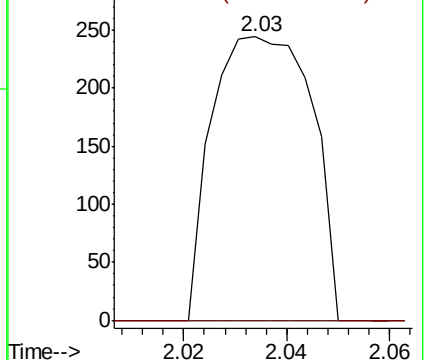
Ion Ratio Lower Upper

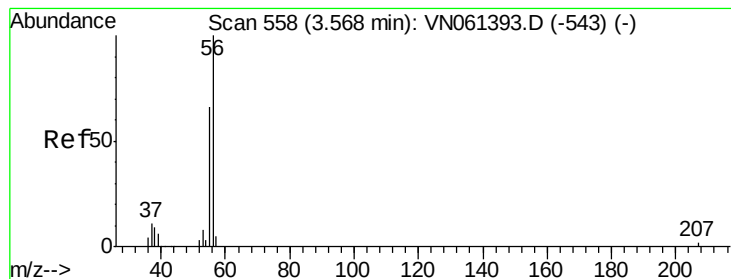
50 100

52 0.0 25.8 38.8#



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#13

Acrolein

Concen: 2.940 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.20 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

Instrument :

MSVOA_N

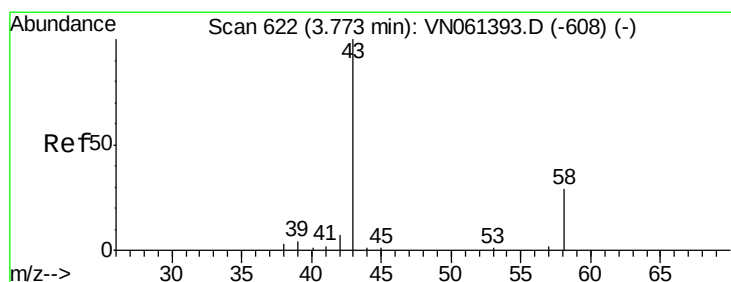
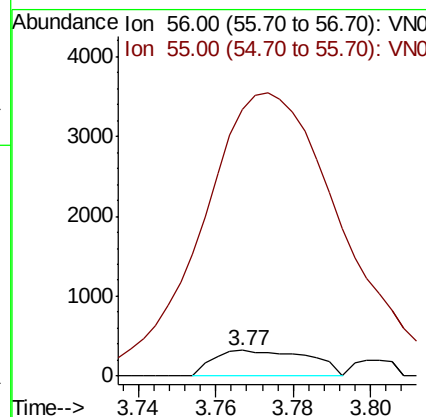
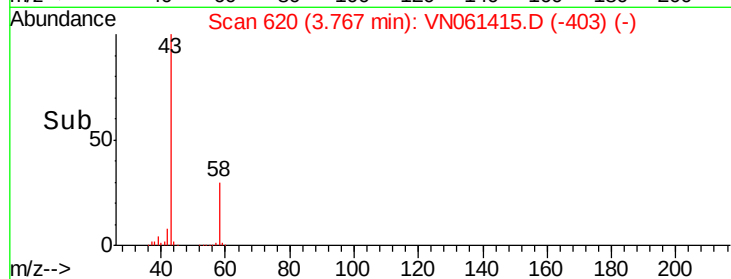
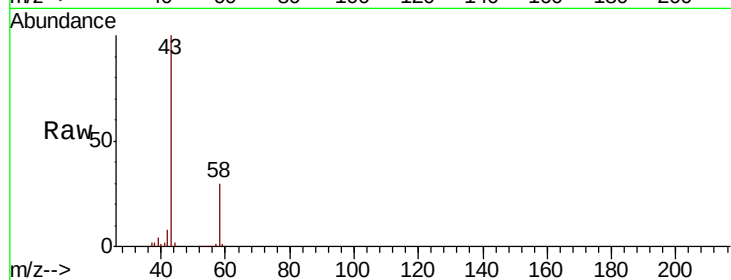
ClientSampleId :

Tot Ion: 56 Resp: 558

Ion Ratio Lower Upper

56 100

55 1614.0 55.9 83.9#



#15

Acetone

Concen: 7023.199 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061415.D

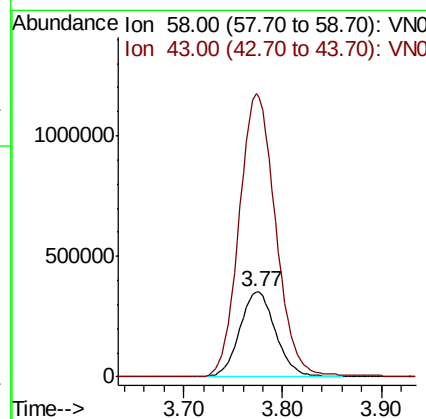
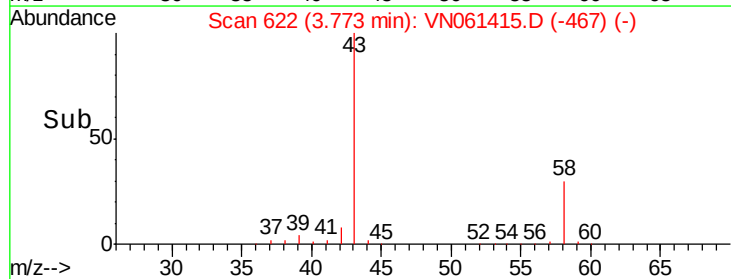
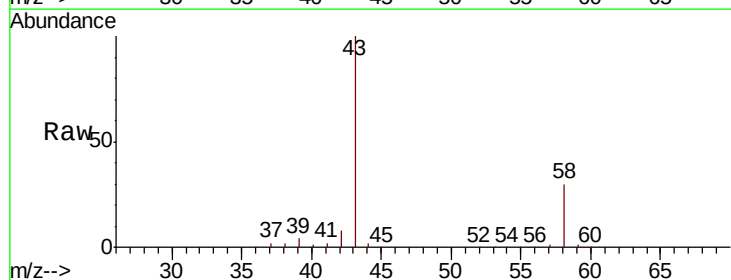
Acq: 15 May 2020 17:58

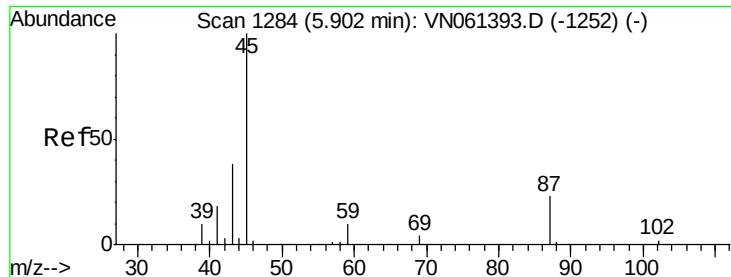
Tgt Ion: 58 Resp: 892495

Ion Ratio Lower Upper

58 100

43 331.6 281.7 422.5

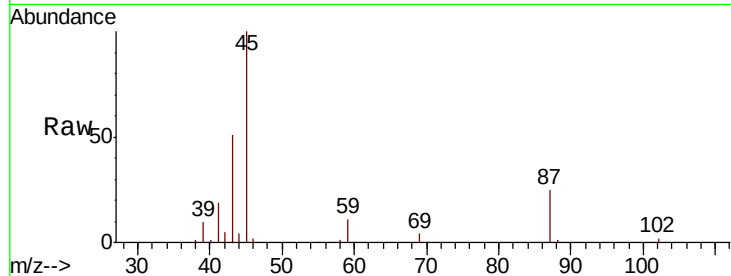




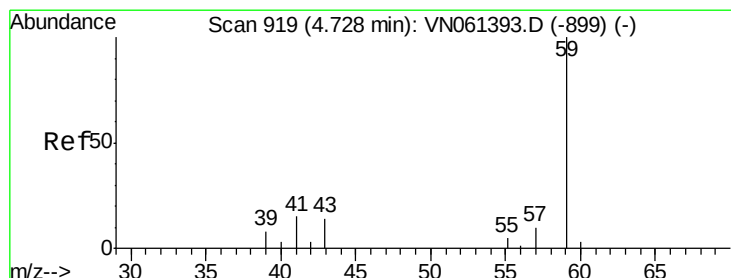
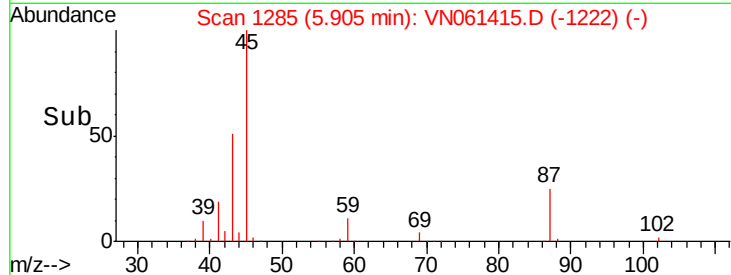
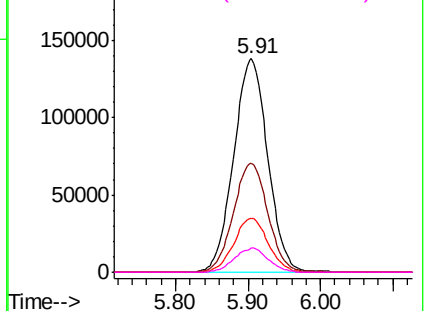
#20
Diisopropyl ether
Concen: 103.769 ug/l
RT: 5.91 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	45	Resp:	451356
Ion	Ratio	Lower	Upper
45	100		
43	50.9	54.7	82.1#
87	25.3	21.5	32.3
59	11.2	8.7	13.1

