

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030124\
 Data File : VN081280.D
 Acq On : 01 Mar 2024 13:08
 Operator : JC\MD
 Sample : PB153949ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153949ZHE#02

Quant Time: Mar 01 22:16:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

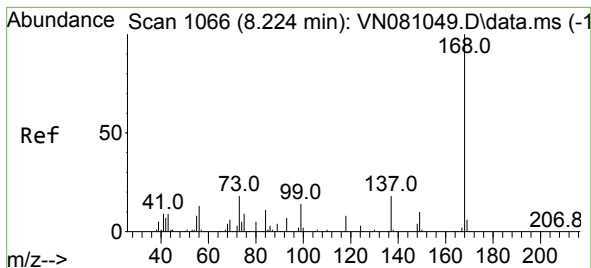
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	311213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	589258	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	519007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	191169	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	230114	60.325	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.640%	
35) Dibromofluoromethane	8.165	113	185026	55.529	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.060%	
50) Toluene-d8	10.571	98	713022	60.249	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 120.500%#	
62) 4-Bromofluorobenzene	12.847	95	216241	48.627	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.260%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1105	Below Cal	#	43
5) Bromomethane	2.977	94	1038	0.327	ug/l #	69
6) Chloroethane	3.165	64	140	Below Cal	#	42
11) Tert butyl alcohol	5.500	59	874	1.246	ug/l #	72
13) Acrolein	4.183	56	359	0.955	ug/l	98
16) Acetone	4.424	43	70883	47.225	ug/l	92
18) Methyl Acetate	5.018	43	4171	1.139	ug/l	91
20) Methylene Chloride	5.271	84	31154	7.228	ug/l	93
25) 2-Butanone	7.483	43	3876	1.598	ug/l	94
29) Tetrahydrofuran	7.835	42	1816	1.122	ug/l #	1
31) Cyclohexane	8.218	56	8808	1.337	ug/l #	19
36) 1,1-Dichloropropene	8.224	75	30110	5.275	ug/l #	51
37) Ethyl Acetate	7.565	43	5939	1.153	ug/l	97
38) Carbon Tetrachloride	8.230	117	35833	6.204	ug/l #	18
42) 1,2-Dichloroethane	8.677	62	2462	0.427	ug/l #	75
43) Isopropyl Acetate	8.688	43	434103	48.177	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	2921	0.707	ug/l #	42
48) Methyl methacrylate	9.671	41	5983	1.427	ug/l #	47
49) 1,4-Dioxane	9.741	88	327	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.447	43	12389	2.390	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	78258	11.428	ug/l #	63
56) Ethyl methacrylate	10.976	69	2560	0.416	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	9655	1.388	ug/l #	45
59) 2-Hexanone	11.171	43	191674	46.643	ug/l #	26
71) Bromoform	12.847	173	1271	0.497	ug/l #	1
74) N-amyl acetate	12.476	43	2749	0.389	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	120879	27.830	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	120879	71.632	ug/l #	14

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

Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

[illegible]



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081280.D

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Instrument :

MSVOA_N

ClientSampleId :

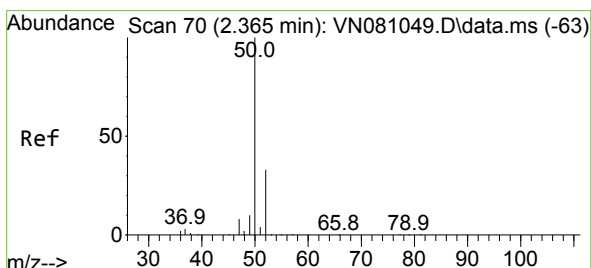
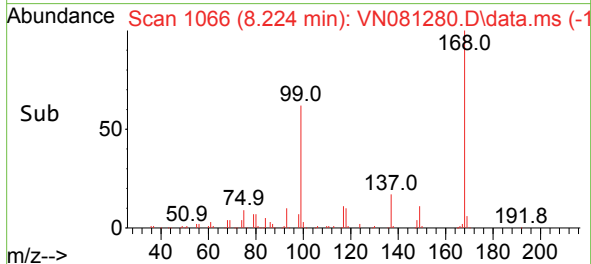
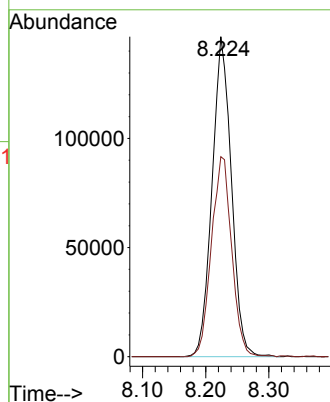
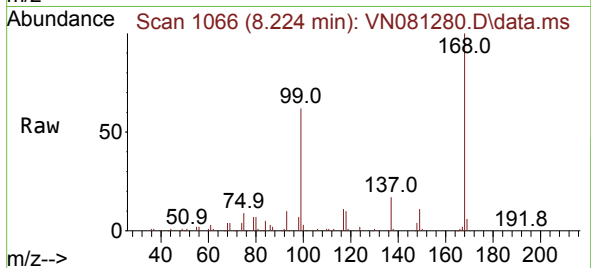
PB153949ZHE#02

Tgt Ion:168 Resp: 311213

Ion Ratio Lower Upper

168 100

99 62.5 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. -0.006 min

Lab File: VN081280.D

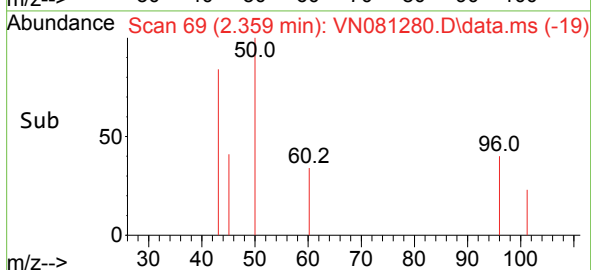
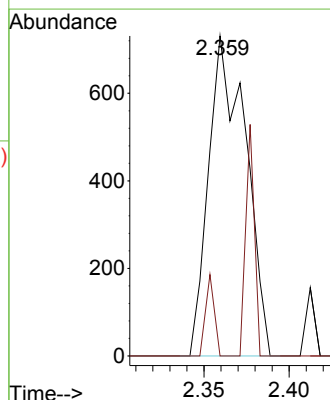
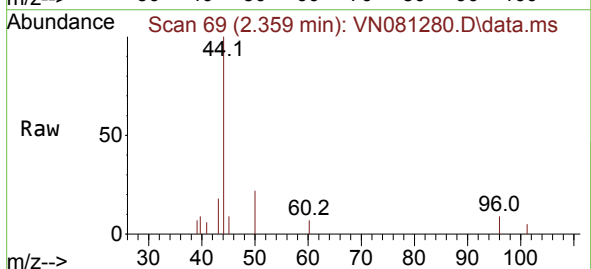
Acq: 01 Mar 2024 13:08

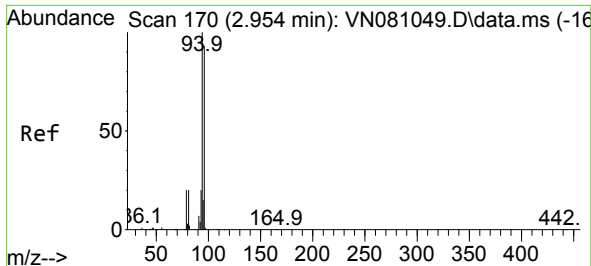
Tgt Ion: 50 Resp: 1105

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#

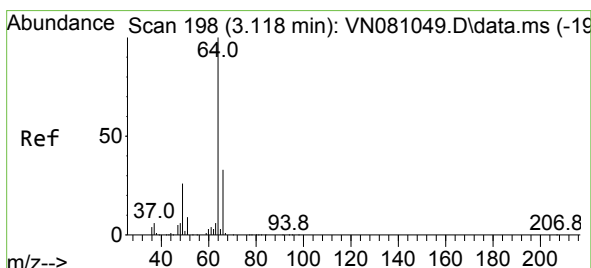
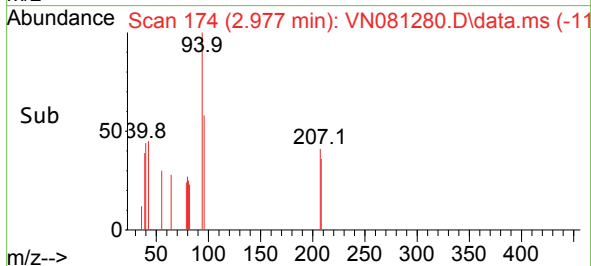
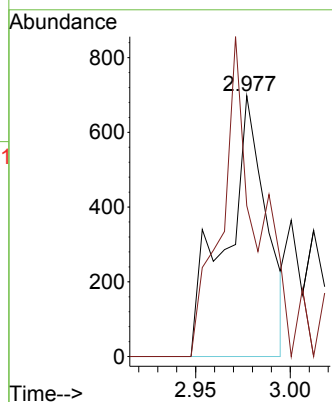
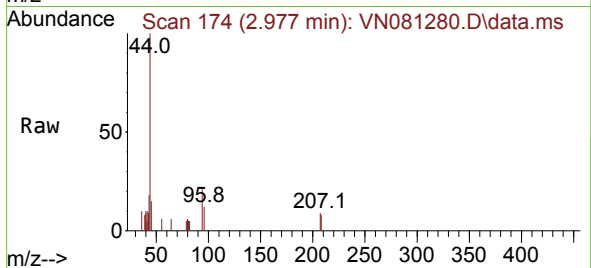




#5
Bromomethane
Concen: 0.327 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

