

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041924\
 Data File : VN081808.D
 Acq On : 19 Apr 2024 14:52
 Operator : JC\MD
 Sample : P2190-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 19 23:37:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

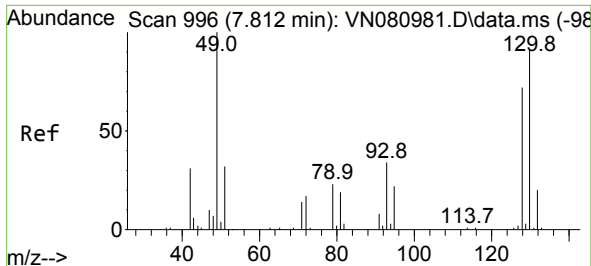
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.818	128	14523	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	82351	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	104598	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	52003	29.147	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.167%		
60) 4-Bromofluorobenzene	12.847	95	53184	25.862	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	86.200%		
63) Toluene-d8	10.571	98	116729	27.821	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.733%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	436	0.248	ug/l #	43
4) Vinyl Chloride	2.518	62	377	0.208	ug/l	94
5) Bromomethane	2.971	94	998	0.651	ug/l #	56
6) Chloroethane	2.812	64	505	0.356	ug/l	96
15) Acetone	4.424	58	14857	79.024	ug/l	96
18) Methylene Chloride	5.271	84	2187	1.016	ug/l #	77
21) 1,1-Dichloroethane	6.571	63	2303	0.641	ug/l #	79
22) cis-1,2-Dichloroethene	7.489	96	843	0.340	ug/l #	57
23) tert-Butyl Alcohol	5.530	59	170	0.560	ug/l #	100
25) Chloroform	7.965	83	8920	2.183	ug/l	85
30) 2-Butanone	7.483	43	1150	1.391	ug/l #	63
32) 1,1,1-Trichloroethane	8.165	97	1088	0.365	ug/l	98
35) Methacrylonitrile	7.841	41	338	0.361	ug/l #	22
45) 1,4-Dioxane	9.353	88	286	8.485	ug/l #	29
50) 1,1,2-Trichloroethane	10.565	97	2662	1.534	ug/l #	1
62) Toluene	10.630	91	4437	0.583	ug/l #	61
72) 1,2,3-Trichloropropane	12.847	75	28068	14.787	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28068	35.705	ug/l #	12
79) tert-butylbenzene	13.723	119	4702	0.830	ug/l	41
82) p-Isopropyltoluene	13.723	119	4702	0.686	ug/l	79
88) 1,2-Dibromo-3-Chloropr...	14.288	75	185	0.414	ug/l #	4

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

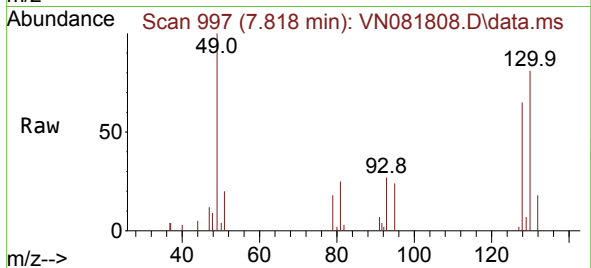
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QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration



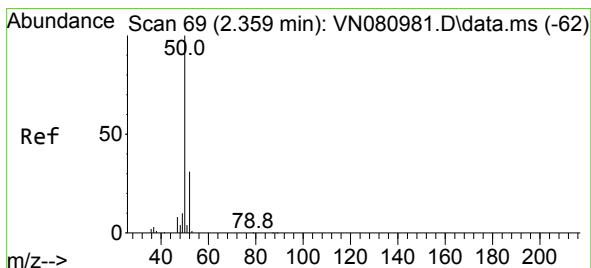
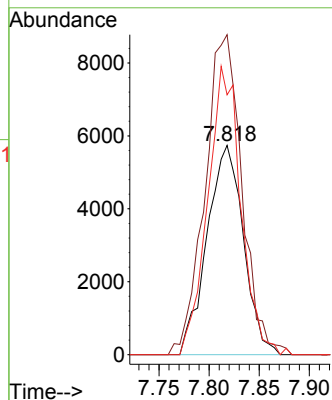
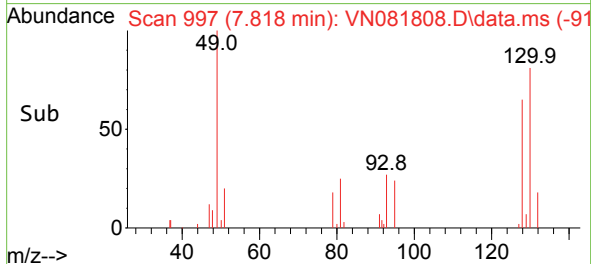


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

Instrument :
MSVOA_N
ClientSampleId :

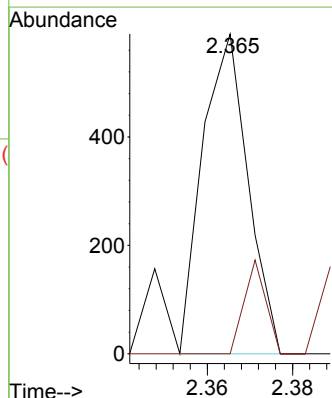
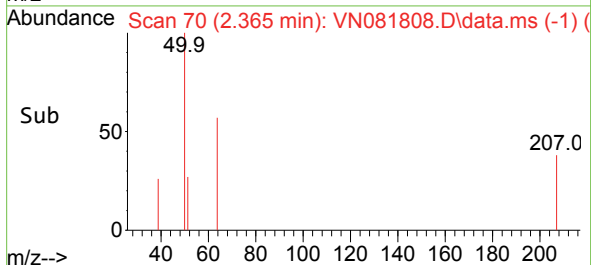
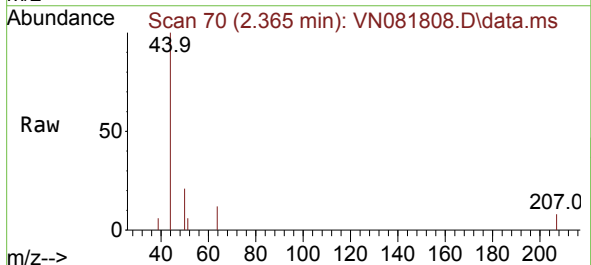


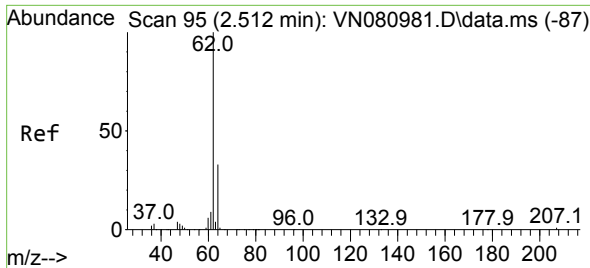
Tgt Ion:128 Resp: 14523
Ion Ratio Lower Upper
128 100
49 154.1 0.0 403.7
130 124.1 0.0 323.3



#3
Chloromethane
Concen: 0.248 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

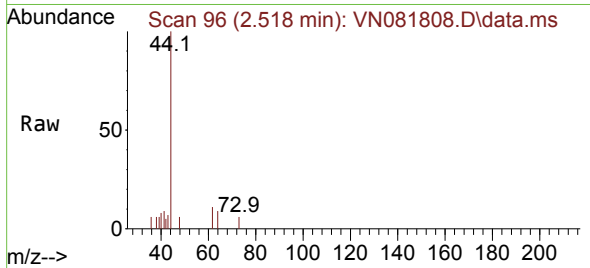
Tgt Ion: 50 Resp: 436
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#