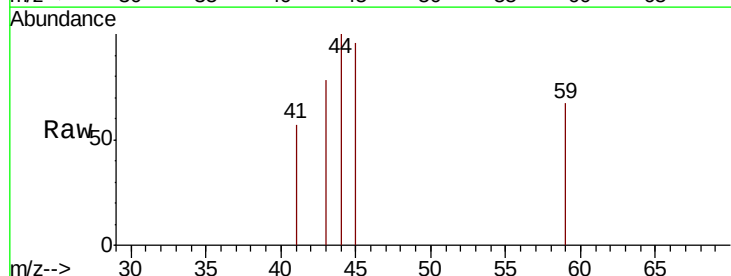


Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0

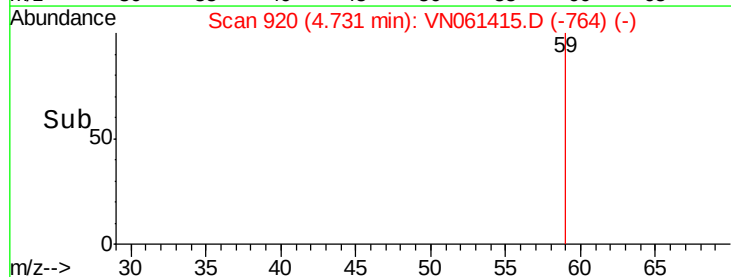
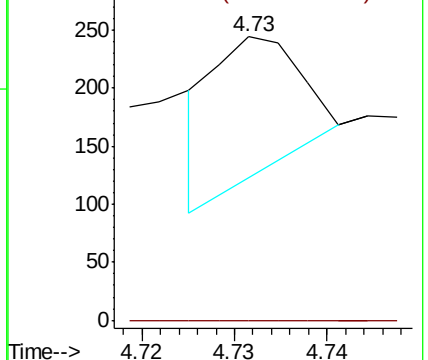


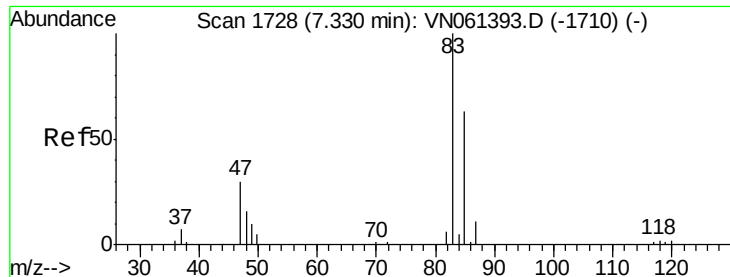
#23
tert-Butyl Alcohol
Concen: 0.483 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion:	59	Resp:	82
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

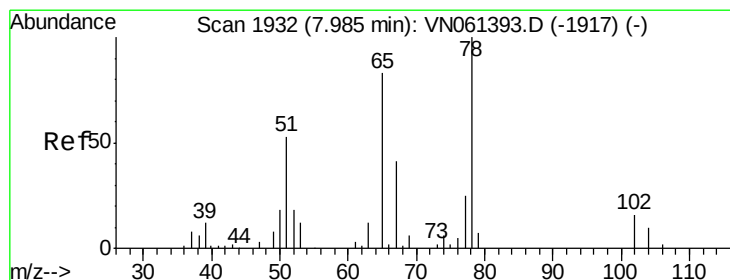
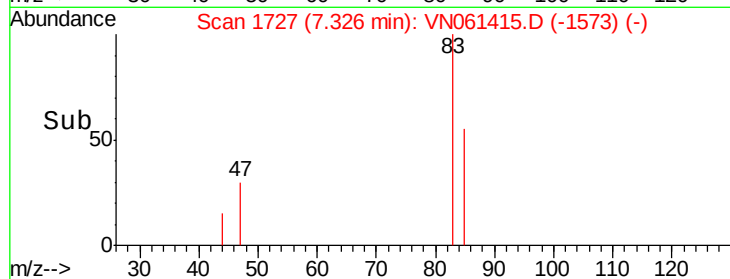
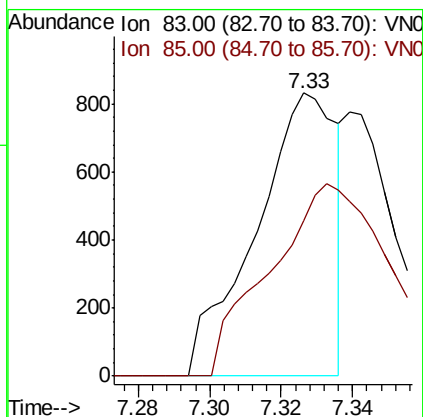
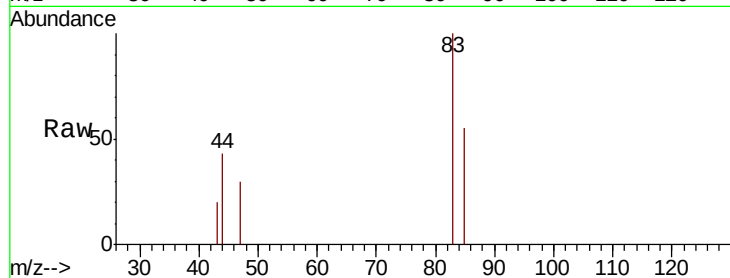




#25
Chloroform
Concen: 0.591 ug/l
RT: 7.33 min Scan# 1727
Delta R.T. -0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

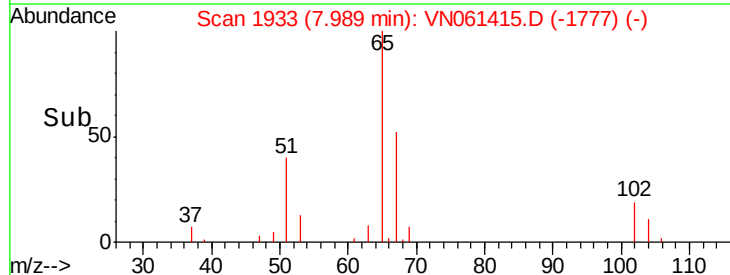
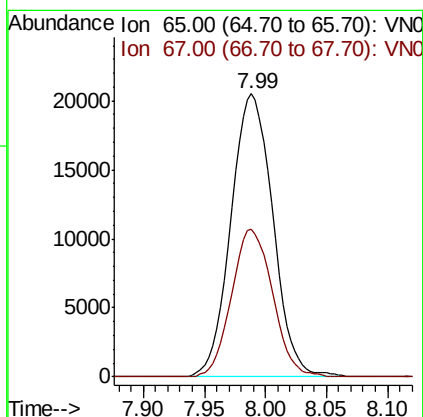
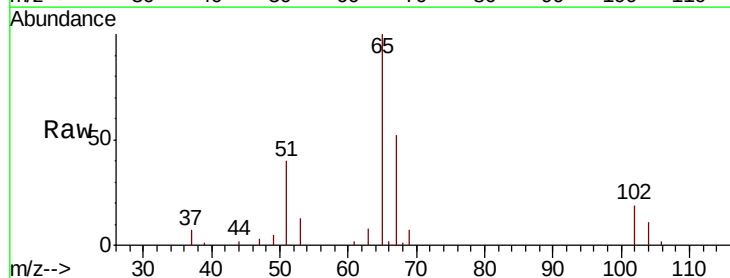
Instrument :
MSVOA_N
ClientSampled :

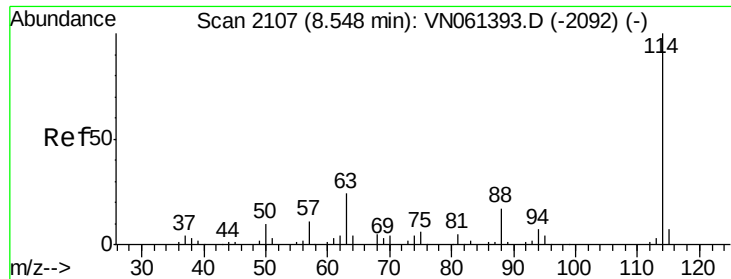
Tot Ion: 83 Resp: 1302
Ion Ratio Lower Upper
83 100
85 54.7 53.8 80.8



#27
1,2-Dichloroethane-d4
Concen: 31.624 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion: 65 Resp: 48943
Ion Ratio Lower Upper
65 100
67 51.1 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

Instrument :

MSVOA_N

ClientSampleId :

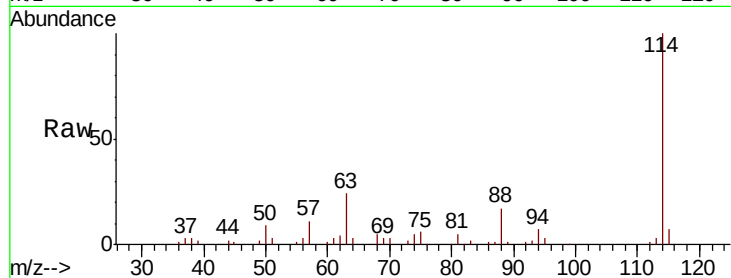
Tot Ion:114 Resp: 103454

Ion Ratio Lower Upper

114 100

63 24.0 18.1 27.1

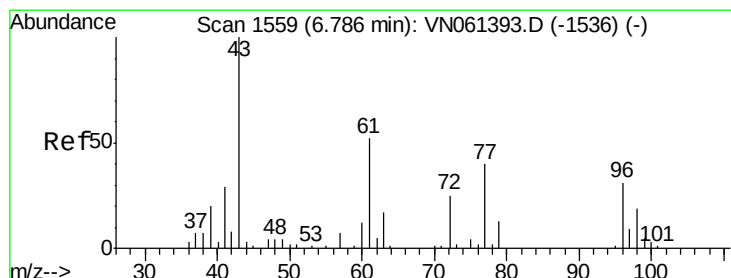
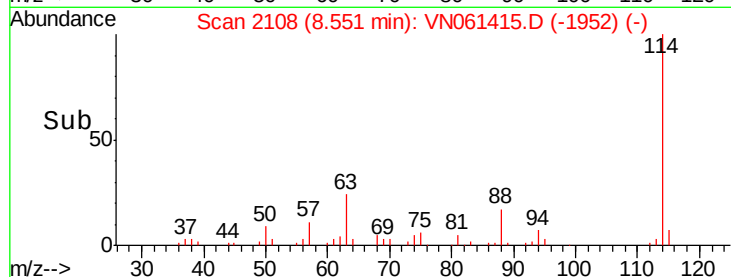
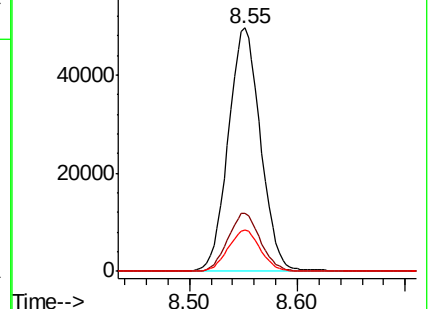
88 16.7 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): VN061393.D (-2092) (-)

