

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070052.D
 Acq On : 14 Dec 2021 00:59
 Operator : JC/MD
 Sample : M5007-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 14 07:30:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

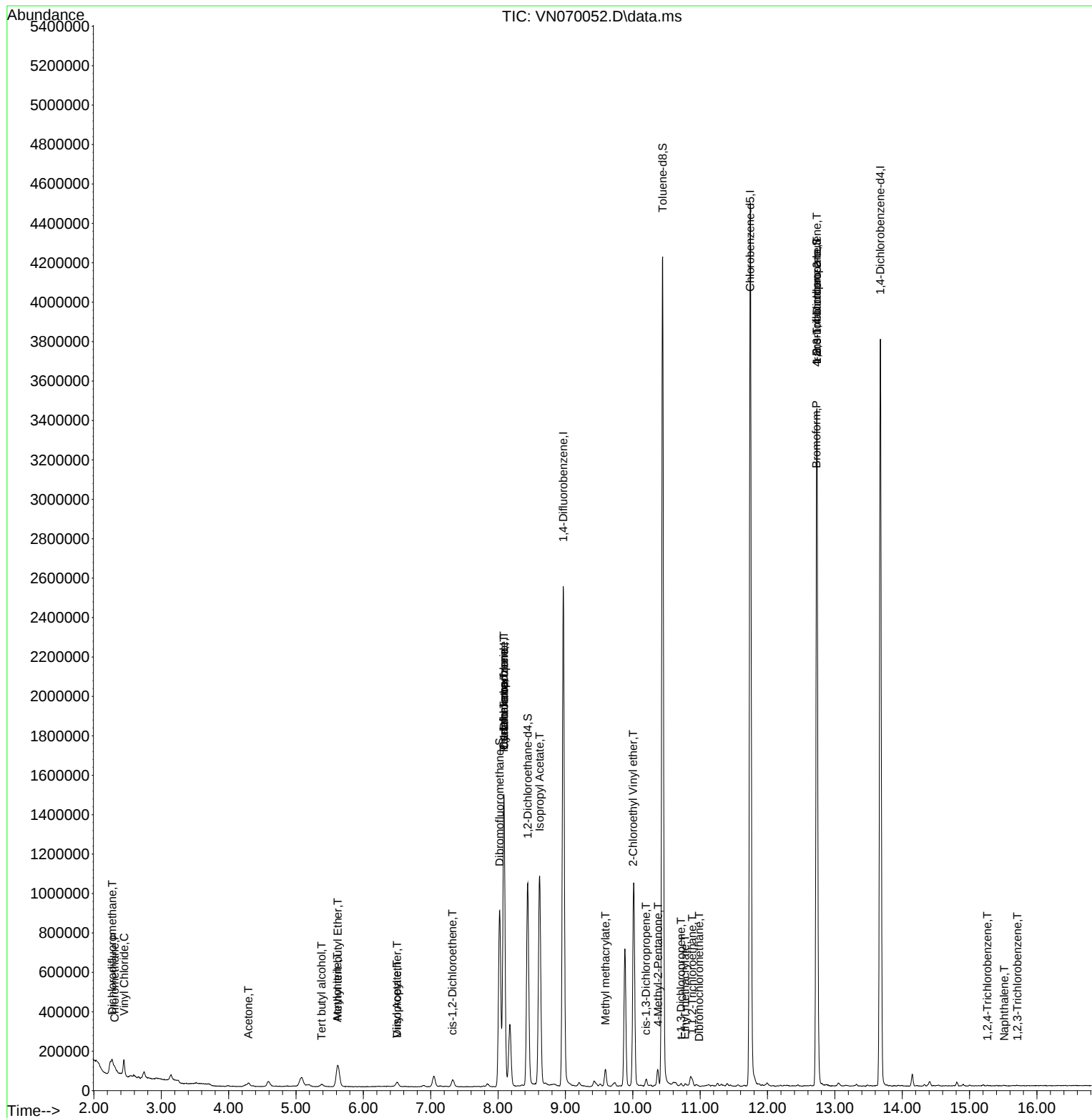
Internal Standards						
1) Pentafluorobenzene	8.088	168	1098068	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2123639	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2497328	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1005553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	898544	52.998	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	106.000%
35) Dibromofluoromethane	8.024	113	661419	49.723	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	99.440%
50) Toluene-d8	10.443	98	2851656	53.390	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	106.780%
62) 4-Bromofluorobenzene	12.731	95	1200976	62.066	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	124.140%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.271	85	3717	0.290	ug/l	100
3) Chloromethane	2.306	50	3519	0.219	ug/l	90
4) Vinyl Chloride	2.448	62	12368	0.838	ug/l #	87
11) Tert butyl alcohol	5.380	59	9184	2.866	ug/l #	71
15) Acrylonitrile	5.613	53	1774	0.205	ug/l #	26
16) Acetone	4.293	43	27453	2.692	ug/l	98
19) Methyl tert-butyl Ether	5.621	73	150567	3.702	ug/l #	91
22) Diisopropyl ether	6.501	45	28283	0.614	ug/l	91
23) Vinyl Acetate	6.498	43	16173	0.432	ug/l #	72
27) cis-1,2-Dichloroethene	7.324	96	14967	1.090	ug/l	100
31) Cyclohexane	8.086	56	30213	1.281	ug/l #	25
36) 1,1-Dichloropropene	8.086	75	92597	4.580	ug/l #	49
38) Carbon Tetrachloride	8.086	117	112532	5.676	ug/l #	16
43) Isopropyl Acetate	8.617	43	224633	5.045	ug/l #	55
48) Methyl methacrylate	9.593	41	25459	1.225	ug/l #	31
51) 4-Methyl-2-Pentanone	10.376	43	9289	0.322	ug/l #	58
53) t-1,3-Dichloropropene	10.714	75	91	2.798	ug/l #	43
54) cis-1,3-Dichloropropene	10.196	75	25	2.000	ug/l #	1
55) 1,1,2-Trichloroethane	10.880	97	7497	0.493	ug/l #	34
56) Ethyl methacrylate	10.776	69	257	2.288	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.006	63	2235	18.656	ug/l #	45
60) Dibromochloromethane	10.985	129	65	2.380	ug/l #	11
71) Bromoform	12.726	173	3911	2.973	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	671359	23.281	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	671359	74.069	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	732	2.920	ug/l #	40
95) Naphthalene	15.515	128	3732	4.055	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.711	180	1113	2.501	ug/l	68

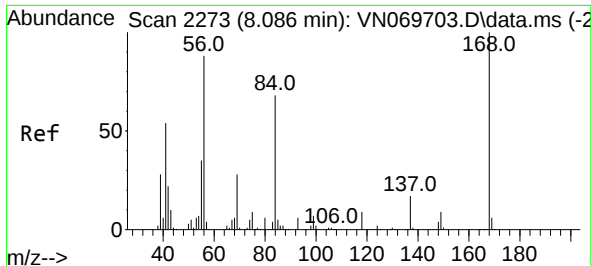
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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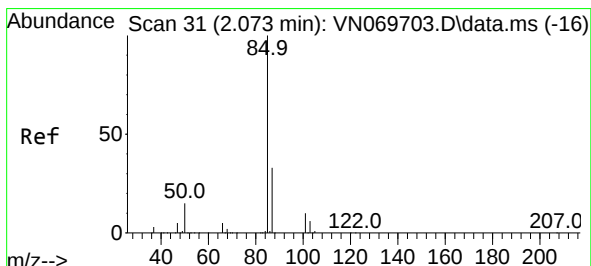
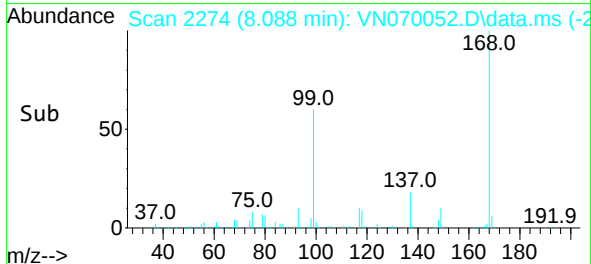
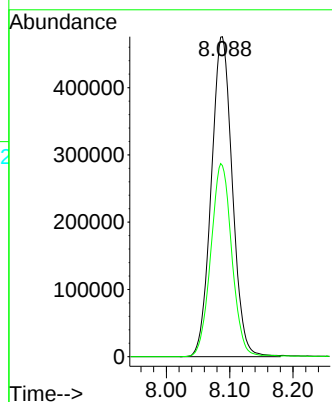
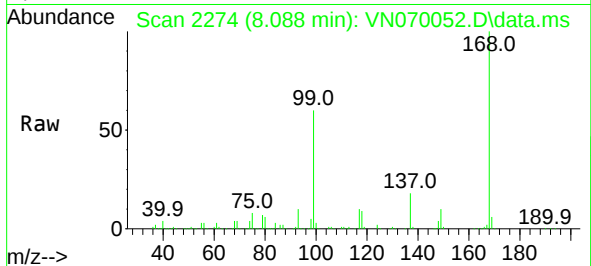




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

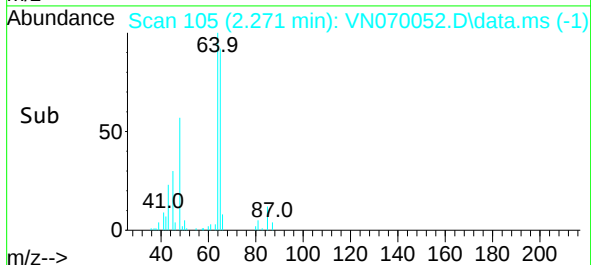
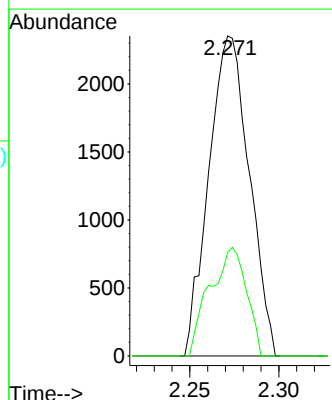
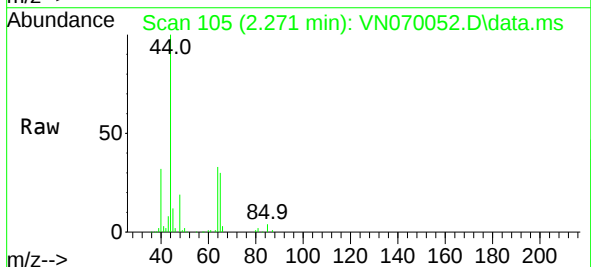
Instrument :
MSVOA_N
ClientSampleId :

