

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN080019.D
 Acq On : 09 Nov 2023 02:41
 Operator : JC\MD
 Sample : 05249-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 09 04:34:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

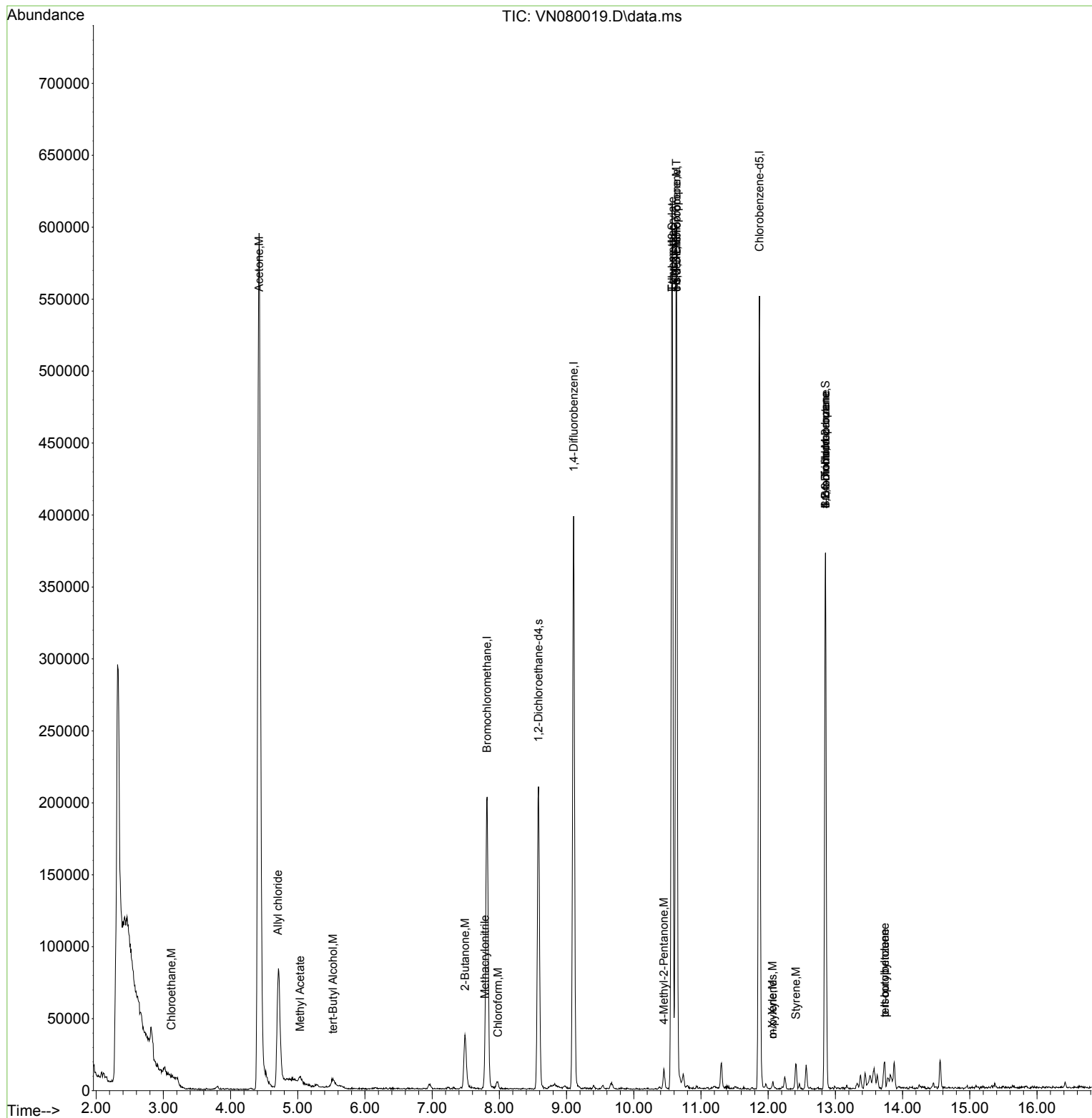
Internal Standards						
1) Bromochloromethane	7.818	128	68270	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	323761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	319067	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	172307	30.067	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.233%
60) 4-Bromofluorobenzene	12.853	95	128957	25.274	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.233%
63) Toluene-d8	10.571	98	419576	27.753	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.500%
Target Compounds						
					Qvalue	
6) Chloroethane	3.118	64	786	0.289	ug/l #	55
12) Methyl Acetate	5.036	43	6846	0.751	ug/l #	83
15) Acetone	4.424	58	351567	481.034	ug/l	80
17) Allyl chloride	4.706	41	7969	1.297	ug/l	94
23) tert-Butyl Alcohol	5.524	59	5958	10.198	ug/l #	100
25) Chloroform	7.977	83	4880	0.552	ug/l	85
30) 2-Butanone	7.488	43	59649	22.478	ug/l #	96
35) Methacrylonitrile	7.783	41	896	0.322	ug/l #	51
48) t-1,3-Dichloropropene	10.635	75	3426	0.574	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	3426	0.519	ug/l #	1
51) Ethyl methacrylate	10.571	69	1514	0.273	ug/l	90
56) Bromoform	12.853	173	1102	0.408	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	9180	1.722	ug/l	96
62) Toluene	10.635	91	451794	24.482	ug/l	98
67) m/p-Xylenes	12.065	106	1494	0.207	ug/l	74
68) o-Xylene	12.065	106	1494	0.216	ug/l	65
69) Styrene	12.412	104	8697	0.759	ug/l #	87
72) 1,2,3-Trichloropropane	12.853	75	68696	12.576	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	68696	38.406	ug/l #	7
79) tert-butylbenzene	13.735	119	8273	0.740	ug/l	63
82) p-Isopropyltoluene	13.735	119	8273	0.645	ug/l	94

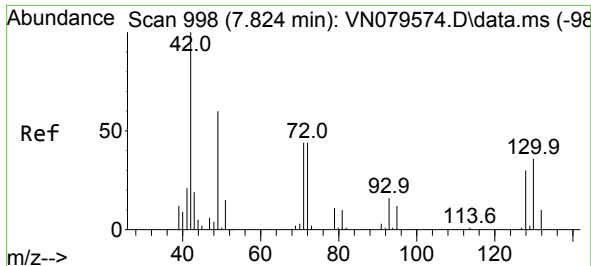
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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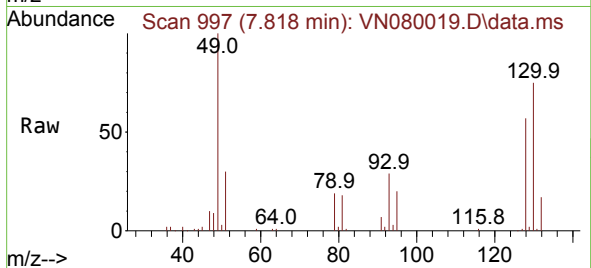
Quant Time: Nov 09 04:34:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Nov 09 04:02:05 2023
Response via : Initial Calibration



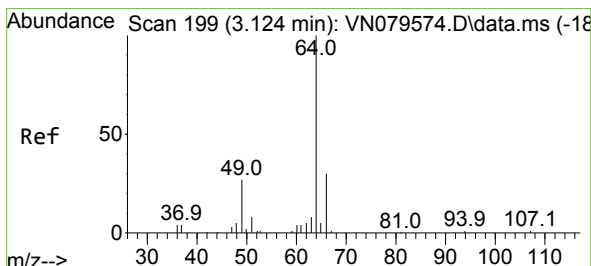
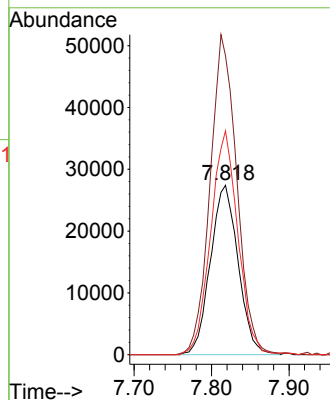
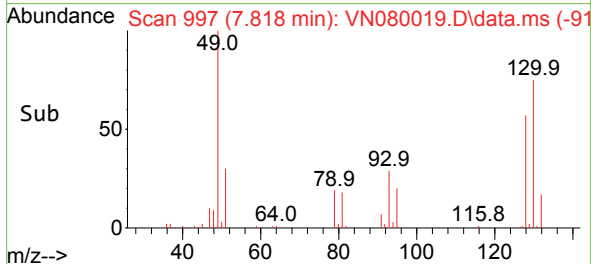