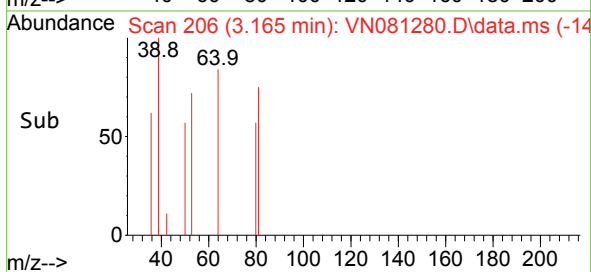
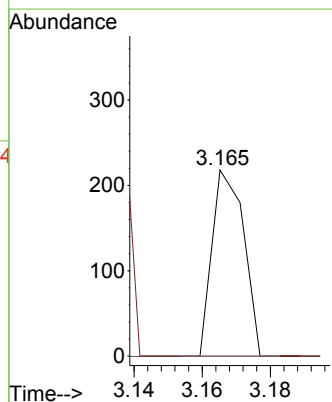
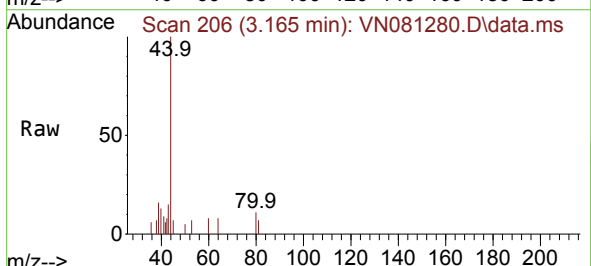
Instrument :
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PB153949ZHE#02

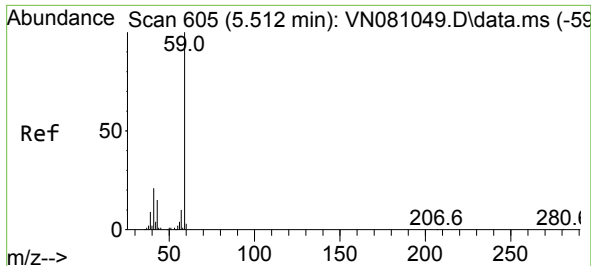
Tgt Ion: 94 Resp: 1038
Ion Ratio Lower Upper
94 100
96 57.9 69.2 103.8#



#6
Chloroethane
Concen: Below Cal
RT: 3.165 min Scan# 206
Delta R.T. 0.047 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 64 Resp: 140
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

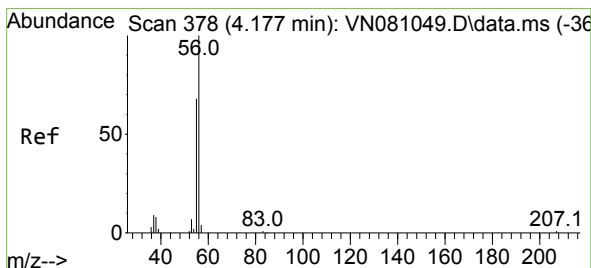
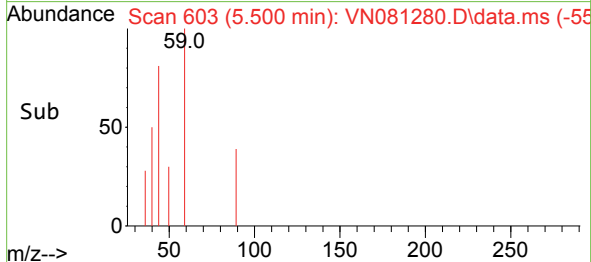
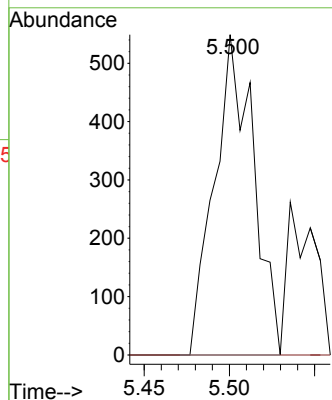
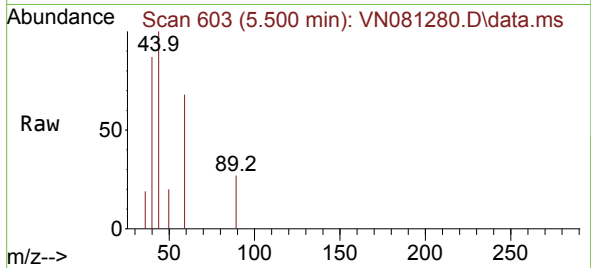




#11
Tert butyl alcohol
Concen: 1.246 ug/l
RT: 5.500 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

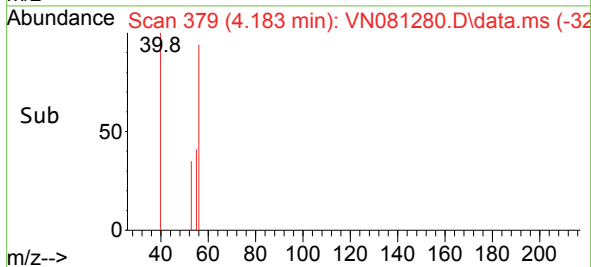
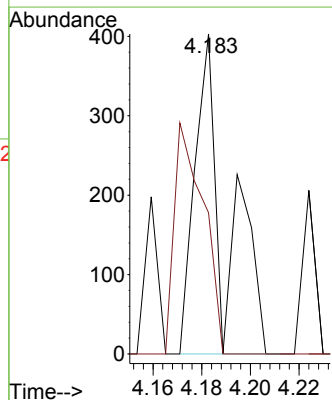
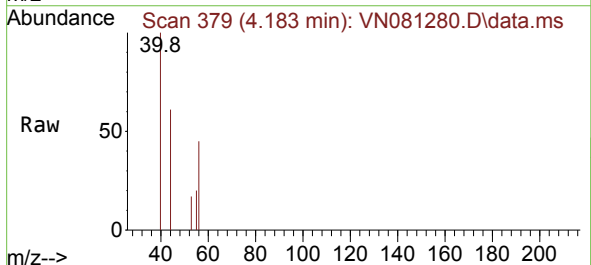
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

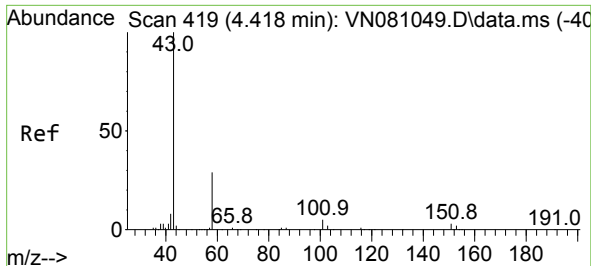
Tgt Ion: 59 Resp: 874
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.955 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 56 Resp: 359
Ion Ratio Lower Upper
56 100
55 67.7 55.3 82.9

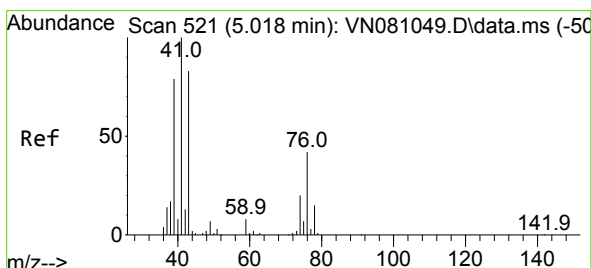
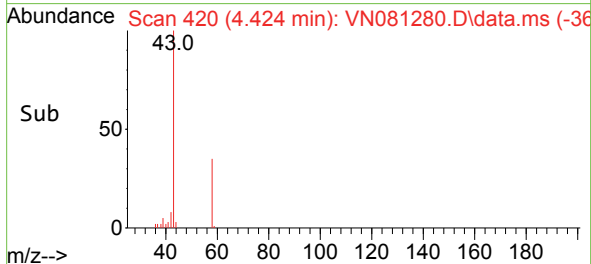
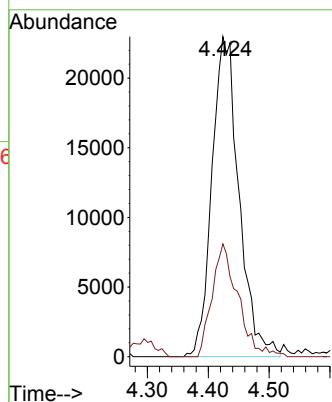
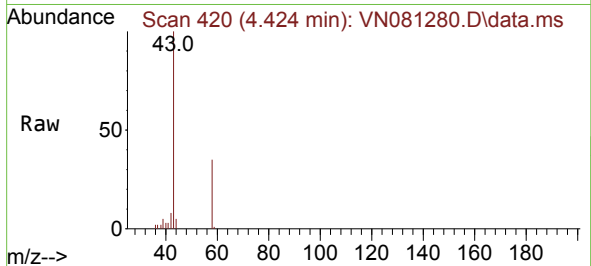




#16
Acetone
Concen: 47.225 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

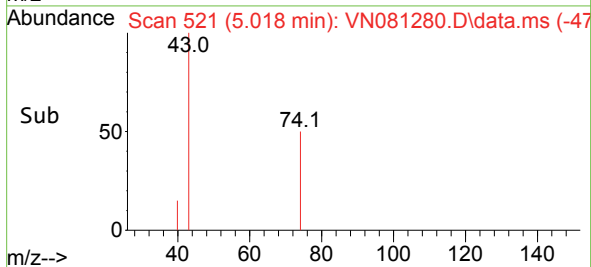
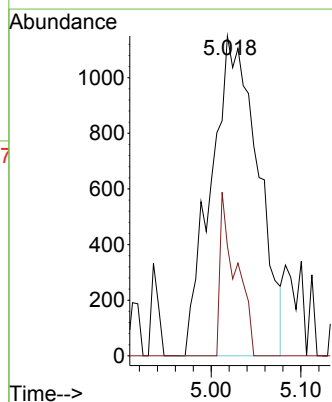
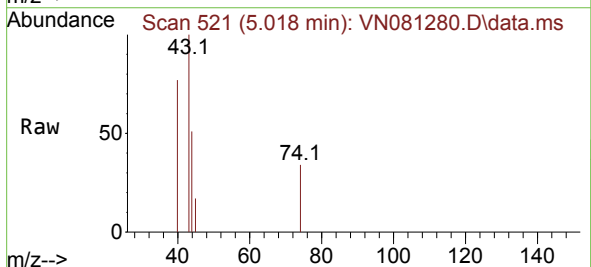
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

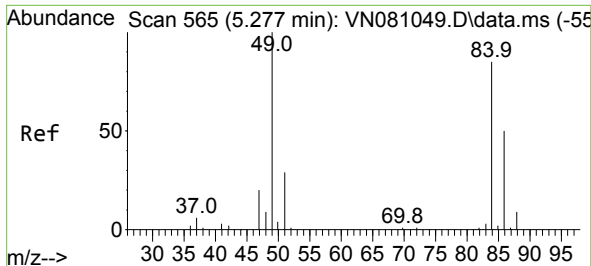
Tgt Ion: 43 Resp: 70883
Ion Ratio Lower Upper
43 100
58 35.3 24.8 37.2



