

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069628.D
 Acq On : 23 Nov 2021 15:57
 Operator : JC/MD
 Sample : M4820-02 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 24 02:26:56 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)

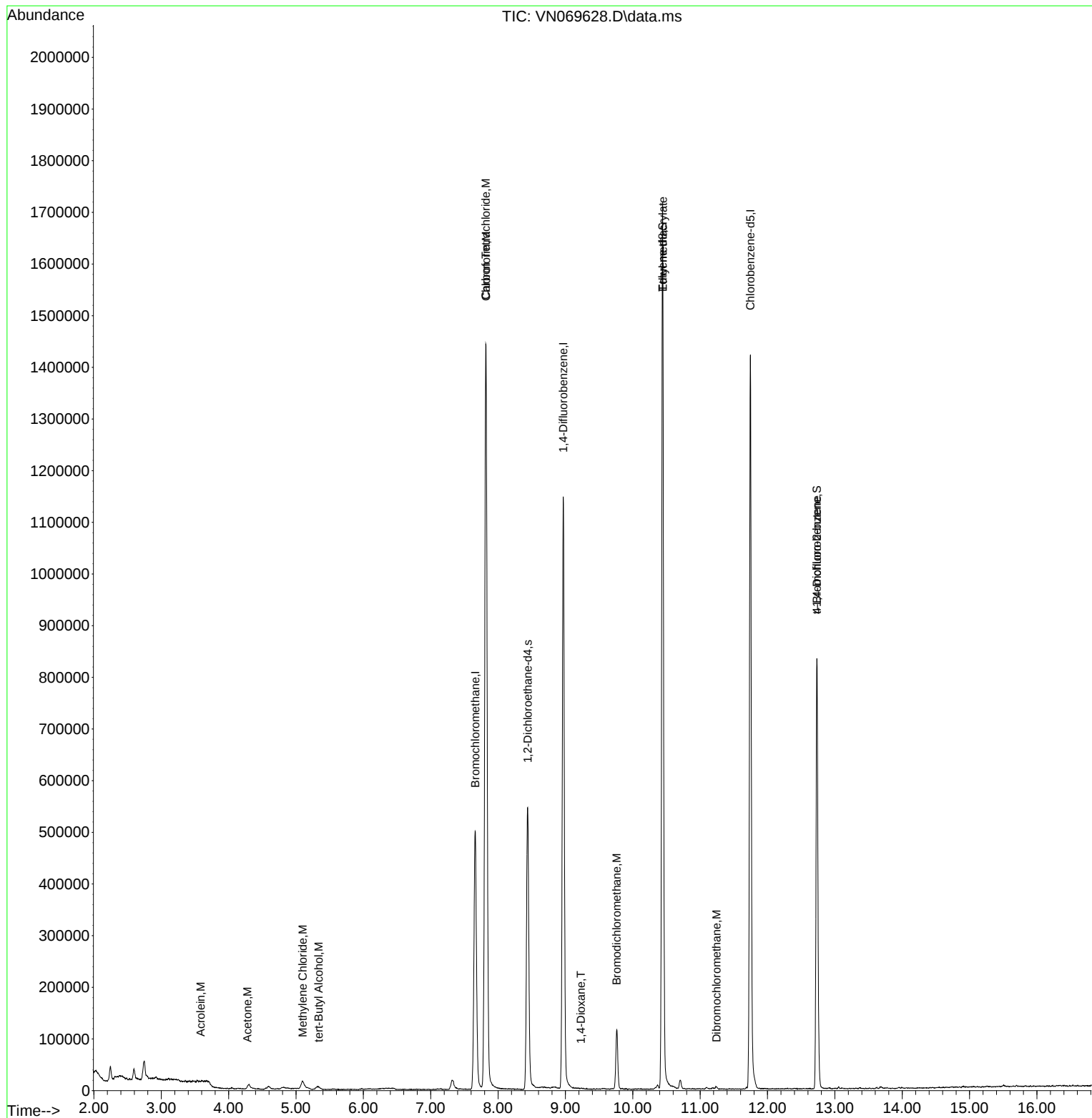
Internal Standards						
1) Bromochloromethane	7.662	128	173143	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	961350	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	814442	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	484781	32.284	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.600%
60) 4-Bromofluorobenzene	12.733	95	305228	23.419	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.067%
63) Toluene-d8	10.443	98	1167645	31.050	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.500%
Target Compounds						
					Qvalue	
13) Acrolein	3.585	56	185	0.270	ug/l	94
15) Acetone	4.277	58	845	0.373	ug/l #	65
18) Methylene Chloride	5.101	84	6129	0.556	ug/l #	90
23) tert-Butyl Alcohol	5.337	59	1036	0.438	ug/l #	100
25) Chloroform	7.820	83	1412539	68.337	ug/l	100
33) Carbon Tetrachloride	7.817	117	14356	1.015	ug/l	87
41) Bromodichloromethane	9.762	83	78280	5.269	ug/l #	92
45) 1,4-Dioxane	9.231	88	51	0.205	ug/l #	1
51) Ethyl methacrylate	10.446	69	3902	0.207	ug/l	84
53) Dibromochloromethane	11.242	129	2348	0.219	ug/l	70
77) t-1,4-Dichloro-2-butene	12.733	75	172344	41.225	ug/l #	8

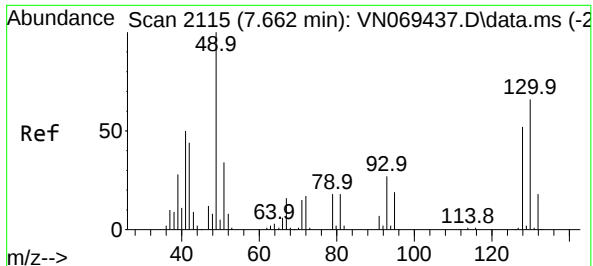
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration

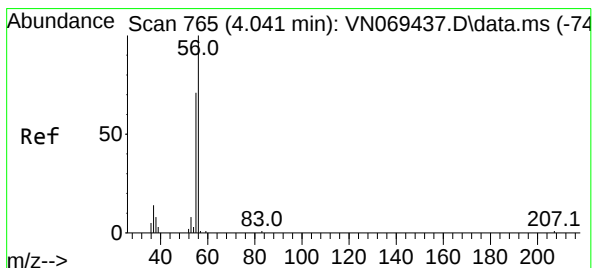
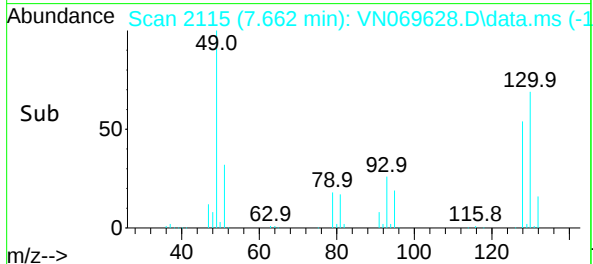
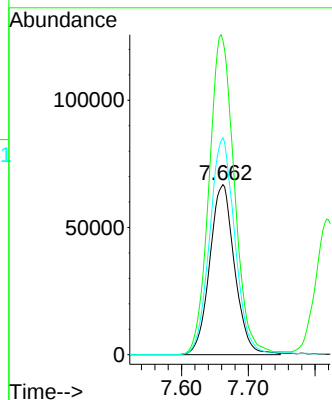
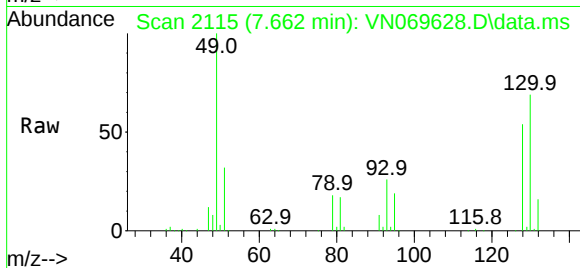




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

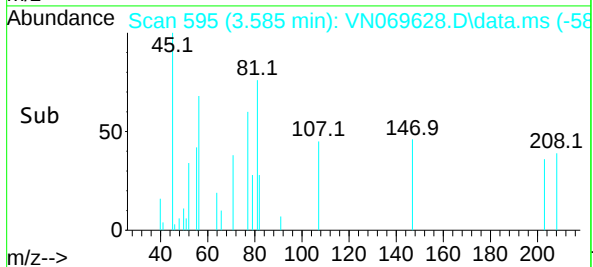
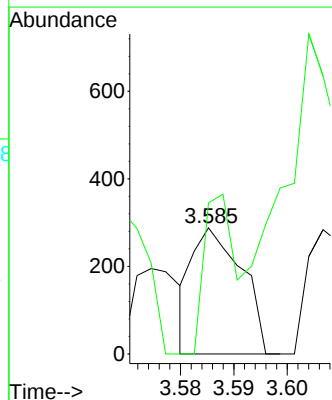
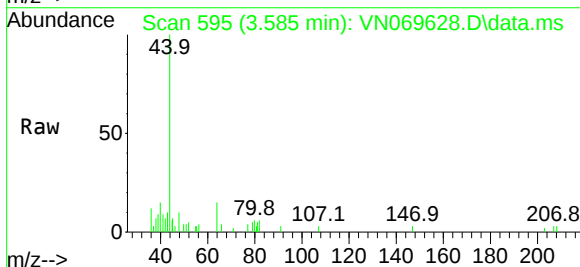
Instrument :
MSVOA_N
ClientSampleId :

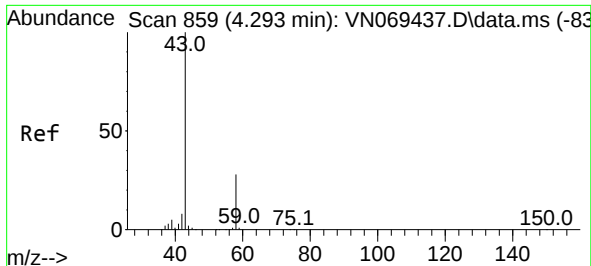
Tgt Ion:128 Resp: 173143
Ion Ratio Lower Upper
128 100
49 191.0 0.0 392.3
130 128.9 0.0 320.2



#13
Acrolein
Concen: 0.270 ug/l
RT: 3.585 min Scan# 595
Delta R.T. -0.461 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Tgt Ion: 56 Resp: 185
Ion Ratio Lower Upper
56 100
55 76.8 57.6 86.4

