

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032724\
 Data File : VN081588.D
 Acq On : 27 Mar 2024 16:21
 Operator : JC\MD
 Sample : PB159779ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159779ZHE#04

Quant Time: Mar 28 01:29:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

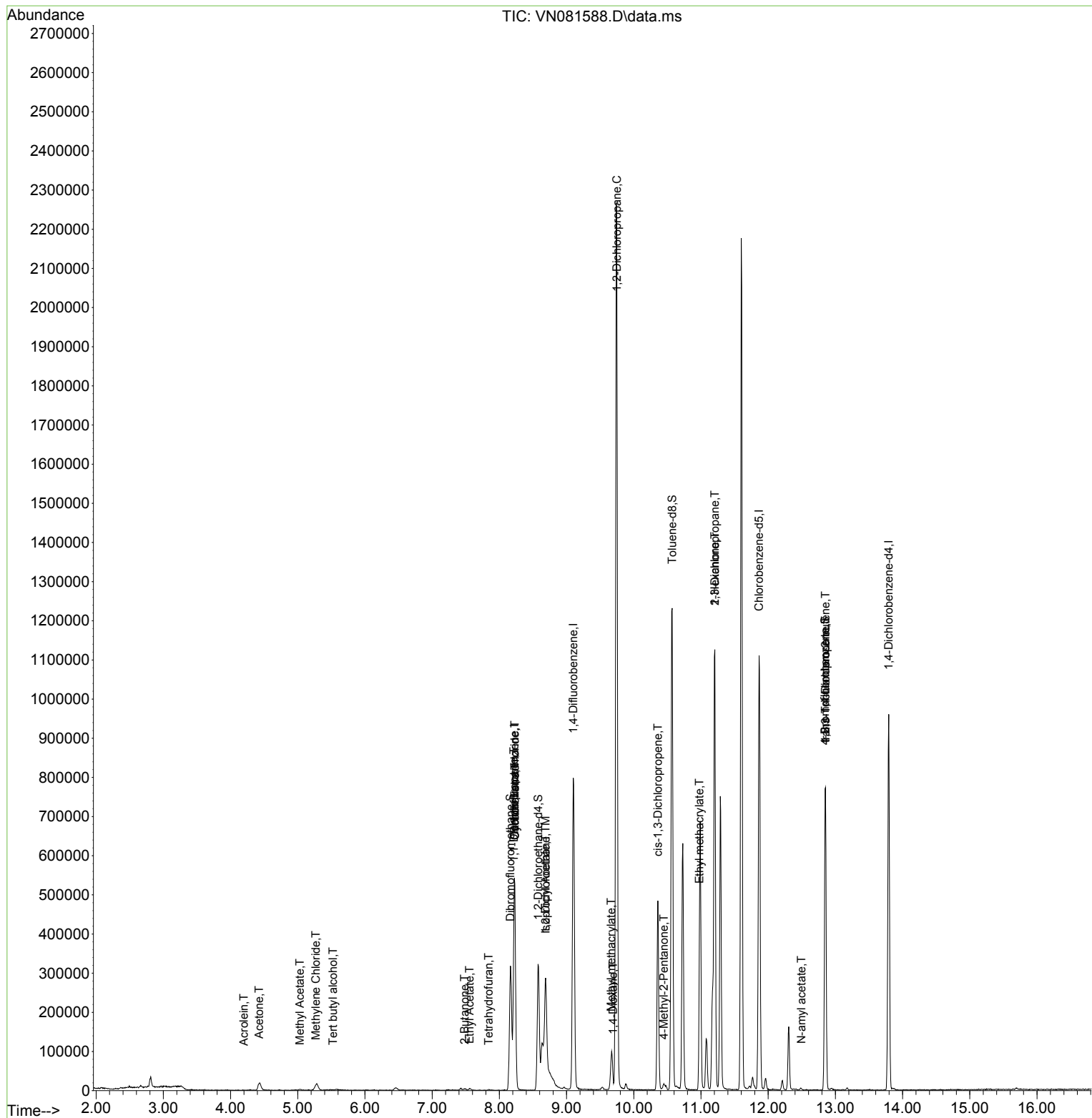
Internal Standards						
1) Pentafluorobenzene	8.224	168	381130	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	717025	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	676552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	254954	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	259232	53.335	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.680%			
35) Dibromofluoromethane	8.165	113	225941	49.930	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.860%			
50) Toluene-d8	10.571	98	882331	53.939	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.880%			
62) 4-Bromofluorobenzene	12.847	95	273763	47.496	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 95.000%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	488	0.576	ug/l	98
13) Acrolein	4.200	56	361	0.475	ug/l #	39
16) Acetone	4.424	43	35970	22.900	ug/l	99
18) Methyl Acetate	5.030	43	2304	0.476	ug/l #	45
20) Methylene Chloride	5.271	84	6811	1.324	ug/l #	78
25) 2-Butanone	7.483	43	6456	2.396	ug/l	100
29) Tetrahydrofuran	7.841	42	796	0.439	ug/l #	83
31) Cyclohexane	8.230	56	9737	1.231	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	31513	4.138	ug/l #	51
37) Ethyl Acetate	7.559	43	5843	0.896	ug/l	98
38) Carbon Tetrachloride	8.230	117	43825	5.253	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	2564	0.327	ug/l #	75
43) Isopropyl Acetate	8.688	43	391267	36.198	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	3518	0.652	ug/l #	42
48) Methyl methacrylate	9.665	41	6094	1.222	ug/l #	48
49) 1,4-Dioxane	9.694	88	88	0.734	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	10019	1.519	ug/l	94
54) cis-1,3-Dichloropropene	10.359	75	87251	9.407	ug/l #	63
56) Ethyl methacrylate	10.976	69	3023	0.962	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	13506	1.447	ug/l #	43
59) 2-Hexanone	11.206	43	134849	27.653	ug/l #	60
74) N-amyl acetate	12.494	43	2909	0.370	ug/l #	48
76) 1,2,3-Trichloropropane	12.853	75	139749	22.915	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	139749	61.923	ug/l #	14

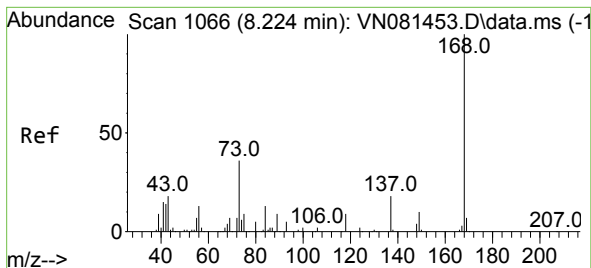
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 28 01:29:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 19 06:00:00 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

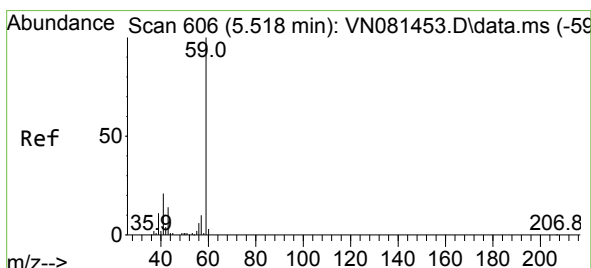
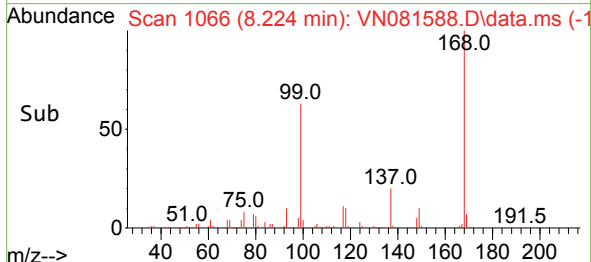
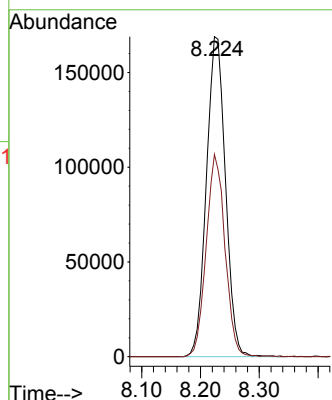
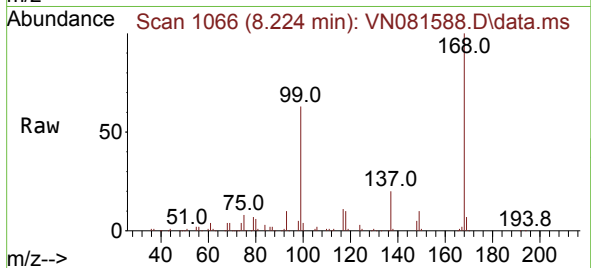
PB159779ZHE#04

Tgt Ion:168 Resp: 381130

Ion Ratio Lower Upper

168 100

99 63.2 59.9 89.9



#11

Tert butyl alcohol

Concen: 0.576 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN081588.D

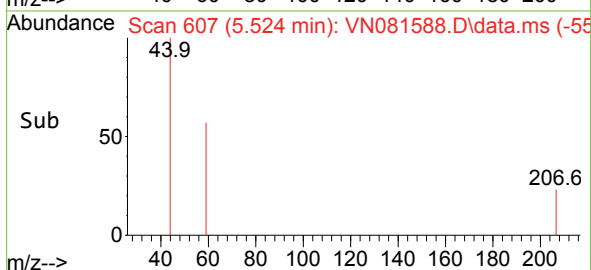
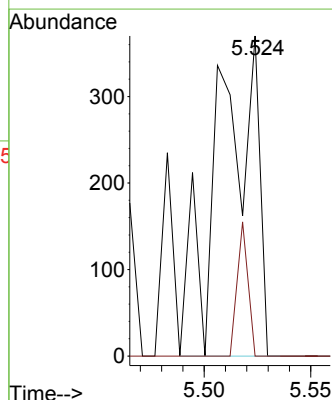
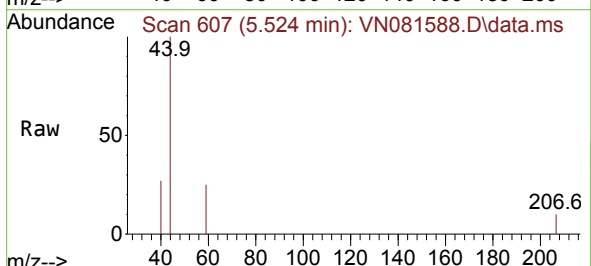
Acq: 27 Mar 2024 16:21

