

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079302.D
 Acq On : 19 Sep 2023 14:52
 Operator : JC\MD
 Sample : 04477-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 15:41:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

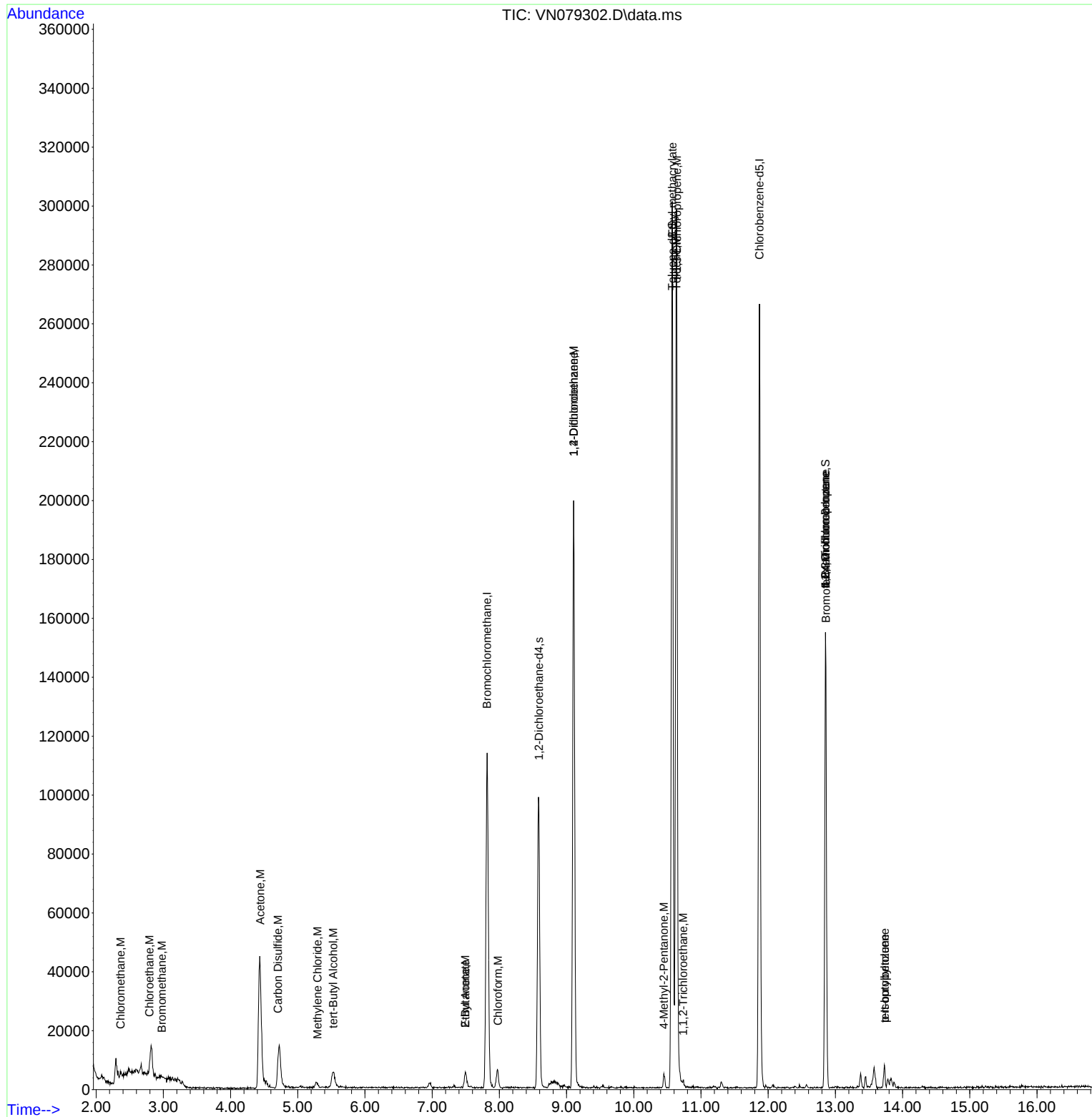
Internal Standards						
1) Bromochloromethane	7.818	128	37218	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	161987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	153195	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	80846	28.912	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.367%
60) 4-Bromofluorobenzene	12.853	95	52998	23.479	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.267%
63) Toluene-d8	10.571	98	203410	28.412	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	584	0.281	ug/l #	45
5) Bromomethane	2.977	94	353	0.279	ug/l #	58
6) Chloroethane	2.795	64	600	0.476	ug/l	96
15) Acetone	4.442	58	15475	66.280	ug/l	89
16) Carbon Disulfide	4.706	76	825	0.213	ug/l #	76
18) Methylene Chloride	5.294	84	725	0.413	ug/l #	72
23) tert-Butyl Alcohol	5.530	59	9220	26.778	ug/l #	100
25) Chloroform	7.977	83	6031	1.360	ug/l	90
30) 2-Butanone	7.494	43	9322	7.136	ug/l #	93
36) 1,2-Dichloroethane	9.106	62	6346	2.332	ug/l #	73
43) Ethyl Acetate	7.494	43	9322	3.757	ug/l #	66
48) t-1,3-Dichloropropene	10.641	75	1381	0.456	ug/l	97
50) 1,1,2-Trichloroethane	10.735	97	1687	0.857	ug/l #	15
51) Ethyl methacrylate	10.576	69	784	0.258	ug/l	79
56) Bromoform	12.859	173	538	0.374	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	3361	1.196	ug/l #	80
62) Toluene	10.635	91	219931	24.657	ug/l	99
72) 1,2,3-Trichloropropane	12.853	75	28386	10.887	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	28386	30.921	ug/l #	14
79) tert-butylbenzene	13.735	119	3420	0.608	ug/l	56
82) p-Isopropyltoluene	13.735	119	3420	0.563	ug/l	89

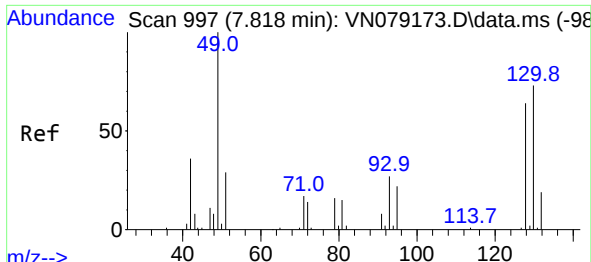
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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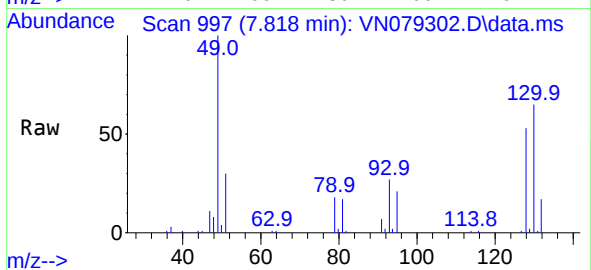
Quant Time: Sep 19 15:41:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
Response via : Initial Calibration



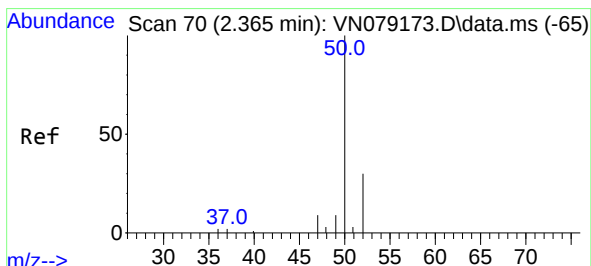
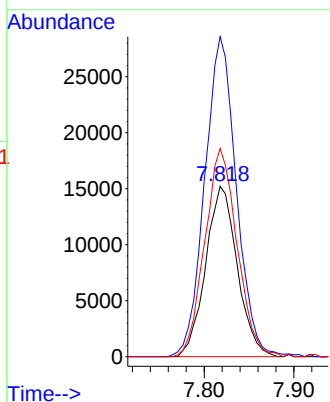
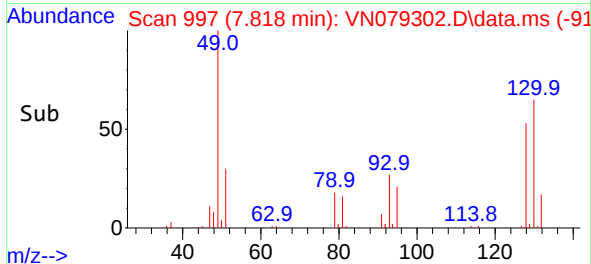