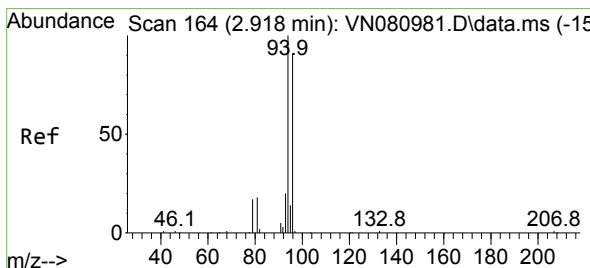
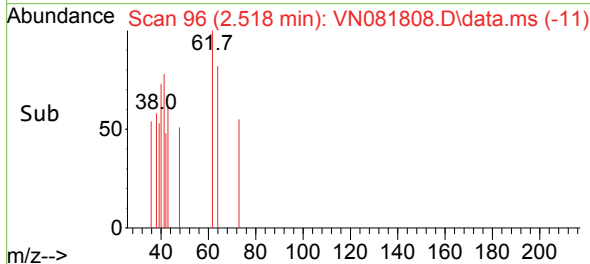
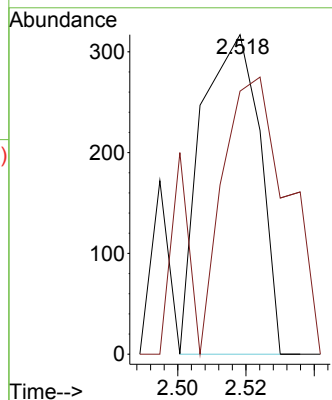


#4
 Vinyl Chloride
 Concen: 0.208 ug/l
 RT: 2.518 min Scan# 90
 Delta R.T. 0.000 min
 Lab File: VN081808.D
 Acq: 19 Apr 2024 14:52

Instrument :
 MSVOA_N
 ClientSampleId :

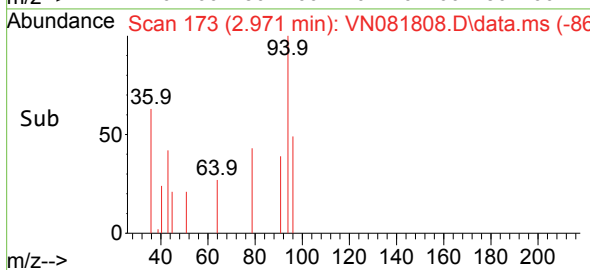
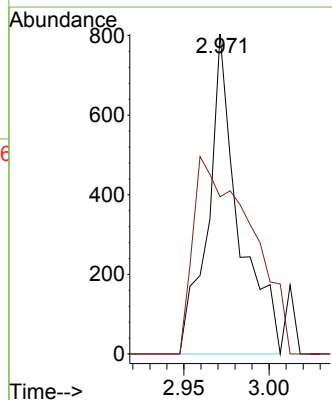
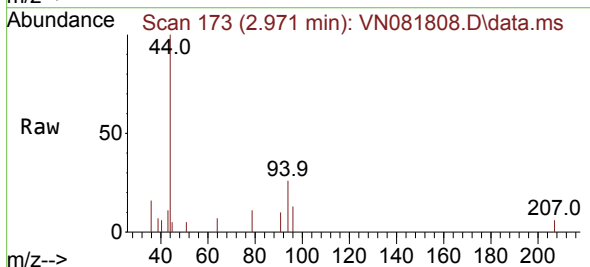


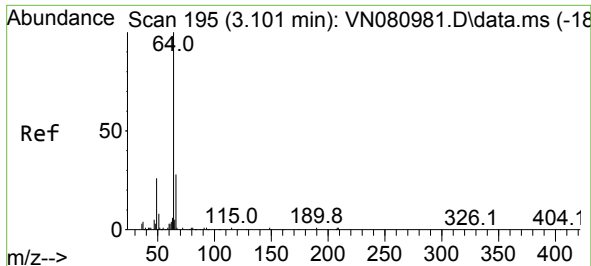
Tgt Ion: 62 Resp: 377
 Ion Ratio Lower Upper
 62 100
 64 33.4 24.1 36.1



#5
 Bromomethane
 Concen: 0.651 ug/l
 RT: 2.971 min Scan# 173
 Delta R.T. 0.012 min
 Lab File: VN081808.D
 Acq: 19 Apr 2024 14:52

Tgt Ion: 94 Resp: 998
 Ion Ratio Lower Upper
 94 100
 96 49.1 72.8 109.2#

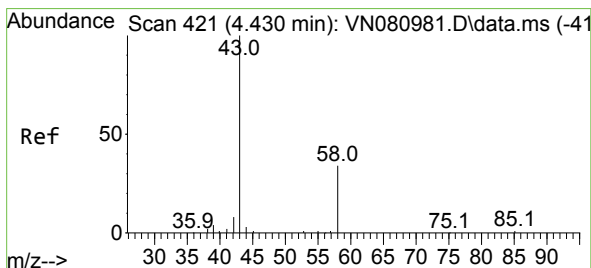
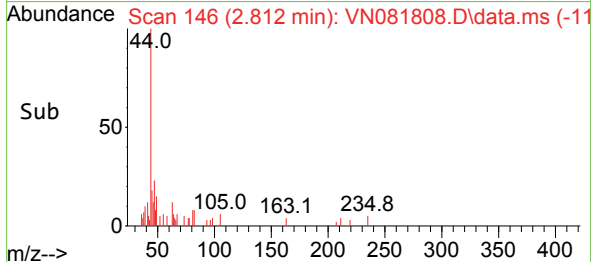
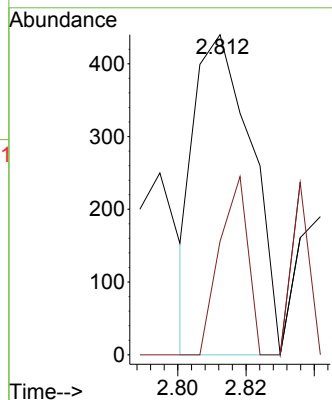
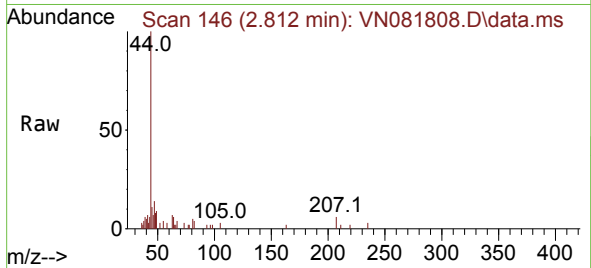




#6
Chloroethane
Concen: 0.356 ug/l
RT: 2.812 min Scan# 14
Delta R.T. -0.312 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

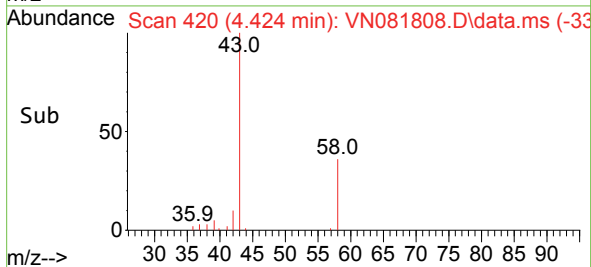
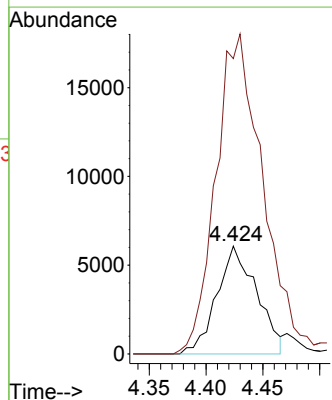
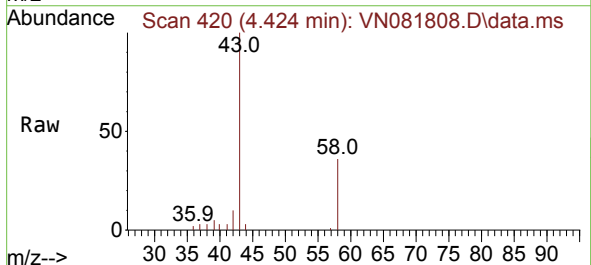
Instrument :
MSVOA_N
ClientSampleId :

