

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032124\
 Data File : VN081525.D
 Acq On : 21 Mar 2024 17:24
 Operator : JC\MD
 Sample : P1798-08 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S-8

Quant Time: Mar 22 05:09:58 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)

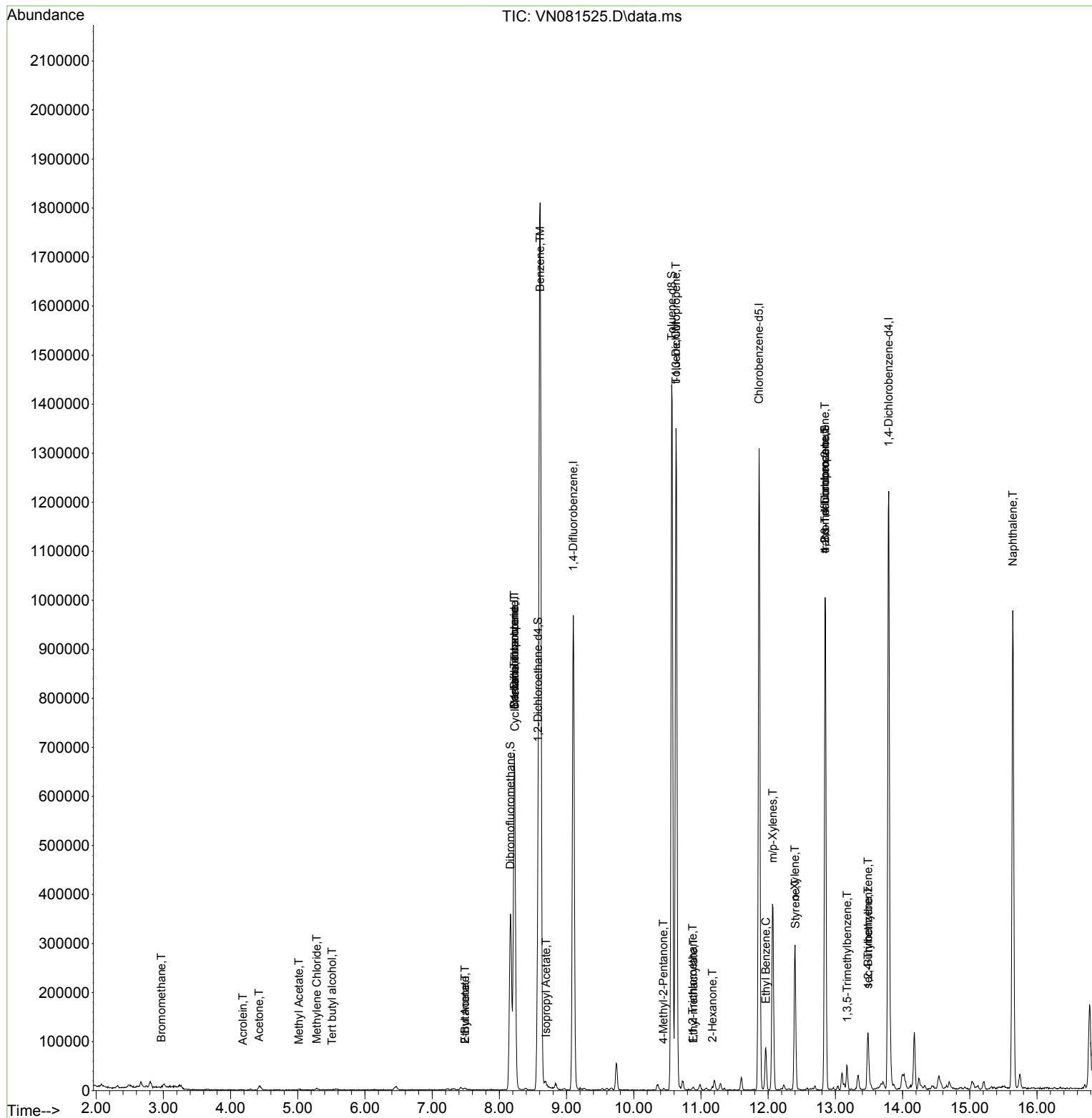
Internal Standards						
1) Pentafluorobenzene	8.224	168	490149	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	872899	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	764104	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	335846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	304939	48.785	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.560%		
35) Dibromofluoromethane	8.165	113	257618	46.764	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.520%		
50) Toluene-d8	10.565	98	1015229	50.981	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.960%		
62) 4-Bromofluorobenzene	12.847	95	343362	48.934	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	97.860%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	1481	0.284	ug/l #	34
11) Tert butyl alcohol	5.512	59	691	0.634	ug/l #	72
13) Acrolein	4.183	56	418	0.428	ug/l #	15
16) Acetone	4.424	43	14896	7.374	ug/l #	79
18) Methyl Acetate	5.018	43	2569	0.413	ug/l #	83
20) Methylene Chloride	5.283	84	1874	0.283	ug/l #	73
25) 2-Butanone	7.488	43	4915	1.419	ug/l #	74
31) Cyclohexane	8.229	56	13297	1.307	ug/l #	19
36) 1,1-Dichloropropene	8.224	75	41240	4.448	ug/l #	51
37) Ethyl Acetate	7.488	43	4915	0.619	ug/l #	70
38) Carbon Tetrachloride	8.224	117	54413	5.358	ug/l #	17
40) Benzene	8.606	78	1834734	67.693	ug/l	96
43) Isopropyl Acetate	8.694	43	16270	1.236	ug/l #	78
51) 4-Methyl-2-Pentanone	10.441	43	2051	0.255	ug/l #	84
52) Toluene	10.629	92	610634	35.446	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	7557	0.718	ug/l #	1
55) 1,1,2-Trichloroethane	10.876	97	4575	0.660	ug/l #	17
56) Ethyl methacrylate	10.888	69	393	0.612	ug/l #	20
59) 2-Hexanone	11.170	43	4058	0.684	ug/l #	26
67) Ethyl Benzene	11.965	91	60946	1.942	ug/l	93
68) m/p-Xylenes	12.070	106	124746	10.605	ug/l	92
69) o-Xylene	12.400	106	80575	6.977	ug/l	91
70) Styrene	12.406	104	11987	0.644	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	180966	22.526	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.176	105	24892	1.053	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	180966	60.873	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.488	105	72871	3.066	ug/l	94
85) sec-Butylbenzene	13.488	105	72871	2.500	ug/l #	60
95) Naphthalene	15.641	128	893074	38.116	ug/l	99