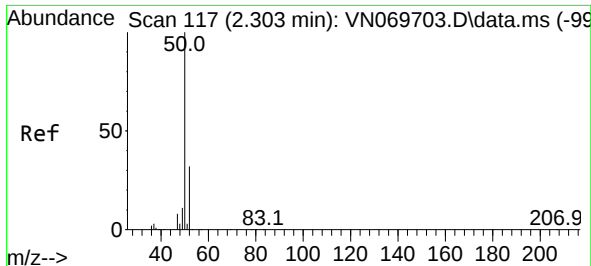
Tgt Ion:168 Resp: 1098068
Ion Ratio Lower Upper
168 100
99 59.7 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.290 ug/l
RT: 2.271 min Scan# 105
Delta R.T. 0.199 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 85 Resp: 3717
Ion Ratio Lower Upper
85 100
87 32.4 16.3 48.9

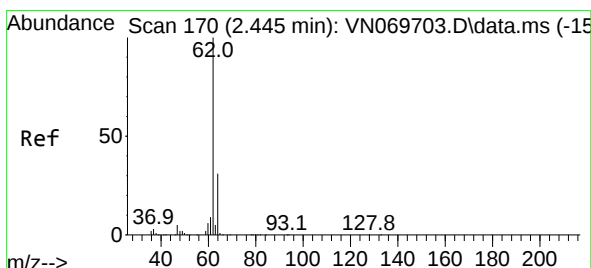
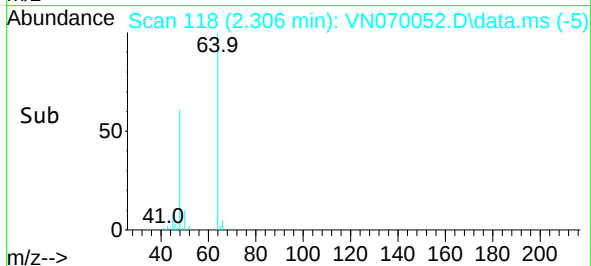
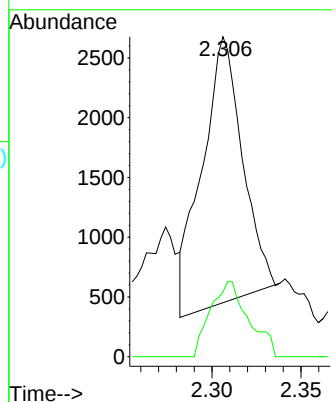
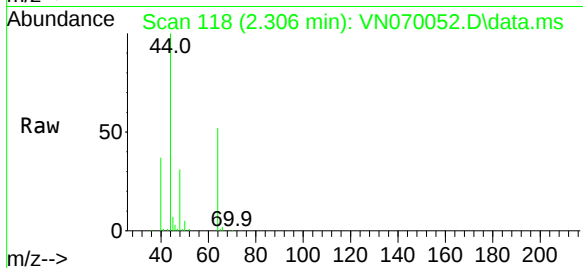




#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.306 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

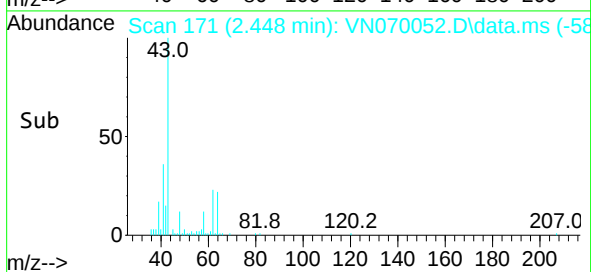
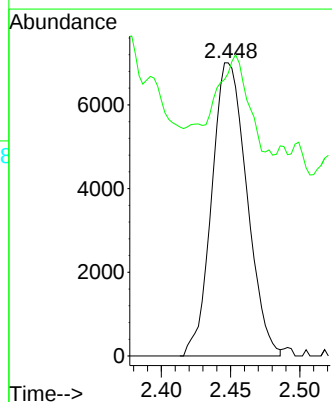
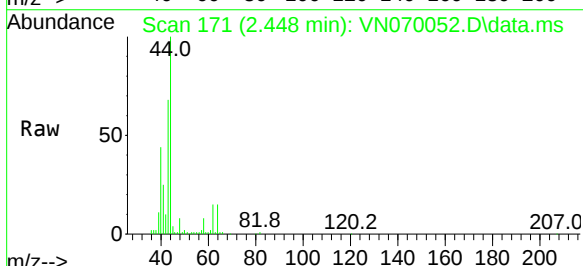
Instrument :
MSVOA_N
ClientSampleId :

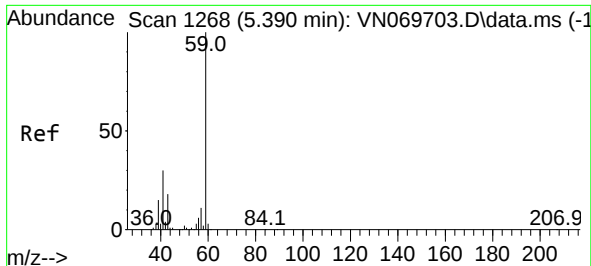
Tgt Ion: 50 Resp: 3519
Ion Ratio Lower Upper
50 100
52 26.2 25.4 38.0



#4
Vinyl Chloride
Concen: 0.838 ug/l
RT: 2.448 min Scan# 171
Delta R.T. 0.003 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

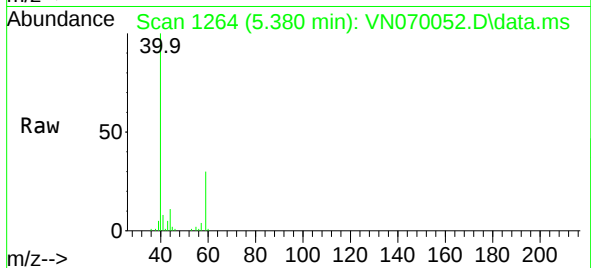
Tgt Ion: 62 Resp: 12368
Ion Ratio Lower Upper
62 100
64 24.8 25.8 38.6#



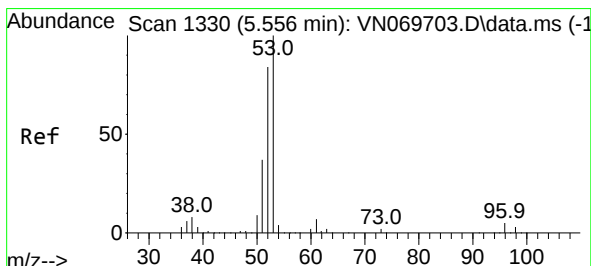
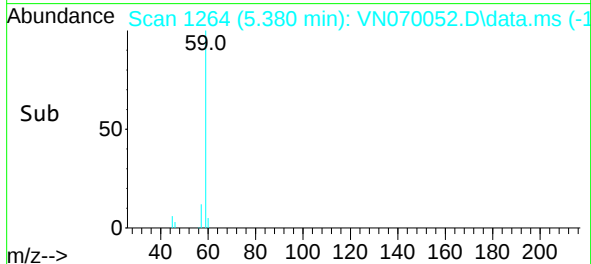
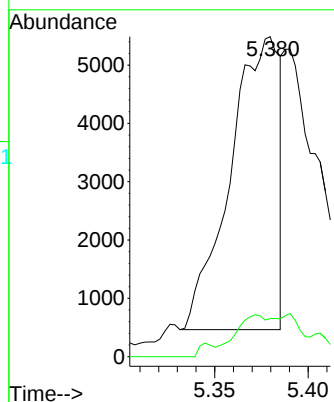


#11
Tert butyl alcohol
Concen: 2.866 ug/l
RT: 5.380 min Scan# 11
Delta R.T. -0.010 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Instrument :
MSVOA_N
ClientSampleId :

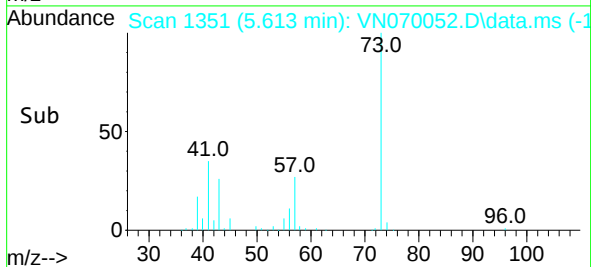
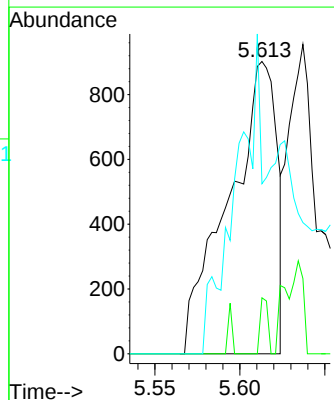
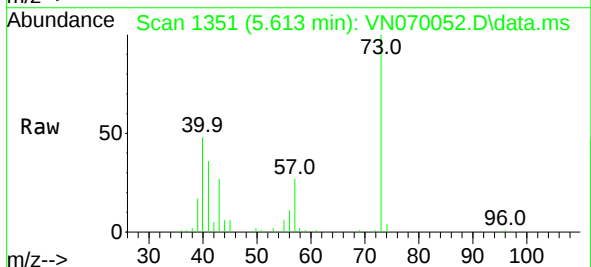


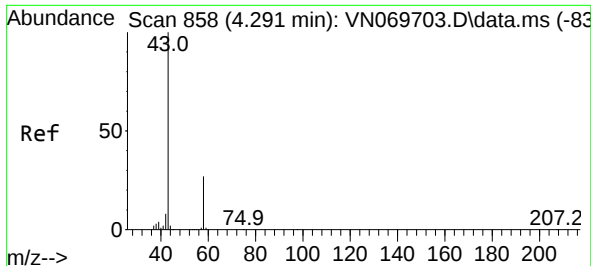
Tgt Ion: 59 Resp: 9184
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#15
Acrylonitrile
Concen: 0.205 ug/l
RT: 5.613 min Scan# 1351
Delta R.T. 0.057 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 53 Resp: 1774
Ion Ratio Lower Upper
53 100
52 3.0 66.2 99.2#
51 61.3 29.6 44.4#

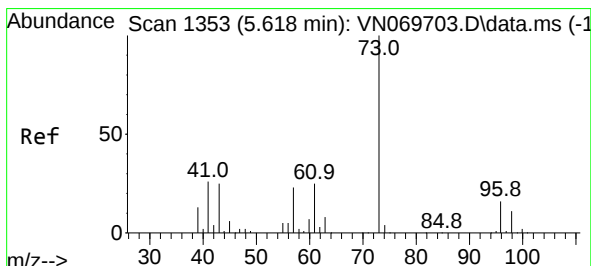
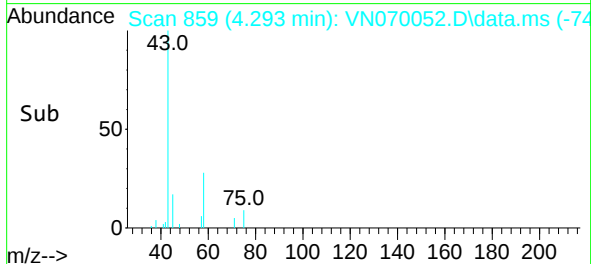
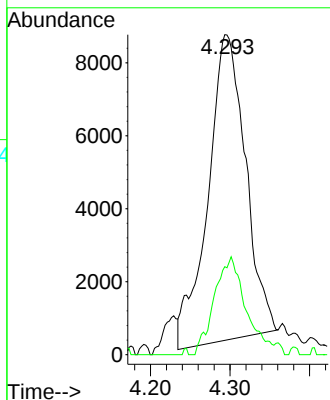
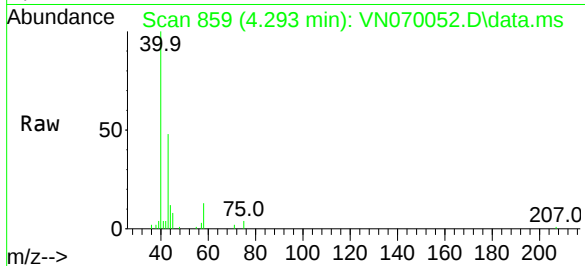




