

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076617.D
 Acq On : 10 Feb 2023 18:21
 Operator : JC\MD
 Sample : 01469-04RE 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4RE

Quant Time: Feb 11 00:59:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

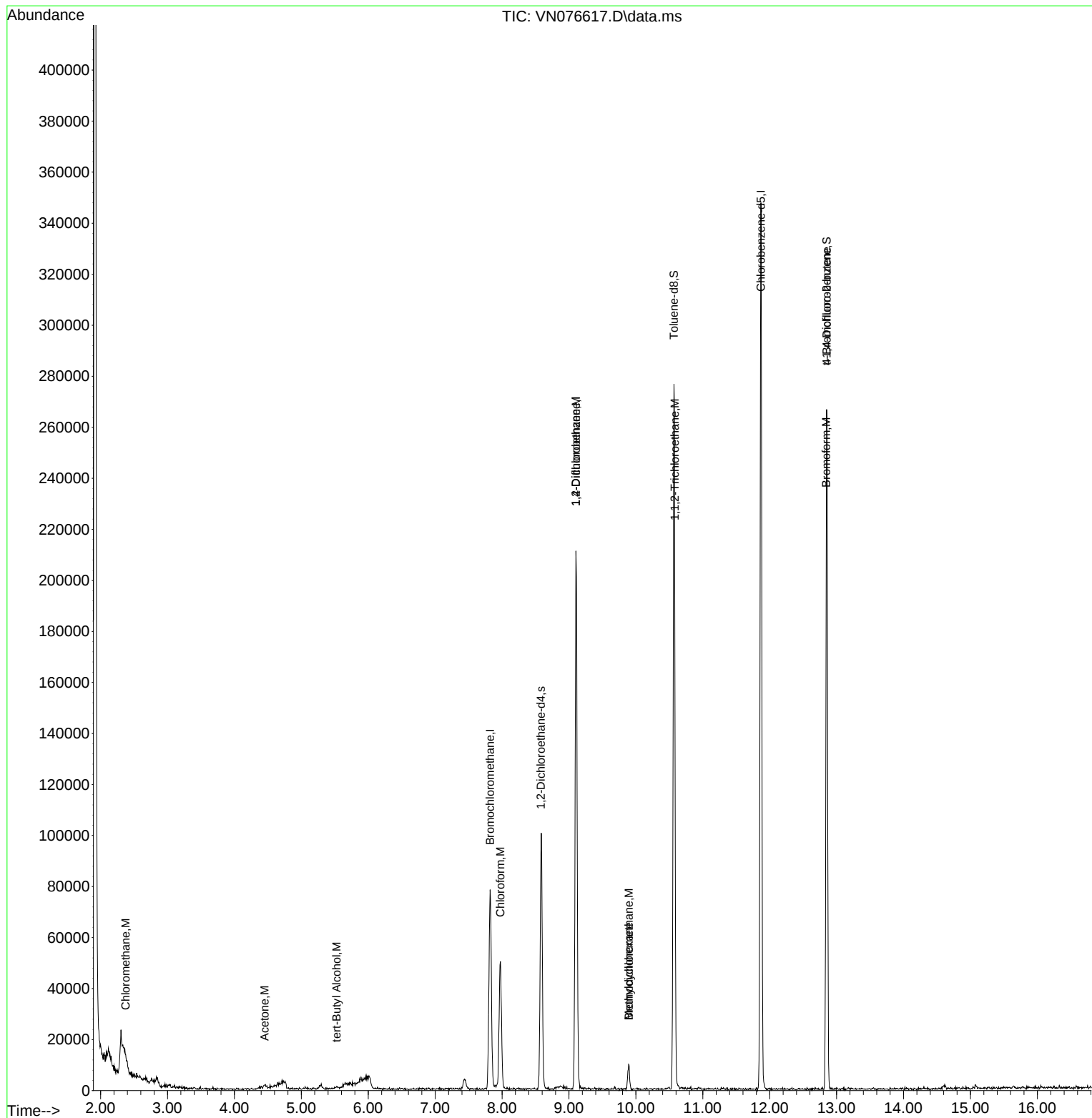
Internal Standards						
1) Bromochloromethane	7.822	128	26478	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	174547	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	188161	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.581	65	81892	26.241	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	87.467%#
60) 4-Bromofluorobenzene	12.851	95	94907	22.342	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	74.467%
63) Toluene-d8	10.569	98	190429	27.563	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.867%
Target Compounds						
					Qvalue	
3) Chloromethane	2.375	50	1269	0.288	ug/l #	43
6) Chloroethane	2.757	64	432	Below Cal		100
15) Acetone	4.451	58	228	0.435	ug/l #	1
23) tert-Butyl Alcohol	5.528	59	279	0.458	ug/l #	100
25) Chloroform	7.975	83	49923	7.114	ug/l	95
36) 1,2-Dichloroethane	9.104	62	7843	1.473	ug/l #	74
38) Methylcyclohexane	9.892	83	6632	1.326	ug/l #	18
41) Bromodichloromethane	9.892	83	6632	1.447	ug/l #	91
50) 1,1,2-Trichloroethane	10.580	97	7708	2.604	ug/l #	1
56) Bromoform	12.845	173	510	0.257	ug/l #	35
77) t-1,4-Dichloro-2-butene	12.851	75	47445	32.607	ug/l #	15

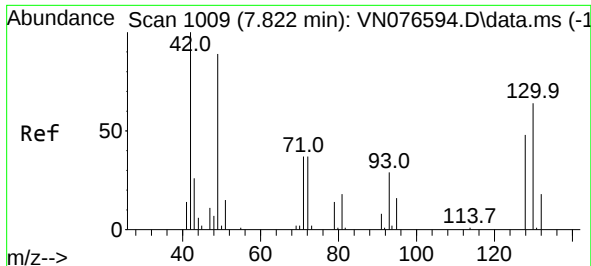
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
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ClientSampleId :
14B-4RE