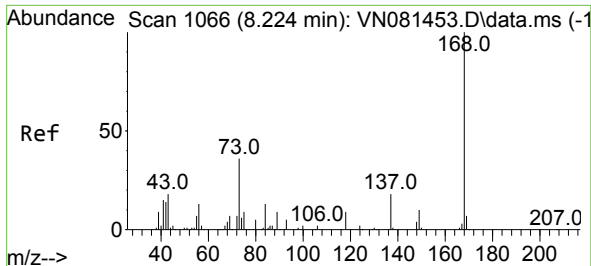
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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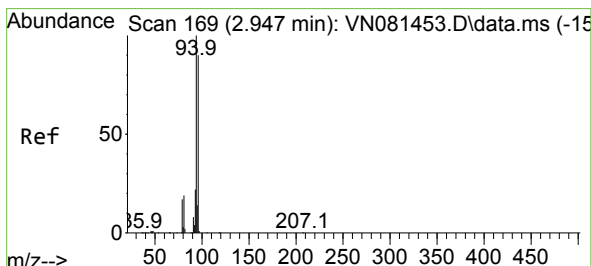
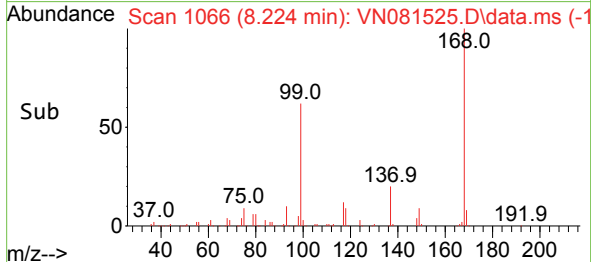
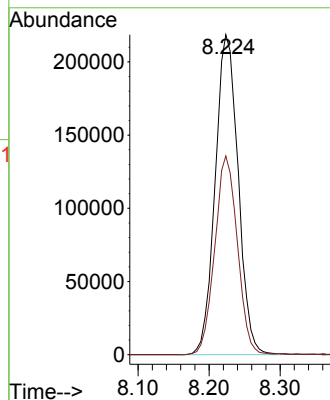
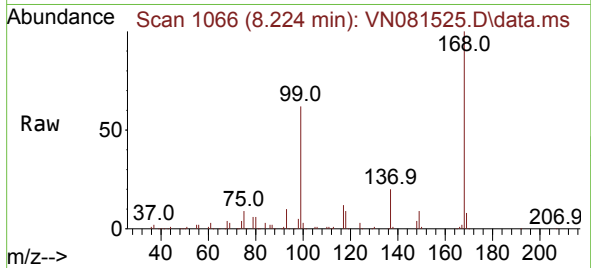