#18
Methyl Acetate
Concen: 1.139 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 43 Resp: 4171
Ion Ratio Lower Upper
43 100
74 17.3 17.3 25.9

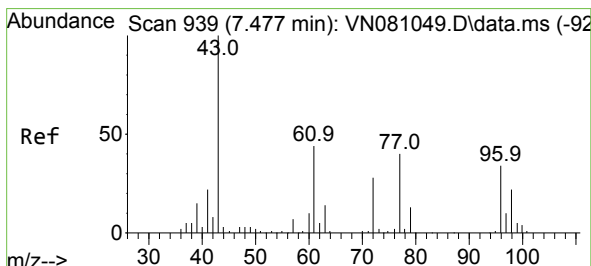
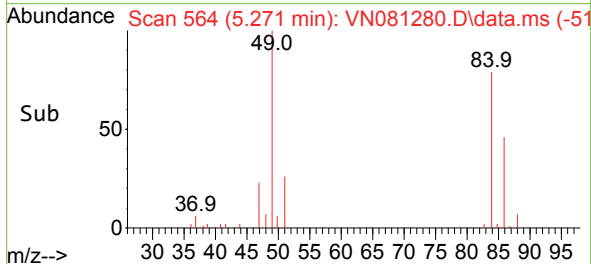
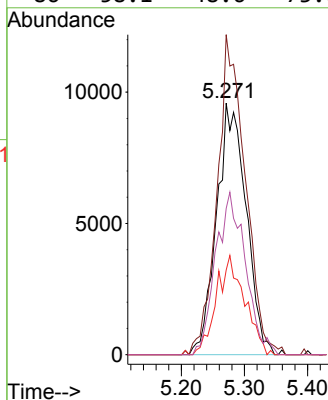
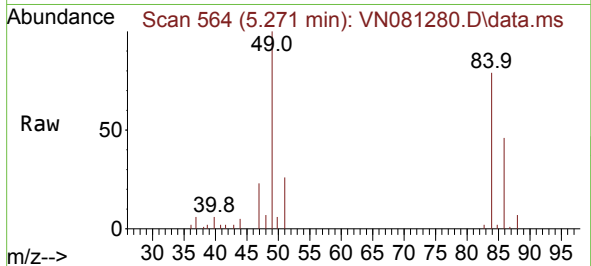




#20
Methylene Chloride
Concen: 7.228 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

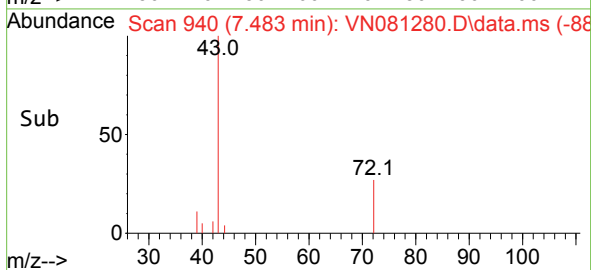
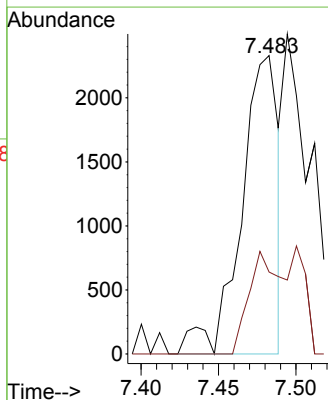
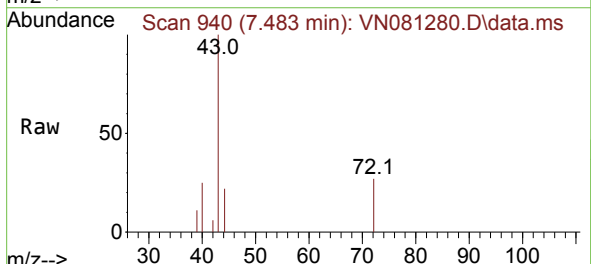
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

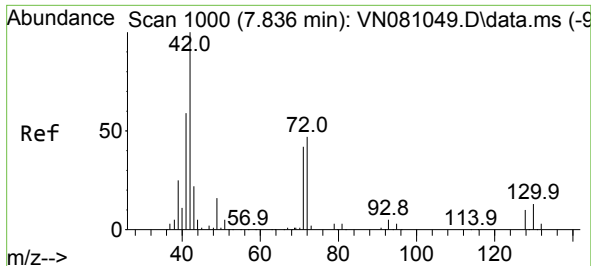
Tgt Ion: 84	Resp: 31154		
Ion	Ratio	Lower	Upper
84	100		
49	127.3	108.1	162.1
51	33.7	32.9	49.3
86	58.1	48.6	73.0



#25
2-Butanone
Concen: 1.598 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 43	Resp: 3876
Ion Ratio	Lower Upper
43 100	
72 27.5	19.5 29.3





#29

Tetrahydrofuran

Concen: 1.122 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN081280.D

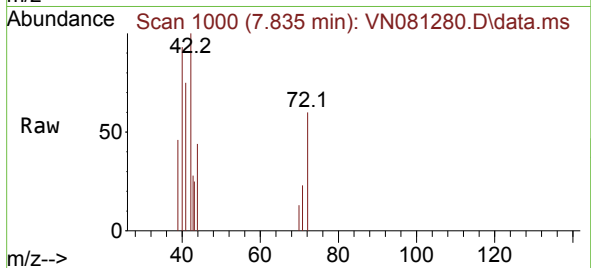
Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB153949ZHE#02



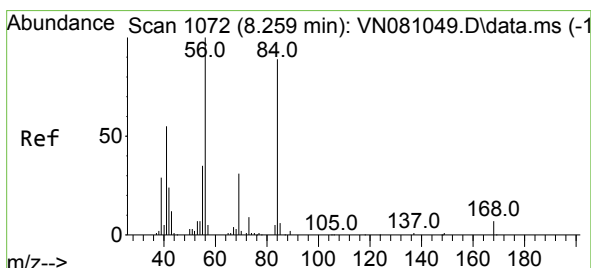
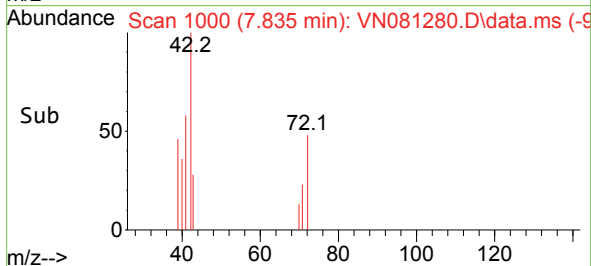
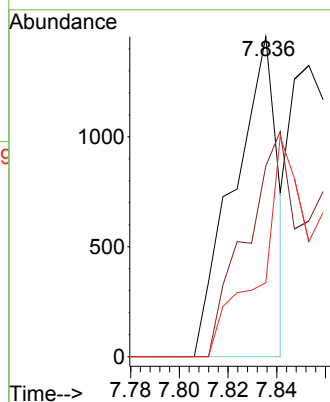
Tgt Ion: 42 Resp: 1816

Ion Ratio Lower Upper

42 100

72 101.2 31.1 46.7#

71 94.7 28.3 42.5#



#31

Cyclohexane

Concen: 1.337 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

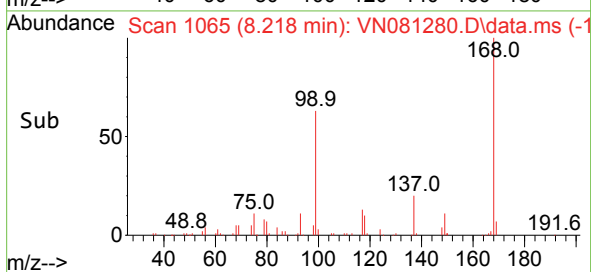
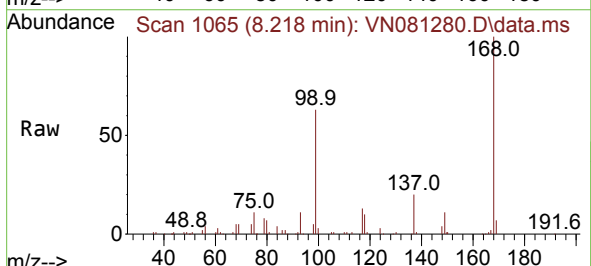
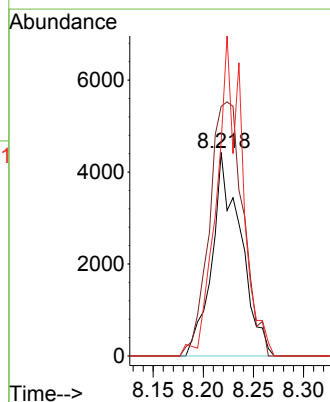
Tgt Ion: 56 Resp: 8808

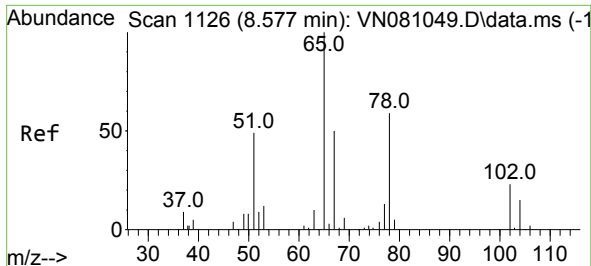
Ion Ratio Lower Upper

56 100

69 122.6 20.1 30.1#

84 105.1 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 60.325 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