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

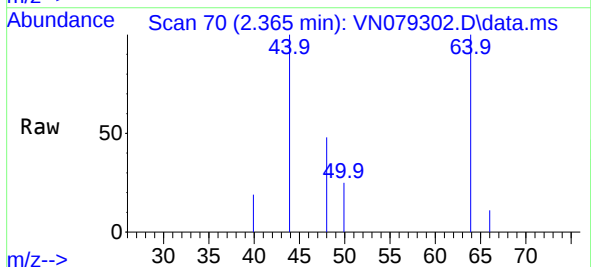
Instrument :
MSVOA_N
ClientSampleId :



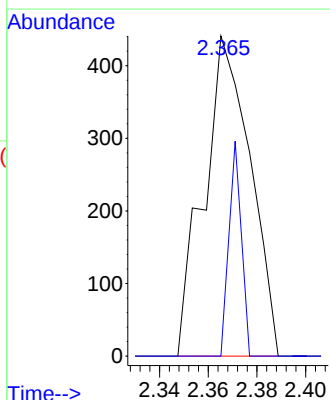
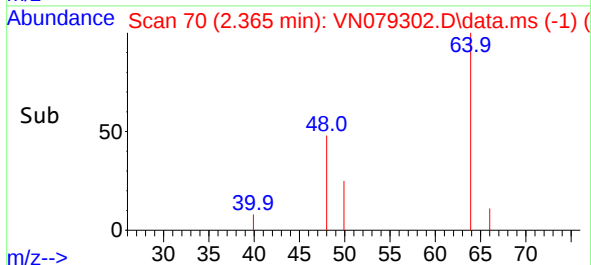
Tgt Ion:128 Resp: 37218
Ion Ratio Lower Upper
128 100
49 188.2 0.0 414.3
130 124.9 0.0 311.0

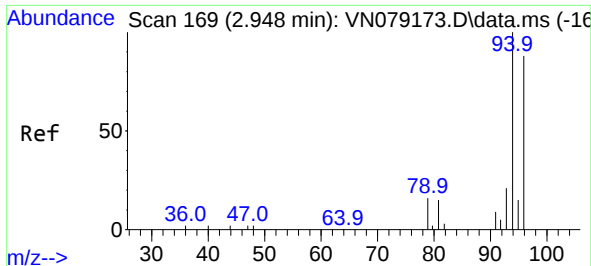


#3
Chloromethane
Concen: 0.281 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52



Tgt Ion: 50 Resp: 584
Ion Ratio Lower Upper
50 100
52 0.0 24.0 36.0#

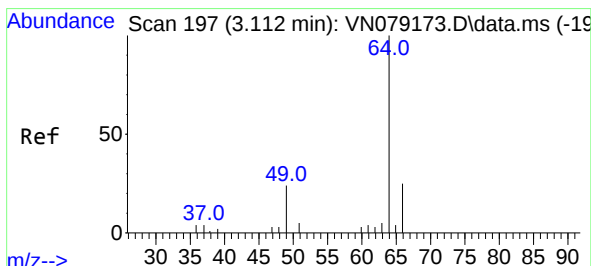
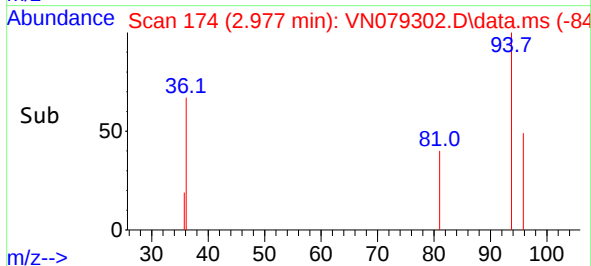
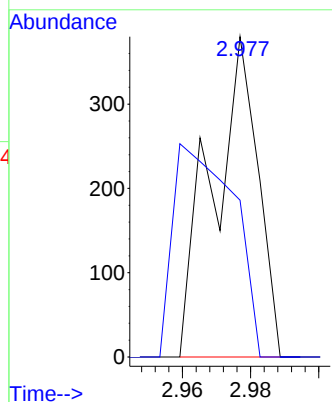
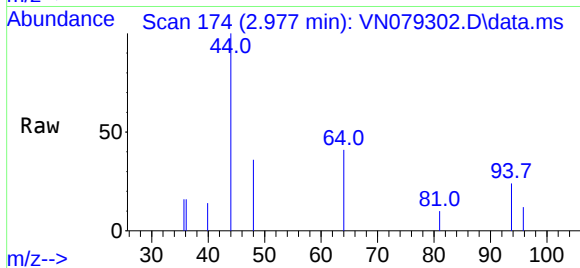




#5
Bromomethane
Concen: 0.279 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

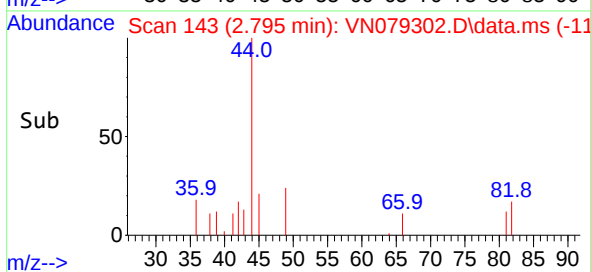
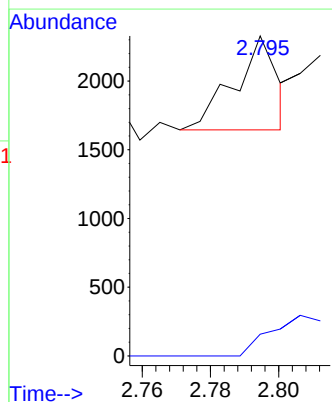
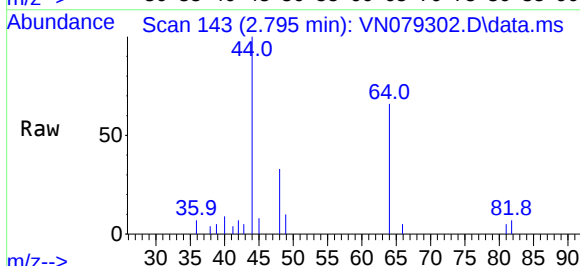
Instrument :
MSVOA_N
ClientSampleId :

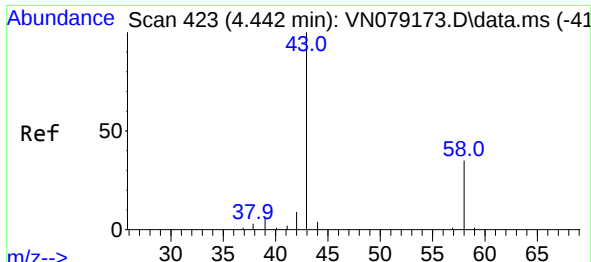
Tgt Ion: 94 Resp: 353
Ion Ratio Lower Upper
94 100
96 48.9 70.6 105.8#



#6
Chloroethane
Concen: 0.476 ug/l
RT: 2.795 min Scan# 143
Delta R.T. -0.317 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 64 Resp: 600
Ion Ratio Lower Upper
64 100
66 23.1 20.1 30.1





#15

Acetone

Concen: 66.280 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN079302.D

Acq: 19 Sep 2023 14:52

Instrument :

