

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069629.D
 Acq On : 23 Nov 2021 16:23
 Operator : JC/MD
 Sample : M4820-03 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 24 02:27:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

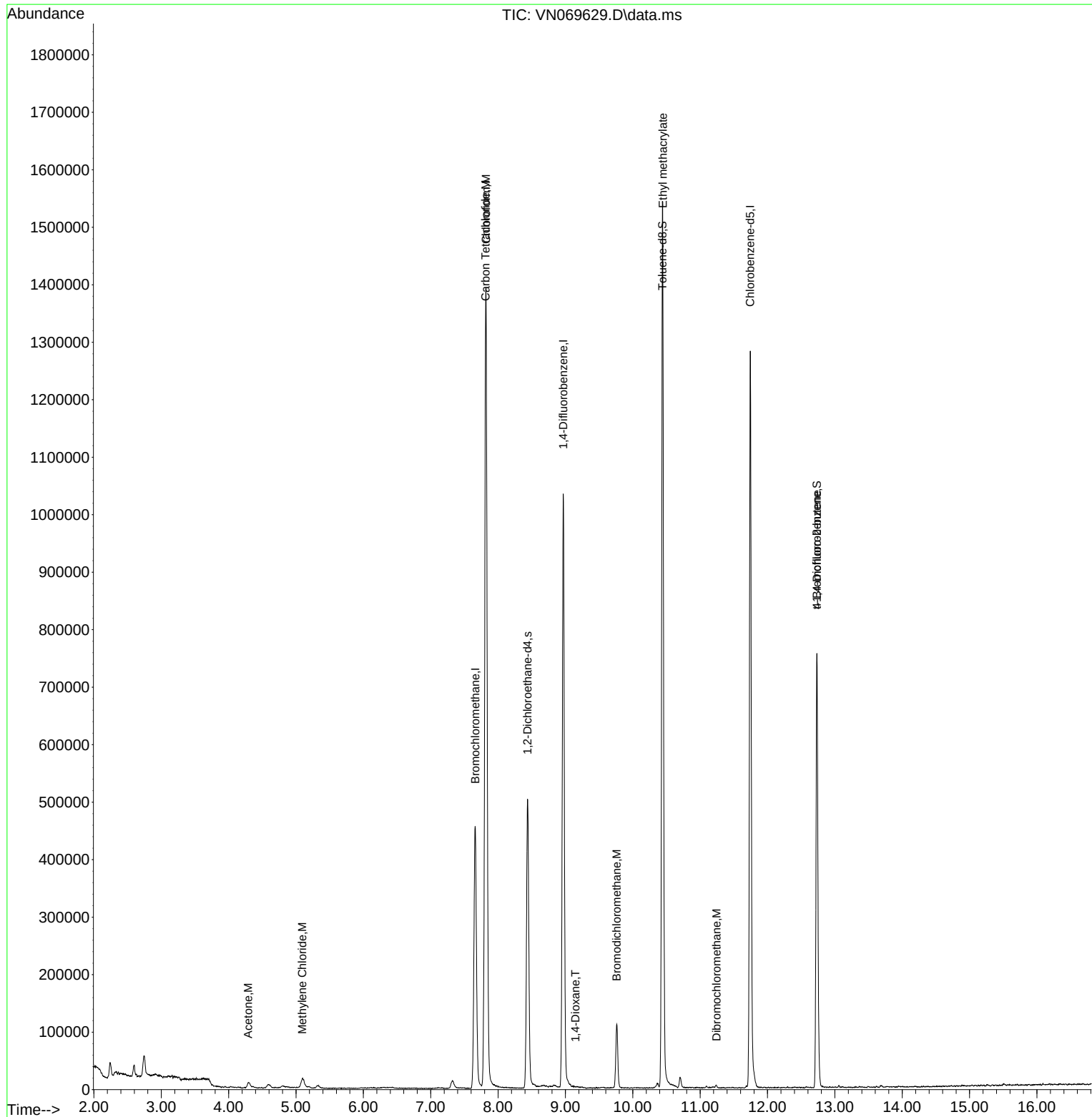
Internal Standards						
1) Bromochloromethane	7.662	128	160653	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	871954	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	737874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	436376	31.319	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.400%	
60) 4-Bromofluorobenzene	12.733	95	279344	23.657	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 78.867%	
63) Toluene-d8	10.440	98	1063845	31.226	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.100%	
Target Compounds						
					Qvalue	
15) Acetone	4.291	58	2007	0.955	ug/l	81
18) Methylene Chloride	5.093	84	5228	0.511	ug/l	86
25) Chloroform	7.820	83	1349762	70.376	ug/l	99
33) Carbon Tetrachloride	7.812	117	5622	0.438	ug/l #	83
41) Bromodichloromethane	9.759	83	74960	5.562	ug/l	94
45) 1,4-Dioxane	9.148	88	52	0.230	ug/l #	1
51) Ethyl methacrylate	10.446	69	4684	0.274	ug/l	81
53) Dibromochloromethane	11.242	129	2126	0.218	ug/l	84
77) t-1,4-Dichloro-2-butene	12.733	75	157168	41.496	ug/l #	8