#16
Acetone
Concen: 2.692 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

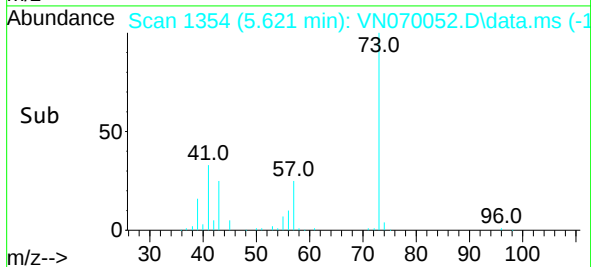
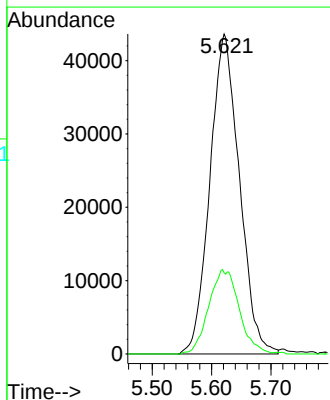
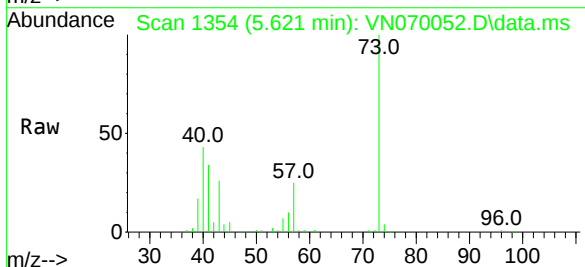
Instrument :
MSVOA_N
ClientSampleId :

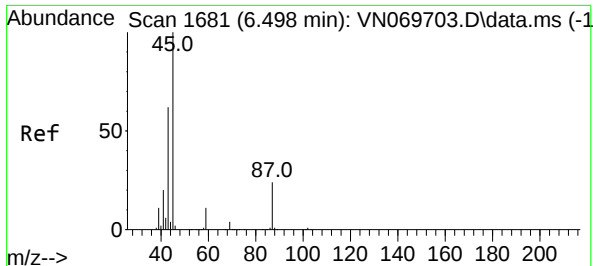
Tgt Ion: 43 Resp: 27453
Ion Ratio Lower Upper
43 100
58 29.8 23.1 34.7



#19
Methyl tert-butyl Ether
Concen: 3.702 ug/l
RT: 5.621 min Scan# 1354
Delta R.T. 0.003 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 73 Resp: 150567
Ion Ratio Lower Upper
73 100
57 25.3 16.8 25.2#





#22

Diisopropyl ether

Concen: 0.614 ug/l

RT: 6.501 min Scan# 1

Delta R.T. 0.003 min

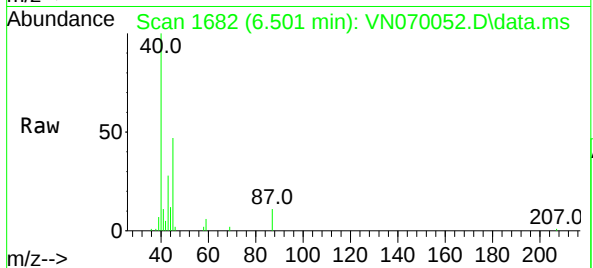
Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 45 Resp: 28283

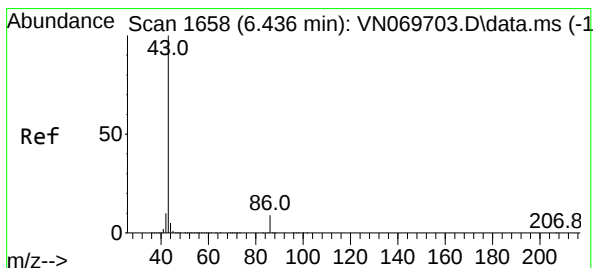
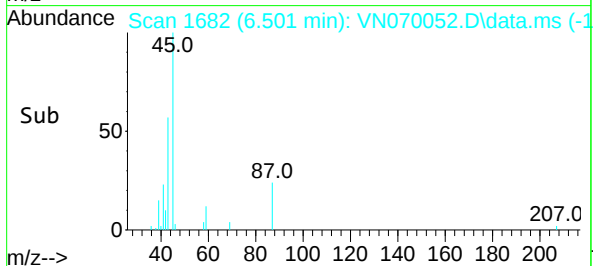
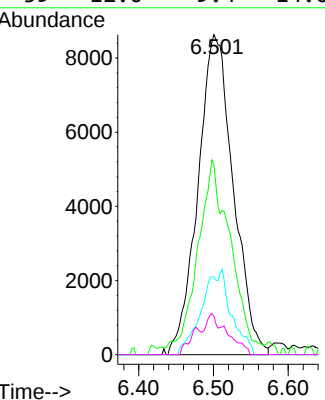
Ion Ratio Lower Upper

45 100

43 56.4 51.7 77.5

87 24.3 23.2 34.8

59 12.0 9.4 14.0



#23

Vinyl Acetate

Concen: 0.432 ug/l

RT: 6.498 min Scan# 1681

Delta R.T. 0.062 min

Lab File: VN070052.D

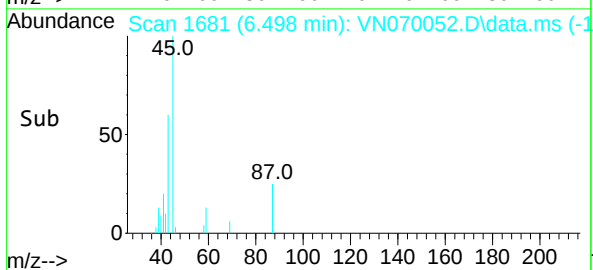
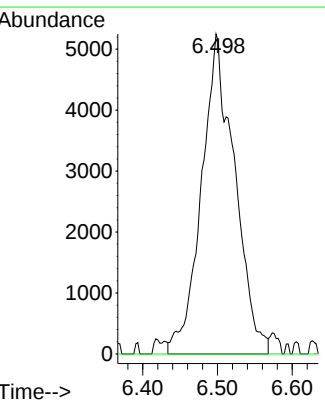
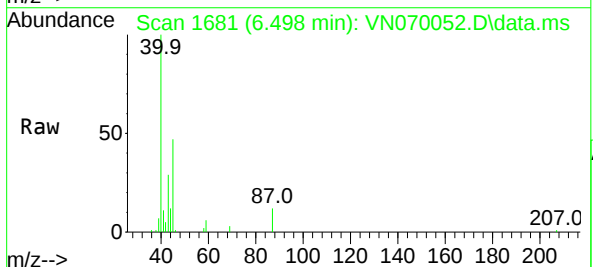
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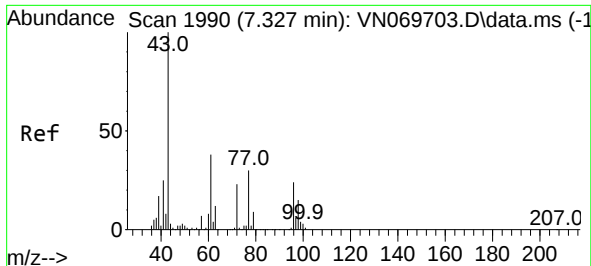
Tgt Ion: 43 Resp: 16173

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#





#27

cis-1,2-Dichloroethene

Concen: 1.090 ug/l

RT: 7.324 min Scan# 1990

Delta R.T. -0.002 min

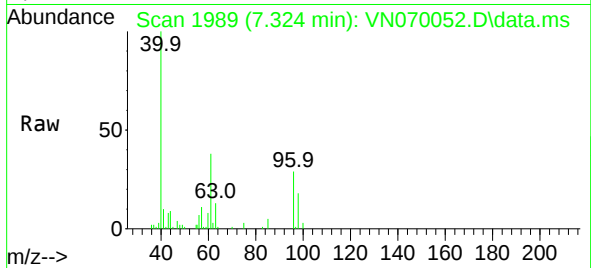
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Acq: 14 Dec 2021 00:59

Instrument :

MSVOA_N

ClientSampleId :



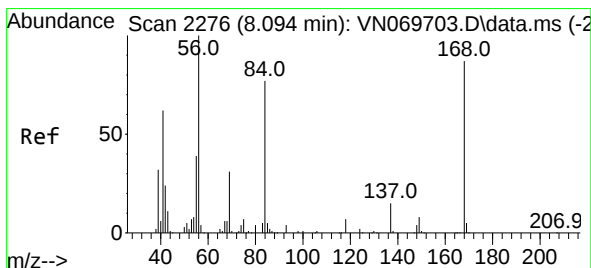
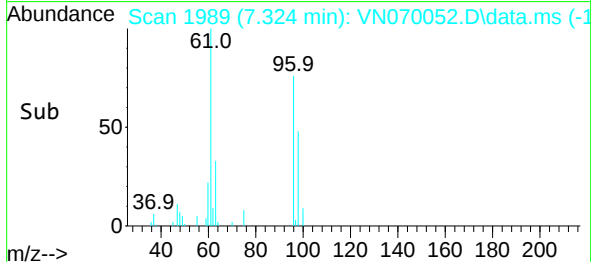
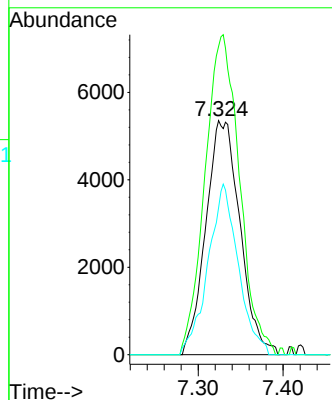
Tgt Ion: 96 Resp: 14967