Ion 63.00 (62.70 to 63.70): VN061393.D (-2092) (-)

Ion 88.00 (87.70 to 88.70): VN061393.D (-2092) (-)



#30

2-Butanone

Concen: 4.828 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

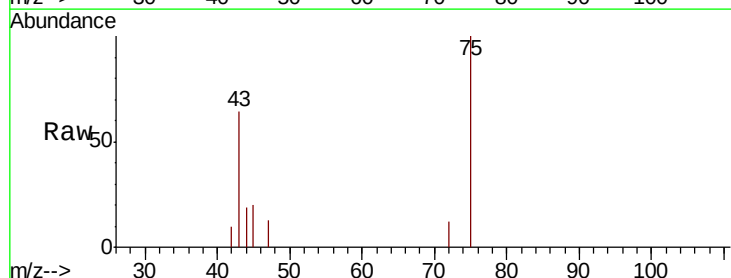
Tgt Ion: 43 Resp: 3708

Ion Ratio Lower Upper

43 100

57 0.0 6.5 9.7#

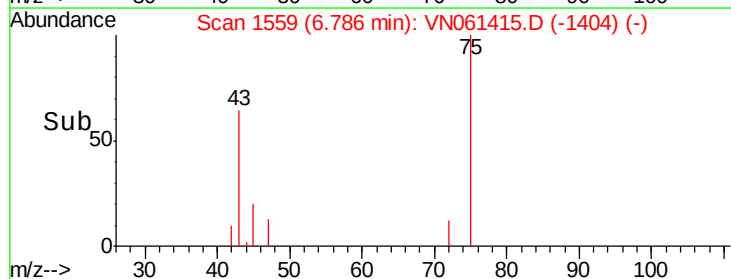
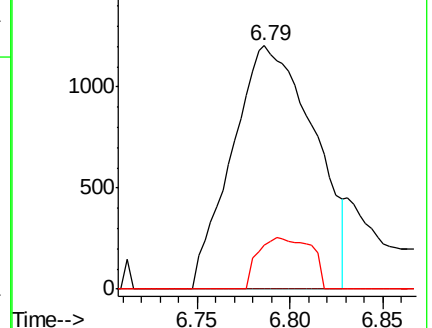
72 13.5 20.1 30.1#

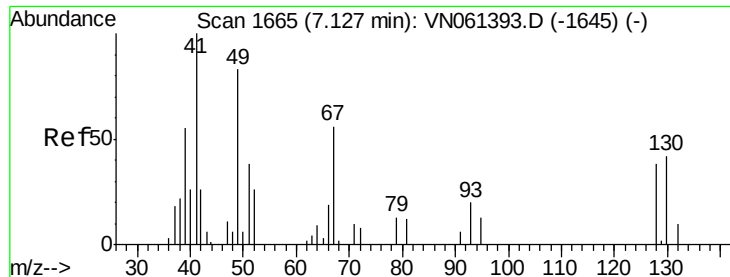


Abundance Ion 43.00 (42.70 to 43.70): VN061393.D (-1536) (-)

Ion 57.00 (56.70 to 57.70): VN061393.D (-1536) (-)

Ion 72.00 (71.70 to 72.70): VN061393.D (-1536) (-)

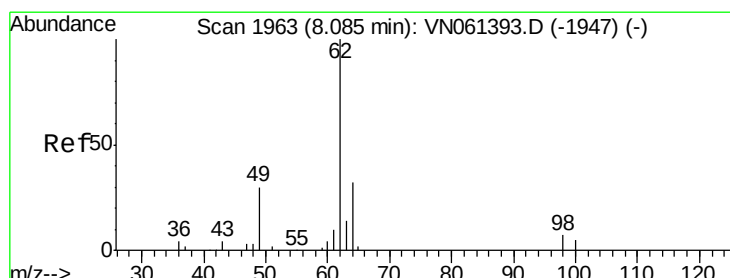
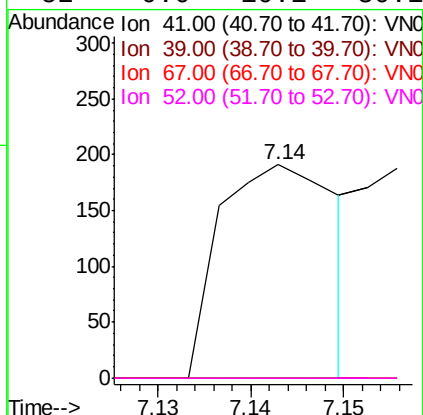
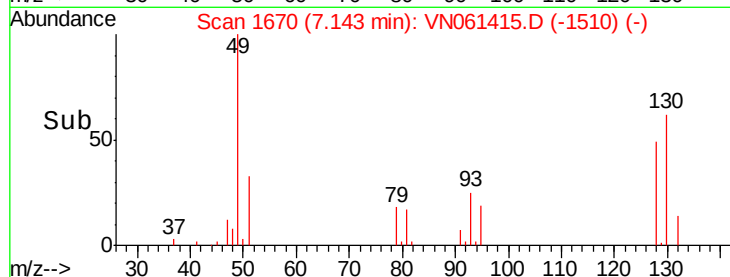
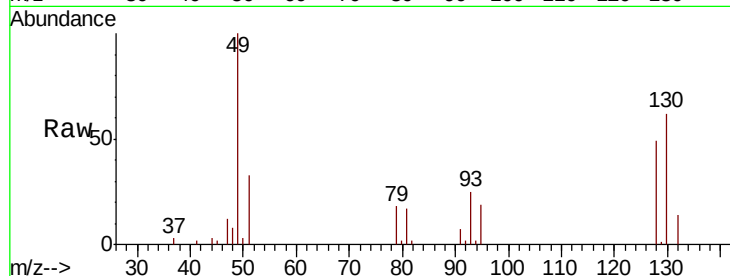




#35
Methacrylonitrile
Concen: 0.217 ug/l
RT: 7.14 min Scan# 1670
Delta R.T. 0.02 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

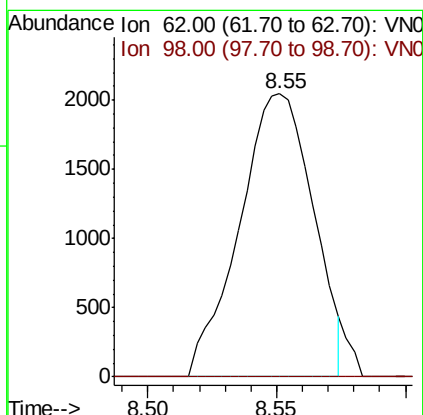
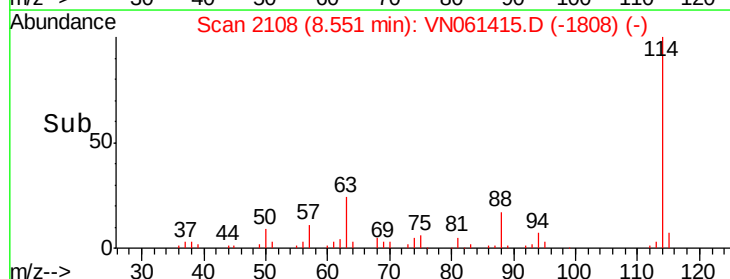
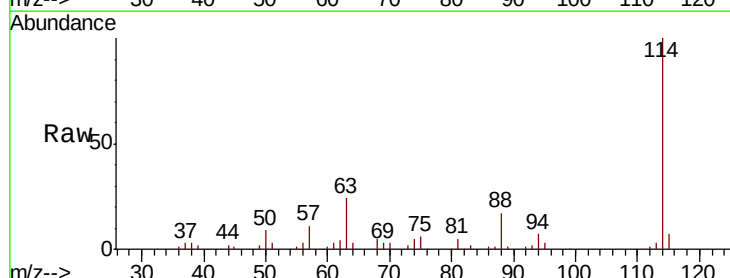
Instrument :
MSVOA_N
ClientSampleId :

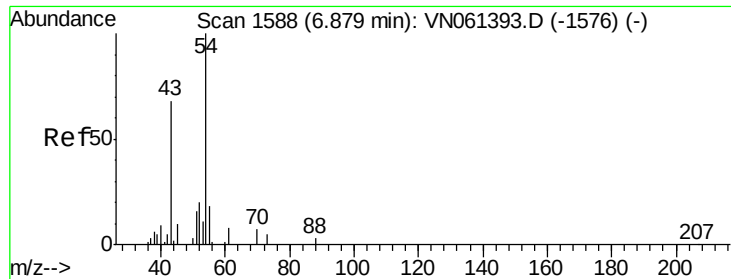
Tot Ion: 41 Resp: 167
Ion Ratio Lower Upper
41 100
39 0.0 25.8 77.4#
67 0.0 23.0 69.0#
52 0.0 10.1 30.1#



#36
1,2-Dichloroethane
Concen: 2.069 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.47 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion: 62 Resp: 4079
Ion Ratio Lower Upper
62 100
98 0.0 6.4 9.6#

