

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120621\
 Data File : VN069797.D
 Acq On : 6 Dec 2021 21:02
 Operator : JC/MD
 Sample : M4936-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 03:51:02 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

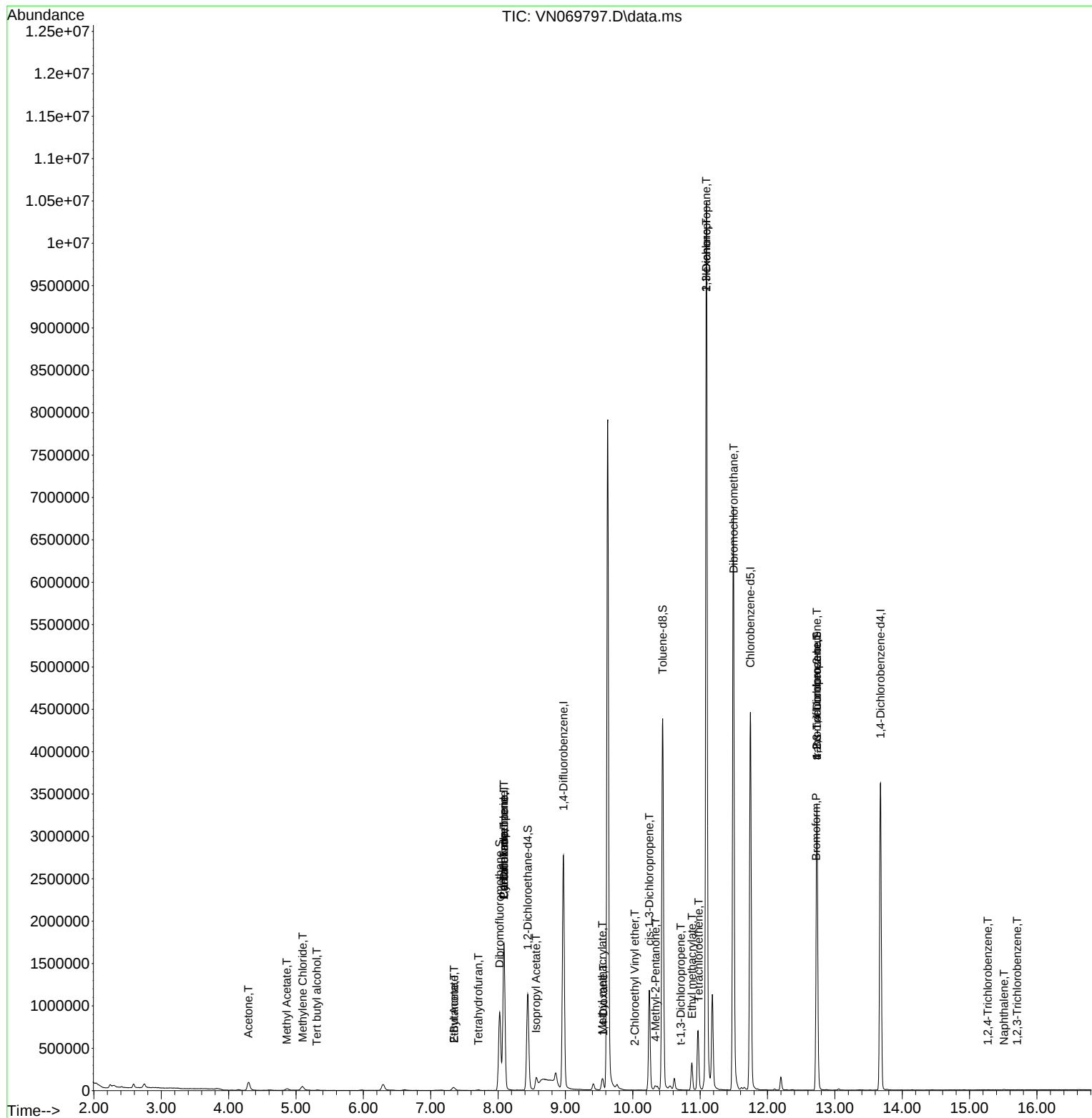
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.088	168	1271344	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2318743	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2471117	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	954096	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	970942	49.463	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.920%
35) Dibromofluoromethane	8.024	113	670386	46.157	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	92.320%
50) Toluene-d8	10.443	98	2996756	51.386	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.780%
62) 4-Bromofluorobenzene	12.734	95	1156768	54.751	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	109.500%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.310	59	3514	0.947	ug/l #	71
16) Acetone	4.293	43	181259	15.350	ug/l	98
18) Methyl Acetate	4.865	43	42732	1.199	ug/l #	71
20) Methylene Chloride	5.098	84	31108	1.982	ug/l #	83
25) 2-Butanone	7.345	43	28762	1.793	ug/l	95
29) Tetrahydrofuran	7.708	42	5844	0.600	ug/l #	48
31) Cyclohexane	8.088	56	33426	1.224	ug/l #	19
36) 1,1-Dichloropropene	8.086	75	108841	4.931	ug/l #	49
37) Ethyl Acetate	7.345	43	28762	0.875	ug/l #	69
38) Carbon Tetrachloride	8.088	117	133245	6.156	ug/l #	16
43) Isopropyl Acetate	8.566	43	205576	4.228	ug/l #	79
48) Methyl methacrylate	9.547	41	40580	1.789	ug/l #	8
49) 1,4-Dioxane	9.561	88	122	0.300	ug/l #	1
51) 4-Methyl-2-Pentanone	10.339	43	25259	0.801	ug/l #	85
53) t-1,3-Dichloropropene	10.711	75	117	2.798	ug/l #	15
54) cis-1,3-Dichloropropene	10.245	75	192393	8.502	ug/l #	71
56) Ethyl methacrylate	10.878	69	2126	2.344	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	104946	3.586	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.030	63	27	18.392	ug/l #	45
59) 2-Hexanone	11.092	43	1853928	77.703	ug/l #	48
60) Dibromochloromethane	11.500	129	1042	2.432	ug/l #	11
64) Tetrachloroethene	10.977	164	3764	0.225	ug/l	99
71) Bromoform	12.723	173	2605	2.894	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	645367	23.587	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	645367	74.988	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.271	180	259	2.894	ug/l #	67
95) Naphthalene	15.509	128	5286	4.089	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.705	180	279	2.453	ug/l #	58

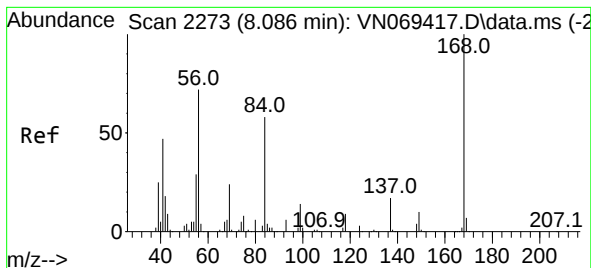
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 03 08:46:47 2021
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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: VN069797.D

Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

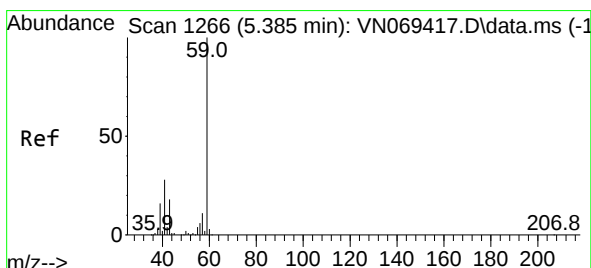
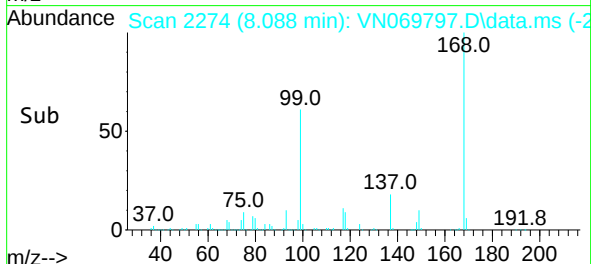
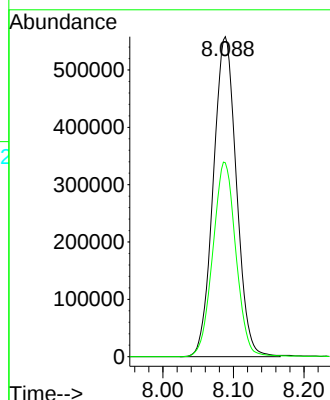
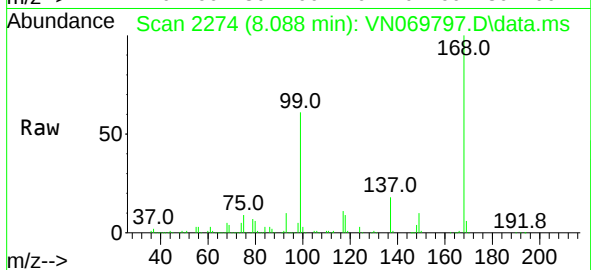
ClientSampleId :

Tgt Ion:168 Resp: 1271344

Ion Ratio Lower Upper

168 100

99 60.6 41.3 61.9



#11

Tert butyl alcohol

Concen: 0.947 ug/l

RT: 5.310 min Scan# 1238

Delta R.T. -0.080 min

Lab File: VN069797.D

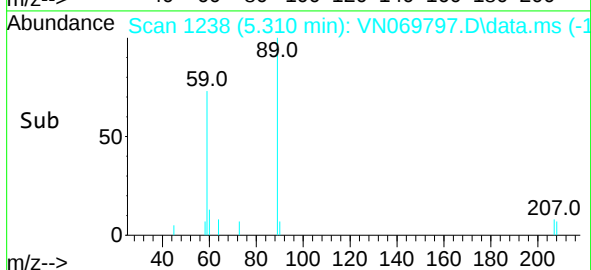
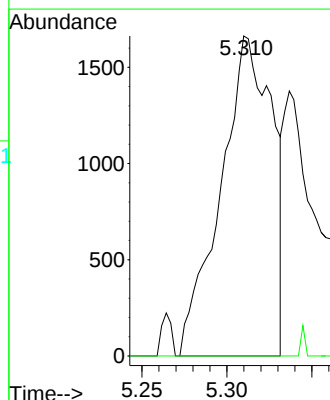
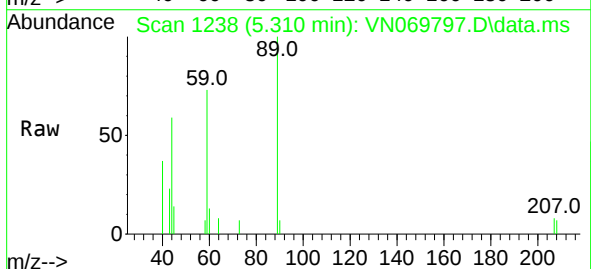
Acq: 6 Dec 2021 21:02