Quant Time: Feb 11 00:59:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 10 05:40:47 2023
Response via : Initial Calibration

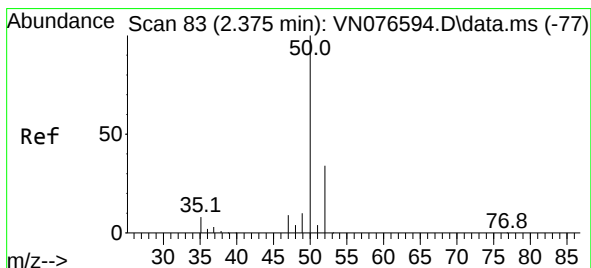
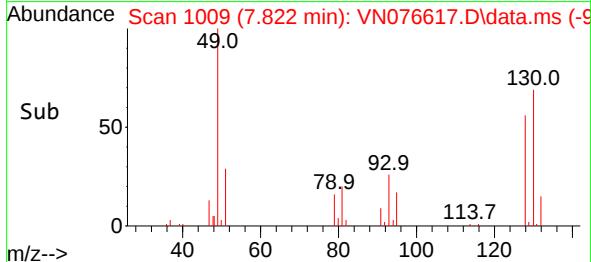
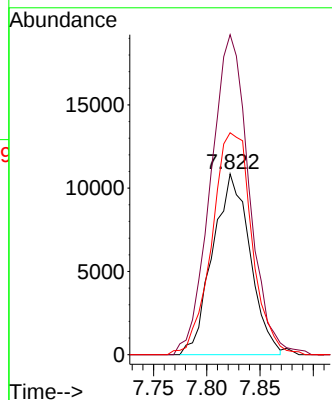
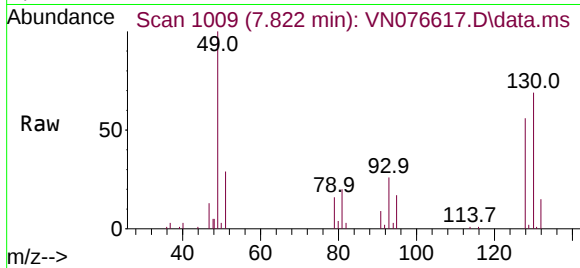




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.822 min Scan# 1009
Delta R.T. -0.008 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

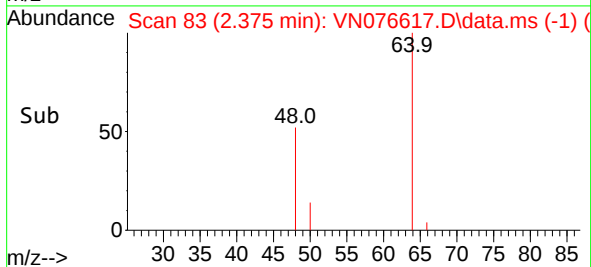
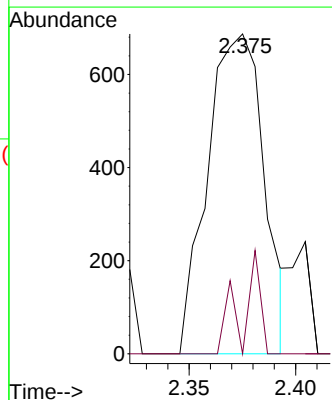
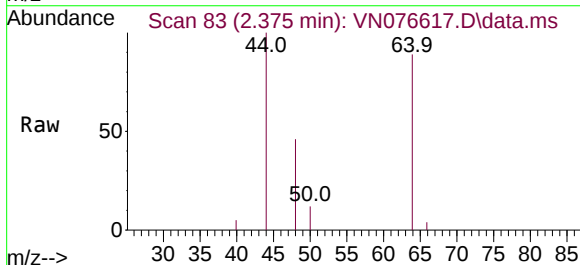
Instrument :
MSVOA_N
ClientSampleId :
14B-4RE

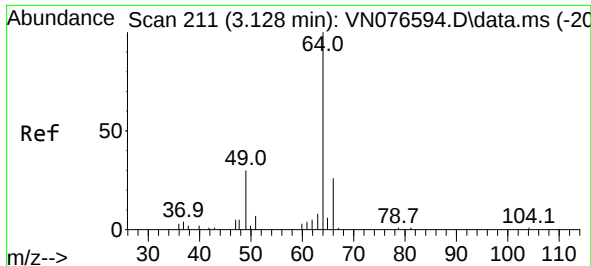
Tgt Ion:128 Resp: 26478
Ion Ratio Lower Upper
128 100
49 181.8 0.0 492.0
130 130.8 0.0 313.3



#3
Chloromethane
Concen: 0.288 ug/l
RT: 2.375 min Scan# 83
Delta R.T. -0.008 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Tgt Ion: 50 Resp: 1269
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