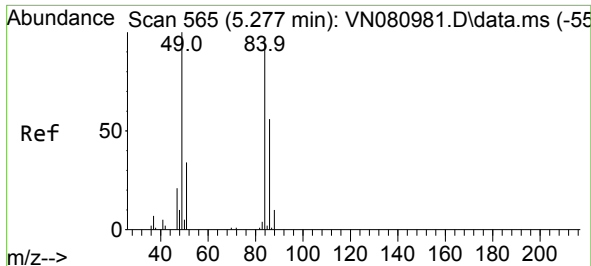
Tgt Ion: 64 Resp: 505
Ion Ratio Lower Upper
64 100
66 35.5 26.7 40.1



#15
Acetone
Concen: 79.024 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

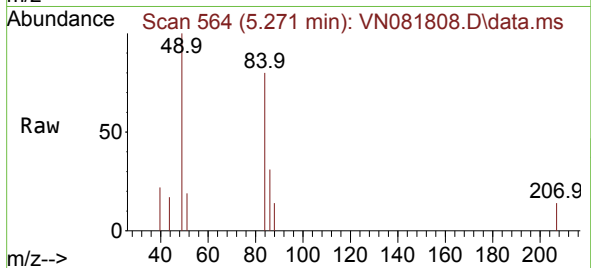
Tgt Ion: 58 Resp: 14857
Ion Ratio Lower Upper
58 100
43 270.6 223.1 334.7



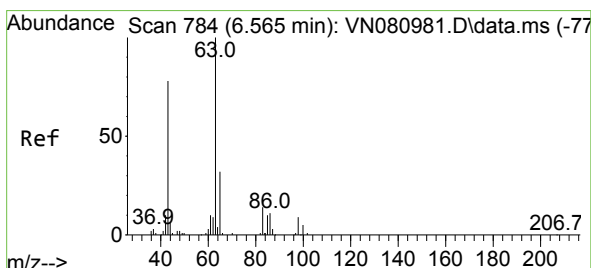
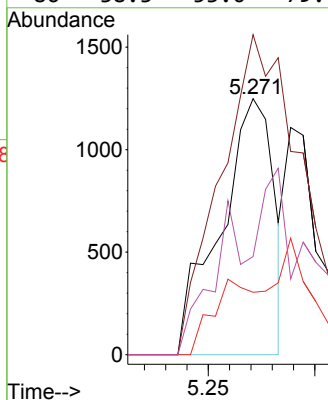
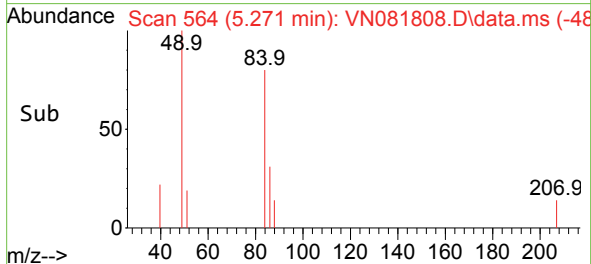


#18
Methylene Chloride
Concen: 1.016 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

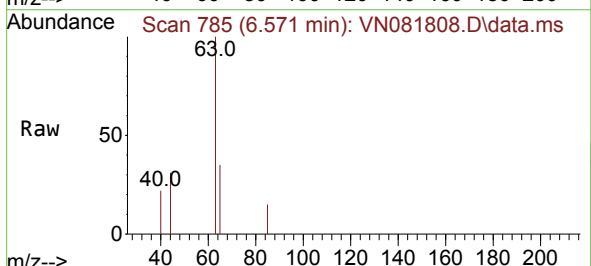
Instrument :
MSVOA_N
ClientSampleId :



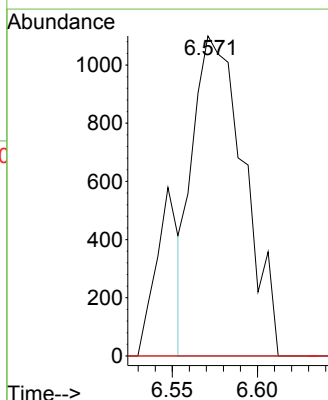
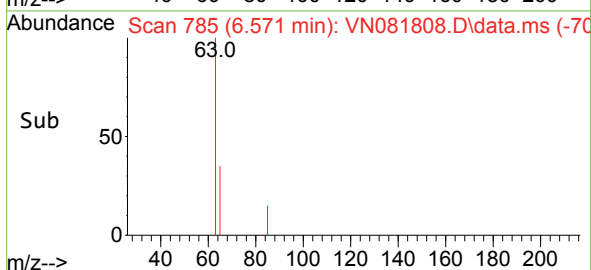
Tgt Ion: 84 Resp: 2187
Ion Ratio Lower Upper
84 100
49 125.0 86.0 129.0
51 24.3 30.0 45.0#
86 38.3 53.0 79.4#

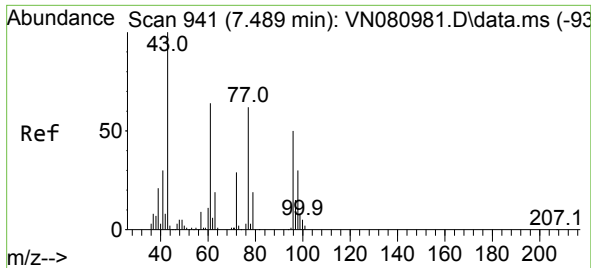


#21
1,1-Dichloroethane
Concen: 0.641 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52



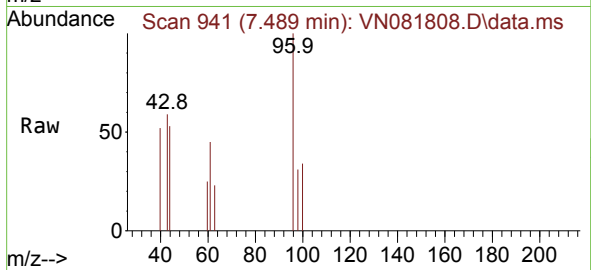
Tgt Ion: 63 Resp: 2303
Ion Ratio Lower Upper
63 100
98 0.0 4.1 12.3#
100 0.0 3.0 9.0#



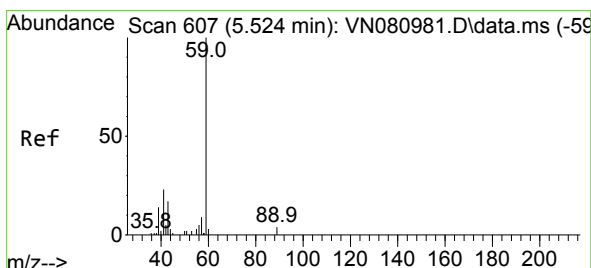
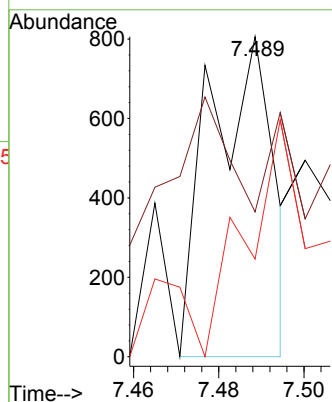
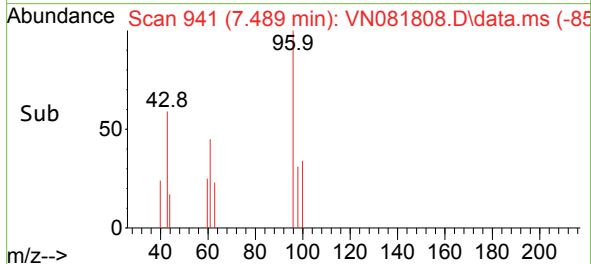


#22
 cis-1,2-Dichloroethene
 Concen: 0.340 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN081808.D
 Acq: 19 Apr 2024 14:52

Instrument :
 MSVOA_N
 ClientSampleId :