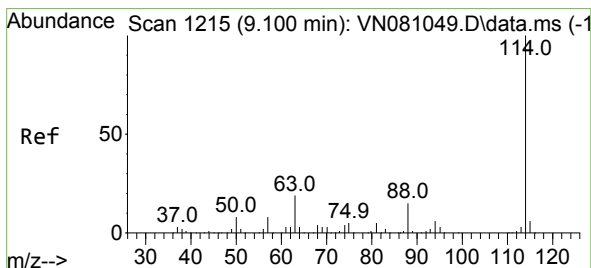
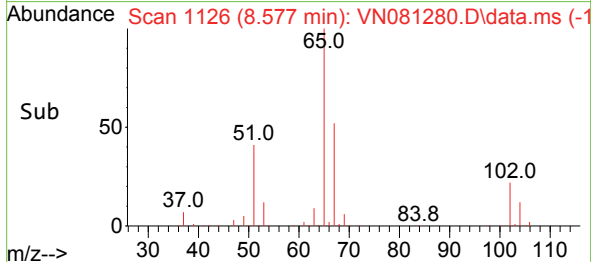
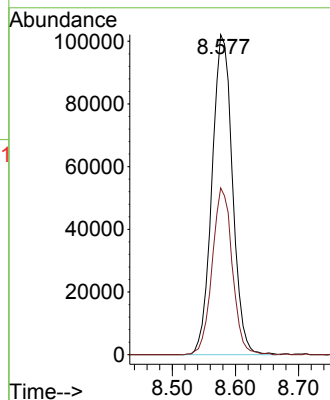
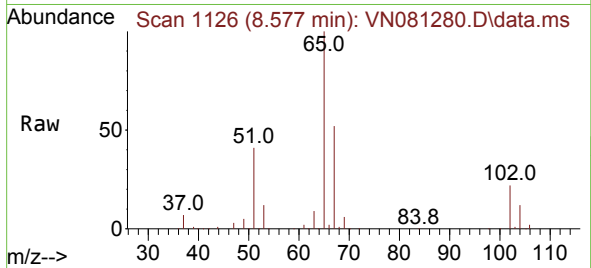
PB153949ZHE#02

Tgt Ion: 65 Resp: 230114

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

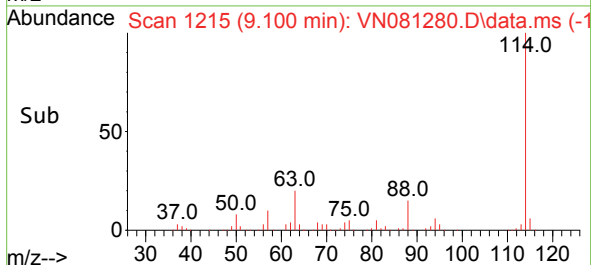
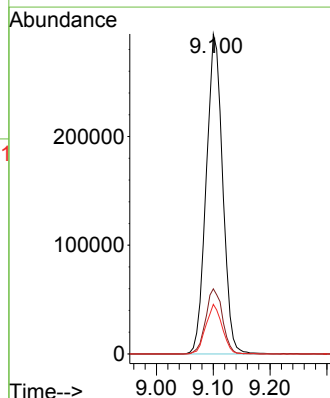
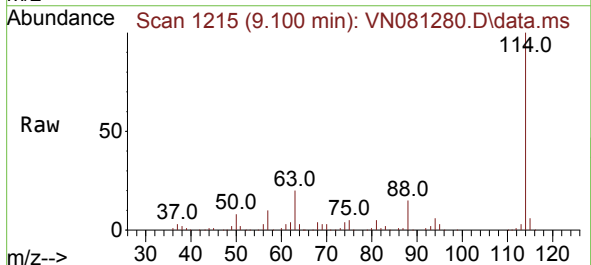
Tgt Ion: 114 Resp: 589258

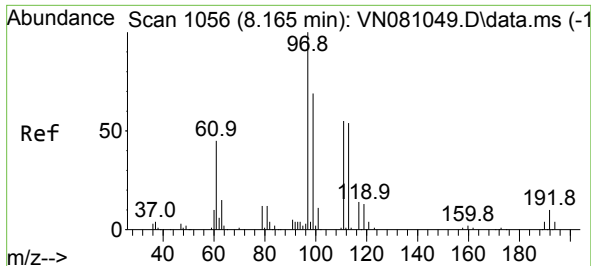
Ion Ratio Lower Upper

114 100

63 20.4 0.0 48.0

88 15.5 0.0 34.8

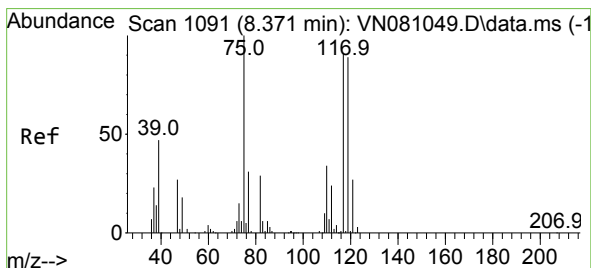
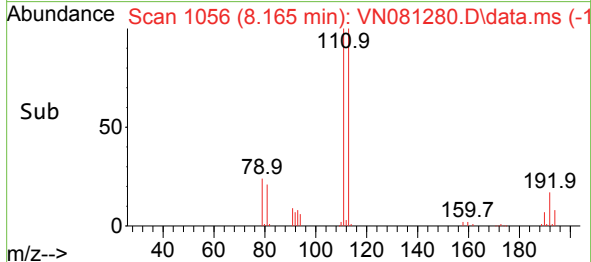
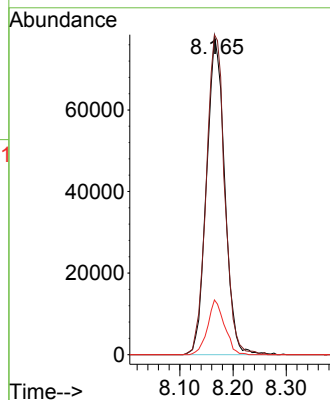
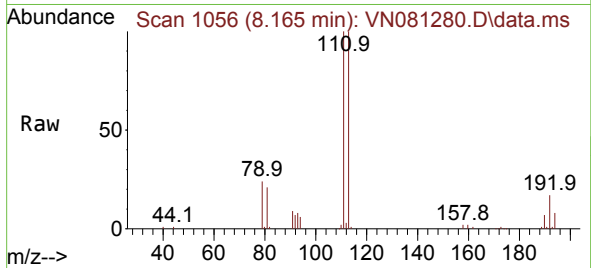




#35
Dibromofluoromethane
Concen: 55.529 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

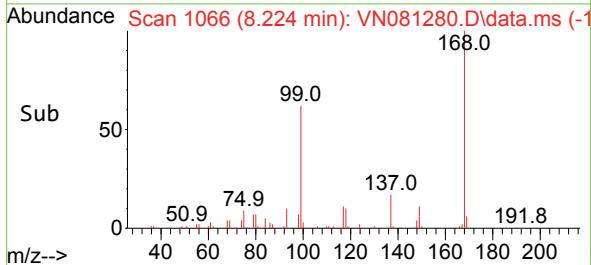
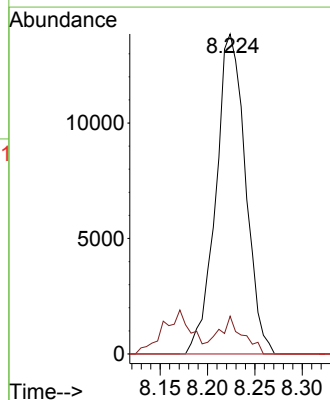
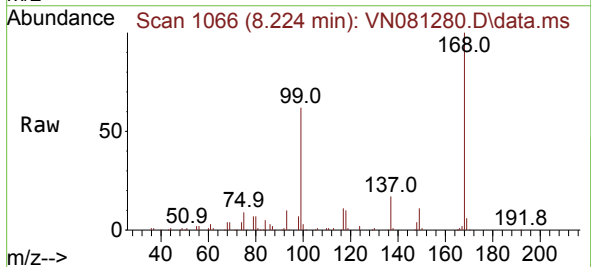
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

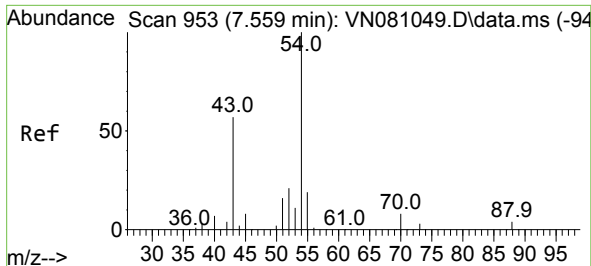
Tgt Ion:113 Resp: 185026
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.4
192 16.0 12.5 18.7



#36
1,1-Dichloropropene
Concen: 5.275 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 75 Resp: 30110
Ion Ratio Lower Upper
75 100
110 9.2 16.0 48.0#
77 0.0 25.8 38.6#

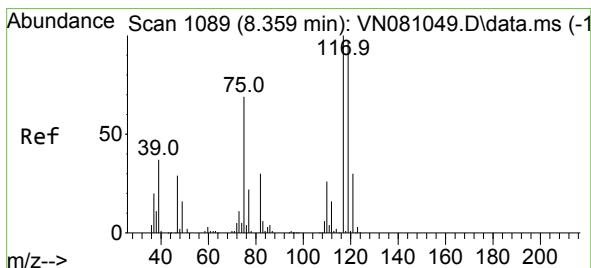
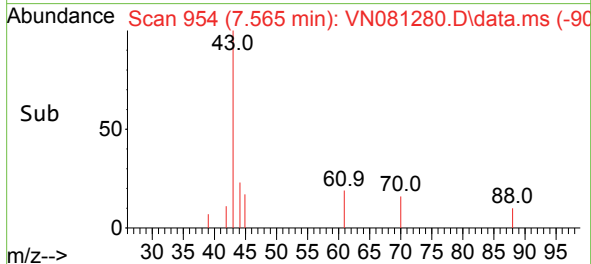
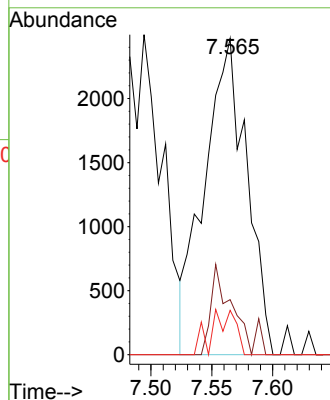
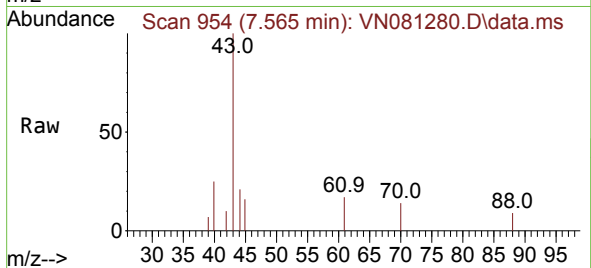