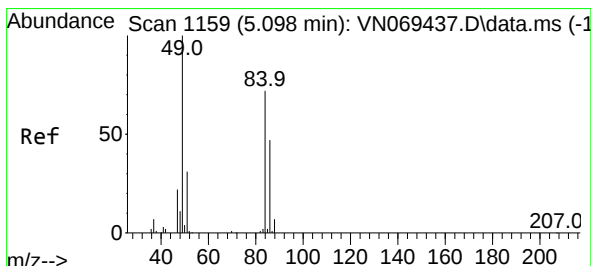
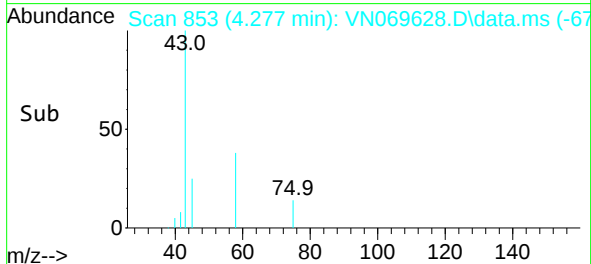
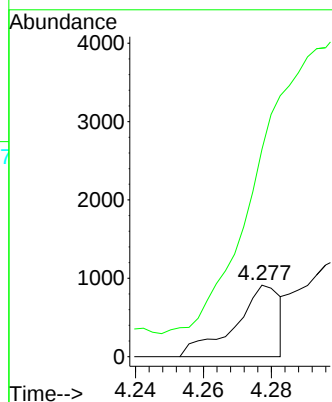
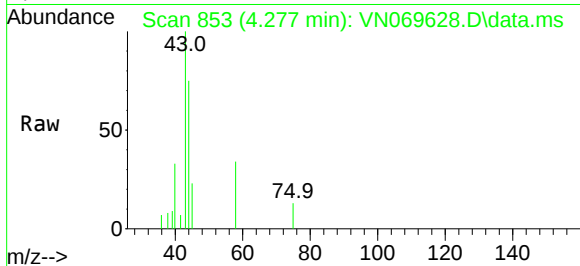




#15
Acetone
Concen: 0.373 ug/l
RT: 4.277 min Scan# 81
Delta R.T. -0.011 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

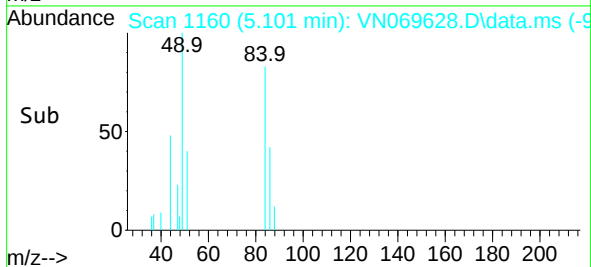
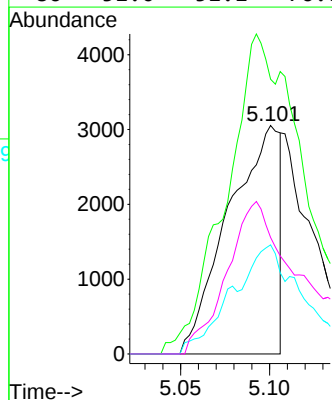
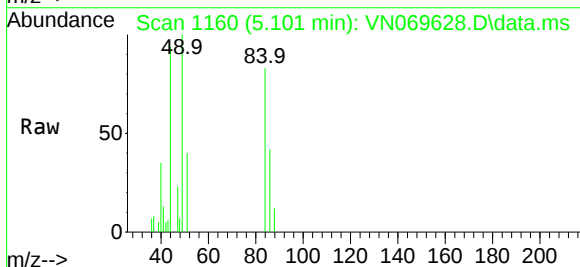
Instrument :
MSVOA_N
ClientSampleId :

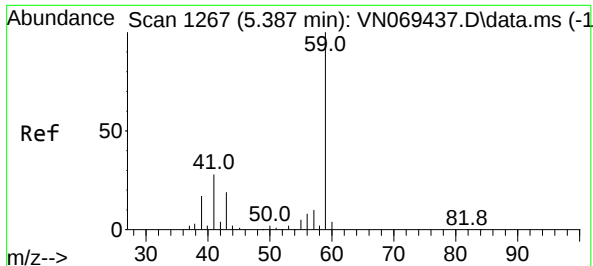
Tgt Ion: 58 Resp: 845
Ion Ratio Lower Upper
58 100
43 249.3 256.6 384.8#



#18
Methylene Chloride
Concen: 0.556 ug/l
RT: 5.101 min Scan# 1160
Delta R.T. 0.000 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Tgt Ion: 84 Resp: 6129
Ion Ratio Lower Upper
84 100
49 111.1 91.4 137.0
51 47.8 29.4 44.0#
86 51.0 51.1 76.7#





#23

tert-Butyl Alcohol

Concen: 0.438 ug/l

RT: 5.337 min Scan# 11

Delta R.T. -0.029 min

Lab File: VN069628.D

Acq: 23 Nov 2021 15:57

Instrument :

MSVOA_N

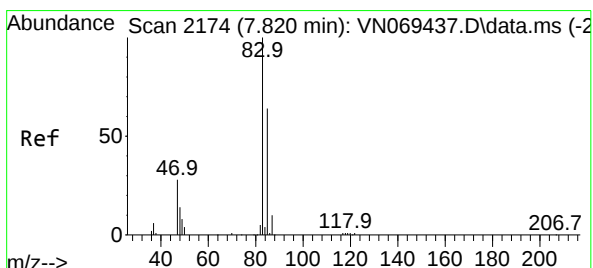
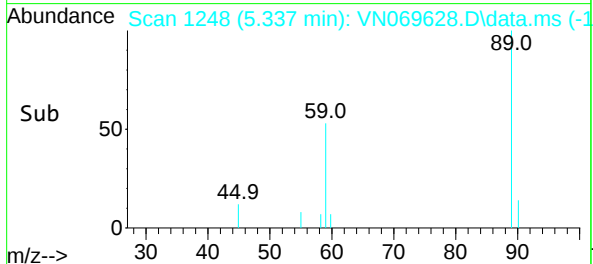
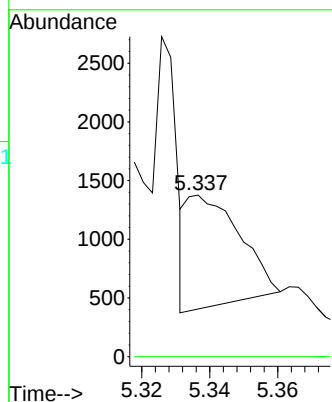
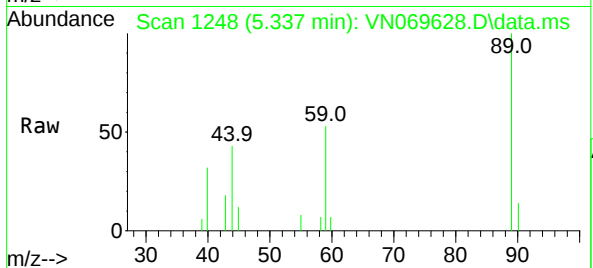
ClientSampleId :