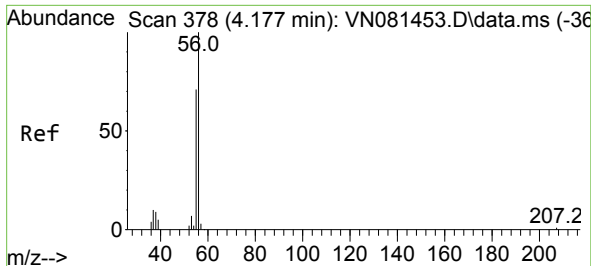
Tgt Ion: 59 Resp: 488

Ion Ratio Lower Upper

59 100

57 11.3 8.6 12.8

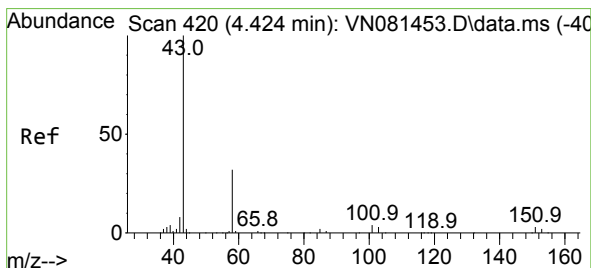
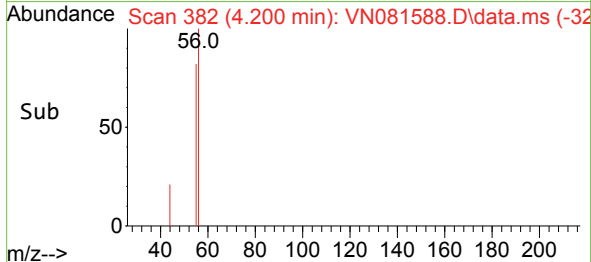
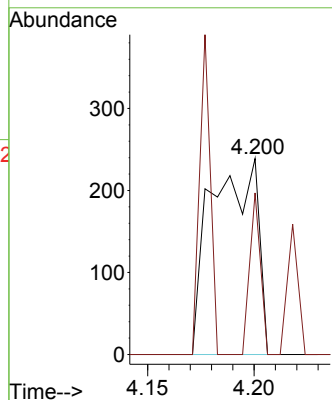
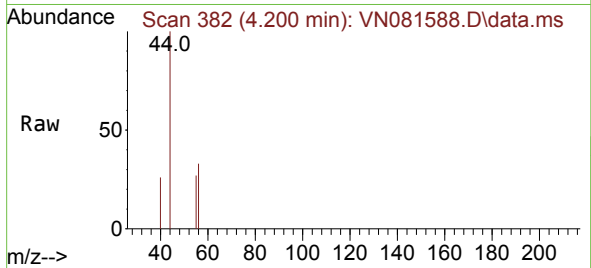




#13
Acrolein
Concen: 0.475 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.024 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

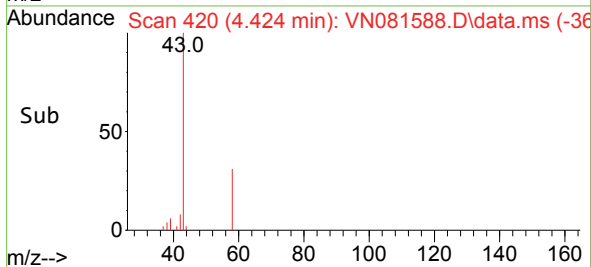
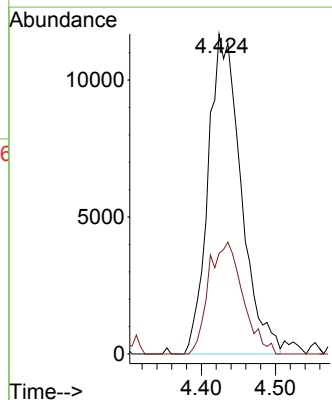
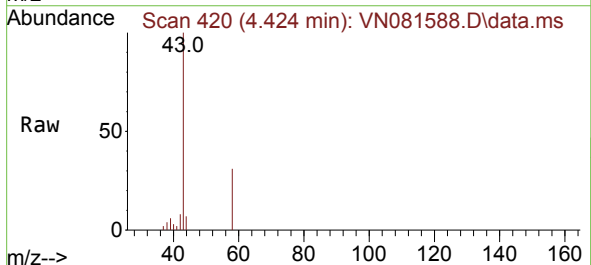
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

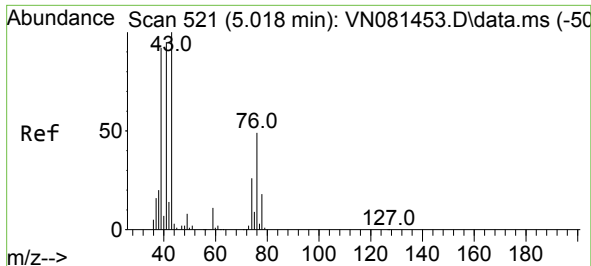
Tgt Ion: 56 Resp: 361
Ion Ratio Lower Upper
56 100
55 19.4 55.3 82.9#



#16
Acetone
Concen: 22.900 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 43 Resp: 35970
Ion Ratio Lower Upper
43 100
58 31.4 24.8 37.2

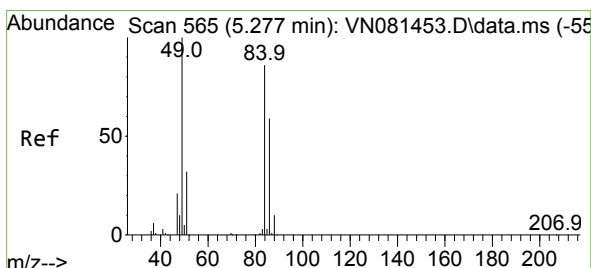
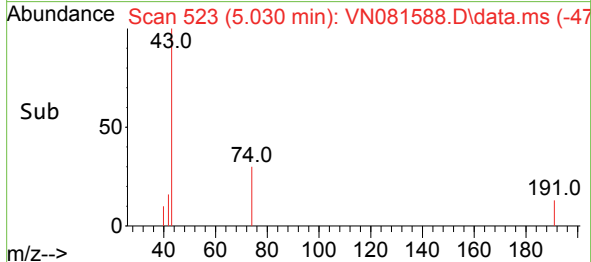
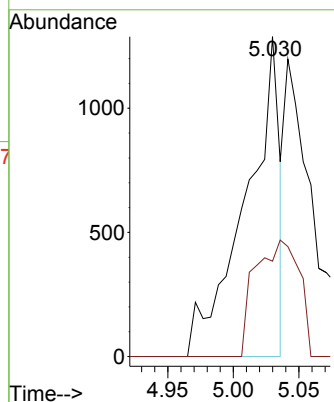
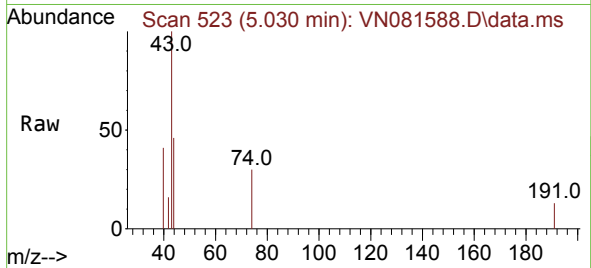




#18
Methyl Acetate
Concen: 0.476 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

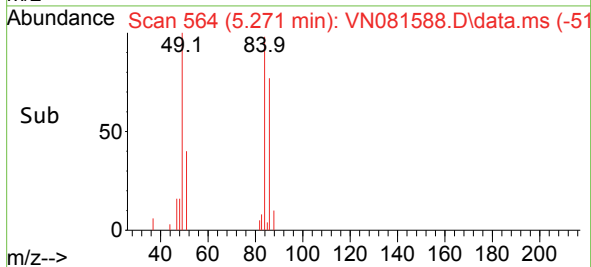
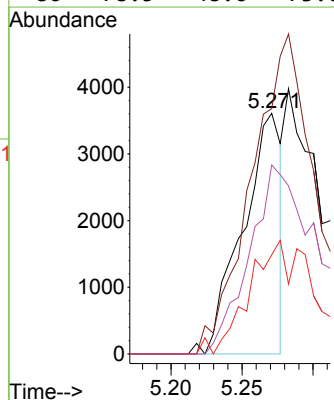
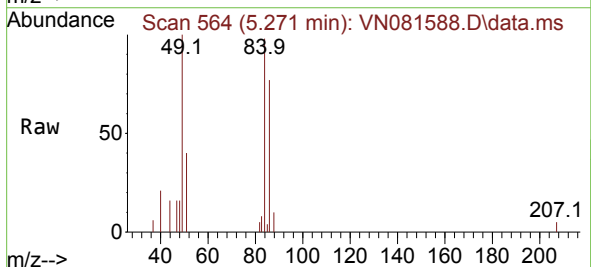
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