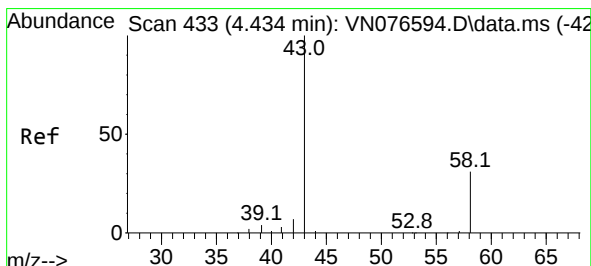
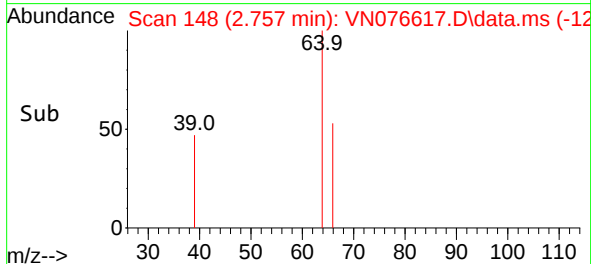
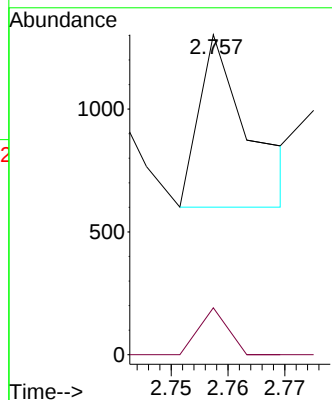
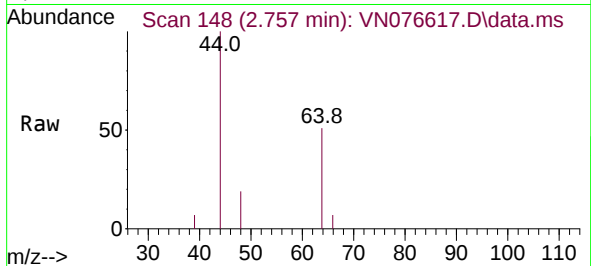




#6
Chloroethane
Concen: Below Cal
RT: 2.757 min Scan# 14
Delta R.T. -0.367 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

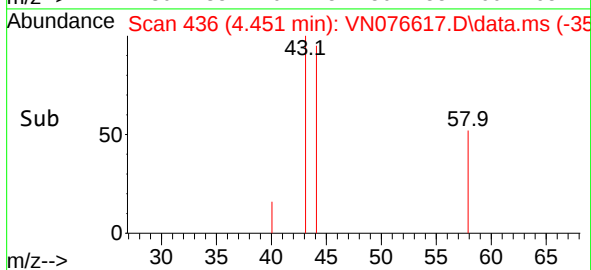
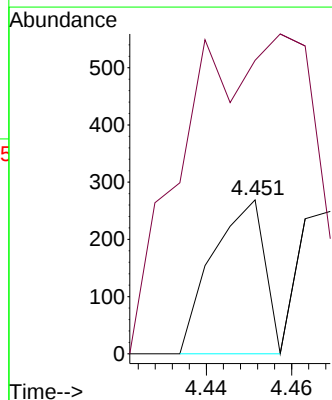
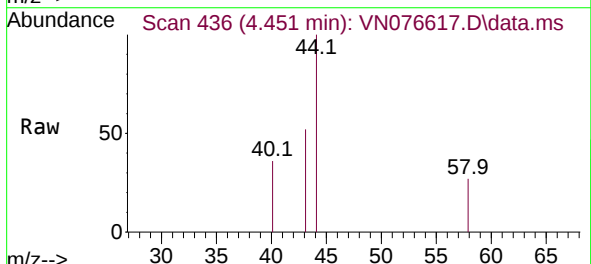
Instrument :
MSVOA_N
ClientSampleId :
14B-4RE

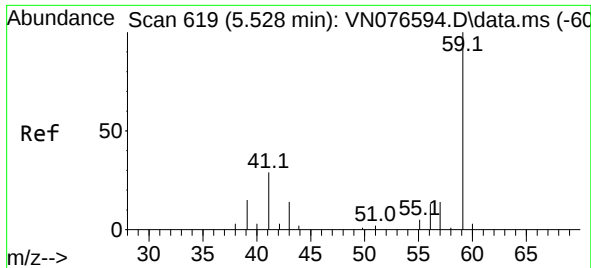
Tgt Ion: 64 Resp: 432
Ion Ratio Lower Upper
64 100
66 27.2 21.8 32.8



#15
Acetone
Concen: 0.435 ug/l
RT: 4.451 min Scan# 436
Delta R.T. -0.002 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Tgt Ion: 58 Resp: 228
Ion Ratio Lower Upper
58 100
43 79.6 232.2 348.4#

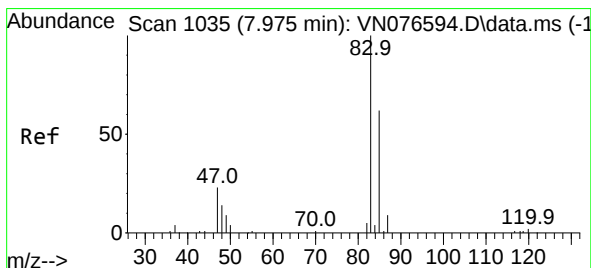
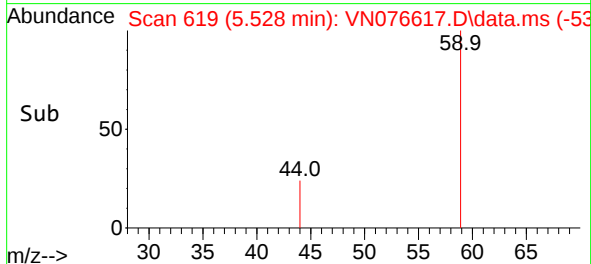
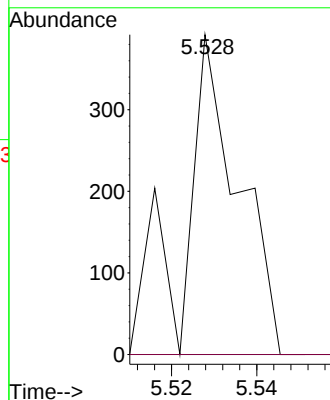
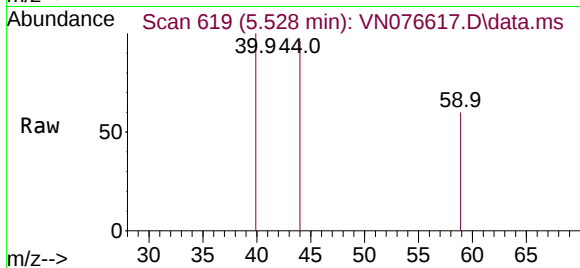