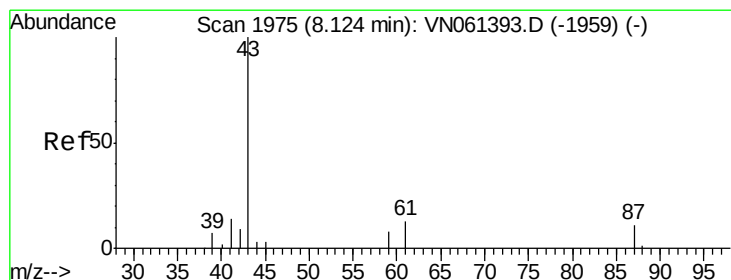
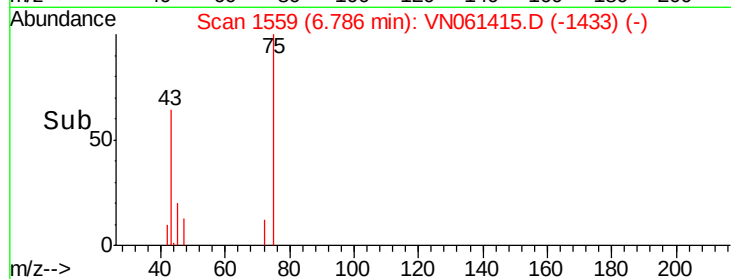
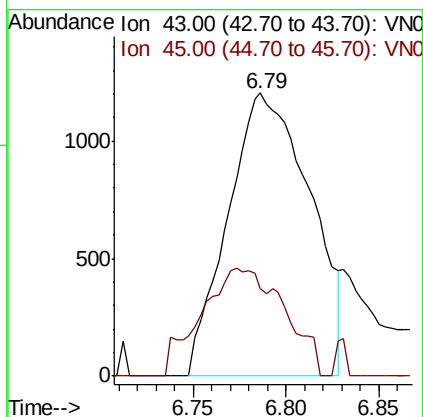
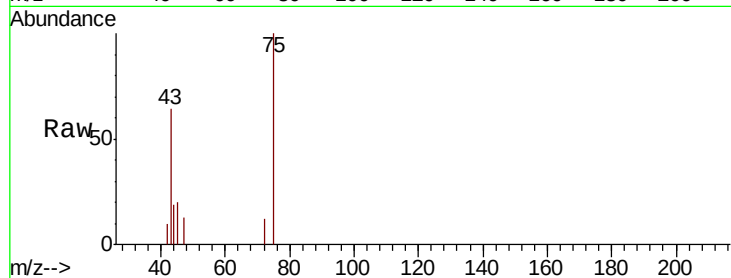




#43
Ethyl Acetate
Concen: 2.260 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.09 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

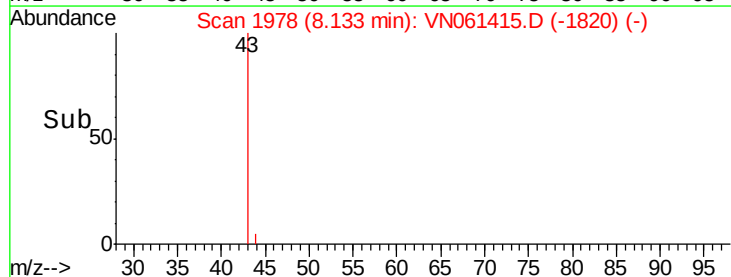
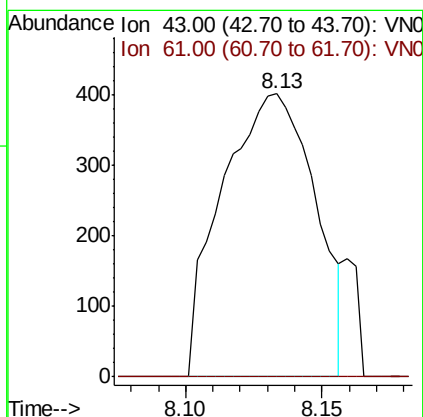
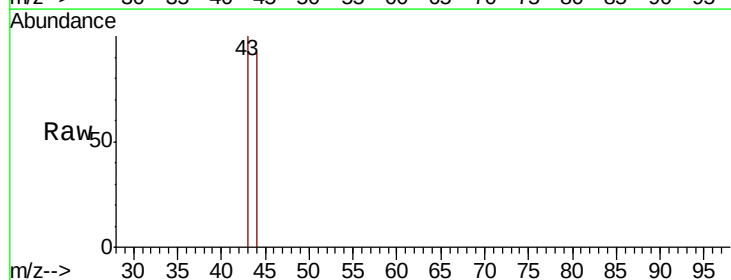
Instrument :
MSVOA_N
ClientSampled :

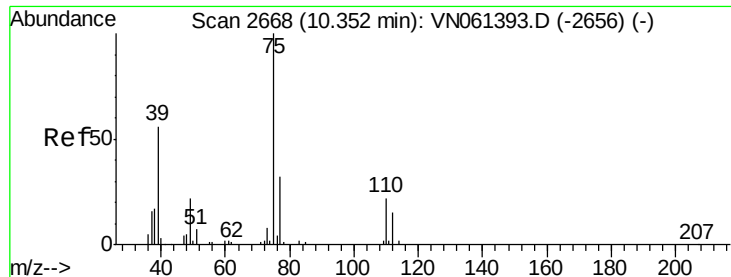
Tot Ion: 43 Resp: 3708
Ion Ratio Lower Upper
43 100
45 11.0 9.7 14.5



#44
Isopropyl Acetate
Concen: 0.299 ug/l
RT: 8.13 min Scan# 1978
Delta R.T. 0.01 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion: 43 Resp: 952
Ion Ratio Lower Upper
43 100
61 99.3 19.9 29.9#





#48

t-1,3-Dichloropropene

Concen: 0.804 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. -0.48 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

Instrument :

MSVOA_N

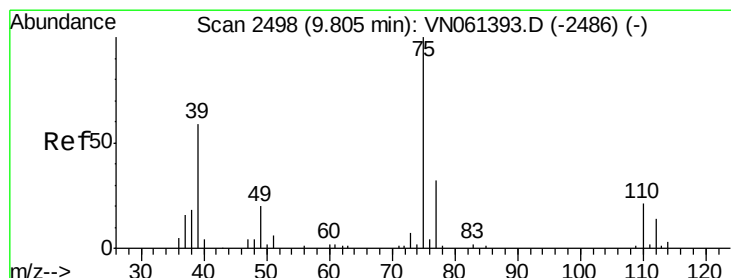
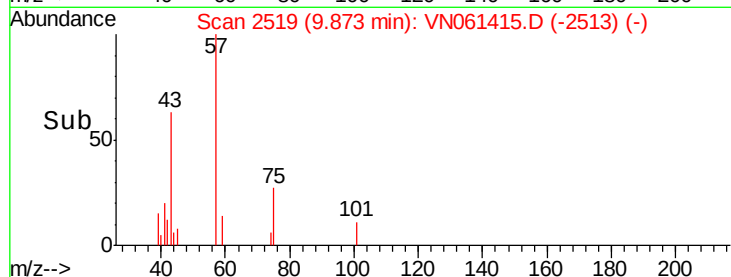
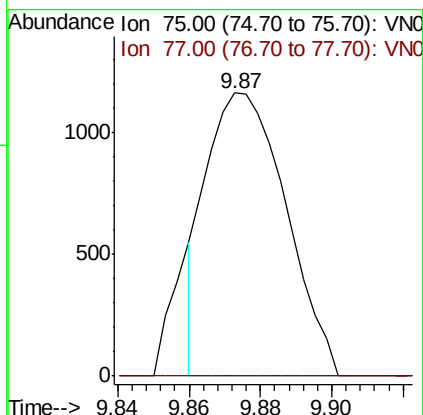
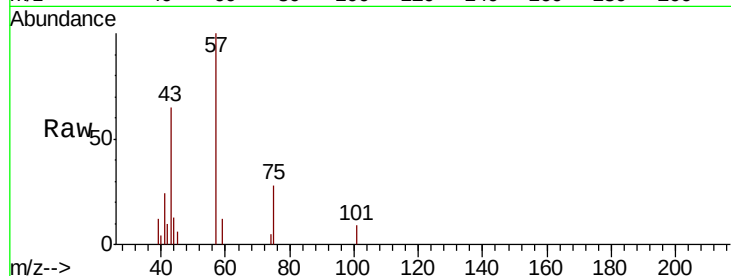
ClientSampled :

Tot Ion: 75 Resp: 1794

Ion Ratio Lower Upper

75 100

77 0.0 27.0 40.4#



#49

cis-1,3-Dichloropropene

Concen: 0.857 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.07 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

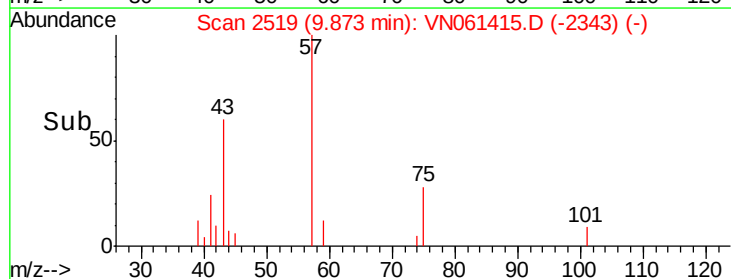
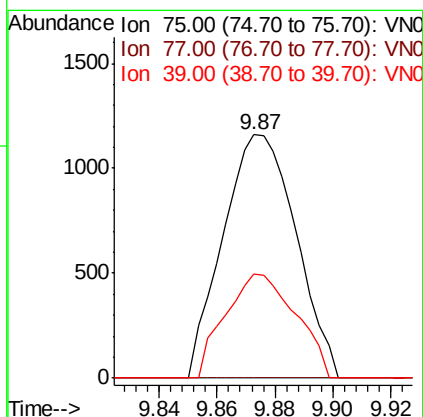
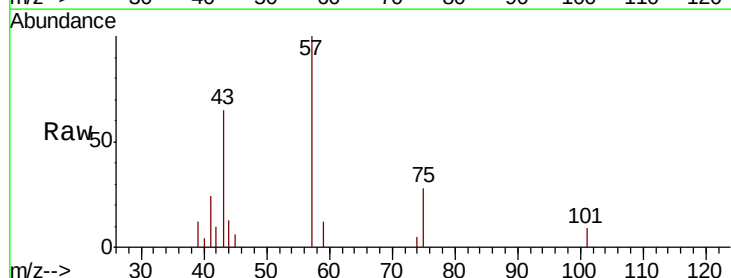
Tgt Ion: 75 Resp: 2023

