

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032224\
 Data File : VN081540.D
 Acq On : 22 Mar 2024 12:04
 Operator : JC\MD
 Sample : P1798-03DL 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-3DL

Quant Time: Mar 23 00:11:58 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)

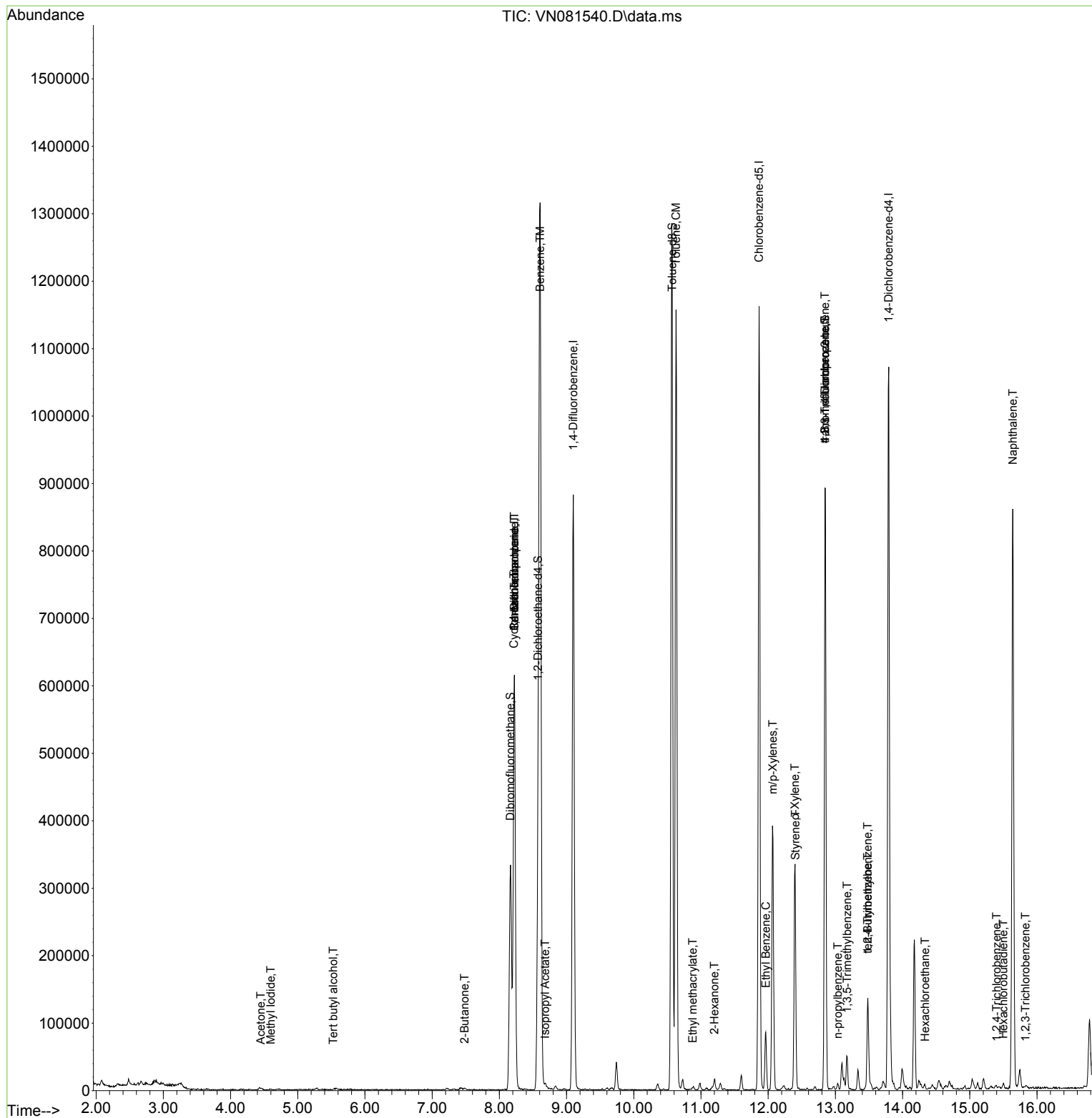
Internal Standards						
1) Pentafluorobenzene	8.224	168	445543	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	788330	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	682078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	295084	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	283878	49.962	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.920%		
35) Dibromofluoromethane	8.165	113	239927	48.225	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.440%		
50) Toluene-d8	10.571	98	919022	51.100	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.200%		
62) 4-Bromofluorobenzene	12.847	95	298756	47.144	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	94.280%		
Target Compounds						
						Qvalue
10) Methyl Iodide	4.600	142	1272	0.225	ug/l	# 45
11) Tert butyl alcohol	5.530	59	334	0.337	ug/l	# 72
16) Acetone	4.447	43	4194	2.284	ug/l	99
25) 2-Butanone	7.482	43	3031	0.962	ug/l	# 78
31) Cyclohexane	8.218	56	12558	1.358	ug/l	# 4
36) 1,1-Dichloropropene	8.224	75	37053	4.426	ug/l	# 51
38) Carbon Tetrachloride	8.224	117	49700	5.419	ug/l	# 17
40) Benzene	8.606	78	1315387	53.738	ug/l	95
43) Isopropyl Acetate	8.682	43	6786	0.571	ug/l	# 87
52) Toluene	10.629	92	516724	33.213	ug/l	100
56) Ethyl methacrylate	10.876	69	262	0.601	ug/l	# 20
59) 2-Hexanone	11.200	43	2039	0.380	ug/l	83
67) Ethyl Benzene	11.965	91	60067	2.145	ug/l	98
68) m/p-Xylenes	12.070	106	125488	11.951	ug/l	92
69) o-Xylene	12.400	106	96028	9.316	ug/l	90
70) Styrene	12.406	104	14216	0.855	ug/l	# 1
76) 1,2,3-Trichloropropane	12.847	75	159890	22.652	ug/l	# 1
78) n-propylbenzene	13.035	91	8080	0.272	ug/l	94
80) 1,3,5-Trimethylbenzene	13.176	105	27184	1.308	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	159890	61.213	ug/l	# 14
83) tert-Butylbenzene	13.482	119	10928	0.610	ug/l	# 83
84) 1,2,4-Trimethylbenzene	13.482	105	80489	3.855	ug/l	100
90) Hexachloroethane	14.335	117	938	0.237	ug/l	# 21
93) 1,2,4-Trichlorobenzene	15.400	180	2016	0.317	ug/l	93
94) Hexachlorobutadiene	15.500	225	820	0.294	ug/l	79
95) Naphthalene	15.641	128	814288	39.554	ug/l	100
96) 1,2,3-Trichlorobenzene	15.829	180	2152	0.337	ug/l	# 26

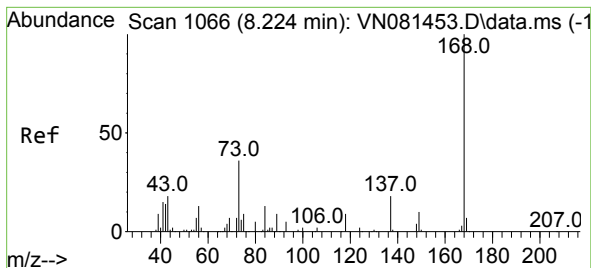
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Mar 23 00:11:58 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# 1

Delta R.T. -0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

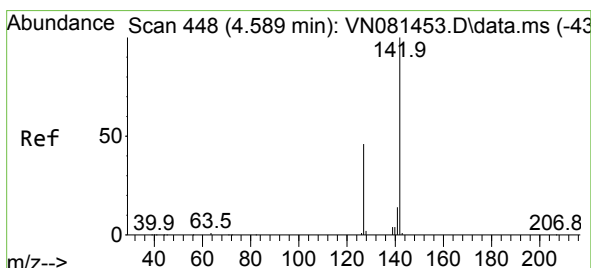
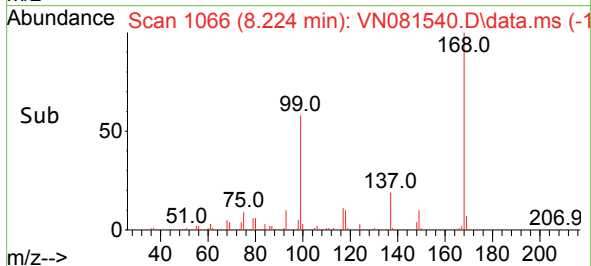
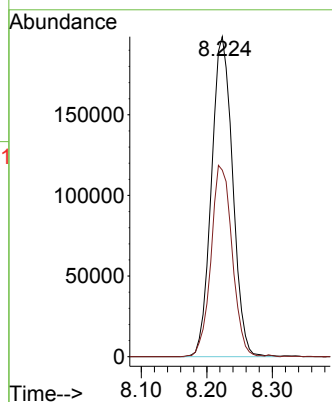
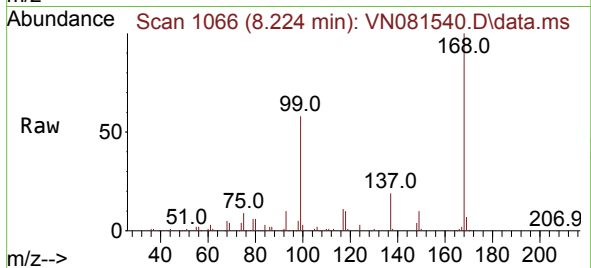
S-3DL

Tgt Ion:168 Resp: 445543

Ion Ratio Lower Upper

168 100

99 58.3 59.9 89.9#



#10

Methyl Iodide

Concen: 0.225 ug/l

RT: 4.600 min Scan# 450

Delta R.T. 0.012 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

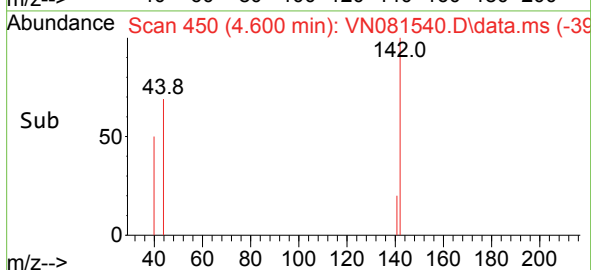
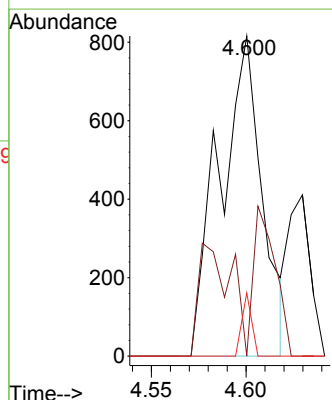
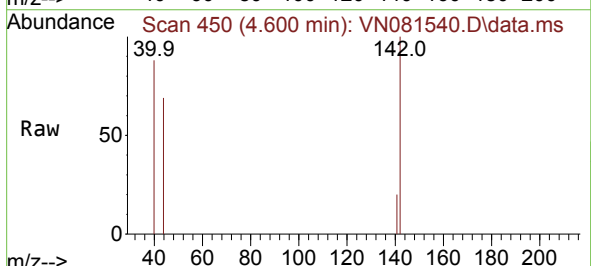
Tgt Ion:142 Resp: 1272