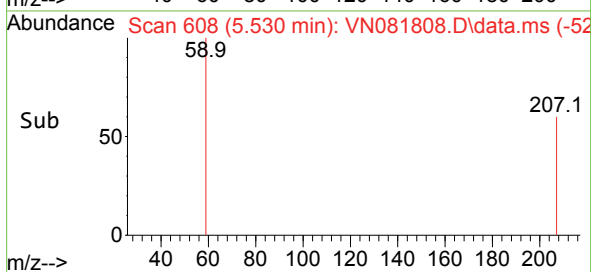
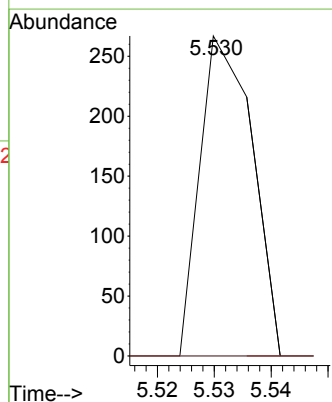
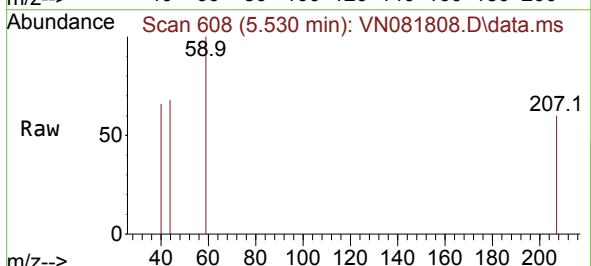


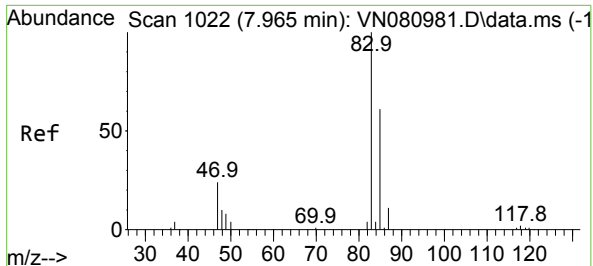
Tgt Ion: 96 Resp: 843
 Ion Ratio Lower Upper
 96 100
 61 112.0 113.5 170.3#
 98 0.0 52.0 78.0#



#23
 tert-Butyl Alcohol
 Concen: 0.560 ug/l
 RT: 5.530 min Scan# 608
 Delta R.T. 0.018 min
 Lab File: VN081808.D
 Acq: 19 Apr 2024 14:52

Tgt Ion: 59 Resp: 170
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0





#25

Chloroform

Concen: 2.183 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.006 min

Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

Instrument :

MSVOA_N

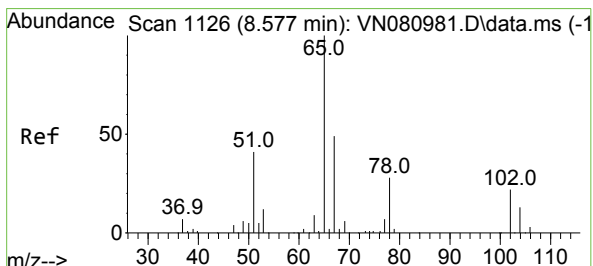
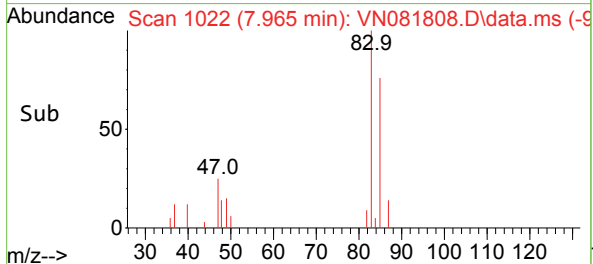
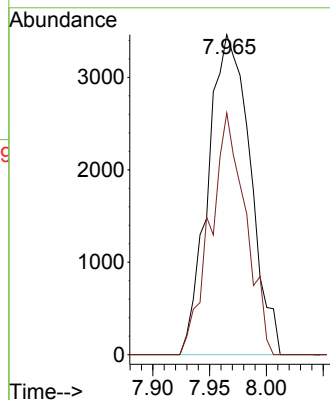
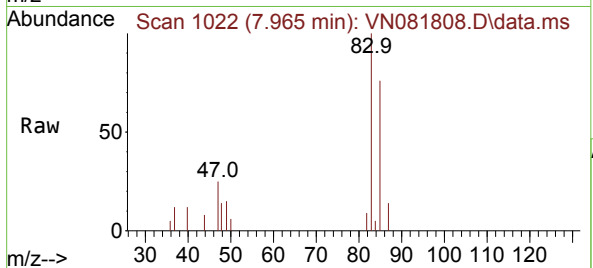
ClientSampleId :

Tgt Ion: 83 Resp: 8920

Ion Ratio Lower Upper

83 100

85 75.6 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 29.147 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN081808.D

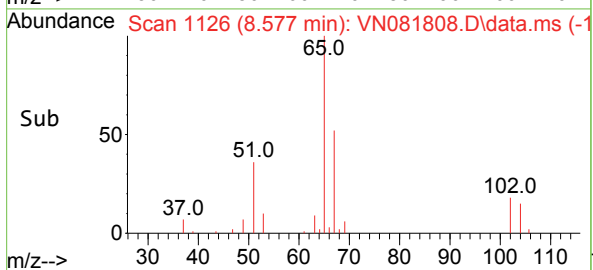
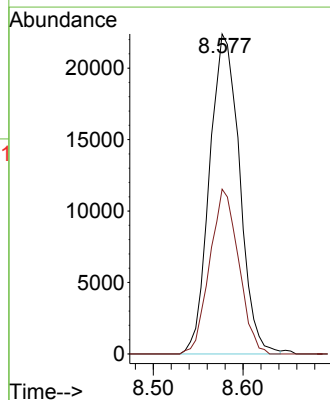
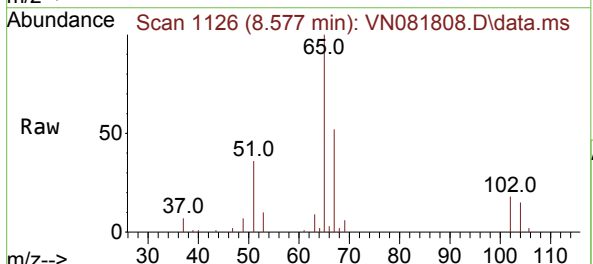
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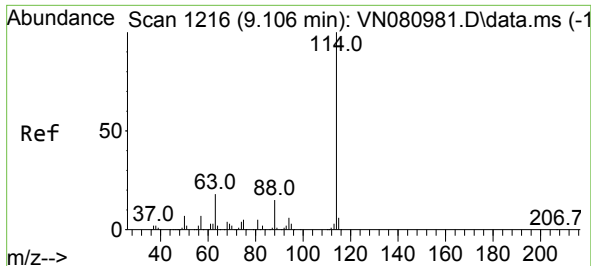
Tgt Ion: 65 Resp: 52003

Ion Ratio Lower Upper

65 100

67 49.6 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

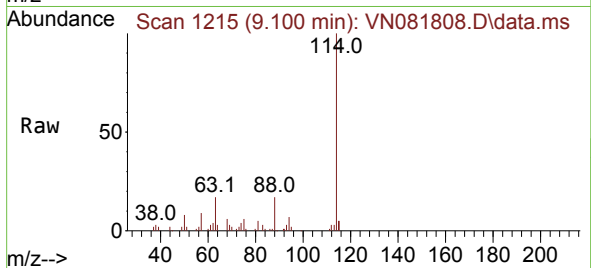
Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

Instrument :

MSVOA_N

ClientSampleId :