#37
Ethyl Acetate
Concen: 1.153 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

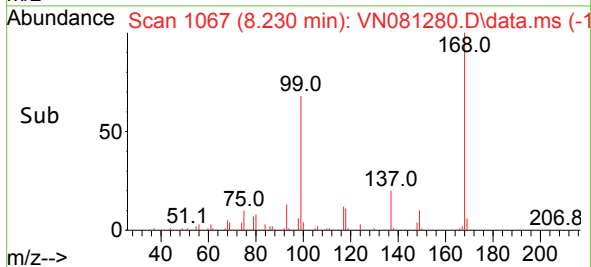
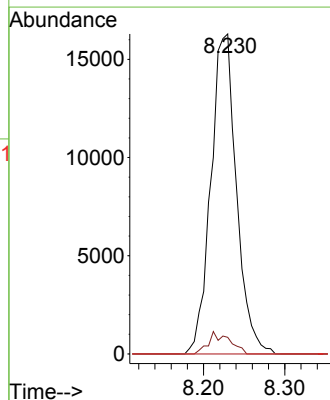
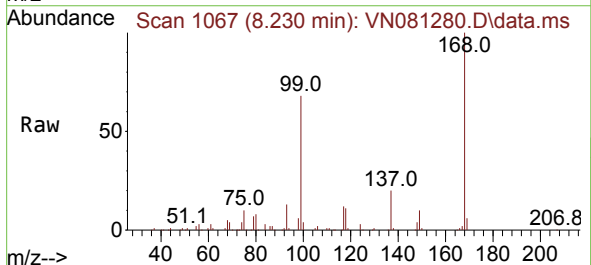
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

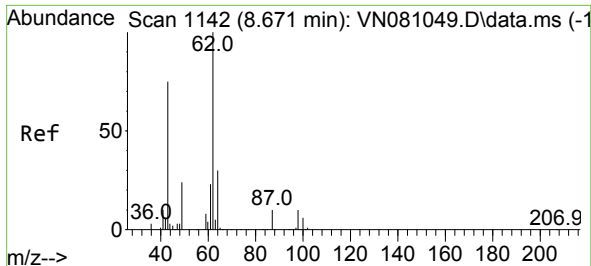
Tgt Ion:	43	Resp:	5939
Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.6	15.8
70	8.2	8.0	12.0



#38
Carbon Tetrachloride
Concen: 6.204 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion:	117	Resp:	35833
Ion	Ratio	Lower	Upper
117	100		
119	5.2	73.4	110.2#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.427 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

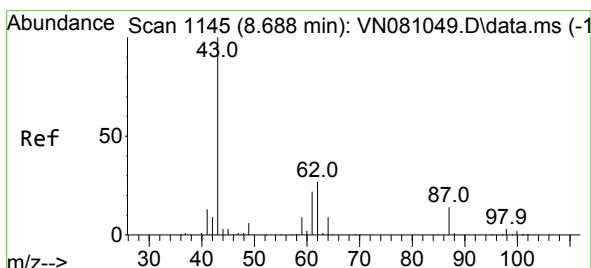
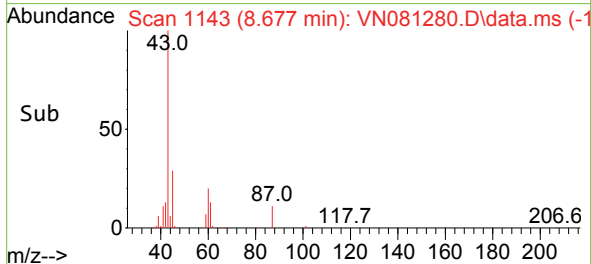
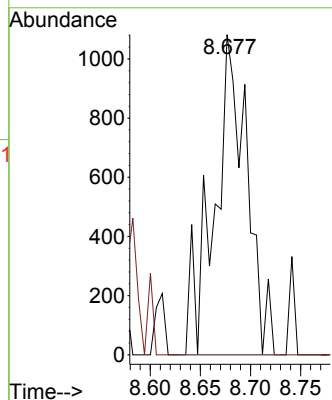
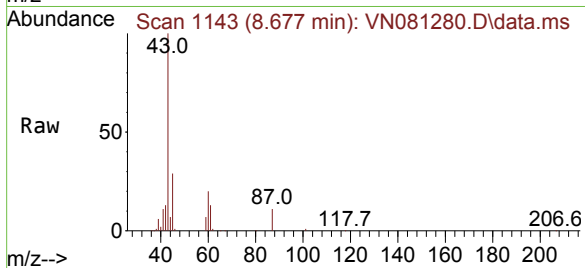
PB153949ZHE#02

Tgt Ion: 62 Resp: 2462

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 48.177 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

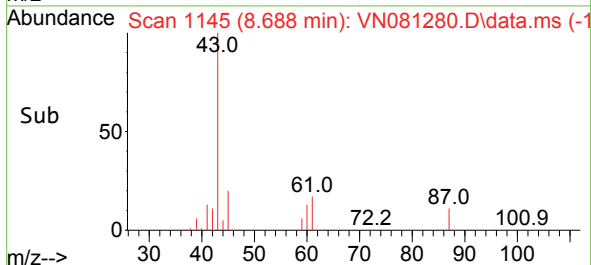
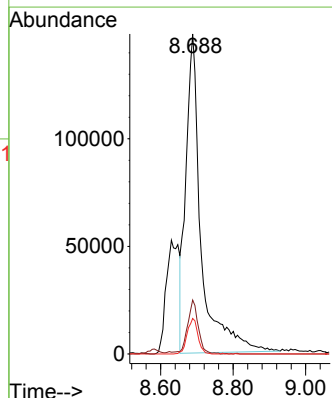
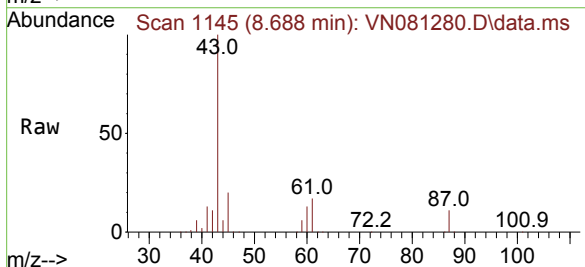
Tgt Ion: 43 Resp: 434103

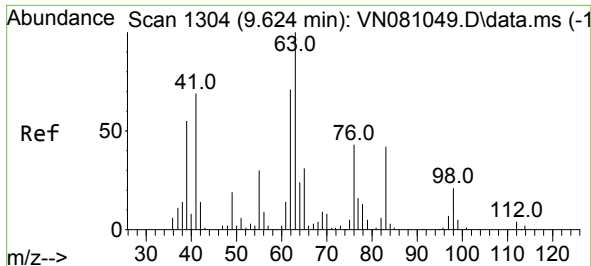
Ion Ratio Lower Upper

43 100

61 11.8 19.9 29.9#

87 7.8 9.0 13.6#





#45

1,2-Dichloropropane

Concen: 0.707 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

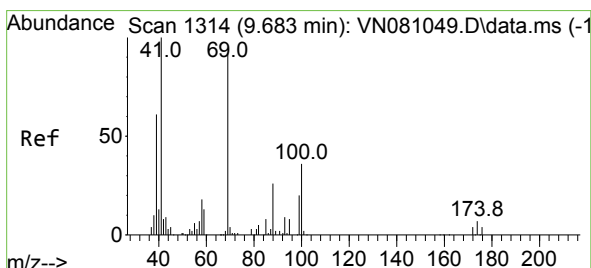
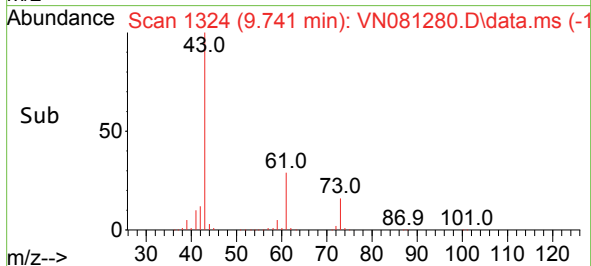
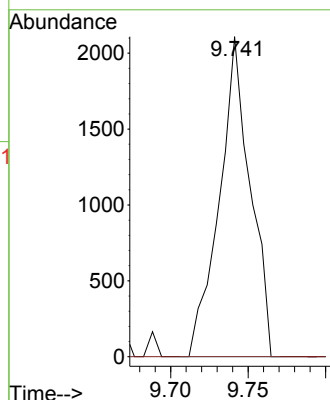
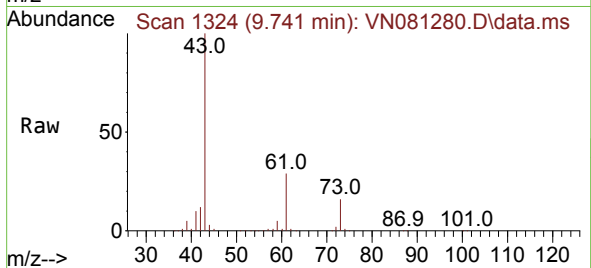
PB153949ZHE#02

Tgt Ion: 63 Resp: 2921

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.427 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.012 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

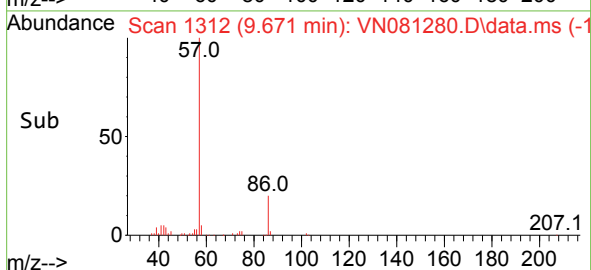
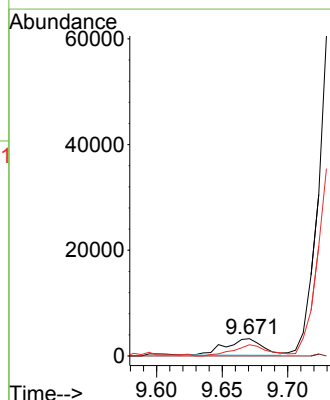
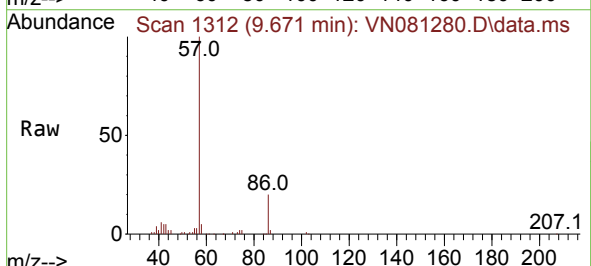
Tgt Ion: 41 Resp: 5983