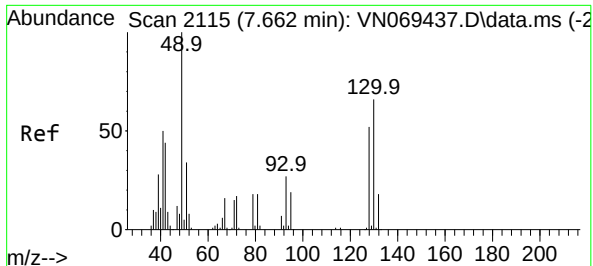
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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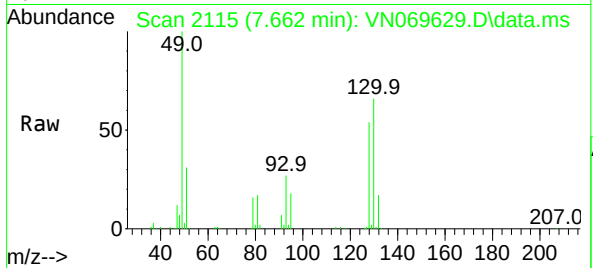
Quant Time: Nov 24 02:27:04 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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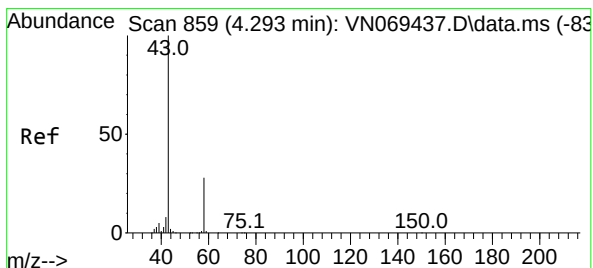
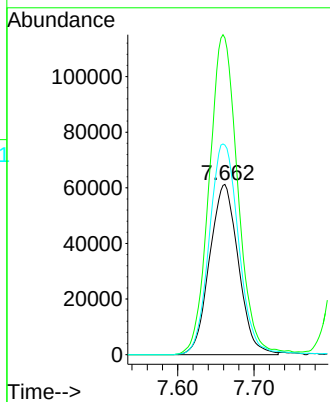
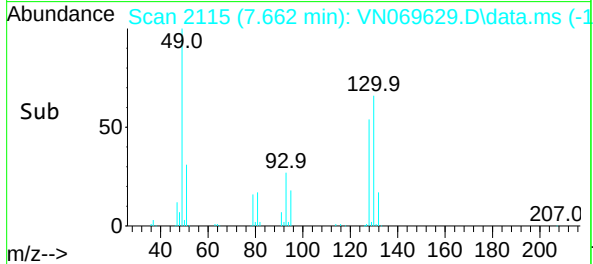


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Instrument :
MSVOA_N
ClientSampleId :

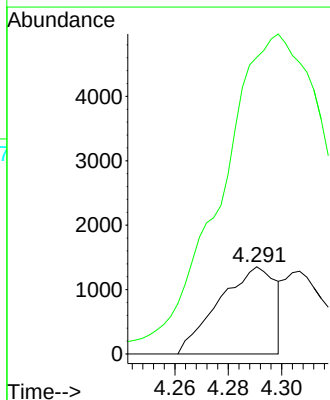
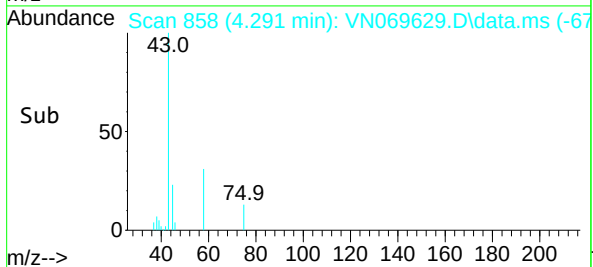
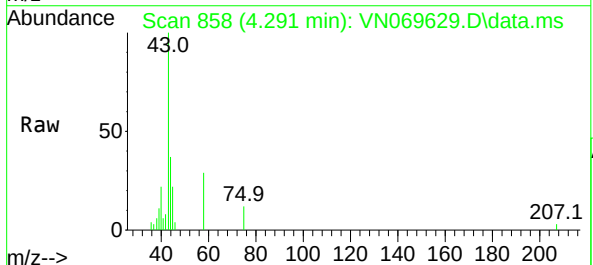


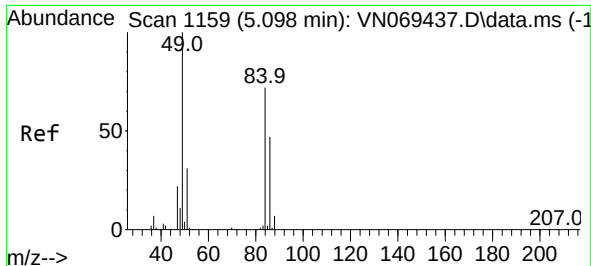
Tgt Ion:128 Resp: 160653
Ion Ratio Lower Upper
128 100
49 185.0 0.0 392.3
130 126.5 0.0 320.2