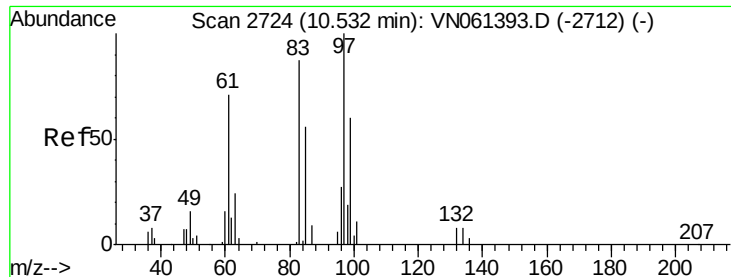
Ion Ratio Lower Upper

75 100

77 0.0 26.1 39.1#

39 42.5 43.1 64.7#

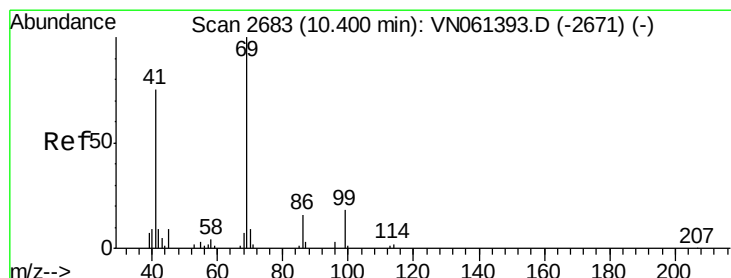
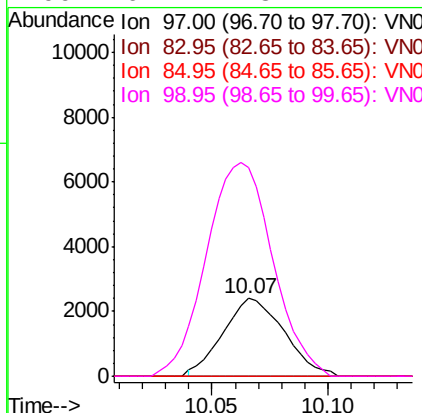
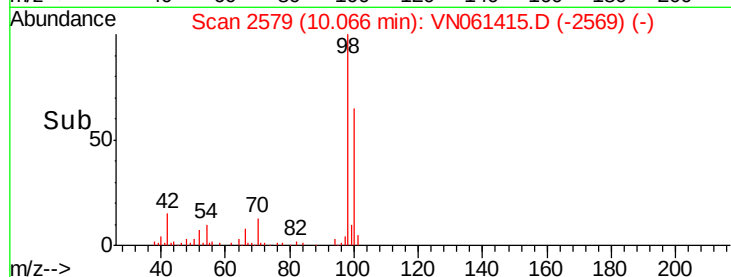
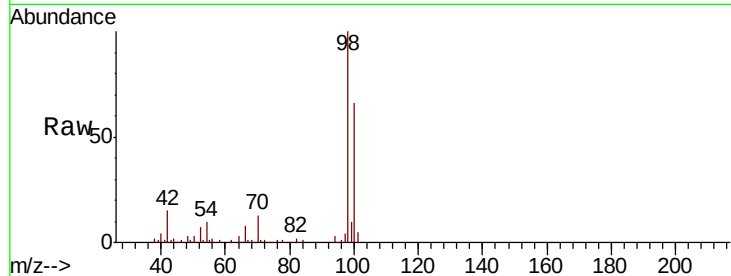




#50
 1,1,2-Trichloroethane
 Concen: 3.626 ug/l
 RT: 10.07 min Scan# 2579
 Delta R.T. -0.47 min
 Lab File: VN061415.D
 Acq: 15 May 2020 17:58

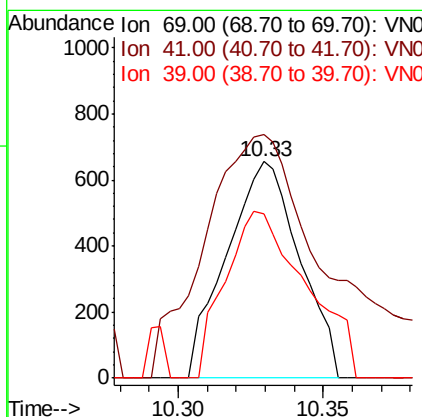
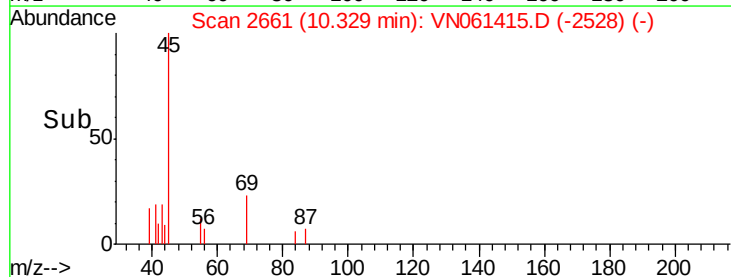
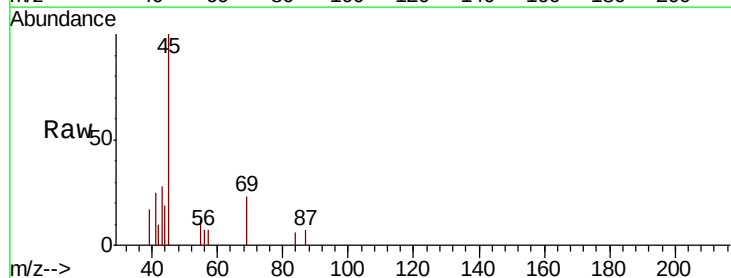
Instrument :
 MSVOA_N
 ClientSampleId :

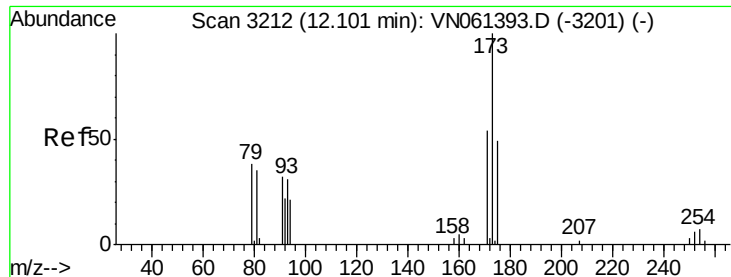
Tot Ion: 97 Resp: 4373
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.7 106.1#
 85 0.0 45.1 67.7#
 99 267.4 48.2 72.4#



#51
 Ethyl methacrylate
 Concen: 0.551 ug/l
 RT: 10.33 min Scan# 2661
 Delta R.T. -0.07 min
 Lab File: VN061415.D
 Acq: 15 May 2020 17:58

Tgt Ion: 69 Resp: 1144
 Ion Ratio Lower Upper
 69 100
 41 74.1 34.7 104.1
 39 75.8 20.3 60.8#

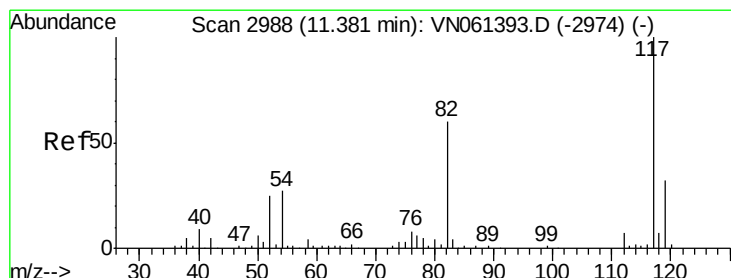
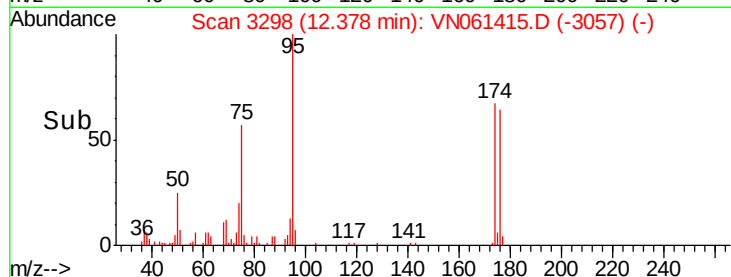
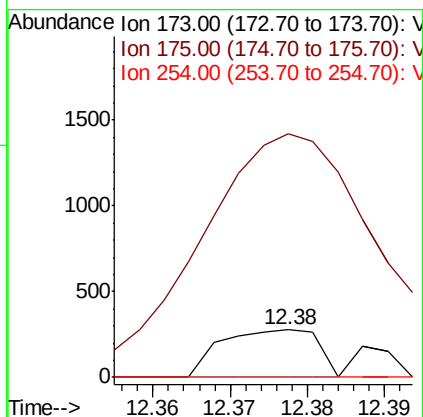
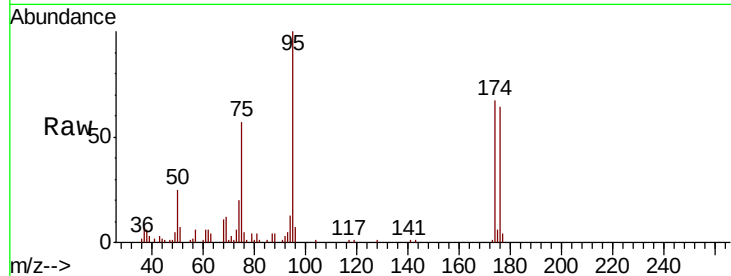




#56
Bromoform
Concen: 0.290 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

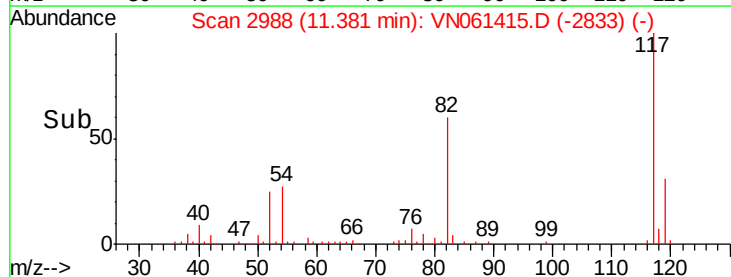
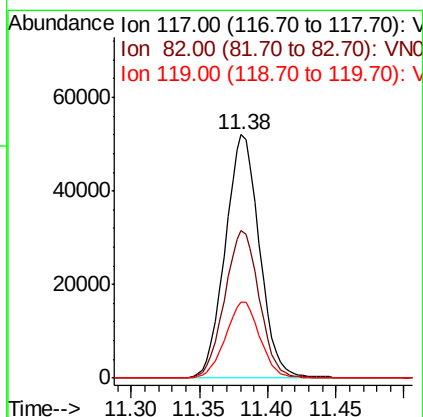
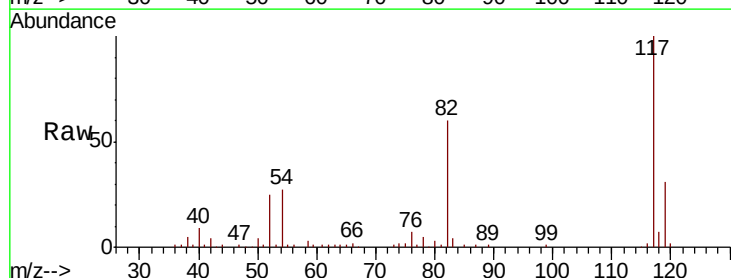
Instrument :
MSVOA_N
ClientSampleId :