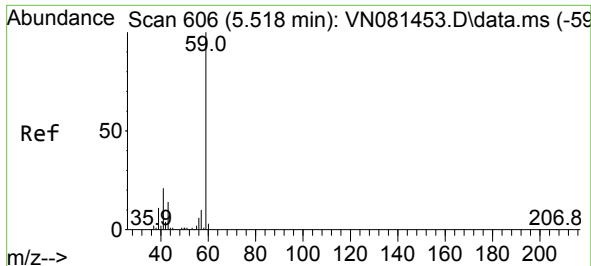
Ion Ratio Lower Upper

142 100

127 0.0 37.0 55.4#

141 19.7 12.5 18.7#

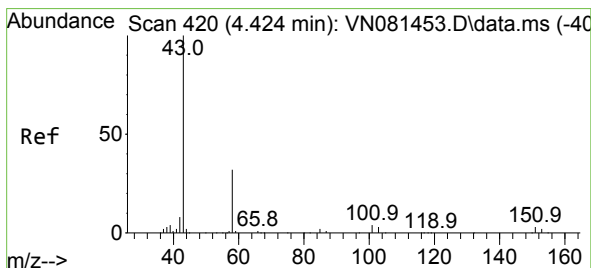
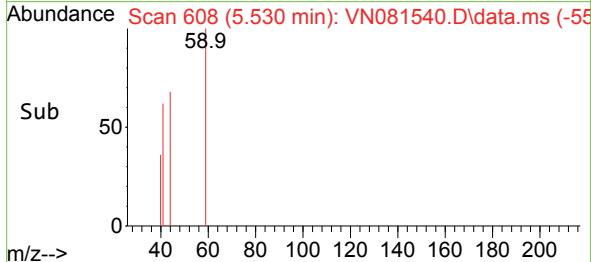
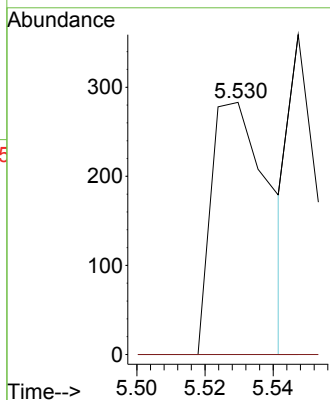
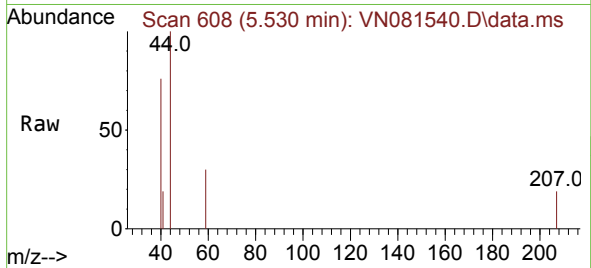




#11
Tert butyl alcohol
Concen: 0.337 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

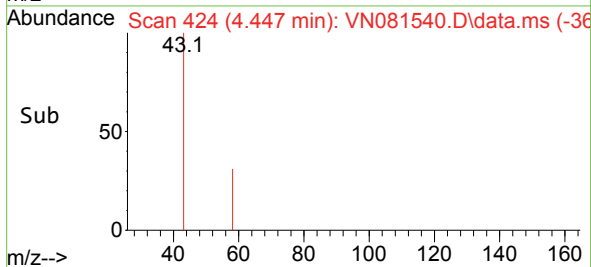
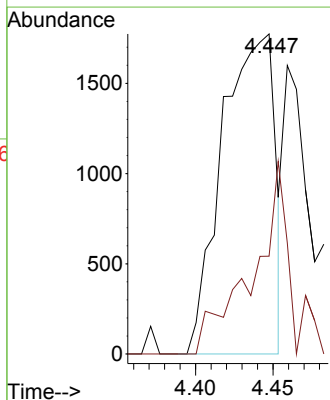
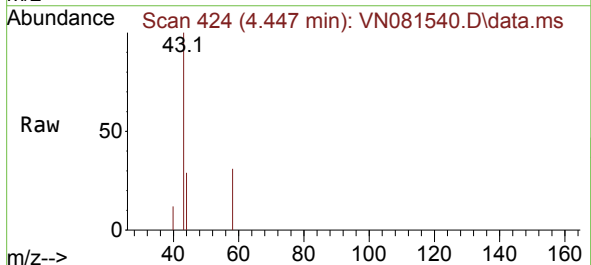
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

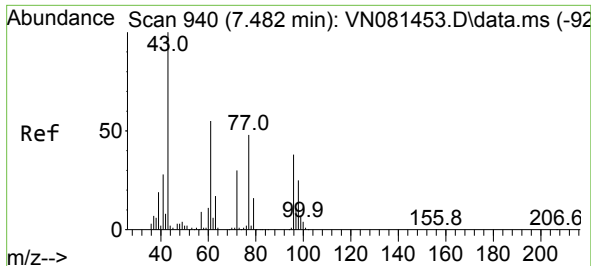
Tgt Ion: 59 Resp: 334
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 2.284 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.024 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 43 Resp: 4194
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2

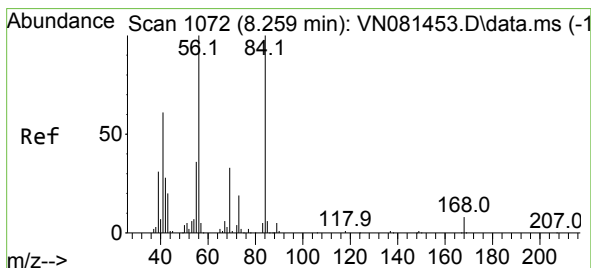
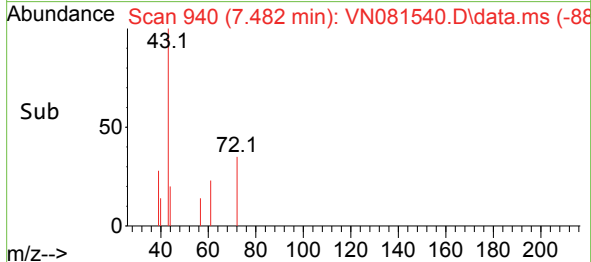
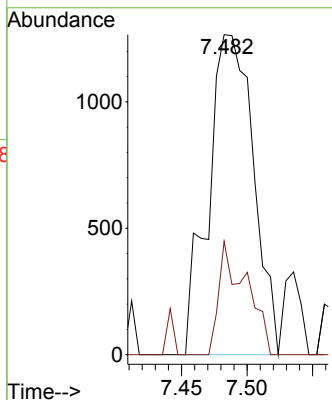
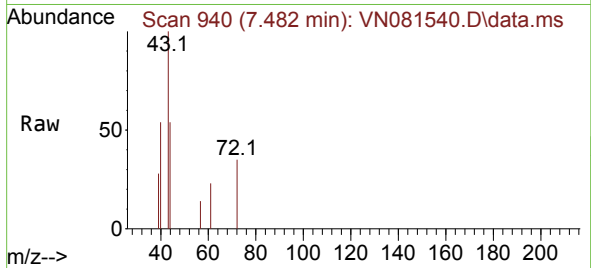




#25
2-Butanone
Concen: 0.962 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

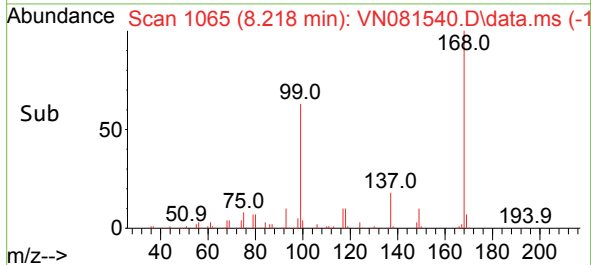
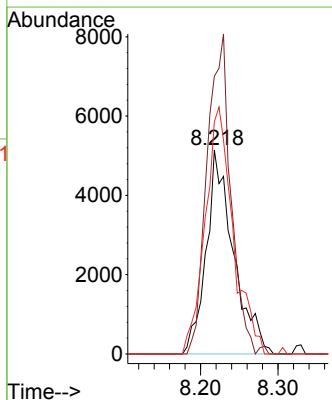
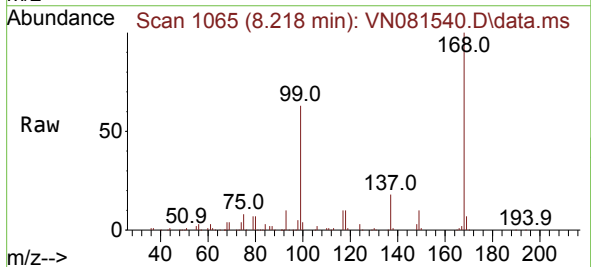
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

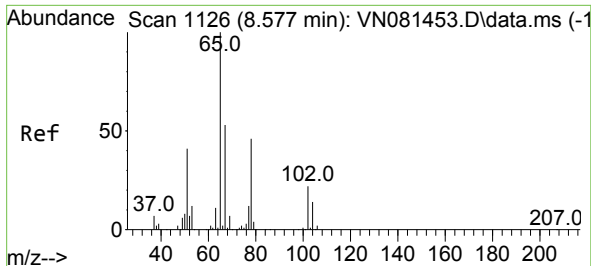
Tgt Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
72 35.4 19.5 29.3#



#31
Cyclohexane
Concen: 1.358 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 56 Resp: 12558
Ion Ratio Lower Upper
56 100
69 136.3 20.1 30.1#
84 113.9 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 49.962 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