#23
tert-Butyl Alcohol
Concen: 0.458 ug/l
RT: 5.528 min Scan# 619
Delta R.T. -0.031 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

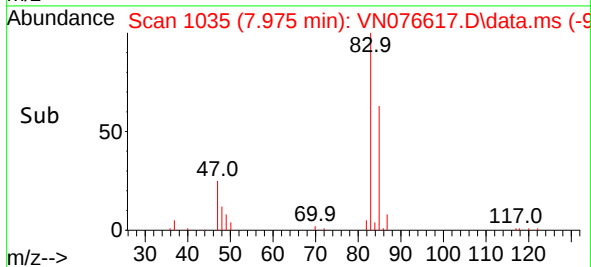
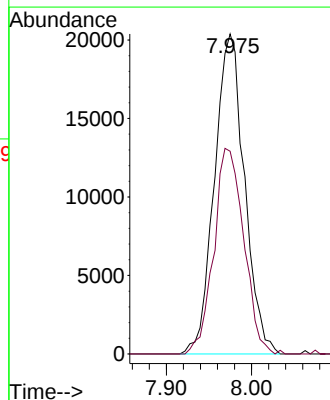
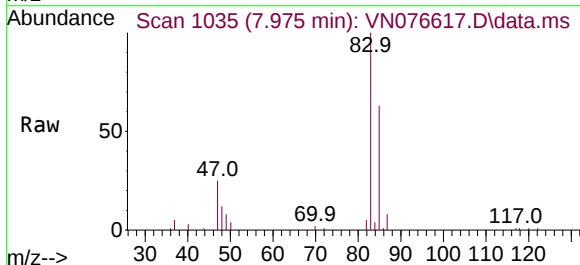
Instrument :
MSVOA_N
ClientSampleId :
14B-4RE

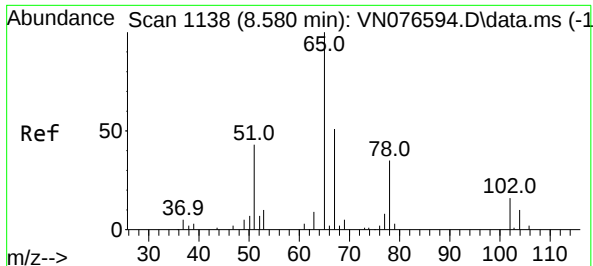
Tgt Ion: 59 Resp: 279
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.4#



#25
Chloroform
Concen: 7.114 ug/l
RT: 7.975 min Scan# 1035
Delta R.T. -0.002 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Tgt Ion: 83 Resp: 49923
Ion Ratio Lower Upper
83 100
85 63.4 53.6 80.4





#27

1,2-Dichloroethane-d4

Concen: 26.241 ug/l

RT: 8.581 min Scan# 1138

Delta R.T. -0.007 min

Lab File: VN076617.D

Acq: 10 Feb 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

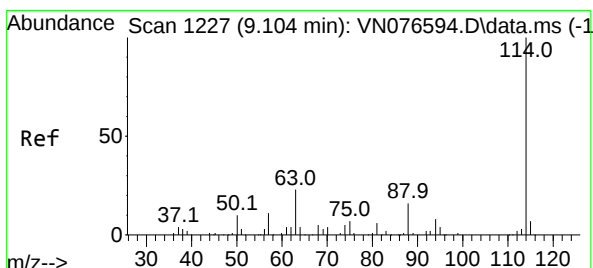
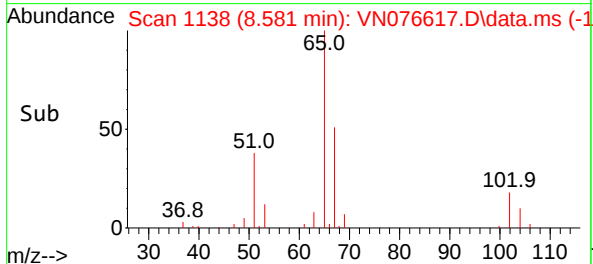
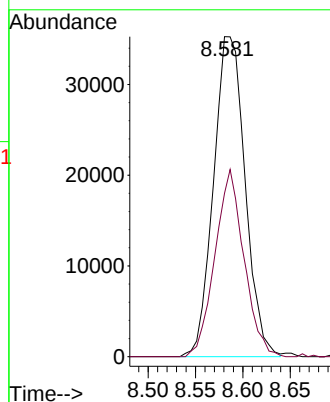
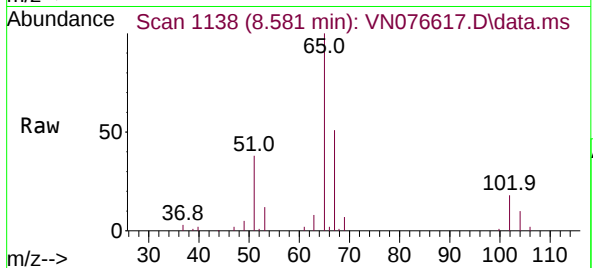
14B-4RE

Tgt Ion: 65 Resp: 81892

Ion Ratio Lower Upper

65 100

67 53.6 45.2 67.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.104 min Scan# 1227