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

Instrument :
MSVOA_N
ClientSampleId :

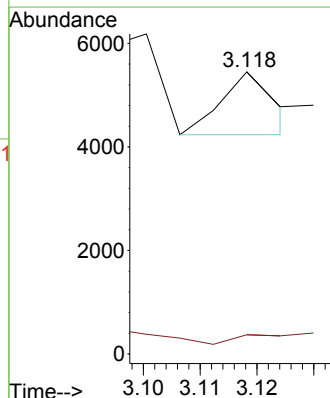
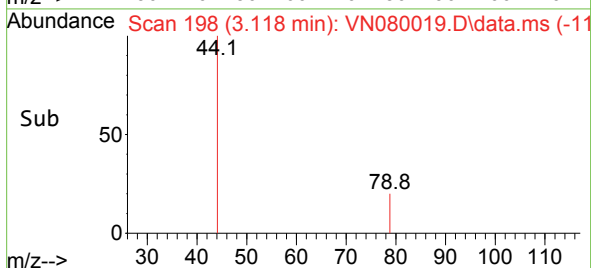
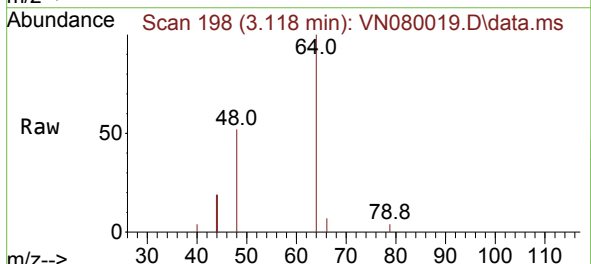


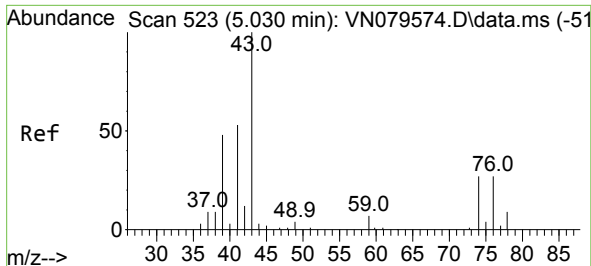
Tgt Ion:128 Resp: 68270
Ion Ratio Lower Upper
128 100
49 181.4 0.0 468.5
130 129.4 0.0 320.7



#6
Chloroethane
Concen: 0.289 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

Tgt Ion: 64 Resp: 786
Ion Ratio Lower Upper
64 100
66 5.2 23.3 34.9#

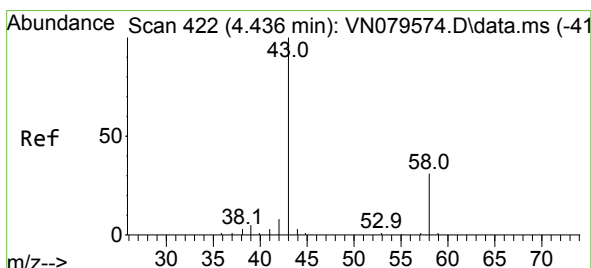
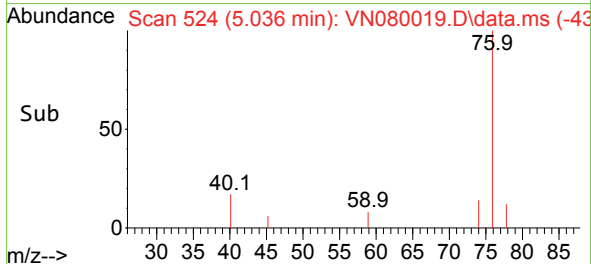
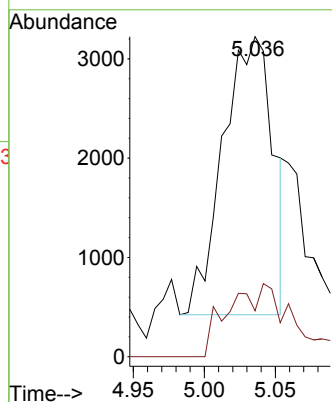
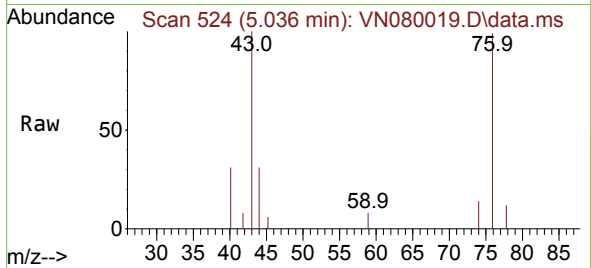




#12
Methyl Acetate
Concen: 0.751 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

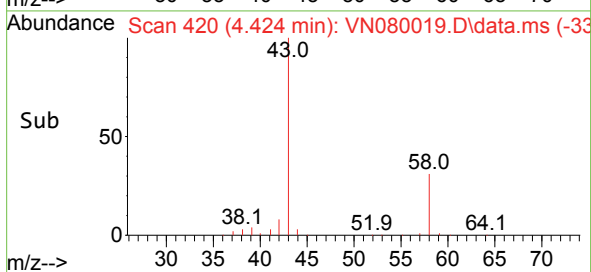
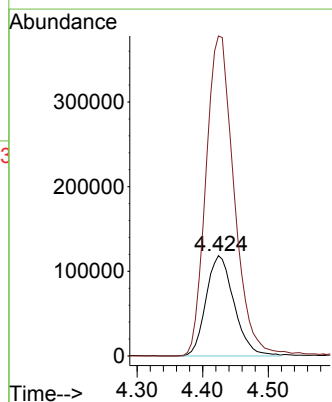
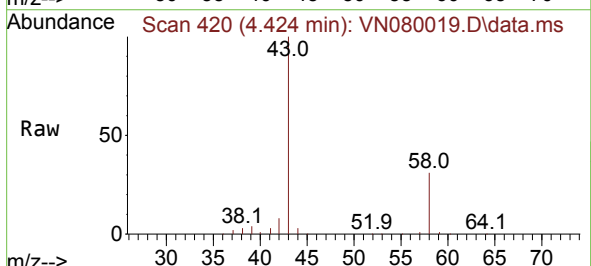
Instrument :
MSVOA_N
ClientSampleId :

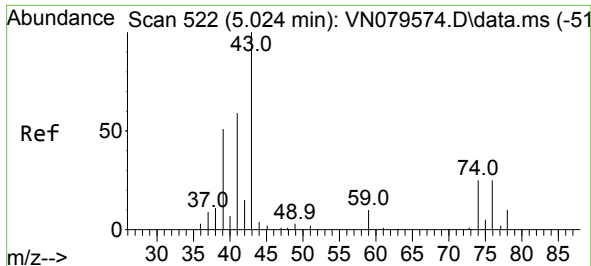
Tgt Ion: 43 Resp: 6846
Ion Ratio Lower Upper
43 100
74 14.5 18.1 27.1#



#15
Acetone
Concen: 481.034 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.012 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

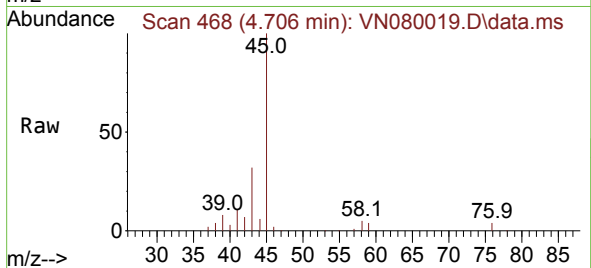
Tgt Ion: 58 Resp: 351567
Ion Ratio Lower Upper
58 100
43 318.7 225.2 337.8



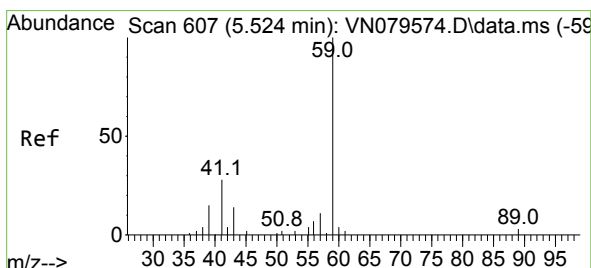
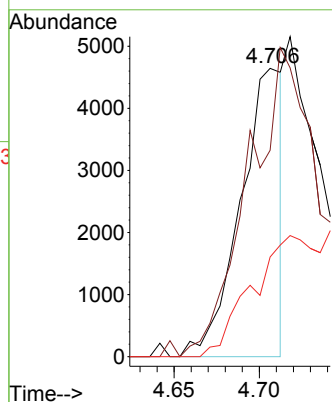
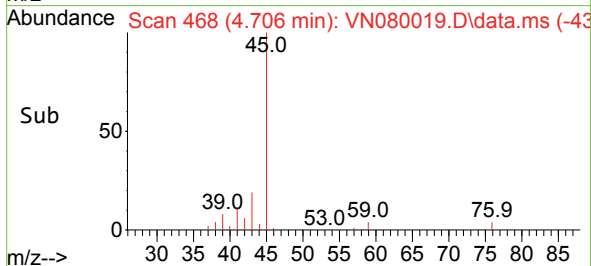