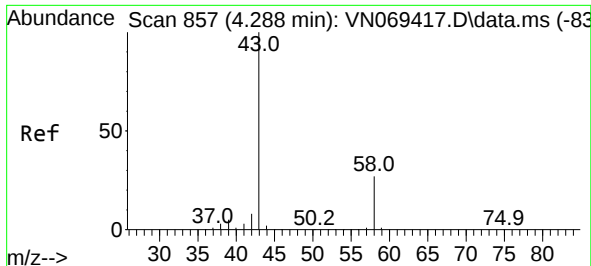
Tgt Ion: 59 Resp: 3514

Ion Ratio Lower Upper

59 100

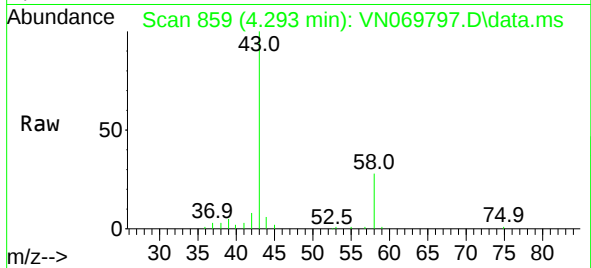
57 0.0 8.7 13.1#



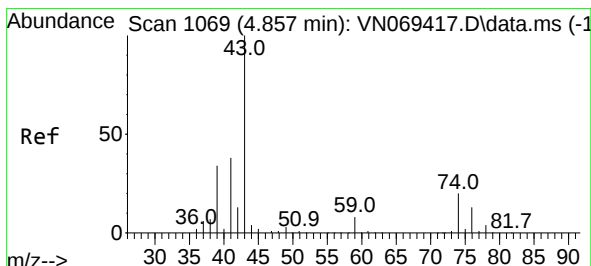
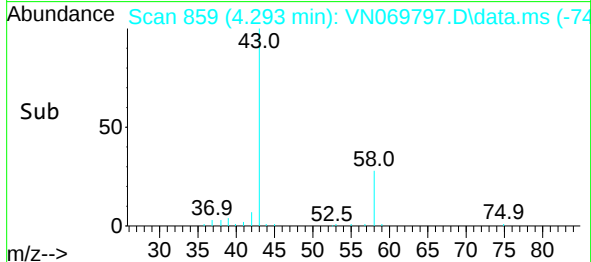
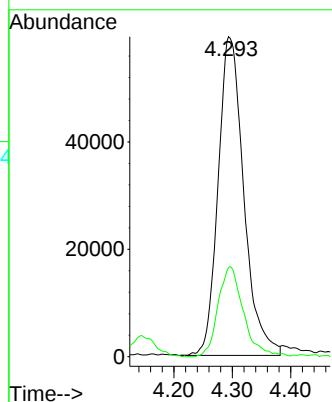


#16
Acetone
Concen: 15.350 ug/l
RT: 4.293 min Scan# 81
Delta R.T. 0.003 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Instrument :
MSVOA_N
ClientSampleId :

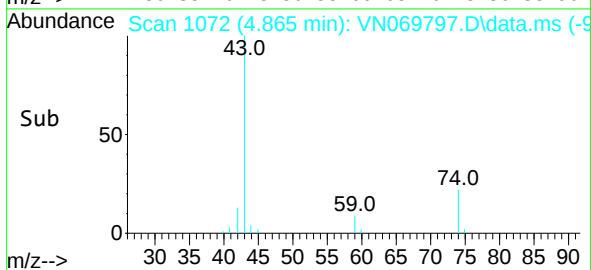
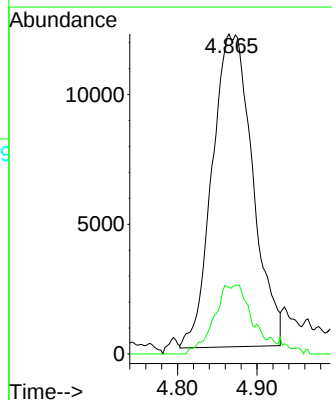
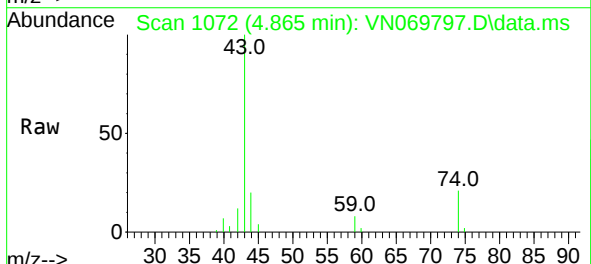


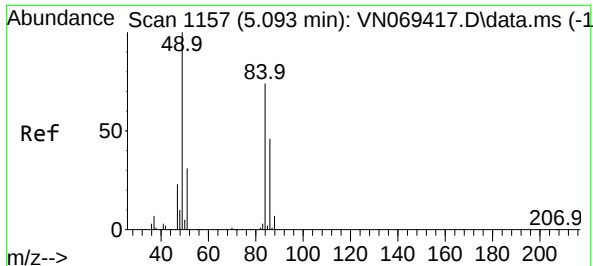
Tgt Ion: 43 Resp: 181259
Ion Ratio Lower Upper
43 100
58 27.6 23.1 34.7



#18
Methyl Acetate
Concen: 1.199 ug/l
RT: 4.865 min Scan# 1072
Delta R.T. 0.008 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Tgt Ion: 43 Resp: 42732
Ion Ratio Lower Upper
43 100
74 9.7 19.4 29.2#





#20

Methylene Chloride

Concen: 1.982 ug/l

RT: 5.098 min Scan# 1157

Delta R.T. 0.006 min

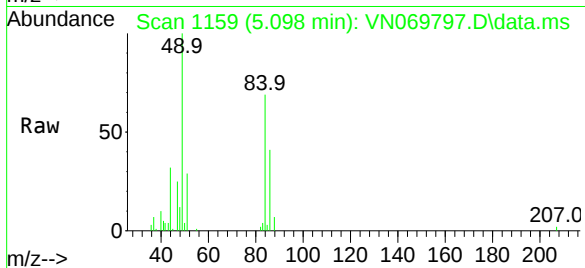
Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 31108

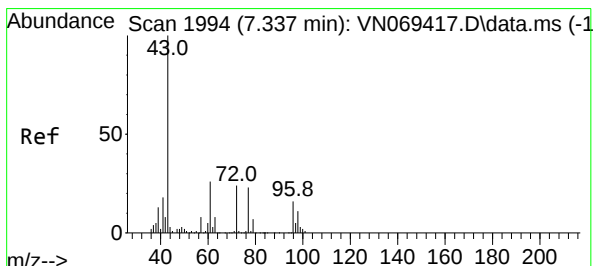
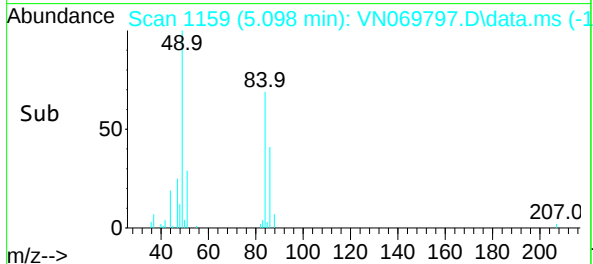
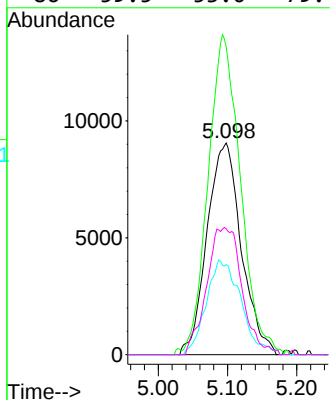
Ion Ratio Lower Upper

84 100

49 142.9 93.5 140.3#

51 42.6 29.4 44.2

86 59.5 53.0 79.4



#25

2-Butanone

Concen: 1.793 ug/l

RT: 7.345 min Scan# 1997

Delta R.T. 0.008 min

Lab File: VN069797.D

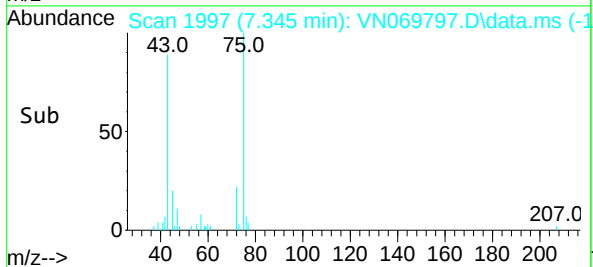
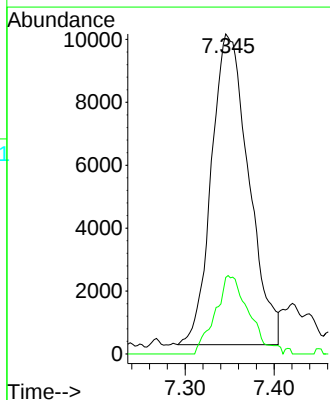
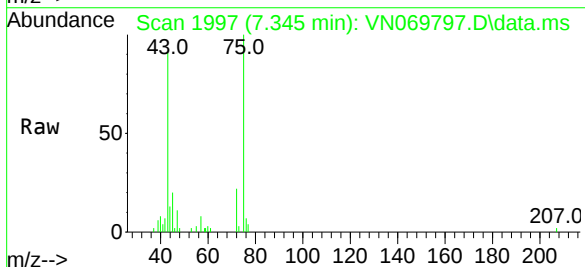
Acq: 6 Dec 2021 21:02

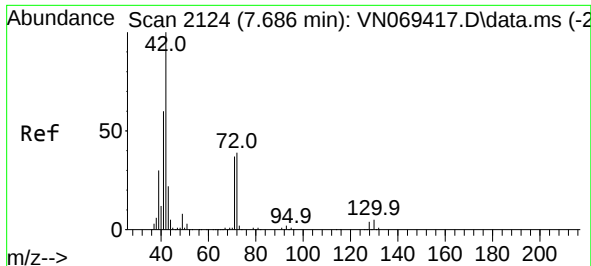
Tgt Ion: 43 Resp: 28762

Ion Ratio Lower Upper

43 100

72 24.6 21.7 32.5





#29

Tetrahydrofuran

Concen: 0.600 ug/l

RT: 7.708 min Scan# 21

Delta R.T. 0.022 min

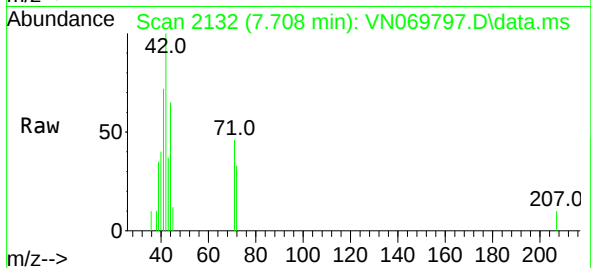
Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