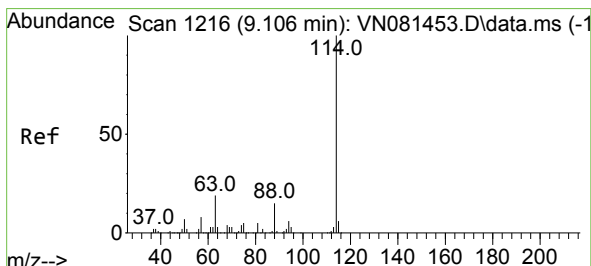
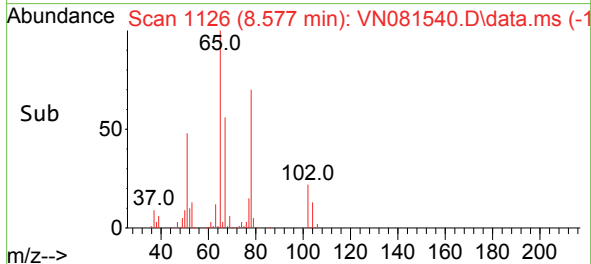
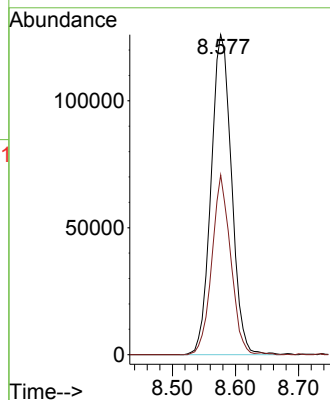
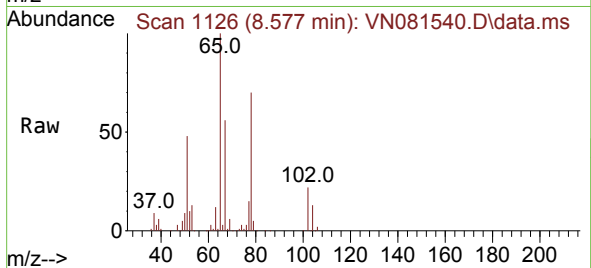
S-3DL

Tgt Ion: 65 Resp: 283878

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

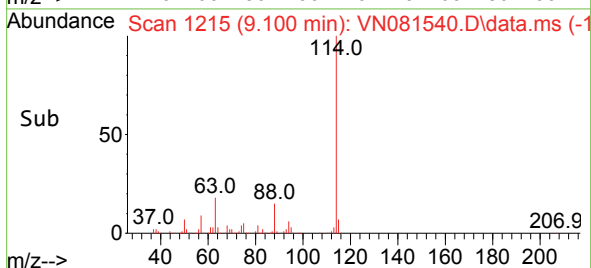
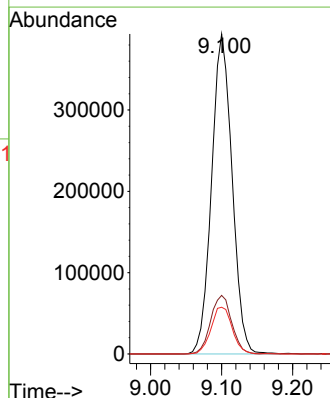
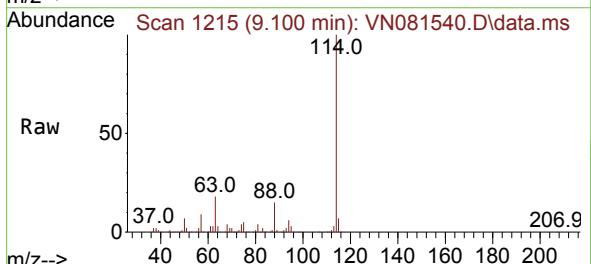
Tgt Ion: 114 Resp: 788330

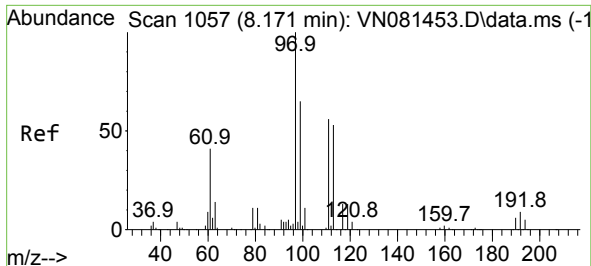
Ion Ratio Lower Upper

114 100

63 18.3 0.0 48.0

88 14.6 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.225 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

S-3DL

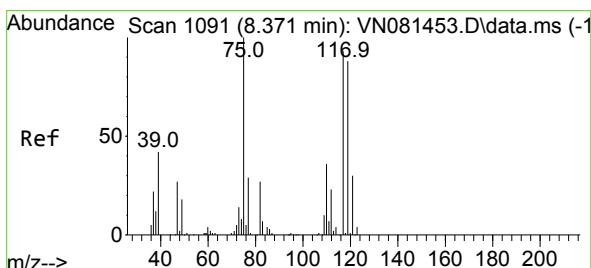
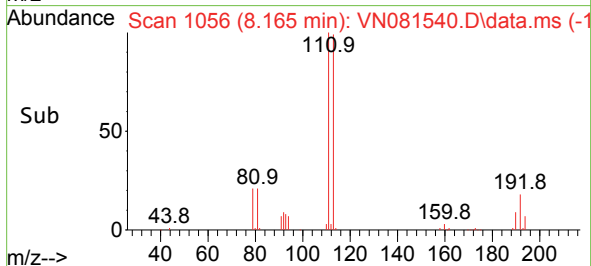
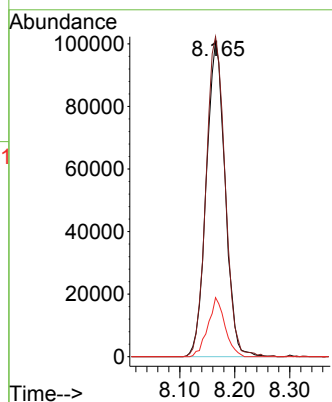
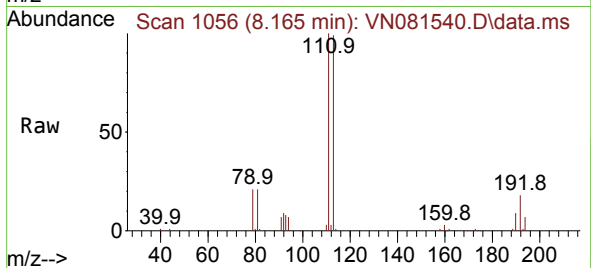
Tgt Ion:113 Resp: 239927

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

192 16.9 12.5 18.7



#36

1,1-Dichloropropene

Concen: 4.426 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

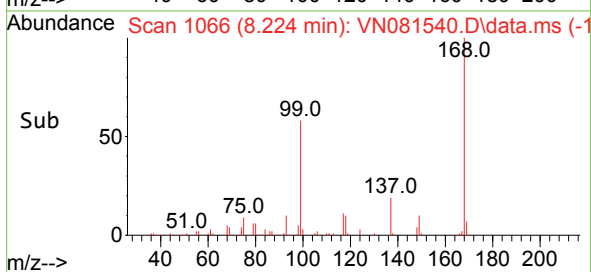
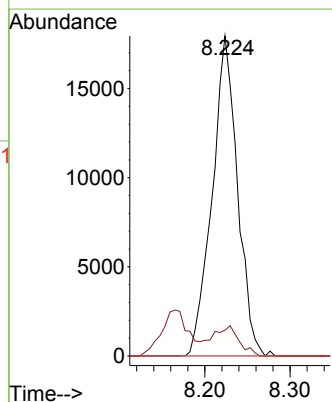
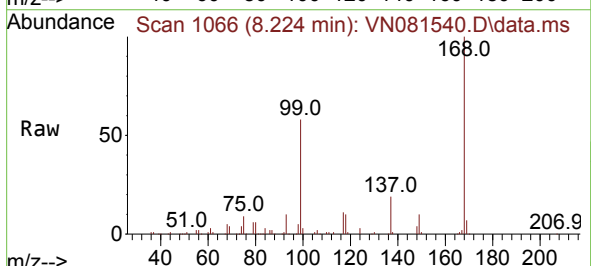
Tgt Ion: 75 Resp: 37053

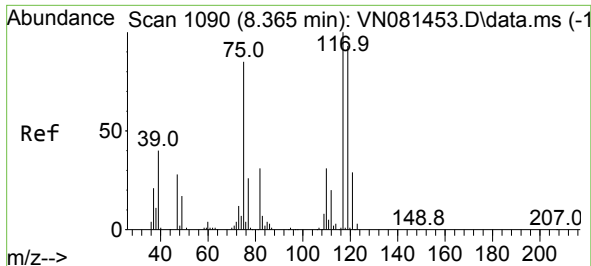
Ion Ratio Lower Upper

75 100

110 10.1 16.0 48.0#

77 0.0 25.8 38.6#

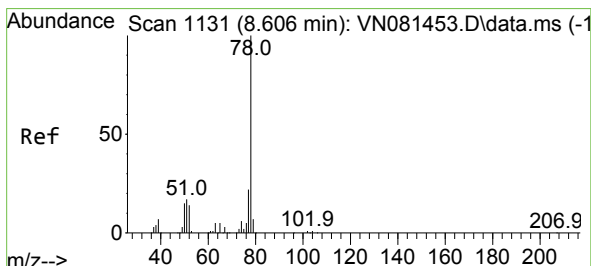
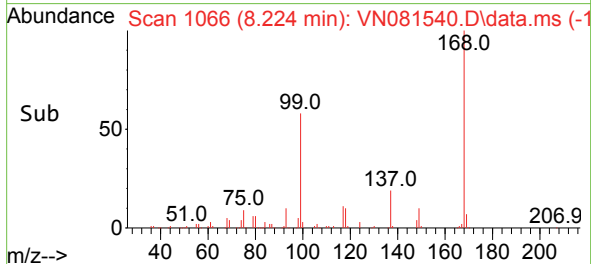
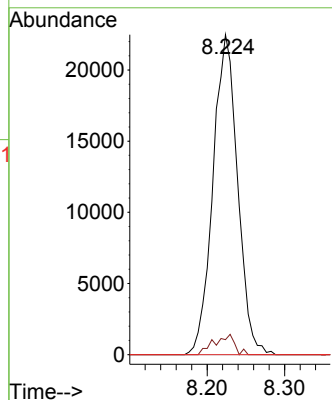
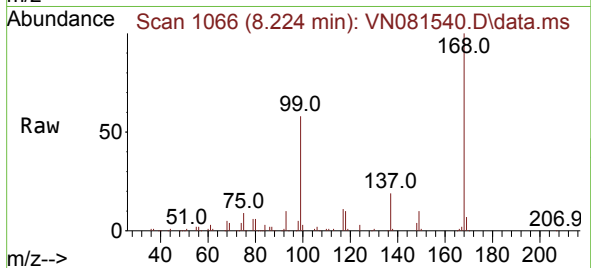