Ion Ratio Lower Upper

96 100

61 137.7 0.0 275.0

98 64.4 0.0 129.6



#31

Cyclohexane

Concen: 1.281 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

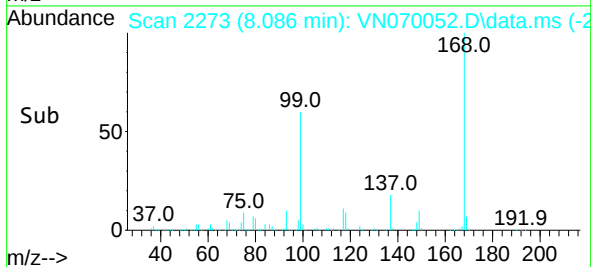
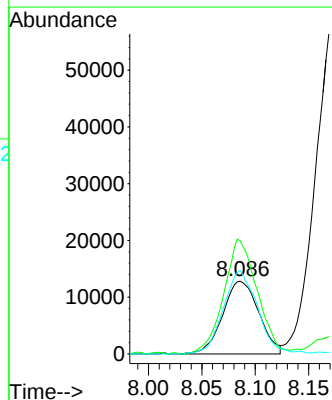
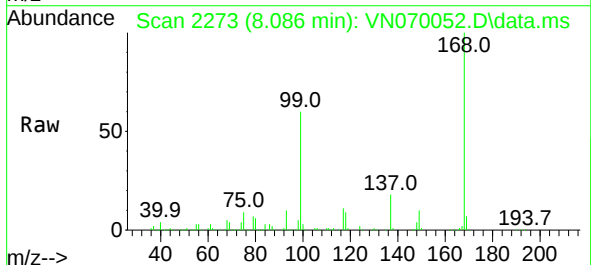
Tgt Ion: 56 Resp: 30213

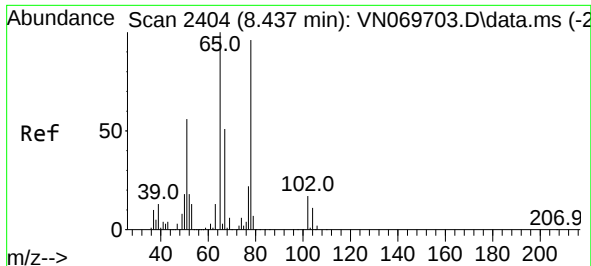
Ion Ratio Lower Upper

56 100

69 155.9 27.1 40.7#

84 114.4 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 52.998 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

Instrument :

MSVOA_N

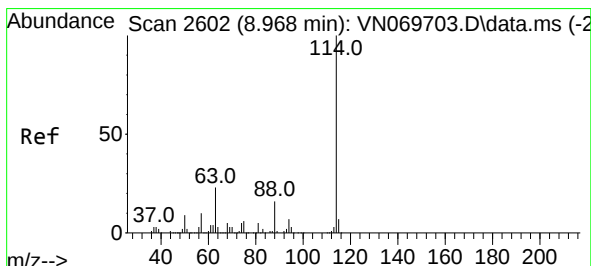
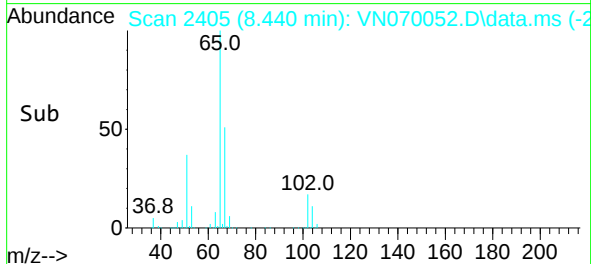
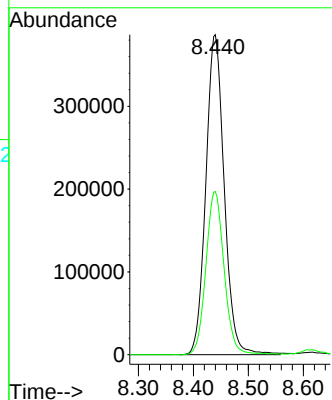
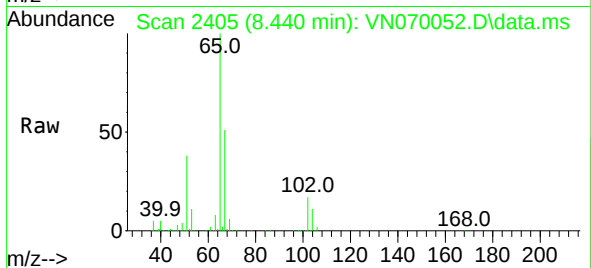
ClientSampleId :

Tgt Ion: 65 Resp: 898544

Ion Ratio Lower Upper

65 100

67 50.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

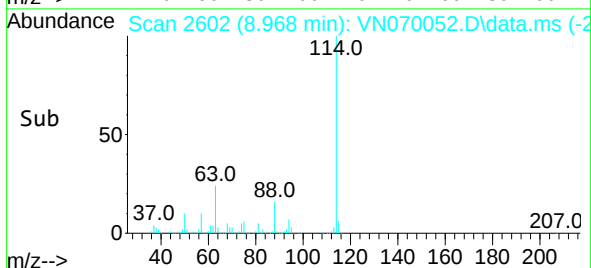
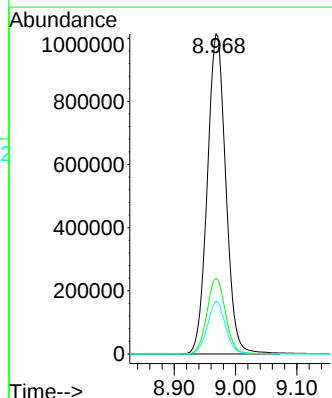
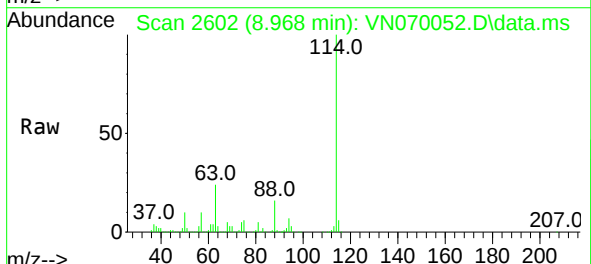
Tgt Ion: 114 Resp: 2123639

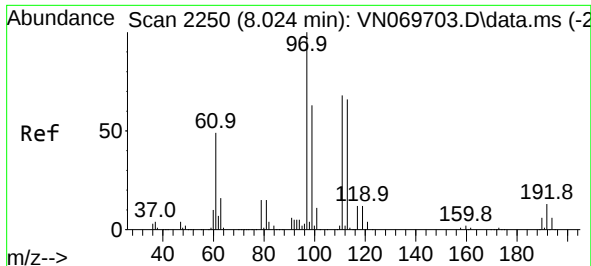
Ion Ratio Lower Upper

114 100

63 23.6 0.0 37.8

88 16.4 0.0 27.4





#35

Dibromofluoromethane

Concen: 49.723 ug/l

RT: 8.024 min Scan# 21

Delta R.T. 0.000 min

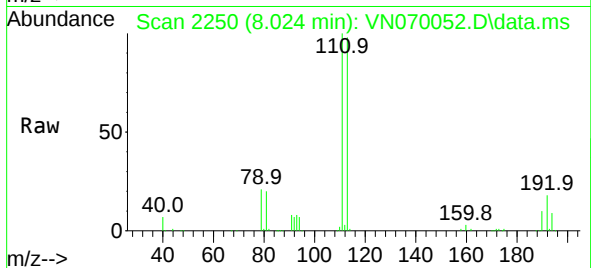
Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

Instrument :

MSVOA_N

ClientSampleId :



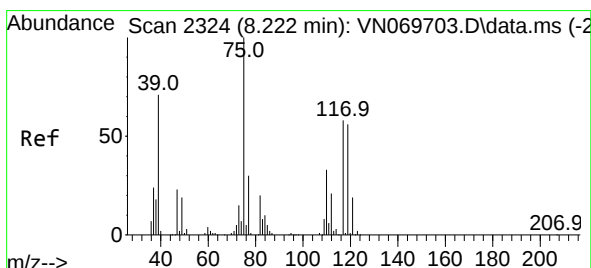
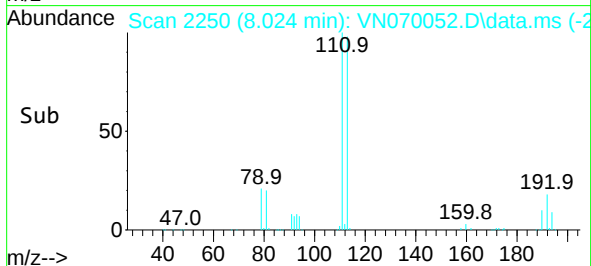
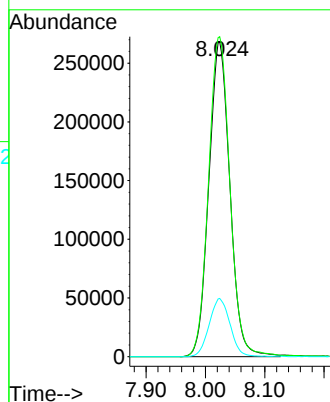
Tgt Ion:113 Resp: 661419

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 18.3 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.580 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.137 min

Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

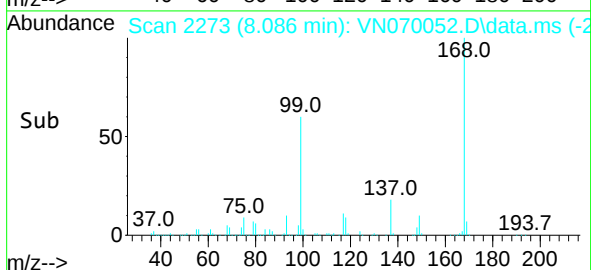
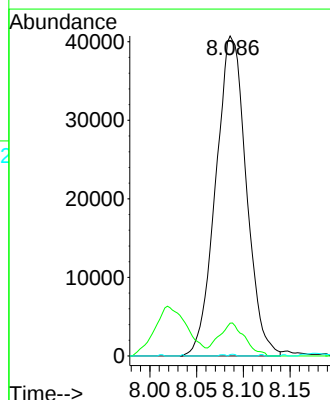
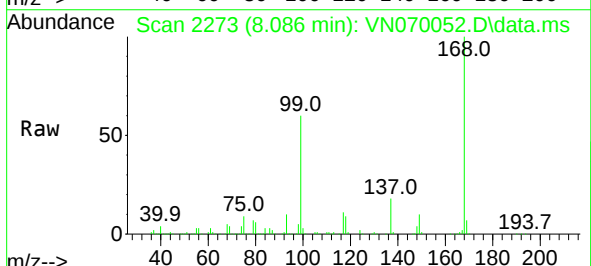
Tgt Ion: 75 Resp: 92597

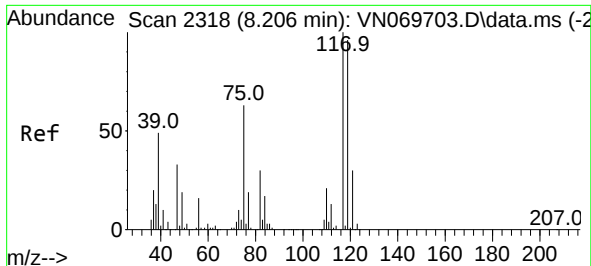
Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.2#