Delta R.T. -0.002 min

Lab File: VN076617.D

Acq: 10 Feb 2023 18:21

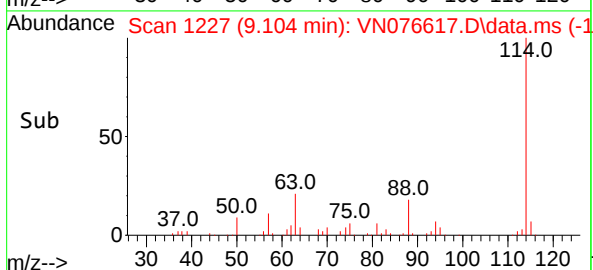
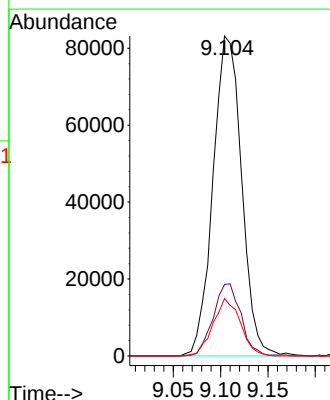
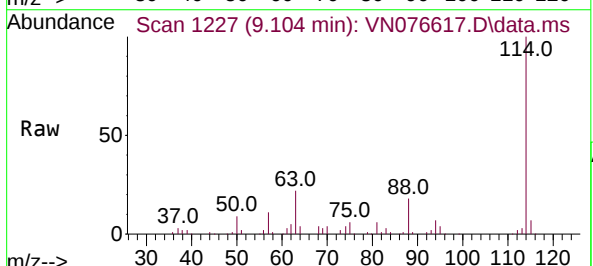
Tgt Ion: 114 Resp: 174547

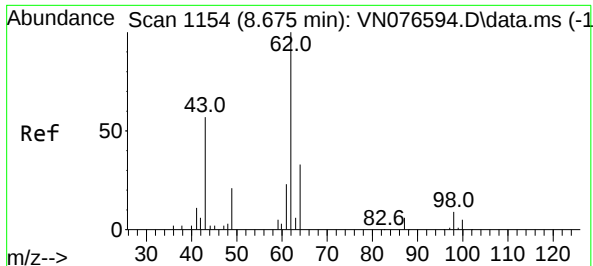
Ion Ratio Lower Upper

114 100

63 21.8 16.6 25.0

88 17.2 12.2 18.4





#36

1,2-Dichloroethane

Concen: 1.473 ug/l

RT: 9.104 min Scan# 11

Delta R.T. 0.421 min

Lab File: VN076617.D

Acq: 10 Feb 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

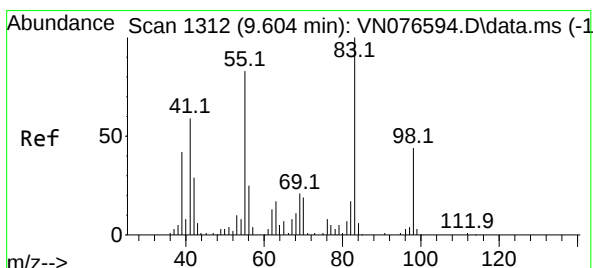
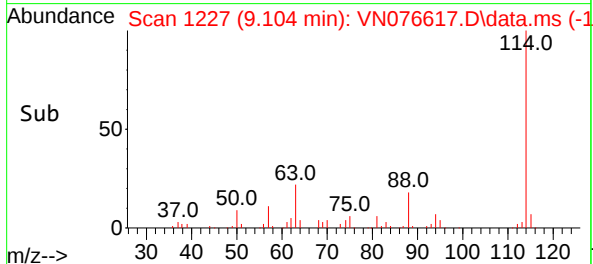
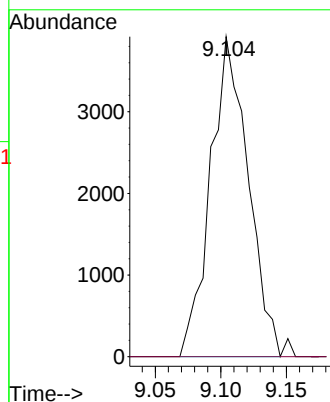
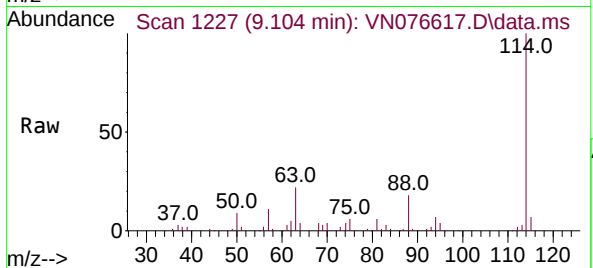
14B-4RE

Tgt Ion: 62 Resp: 7843

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#



#38

Methylcyclohexane

Concen: 1.326 ug/l

RT: 9.892 min Scan# 1361

Delta R.T. 0.286 min

Lab File: VN076617.D

Acq: 10 Feb 2023 18:21

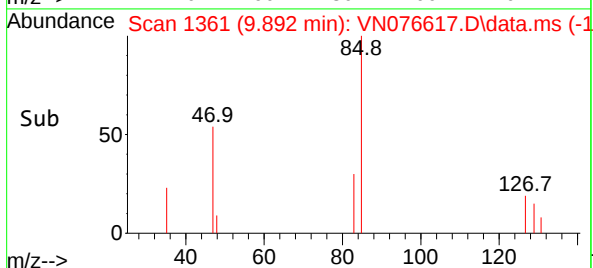
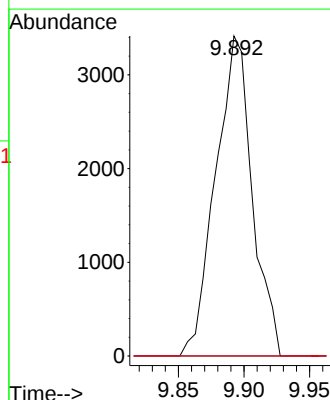
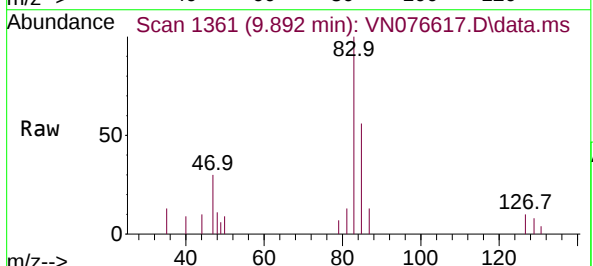
Tgt Ion: 83 Resp: 6632