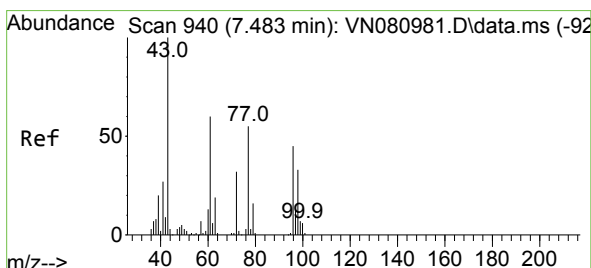
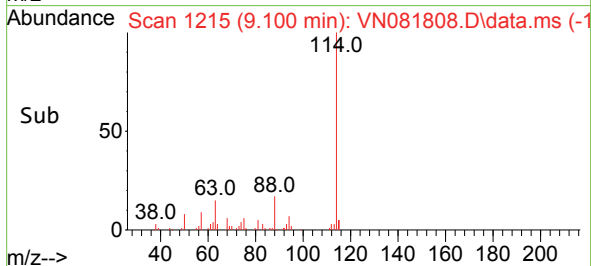
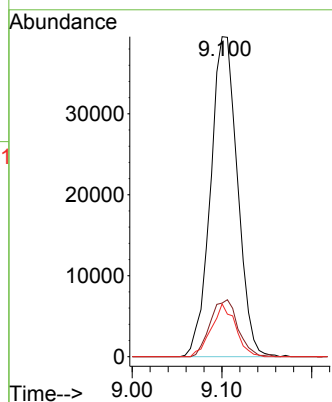
Tgt Ion:114 Resp: 82351

Ion Ratio Lower Upper

114 100

63 18.2 15.9 23.9

88 14.8 12.7 19.1



#30

2-Butanone

Concen: 1.391 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

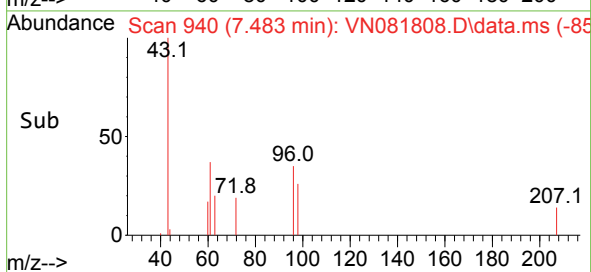
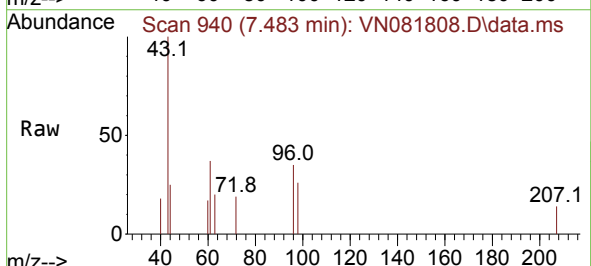
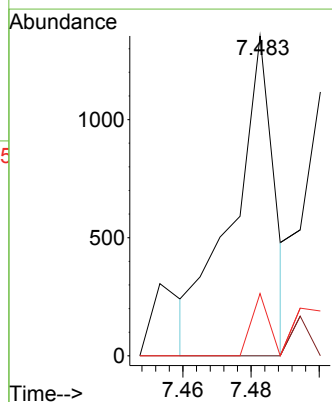
Tgt Ion: 43 Resp: 1150

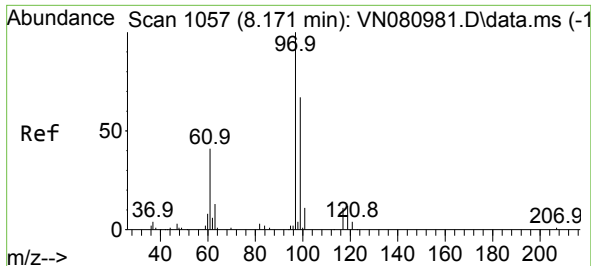
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 8.1 24.0 36.0#





#32

1,1,1-Trichloroethane

Concen: 0.365 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.006 min

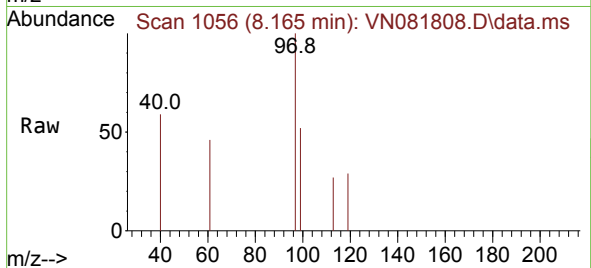
Lab File: VN081808.D

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MSVOA_N

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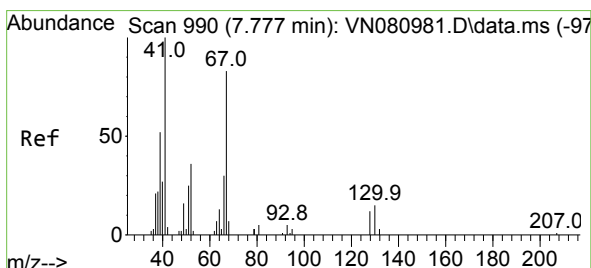
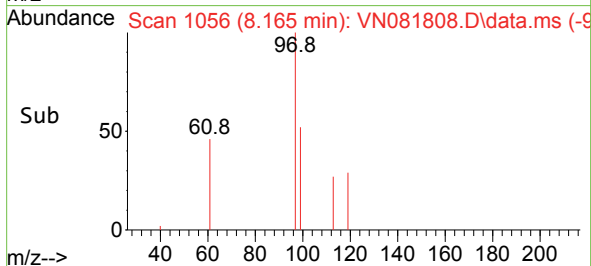
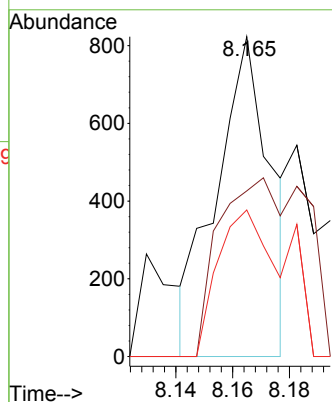
Tgt Ion: 97 Resp: 1088

Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.4

61 45.9 33.8 50.8



#35

Methacrylonitrile

Concen: 0.361 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.059 min

Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

Tgt Ion: 41 Resp: 338

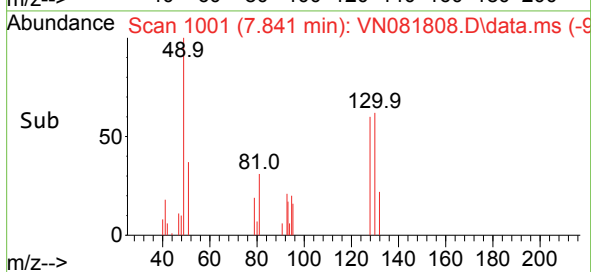
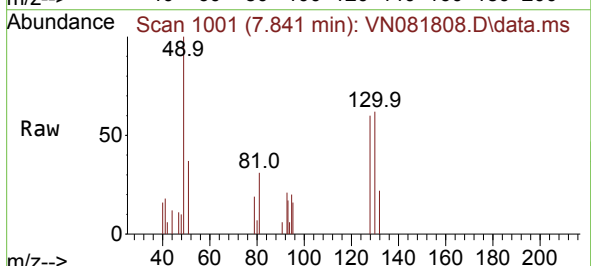
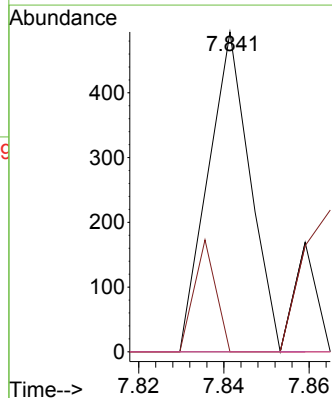
Ion Ratio Lower Upper