MSVOA_N

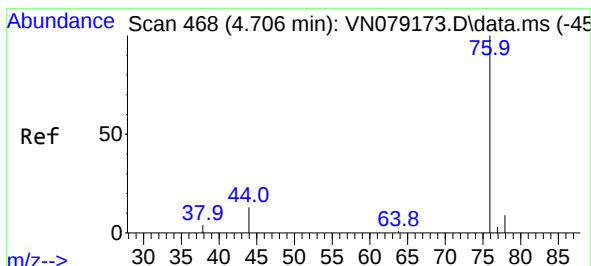
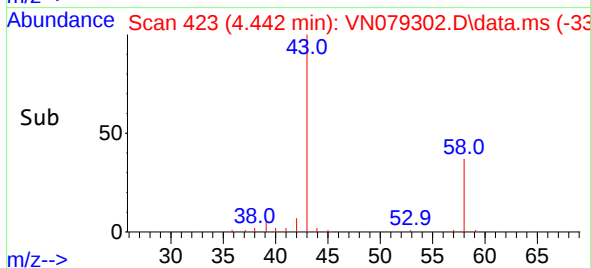
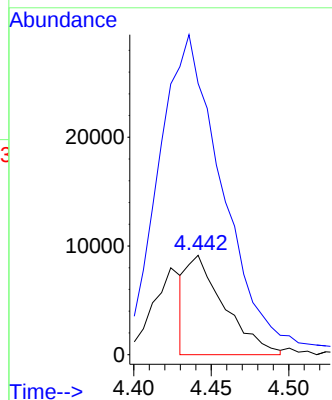
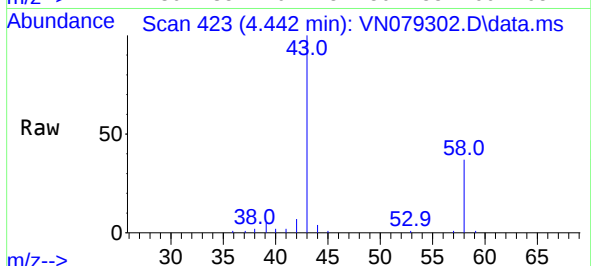
ClientSampleId :

Tgt Ion: 58 Resp: 15475

Ion Ratio Lower Upper

58 100

43 264.5 228.3 342.5



#16

Carbon Disulfide

Concen: 0.213 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN079302.D

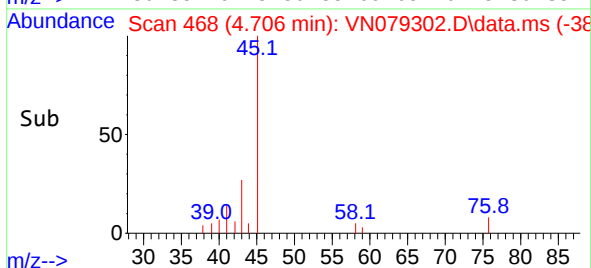
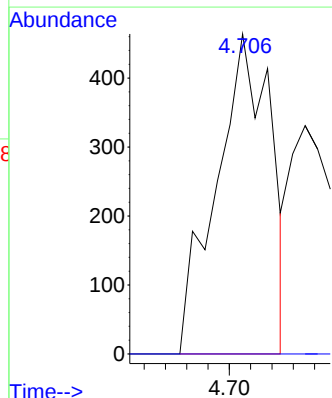
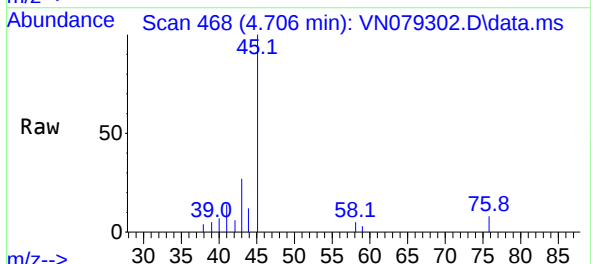
Acq: 19 Sep 2023 14:52

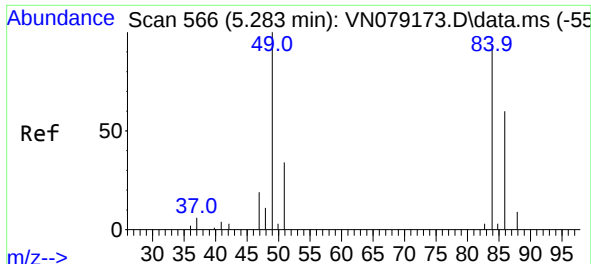
Tgt Ion: 76 Resp: 825

Ion Ratio Lower Upper

76 100

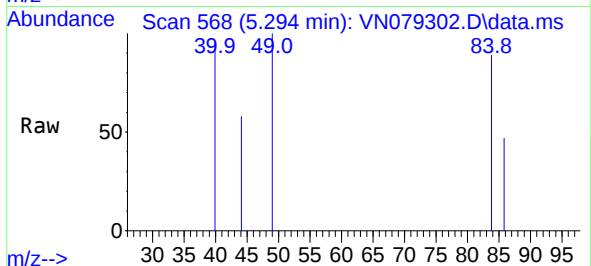
78 0.0 6.9 10.3#





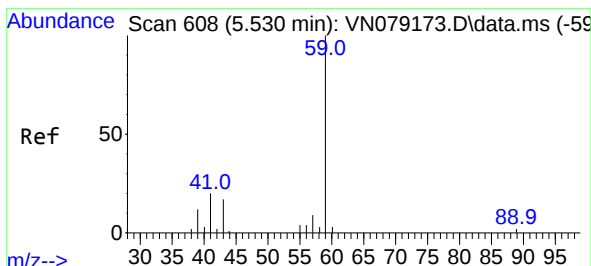
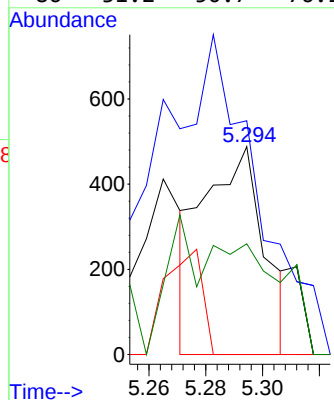
#18
Methylene Chloride
Concen: 0.413 ug/l
RT: 5.294 min Scan# 501
Delta R.T. 0.011 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 725

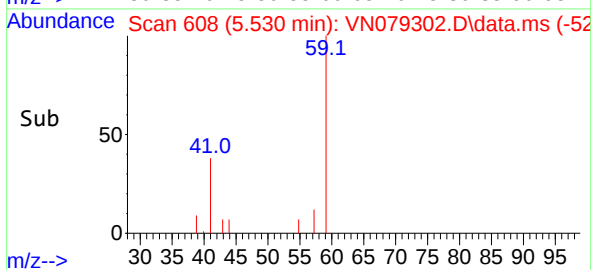
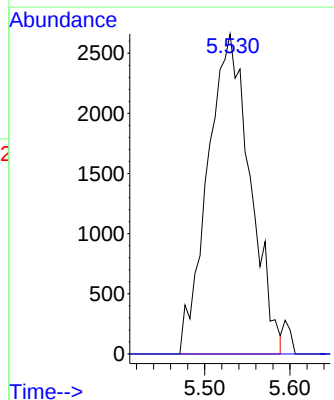
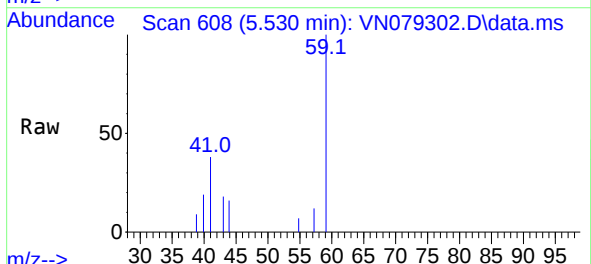
Ion	Ratio	Lower	Upper
84	100		
49	99.3	86.9	130.3
51	0.0	28.6	43.0#
86	31.2	50.7	76.1#

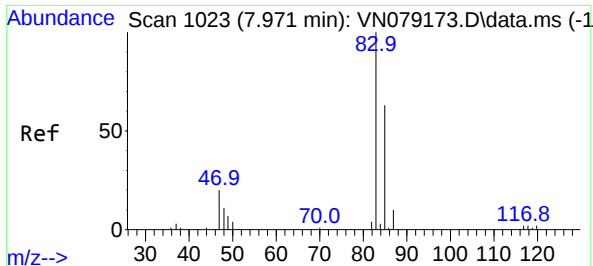


#23
tert-Butyl Alcohol
Concen: 26.778 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 59 Resp: 9220

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 1.360 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN079302.D

Acq: 19 Sep 2023 14:52

Instrument :