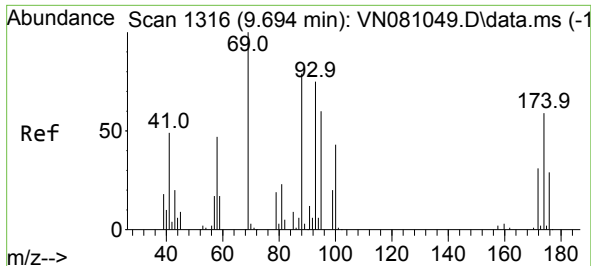
Ion Ratio Lower Upper

41 100

69 0.0 62.2 93.2#

39 64.3 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN081280.D

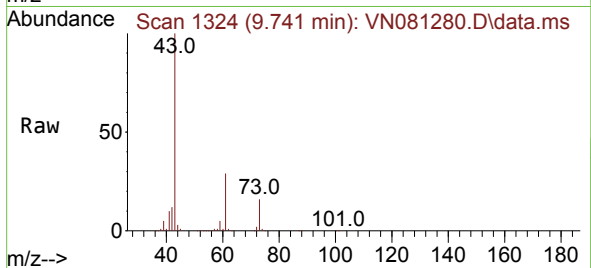
Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB153949ZHE#02



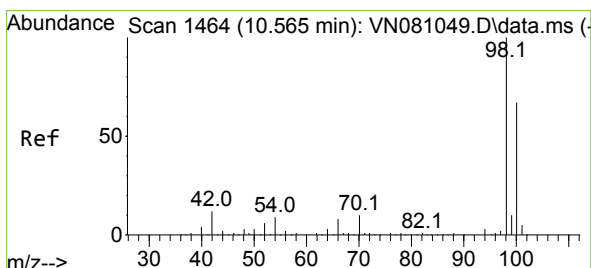
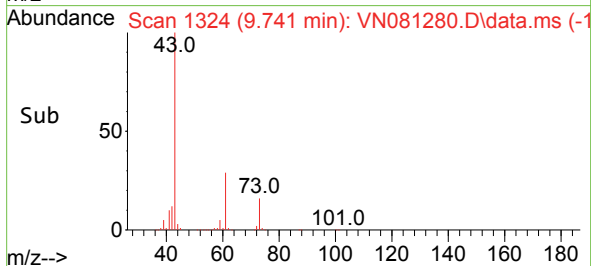
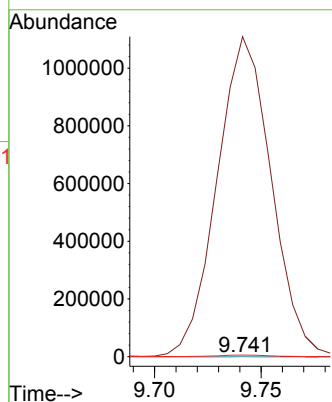
Tgt Ion: 88 Resp: 327

Ion Ratio Lower Upper

88 100

43 603037.3 30.1 45.1#

58 3177.4 63.9 95.9#



#50

Toluene-d8

Concen: 60.249 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081280.D

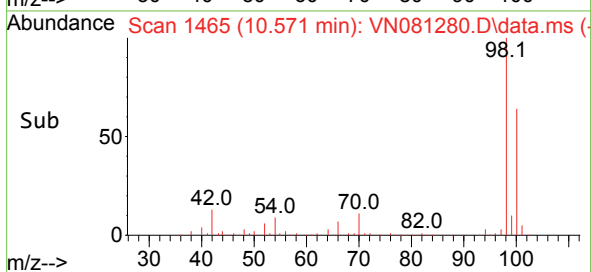
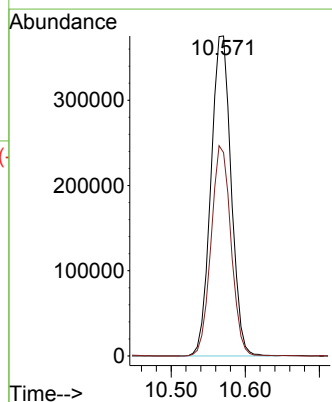
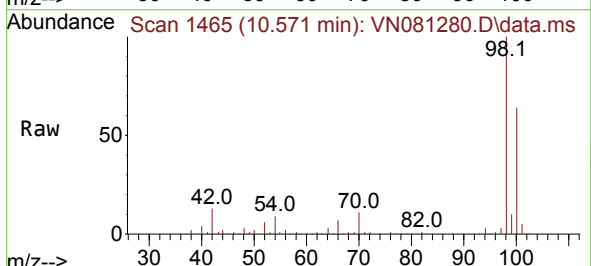
Acq: 01 Mar 2024 13:08

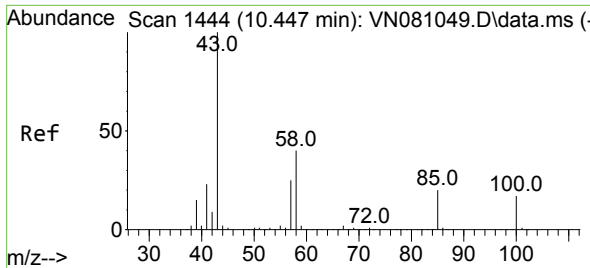
Tgt Ion: 98 Resp: 713022

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0

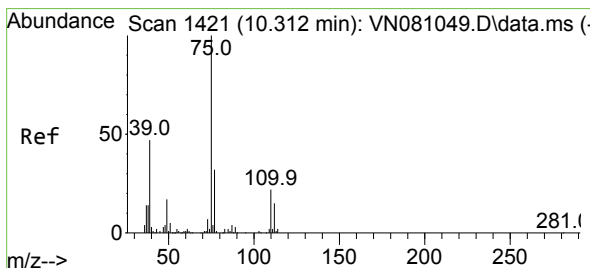
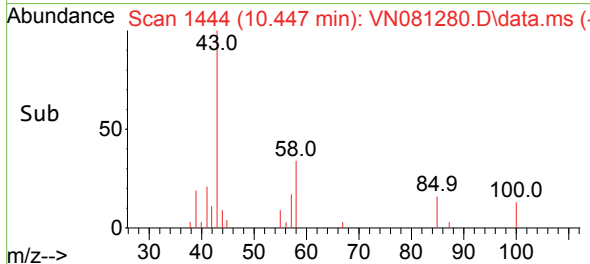
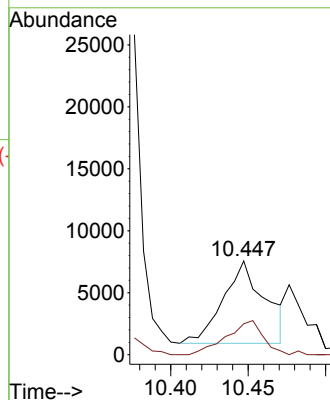
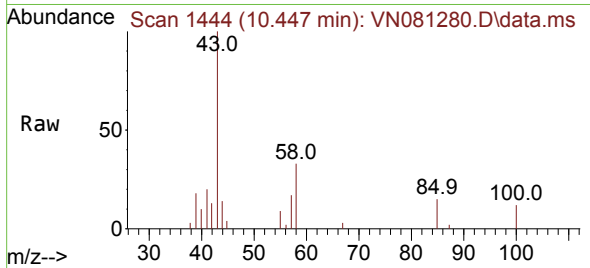




#51
4-Methyl-2-Pentanone
Concen: 2.390 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

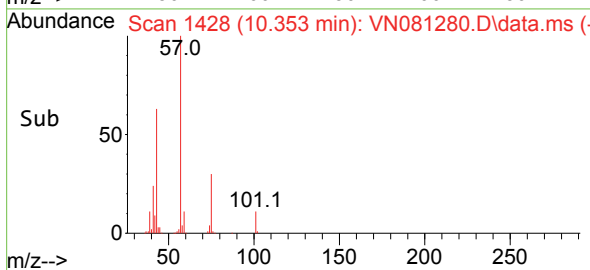
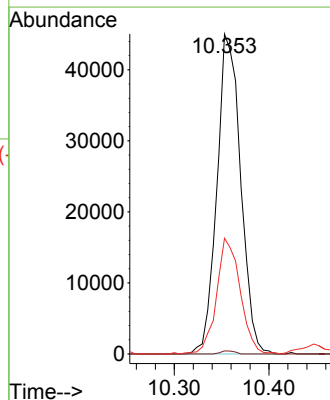
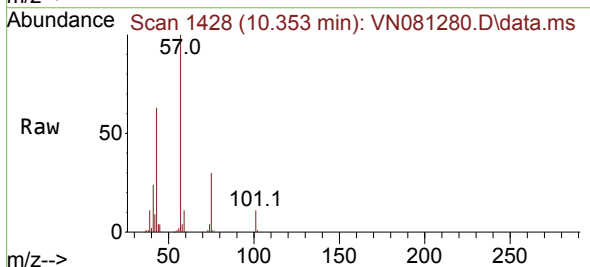
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

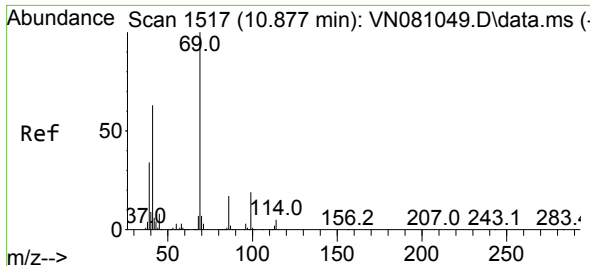
Tgt Ion: 43 Resp: 12389
Ion Ratio Lower Upper
43 100
58 37.3 29.4 44.0