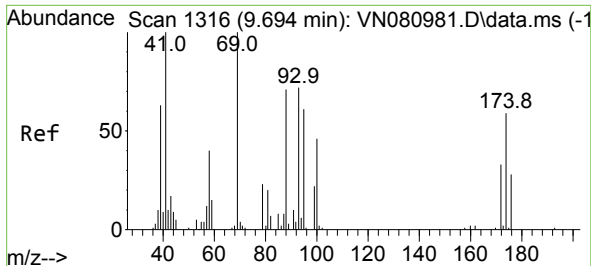
41 100

39 0.0 25.3 75.9#

67 0.0 38.7 116.1#

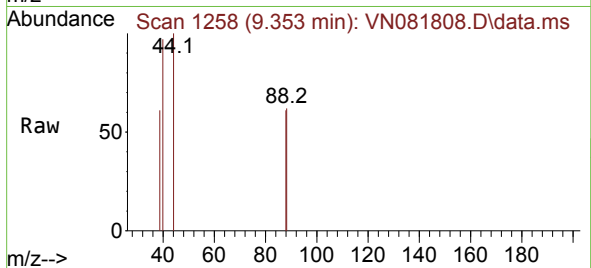
52 0.0 13.6 40.8#



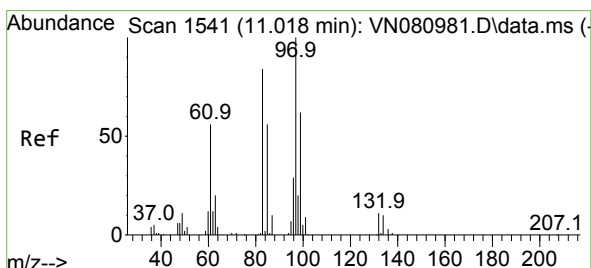
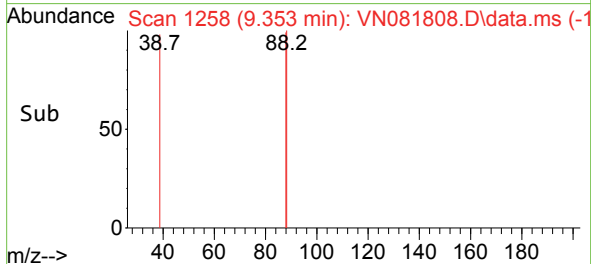
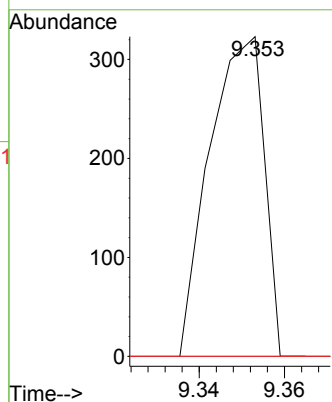


#45
1,4-Dioxane
Concen: 8.485 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.341 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

Instrument :
MSVOA_N
ClientSampleId :

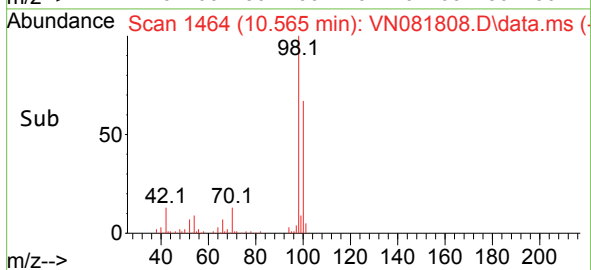
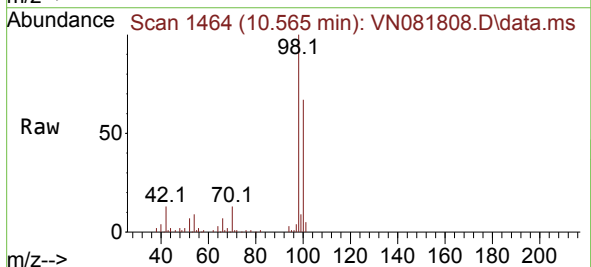
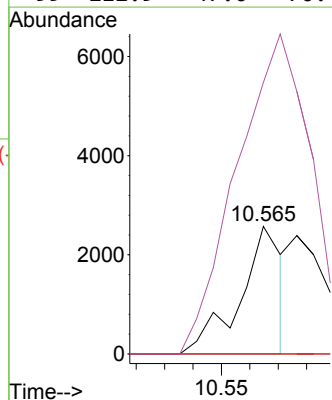


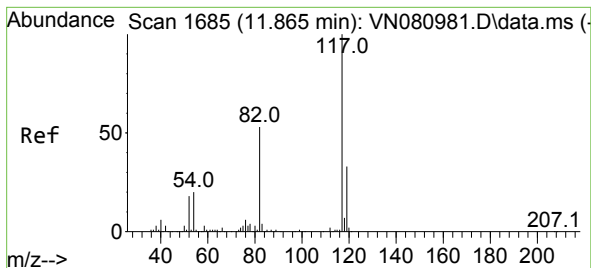
Tgt Ion: 88 Resp: 286
Ion Ratio Lower Upper
88 100
43 40.6 19.8 29.6#
58 0.0 55.4 83.0#



#50
1,1,2-Trichloroethane
Concen: 1.534 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.453 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

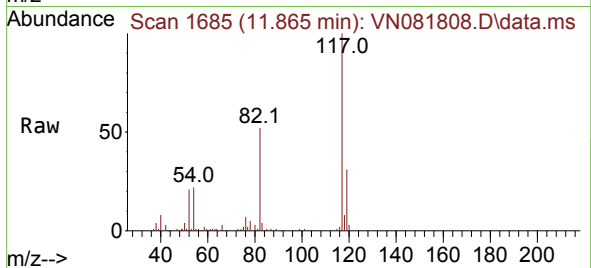
Tgt Ion: 97 Resp: 2662
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 212.9 47.0 70.4#



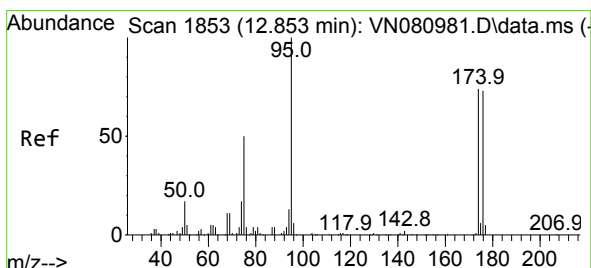
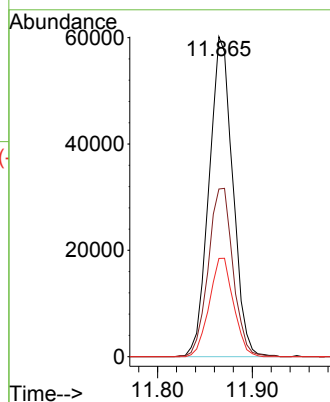
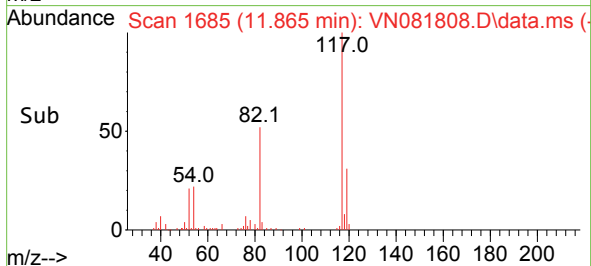


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

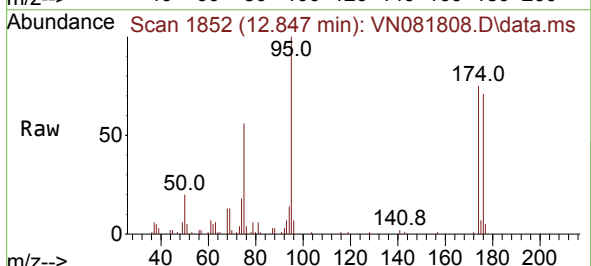
Instrument :
MSVOA_N
ClientSampleId :



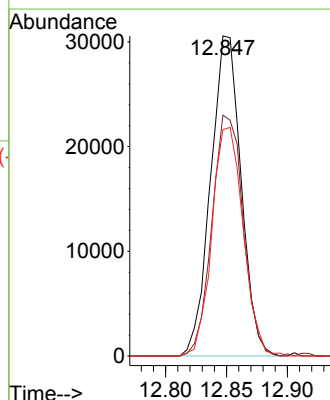
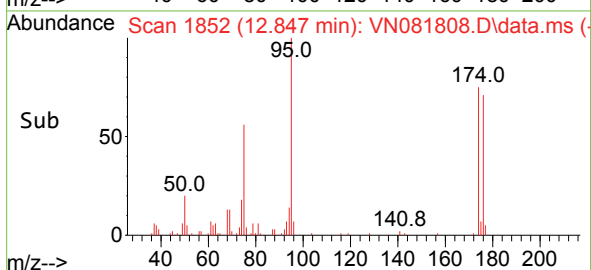
Tgt Ion:117 Resp: 104598
Ion Ratio Lower Upper
117 100
82 55.2 46.6 69.8
119 31.5 25.4 38.2