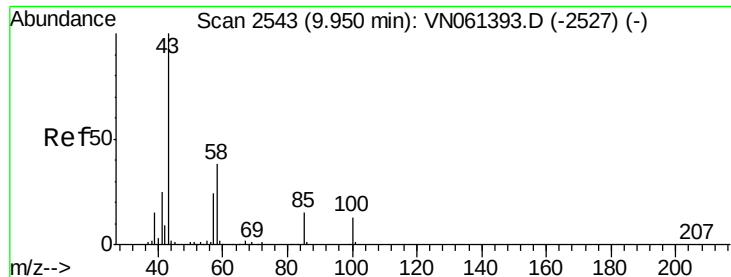
Tot Ion:173 Resp: 241
Ion Ratio Lower Upper
173 100
175 933.2 38.7 58.1#
254 0.0 7.4 11.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion:117 Resp: 90706
Ion Ratio Lower Upper
117 100
82 61.1 46.9 70.3
119 31.4 25.8 38.6

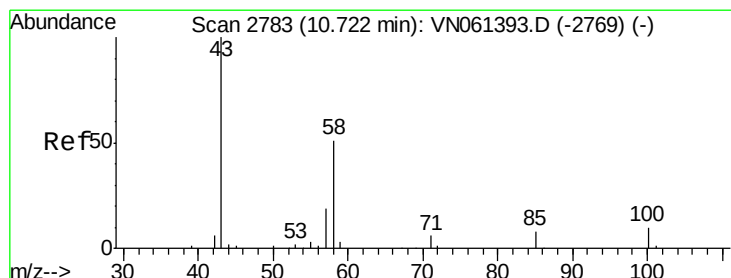
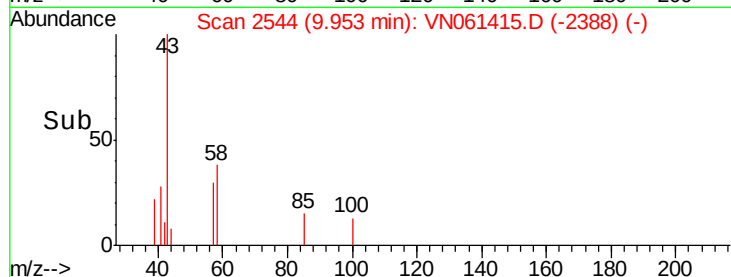
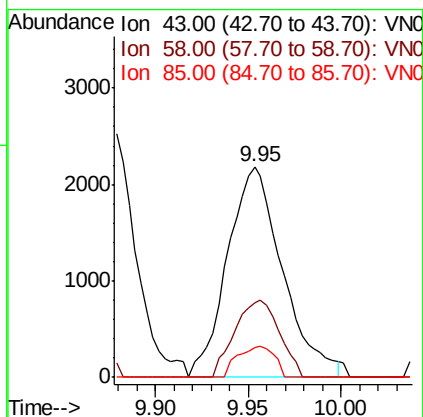
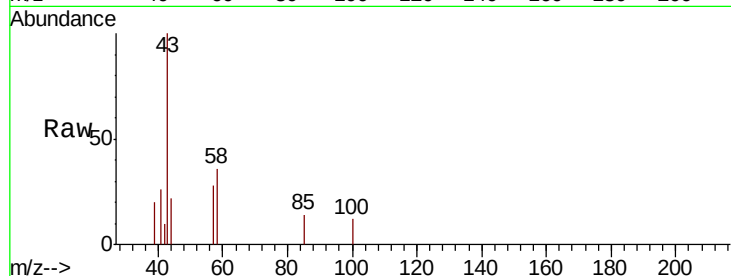




#58
4-Methyl-2-Pentanone
Concen: 2.719 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

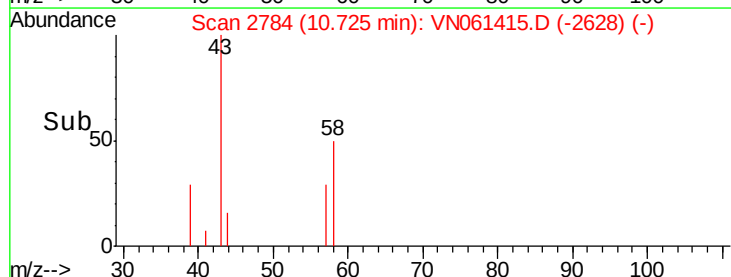
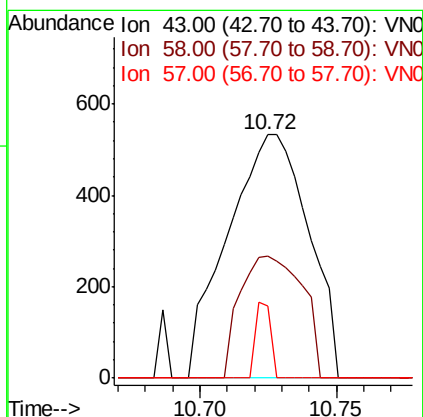
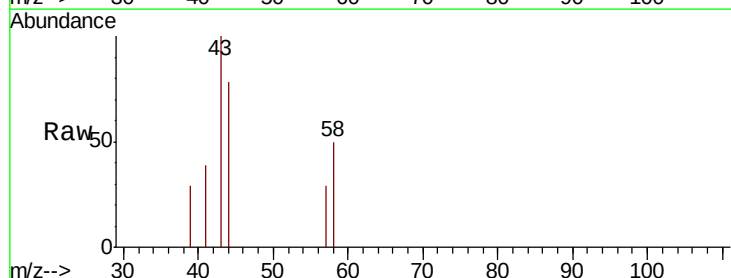
Instrument :
MSVOA_N
ClientSampleId :

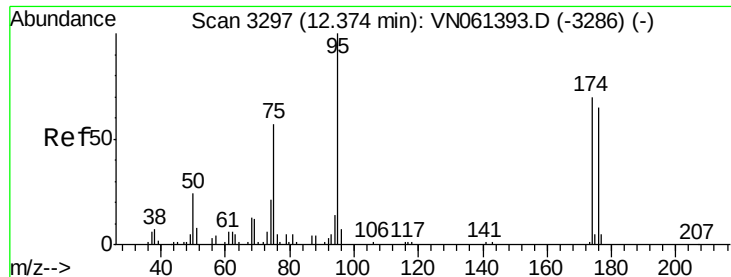
Tot Ion: 43 Resp: 4495
Ion Ratio Lower Upper
43 100
58 29.8 30.1 45.1#
85 9.8 13.2 19.8#



#59
2-Hexanone
Concen: 0.939 ug/l
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion: 43 Resp: 1098
Ion Ratio Lower Upper
43 100
58 38.7 41.4 62.0#
57 5.7 14.7 22.1#

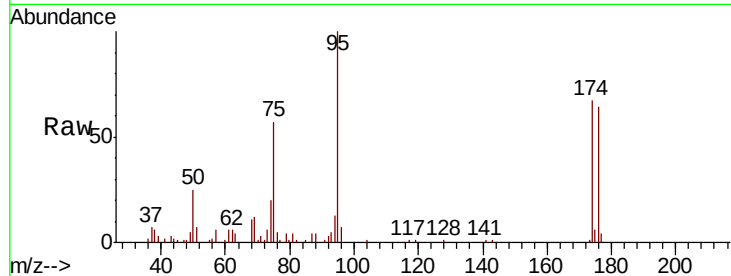




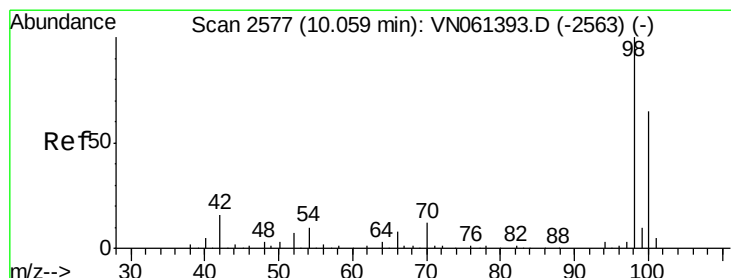
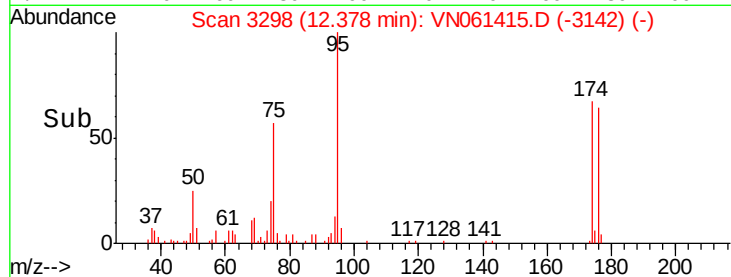
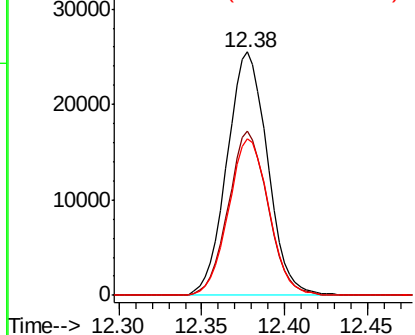
#60
4-Bromofluorobenzene
Concen: 28.022 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 43394
Ion Ratio Lower Upper
95 100
174 66.0 59.9 89.9
176 64.0 58.3 87.5