#54
cis-1,3-Dichloropropene
Concen: 11.428 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 75 Resp: 78258
Ion Ratio Lower Upper
75 100
77 0.9 23.3 34.9#
39 35.0 44.6 66.8#

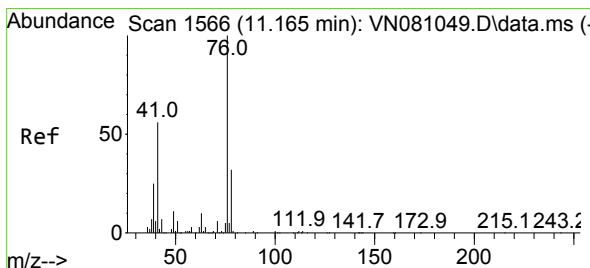
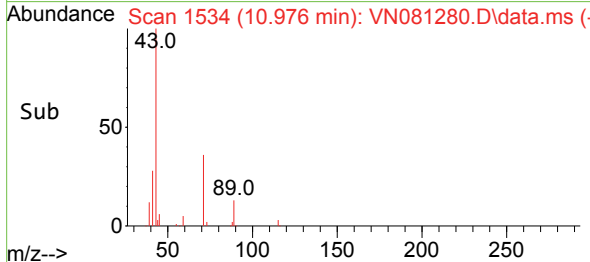
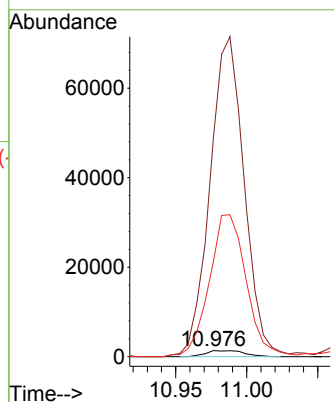
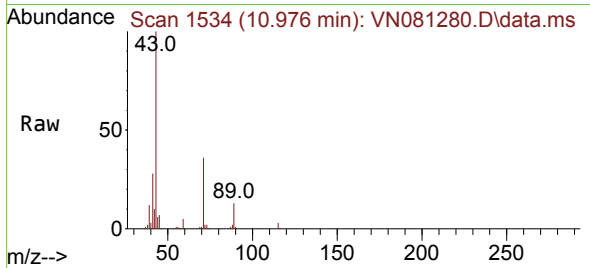




#56
Ethyl methacrylate
Concen: 0.416 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.100 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

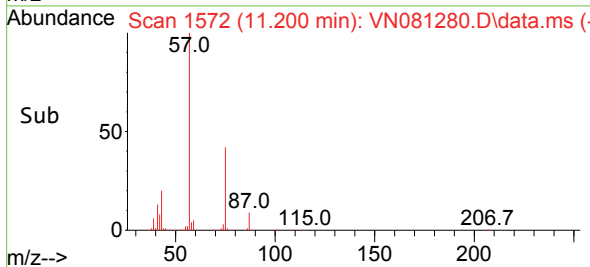
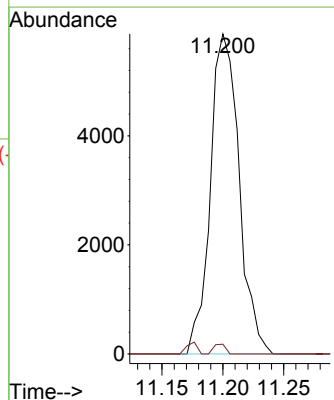
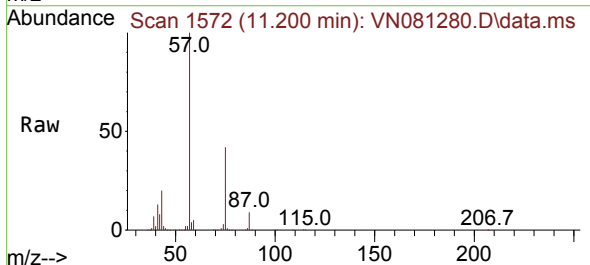
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

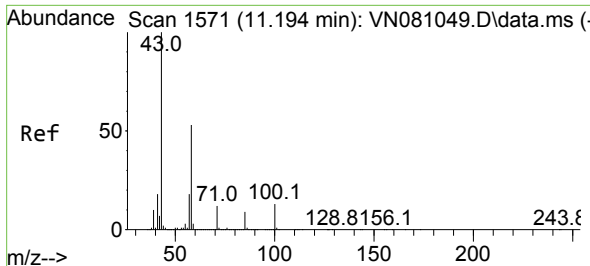
Tgt Ion: 69 Resp: 2560
Ion Ratio Lower Upper
69 100
41 4708.7 61.0 91.6#
39 2238.1 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.388 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 76 Resp: 9655
Ion Ratio Lower Upper
76 100
78 1.3 25.5 38.3#

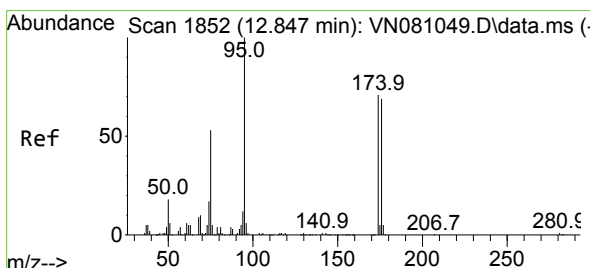
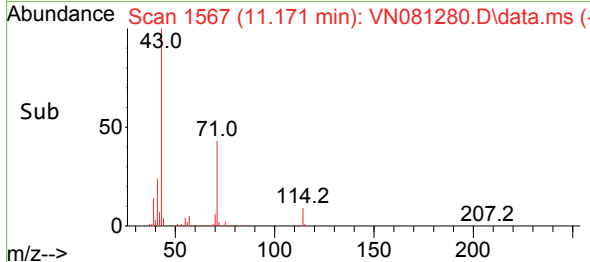
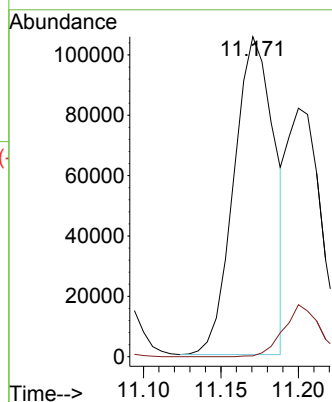
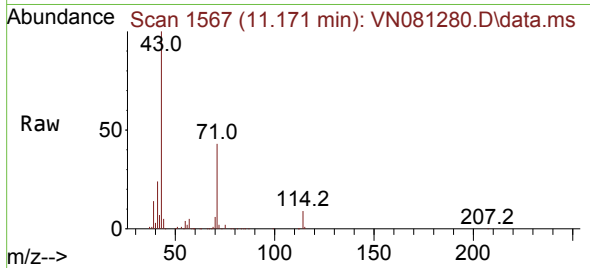




#59
2-Hexanone
Concen: 46.643 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

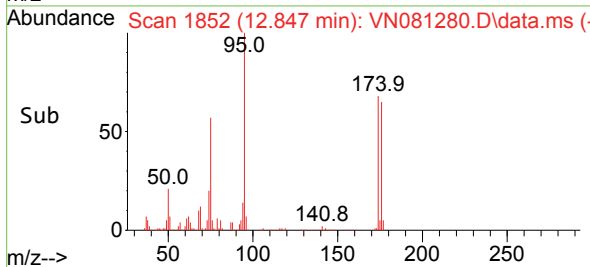
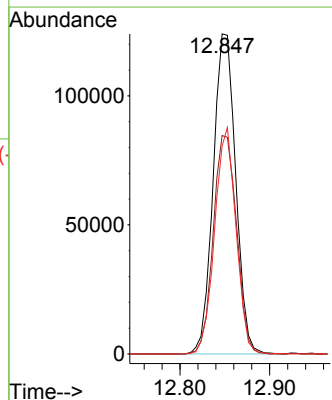
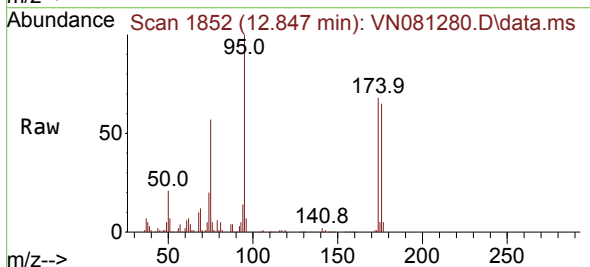
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

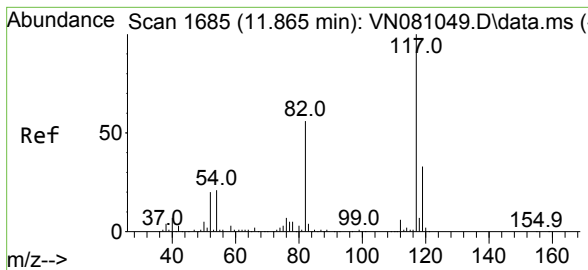
Tgt Ion: 43 Resp: 191674
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.627 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 95 Resp: 216241
Ion Ratio Lower Upper
95 100
174 70.7 0.0 120.4
176 67.0 0.0 121.0

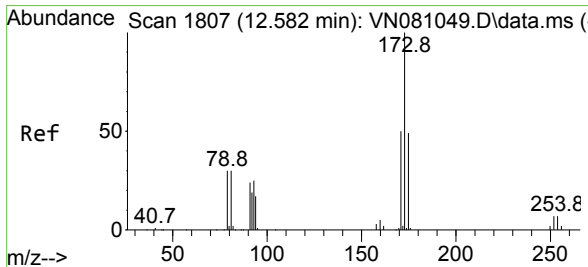
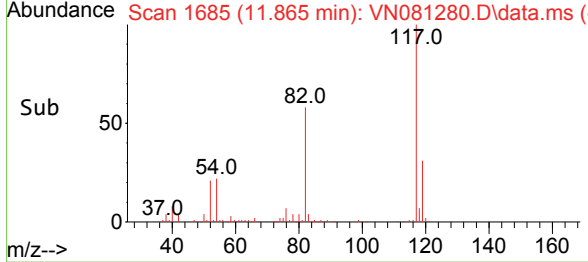
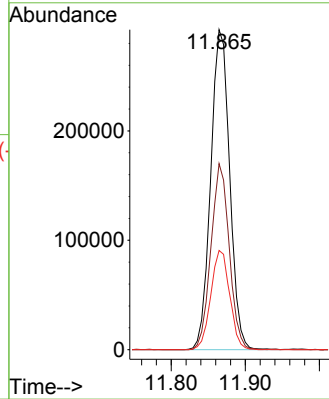
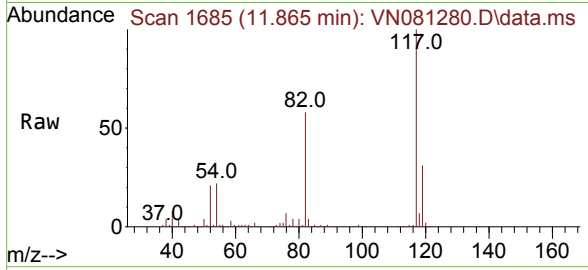