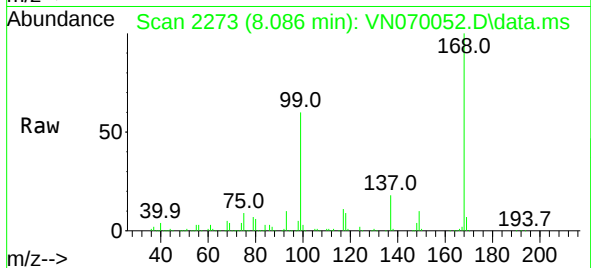
77 0.1 24.4 36.6#



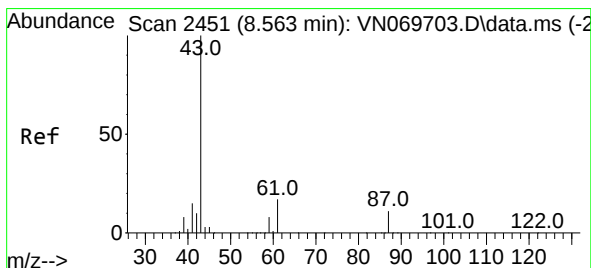
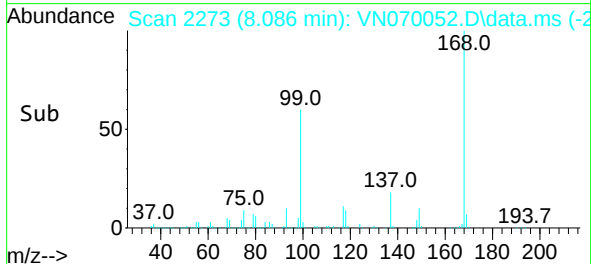
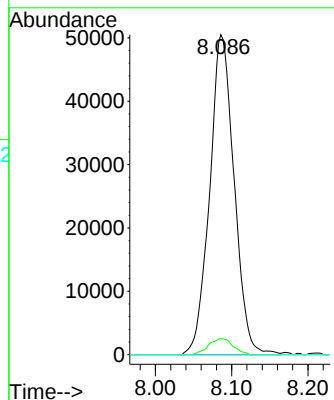


#38
Carbon Tetrachloride
Concen: 5.676 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.120 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Instrument :
MSVOA_N
ClientSampleId :

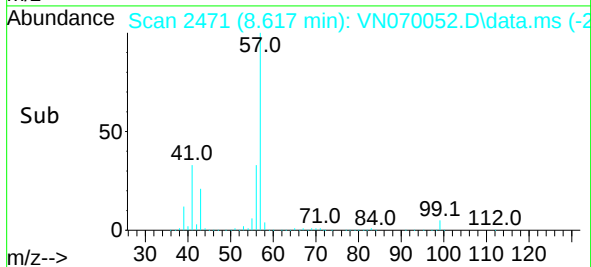
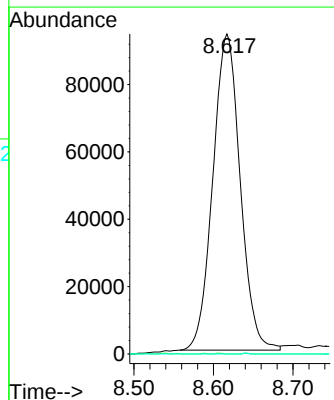
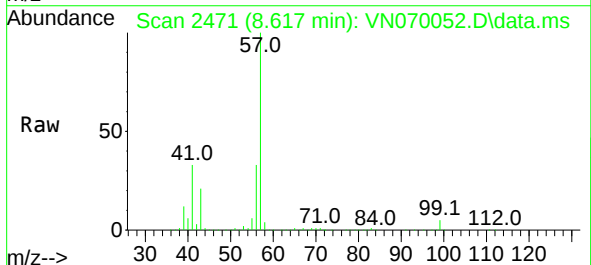


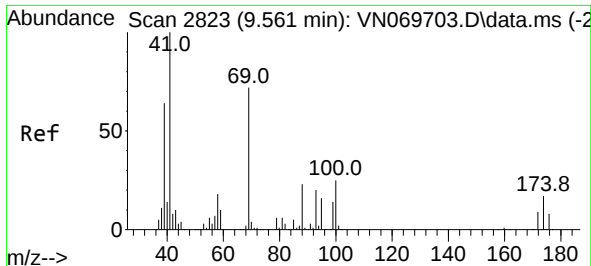
Tgt Ion:117 Resp: 112532
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 5.045 ug/l
RT: 8.617 min Scan# 2471
Delta R.T. 0.054 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 43 Resp: 224633
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

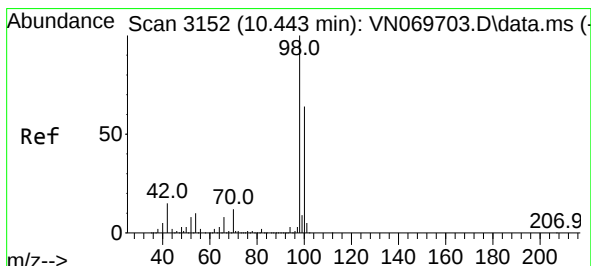
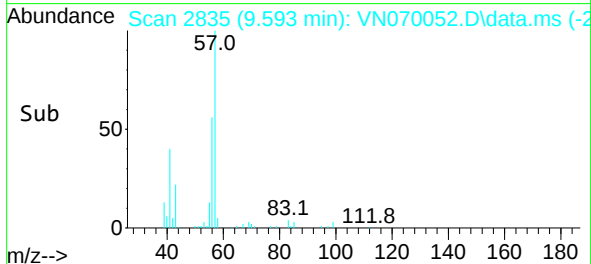
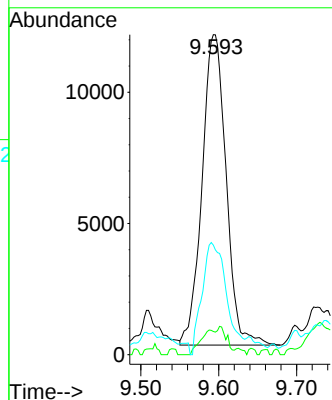
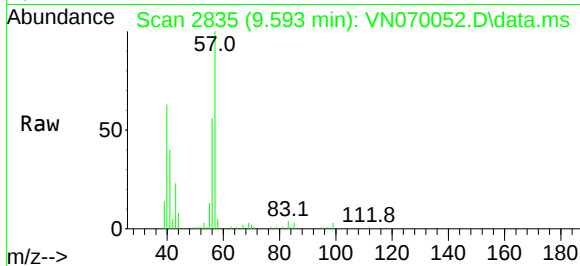




#48
Methyl methacrylate
Concen: 1.225 ug/l
RT: 9.593 min Scan# 21
Delta R.T. 0.032 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

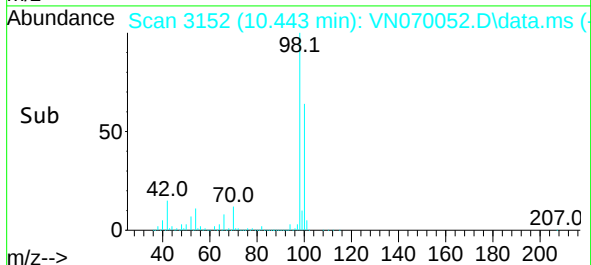
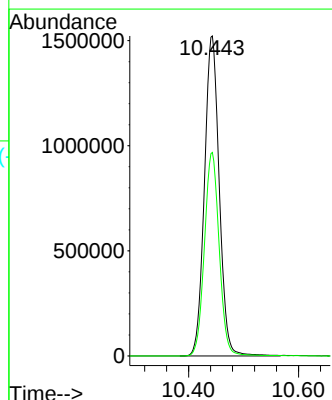
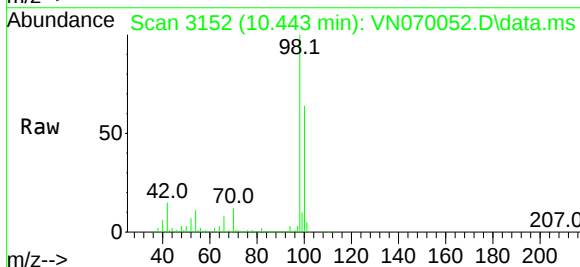
Instrument :
MSVOA_N
ClientSampleId :

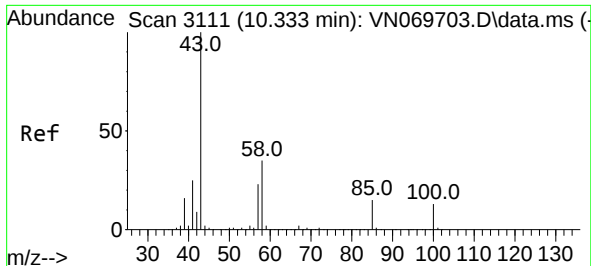
Tgt Ion: 41 Resp: 25459
Ion Ratio Lower Upper
41 100
69 4.9 72.4 108.6#
39 36.8 58.4 87.6#



#50
Toluene-d8
Concen: 53.390 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 98 Resp: 2851656
Ion Ratio Lower Upper
98 100
100 63.3 50.4 75.6

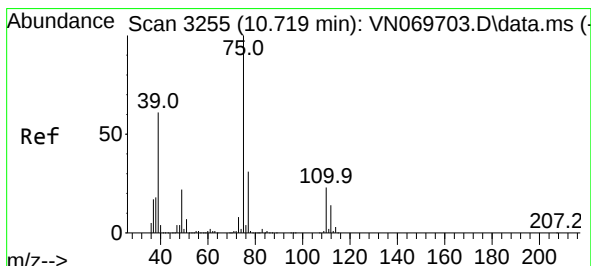
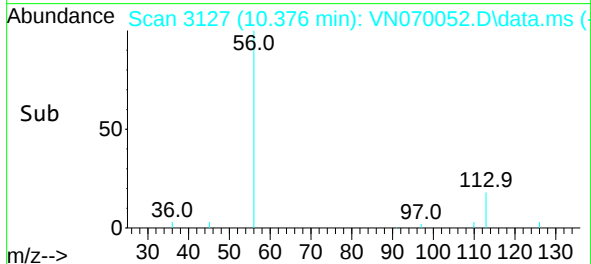
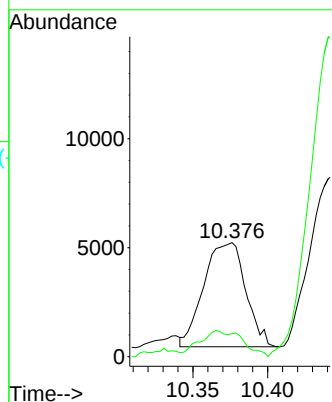
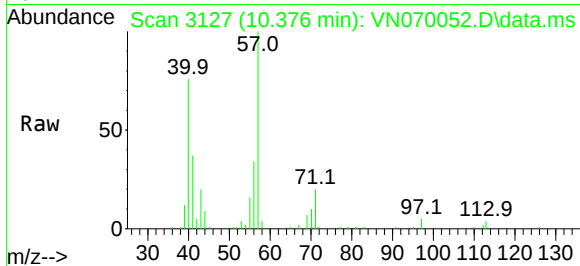