#15
Acetone
Concen: 0.955 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Tgt Ion: 58 Resp: 2007
Ion Ratio Lower Upper
58 100
43 282.6 256.6 384.8





#18

Methylene Chloride

Concen: 0.511 ug/l

RT: 5.093 min Scan# 1159

Delta R.T. -0.008 min

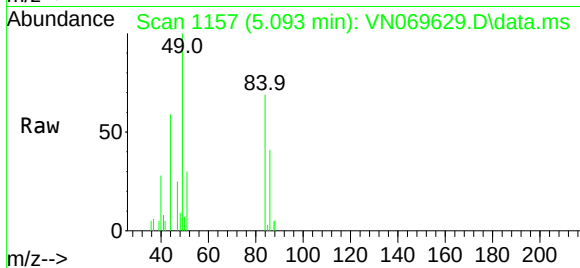
Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 5228

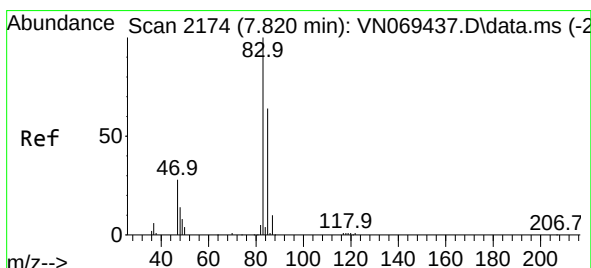
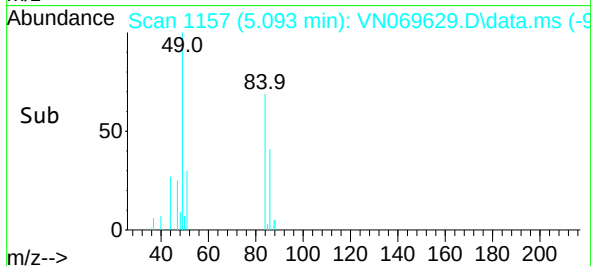
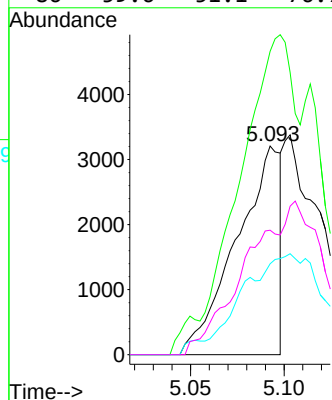
Ion Ratio Lower Upper

84 100

49 135.0 91.4 137.0

51 43.6 29.4 44.0

86 59.6 51.1 76.7



#25

Chloroform

Concen: 70.376 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.000 min

Lab File: VN069629.D

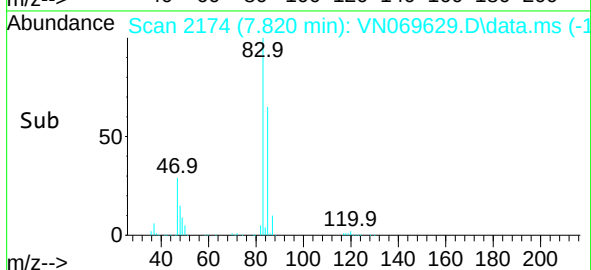
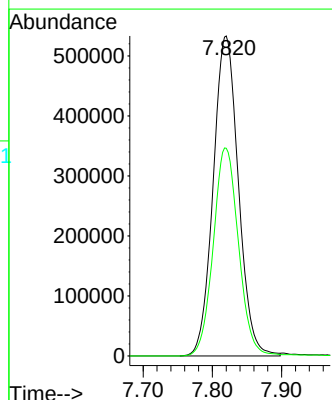
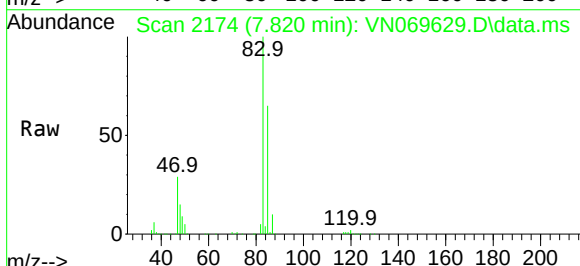
Acq: 23 Nov 2021 16:23

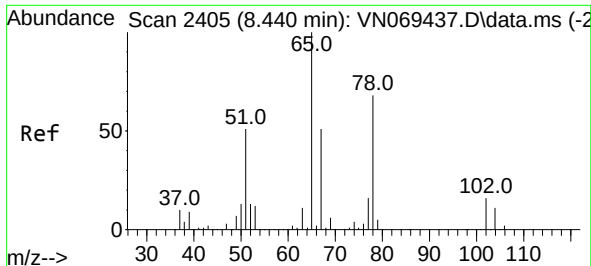
Tgt Ion: 83 Resp: 1349762

Ion Ratio Lower Upper

83 100

85 64.9 51.3 76.9





#27

1,2-Dichloroethane-d4

Concen: 31.319 ug/l

RT: 8.437 min Scan# 2405

Delta R.T. -0.003 min

Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

Instrument :