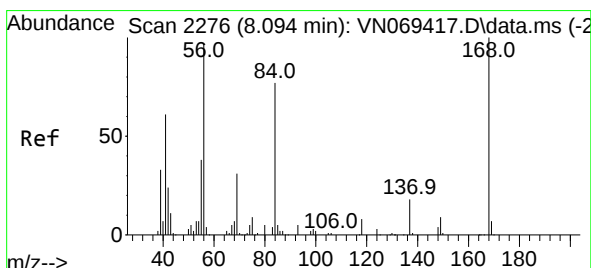
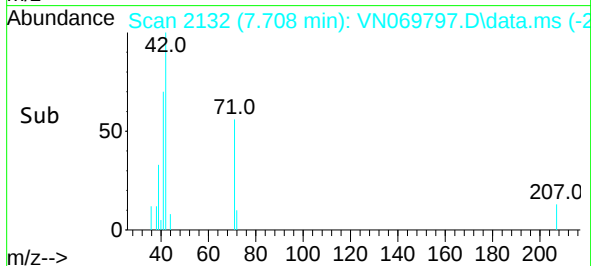
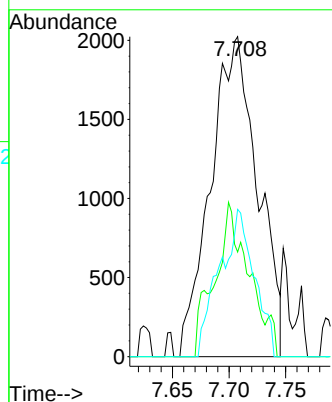
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	5844
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.3	54.5#
71	21.6	34.7	52.1#



#31

Cyclohexane

Concen: 1.224 ug/l

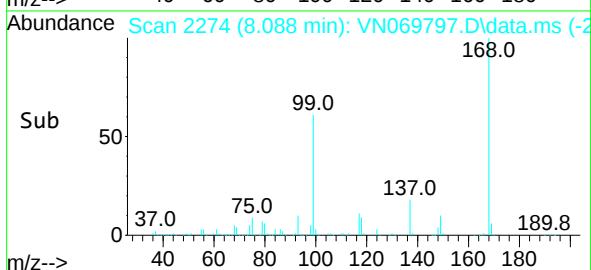
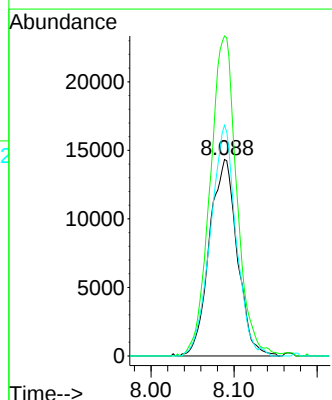
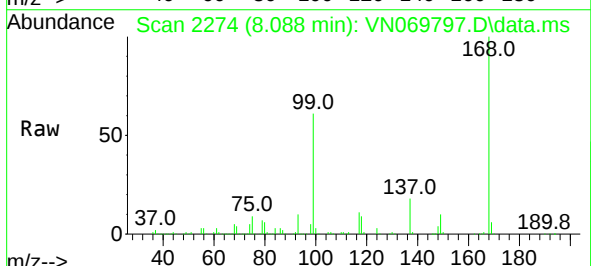
RT: 8.088 min Scan# 2274

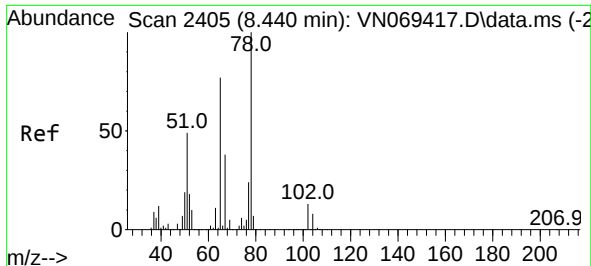
Delta R.T. -0.005 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Tgt Ion:	56	Resp:	33426
Ion	Ratio	Lower	Upper
56	100		
69	162.9	27.1	40.7#
84	117.5	73.4	110.0#





#33

1,2-Dichloroethane-d4

Concen: 49.463 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

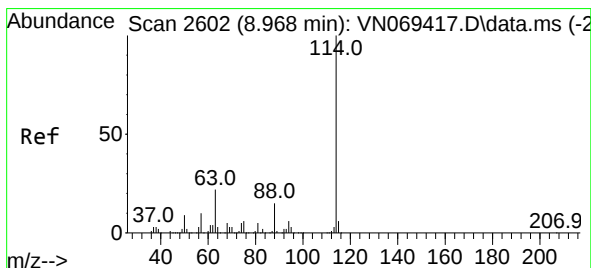
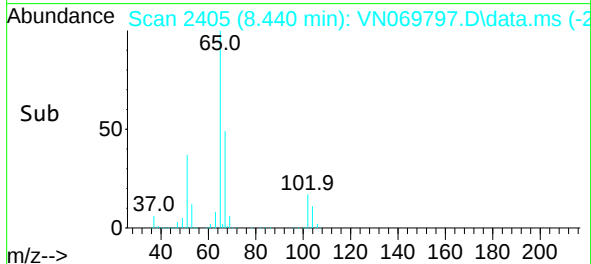
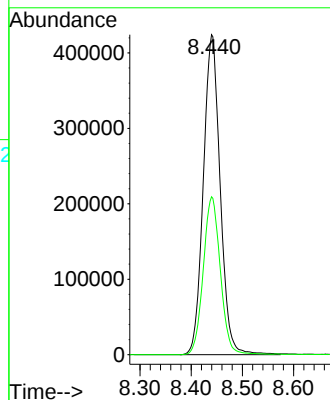
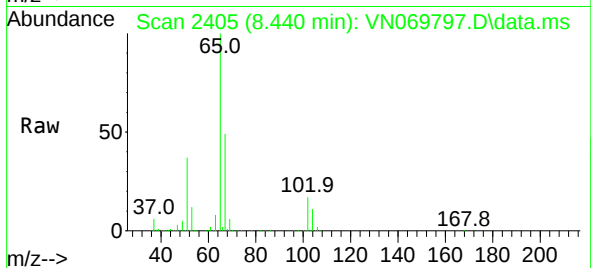
ClientSampleId :

Tgt Ion: 65 Resp: 970942

Ion Ratio Lower Upper

65 100

67 50.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

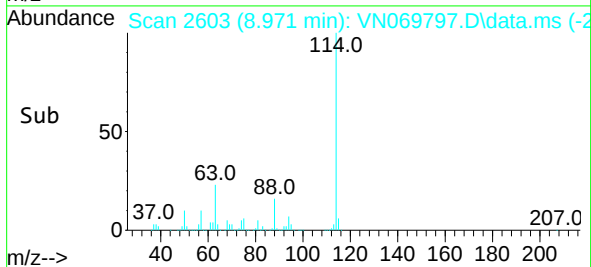
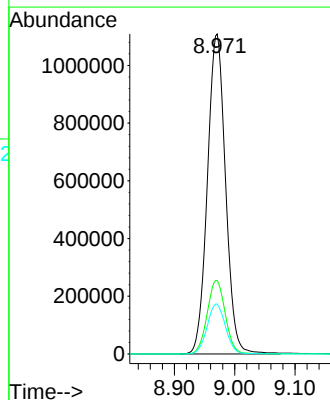
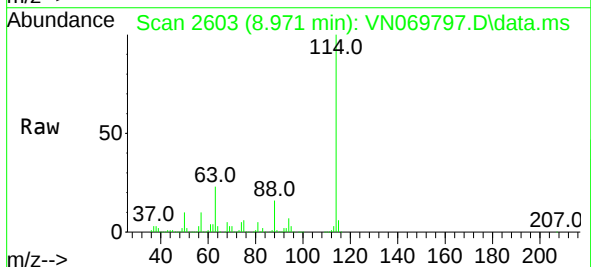
Tgt Ion: 114 Resp: 2318743

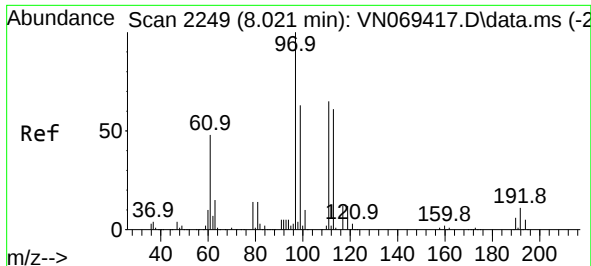
Ion Ratio Lower Upper

114 100

63 23.0 0.0 37.8

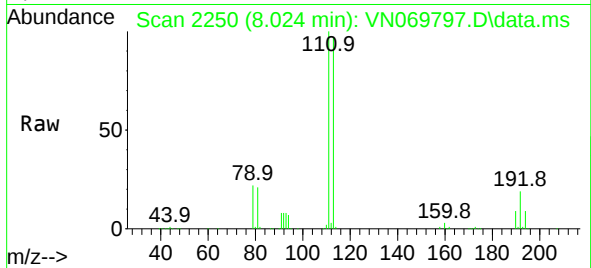
88 15.6 0.0 27.4



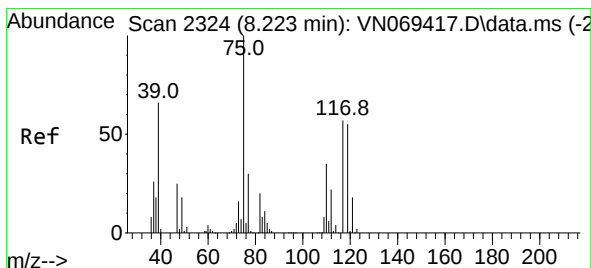
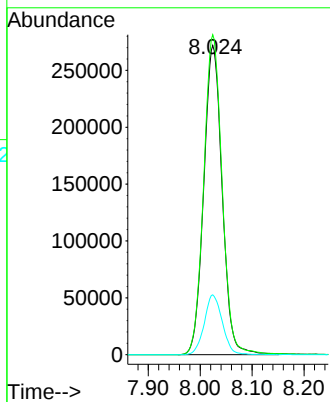
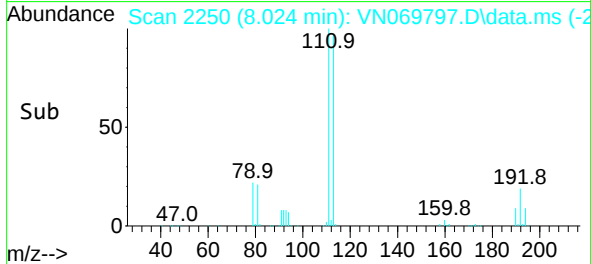


#35
 Dibromofluoromethane
 Concen: 46.157 ug/l
 RT: 8.024 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN069797.D
 Acq: 6 Dec 2021 21:02

Instrument :
 MSVOA_N
 ClientSampleId :