#51
4-Methyl-2-Pentanone
Concen: 0.322 ug/l
RT: 10.376 min Scan# 3111
Delta R.T. 0.043 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

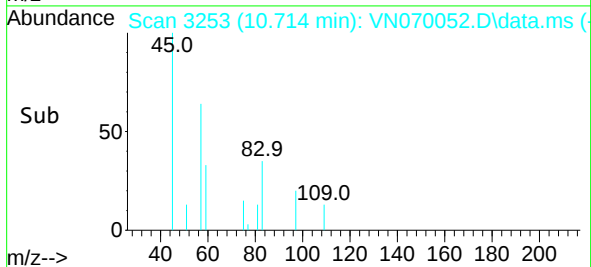
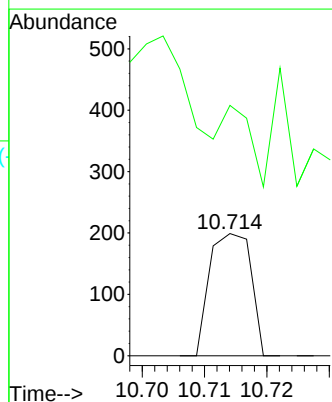
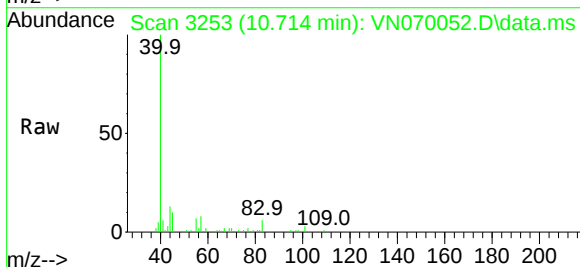
Instrument :
MSVOA_N
ClientSampleId :

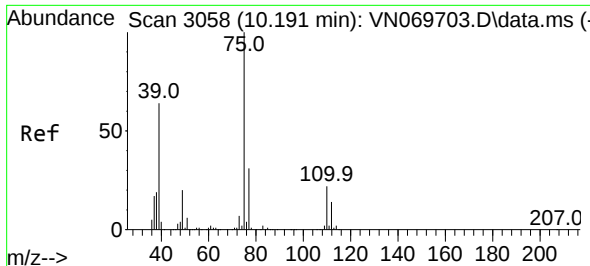
Tgt Ion: 43 Resp: 9289
Ion Ratio Lower Upper
43 100
58 12.7 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 2.798 ug/l
RT: 10.714 min Scan# 3253
Delta R.T. -0.005 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 75 Resp: 91
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#

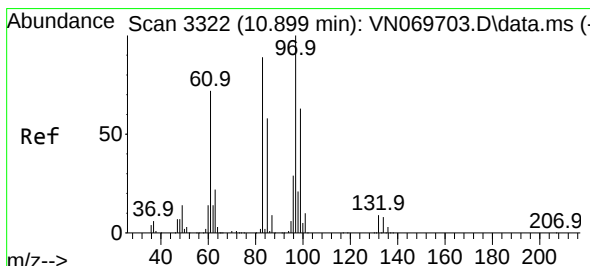
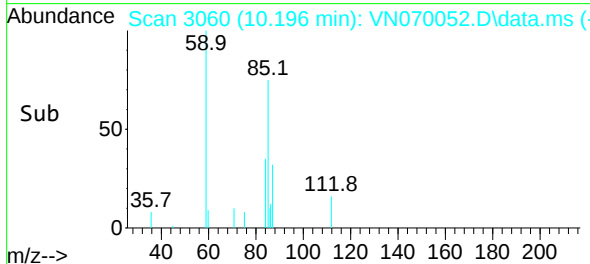
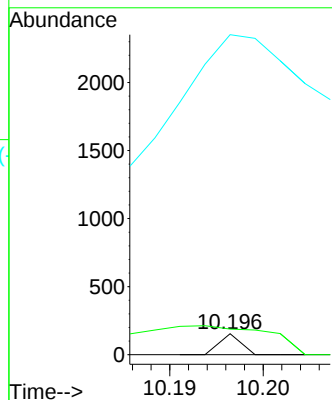
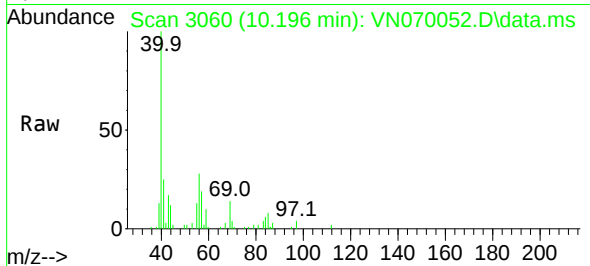




#54
cis-1,3-Dichloropropene
Concen: 2.000 ug/l
RT: 10.196 min Scan# 3058
Delta R.T. 0.005 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

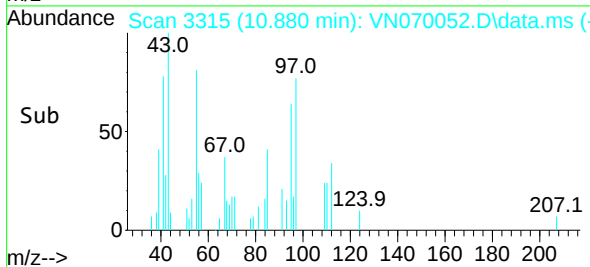
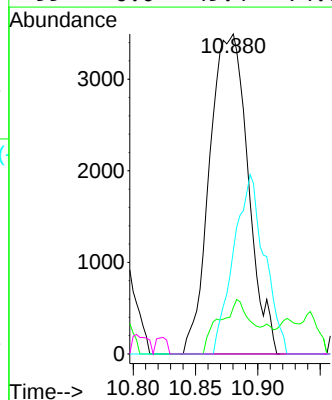
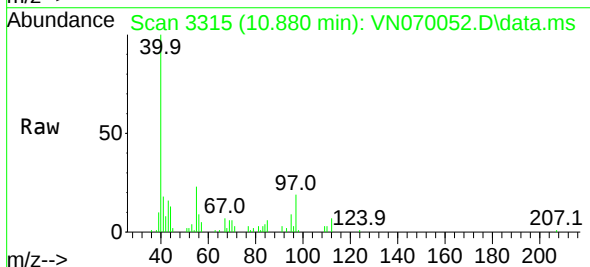
Instrument :
MSVOA_N
ClientSampleId :

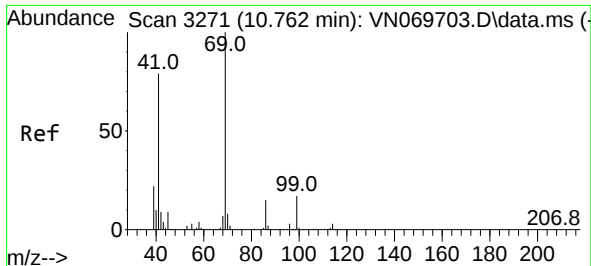
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 21.4 26.4 39.6#
39 322.1 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.493 ug/l
RT: 10.880 min Scan# 3315
Delta R.T. -0.019 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion: 97 Resp: 7497
Ion Ratio Lower Upper
97 100
83 14.5 67.8 101.6#
85 32.3 45.4 68.2#
99 0.0 49.4 74.0#

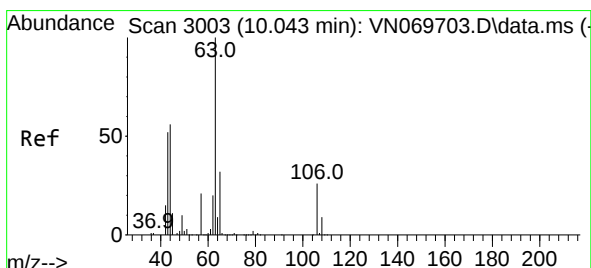
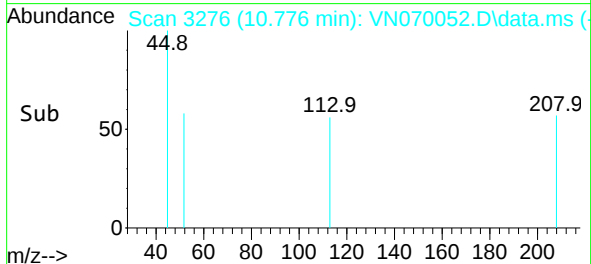
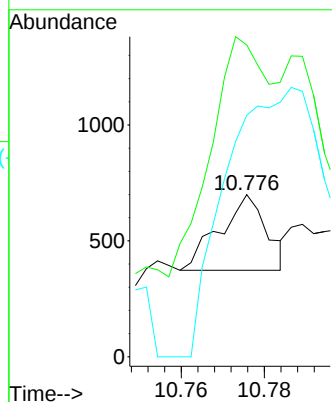
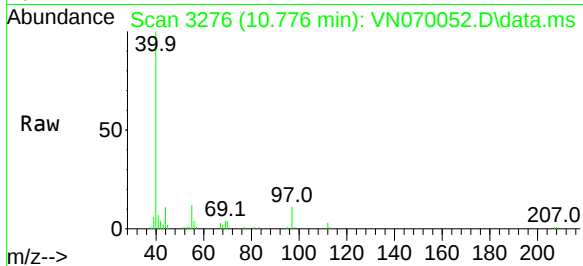




#56
Ethyl methacrylate
Concen: 2.288 ug/l
RT: 10.776 min Scan# 31
Delta R.T. 0.014 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

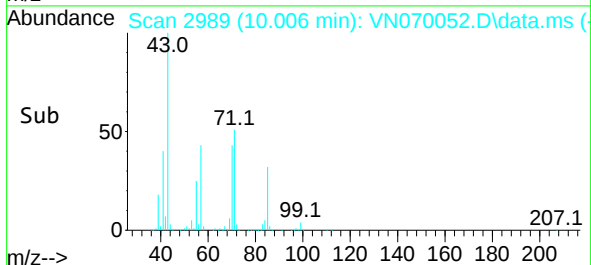
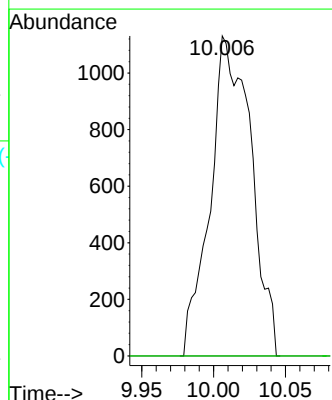
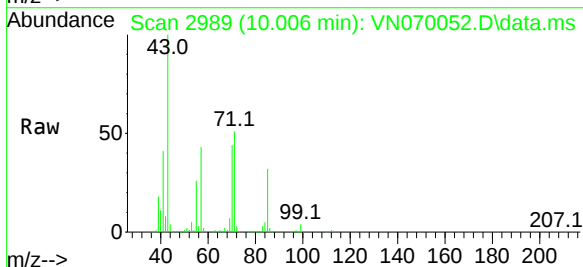
Instrument :
MSVOA_N
ClientSampleId :