#17
 Allyl chloride
 Concen: 1.297 ug/l
 RT: 4.706 min Scan# 41
 Delta R.T. -0.318 min
 Lab File: VN080019.D
 Acq: 09 Nov 2023 02:41

Instrument :
 MSVOA_N
 ClientSampleId :

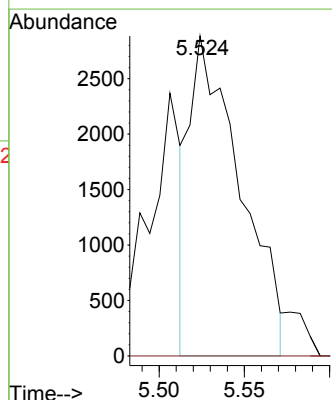
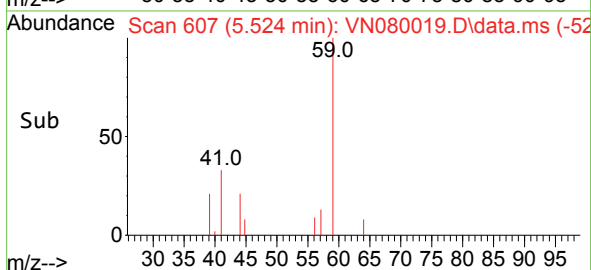
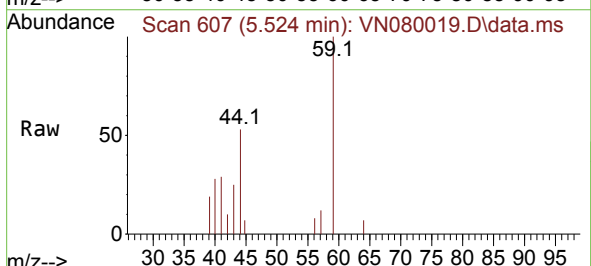


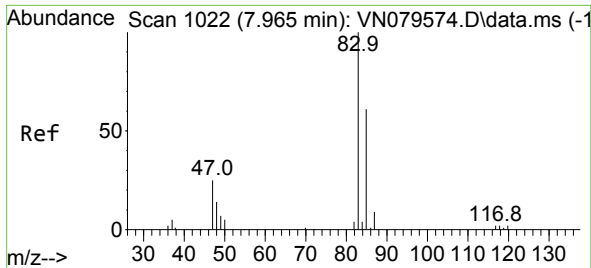
Tgt Ion: 41 Resp: 7969
 Ion Ratio Lower Upper
 41 100
 39 71.6 38.4 115.2
 76 34.6 19.5 58.5



#23
 tert-Butyl Alcohol
 Concen: 10.198 ug/l
 RT: 5.524 min Scan# 607
 Delta R.T. -0.000 min
 Lab File: VN080019.D
 Acq: 09 Nov 2023 02:41

Tgt Ion: 59 Resp: 5958
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

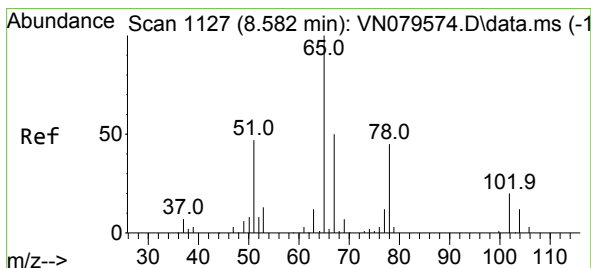
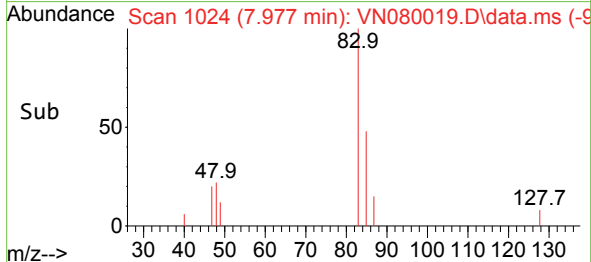
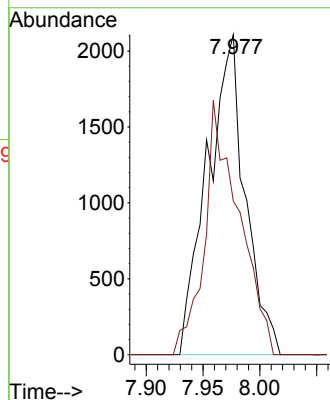
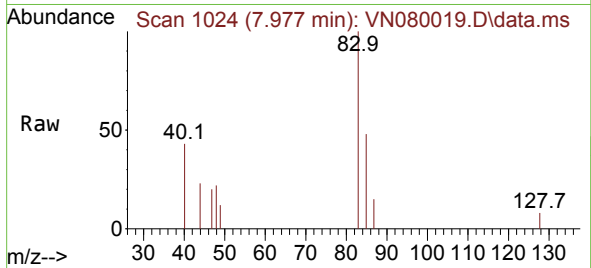




#25
Chloroform
Concen: 0.552 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.012 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

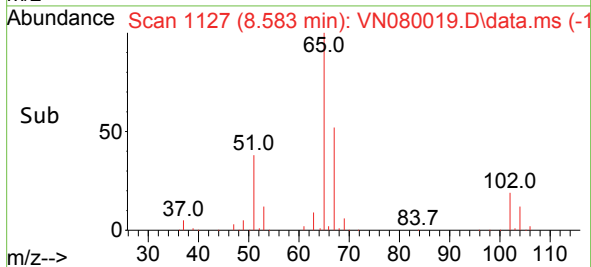
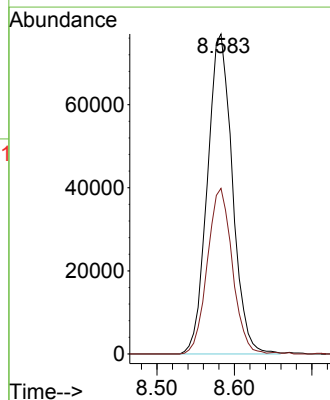
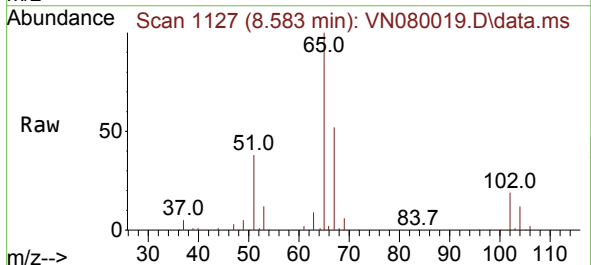
Instrument :
MSVOA_N
ClientSampleId :

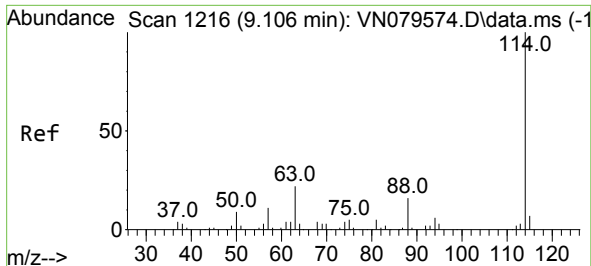
Tgt Ion: 83 Resp: 4880
Ion Ratio Lower Upper
83 100
85 48.0 47.4 71.2



#27
1,2-Dichloroethane-d4
Concen: 30.067 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.001 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

Tgt Ion: 65 Resp: 172307
Ion Ratio Lower Upper
65 100
67 51.6 42.1 63.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

Instrument :

MSVOA_N

ClientSampleId :