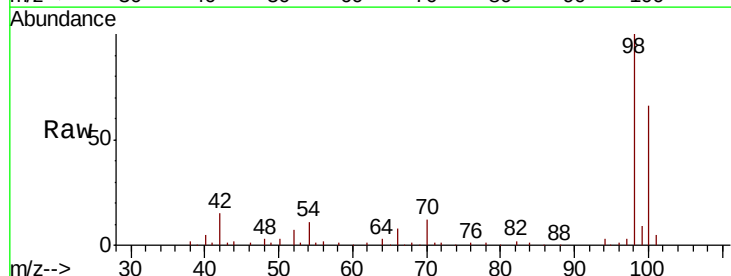


Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

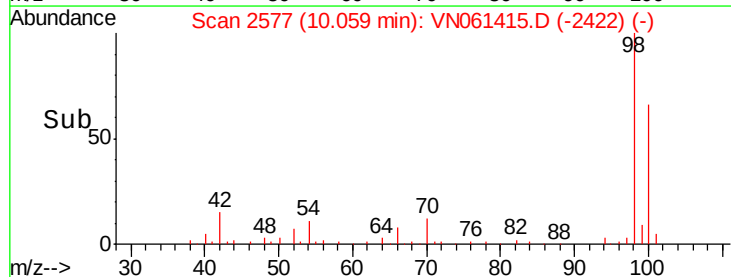
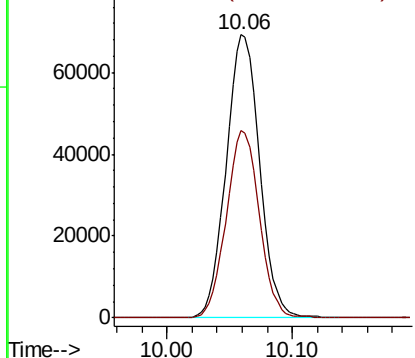


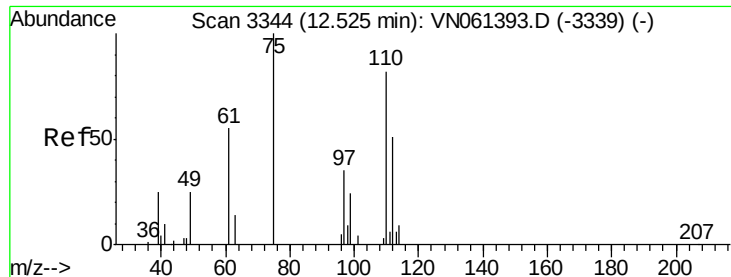
#63
Toluene-d8
Concen: 30.515 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061415.D
Acq: 15 May 2020 17:58

Tgt Ion: 98 Resp: 128156
Ion Ratio Lower Upper
98 100
100 65.4 50.6 75.8



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





#72

1,2,3-Trichloropropane

Concen: 16.317 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

Instrument :

MSVOA_N

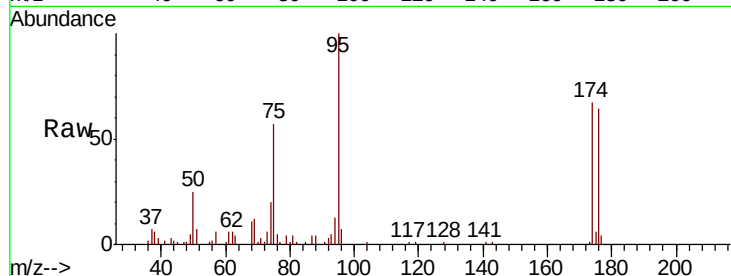
ClientSampled :

Tot Ion: 75 Resp: 24780

Ion Ratio Lower Upper

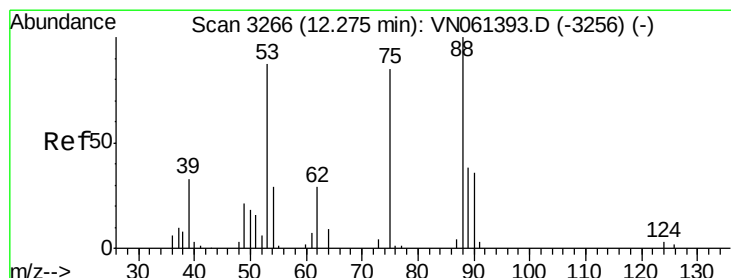
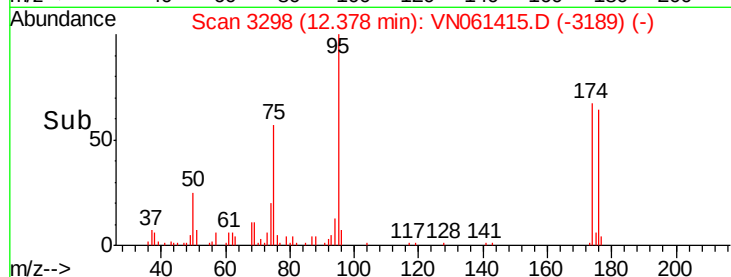
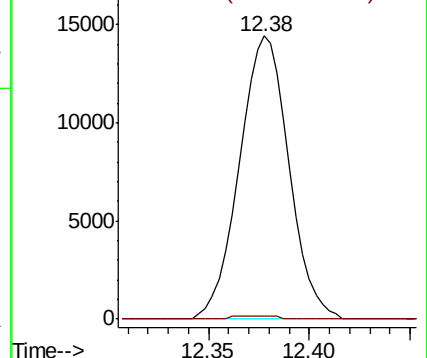
75 100

77 0.7 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 2.221 ug/l

RT: 12.21 min Scan# 3247

Delta R.T. -0.06 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

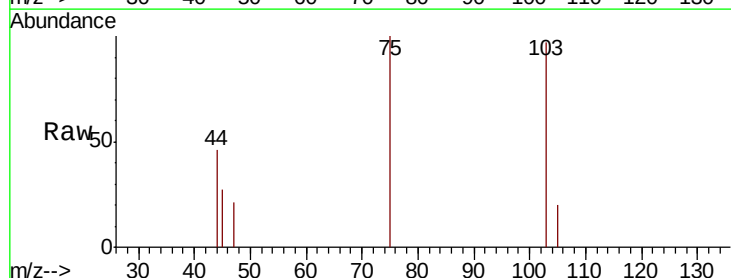
Tgt Ion: 75 Resp: 1404

Ion Ratio Lower Upper

75 100

53 0.0 50.0 150.0#

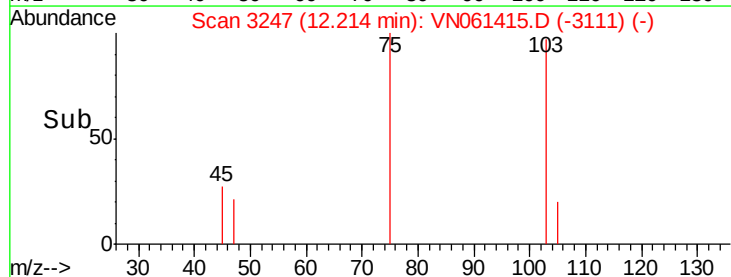
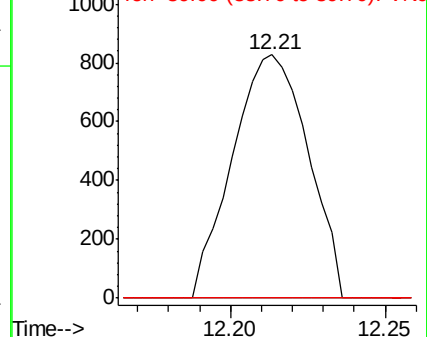
89 0.0 20.7 62.1#

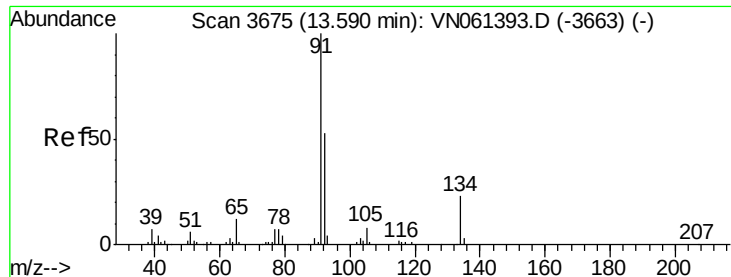


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0





#85

n-Butylbenzene

Concen: 0.300 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. -0.00 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

Instrument :

MSVOA_N

ClientSampled :

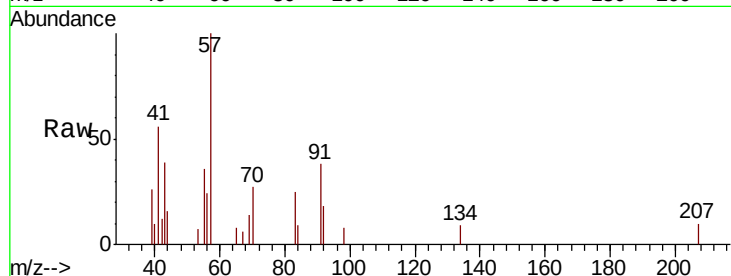
Tot Ion: 91 Resp: 1383

Ion Ratio Lower Upper

91 100

92 46.9 0.0 102.8

134 17.0 0.0 48.6

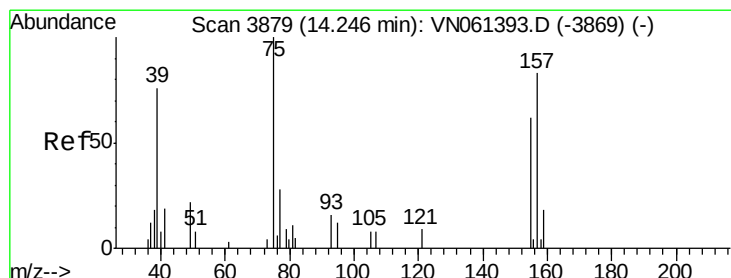
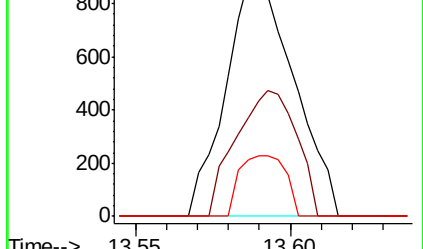
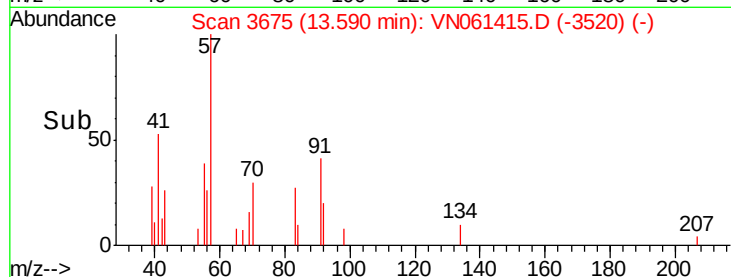