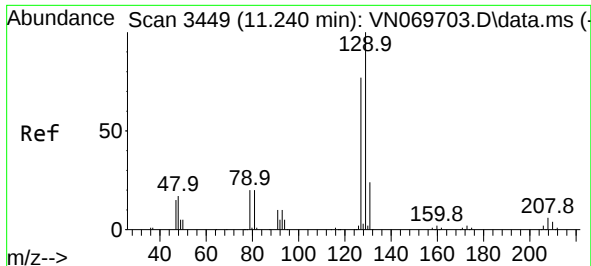
Tgt Ion: 69 Resp: 257
Ion Ratio Lower Upper
69 100
41 374.7 51.4 77.0#
39 793.4 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.656 ug/l
RT: 10.006 min Scan# 2989
Delta R.T. -0.037 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

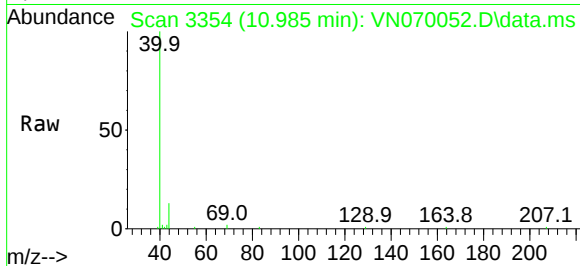
Tgt Ion: 63 Resp: 2235
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



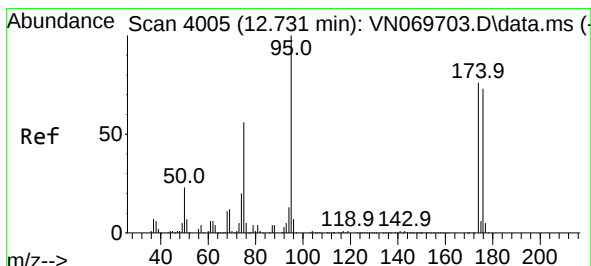
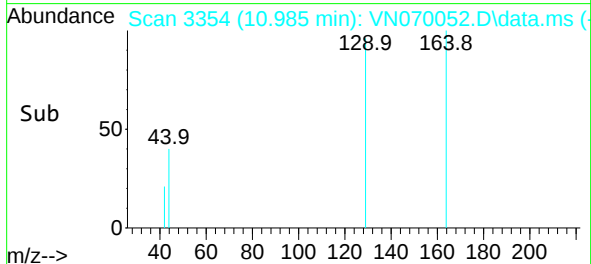
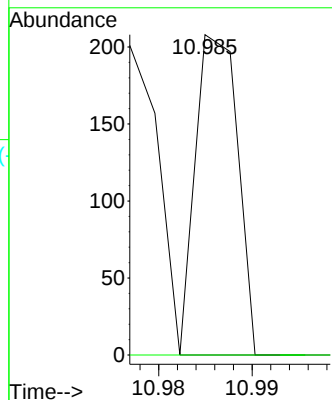


#60
Dibromochloromethane
Concen: 2.380 ug/l
RT: 10.985 min Scan# 31
Delta R.T. -0.255 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Instrument :
MSVOA_N
ClientSampleId :

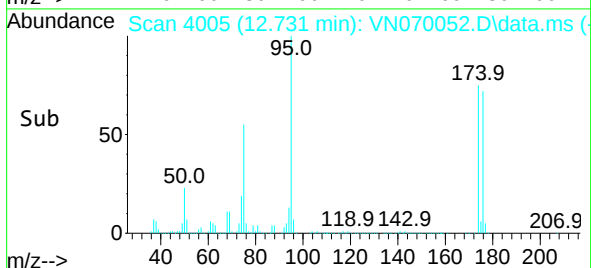
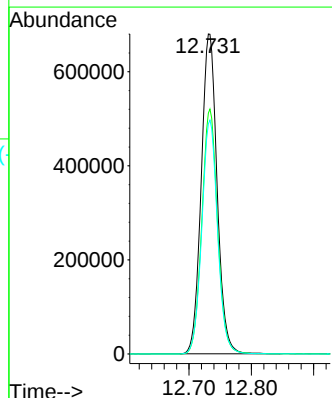
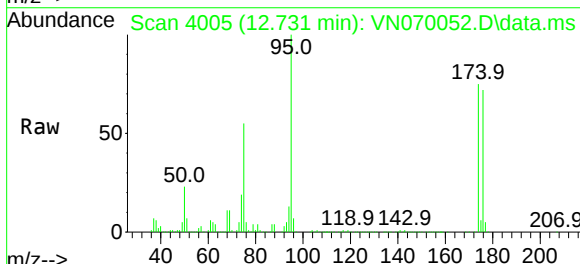


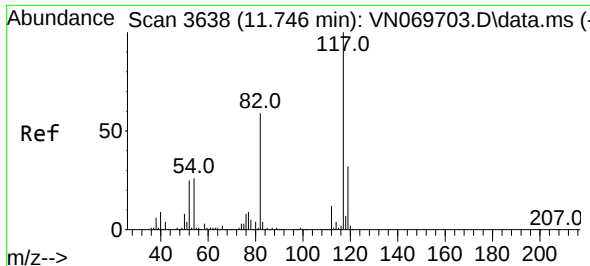
Tgt Ion:129 Resp: 65
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 62.066 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

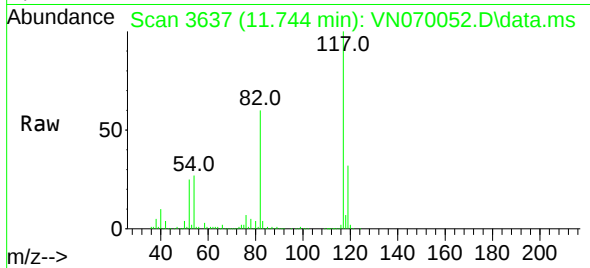
Tgt Ion: 95 Resp: 1200976
Ion Ratio Lower Upper
95 100
174 76.0 0.0 187.2
176 72.6 0.0 181.4



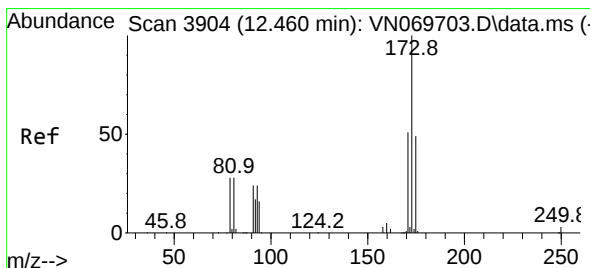
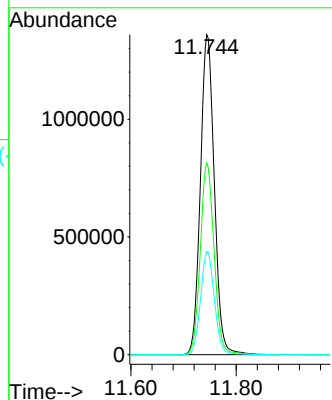
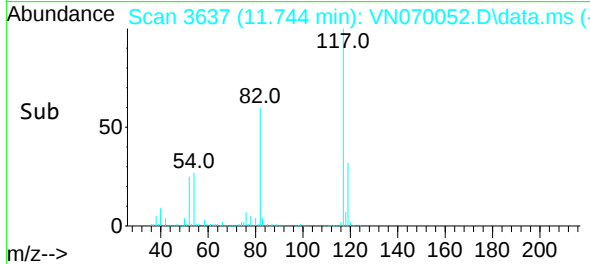


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Instrument :
MSVOA_N
ClientSampleId :

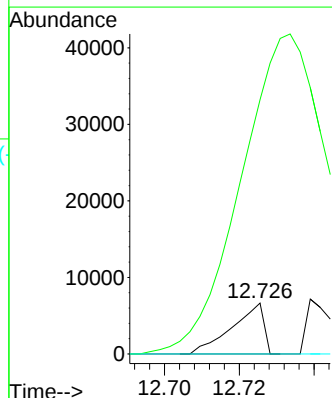
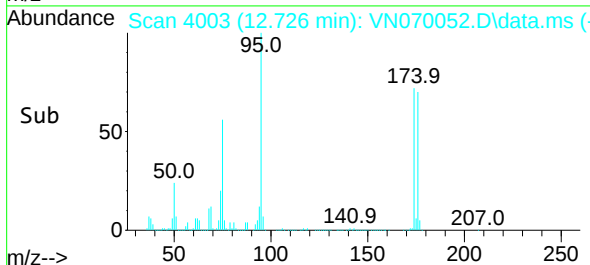
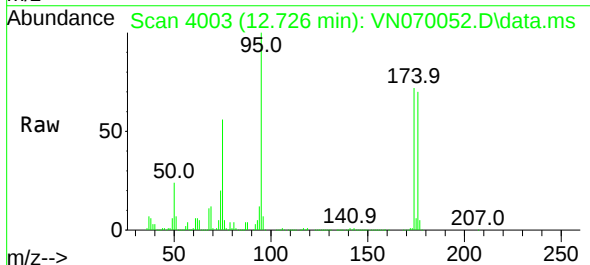


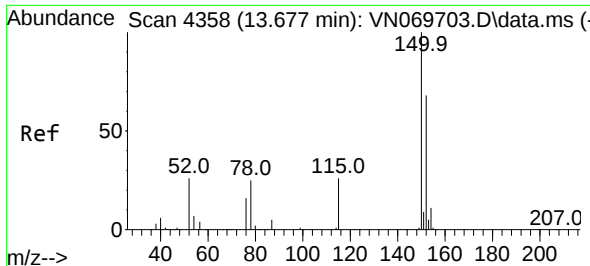
Tgt Ion:117 Resp: 2497328
Ion Ratio Lower Upper
117 100
82 59.8 42.4 63.6
119 32.3 25.4 38.2



#71
Bromoform
Concen: 2.973 ug/l
RT: 12.726 min Scan# 4003
Delta R.T. 0.266 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

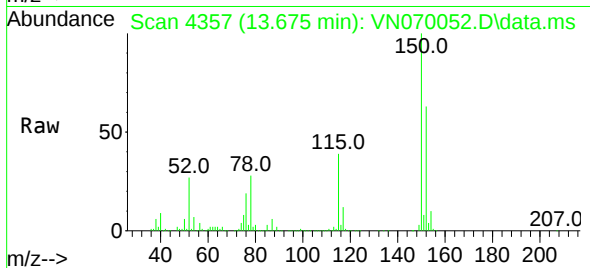
Tgt Ion:173 Resp: 3911
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