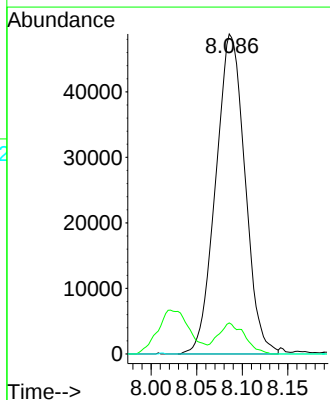
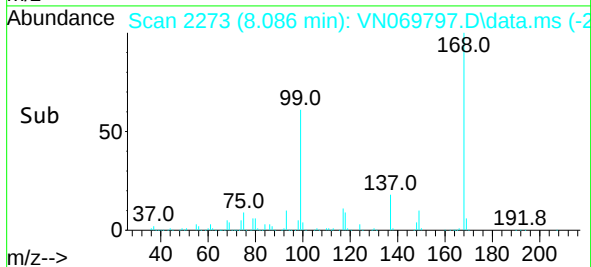
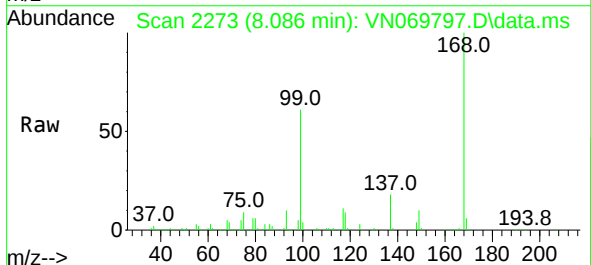


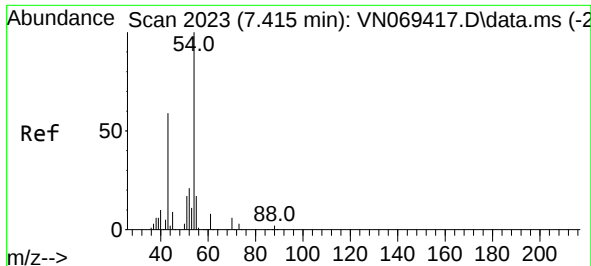
Tgt Ion:113 Resp: 670386
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.2 123.2
 192 19.0 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 4.931 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.137 min
 Lab File: VN069797.D
 Acq: 6 Dec 2021 21:02

Tgt Ion: 75 Resp: 108841
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.4 55.2#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.875 ug/l

RT: 7.345 min Scan# 1997

Delta R.T. -0.070 min

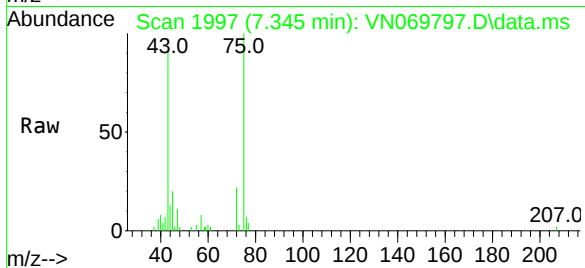
Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

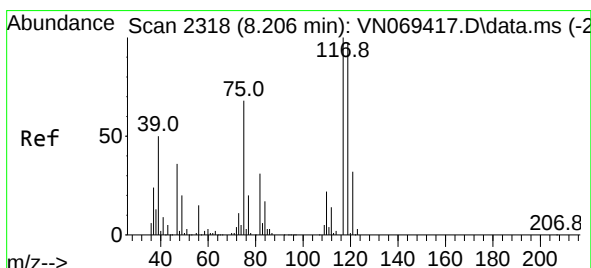
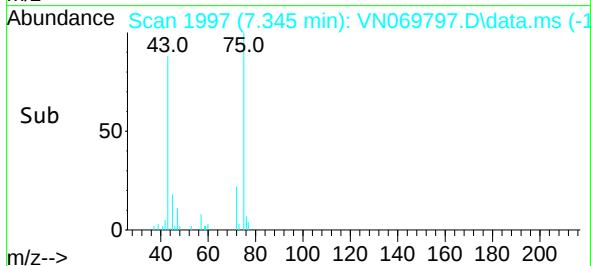
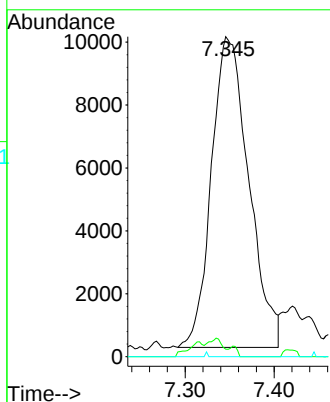
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	28762
Ion	Ratio	Lower	Upper
43	100		
61	0.6	11.5	17.3#
70	0.0	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 6.156 ug/l

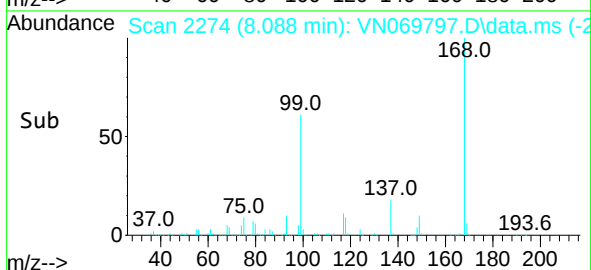
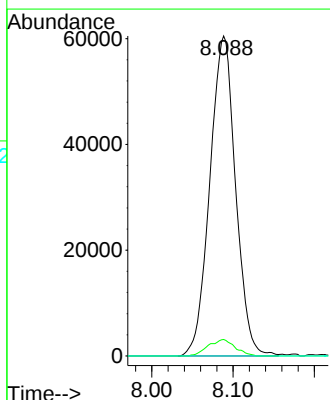
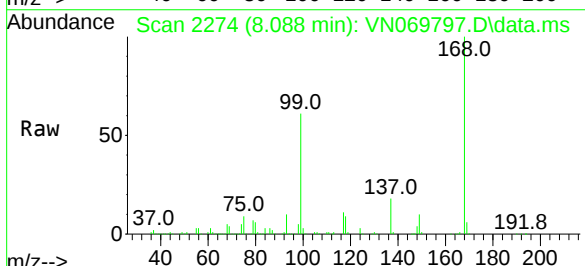
RT: 8.088 min Scan# 2274

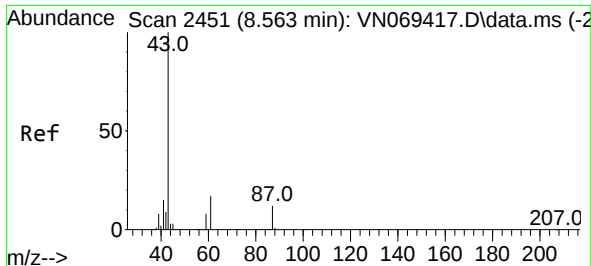
Delta R.T. -0.118 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

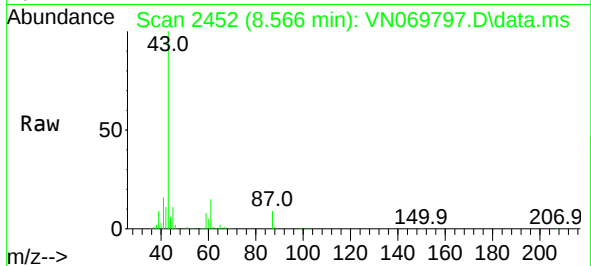
Tgt Ion:	117	Resp:	133245
Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.1	114.1#
121	0.0	24.2	36.2#



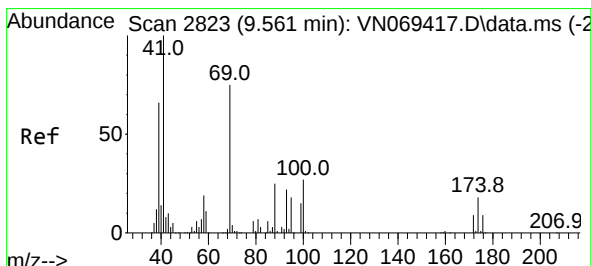
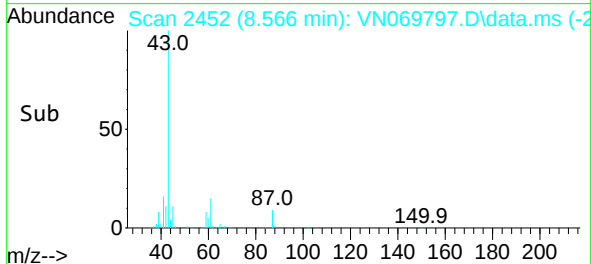
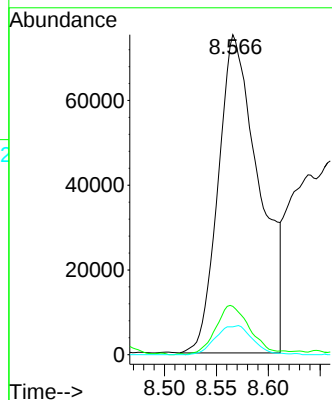


#43
Isopropyl Acetate
Concen: 4.228 ug/l
RT: 8.566 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Instrument :
MSVOA_N
ClientSampleId :

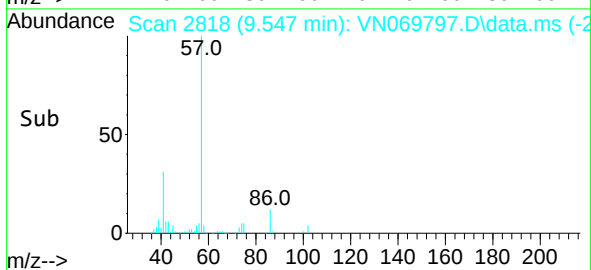
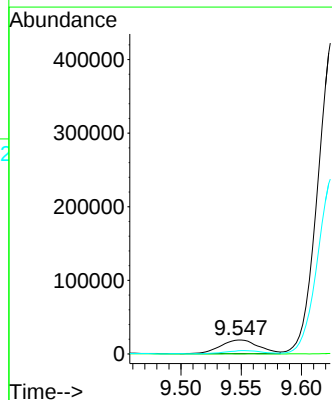
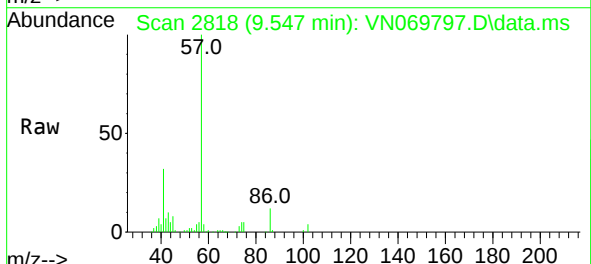


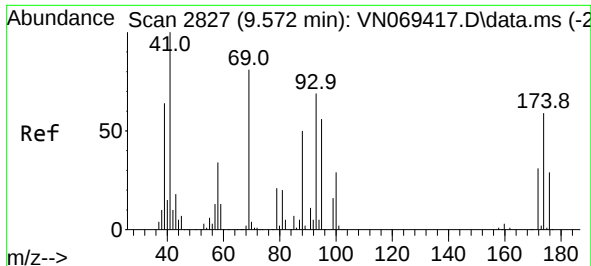
Tgt Ion: 43 Resp: 205576
Ion Ratio Lower Upper
43 100
61 12.9 20.4 30.6#
87 8.2 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.789 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Tgt Ion: 41 Resp: 40580
Ion Ratio Lower Upper
41 100
69 0.2 72.4 108.6#
39 0.0 58.4 87.6#





#49

1,4-Dioxane

Concen: 0.300 ug/l

RT: 9.561 min Scan# 21

Delta R.T. -0.011 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

ClientSampleId :