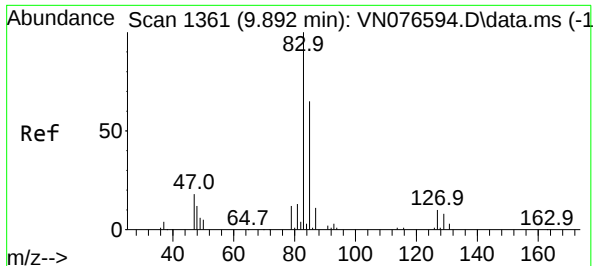
Ion Ratio Lower Upper

83 100

55 0.0 37.4 112.2#

98 0.0 24.5 73.5#

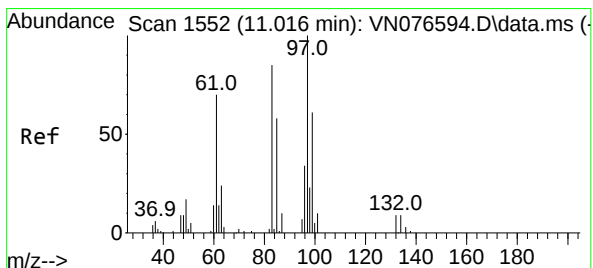
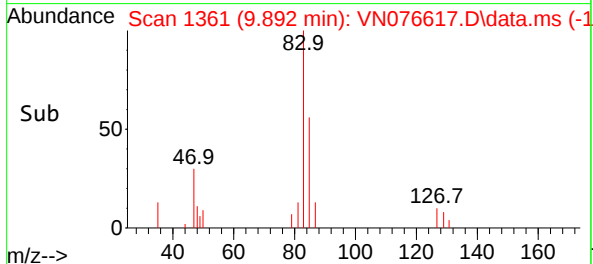
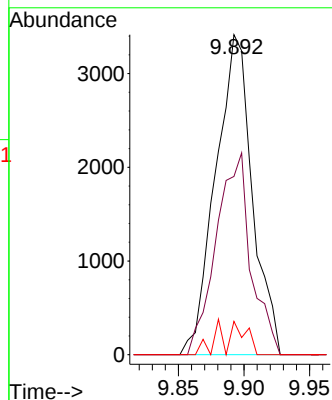
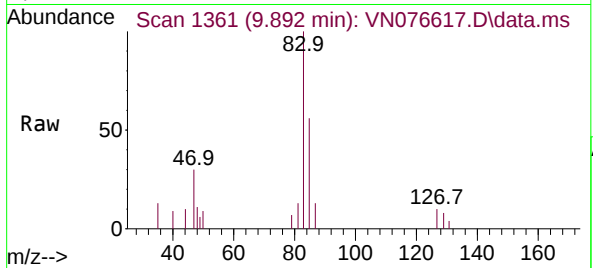




#41
Bromodichloromethane
Concen: 1.447 ug/l
RT: 9.892 min Scan# 11
Delta R.T. 0.004 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

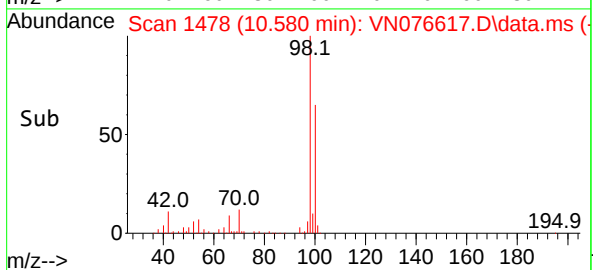
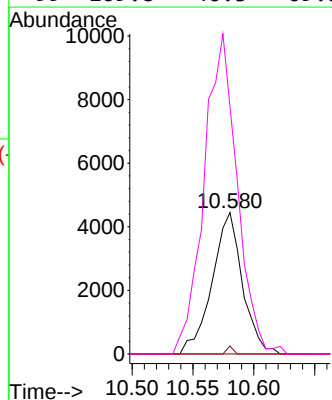
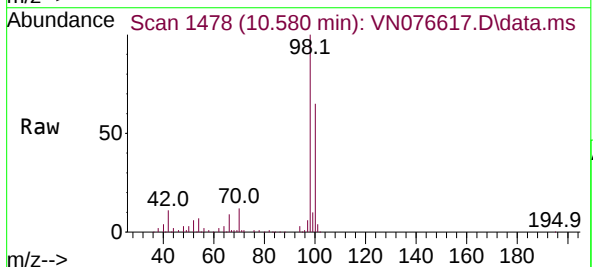
Instrument :
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ClientSampleId :
14B-4RE