#38
Carbon Tetrachloride
Concen: 5.419 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

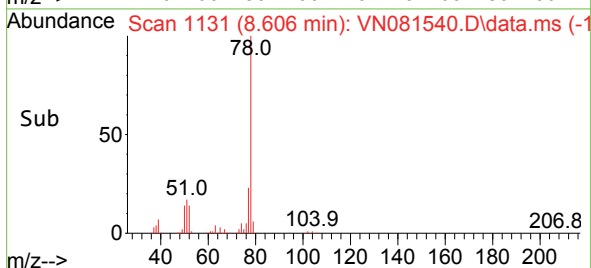
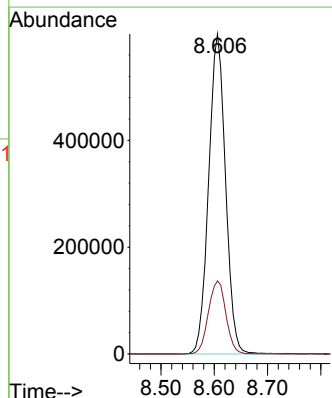
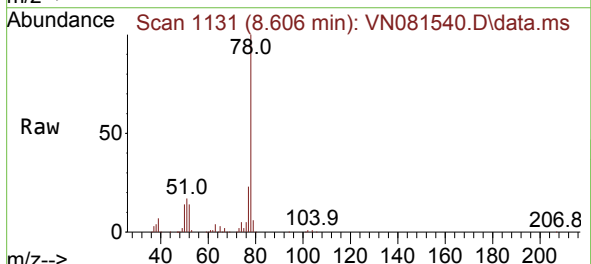
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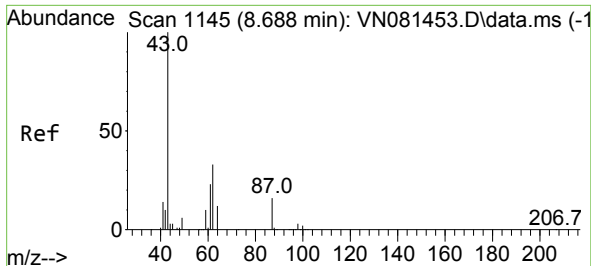
Tgt Ion:117 Resp: 49700
Ion Ratio Lower Upper
117 100
119 4.7 73.4 110.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 53.738 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 78 Resp: 1315387
Ion Ratio Lower Upper
78 100
77 22.9 20.4 30.6

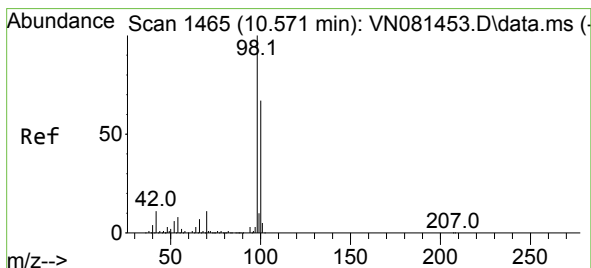
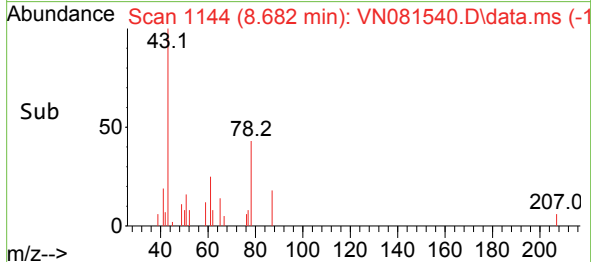
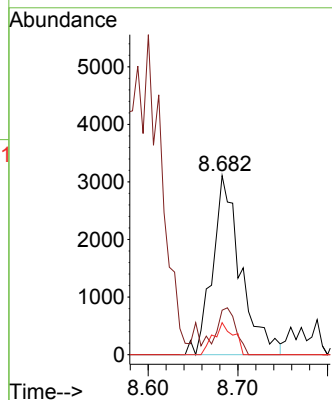
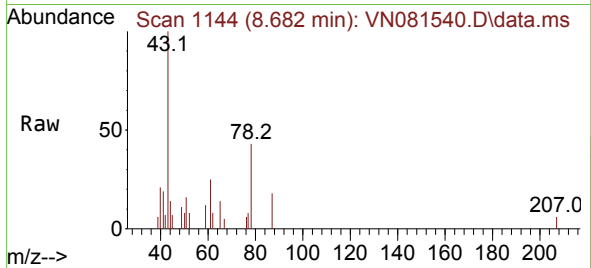




#43
Isopropyl Acetate
Concen: 0.571 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

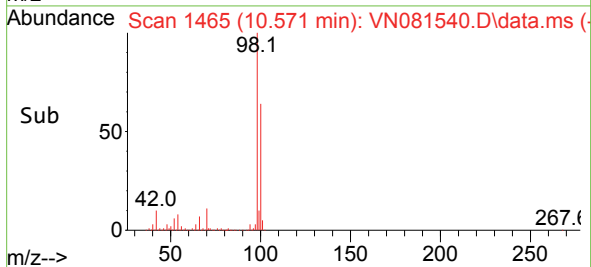
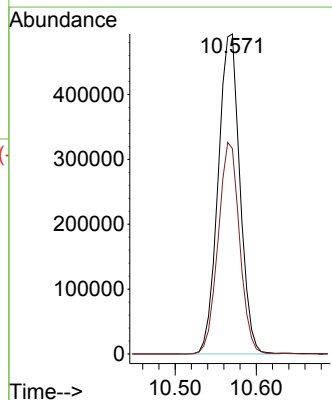
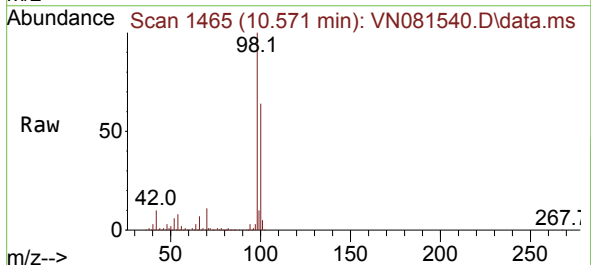
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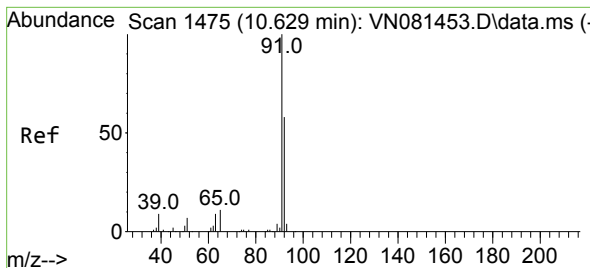
Tgt Ion: 43 Resp: 6786
Ion Ratio Lower Upper
43 100
61 16.5 19.9 29.9#
87 12.8 9.0 13.6



#50
Toluene-d8
Concen: 51.100 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 98 Resp: 919022
Ion Ratio Lower Upper
98 100
100 65.3 51.4 77.0





#52

Toluene

Concen: 33.213 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

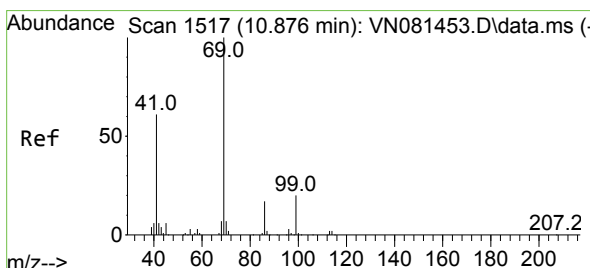
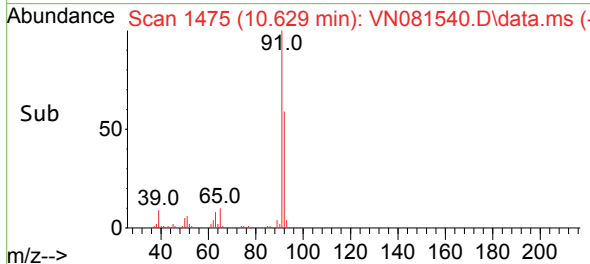
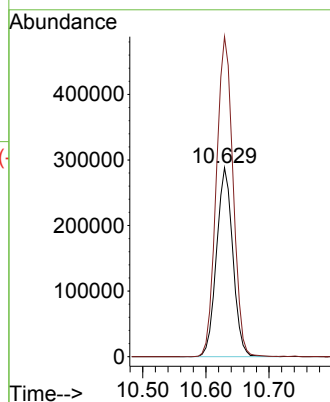
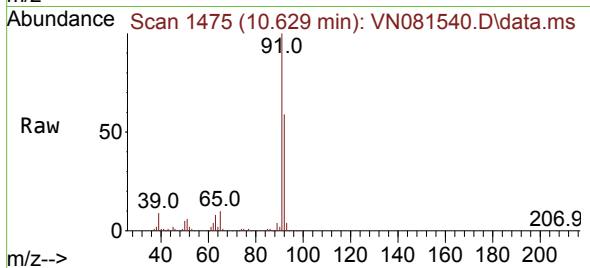
S-3DL

Tgt Ion: 92 Resp: 516724

Ion Ratio Lower Upper

92 100

91 173.6 139.4 209.0



#56

Ethyl methacrylate

Concen: 0.601 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

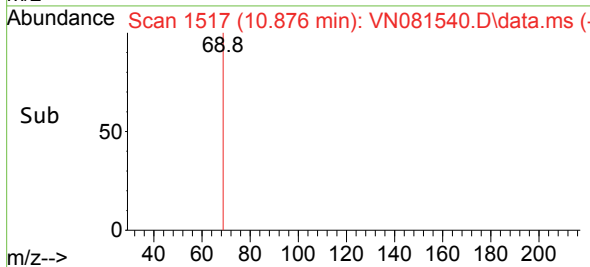
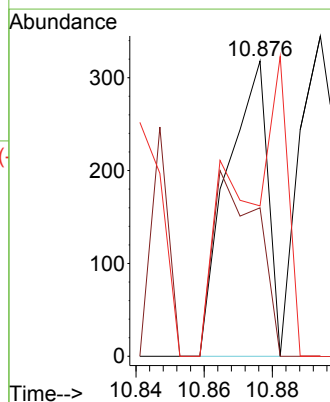
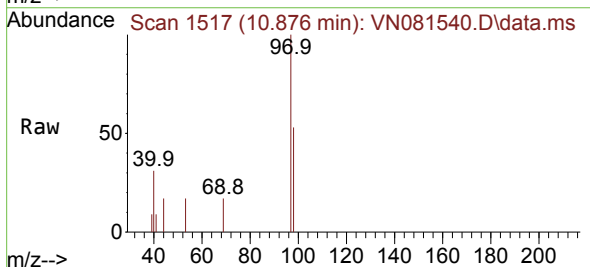
Tgt Ion: 69 Resp: 262