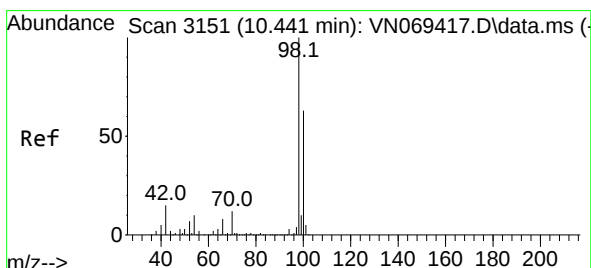
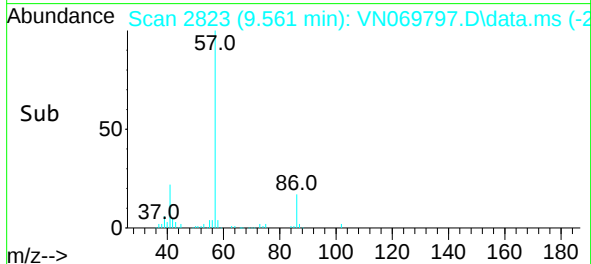
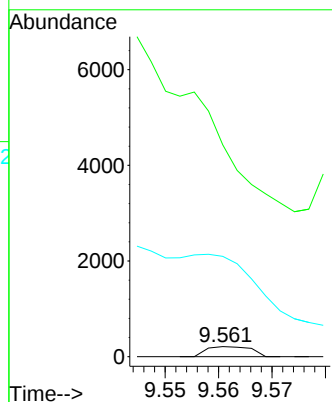
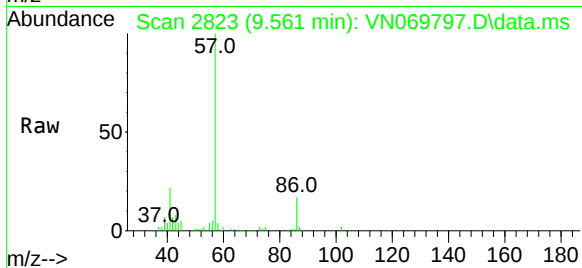
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 2655.7 50.6 75.8#



#50

Toluene-d8

Concen: 51.386 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069797.D

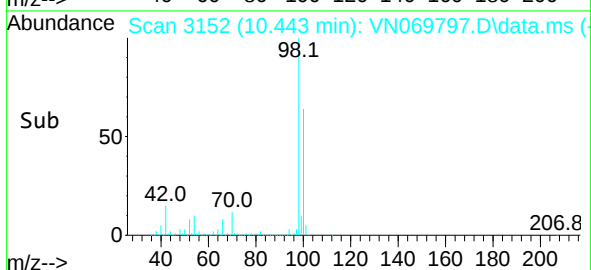
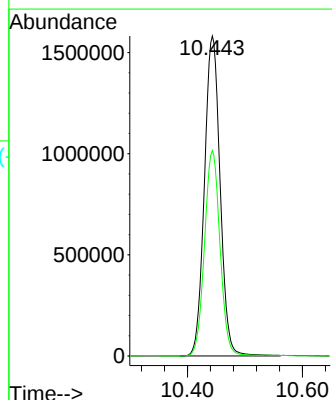
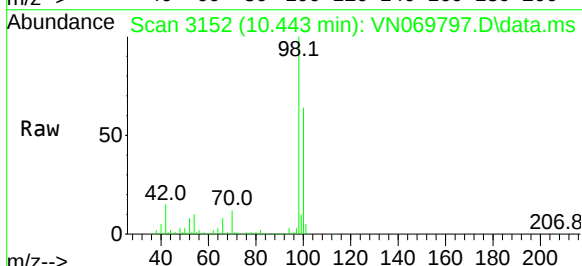
Acq: 6 Dec 2021 21:02

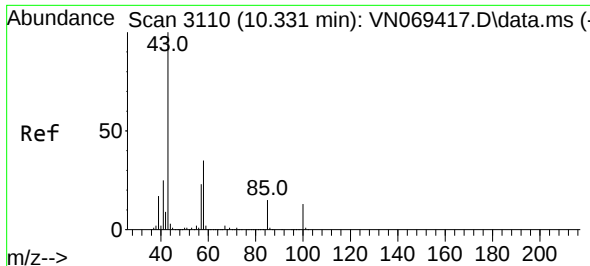
Tgt Ion: 98 Resp: 2996756

Ion Ratio Lower Upper

98 100

100 63.5 50.4 75.6

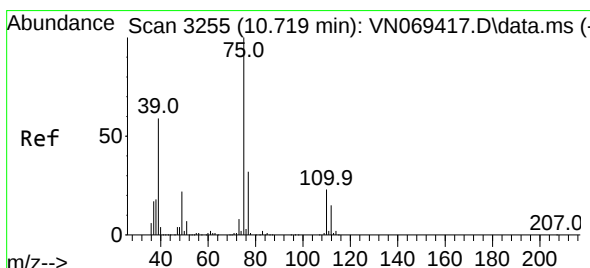
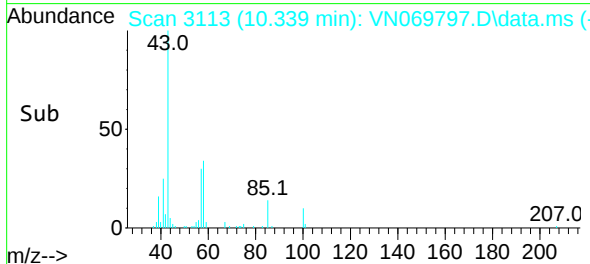
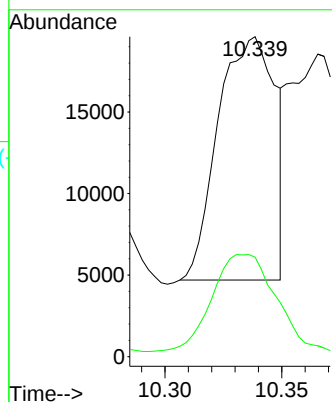
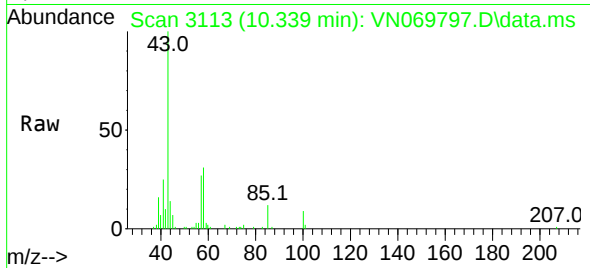




#51
4-Methyl-2-Pentanone
Concen: 0.801 ug/l
RT: 10.339 min Scan# 3110
Delta R.T. 0.006 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

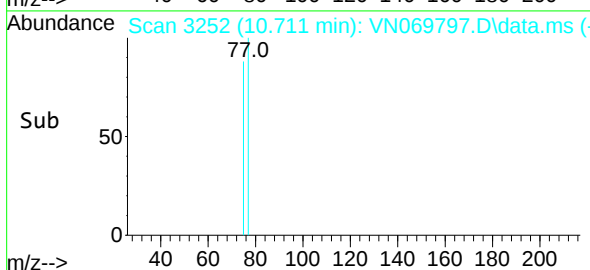
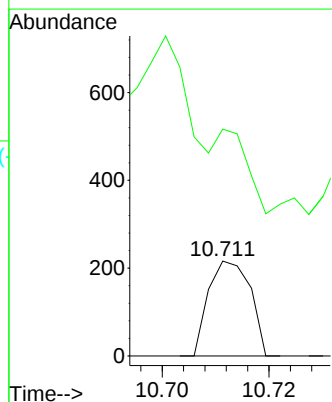
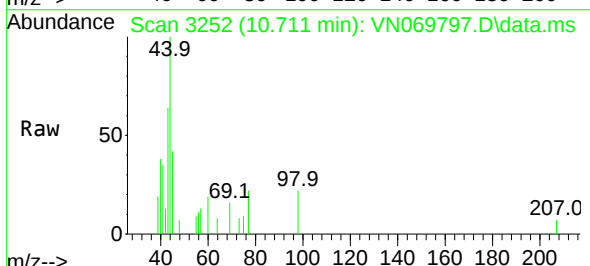
Instrument :
MSVOA_N
ClientSampleId :

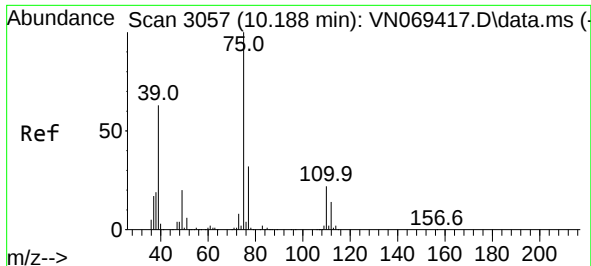
Tgt Ion: 43 Resp: 25259
Ion Ratio Lower Upper
43 100
58 47.3 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 2.798 ug/l
RT: 10.711 min Scan# 3252
Delta R.T. -0.008 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Tgt Ion: 75 Resp: 117
Ion Ratio Lower Upper
75 100
77 79.2 25.6 38.4#

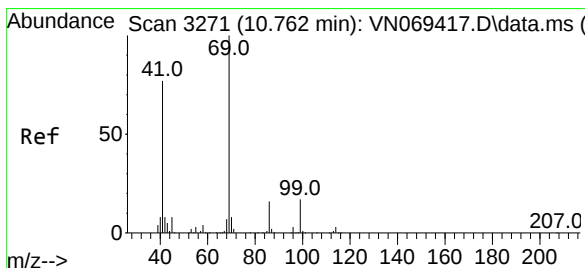
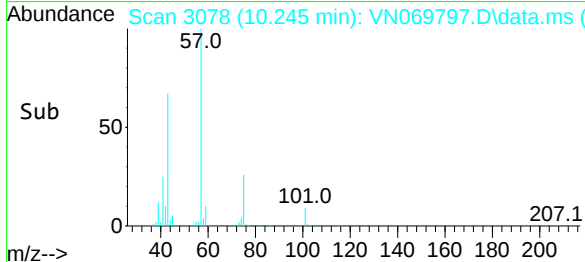
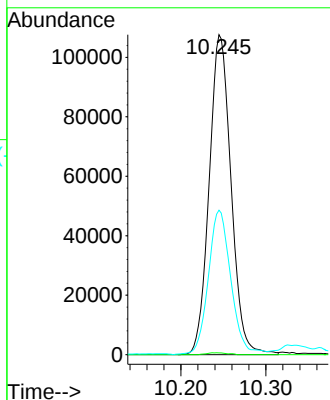
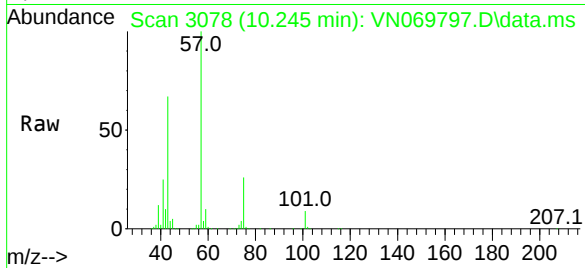