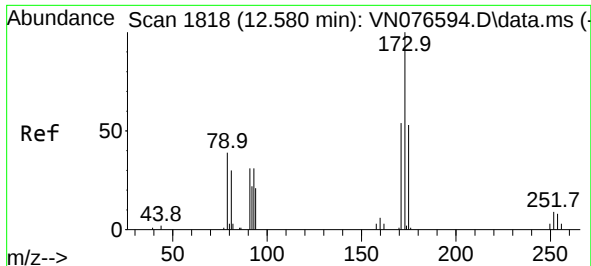
Tgt Ion: 83 Resp: 6632
Ion Ratio Lower Upper
83 100
85 55.7 50.2 75.4
127 10.4 5.1 7.7#



#50
1,1,2-Trichloroethane
Concen: 2.604 ug/l
RT: 10.580 min Scan# 1478
Delta R.T. -0.438 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Tgt Ion: 97 Resp: 7708
Ion Ratio Lower Upper
97 100
83 5.7 69.2 103.8#
85 0.0 41.4 62.2#
99 169.8 46.3 69.5#

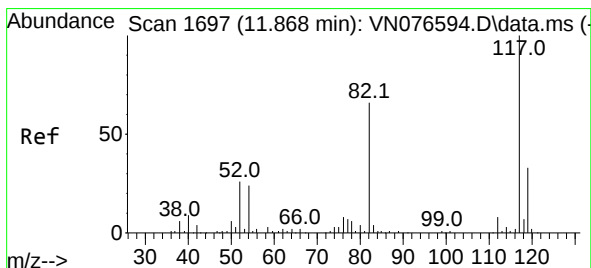
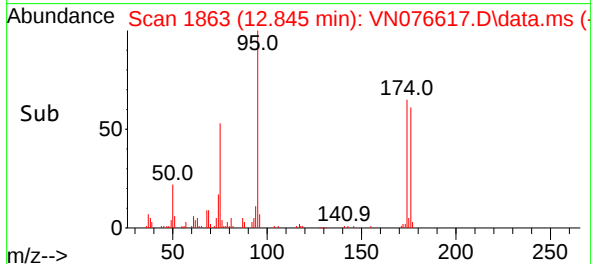
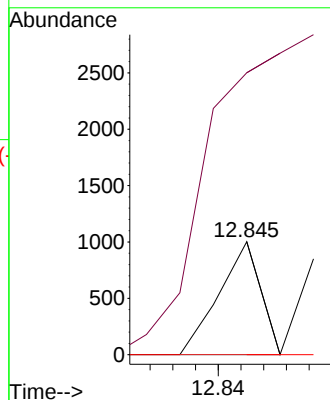
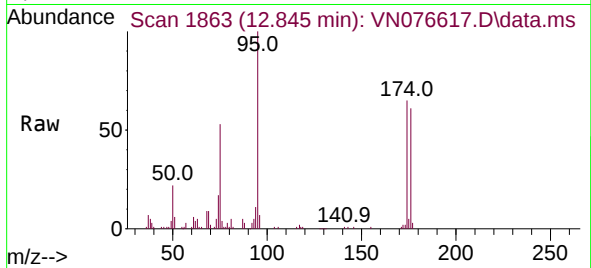




#56
Bromoform
Concen: 0.257 ug/l
RT: 12.845 min Scan# 1863
Delta R.T. 0.269 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

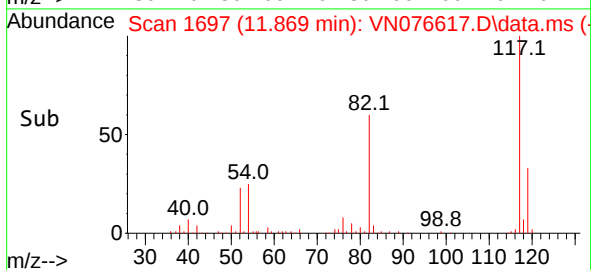
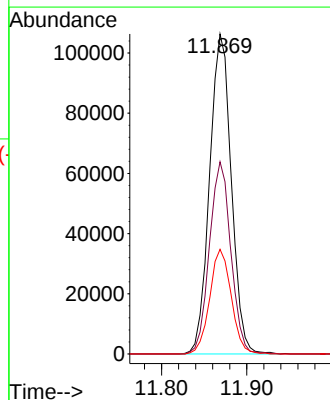
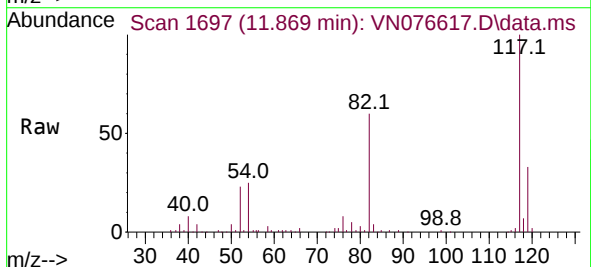
Instrument :
MSVOA_N
ClientSampleId :
14B-4RE

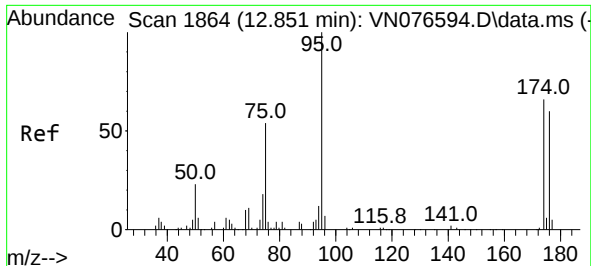
Tgt Ion:173 Resp: 510
Ion Ratio Lower Upper
173 100
175 0.0 39.1 58.7#
254 0.0 7.0 10.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.869 min Scan# 1697
Delta R.T. -0.002 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Tgt Ion:117 Resp: 188161
Ion Ratio Lower Upper
117 100
82 59.2 44.6 67.0
119 32.4 25.6 38.4