MSVOA_N

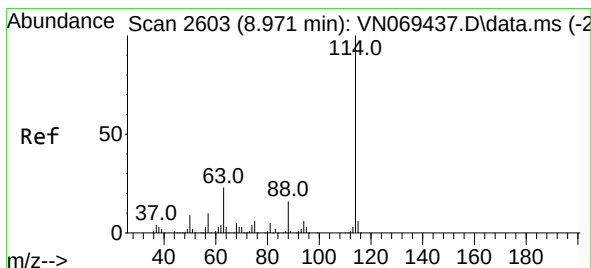
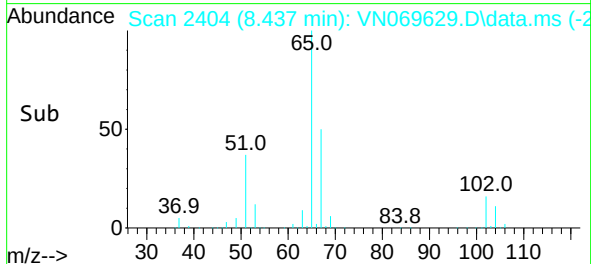
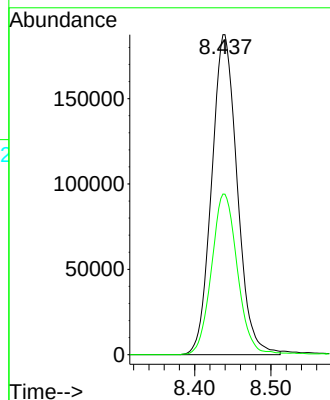
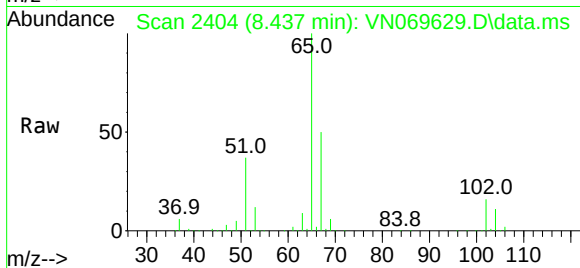
ClientSampleId :

Tgt Ion: 65 Resp: 436376

Ion Ratio Lower Upper

65 100

67 50.5 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.003 min

Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

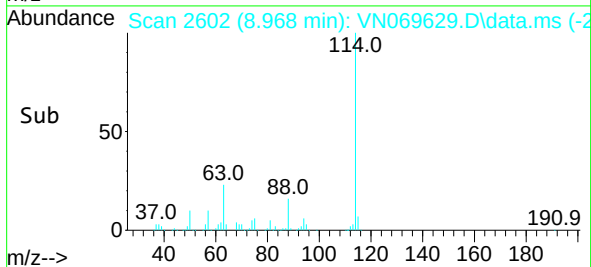
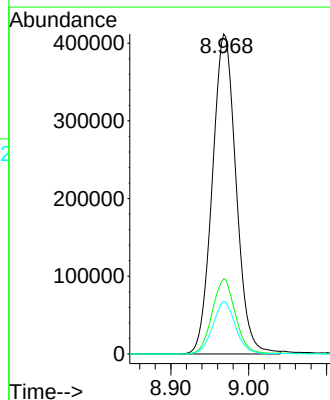
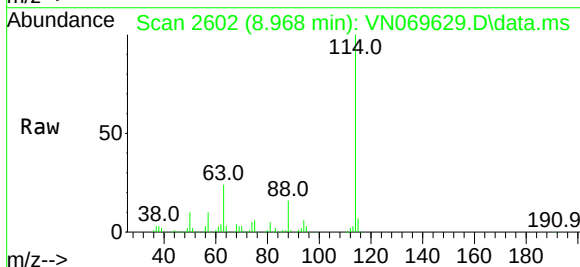
Tgt Ion: 114 Resp: 871954