#54
cis-1,3-Dichloropropene
Concen: 8.502 ug/l
RT: 10.245 min Scan# 3057
Delta R.T. 0.054 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

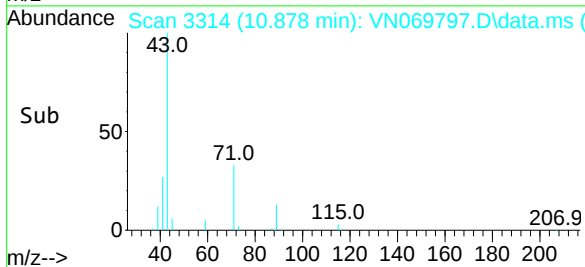
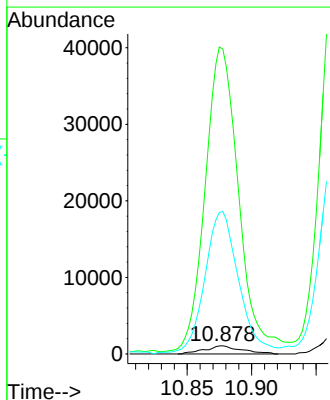
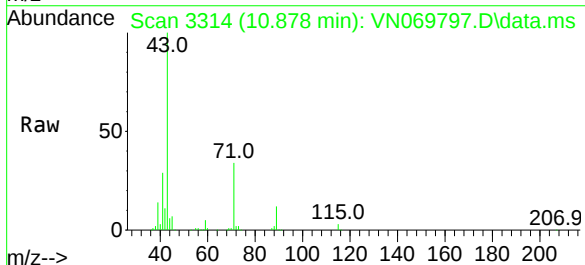
Instrument :
MSVOA_N
ClientSampleId :

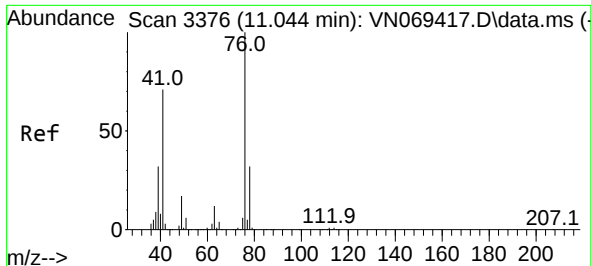
Tgt Ion: 75 Resp: 192393
Ion Ratio Lower Upper
75 100
77 0.6 26.4 39.6#
39 44.9 42.5 63.7



#56
Ethyl methacrylate
Concen: 2.344 ug/l
RT: 10.878 min Scan# 3314
Delta R.T. 0.116 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Tgt Ion: 69 Resp: 2126
Ion Ratio Lower Upper
69 100
41 3376.4 51.4 77.0#
39 1607.1 34.6 52.0#





#57

1,3-Dichloropropane

Concen: 3.586 ug/l

RT: 11.092 min Scan# 31

Delta R.T. 0.046 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

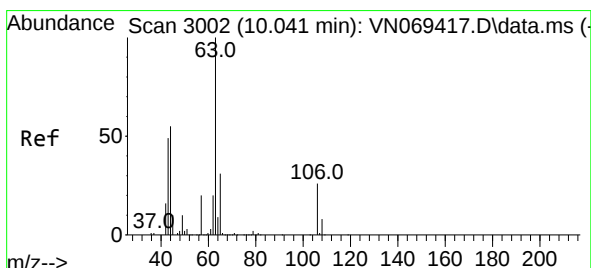
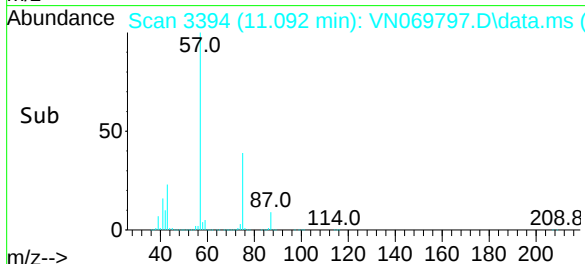
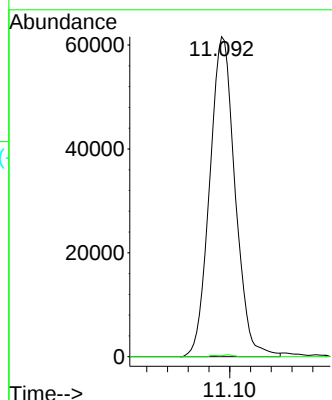
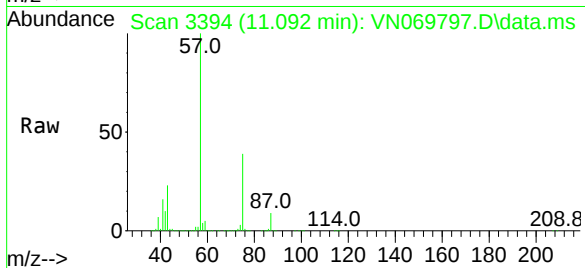
ClientSampleId :

Tgt Ion: 76 Resp: 104946

Ion Ratio Lower Upper

76 100

78 0.2 25.7 38.5#



#58

2-Chloroethyl Vinyl ether

Concen: 18.392 ug/l

RT: 10.030 min Scan# 2998

Delta R.T. -0.013 min

Lab File: VN069797.D

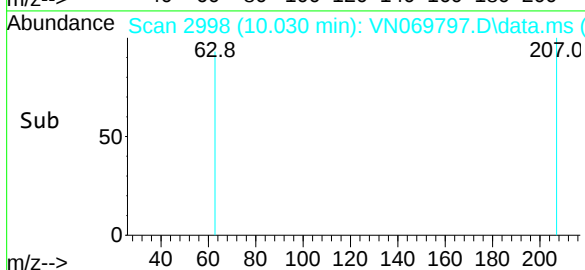
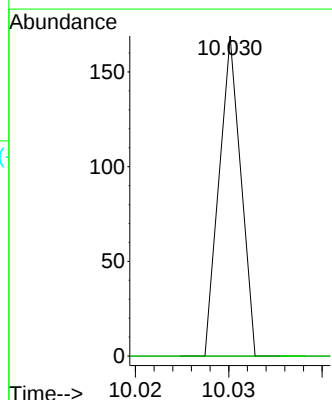
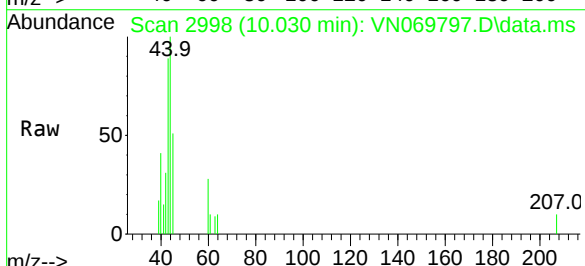
Acq: 6 Dec 2021 21:02

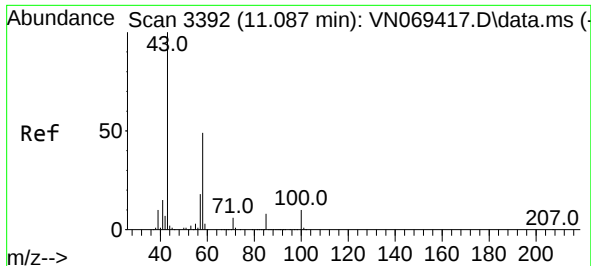
Tgt Ion: 63 Resp: 27

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

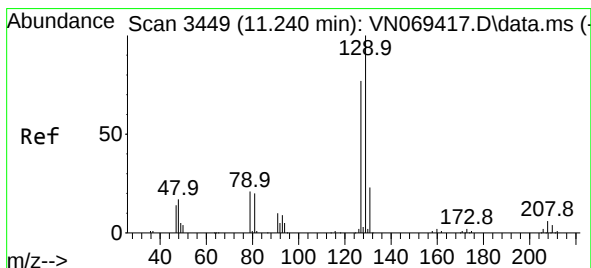
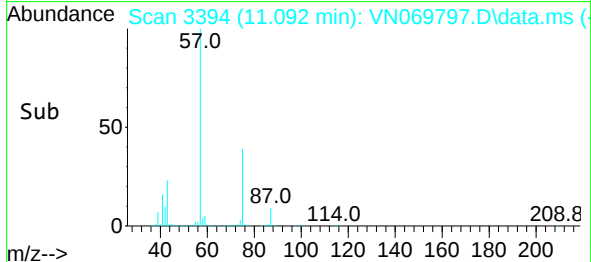
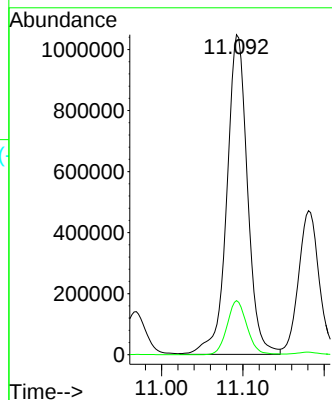
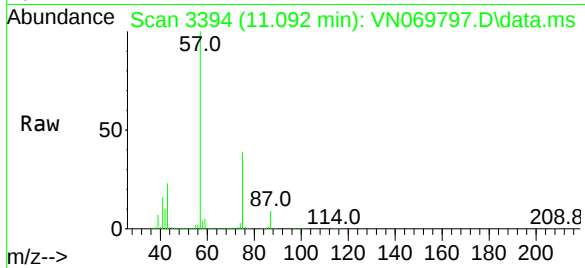




#59
2-Hexanone
Concen: 77.703 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

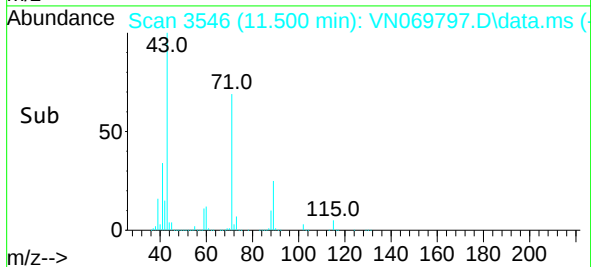
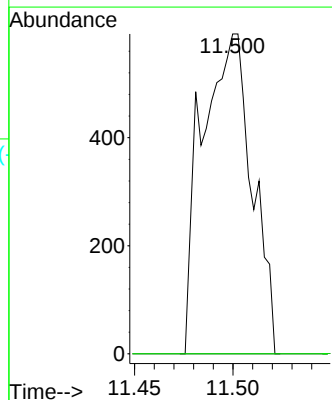
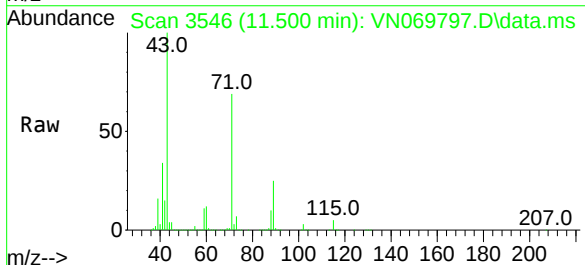
Instrument :
MSVOA_N
ClientSampleId :