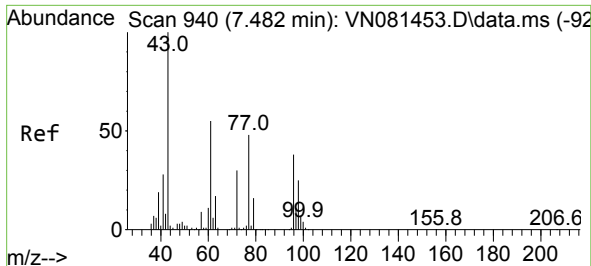
Tgt Ion: 43 Resp: 2304
Ion Ratio Lower Upper
43 100
74 47.4 17.3 25.9#



#20
Methylene Chloride
Concen: 1.324 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 84 Resp: 6811
Ion Ratio Lower Upper
84 100
49 101.9 108.1 162.1#
51 41.2 32.9 49.3
86 78.5 48.6 73.0#

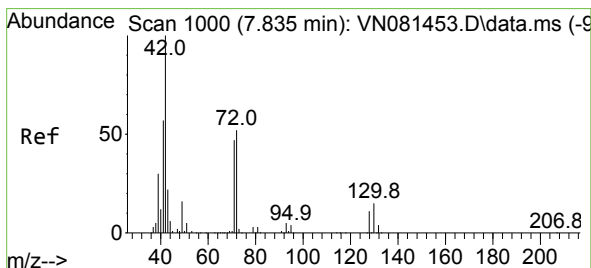
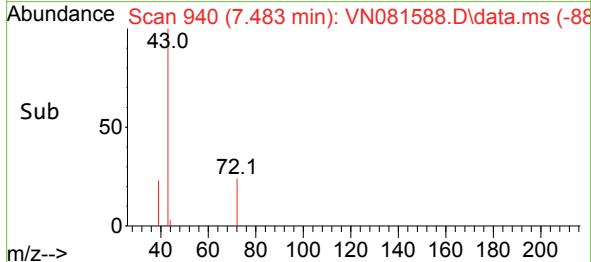
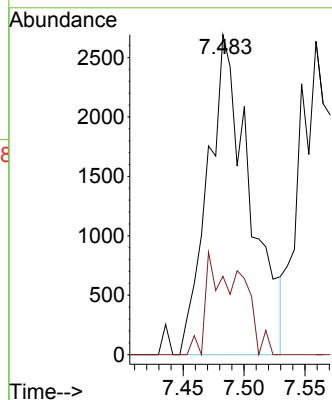
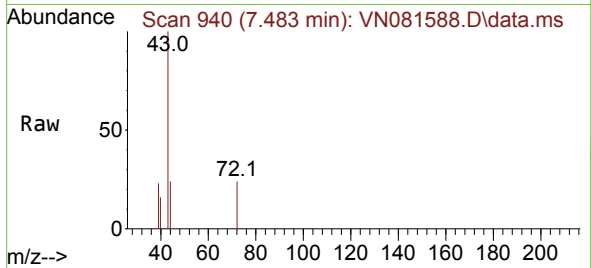




#25
2-Butanone
Concen: 2.396 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

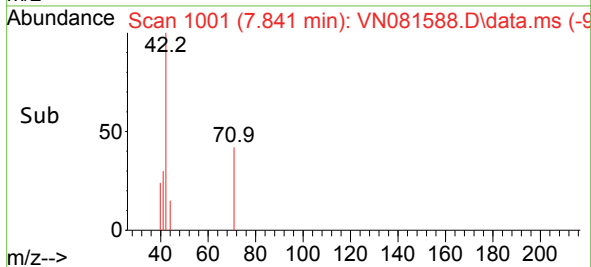
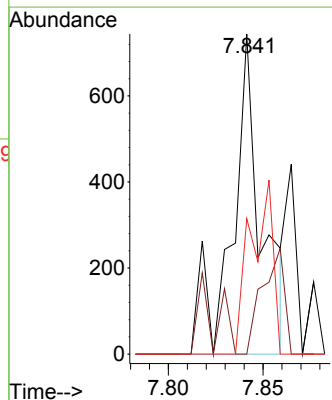
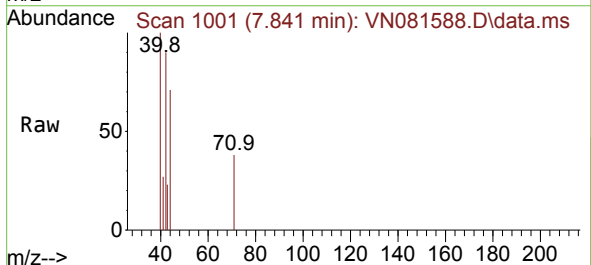
Instrument :
MSVOA_N
ClientSampleId :
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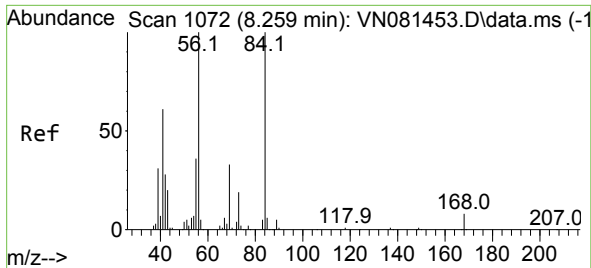
Tgt Ion: 43 Resp: 6456
Ion Ratio Lower Upper
43 100
72 24.5 19.5 29.3



#29
Tetrahydrofuran
Concen: 0.439 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

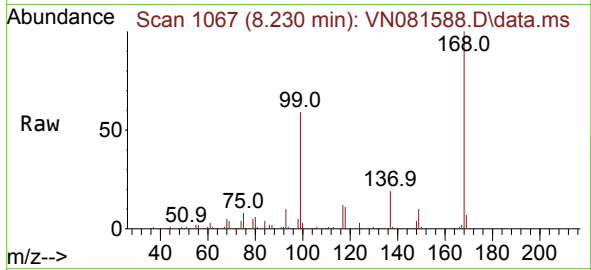
Tgt Ion: 42 Resp: 796
Ion Ratio Lower Upper
42 100
72 25.0 31.1 46.7#
71 41.3 28.3 42.5



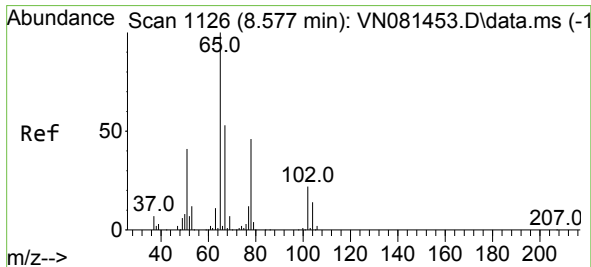
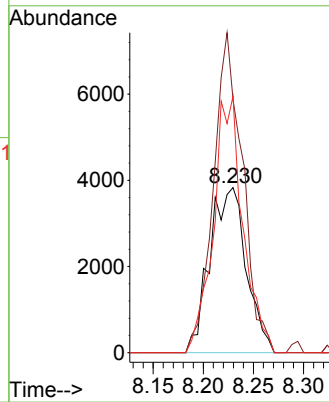
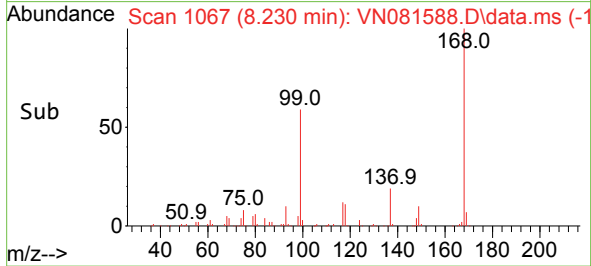


#31
Cyclohexane
Concen: 1.231 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

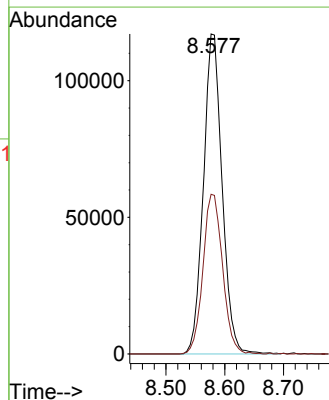
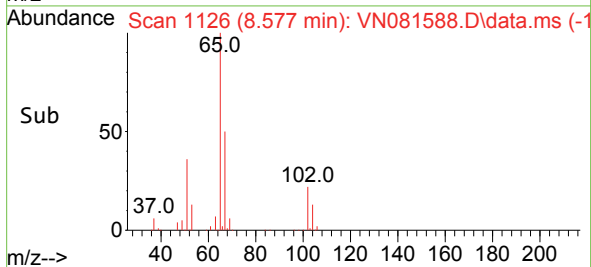
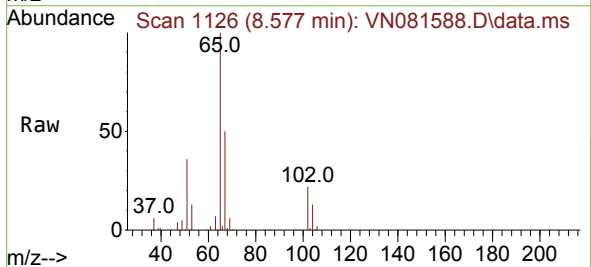