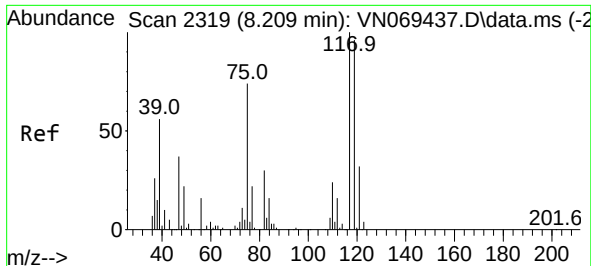
Ion Ratio Lower Upper

114 100

63 22.9 15.8 23.6

88 15.7 11.6 17.4

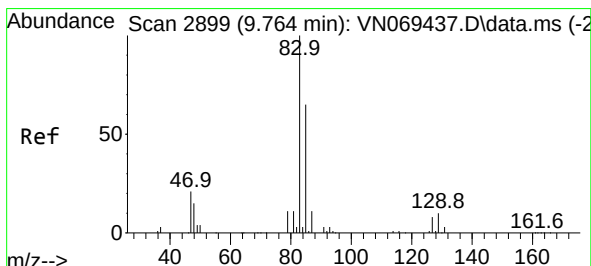
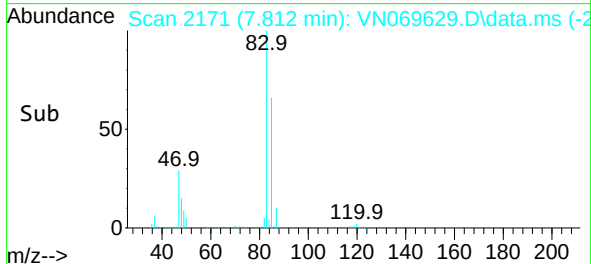
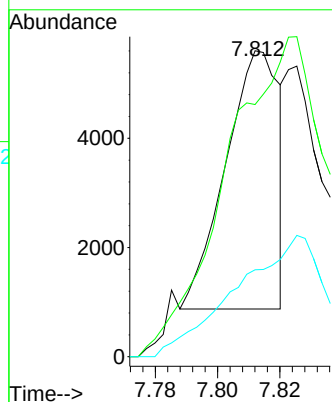
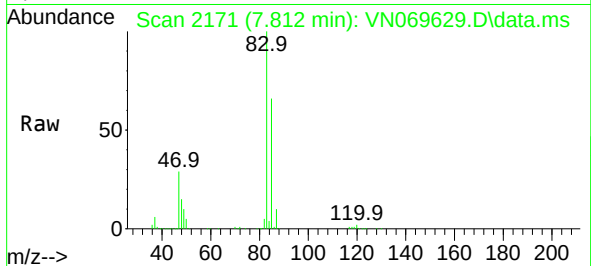




#33
Carbon Tetrachloride
Concen: 0.438 ug/l
RT: 7.812 min Scan# 2117
Delta R.T. -0.397 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

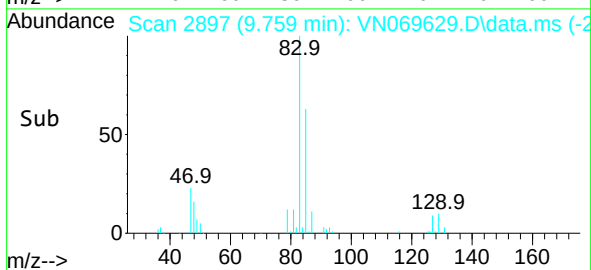
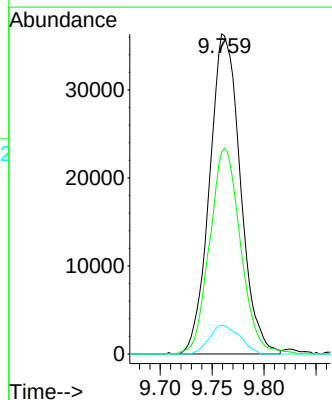
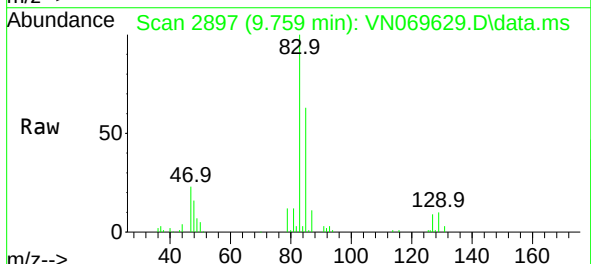
Instrument :
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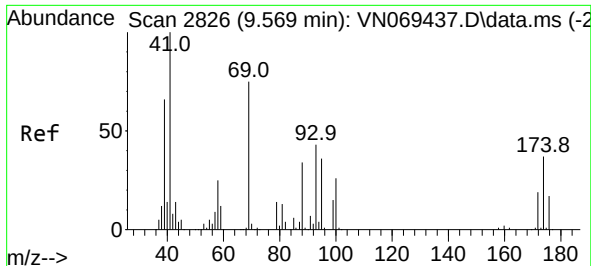
Tgt Ion:117 Resp: 5622
Ion Ratio Lower Upper
117 100
119 76.6 77.5 116.3#
121 26.1 23.5 35.3



#41
Bromodichloromethane
Concen: 5.562 ug/l
RT: 9.759 min Scan# 2897
Delta R.T. -0.005 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