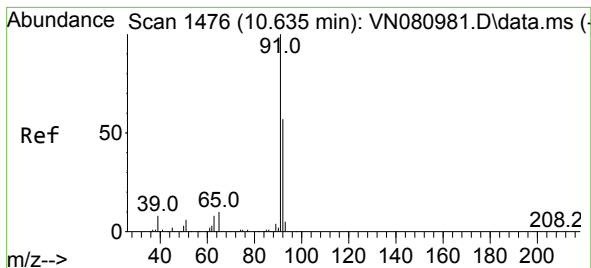


#60
4-Bromofluorobenzene
Concen: 25.862 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52



Tgt Ion: 95 Resp: 53184
Ion Ratio Lower Upper
95 100
174 76.9 60.5 90.7
176 73.0 57.8 86.6





#62

Toluene

Concen: 0.583 ug/l

RT: 10.630 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

Instrument :

MSVOA_N

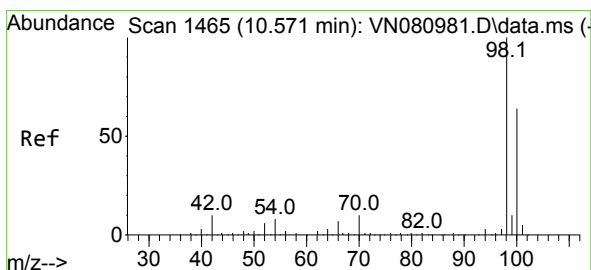
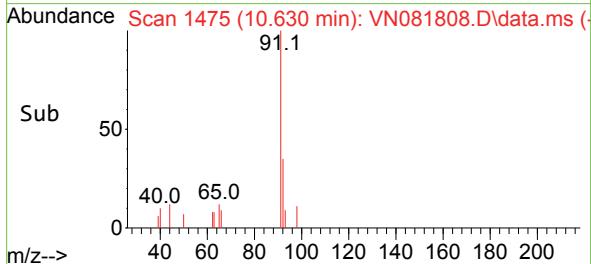
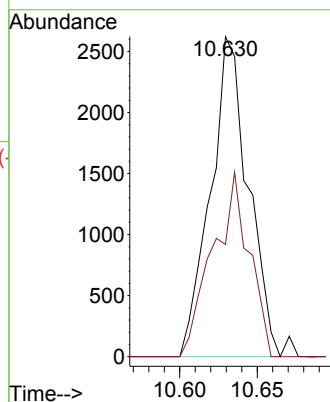
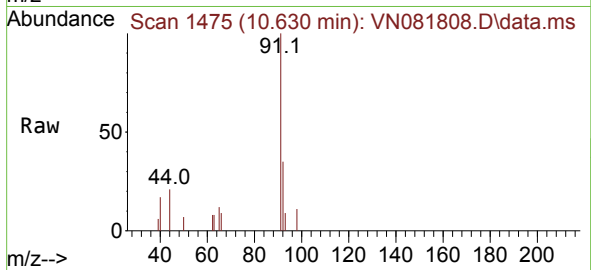
ClientSampleId :

Tgt Ion: 91 Resp: 4437

Ion Ratio Lower Upper

91 100

92 28.9 46.5 69.7#



#63

Toluene-d8

Concen: 27.821 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081808.D

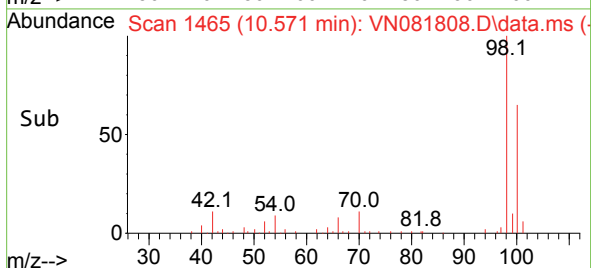
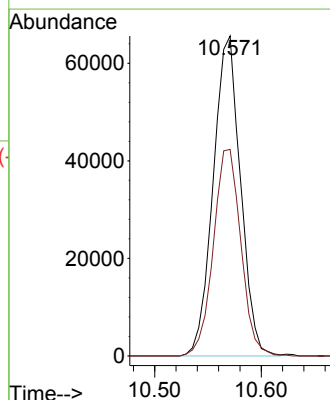
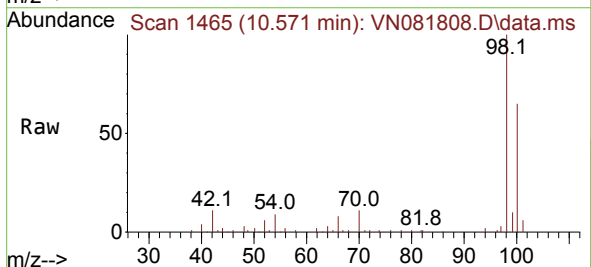
Acq: 19 Apr 2024 14:52

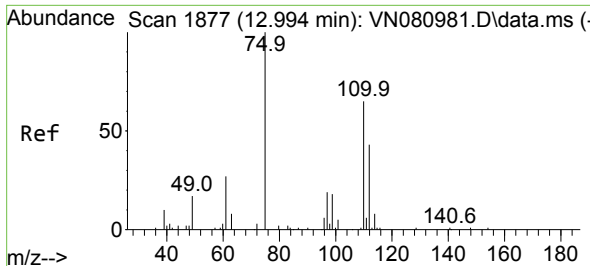
Tgt Ion: 98 Resp: 116729

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1

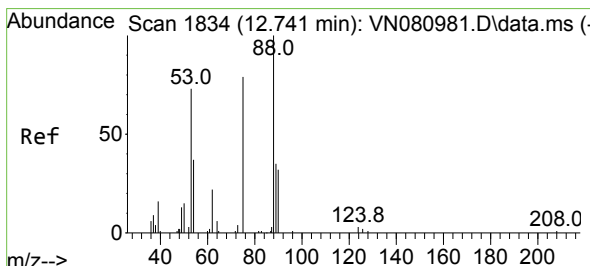
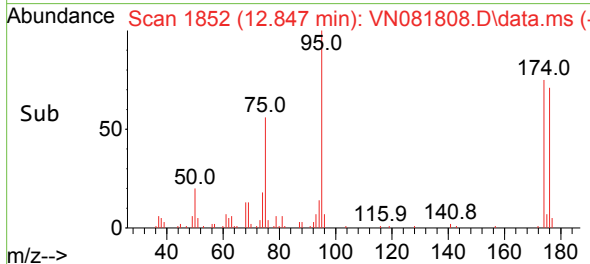
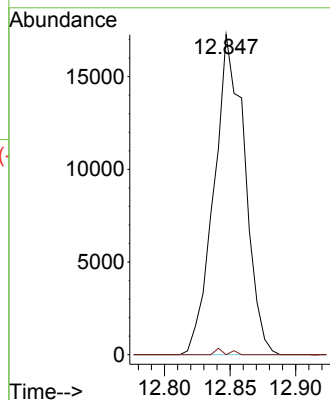
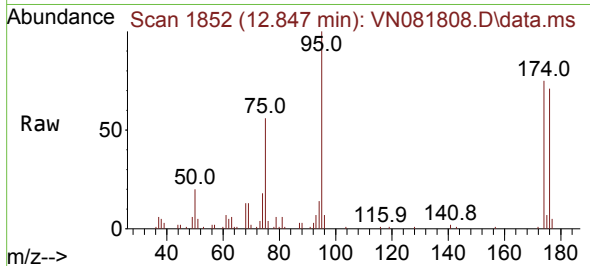




#72
1,2,3-Trichloropropane
Concen: 14.787 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