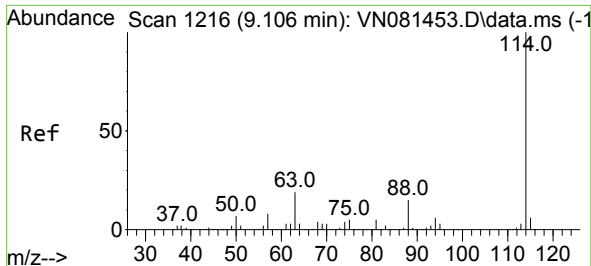
Tgt Ion: 56 Resp: 9737
Ion Ratio Lower Upper
56 100
69 153.4 20.1 30.1#
84 155.4 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 53.335 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 65 Resp: 259232
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#04

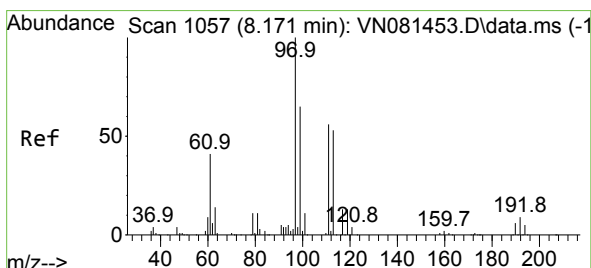
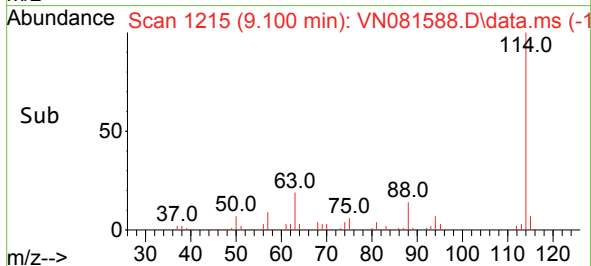
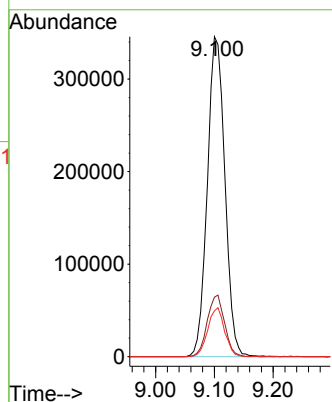
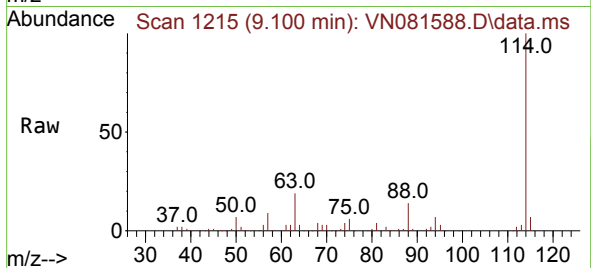
Tgt Ion:114 Resp: 717025

Ion Ratio Lower Upper

114 100

63 18.6 0.0 48.0

88 14.3 0.0 34.8



#35

Dibromofluoromethane

Concen: 49.930 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

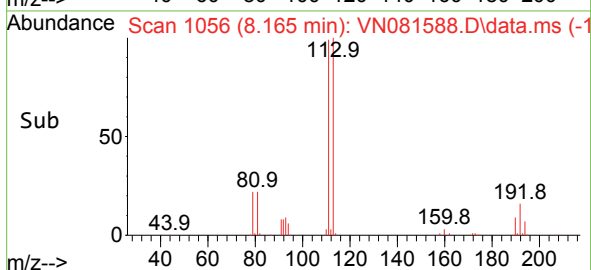
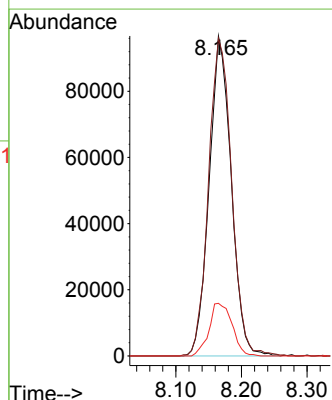
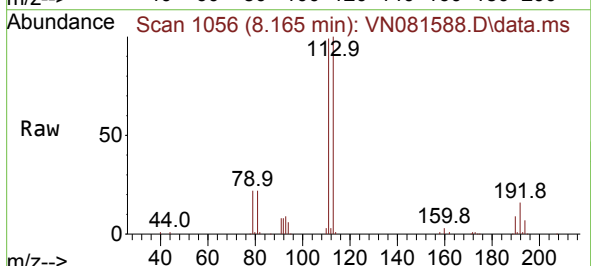
Tgt Ion:113 Resp: 225941

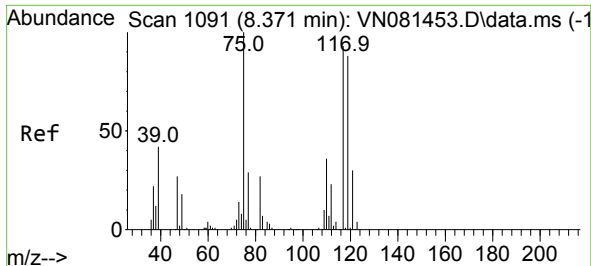
Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.4

192 17.2 12.5 18.7

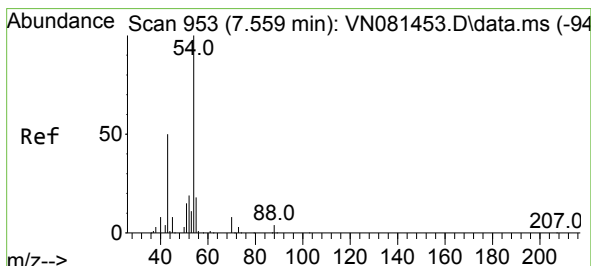
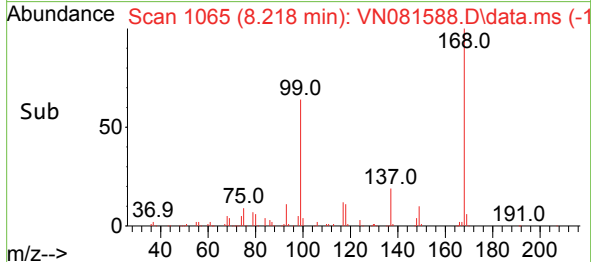
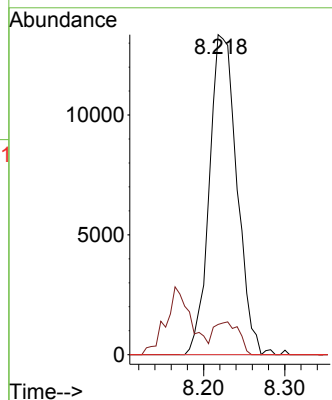
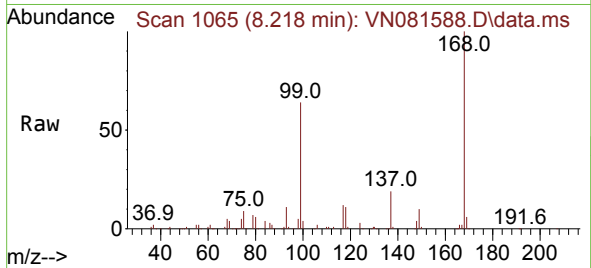




#36
1,1-Dichloropropene
Concen: 4.138 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

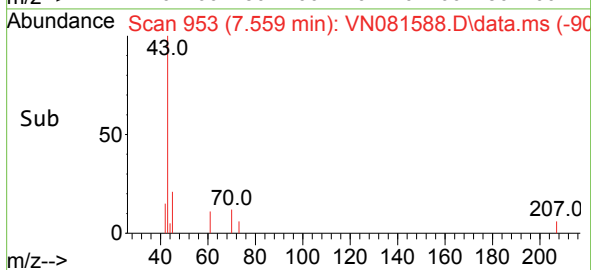
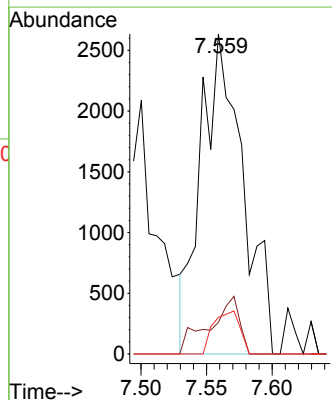
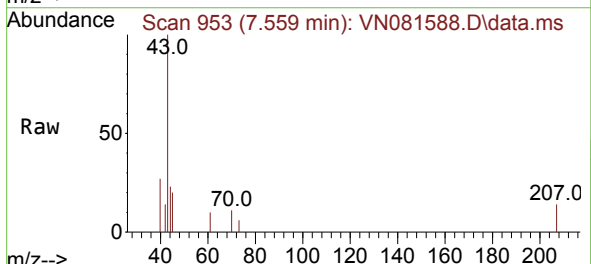
Instrument :
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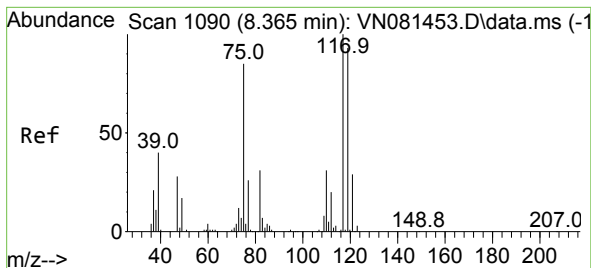
Tgt Ion: 75 Resp: 31513
Ion Ratio Lower Upper
75 100
110 9.3 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 0.896 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 43 Resp: 5843
Ion Ratio Lower Upper
43 100
61 13.0 10.6 15.8
70 8.4 8.0 12.0