MSVOA_N

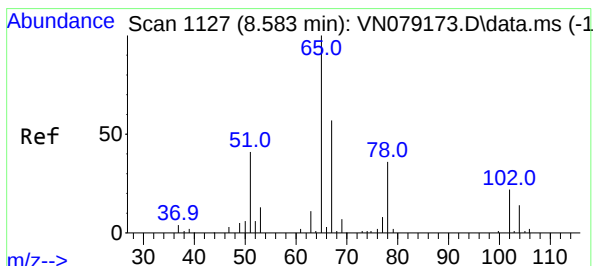
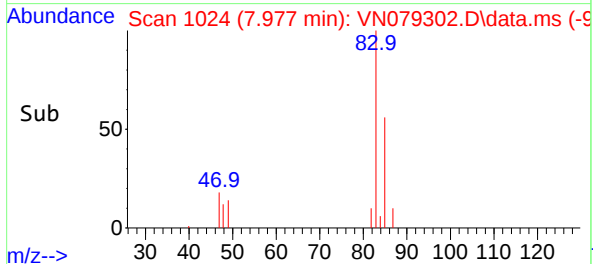
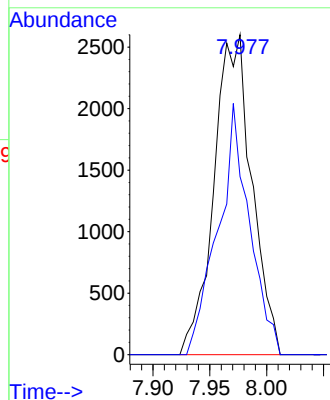
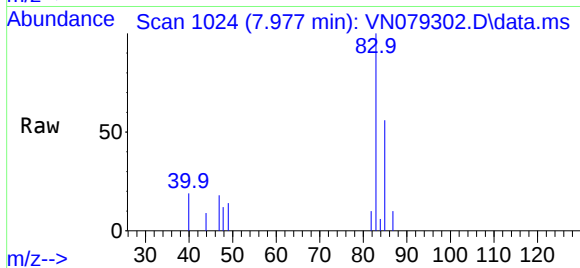
ClientSampleId :

Tgt Ion: 83 Resp: 6031

Ion Ratio Lower Upper

83 100

85 55.6 50.6 76.0



#27

1,2-Dichloroethane-d4

Concen: 28.912 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN079302.D

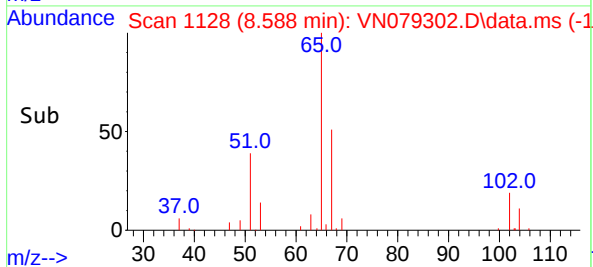
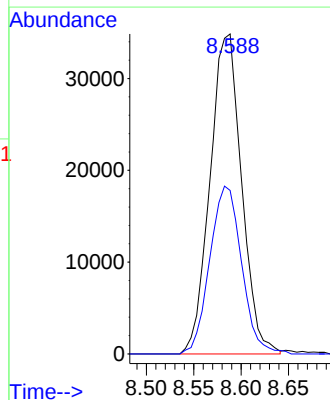
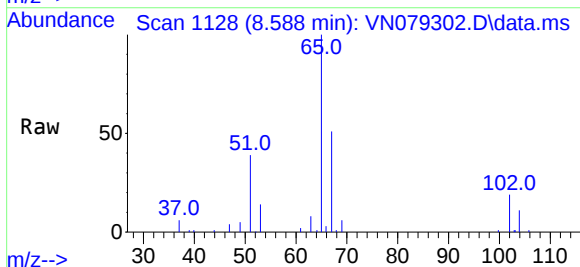
Acq: 19 Sep 2023 14:52

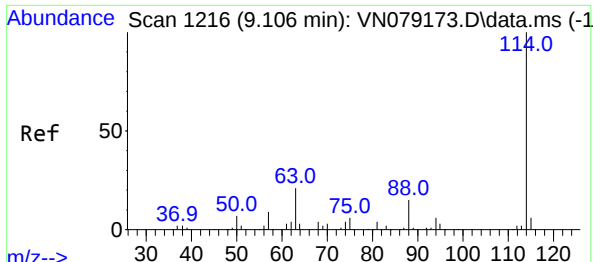
Tgt Ion: 65 Resp: 80846

Ion Ratio Lower Upper

65 100

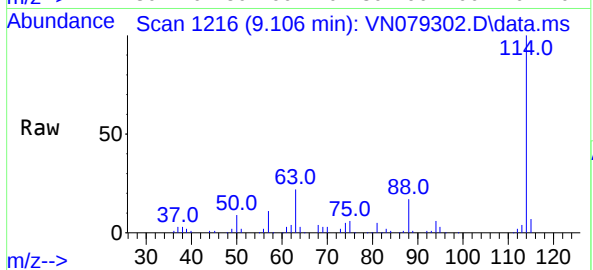
67 52.9 44.4 66.6



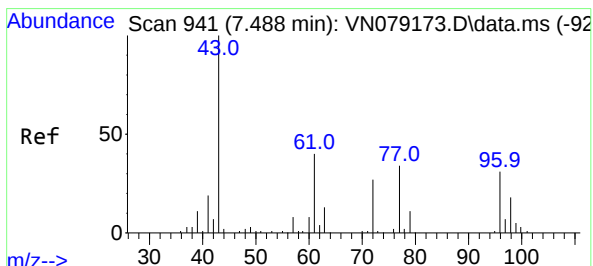
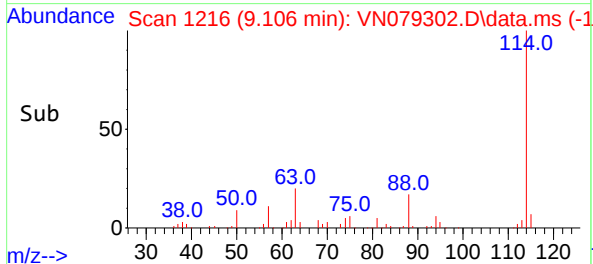
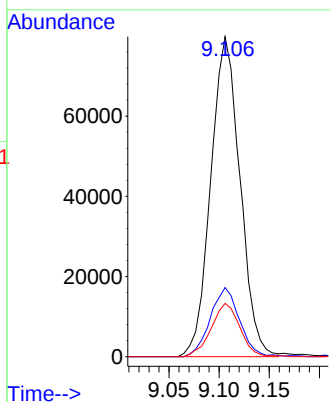


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Instrument :
MSVOA_N
ClientSampleId :

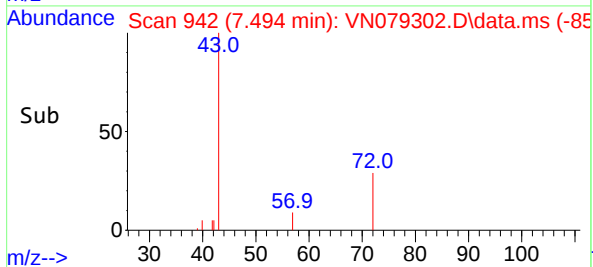
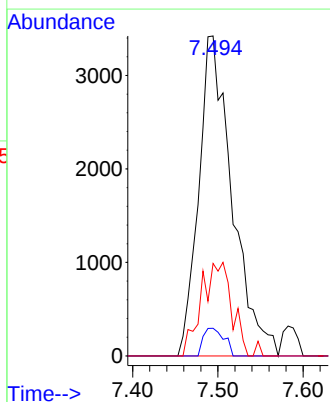
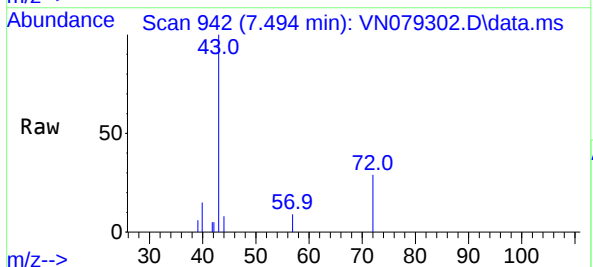


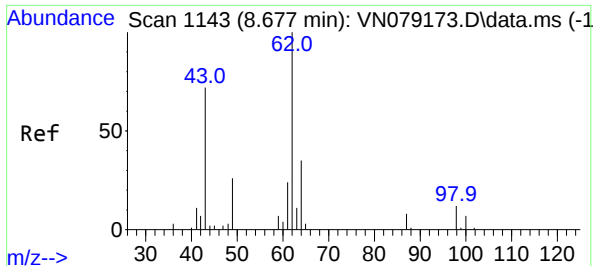
Tgt Ion:114 Resp: 161987
Ion Ratio Lower Upper
114 100
63 21.4 17.0 25.4
88 16.2 12.8 19.2



#30
2-Butanone
Concen: 7.136 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 43 Resp: 9322
Ion Ratio Lower Upper
43 100
57 5.4 6.8 10.2#
72 24.5 22.4 33.6