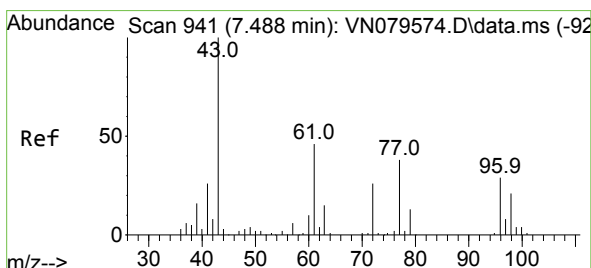
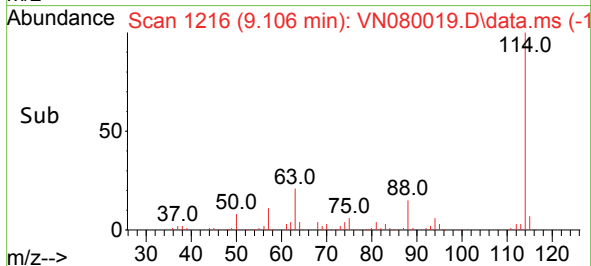
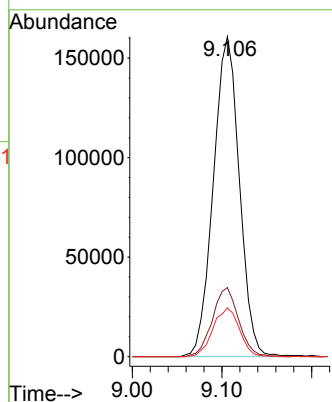
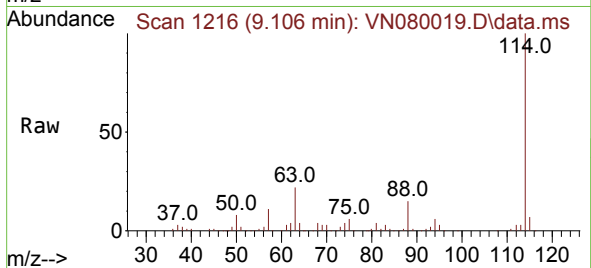
Tgt Ion:114 Resp: 323761

Ion Ratio Lower Upper

114 100

63 21.8 18.1 27.1

88 15.5 12.2 18.2



#30

2-Butanone

Concen: 22.478 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

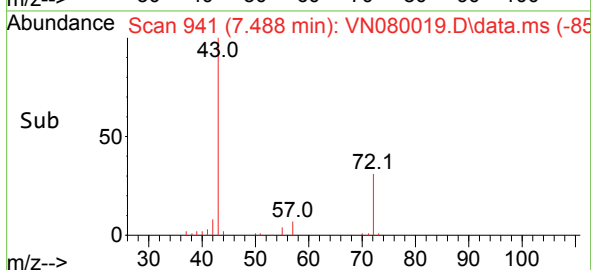
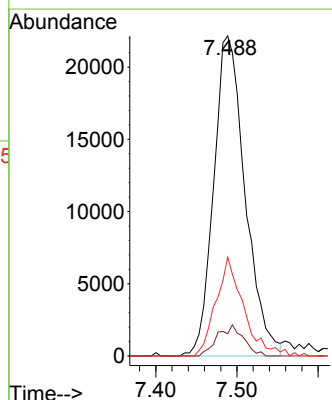
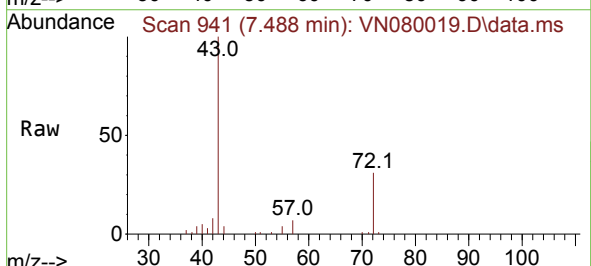
Tgt Ion: 43 Resp: 59649

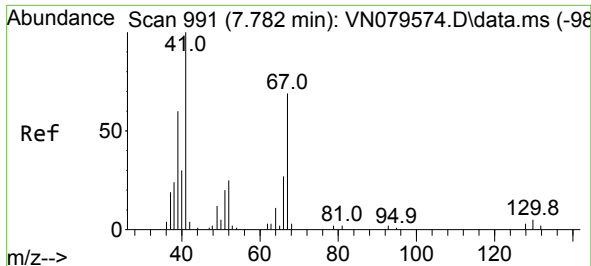
Ion Ratio Lower Upper

43 100

57 4.2 6.4 9.6#

72 24.9 20.7 31.1

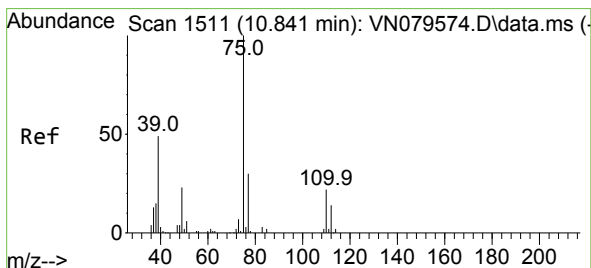
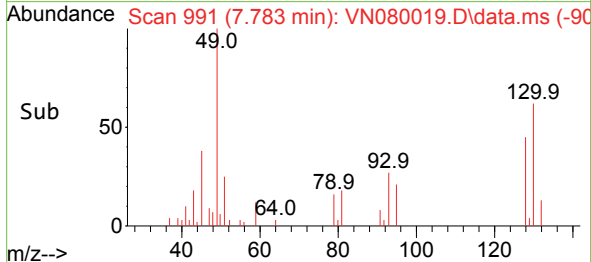
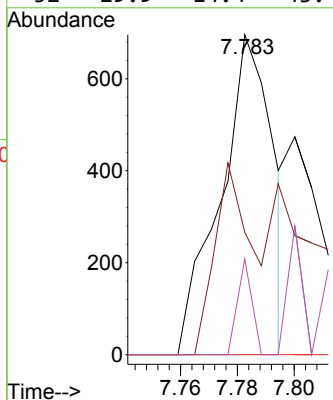
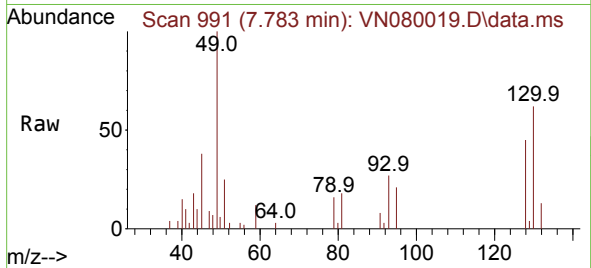




#35
Methacrylonitrile
Concen: 0.322 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.001 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

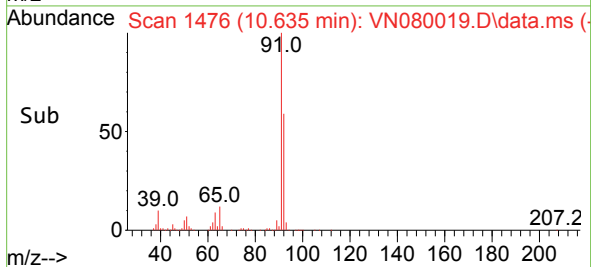
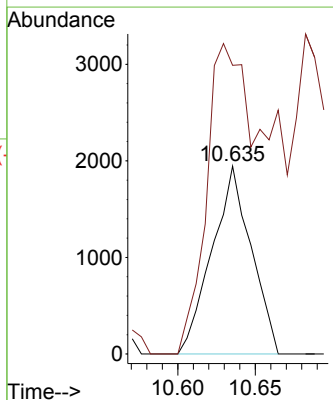
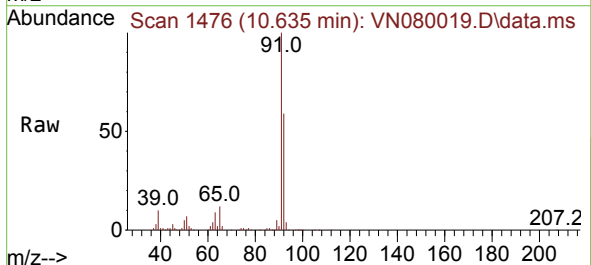
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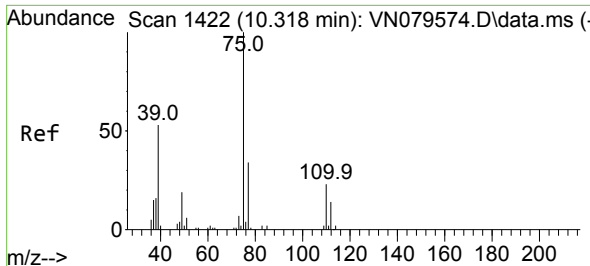
Tgt Ion: 41	Resp: 896
Ion Ratio	Lower Upper
41	100
39	38.2 26.3 78.8
67	0.0 37.5 112.3
52	29.9 14.4 43.4