Tgt Ion: 59 Resp: 1036

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#25

Chloroform

Concen: 68.337 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.000 min

Lab File: VN069628.D

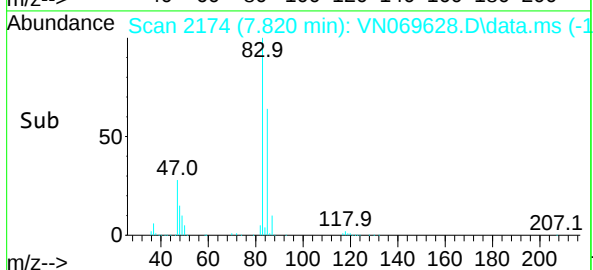
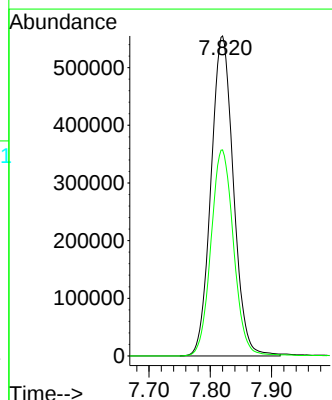
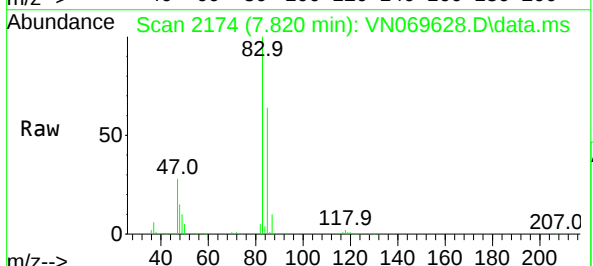
Acq: 23 Nov 2021 15:57

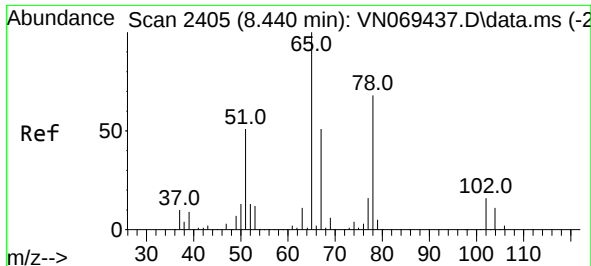
Tgt Ion: 83 Resp: 1412539

Ion Ratio Lower Upper

83 100

85 64.4 51.3 76.9





#27

1,2-Dichloroethane-d4

Concen: 32.284 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN069628.D

Acq: 23 Nov 2021 15:57

Instrument :

MSVOA_N

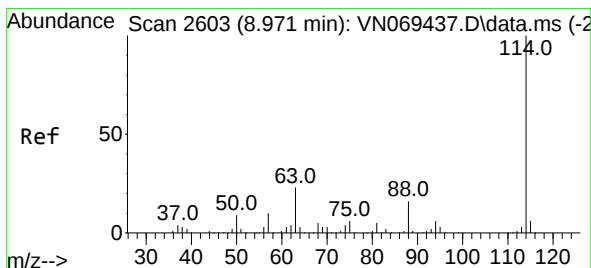
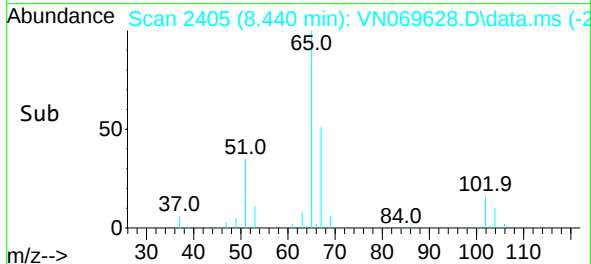
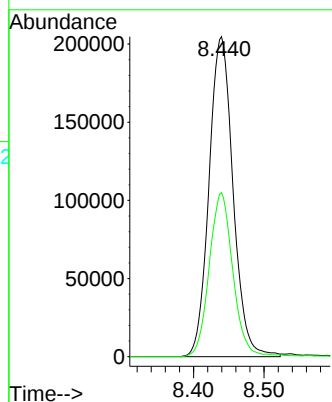
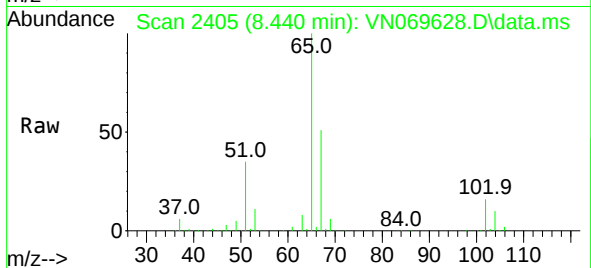
ClientSampleId :