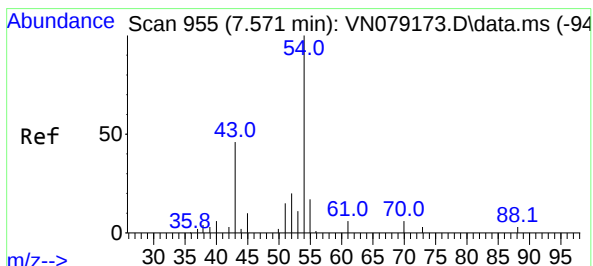
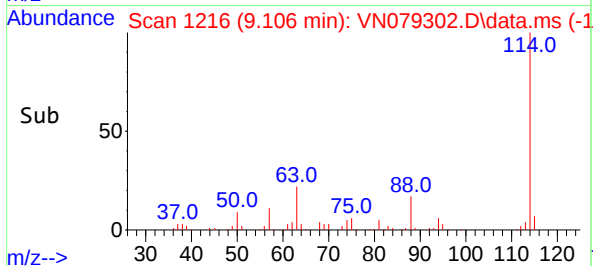
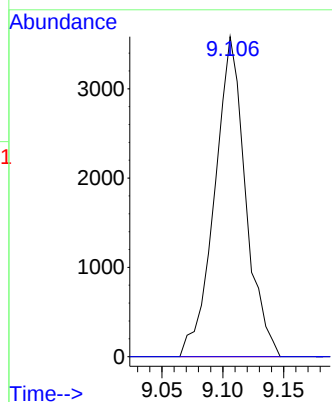
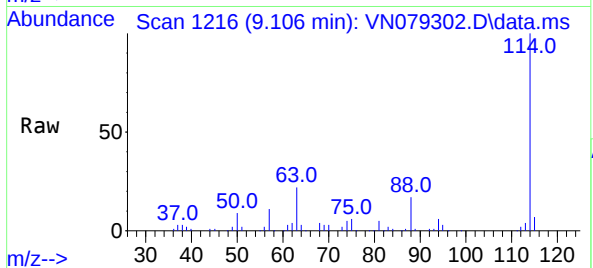




#36
1,2-Dichloroethane
Concen: 2.332 ug/l
RT: 9.106 min Scan# 1143
Delta R.T. 0.429 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

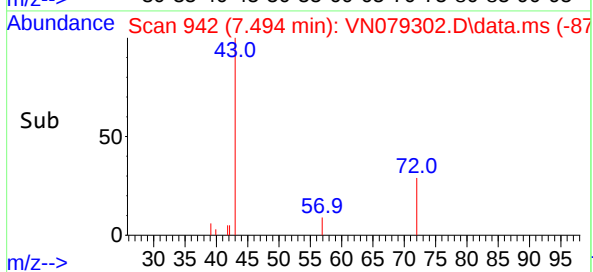
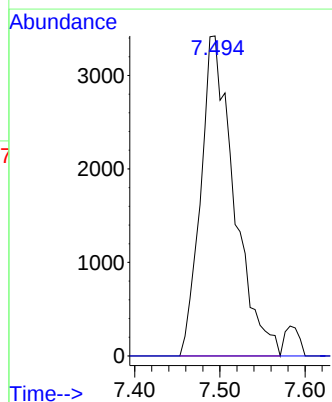
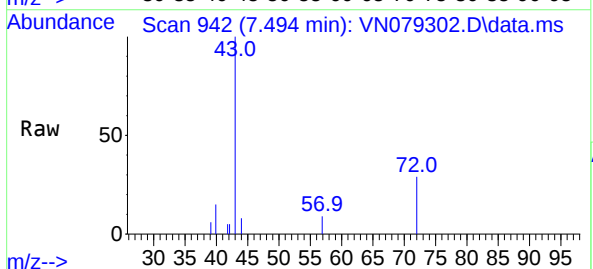
Instrument :
MSVOA_N
ClientSampleId :

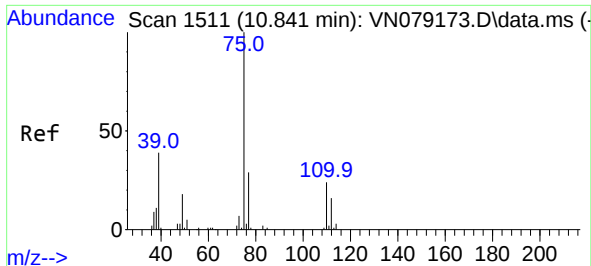
Tgt Ion: 62 Resp: 6346
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



#43
Ethyl Acetate
Concen: 3.757 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.077 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 43 Resp: 9322
Ion Ratio Lower Upper
43 100
45 0.0 11.1 16.7#





#48

t-1,3-Dichloropropene

Concen: 0.456 ug/l

RT: 10.641 min Scan# 1493

Delta R.T. -0.200 min

Lab File: VN079302.D

Acq: 19 Sep 2023 14:52

Instrument :

MSVOA_N

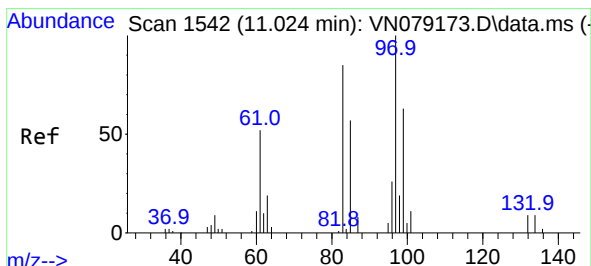
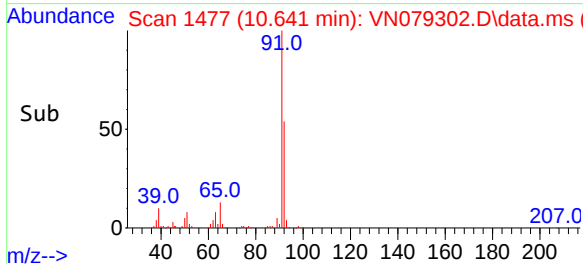
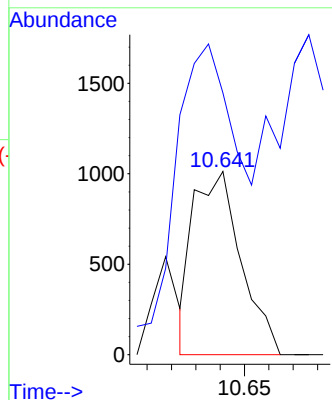
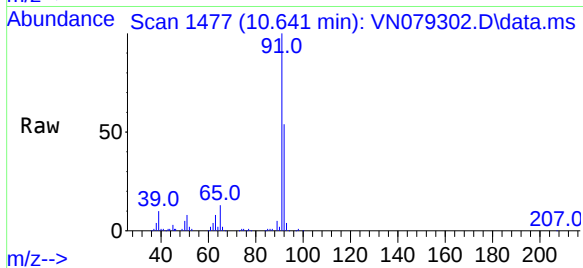
ClientSampleId :

Tgt Ion: 75 Resp: 1381

Ion Ratio Lower Upper

75 100

77 30.2 22.9 34.3



#50

1,1,2-Trichloroethane

Concen: 0.857 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.289 min

Lab File: VN079302.D

Acq: 19 Sep 2023 14:52

Tgt Ion: 97 Resp: 1687

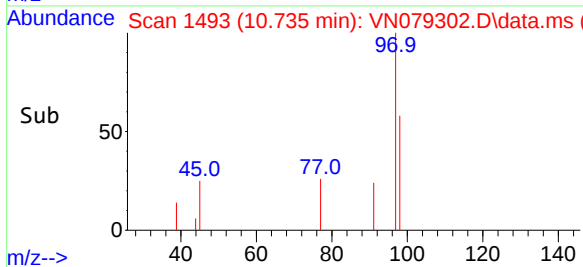
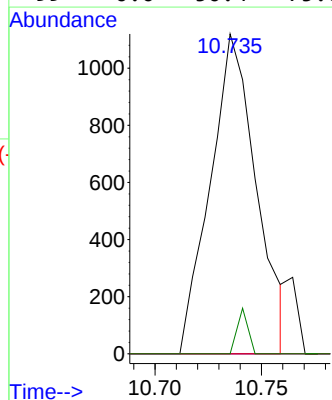
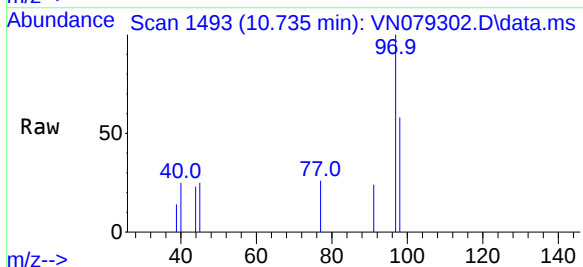
Ion Ratio Lower Upper