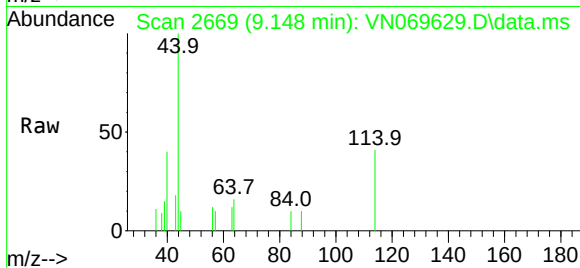
Tgt Ion: 83 Resp: 74960
Ion Ratio Lower Upper
83 100
85 62.5 54.1 81.1
127 8.9 7.6 11.4



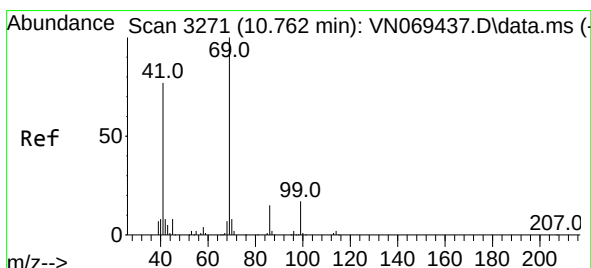
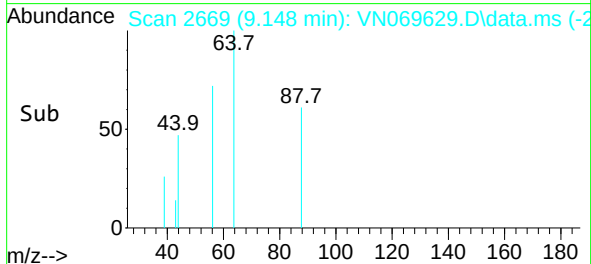
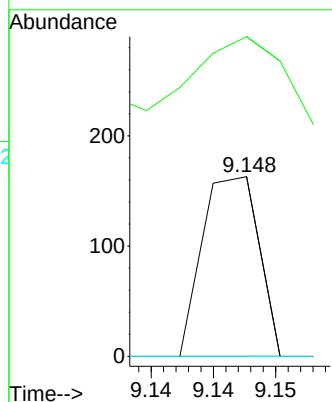


#45
1,4-Dioxane
Concen: 0.230 ug/l
RT: 9.148 min Scan# 21
Delta R.T. -0.421 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Instrument :
MSVOA_N
ClientSampleId :

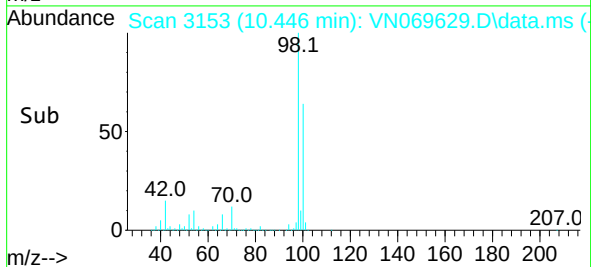
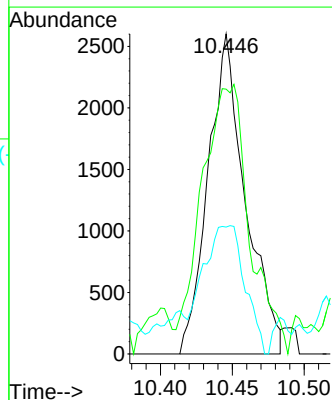
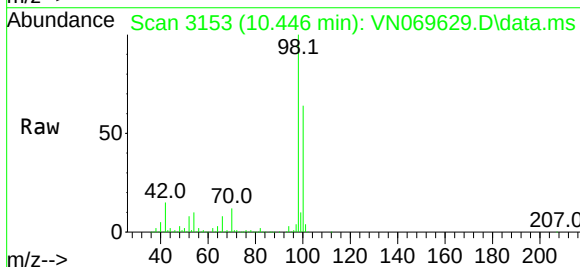


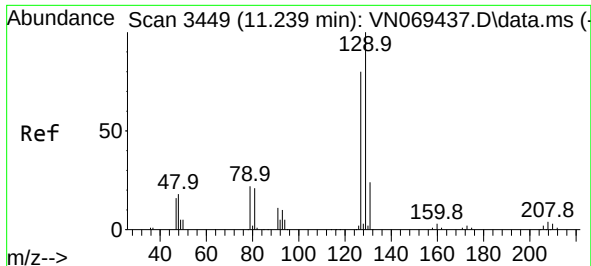
Tgt Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
43 275.0 25.0 37.6#
58 0.0 49.4 74.2#



#51
Ethyl methacrylate
Concen: 0.274 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.316 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Tgt Ion: 69 Resp: 4684
Ion Ratio Lower Upper
69 100
41 72.9 33.0 98.9
39 28.3 25.4 76.4