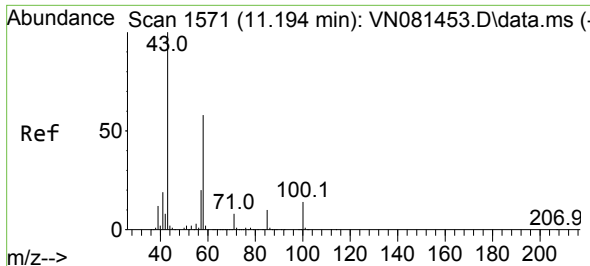
Ion Ratio Lower Upper

69 100

41 0.0 61.0 91.6#

39 0.0 31.8 47.6#

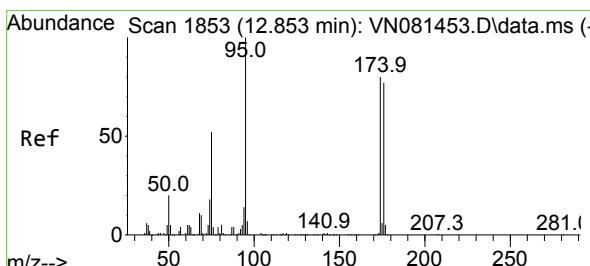
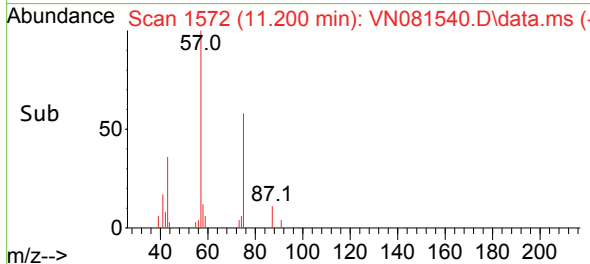
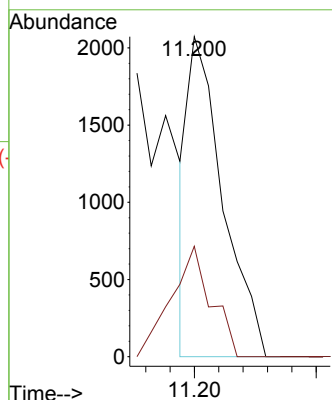
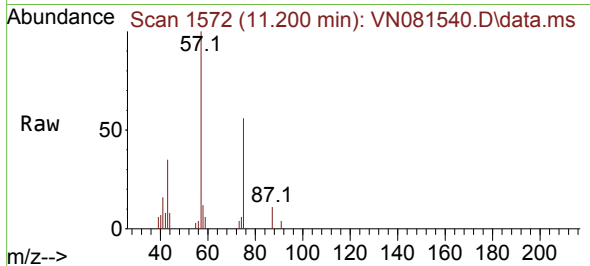




#59
2-Hexanone
Concen: 0.380 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

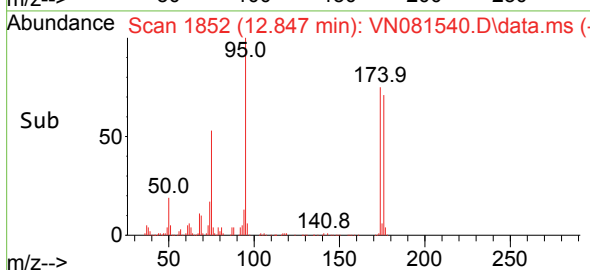
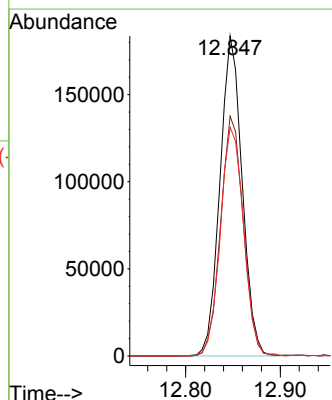
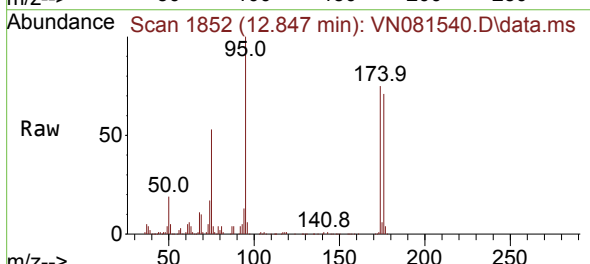
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

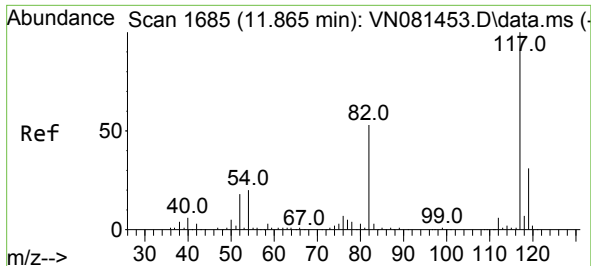
Tgt Ion: 43 Resp: 2039
Ion Ratio Lower Upper
43 100
58 40.2 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 47.144 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 95 Resp: 298756
Ion Ratio Lower Upper
95 100
174 76.6 0.0 120.4
176 74.9 0.0 121.0

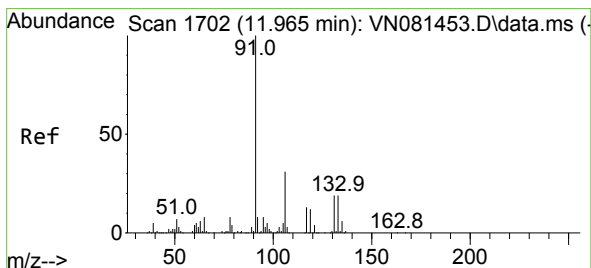
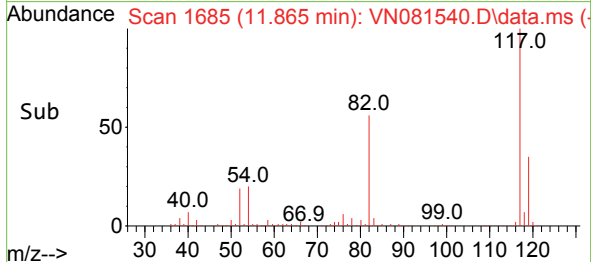
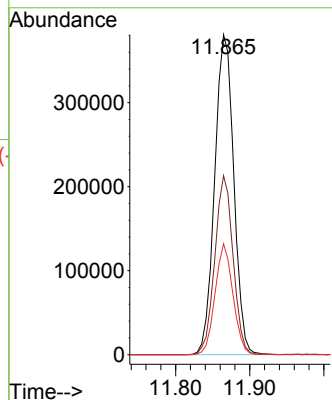
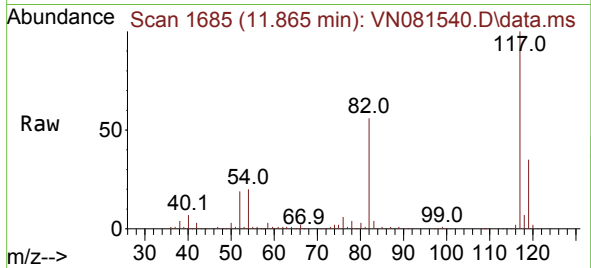




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

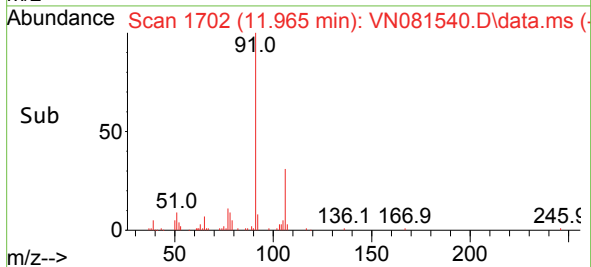
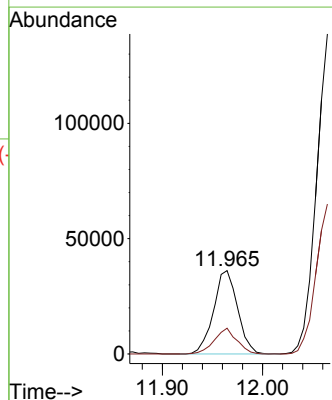
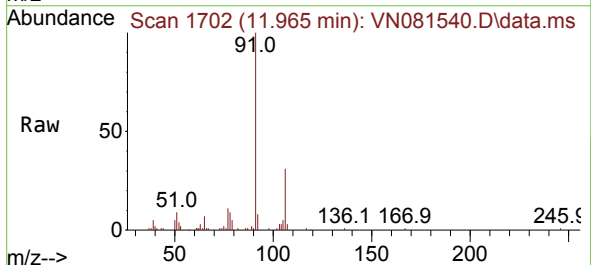
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

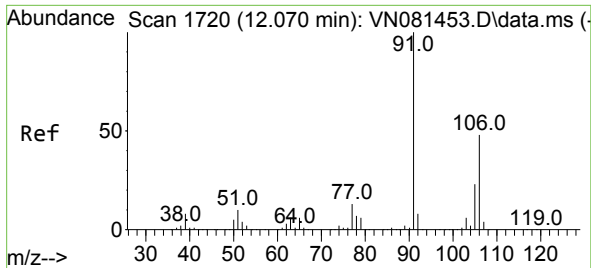
Tgt Ion:117 Resp: 682078
Ion Ratio Lower Upper
117 100
82 56.0 52.7 79.1
119 34.6 25.3 37.9



#67
Ethyl Benzene
Concen: 2.145 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion: 91 Resp: 60067
Ion Ratio Lower Upper
91 100
106 30.8 23.8 35.6