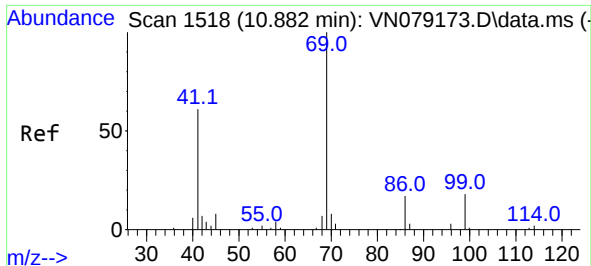
97 100

83 0.0 68.9 103.3#

85 0.0 45.3 67.9#

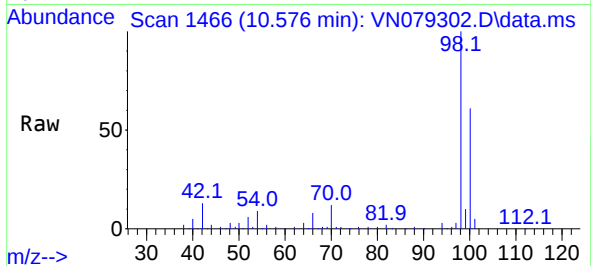
99 0.0 50.4 75.6#



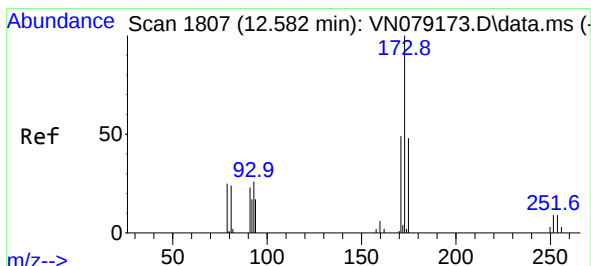
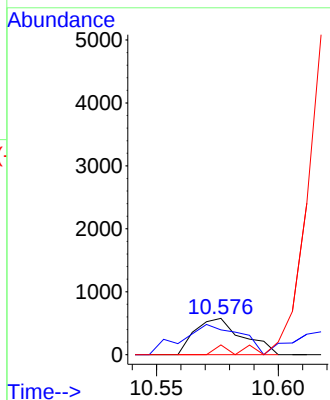
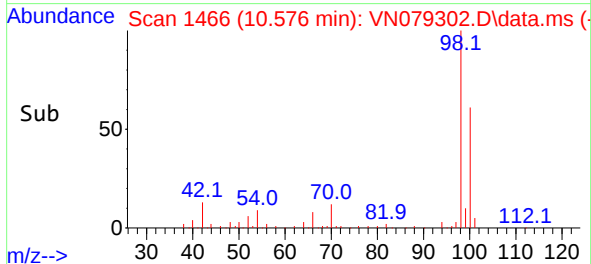


#51
Ethyl methacrylate
Concen: 0.258 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.306 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Instrument :
MSVOA_N
ClientSampleId :

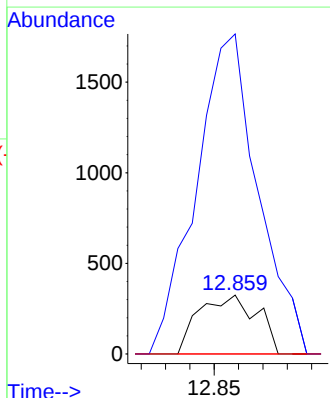
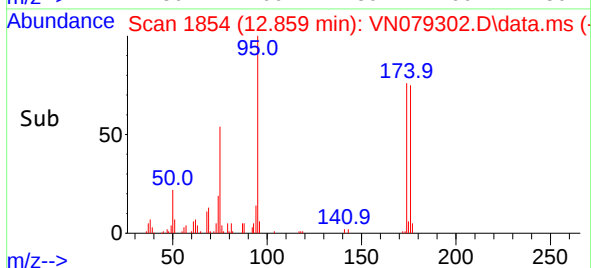
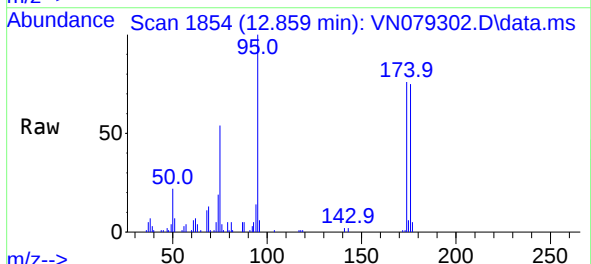


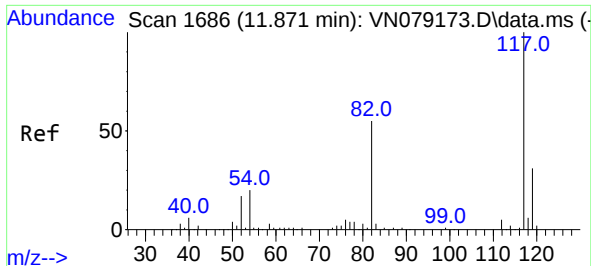
Tgt Ion: 69 Resp: 784
Ion Ratio Lower Upper
69 100
41 37.8 30.3 90.9
39 26.9 13.4 40.1



#56
Bromoform
Concen: 0.374 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.277 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

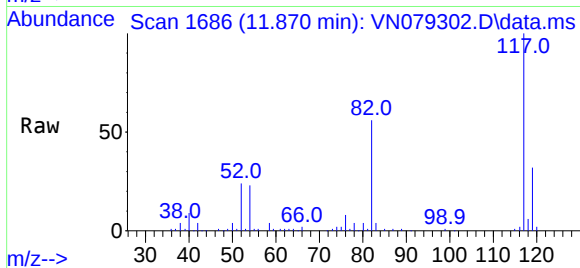
Tgt Ion:173 Resp: 538
Ion Ratio Lower Upper
173 100
175 581.6 37.6 56.4#
254 0.0 7.8 11.8#



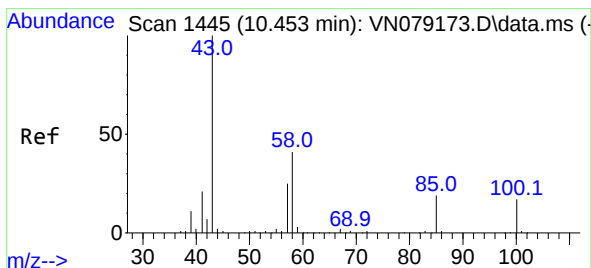
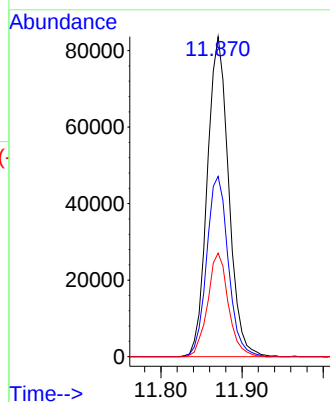
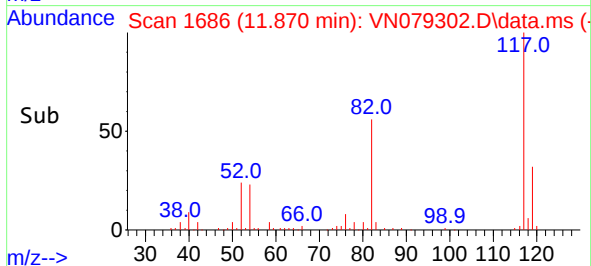


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Instrument :
MSVOA_N
ClientSampleId :