#38

Carbon Tetrachloride

Concen: 5.253 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.135 min

Lab File: VN081588.D

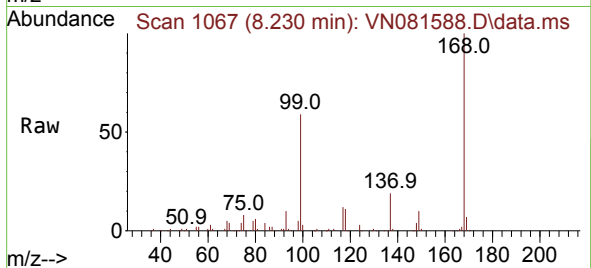
Acq: 27 Mar 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#04



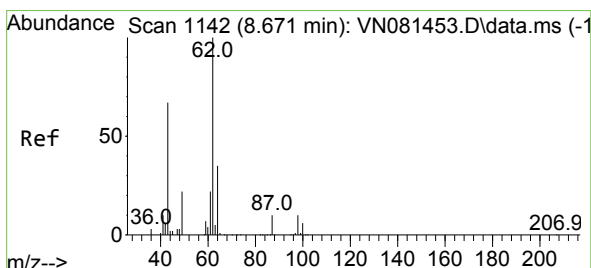
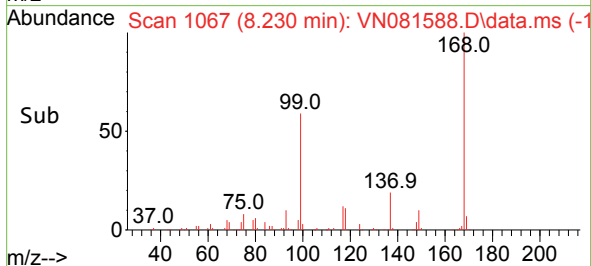
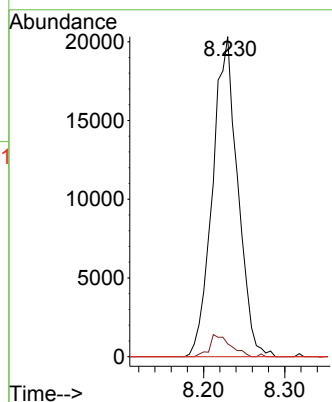
Tgt Ion:117 Resp: 43825

Ion Ratio Lower Upper

117 100

119 4.0 73.4 110.2#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.327 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN081588.D

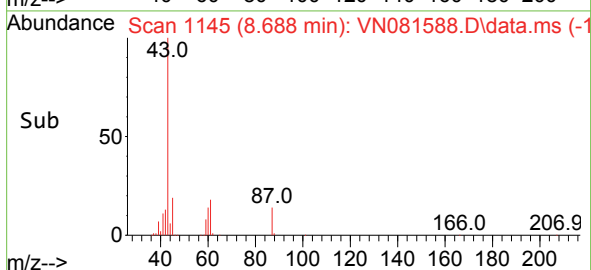
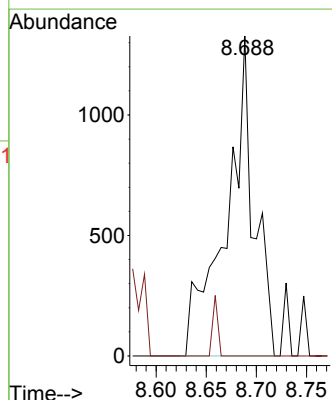
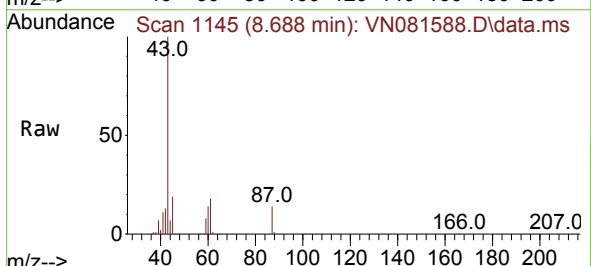
Acq: 27 Mar 2024 16:21

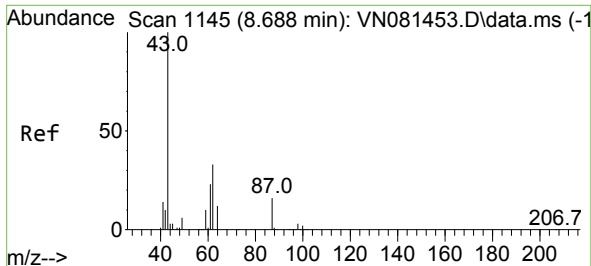
Tgt Ion: 62 Resp: 2564

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0

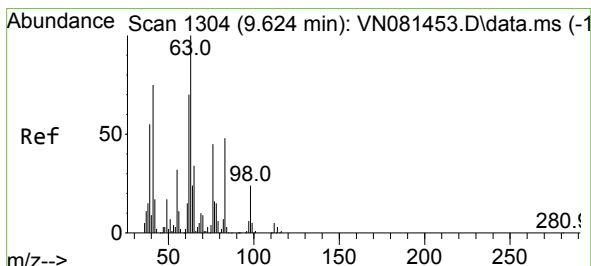
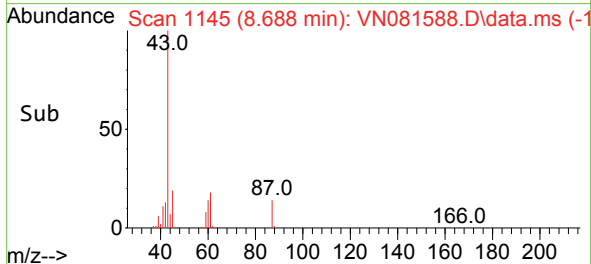
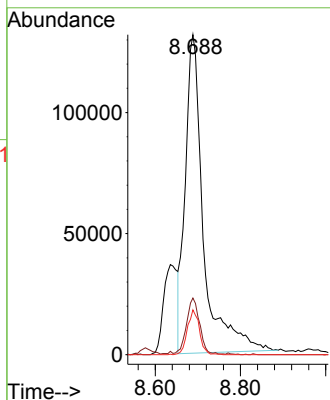
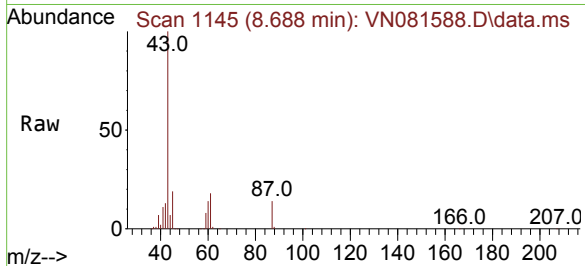




#43
Isopropyl Acetate
Concen: 36.198 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

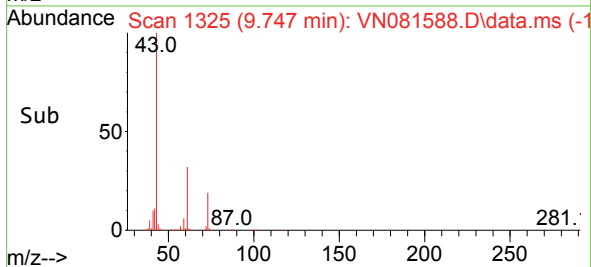
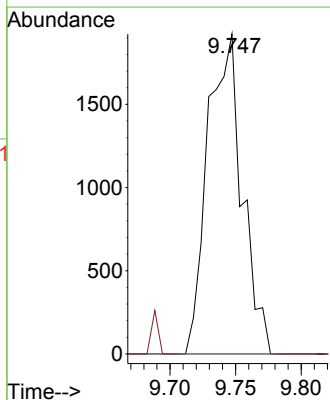
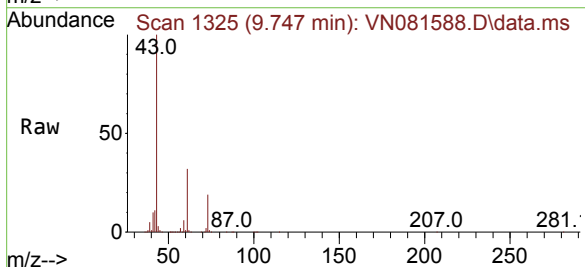
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

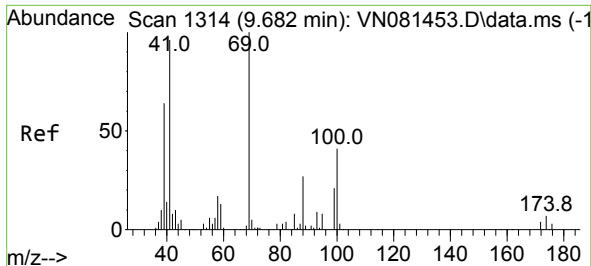
Tgt Ion: 43 Resp: 391267
Ion Ratio Lower Upper
43 100
61 12.9 19.9 29.9#
87 9.3 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.652 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

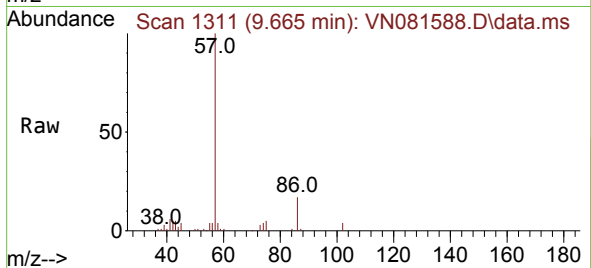
Tgt Ion: 63 Resp: 3518
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#