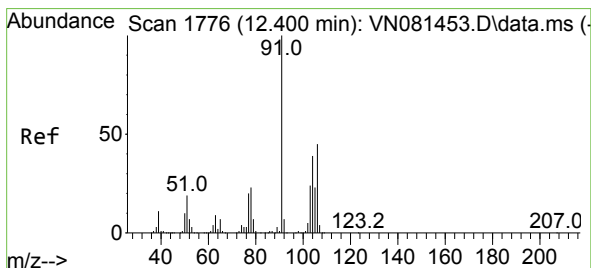
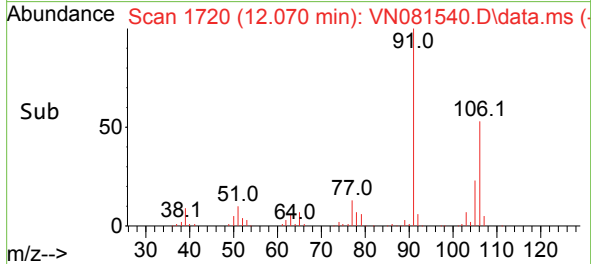
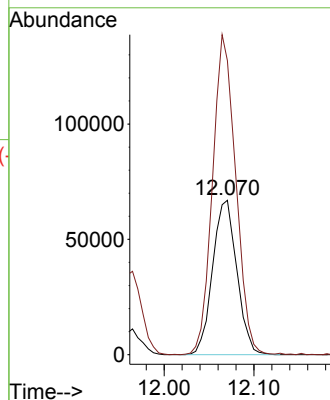
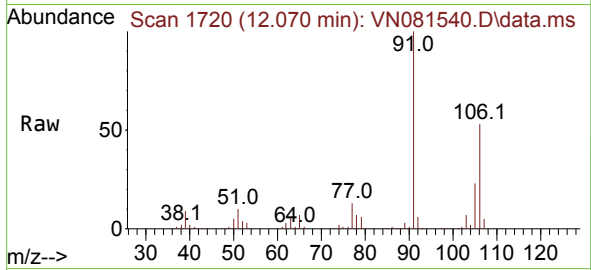




#68
m/p-Xylenes
Concen: 11.951 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

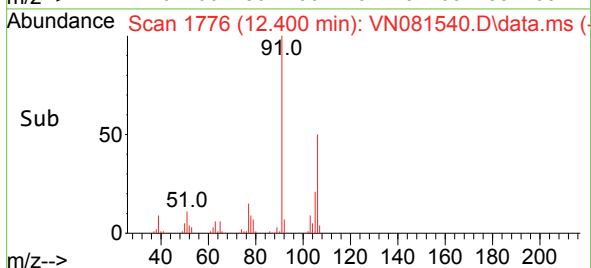
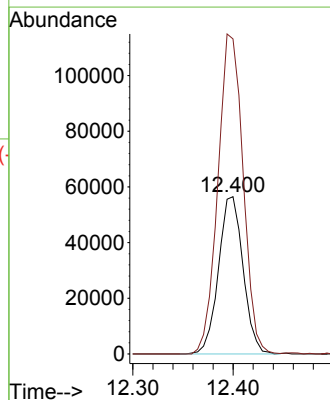
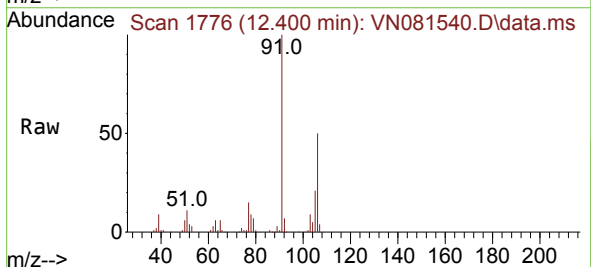
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

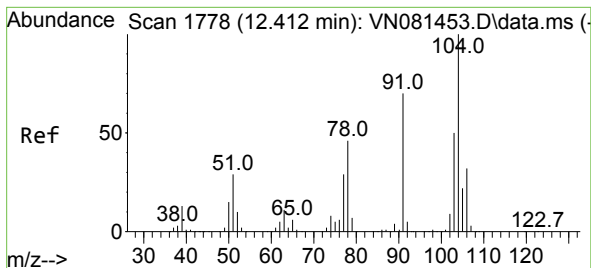
Tgt Ion:106 Resp: 125488
Ion Ratio Lower Upper
106 100
91 198.6 169.0 253.6



#69
o-Xylene
Concen: 9.316 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion:106 Resp: 96028
Ion Ratio Lower Upper
106 100
91 208.4 112.1 336.3





#70

Styrene

Concen: 0.855 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

S-3DL

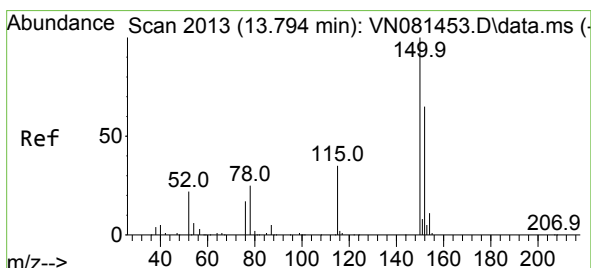
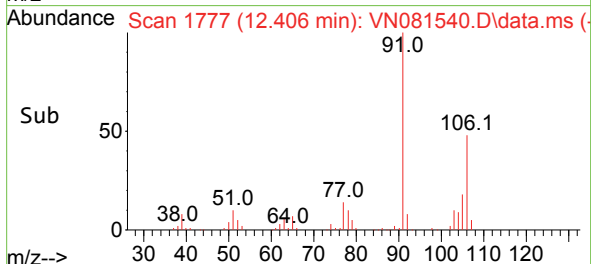
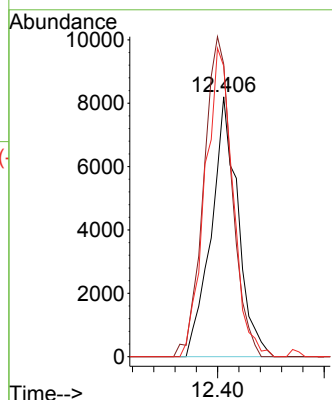
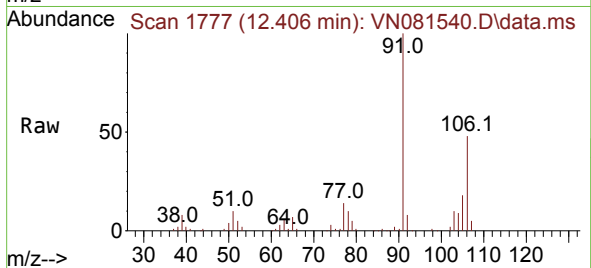
Tgt Ion:104 Resp: 14216

Ion Ratio Lower Upper

104 100

78 131.0 43.8 65.8#

103 124.4 44.2 66.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

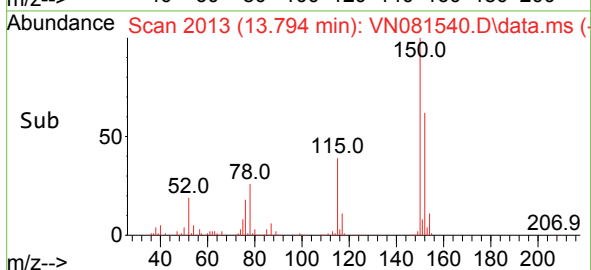
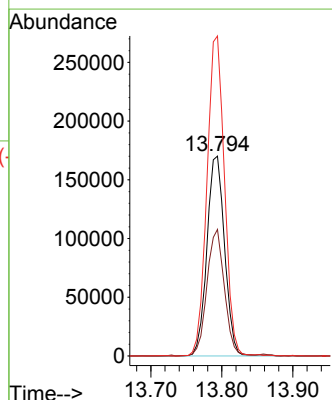
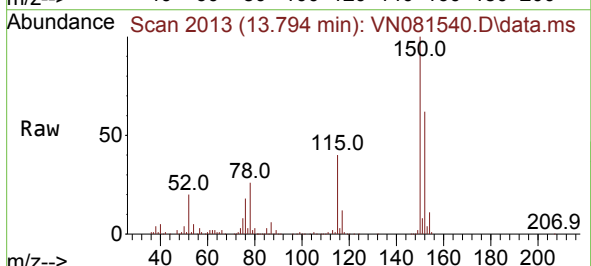
Tgt Ion:152 Resp: 295084

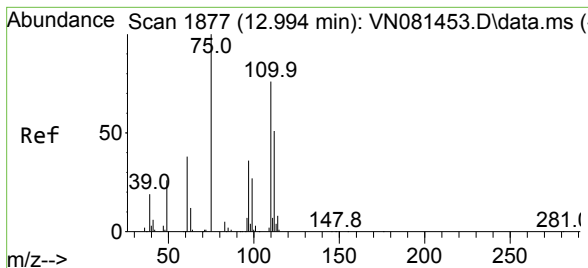
Ion Ratio Lower Upper

152 100

115 61.8 32.3 96.8

150 158.6 0.0 339.8





#76

1,2,3-Trichloropropane

Concen: 22.652 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

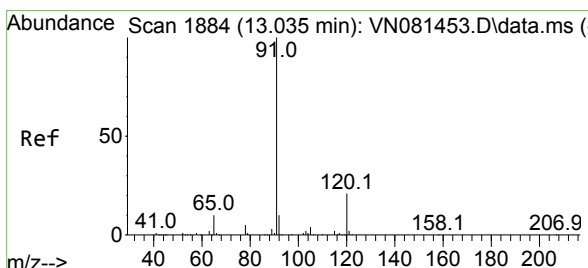
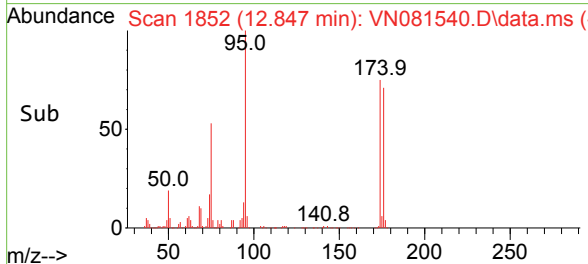
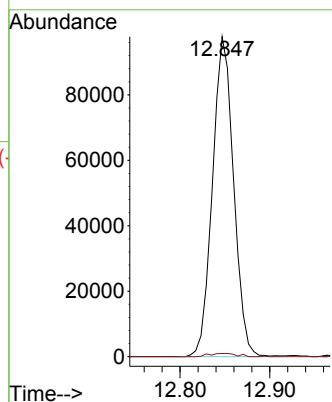
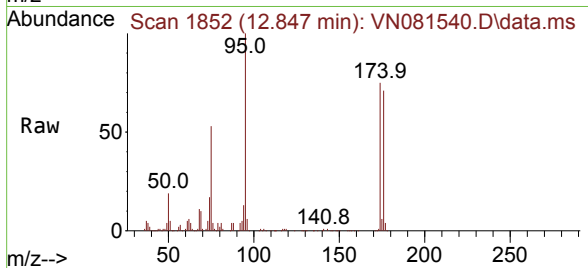
S-3DL