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

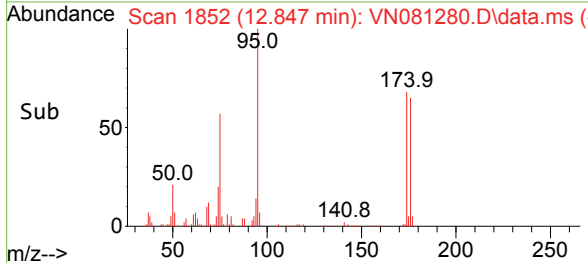
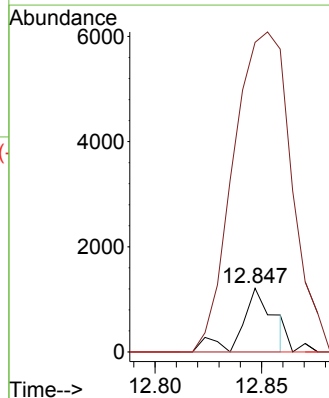
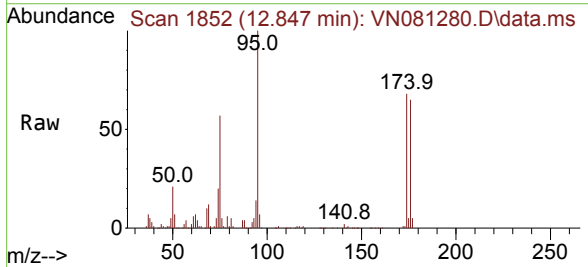
Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

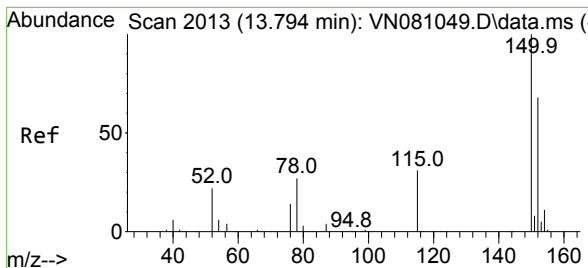
Tgt Ion:	117	Resp:	519007
Ion Ratio	Lower	Upper	
117	100		
82	58.1	52.7	79.1
119	31.0	25.3	37.9



#71
Bromoform
Concen: 0.497 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion:	173	Resp:	1271
Ion Ratio	Lower	Upper	
173	100		
175	766.9	23.1	69.2#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB153949ZHE#02

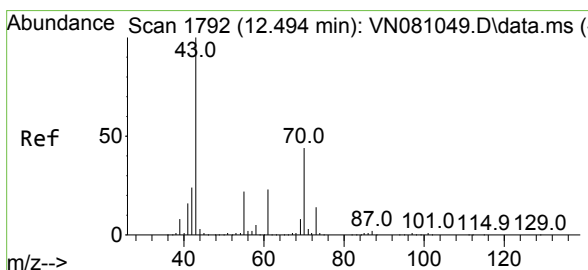
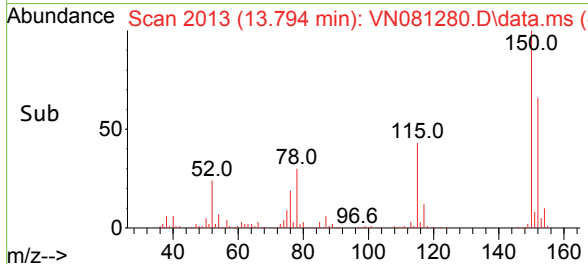
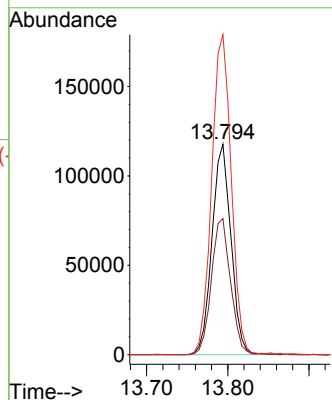
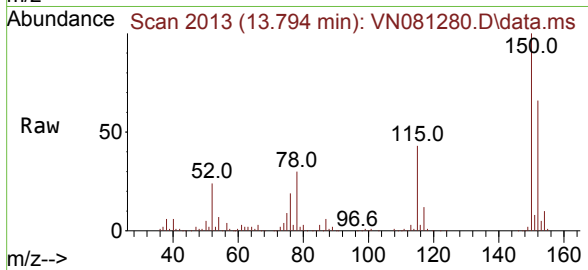
Tgt Ion:152 Resp: 191169

Ion Ratio Lower Upper

152 100

115 65.1 32.3 96.8

150 156.5 0.0 339.8



#74

N-ethyl acetate

Concen: 0.389 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.018 min

Lab File: VN081280.D

Acq: 01 Mar 2024 13:08

Tgt Ion: 43 Resp: 2749

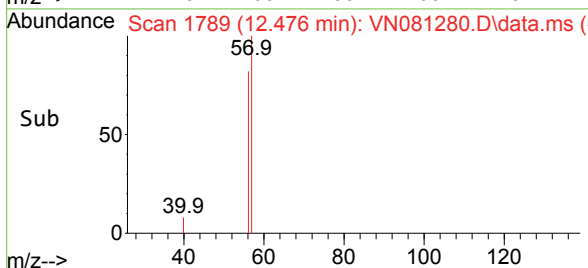
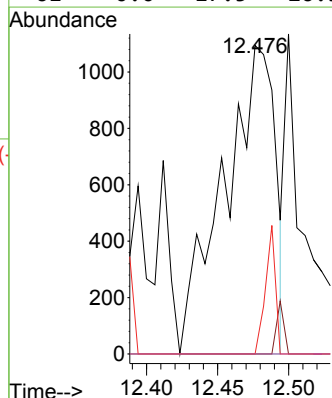
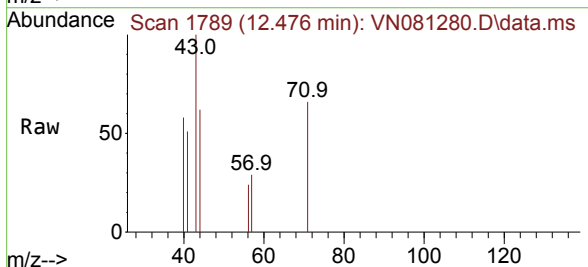
Ion Ratio Lower Upper

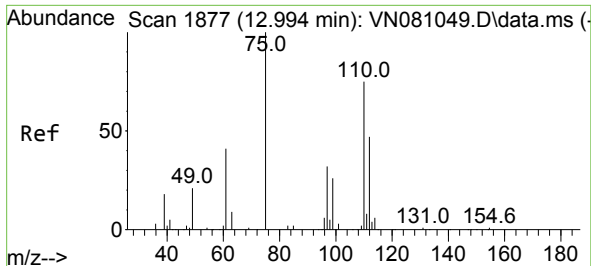
43 100

70 2.4 30.1 45.1#

55 8.0 17.0 25.4#

61 0.0 17.5 26.3#

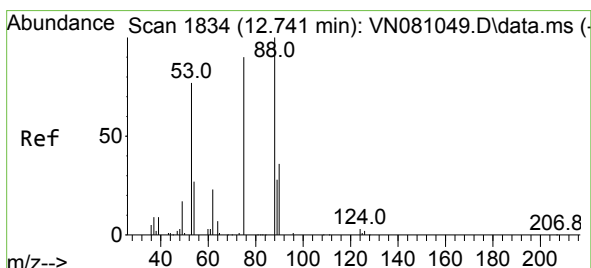
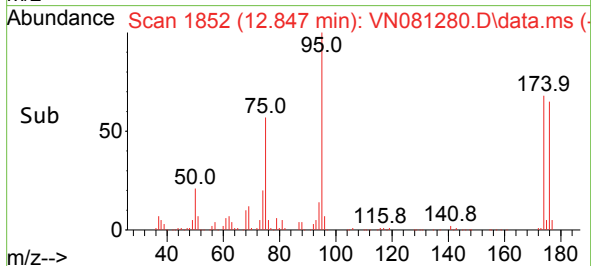
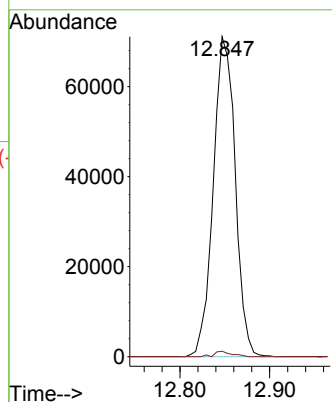
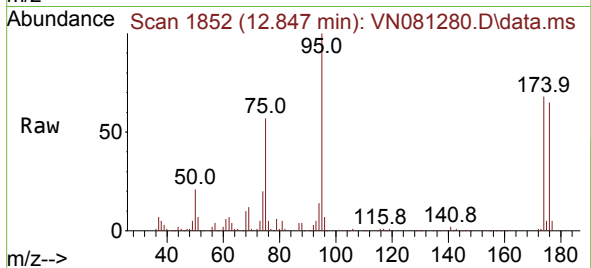




#76
1,2,3-Trichloropropane
Concen: 27.830 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Instrument :
MSVOA_N
ClientSampleId :
PB153949ZHE#02

Tgt Ion: 75 Resp: 120879
Ion Ratio Lower Upper
75 100
77 1.4 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.632 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081280.D
Acq: 01 Mar 2024 13:08

Tgt Ion: 75 Resp: 120879
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.1 33.4 50.0#