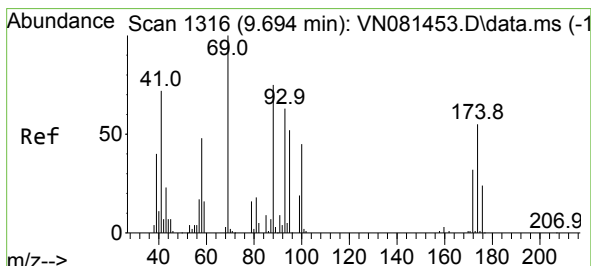
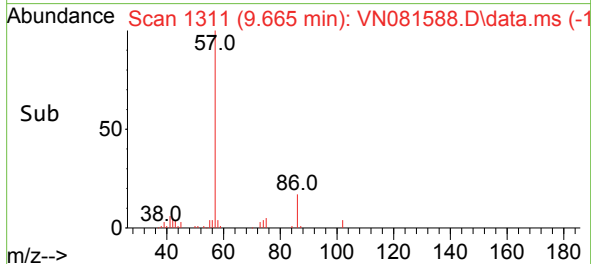
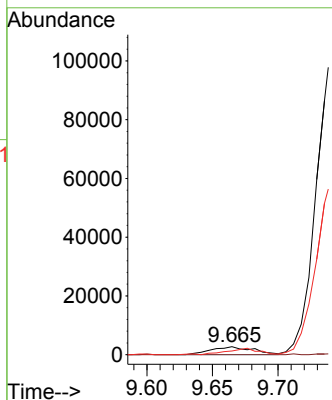


#48
Methyl methacrylate
Concen: 1.222 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

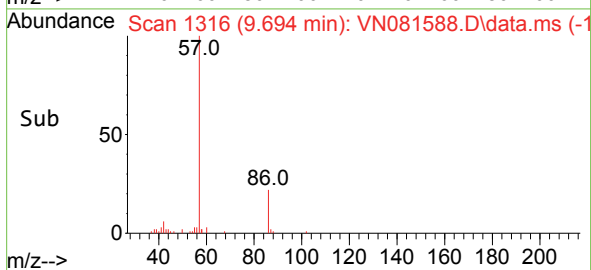
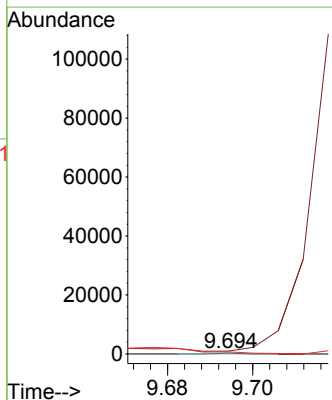
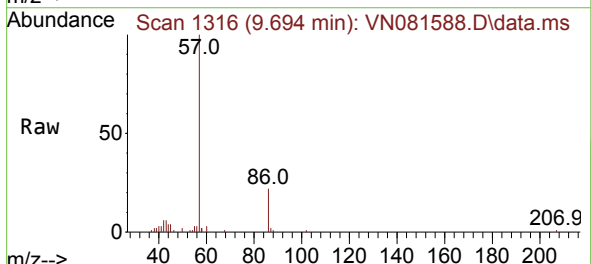


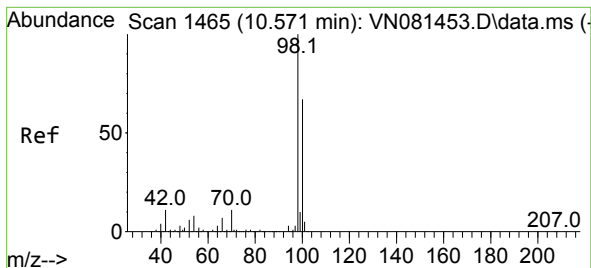
Tgt Ion: 41 Resp: 6094
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 61.6 47.6 71.4



#49
1,4-Dioxane
Concen: 0.734 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 5151.1 63.9 95.9#

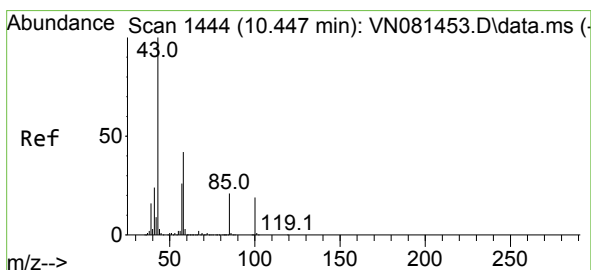
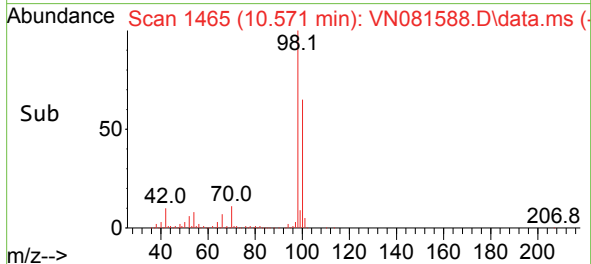
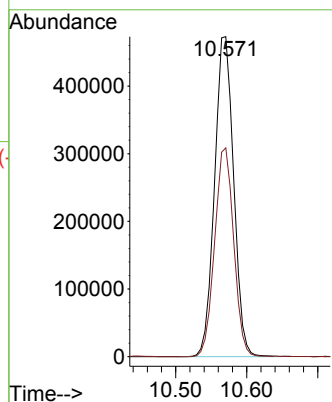
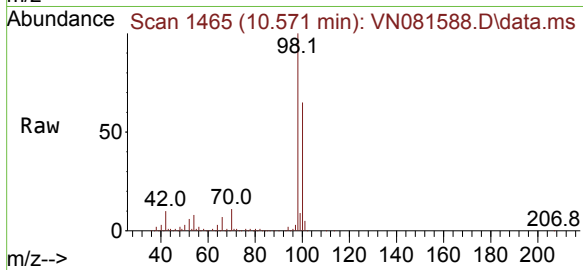




#50
Toluene-d8
Concen: 53.939 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

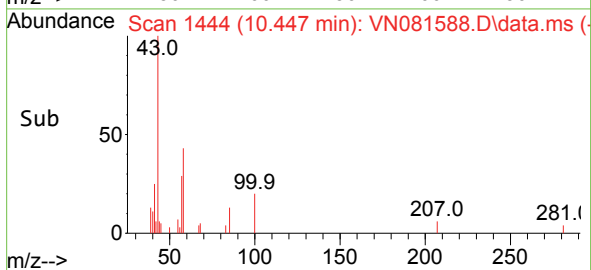
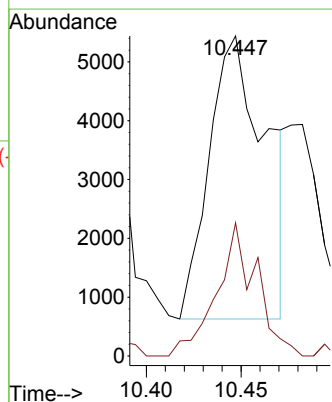
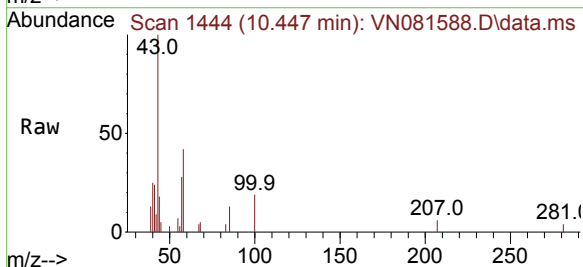
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

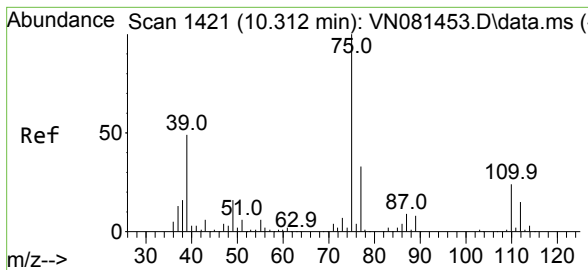
Tgt Ion: 98 Resp: 882331
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.519 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 43 Resp: 10019
Ion Ratio Lower Upper
43 100
58 32.9 29.4 44.0

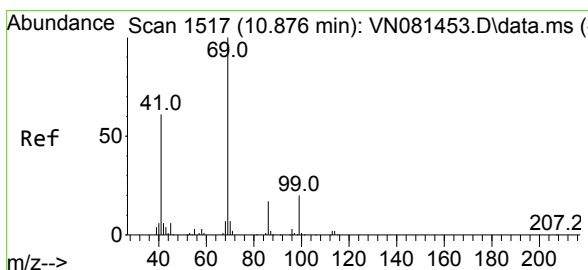
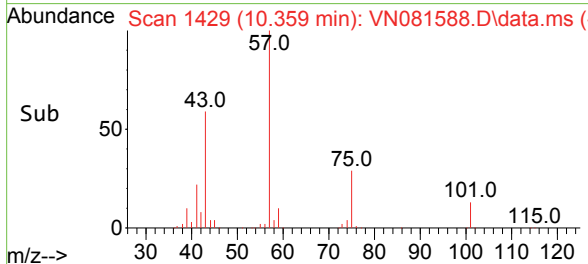
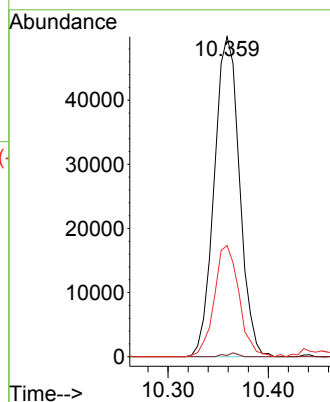
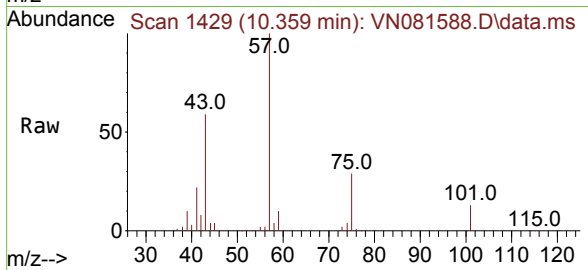