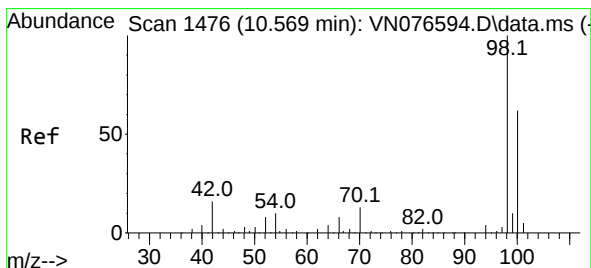
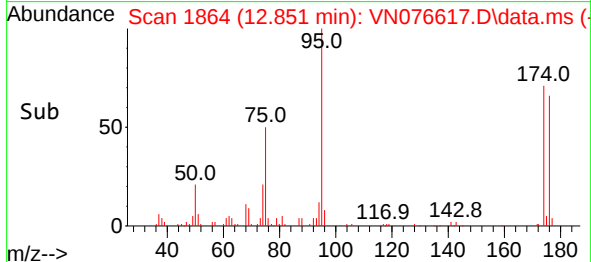
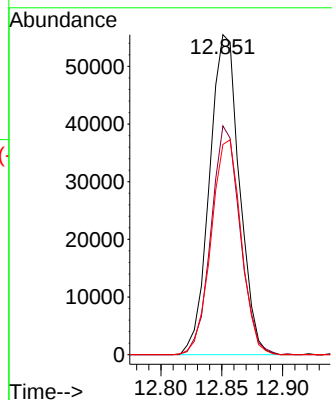
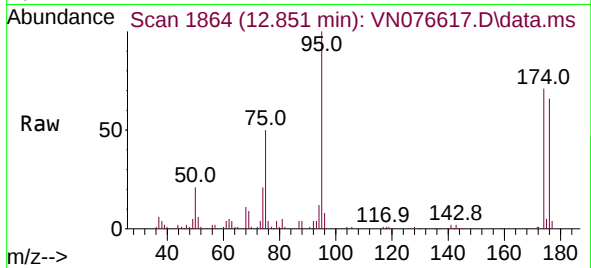




#60
4-Bromofluorobenzene
Concen: 22.342 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.002 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

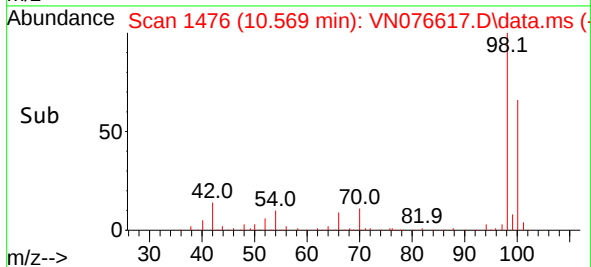
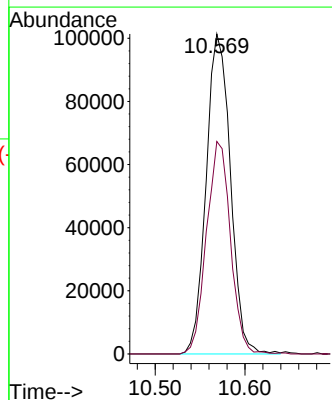
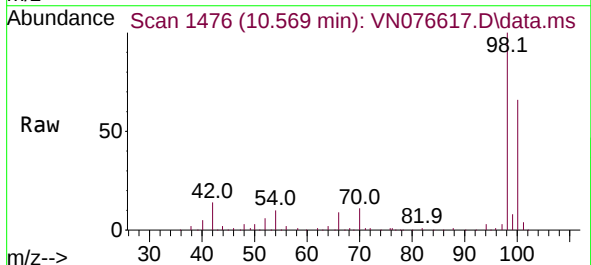
Instrument :
MSVOA_N
ClientSampleId :
14B-4RE

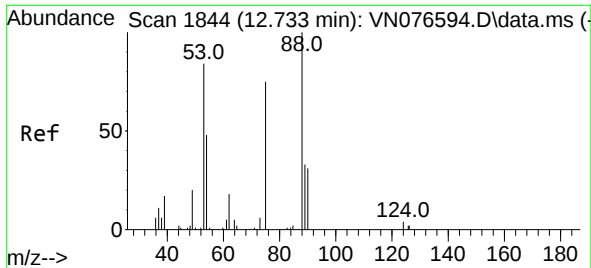
Tgt Ion: 95 Resp: 94907
Ion Ratio Lower Upper
95 100
174 69.3 57.8 86.8
176 67.1 57.0 85.4



#63
Toluene-d8
Concen: 27.563 ug/l
RT: 10.569 min Scan# 1476
Delta R.T. -0.002 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

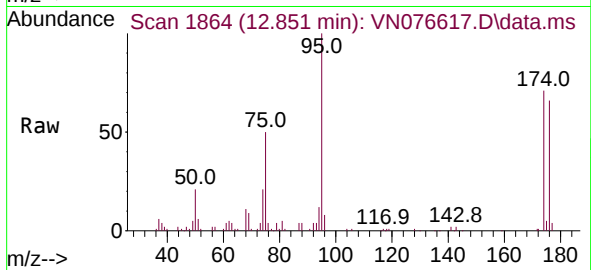
Tgt Ion: 98 Resp: 190429
Ion Ratio Lower Upper
98 100
100 65.2 52.7 79.1





#77
t-1,4-Dichloro-2-butene
Concen: 32.607 ug/l
RT: 12.851 min Scan# 11
Delta R.T. 0.116 min
Lab File: VN076617.D
Acq: 10 Feb 2023 18:21

Instrument :
MSVOA_N
ClientSampleId :
14B-4RE



Tgt Ion: 75 Resp: 47445
Ion Ratio Lower Upper
75 100
53 0.0 43.3 129.9#
89 0.0 21.1 63.1#