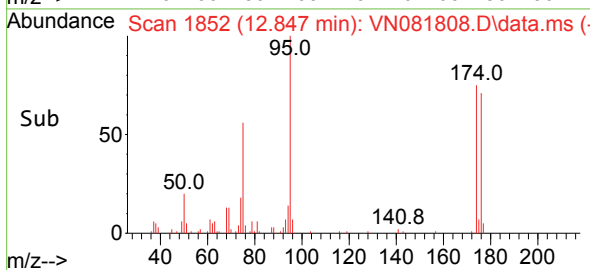
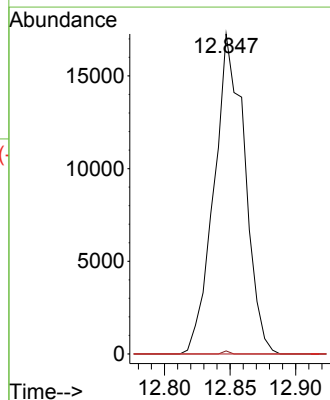
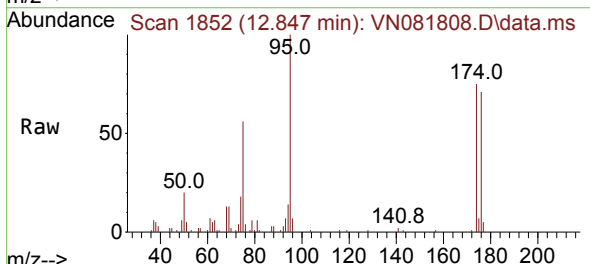
Instrument :
MSVOA_N
ClientSampleId :

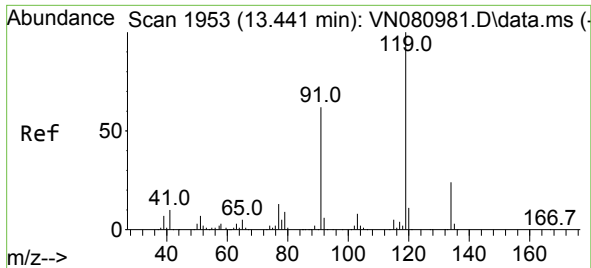
Tgt Ion: 75 Resp: 28068
Ion Ratio Lower Upper
75 100
77 0.3 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.705 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

Tgt Ion: 75 Resp: 28068
Ion Ratio Lower Upper
75 100
53 1.0 45.9 137.7#
89 0.0 25.9 77.7#

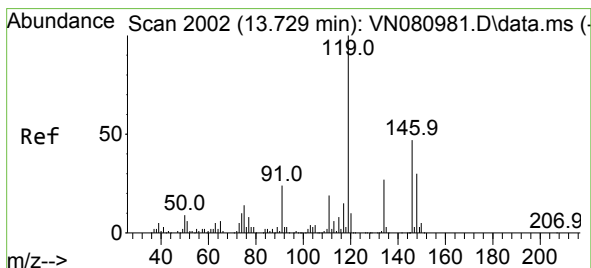
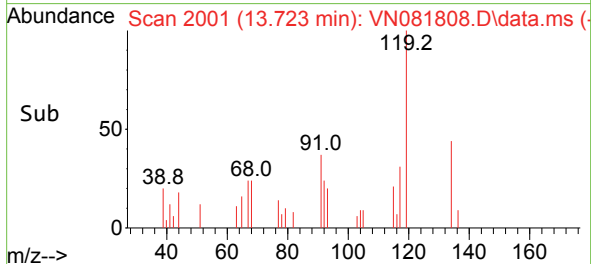
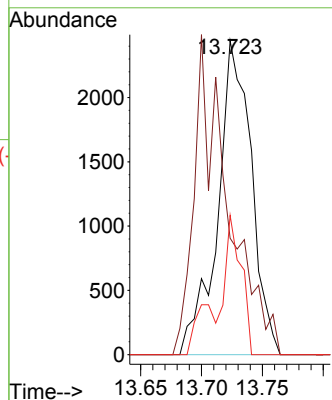
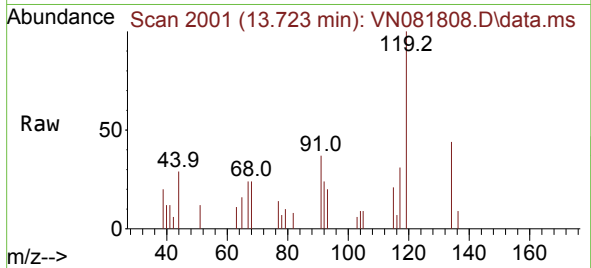




#79
tert-butylbenzene
Concen: 0.830 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.282 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

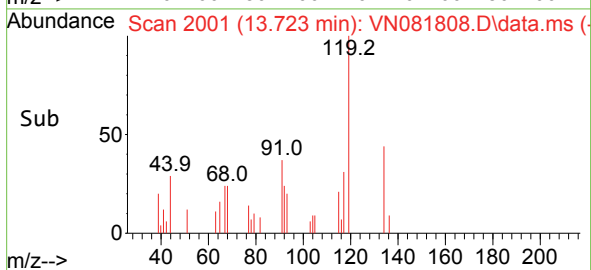
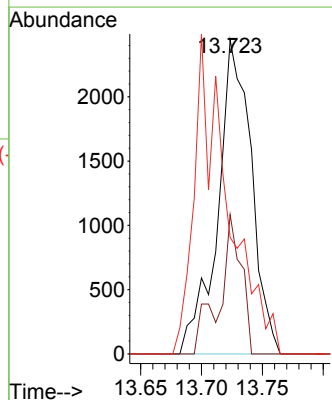
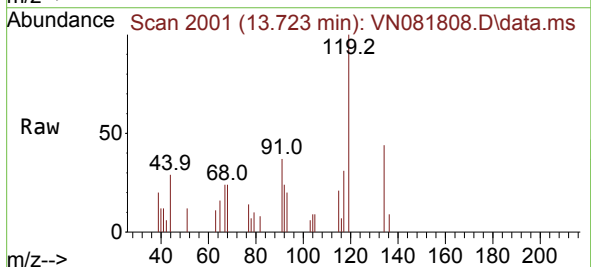
Instrument :
MSVOA_N
ClientSampleId :

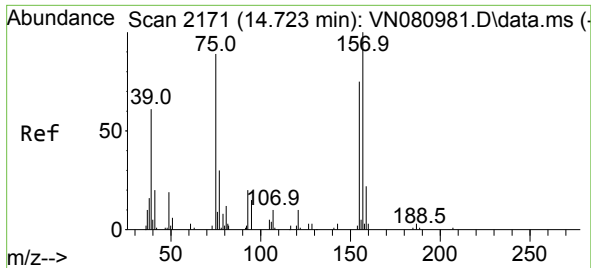
Tgt Ion:119 Resp: 4702
Ion Ratio Lower Upper
119 100
91 6.1 0.0 138.8
134 21.5 0.0 48.6



#82
p-Isopropyltoluene
Concen: 0.686 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN081808.D
Acq: 19 Apr 2024 14:52

Tgt Ion:119 Resp: 4702
Ion Ratio Lower Upper
119 100
134 21.5 0.0 49.2
91 6.1 0.0 48.8





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.414 ug/l

RT: 14.288 min Scan# 2097

Delta R.T. -0.435 min

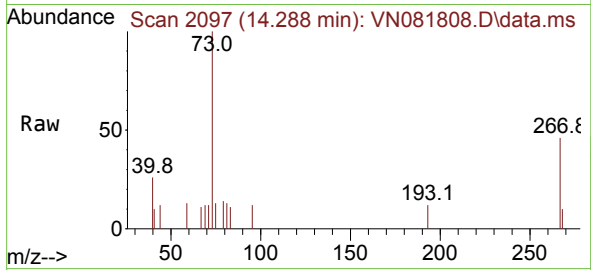
Lab File: VN081808.D

Acq: 19 Apr 2024 14:52

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 185

Ion Ratio Lower Upper

75 100

155 0.0 61.7 92.5#

157 0.0 83.6 125.4#