Tgt Ion: 65 Resp: 484781

Ion Ratio Lower Upper

65 100

67 49.8 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: VN069628.D

Acq: 23 Nov 2021 15:57

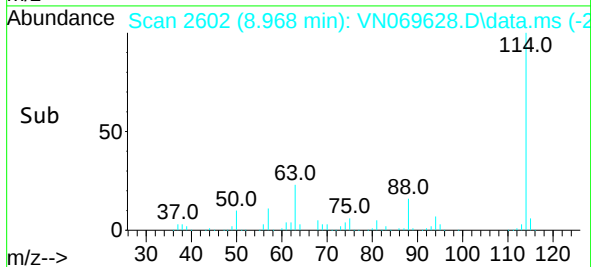
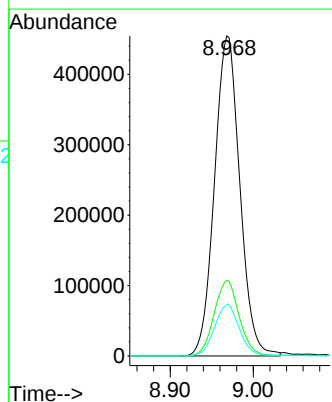
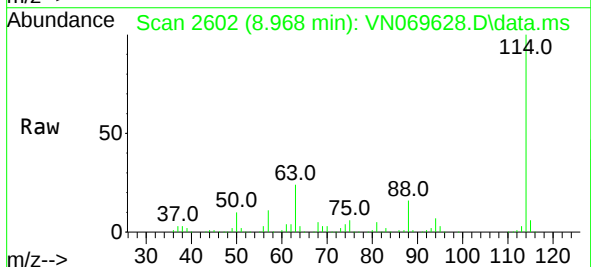
Tgt Ion: 114 Resp: 961350

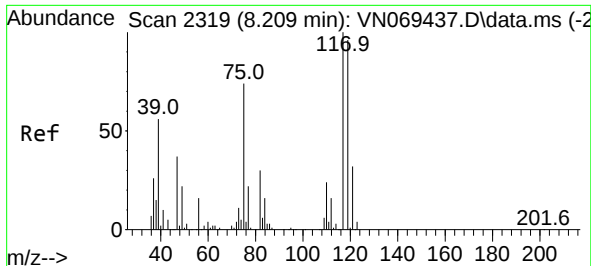
Ion Ratio Lower Upper

114 100

63 23.4 15.8 23.6

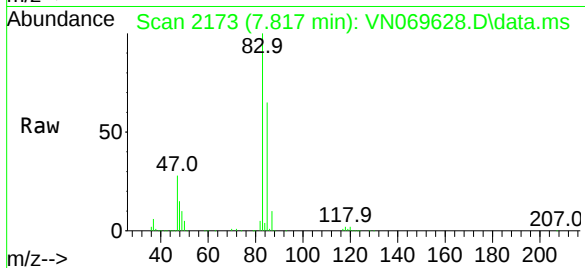
88 15.7 11.6 17.4



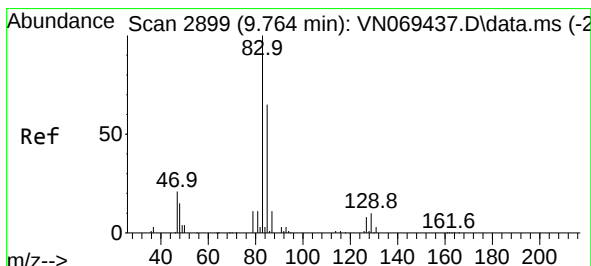
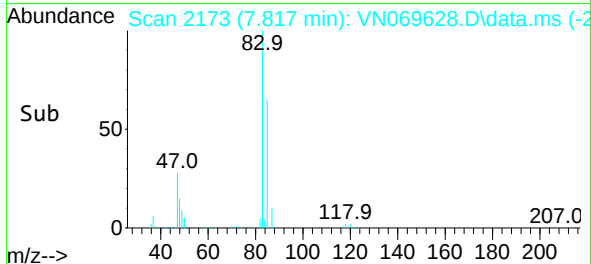
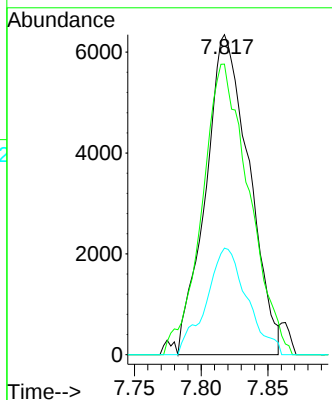


#33
Carbon Tetrachloride
Concen: 1.015 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.391 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Instrument :
MSVOA_N
ClientSampleId :

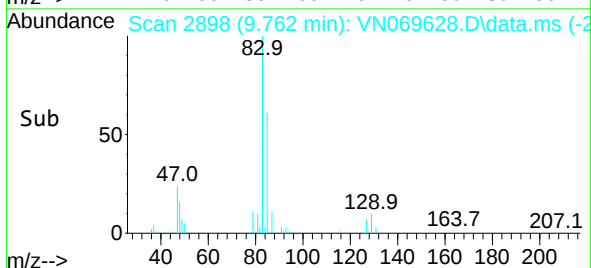
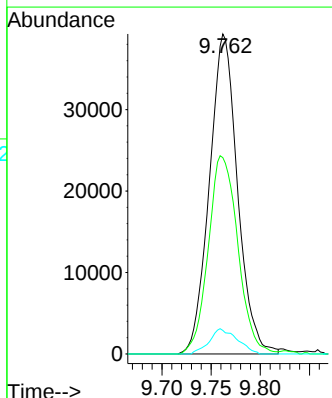
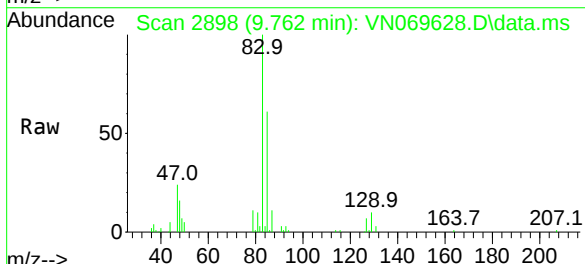