Tgt Ion: 75 Resp: 159890

Ion Ratio Lower Upper

75 100

77 1.3 91.0 272.8#



#78

n-propylbenzene

Concen: 0.272 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN081540.D

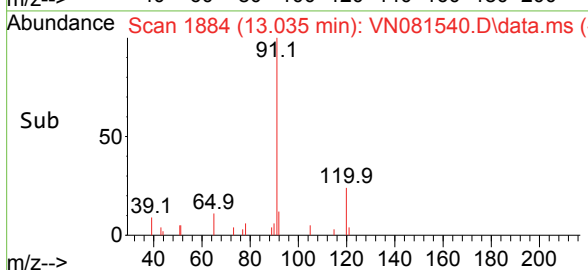
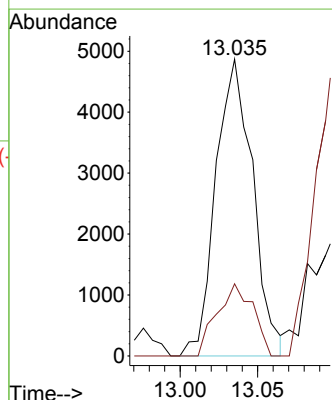
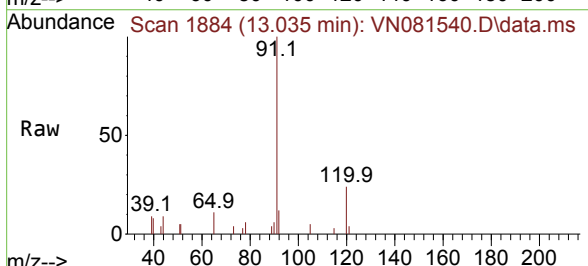
Acq: 22 Mar 2024 12:04

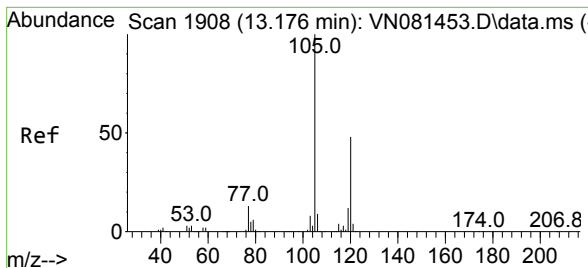
Tgt Ion: 91 Resp: 8080

Ion Ratio Lower Upper

91 100

120 23.6 10.3 30.9





#80

1,3,5-Trimethylbenzene

Concen: 1.308 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

Instrument :

MSVOA_N

ClientSampleId :

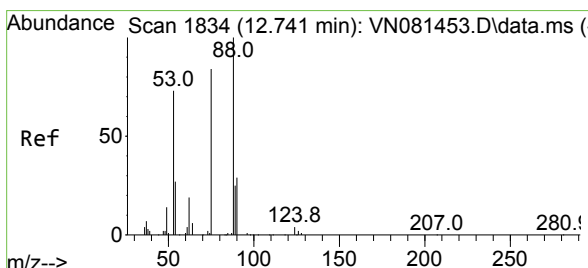
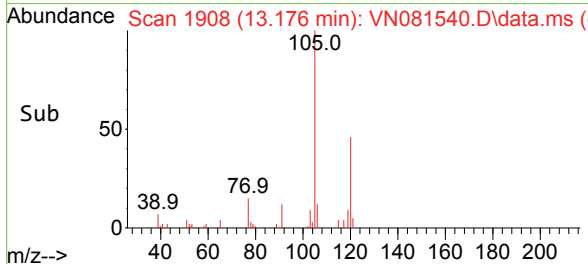
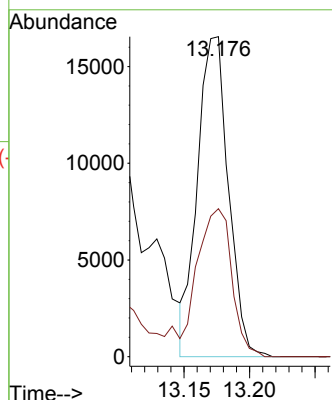
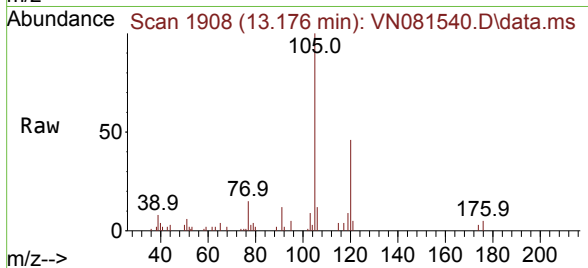
S-3DL

Tgt Ion:105 Resp: 27184

Ion Ratio Lower Upper

105 100

120 51.0 23.0 69.0



#81

trans-1,4-Dichloro-2-butene

Concen: 61.213 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN081540.D

Acq: 22 Mar 2024 12:04

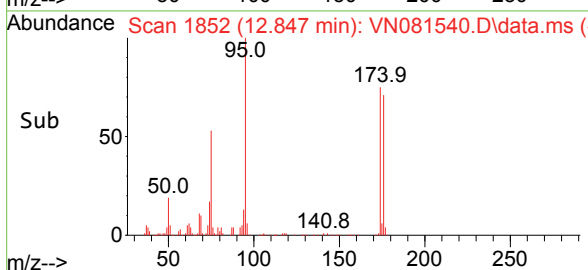
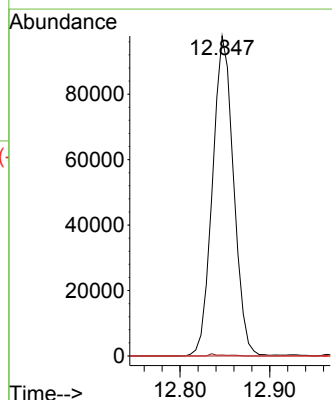
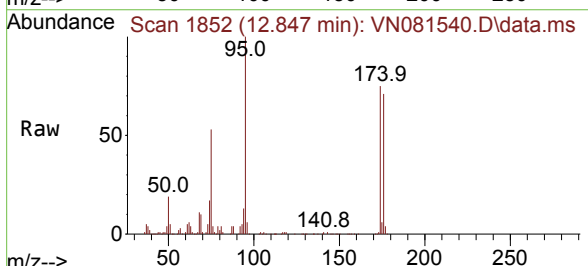
Tgt Ion: 75 Resp: 159890

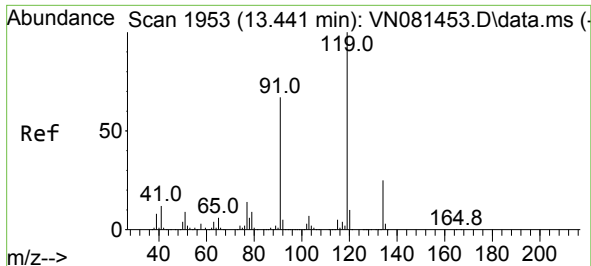
Ion Ratio Lower Upper

75 100

53 0.4 71.4 107.2#

89 0.0 33.4 50.0#

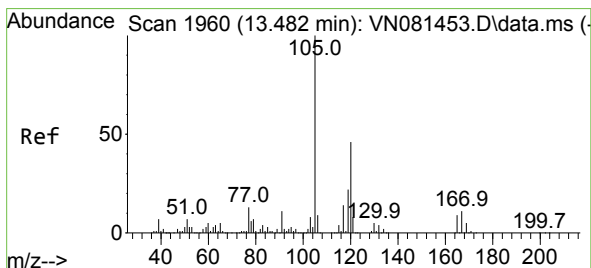
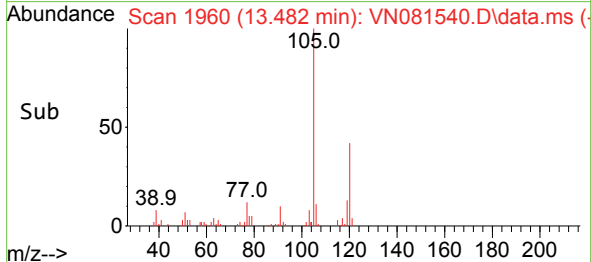
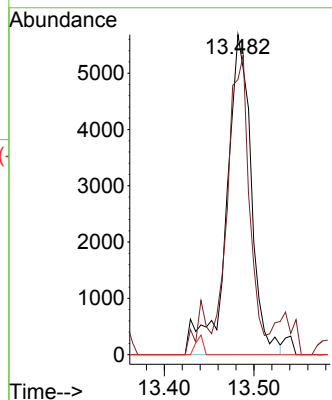
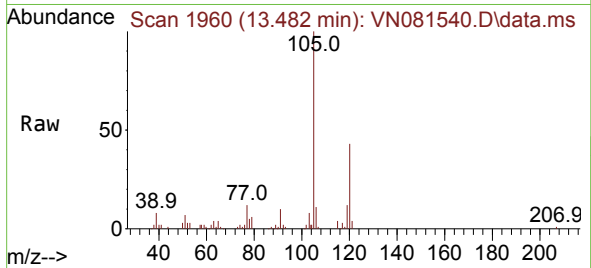




#83
tert-Butylbenzene
Concen: 0.610 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.041 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

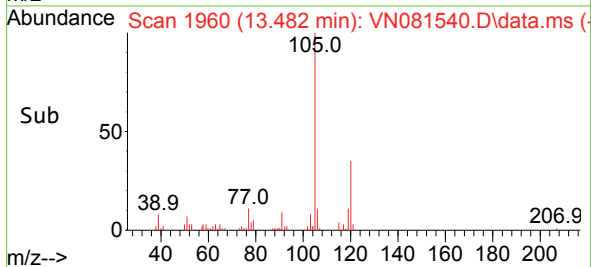
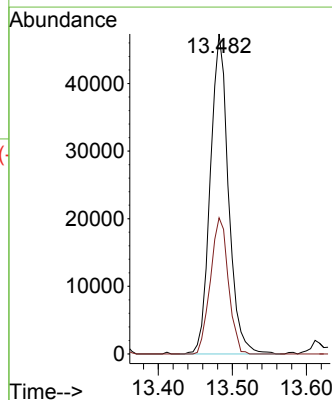
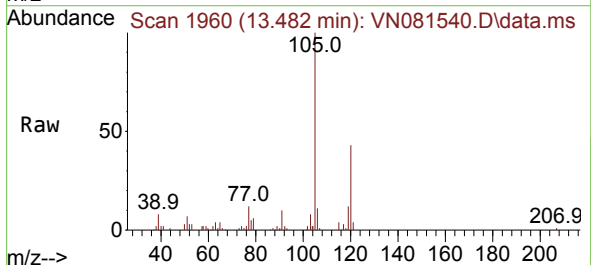
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