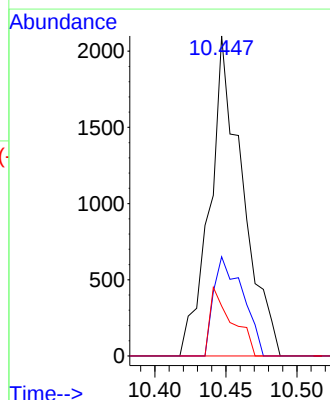
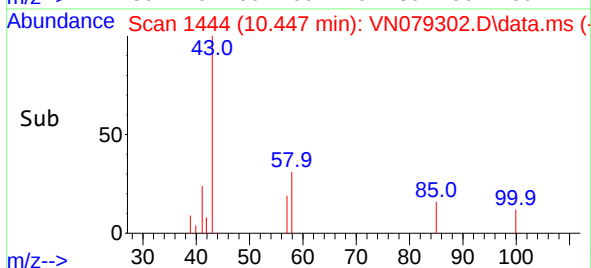
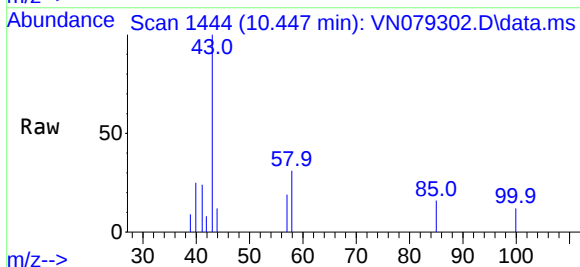


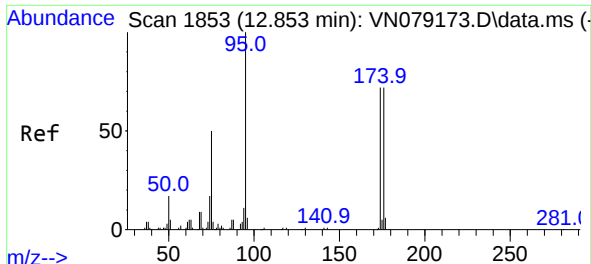
Tgt Ion:117 Resp: 153195
Ion Ratio Lower Upper
117 100
82 56.9 44.7 67.1
119 31.4 24.9 37.3



#58
4-Methyl-2-Pentanone
Concen: 1.196 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 43 Resp: 3361
Ion Ratio Lower Upper
43 100
58 27.6 33.6 50.4#
85 12.5 15.0 22.4#

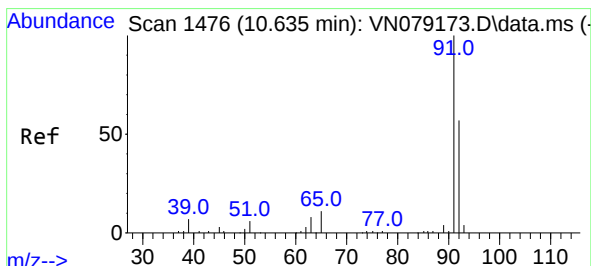
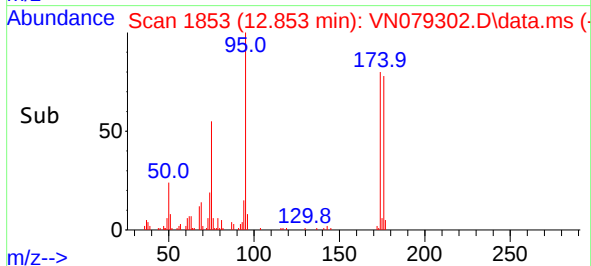
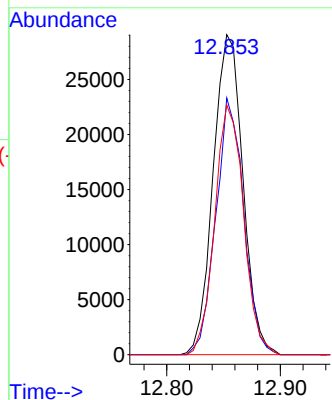
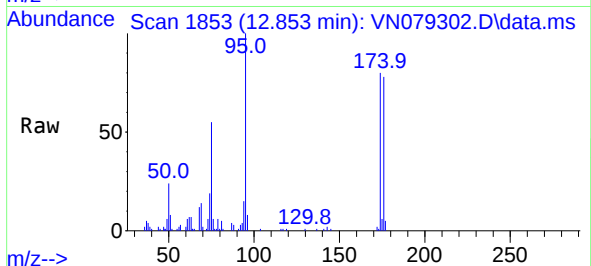




#60
4-Bromofluorobenzene
Concen: 23.479 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

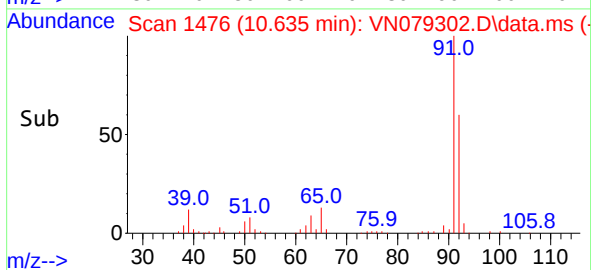
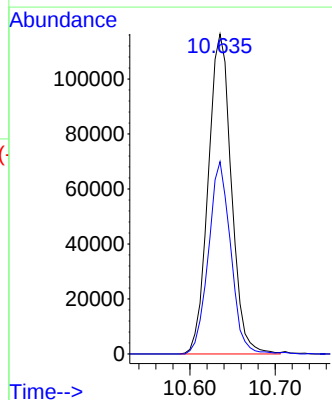
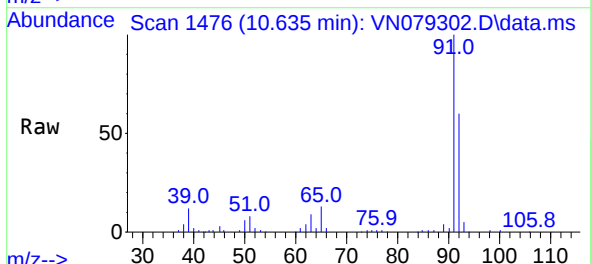
Instrument :
MSVOA_N
ClientSampleId :

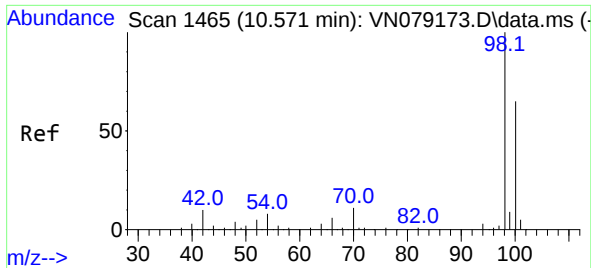
Tgt Ion: 95 Resp: 52998
Ion Ratio Lower Upper
95 100
174 75.2 59.5 89.3
176 75.5 59.1 88.7



#62
Toluene
Concen: 24.657 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

Tgt Ion: 91 Resp: 219931
Ion Ratio Lower Upper
91 100
92 57.6 45.7 68.5

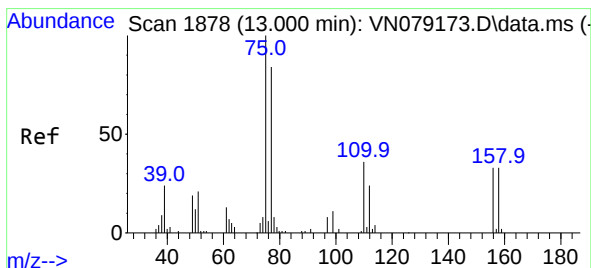
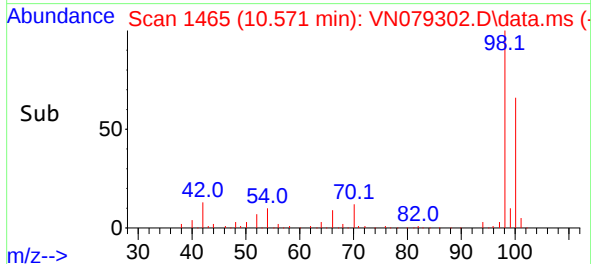
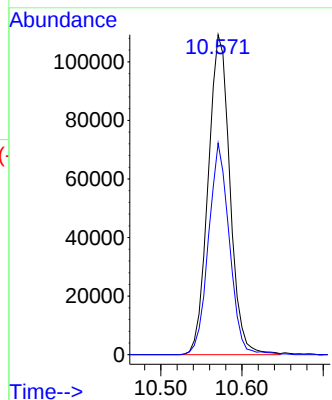
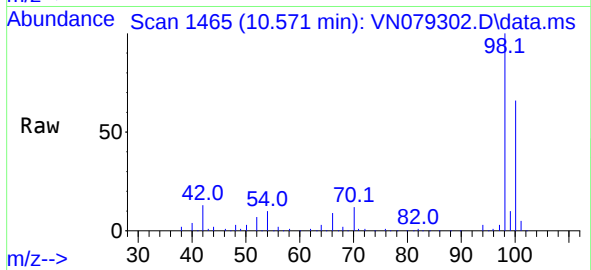