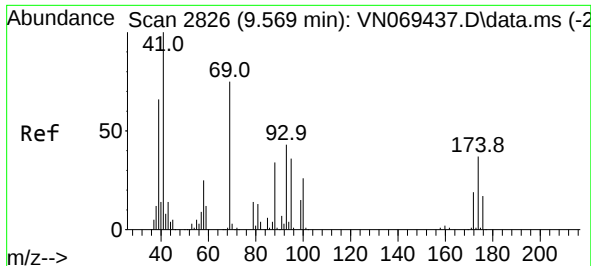
Tgt Ion:117 Resp: 14356
Ion Ratio Lower Upper
117 100
119 83.0 77.5 116.3
121 33.3 23.5 35.3



#41
Bromodichloromethane
Concen: 5.269 ug/l
RT: 9.762 min Scan# 2898
Delta R.T. -0.003 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

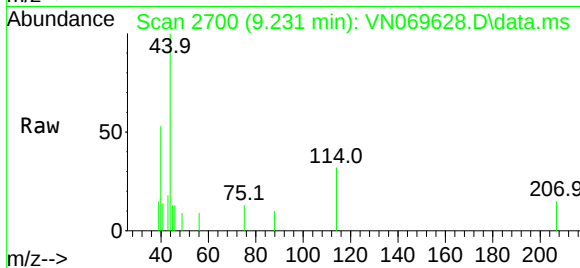
Tgt Ion: 83 Resp: 78280
Ion Ratio Lower Upper
83 100
85 61.3 54.1 81.1
127 7.4 7.6 11.4#



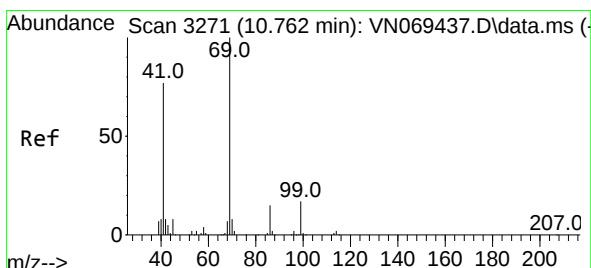
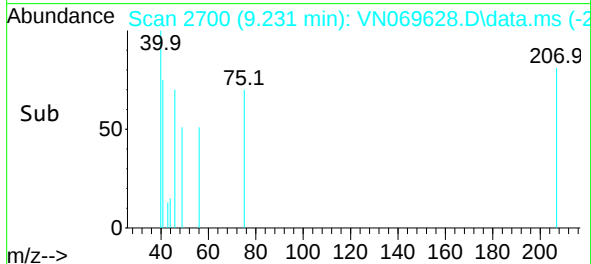
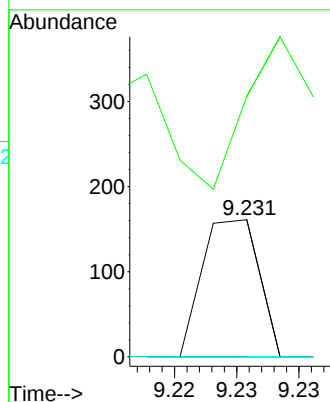


#45
1,4-Dioxane
Concen: 0.205 ug/l
RT: 9.231 min Scan# 21
Delta R.T. -0.338 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Instrument :
MSVOA_N
ClientSampleId :

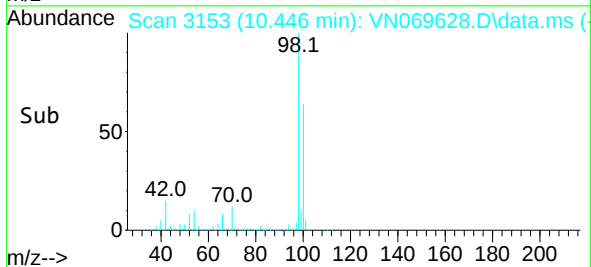
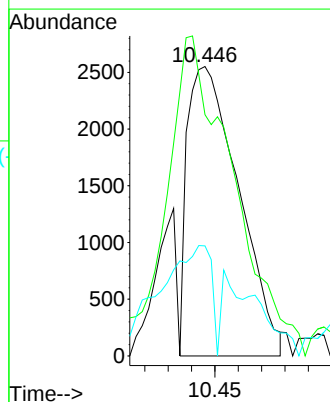
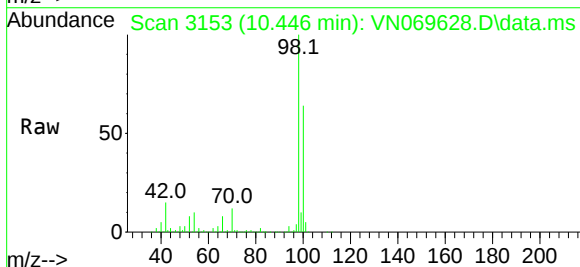