#48
t-1,3-Dichloropropene
Concen: 0.574 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

Tgt Ion: 75	Resp: 3426
Ion Ratio	Lower Upper
75	100
77	153.6 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 0.519 ug/l

RT: 10.635 min Scan# 14

Delta R.T. 0.317 min

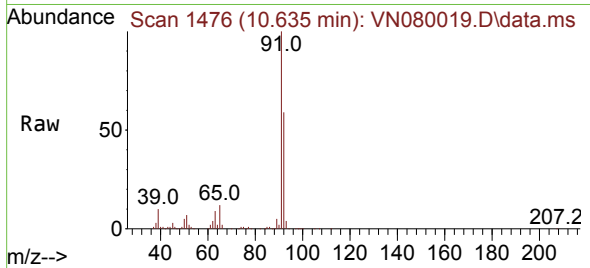
Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

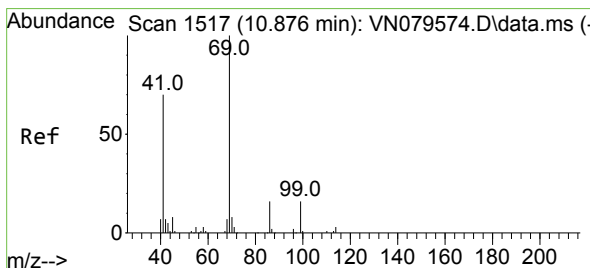
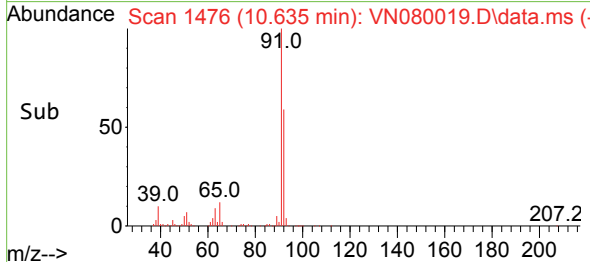
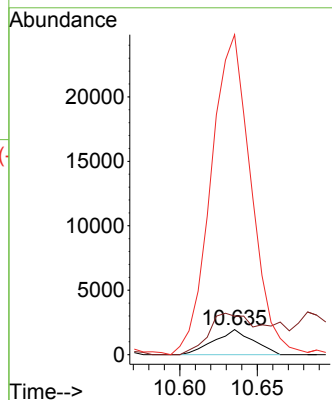
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	3426
Ion	Ratio	Lower	Upper
75	100		
77	153.6	25.8	38.6#
39	1242.4	42.4	63.6#



#51

Ethyl methacrylate

Concen: 0.273 ug/l

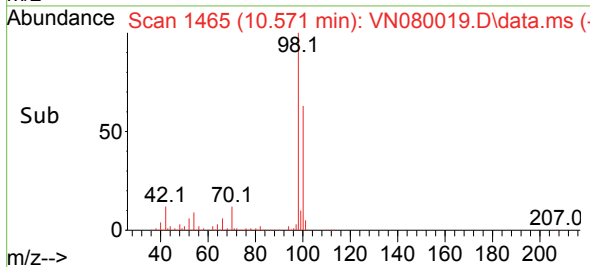
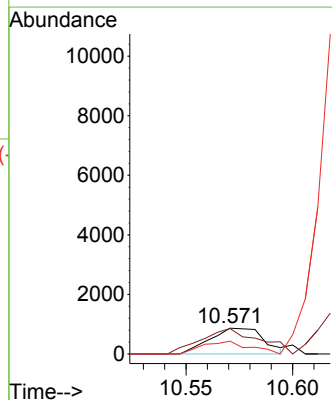
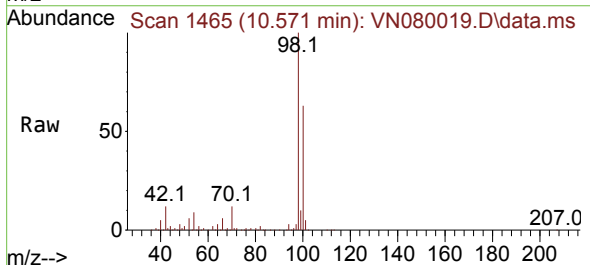
RT: 10.571 min Scan# 1465

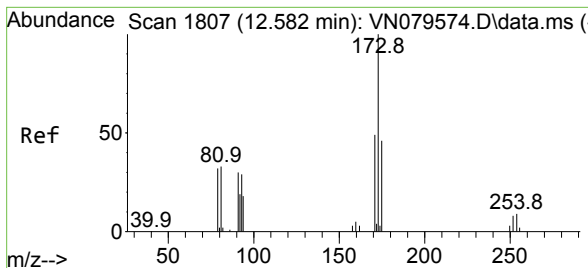
Delta R.T. -0.305 min

Lab File: VN080019.D

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Tgt Ion:	69	Resp:	1514
Ion	Ratio	Lower	Upper
69	100		
41	74.4	33.8	101.3
39	49.9	21.3	63.9





#56

Bromoform

Concen: 0.408 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

Instrument :

MSVOA_N

ClientSampleId :

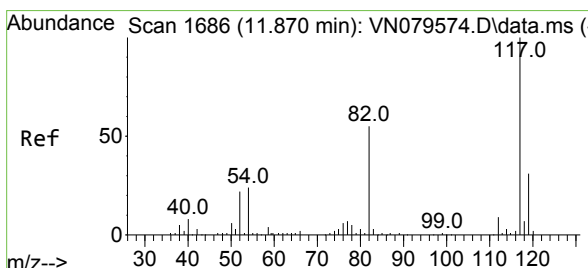
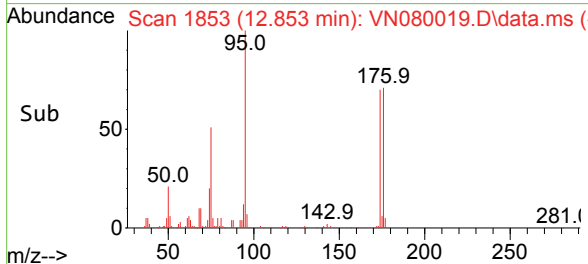
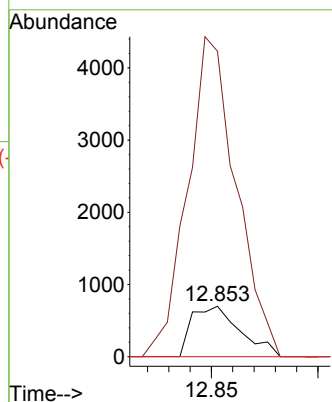
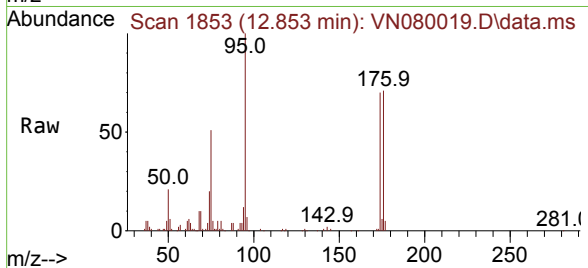
Tgt Ion:173 Resp: 1102

Ion Ratio Lower Upper

173 100

175 638.2 37.9 56.9#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.001 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

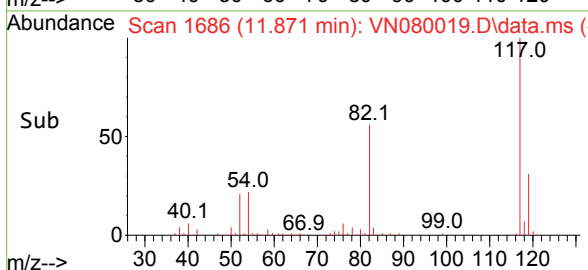
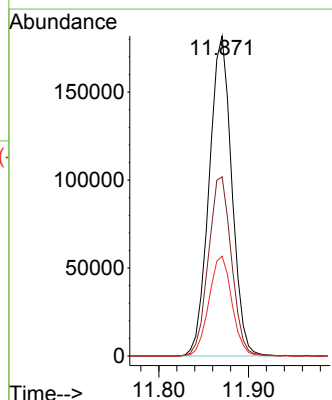
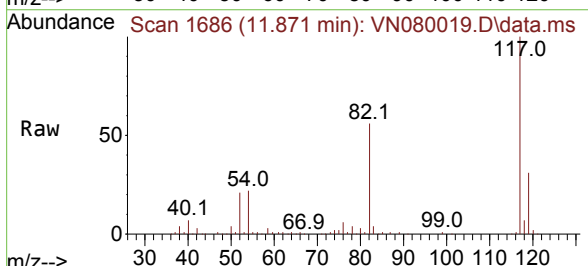
Tgt Ion:117 Resp: 319067