#54
cis-1,3-Dichloropropene
Concen: 9.407 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

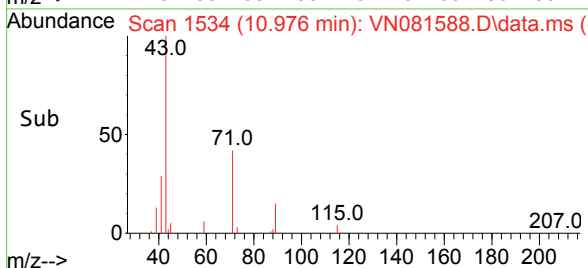
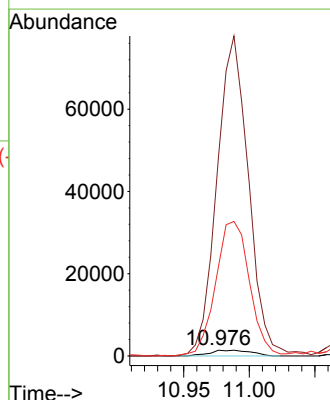
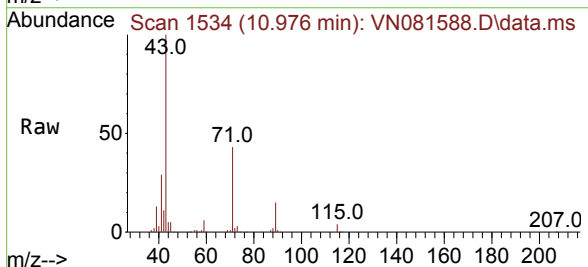
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#04

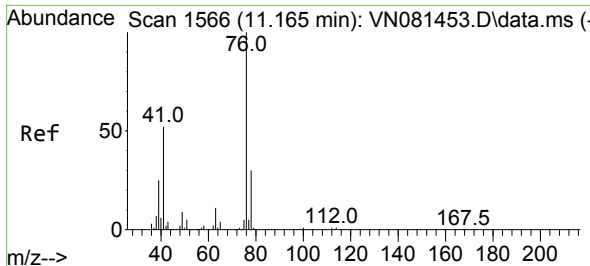
Tgt Ion: 75 Resp: 87251
Ion Ratio Lower Upper
75 100
77 0.4 23.3 34.9#
39 34.8 44.6 66.8#



#56
Ethyl methacrylate
Concen: 0.962 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.100 min
Lab File: VN081588.D
Acq: 27 Mar 2024 16:21

Tgt Ion: 69 Resp: 3023
Ion Ratio Lower Upper
69 100
41 4314.5 61.0 91.6#
39 1946.6 31.8 47.6#





#57

1,3-Dichloropropane

Concen: 1.447 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

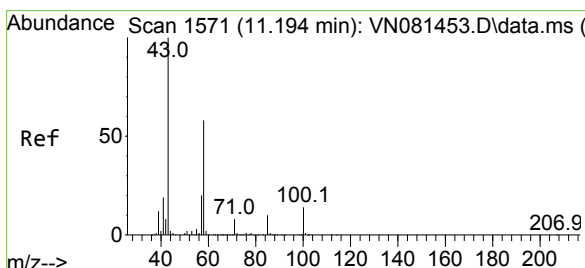
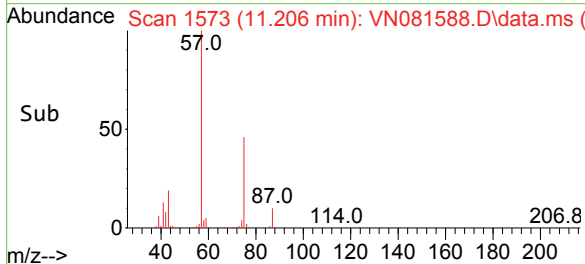
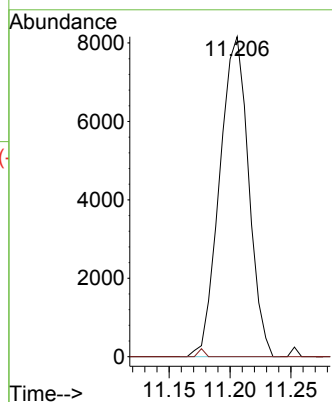
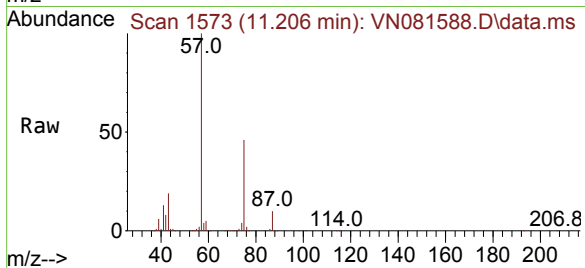
PB159779ZHE#04

Tgt Ion: 76 Resp: 13506

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 27.653 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN081588.D

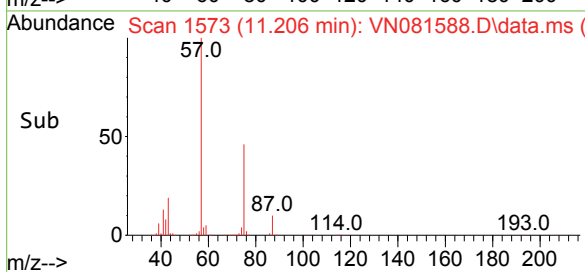
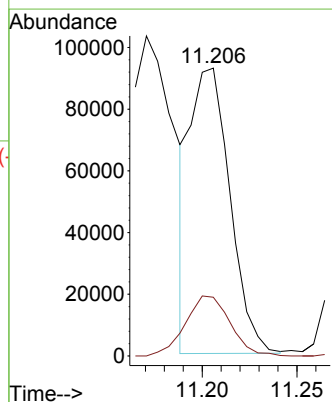
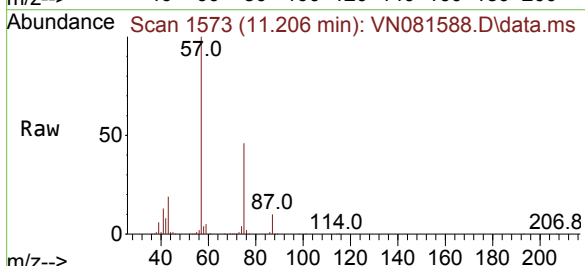
Acq: 27 Mar 2024 16:21

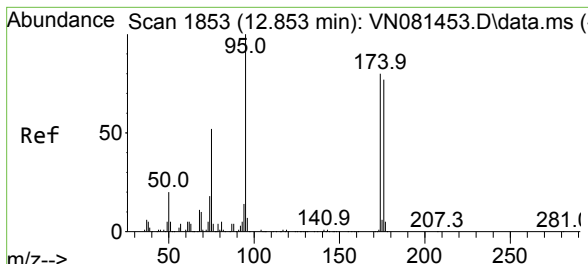
Tgt Ion: 43 Resp: 134849

Ion Ratio Lower Upper

43 100

58 23.8 25.9 77.8#



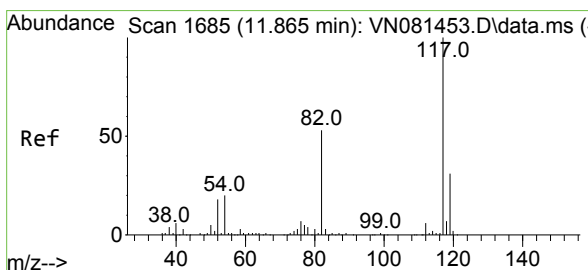
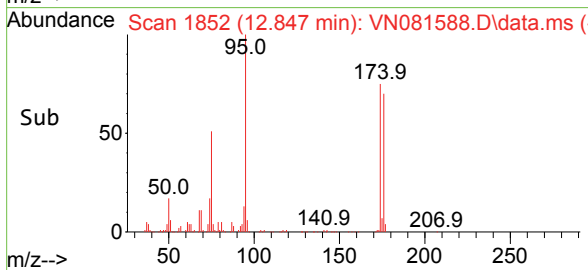
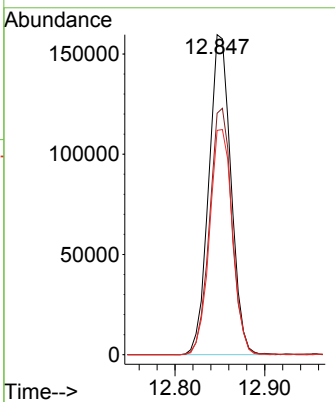
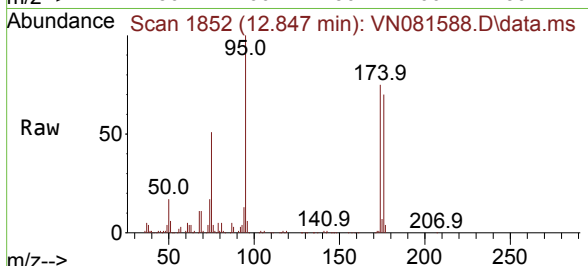


#62
 4-Bromofluorobenzene
 Concen: 47.496 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: VN081588.D
 Acq: 27 Mar 2024 16:21