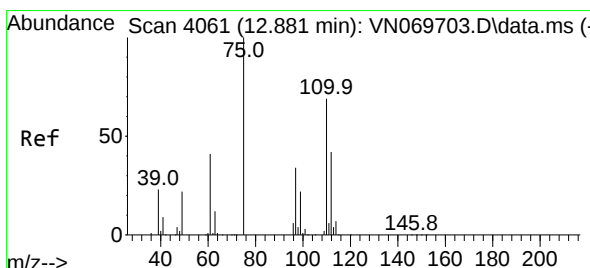
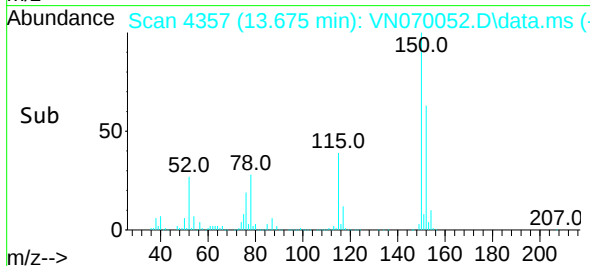
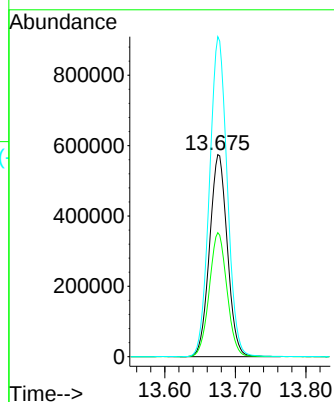


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. -0.002 min
 Lab File: VN070052.D
 Acq: 14 Dec 2021 00:59

Instrument :
 MSVOA_N
 ClientSampleId :

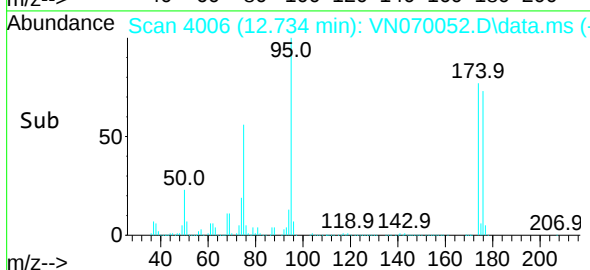
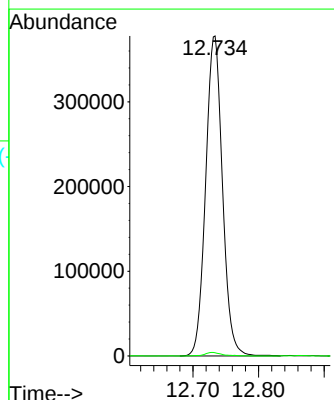
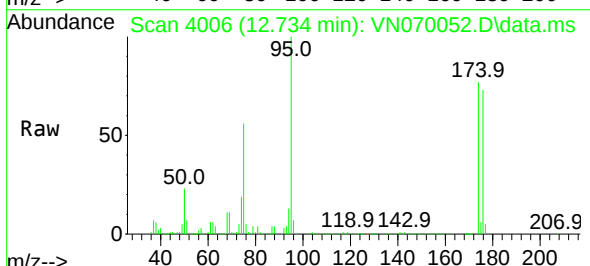


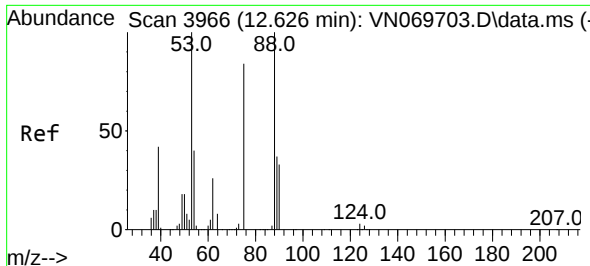
Tgt Ion:152 Resp: 1005553
 Ion Ratio Lower Upper
 152 100
 115 60.9 27.5 82.5
 150 157.8 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 23.281 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. -0.147 min
 Lab File: VN070052.D
 Acq: 14 Dec 2021 00:59

Tgt Ion: 75 Resp: 671359
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#

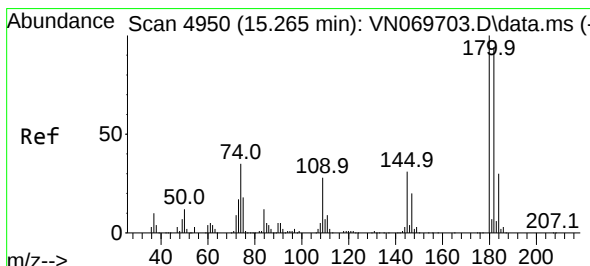
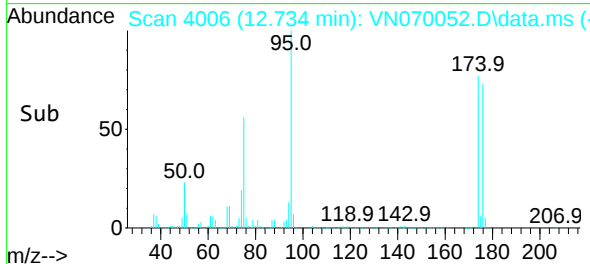
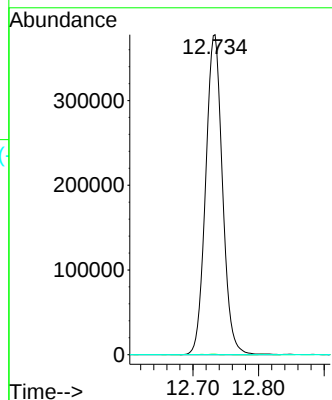
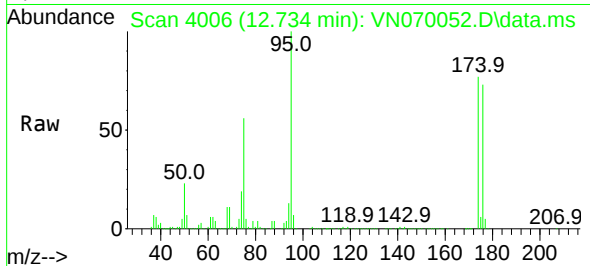




#81
trans-1,4-Dichloro-2-butene
Concen: 74.069 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

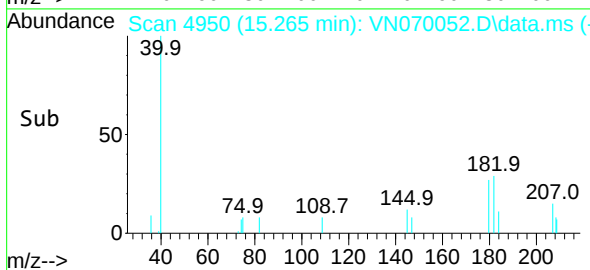
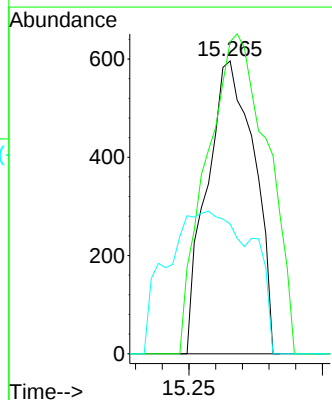
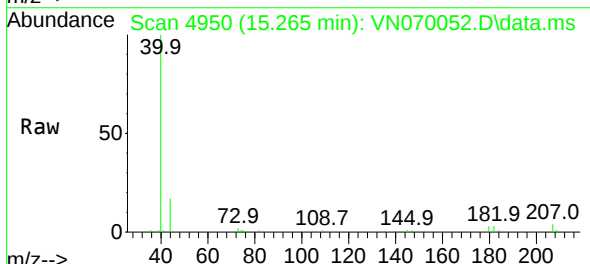
Instrument :
MSVOA_N
ClientSampleId :

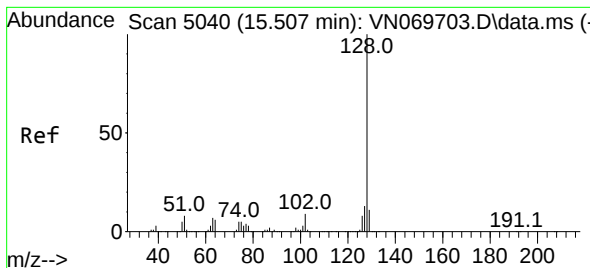
Tgt Ion: 75 Resp: 671359
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.920 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN070052.D
Acq: 14 Dec 2021 00:59

Tgt Ion:180 Resp: 732
Ion Ratio Lower Upper
180 100
182 141.0 48.3 144.9
145 87.6 14.5 43.5#





#95

Naphthalene

Concen: 4.055 ug/l

RT: 15.515 min Scan# 5043

Delta R.T. 0.008 min

Lab File: VN070052.D

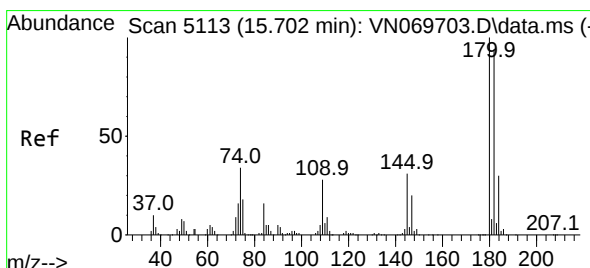
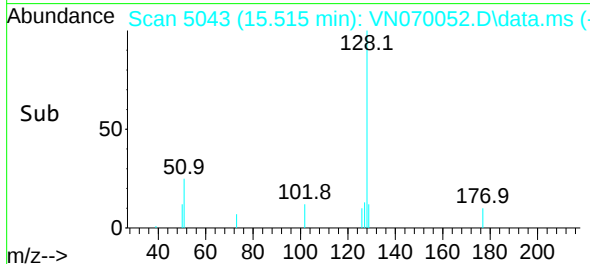
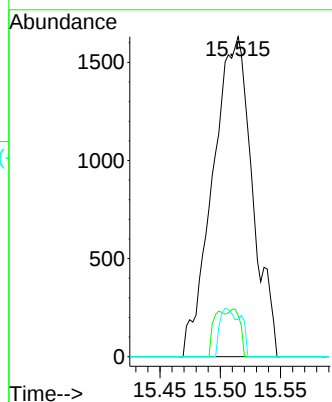
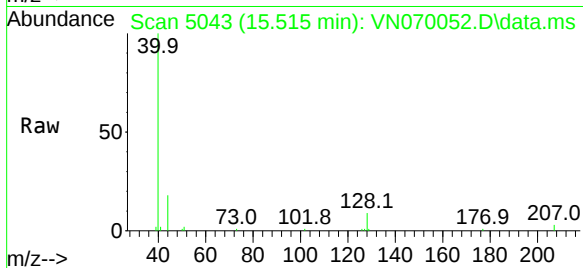
Acq: 14 Dec 2021 00:59

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	3732
Ion Ratio	Lower	Upper
128	100	
127	4.6	10.5 15.7#
129	8.0	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 2.501 ug/l

RT: 15.711 min Scan# 5116

Delta R.T. 0.009 min

Lab File: VN070052.D

Acq: 14 Dec 2021 00:59

Tgt Ion:180	Resp:	1113
Ion Ratio	Lower	Upper
180	100	
182	58.6	47.4 142.2
145	22.4	15.0 45.1