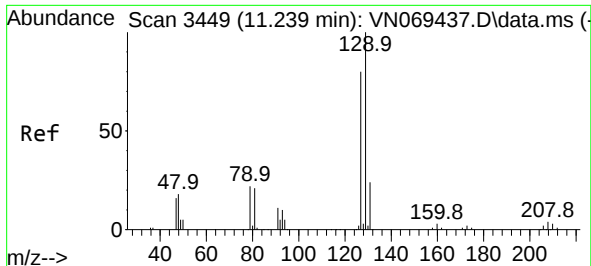
Tgt Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 368.6 25.0 37.6#
58 0.0 49.4 74.2#



#51
Ethyl methacrylate
Concen: 0.207 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.316 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Tgt Ion: 69 Resp: 3902
Ion Ratio Lower Upper
69 100
41 70.6 33.0 98.9
39 30.1 25.4 76.4

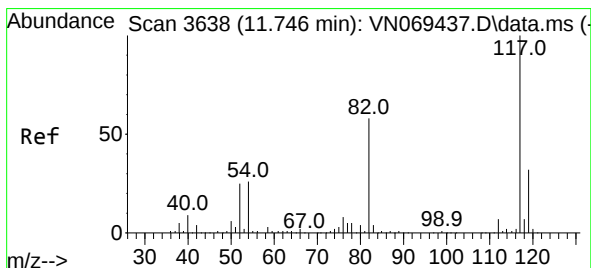
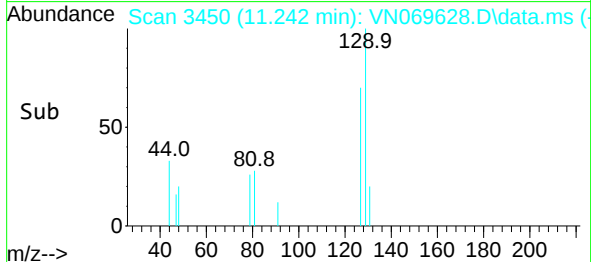
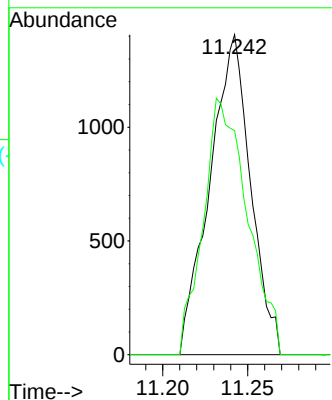
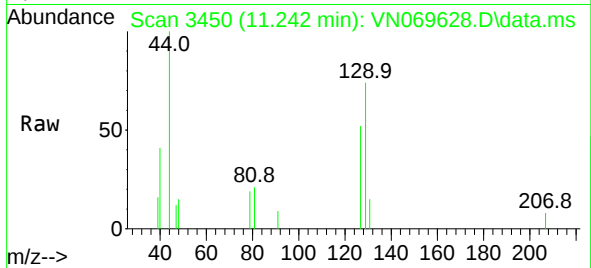




#53
Dibromochloromethane
Concen: 0.219 ug/l
RT: 11.242 min Scan# 3449
Delta R.T. 0.003 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

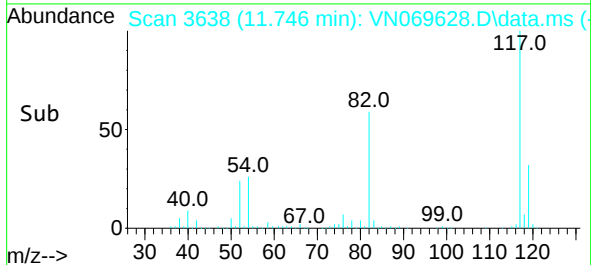
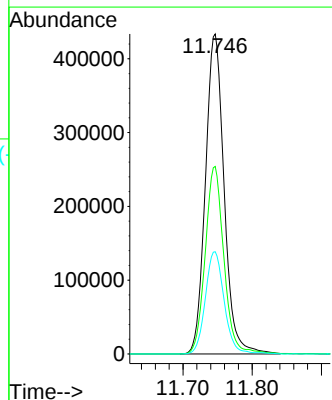
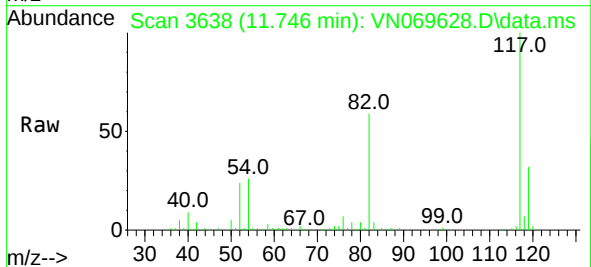
Instrument :
MSVOA_N
ClientSampleId :

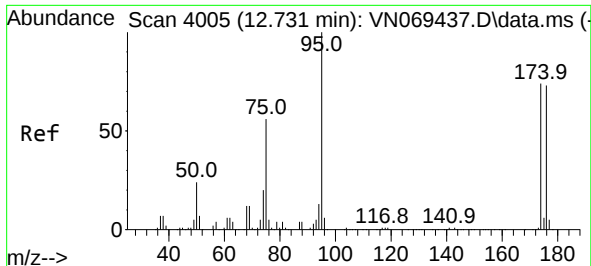
Tgt Ion:129 Resp: 2348
Ion Ratio Lower Upper
129 100
127 52.3 39.0 117.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Tgt Ion:117 Resp: 814442
Ion Ratio Lower Upper
117 100
82 58.5 43.6 65.4
119 32.1 25.8 38.6