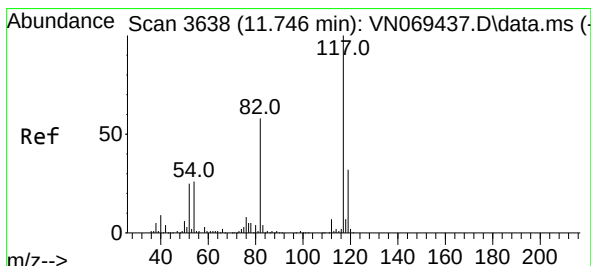
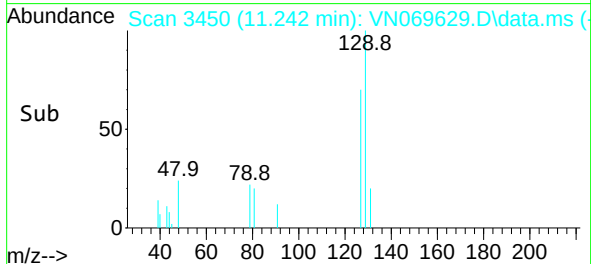
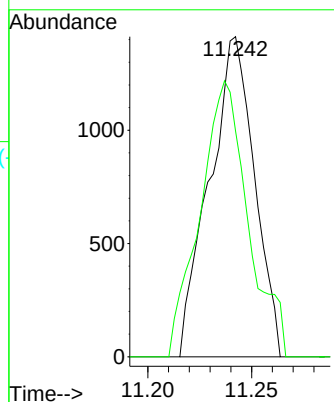
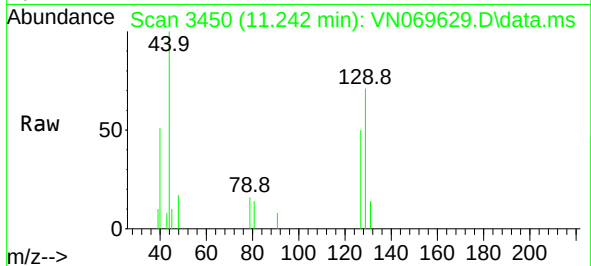




#53
Dibromochloromethane
Concen: 0.218 ug/l
RT: 11.242 min Scan# 3449
Delta R.T. 0.003 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

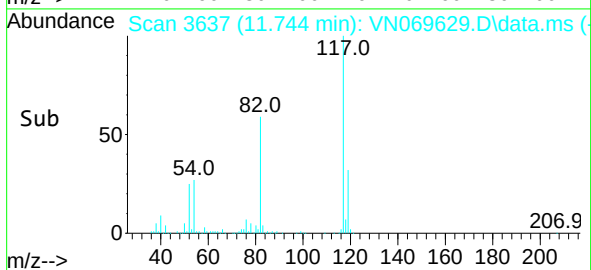
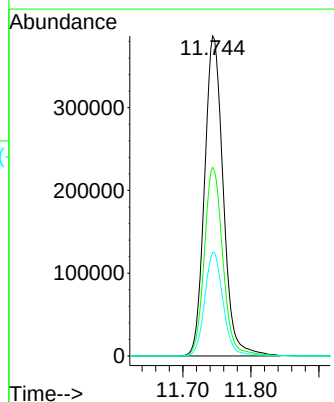
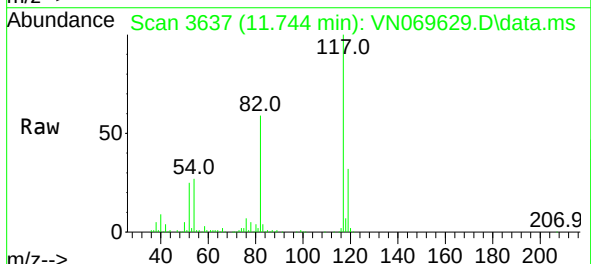
Instrument :
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ClientSampleId :

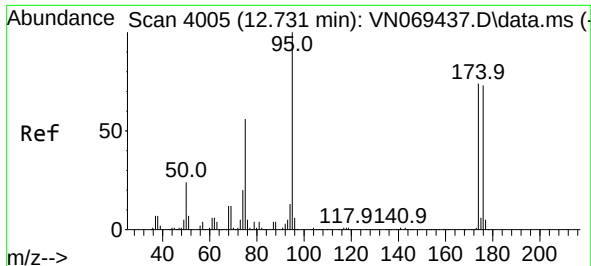
Tgt Ion:129 Resp: 2126
Ion Ratio Lower Upper
129 100
127 92.1 39.0 117.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.003 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

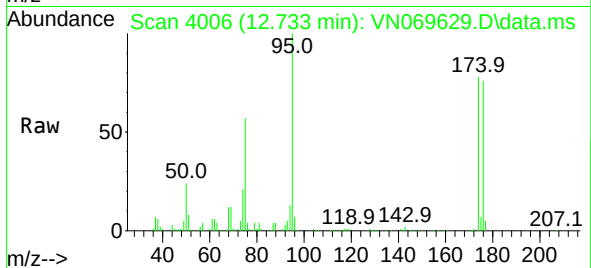
Tgt Ion:117 Resp: 737874
Ion Ratio Lower Upper
117 100
82 58.7 43.6 65.4
119 32.0 25.8 38.6