Abundance Ion 91.00 (90.70 to 91.70): VN061393.D (-3663) (-)

Ion 92.00 (91.70 to 92.70): VN061393.D (-3663) (-)

Ion 134.00 (133.70 to 134.70): VN061393.D (-3663) (-)

Time--> 13.55 13.60



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.827 ug/l

RT: 13.90 min Scan# 3773

Delta R.T. -0.34 min

Lab File: VN061415.D

Acq: 15 May 2020 17:58

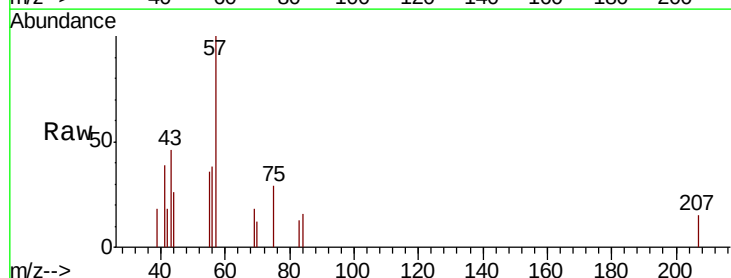
Tgt Ion: 75 Resp: 620

Ion Ratio Lower Upper

75 100

155 0.0 58.3 87.5#

157 0.0 75.0 112.6#

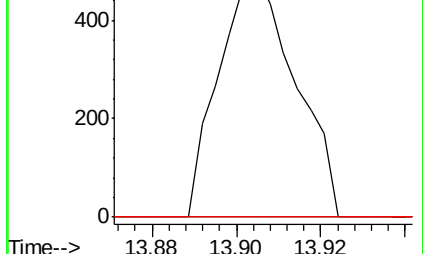
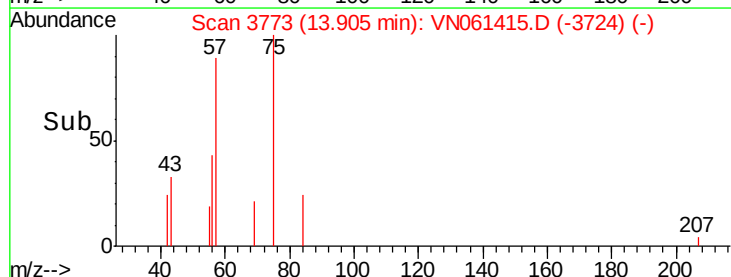


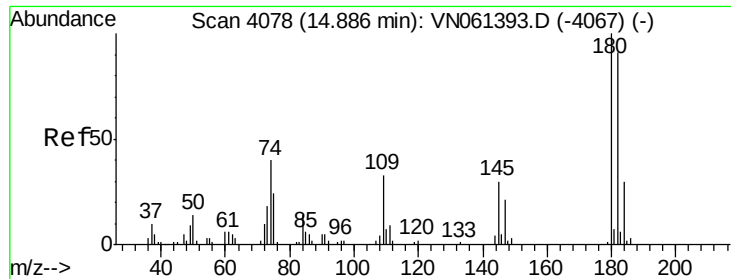
Abundance Ion 75.00 (74.70 to 75.70): VN061393.D (-3869) (-)

Ion 155.00 (154.70 to 155.70): VN061393.D (-3869) (-)

Ion 157.00 (156.70 to 157.70): VN061393.D (-3869) (-)

Time--> 13.88 13.90 13.92

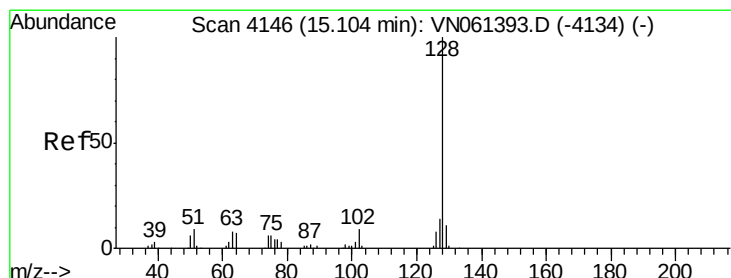
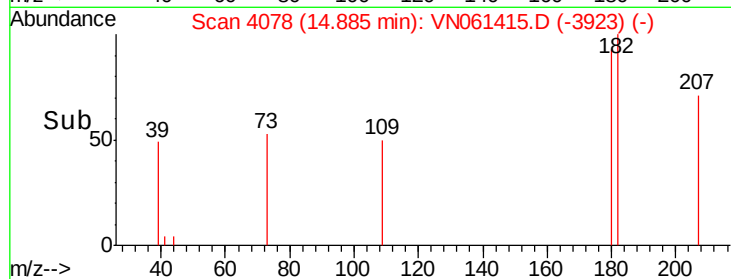
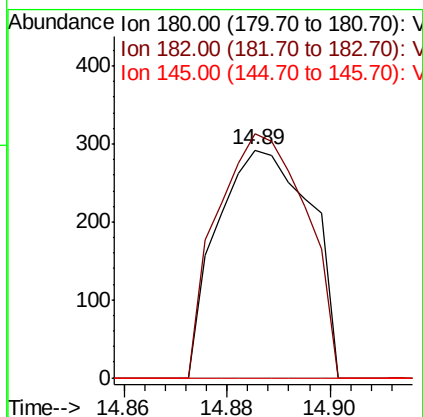
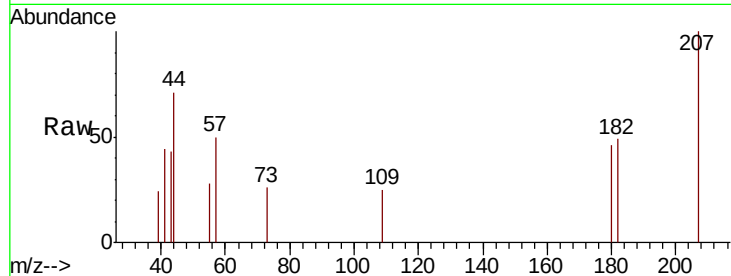




#89
 1,2,4-Trichlorobenzene
 Concen: 0.302 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. -0.00 min
 Lab File: VN061415.D
 Acq: 15 May 2020 17:58

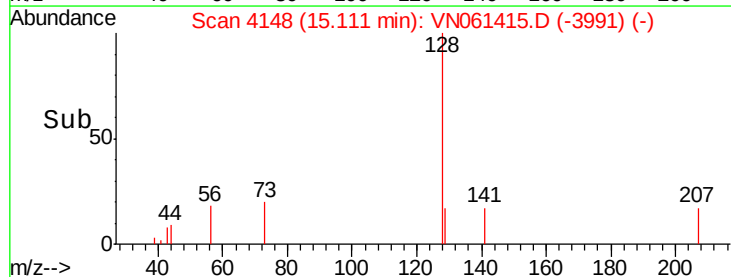
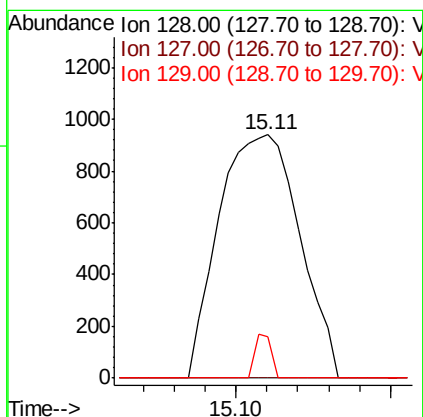
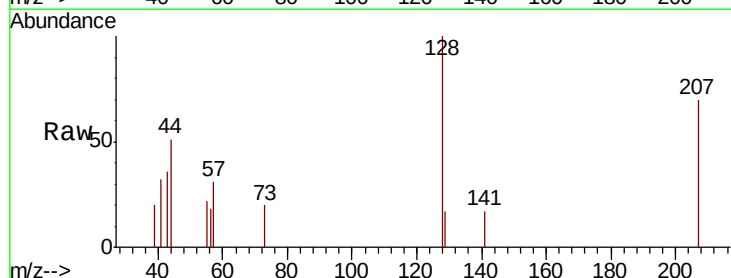
Instrument :
 MSVOA_N
 ClientSampled :

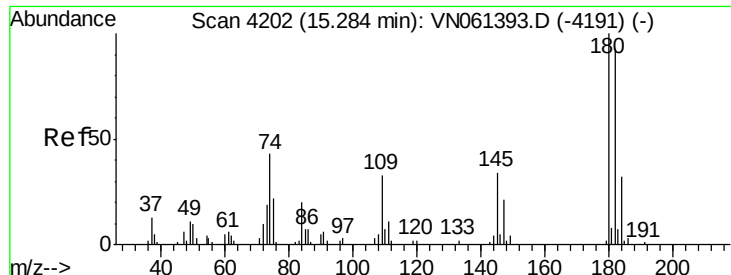
Tot Ion:180 Resp: 366
 Ion Ratio Lower Upper
 180 100
 182 102.5 75.3 112.9
 145 0.0 24.8 37.2#



#91
 Naphthalene
 Concen: 0.448 ug/l
 RT: 15.11 min Scan# 4148
 Delta R.T. 0.01 min
 Lab File: VN061415.D
 Acq: 15 May 2020 17:58

Tgt Ion:128 Resp: 1708
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 3.7 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.242 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. -0.00 min
 Lab File: VN061415.D
 Acq: 15 May 2020 17:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:	180	Resp:	285
Ion	Ratio	Lower	Upper
180	100		
182	89.1	0.0	193.4
145	0.0	0.0	65.8