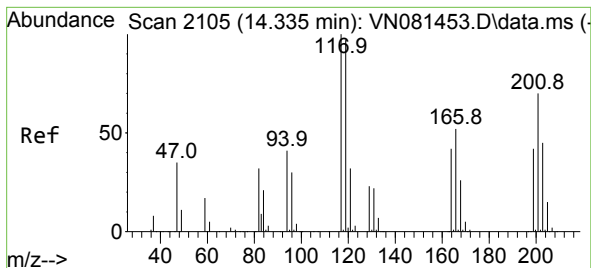
Tgt Ion:119 Resp: 10928
Ion Ratio Lower Upper
119 100
91 79.1 36.8 110.4
134 0.0 12.4 37.4#



#84
1,2,4-Trimethylbenzene
Concen: 3.855 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion:105 Resp: 80489
Ion Ratio Lower Upper
105 100
120 41.9 20.9 62.7

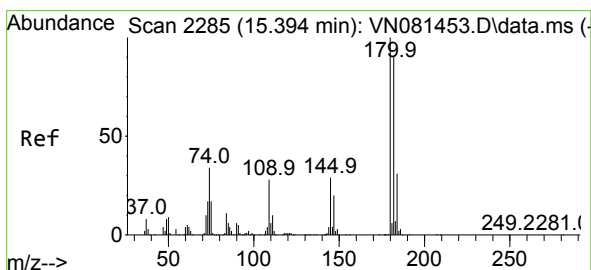
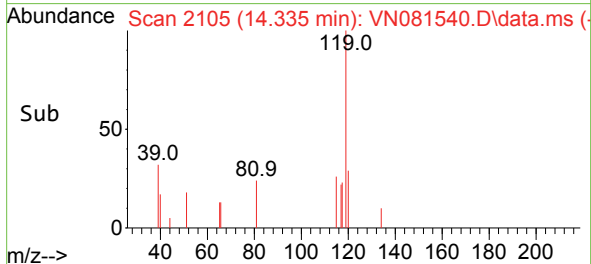
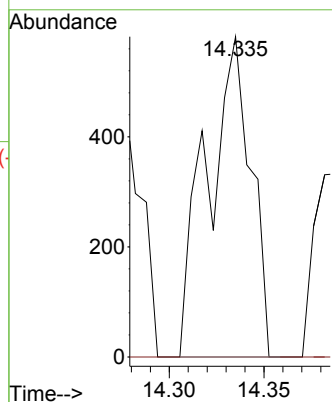
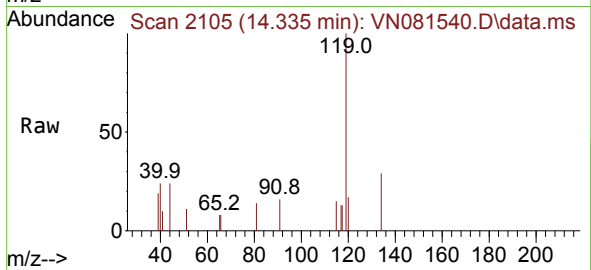




#90
Hexachloroethane
Concen: 0.237 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

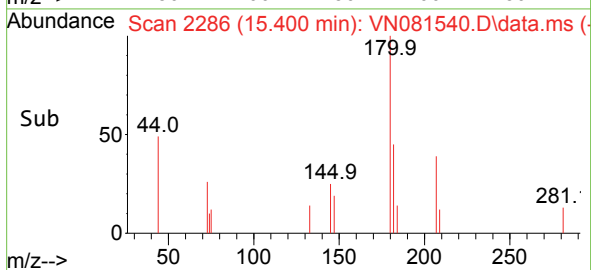
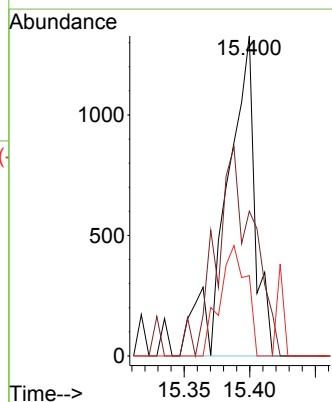
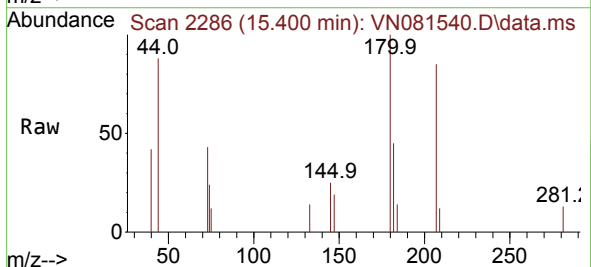
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

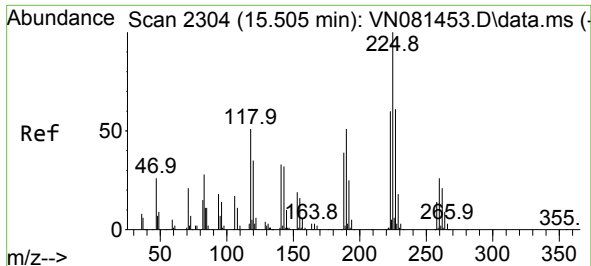
Tgt Ion:117 Resp: 938
Ion Ratio Lower Upper
117 100
201 0.0 30.0 90.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.317 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. 0.006 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion:180 Resp: 2016
Ion Ratio Lower Upper
180 100
182 84.3 46.6 139.7
145 32.6 16.8 50.3

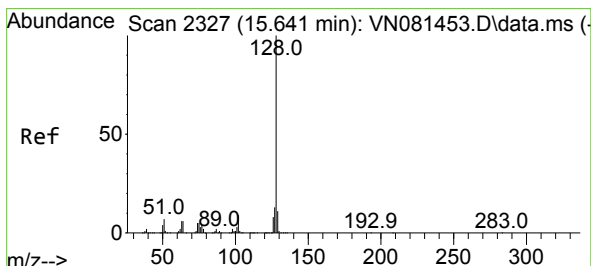
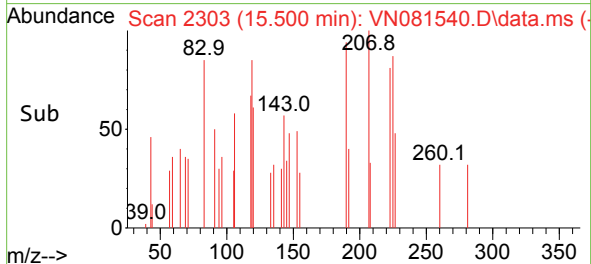
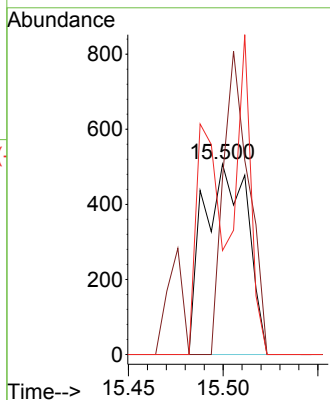
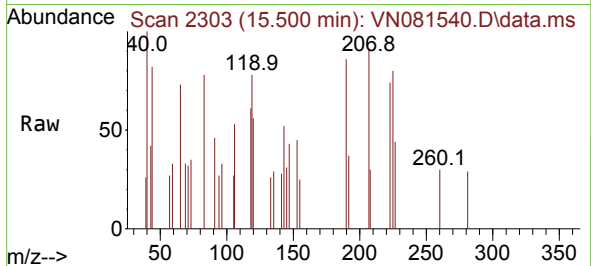




#94
Hexachlorobutadiene
Concen: 0.294 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

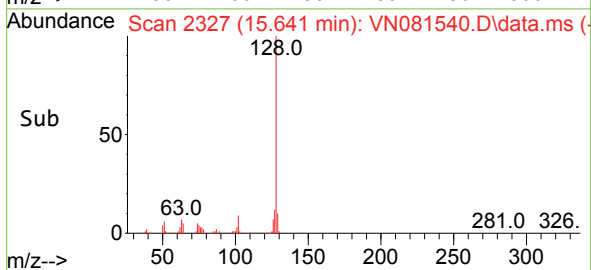
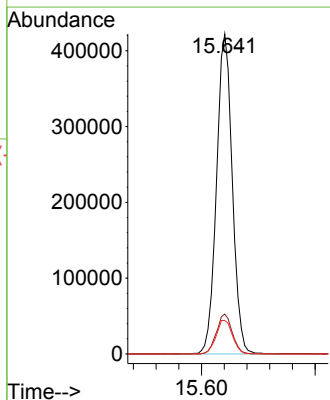
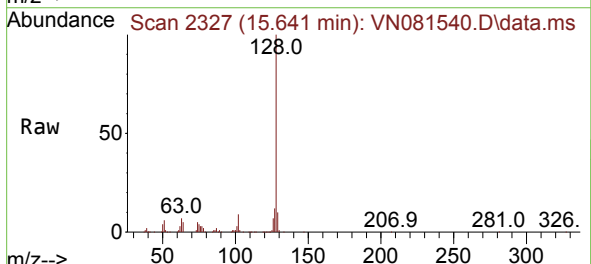
Instrument :
MSVOA_N
ClientSampleId :
S-3DL

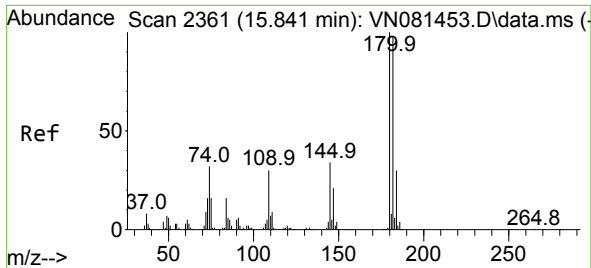
Tgt Ion:225 Resp: 820
Ion Ratio Lower Upper
225 100
223 92.2 33.3 99.8
227 57.7 33.1 99.2



#95
Naphthalene
Concen: 39.554 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN081540.D
Acq: 22 Mar 2024 12:04

Tgt Ion:128 Resp: 814288
Ion Ratio Lower Upper
128 100
127 12.5 10.0 15.0
129 11.0 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.337 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN081540.D
 Acq: 22 Mar 2024 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 S-3DL

Tgt Ion:180 Resp: 2152
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.5 139.3#
 145 43.0 17.8 53.4