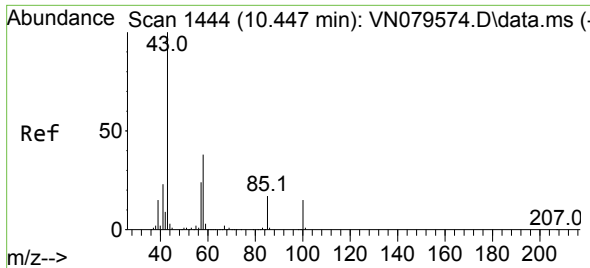
Ion Ratio Lower Upper

117 100

82 57.0 46.2 69.2

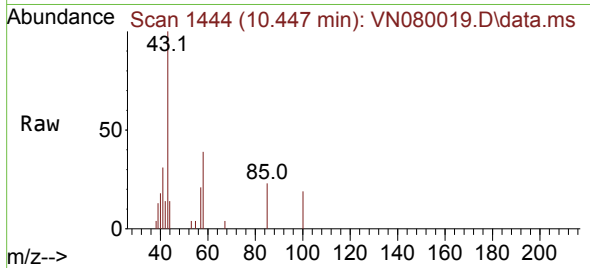
119 31.7 25.2 37.8



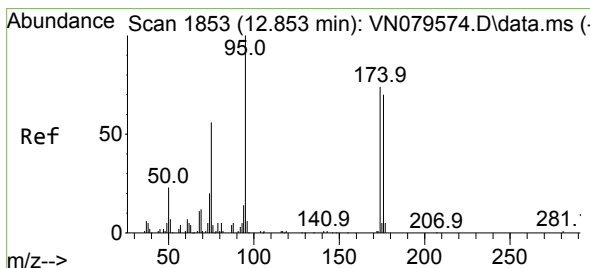
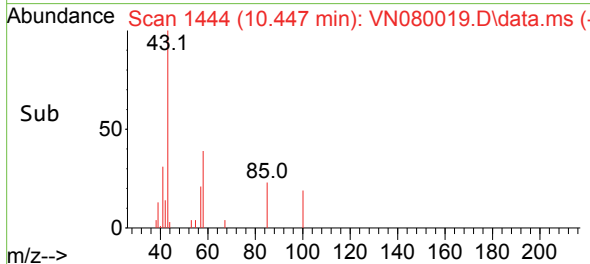
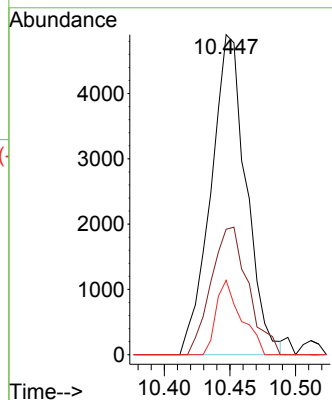


#58
 4-Methyl-2-Pentanone
 Concen: 1.722 ug/l
 RT: 10.447 min Scan# 1444
 Delta R.T. 0.000 min
 Lab File: VN080019.D
 Acq: 09 Nov 2023 02:41

Instrument :
 MSVOA_N
 ClientSampleId :

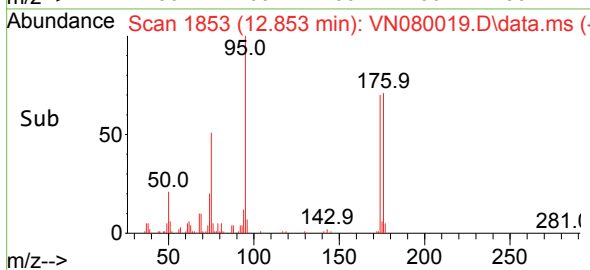
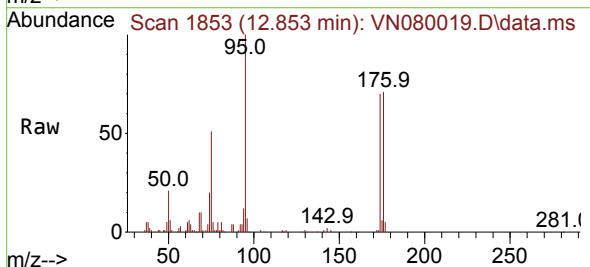
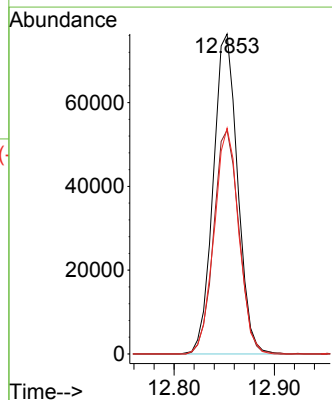


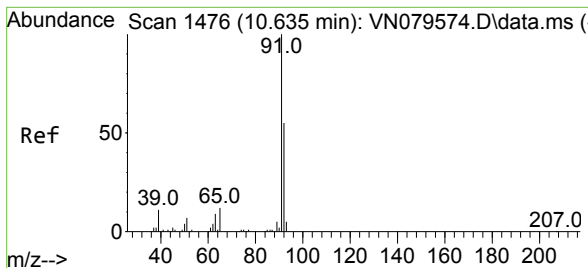
Tgt Ion:	43	Resp:	9180
Ion Ratio	Lower	Upper	
43	100		
58	41.8	30.4	45.6
85	16.5	13.2	19.8



#60
 4-Bromofluorobenzene
 Concen: 25.274 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN080019.D
 Acq: 09 Nov 2023 02:41

Tgt Ion:	95	Resp:	128957
Ion Ratio	Lower	Upper	
95	100		
174	72.4	60.5	90.7
176	71.4	57.2	85.8





#62

Toluene

Concen: 24.482 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

Instrument :

MSVOA_N

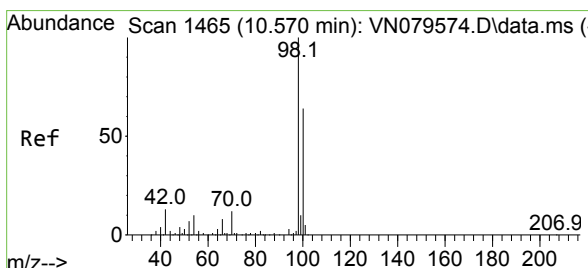
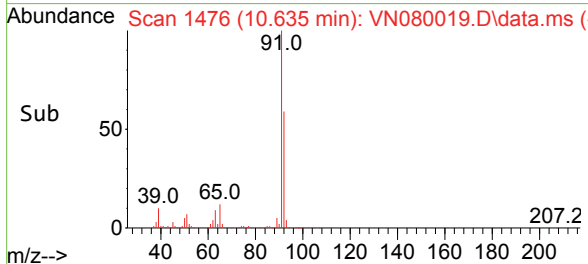
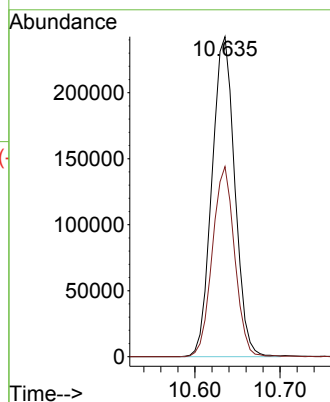
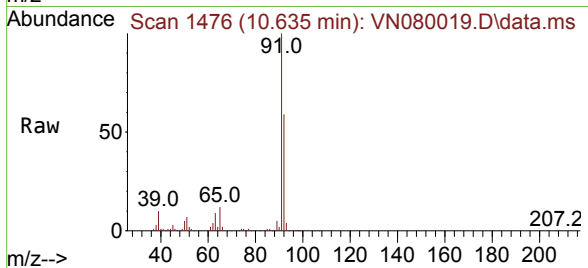
ClientSampleId :