#63
Toluene-d8
Concen: 28.412 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

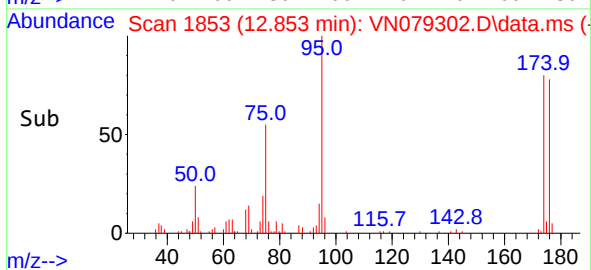
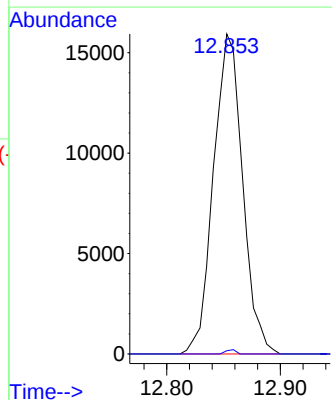
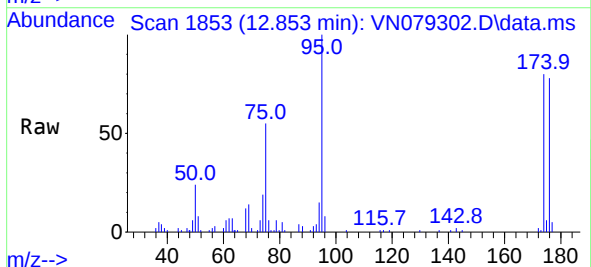
Instrument :
MSVOA_N
ClientSampleId :

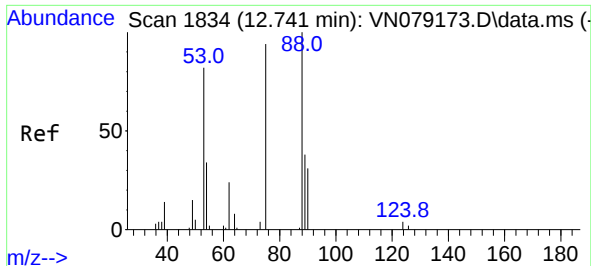
Tgt Ion: 98 Resp: 203410
Ion Ratio Lower Upper
98 100
100 63.3 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.887 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

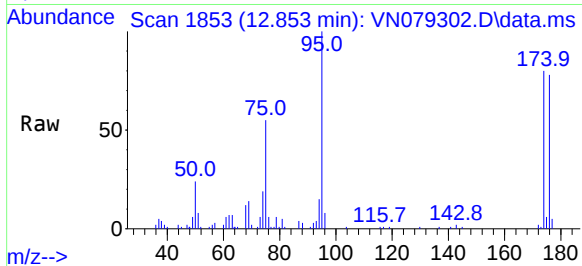
Tgt Ion: 75 Resp: 28386
Ion Ratio Lower Upper
75 100
77 0.5 0.0 252.2



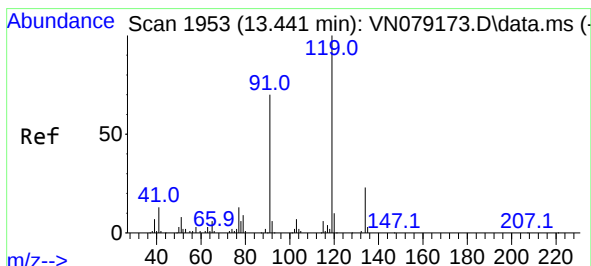
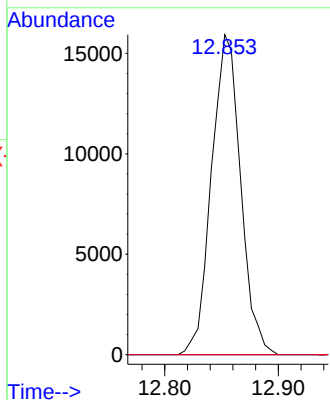
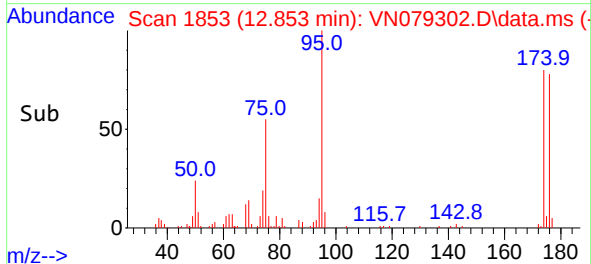


#77
t-1,4-Dichloro-2-butene
Concen: 30.921 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52

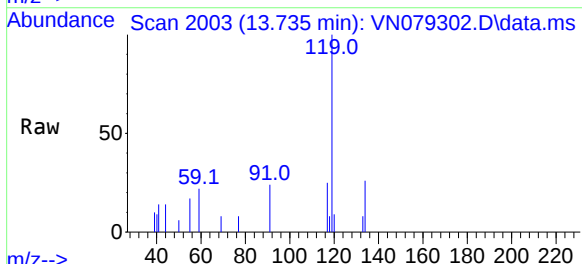
Instrument :
MSVOA_N
ClientSampleId :



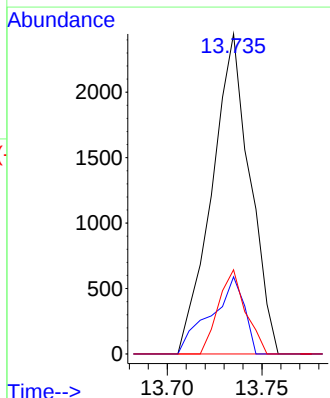
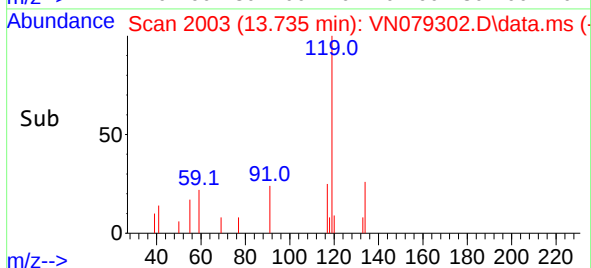
Tgt Ion: 75 Resp: 28386
Ion Ratio Lower Upper
75 100
53 0.0 44.1 132.4#
89 0.0 22.4 67.3#

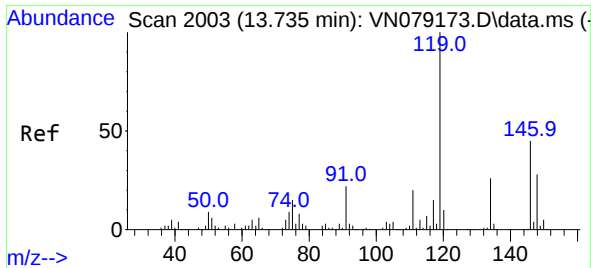


#79
tert-butylbenzene
Concen: 0.608 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN079302.D
Acq: 19 Sep 2023 14:52



Tgt Ion: 119 Resp: 3420
Ion Ratio Lower Upper
119 100
91 21.1 0.0 130.8
134 18.8 0.0 48.8





#82

p-Isopropyltoluene

Concen: 0.563 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

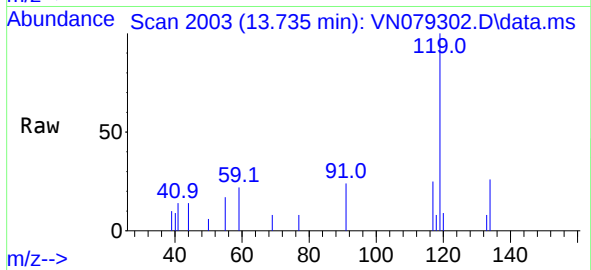
Lab File: VN079302.D

Acq: 19 Sep 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:119 Resp: 3420

Ion	Ratio	Lower	Upper
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119	100		
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134	18.8	0.0	53.8
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91	21.1	0.0	48.0
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