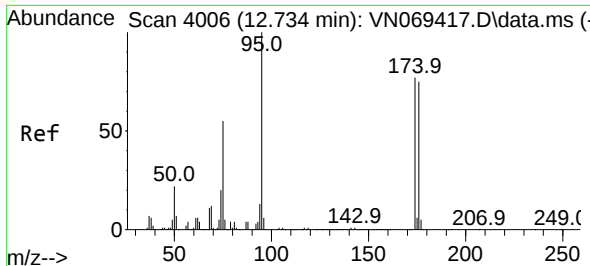
Tgt Ion: 43 Resp: 1853928
Ion Ratio Lower Upper
43 100
58 16.3 26.9 80.7#



#60
Dibromochloromethane
Concen: 2.432 ug/l
RT: 11.500 min Scan# 3546
Delta R.T. 0.260 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Tgt Ion:129 Resp: 1042
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

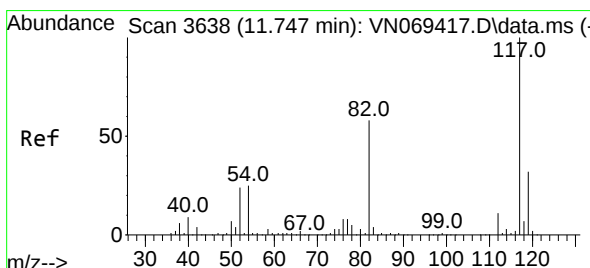
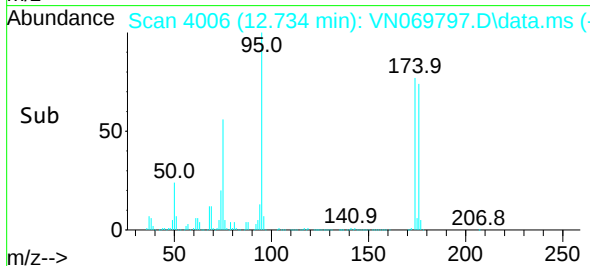
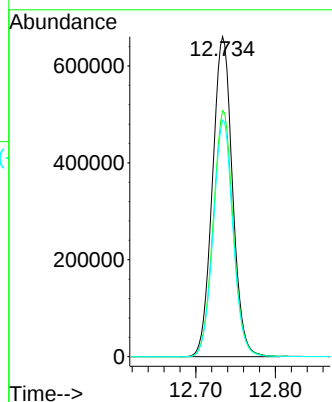
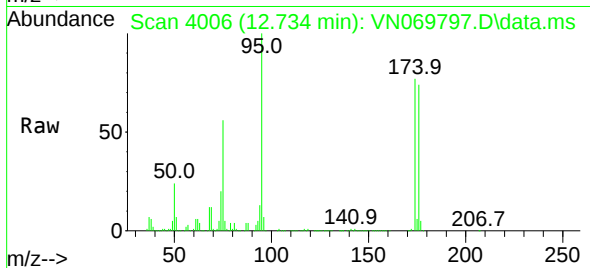




#62
4-Bromofluorobenzene
Concen: 54.751 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

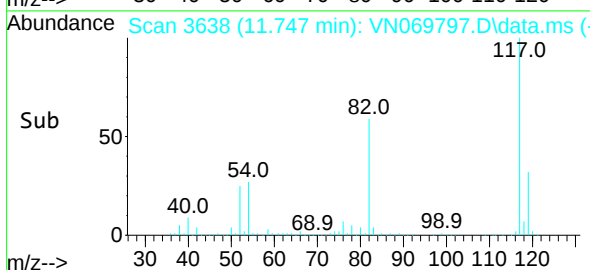
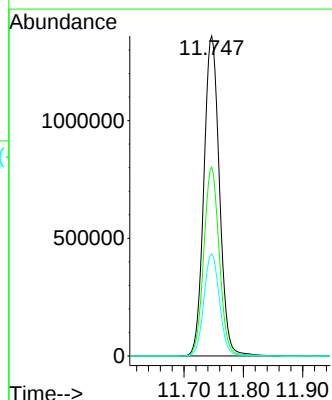
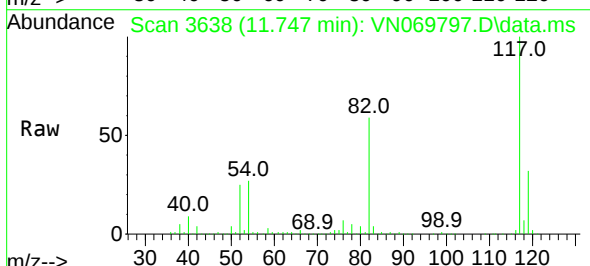
Instrument :
MSVOA_N
ClientSampleId :

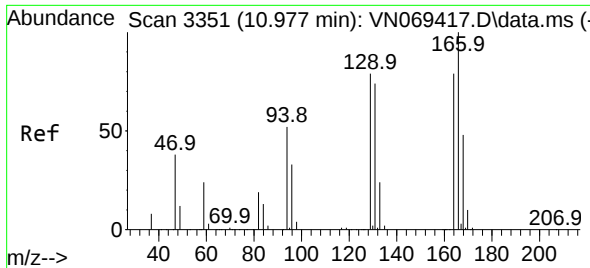
Tgt Ion: 95 Resp: 1156768
Ion Ratio Lower Upper
95 100
174 76.8 0.0 187.2
176 73.1 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

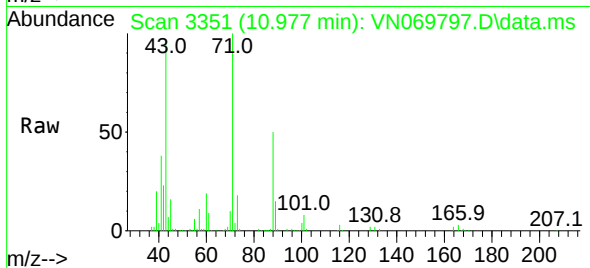
Tgt Ion: 117 Resp: 2471117
Ion Ratio Lower Upper
117 100
82 59.1 42.4 63.6
119 31.9 25.4 38.2



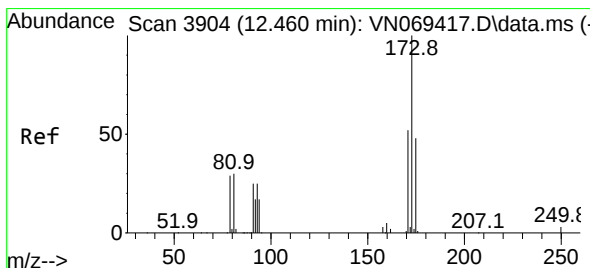
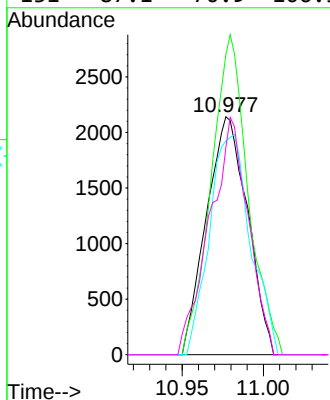
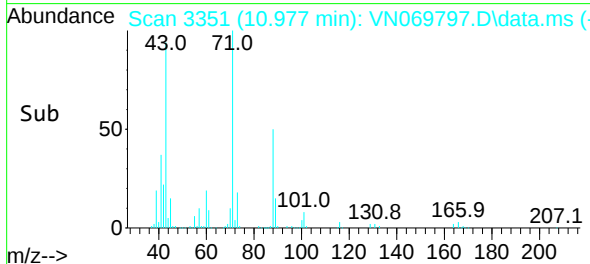


#64
Tetrachloroethene
Concen: 0.225 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.002 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Instrument :
MSVOA_N
ClientSampleId :

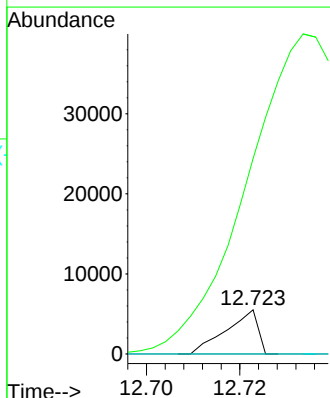
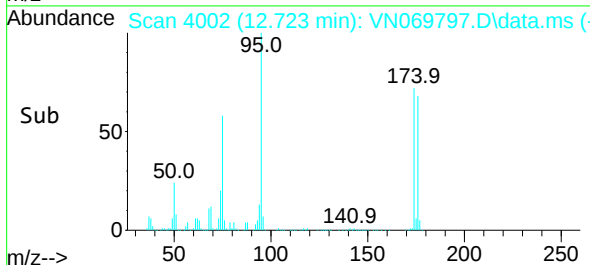
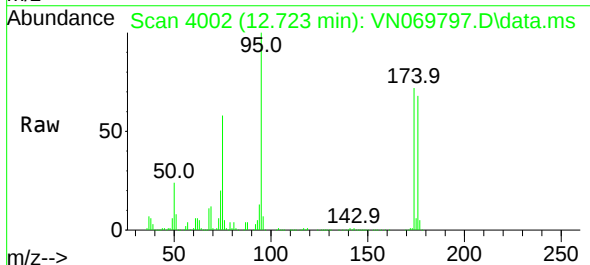


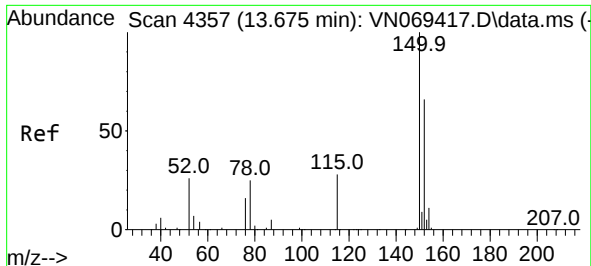
Tgt Ion:164 Resp: 3764
Ion Ratio Lower Upper
164 100
166 126.2 101.9 152.9
129 89.8 72.0 108.0
131 87.1 70.9 106.3



#71
Bromoform
Concen: 2.894 ug/l
RT: 12.723 min Scan# 4002
Delta R.T. 0.263 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

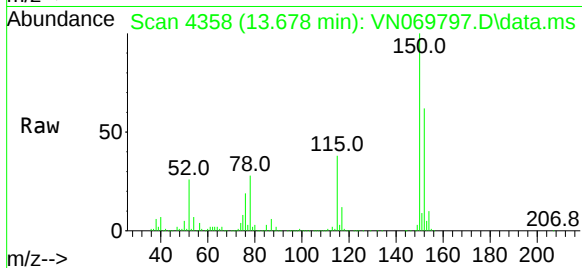
Tgt Ion:173 Resp: 2605
Ion Ratio Lower Upper
173 100
175 2437.6 24.2 72.6#
254 0.0 0.0 0.0