Tgt Ion: 91 Resp: 451794

Ion Ratio Lower Upper

91 100

92 57.9 45.3 67.9



#63

Toluene-d8

Concen: 27.753 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.001 min

Lab File: VN080019.D

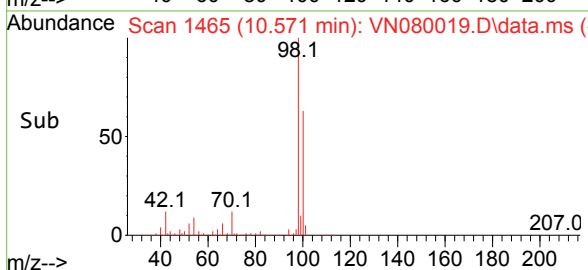
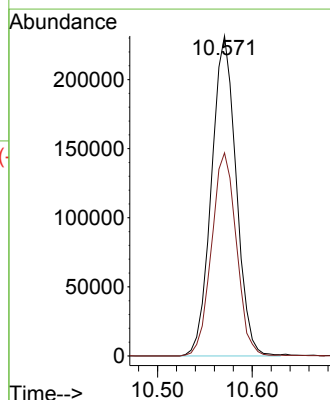
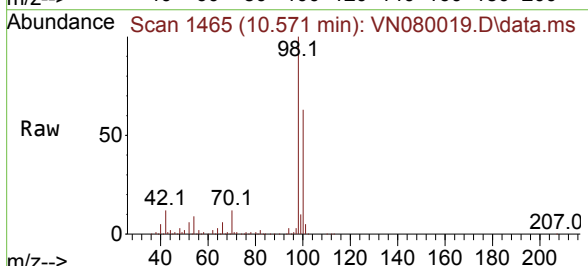
Acq: 09 Nov 2023 02:41

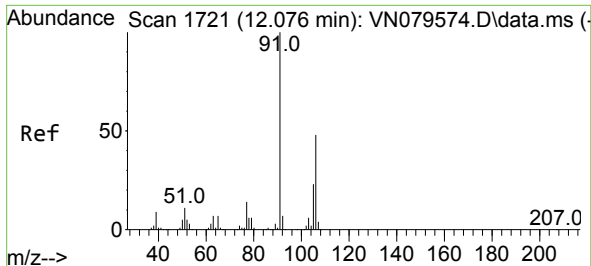
Tgt Ion: 98 Resp: 419576

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4

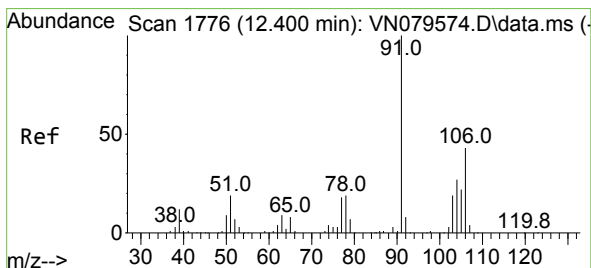
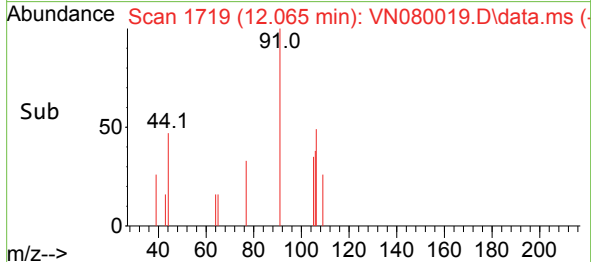
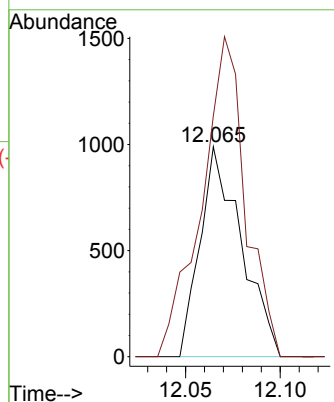
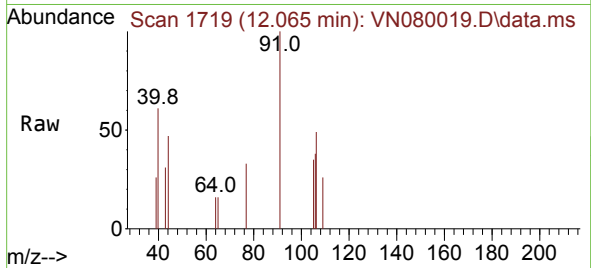




#67
m/p-Xylenes
Concen: 0.207 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.011 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

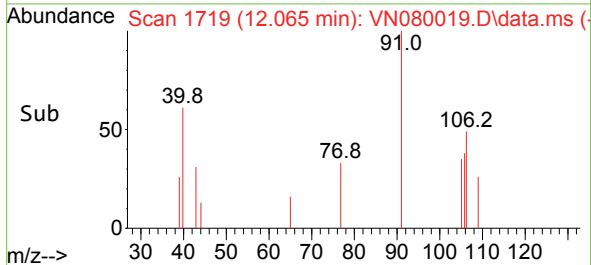
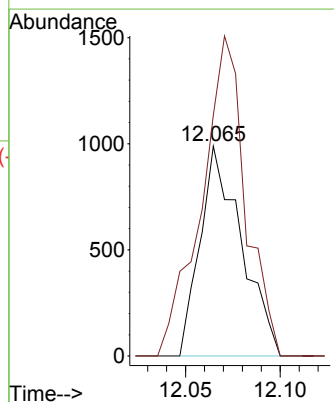
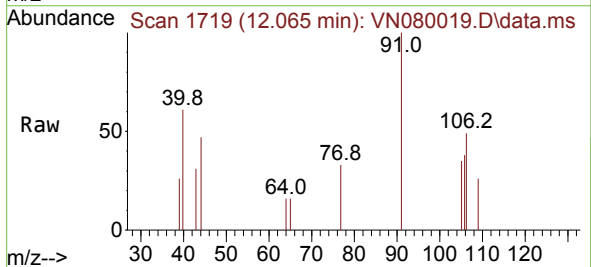
Instrument :
MSVOA_N
ClientSampleId :

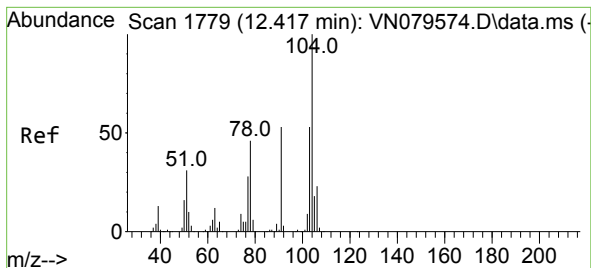
Tgt Ion:106 Resp: 1494
Ion Ratio Lower Upper
106 100
91 163.0 161.8 242.6



#68
o-Xylene
Concen: 0.216 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.335 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

Tgt Ion:106 Resp: 1494
Ion Ratio Lower Upper
106 100
91 163.0 109.9 329.7





#69

Styrene

Concen: 0.759 ug/l

RT: 12.412 min Scan# 11

Delta R.T. -0.005 min

Lab File: VN080019.D

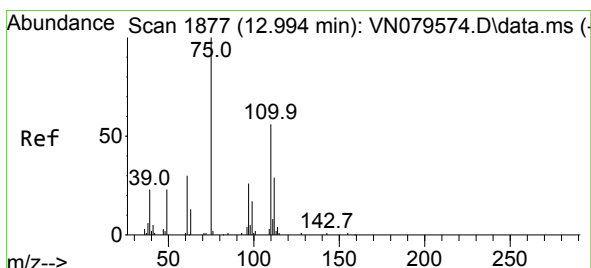
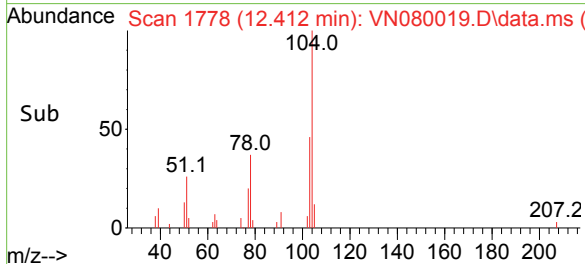
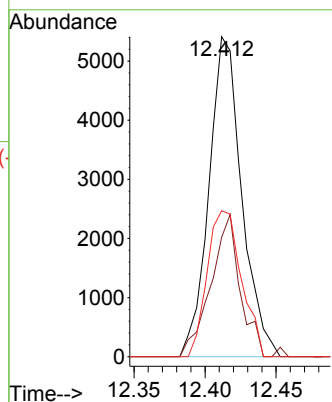
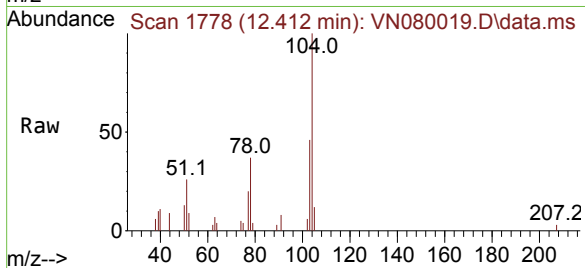
Acq: 09 Nov 2023 02:41