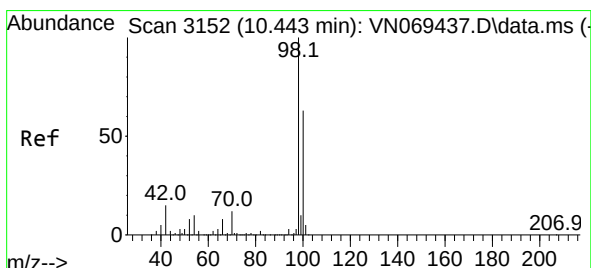
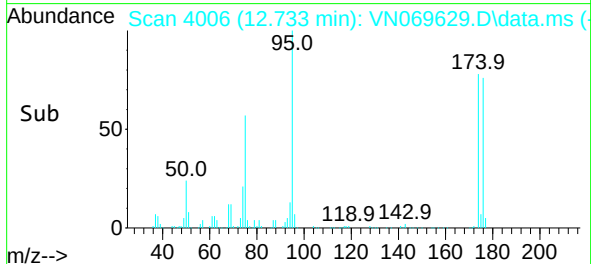
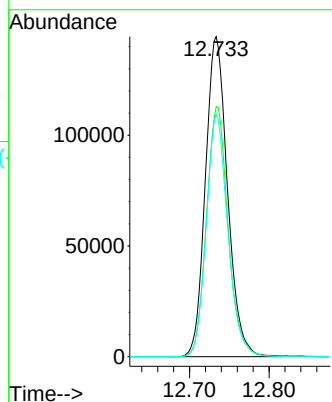


#60
4-Bromofluorobenzene
Concen: 23.657 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Instrument :
MSVOA_N
ClientSampleId :

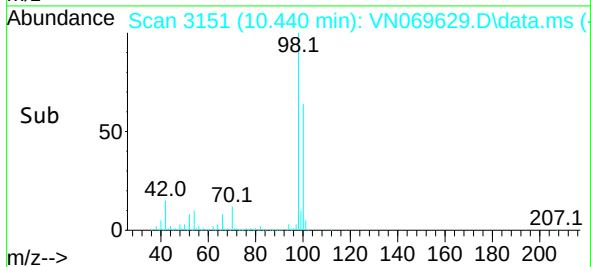
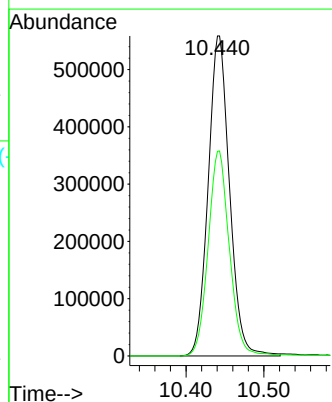
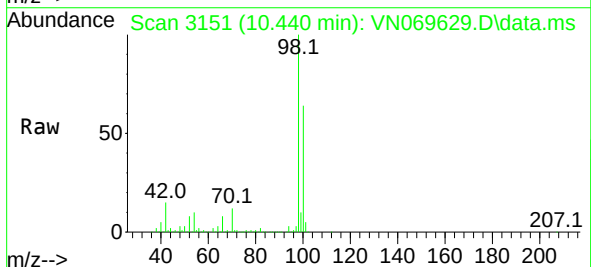


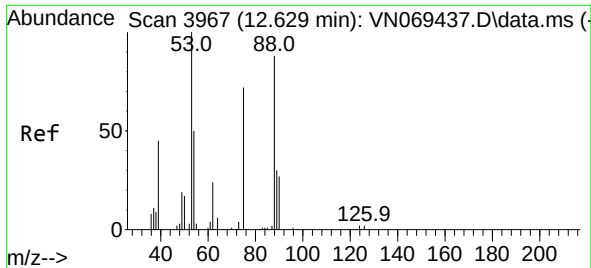
Tgt Ion: 95 Resp: 279344
Ion Ratio Lower Upper
95 100
174 76.5 62.9 94.3
176 73.8 61.0 91.4



#63
Toluene-d8
Concen: 31.226 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VN069629.D
Acq: 23 Nov 2021 16:23

Tgt Ion: 98 Resp: 1063845
Ion Ratio Lower Upper
98 100
100 63.6 50.6 76.0





#77

t-1,4-Dichloro-2-butene

Concen: 41.496 ug/l

RT: 12.733 min Scan# 40

Delta R.T. 0.105 min

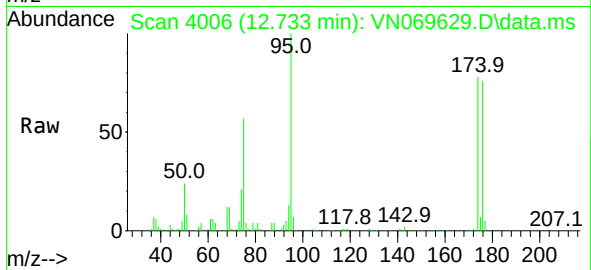
Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 157168

Ion Ratio Lower Upper

75 100

53 0.0 51.8 155.5#

89 0.0 22.9 68.7#