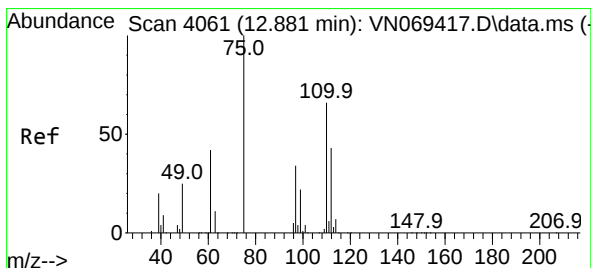
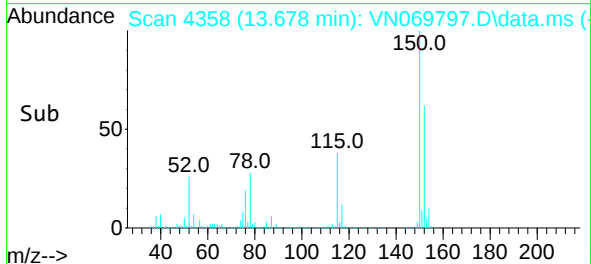
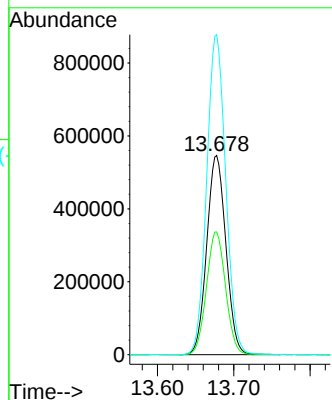


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

Instrument :
MSVOA_N
ClientSampleId :

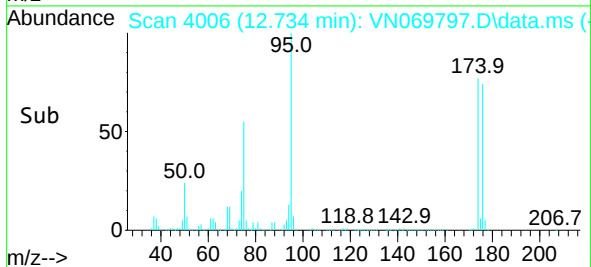
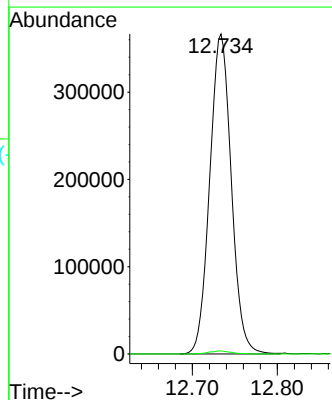
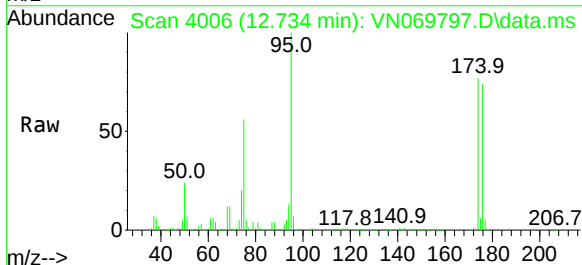


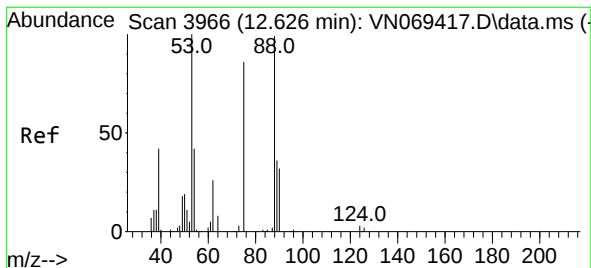
Tgt Ion:152 Resp: 954096
Ion Ratio Lower Upper
152 100
115 61.4 27.5 82.5
150 159.1 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 23.587 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

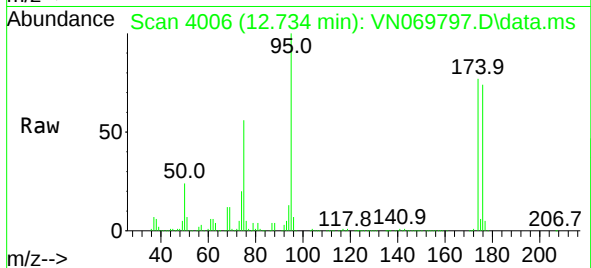
Tgt Ion: 75 Resp: 645367
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



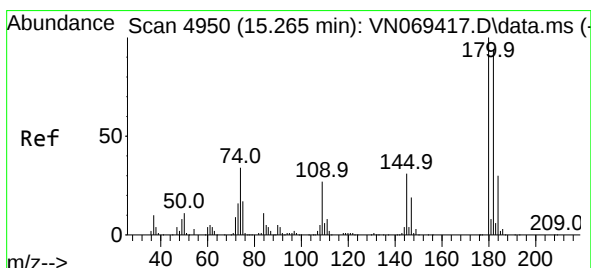
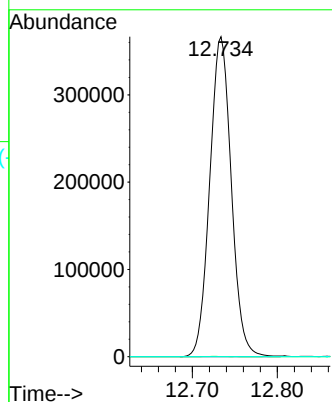
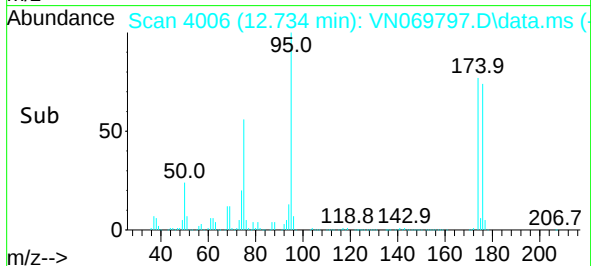


#81
trans-1,4-Dichloro-2-butene
Concen: 74.988 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02

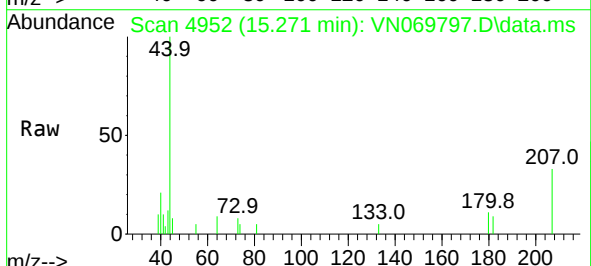
Instrument :
MSVOA_N
ClientSampleId :



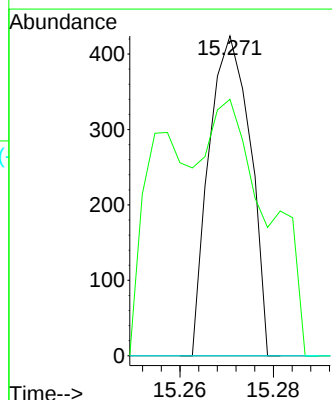
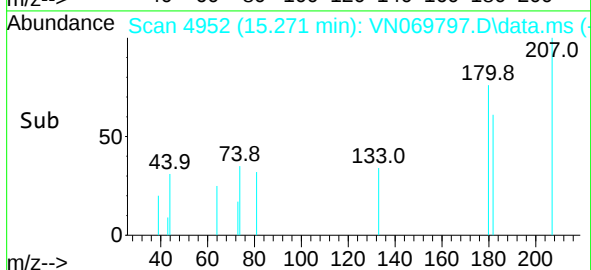
Tgt Ion: 75 Resp: 645367
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

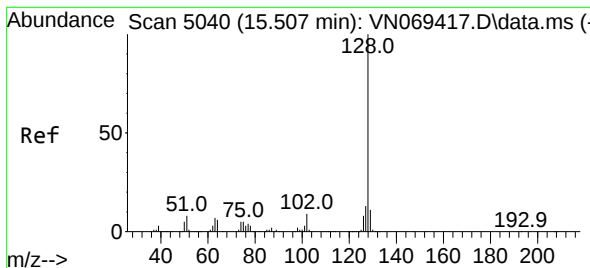


#93
1,2,4-Trichlorobenzene
Concen: 2.894 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN069797.D
Acq: 6 Dec 2021 21:02



Tgt Ion: 180 Resp: 259
Ion Ratio Lower Upper
180 100
182 122.4 48.3 144.9
145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 4.089 ug/l

RT: 15.509 min Scan# 5040

Delta R.T. 0.002 min

Lab File: VN069797.D

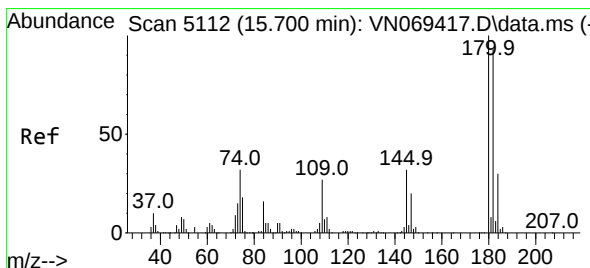
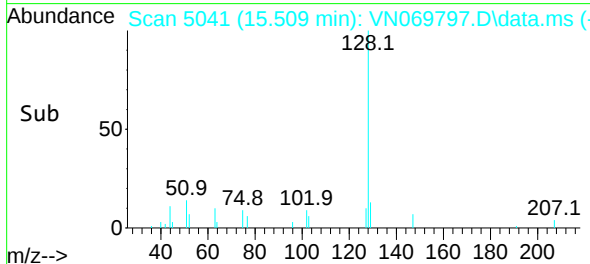
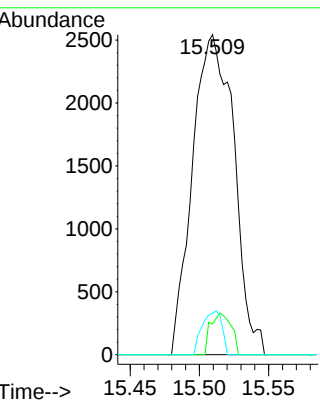
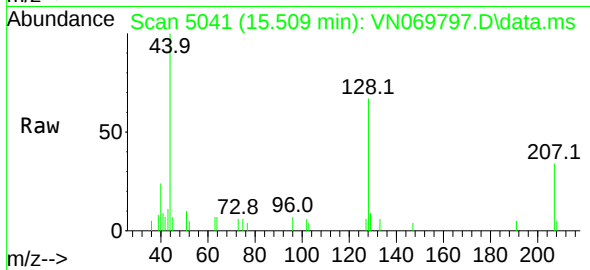
Acq: 6 Dec 2021 21:02

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	5286
Ion Ratio	Lower	Upper
128	100	
127	6.5	10.5 15.7#
129	6.5	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 2.453 ug/l

RT: 15.705 min Scan# 5114

Delta R.T. 0.003 min

Lab File: VN069797.D

Acq: 6 Dec 2021 21:02

Tgt Ion:180	Resp:	279
Ion Ratio	Lower	Upper
180	100	
182	143.0	47.4 142.2#
145	21.5	15.0 45.1