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:104 Resp: 8697
 Ion Ratio Lower Upper
 104 100
 78 39.5 41.2 61.8#
 103 47.5 43.1 64.7



#72

1,2,3-Trichloropropane

Concen: 12.576 ug/l

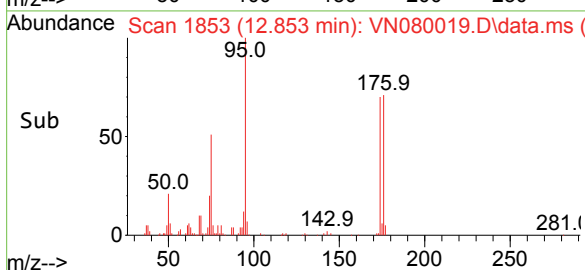
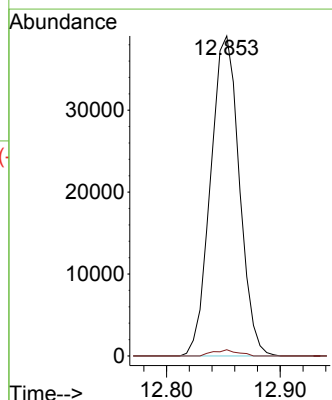
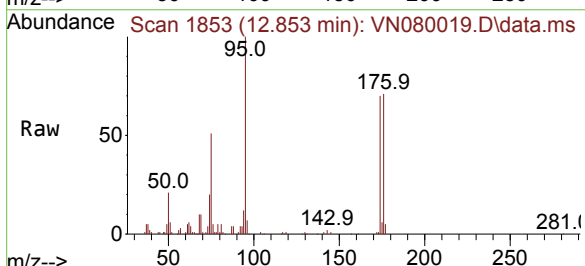
RT: 12.853 min Scan# 1853

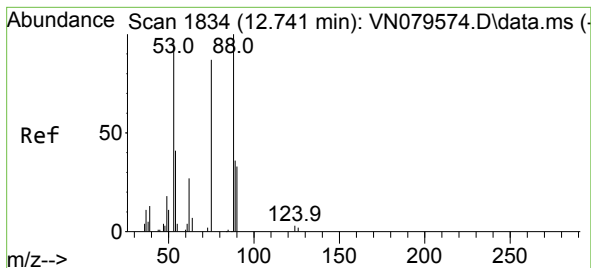
Delta R.T. -0.141 min

Lab File: VN080019.D

Acq: 09 Nov 2023 02:41

Tgt Ion: 75 Resp: 68696
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 338.2

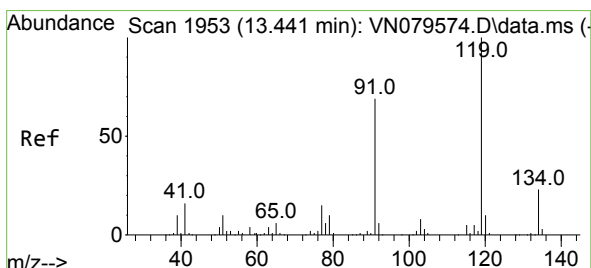
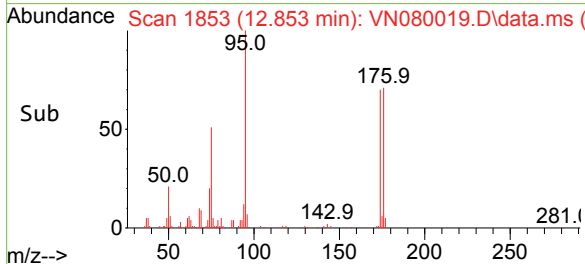
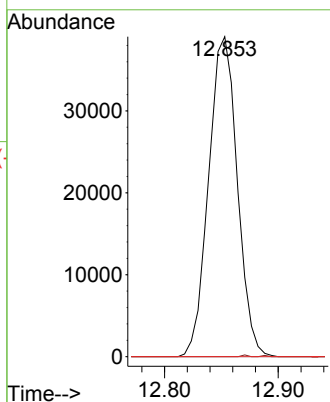
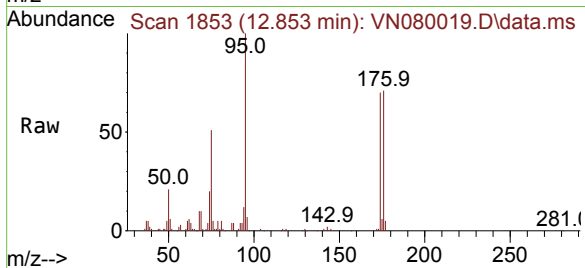




#77
t-1,4-Dichloro-2-butene
Concen: 38.406 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

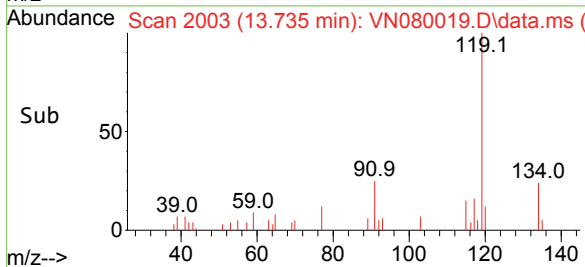
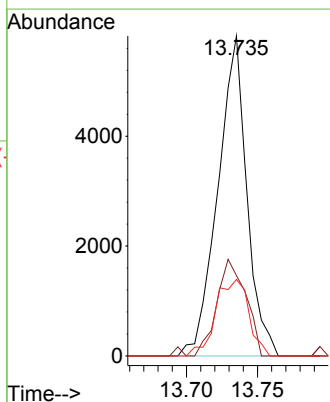
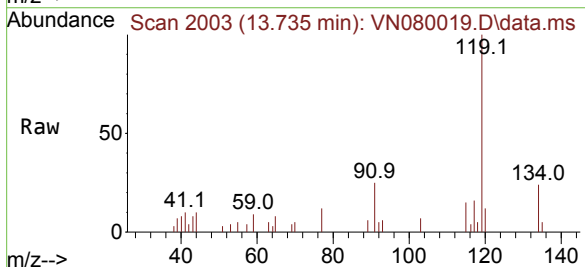
Instrument :
MSVOA_N
ClientSampleId :

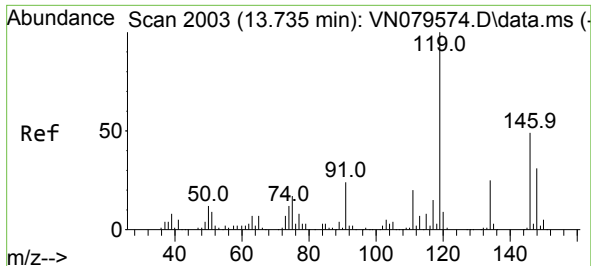
Tgt Ion: 75 Resp: 68696
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#



#79
tert-butylbenzene
Concen: 0.740 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN080019.D
Acq: 09 Nov 2023 02:41

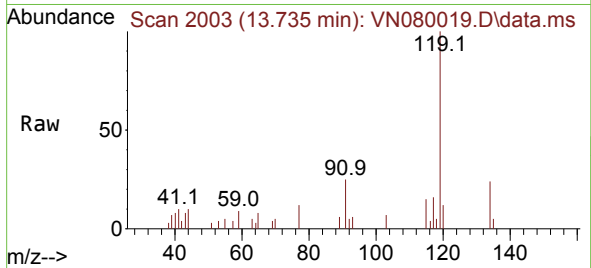
Tgt Ion: 119 Resp: 8273
Ion Ratio Lower Upper
119 100
91 30.2 0.0 140.6
134 27.2 0.0 49.8





#82
 p-Isopropyltoluene
 Concen: 0.645 ug/l
 RT: 13.735 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN080019.D
 Acq: 09 Nov 2023 02:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	119	Resp:	8273
Ion	Ratio	Lower	Upper
119	100		
134	27.2	0.0	52.2
91	30.2	0.0	50.0