Instrument : MSVOA_N
 ClientSampleId : PB159779ZHE#04

Tgt Ion: 95 Resp: 273763

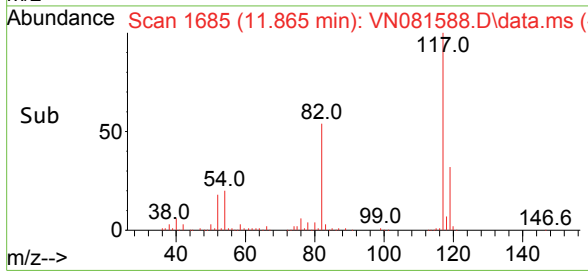
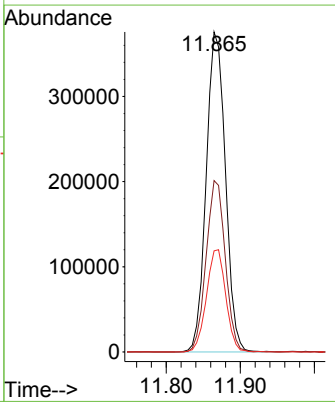
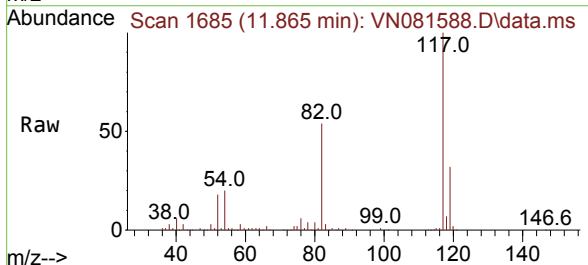
Ion	Ratio	Lower	Upper
95	100		
174	77.6	0.0	120.4
176	72.8	0.0	121.0

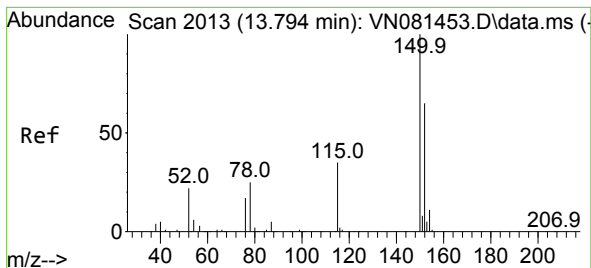


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081588.D
 Acq: 27 Mar 2024 16:21

Tgt Ion: 117 Resp: 676552

Ion	Ratio	Lower	Upper
117	100		
82	53.6	52.7	79.1
119	31.6	25.3	37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#04

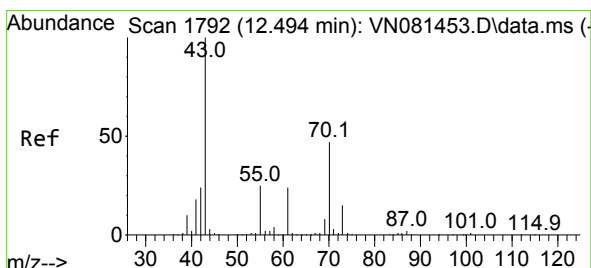
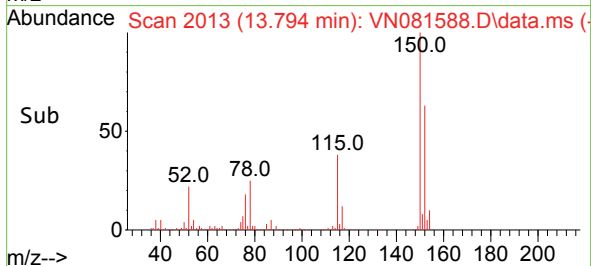
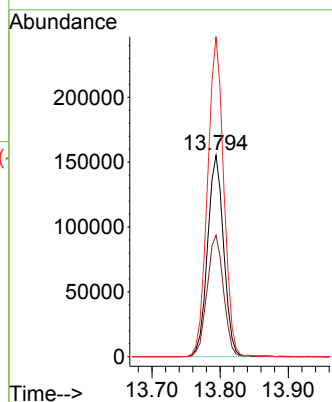
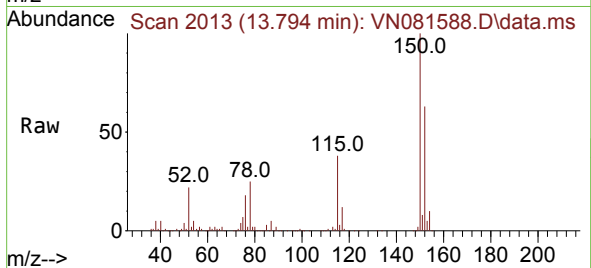
Tgt Ion:152 Resp: 254954

Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 159.8 0.0 339.8



#74

N-ethyl acetate

Concen: 0.370 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN081588.D

Acq: 27 Mar 2024 16:21

Tgt Ion: 43 Resp: 2909

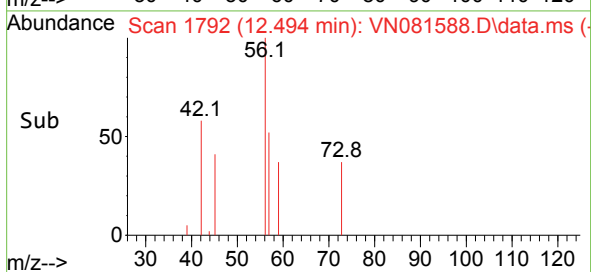
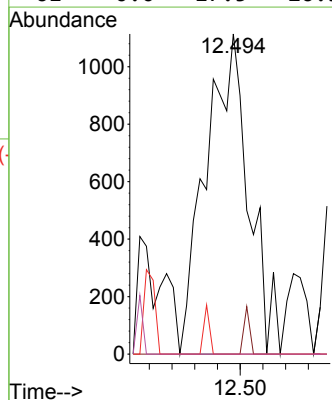
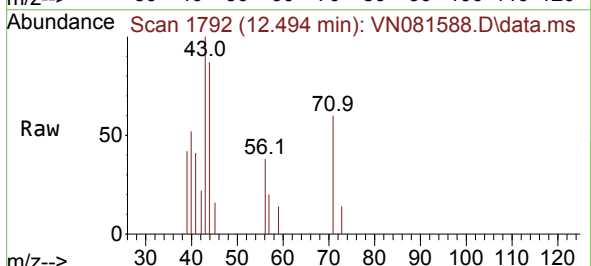
Ion Ratio Lower Upper

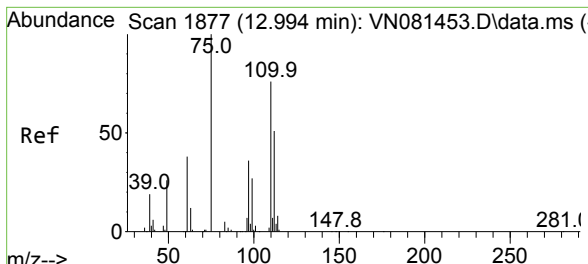
43 100

70 2.0 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#

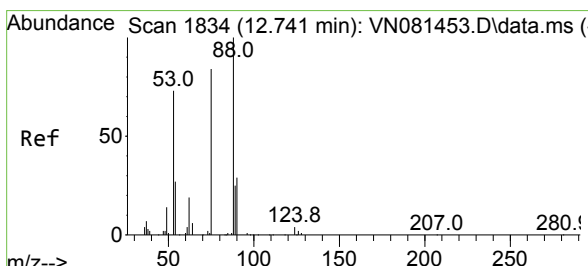
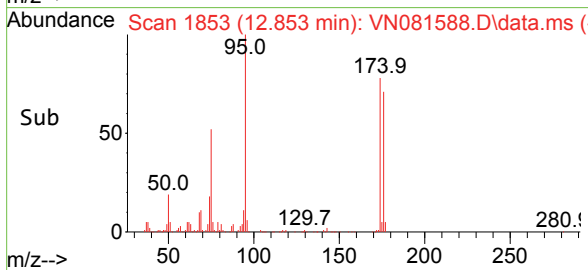
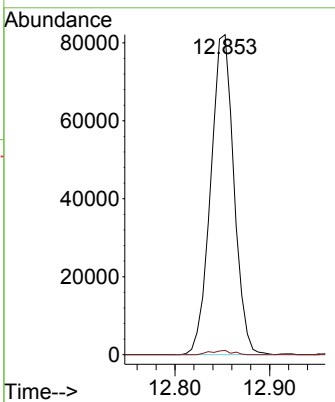
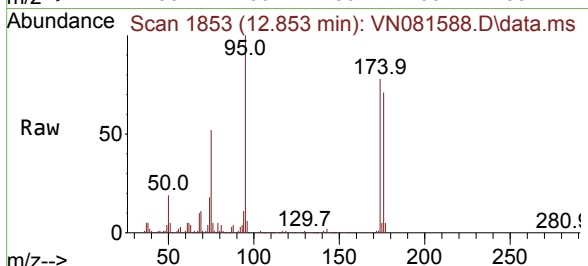




#76
 1,2,3-Trichloropropane
 Concen: 22.915 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN081588.D
 Acq: 27 Mar 2024 16:21

Instrument : MSVOA_N
 ClientSampleId : PB159779ZHE#04

Tgt Ion: 75 Resp: 139749
 Ion Ratio Lower Upper
 75 100
 77 1.2 91.0 272.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.923 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN081588.D
 Acq: 27 Mar 2024 16:21

Tgt Ion: 75 Resp: 139749
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.4 107.2#
 89 0.1 33.4 50.0#