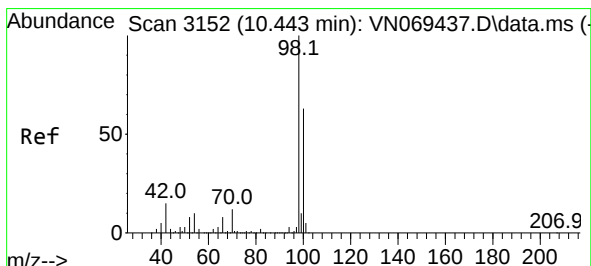
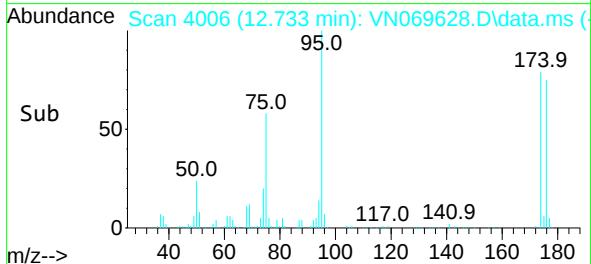
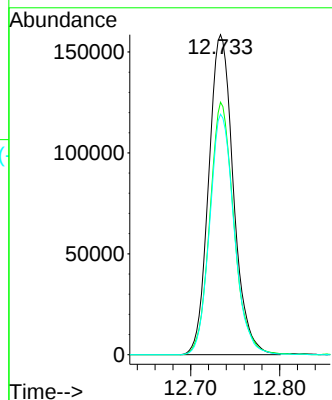
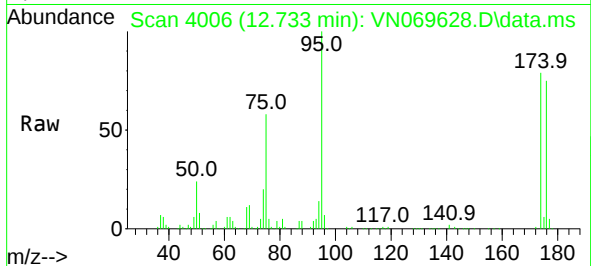




#60
4-Bromofluorobenzene
Concen: 23.419 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

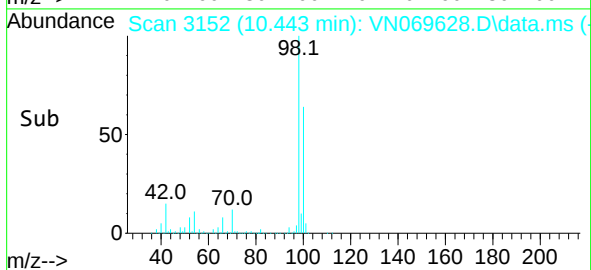
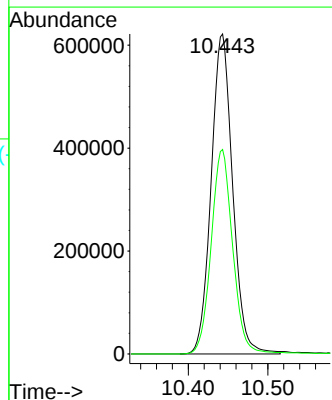
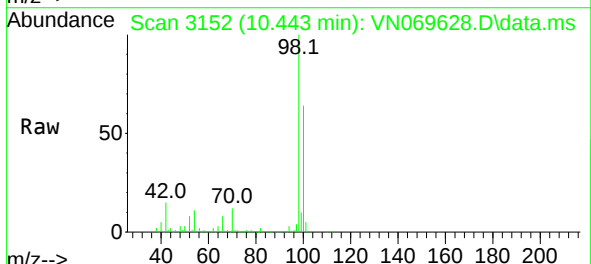
Instrument :
MSVOA_N
ClientSampleId :

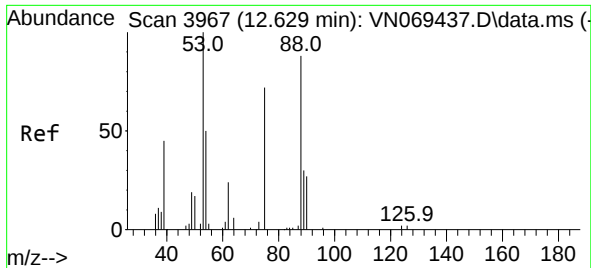
Tgt Ion: 95 Resp: 305228
Ion Ratio Lower Upper
95 100
174 77.1 62.9 94.3
176 74.5 61.0 91.4



#63
Toluene-d8
Concen: 31.050 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069628.D
Acq: 23 Nov 2021 15:57

Tgt Ion: 98 Resp: 1167645
Ion Ratio Lower Upper
98 100
100 63.8 50.6 76.0





#77

t-1,4-Dichloro-2-butene

Concen: 41.225 ug/l

RT: 12.733 min Scan# 40

Delta R.T. 0.105 min

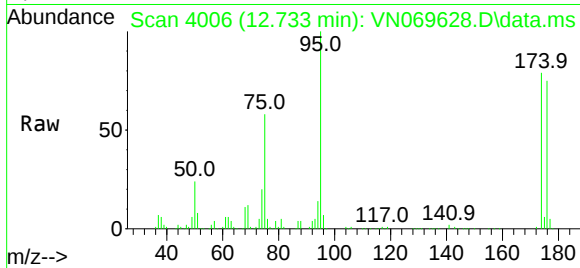
Lab File: VN069628.D

Acq: 23 Nov 2021 15:57

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 172344

Ion Ratio Lower Upper

75 100

53 0.2 51.8 155.5#

89 0.0 22.9 68.7#