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

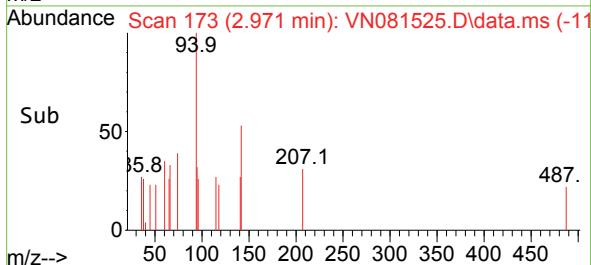
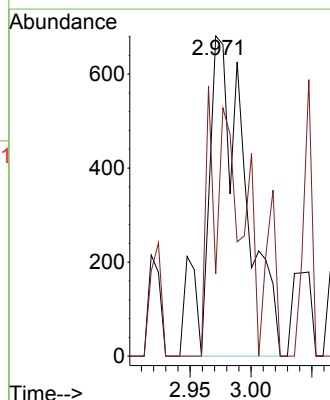
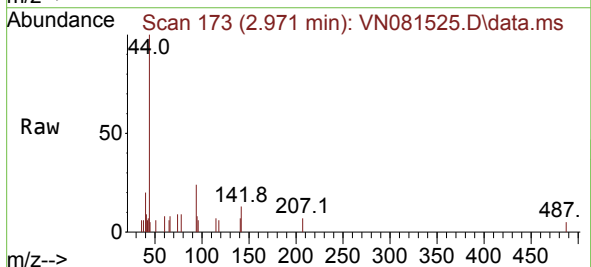
Instrument :
MSVOA_N
ClientSampleId :
S-8

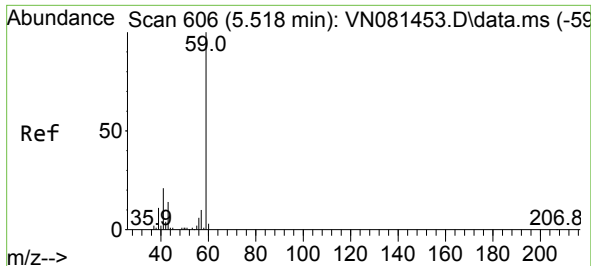
Tgt Ion:168 Resp: 490149
Ion Ratio Lower Upper
168 100
99 62.1 59.9 89.9



#5
Bromomethane
Concen: 0.284 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.023 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 94 Resp: 1481
Ion Ratio Lower Upper
94 100
96 25.7 69.2 103.8#

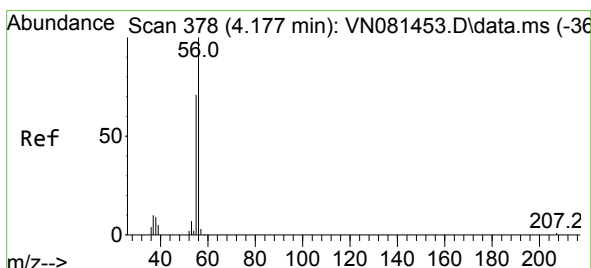
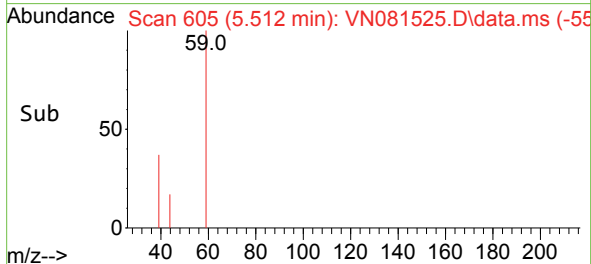
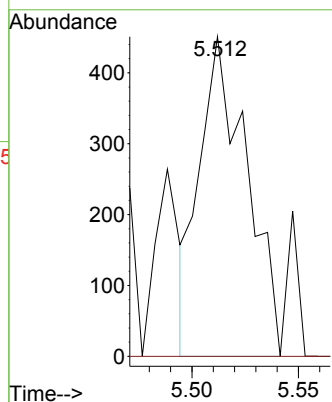
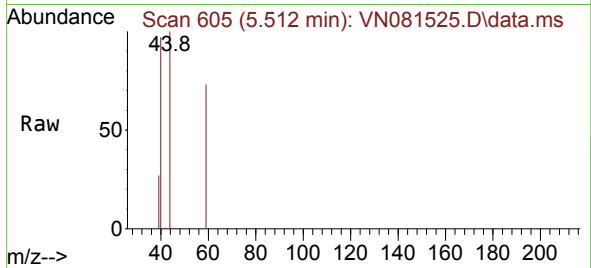




#11
Tert butyl alcohol
Concen: 0.634 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

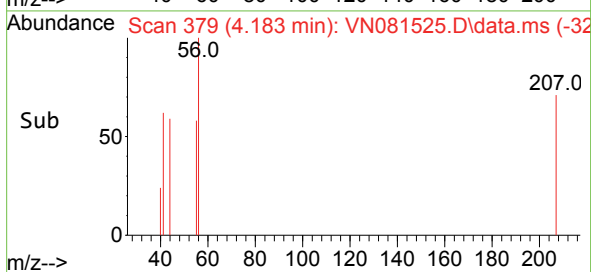
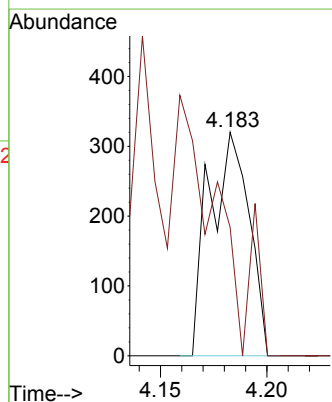
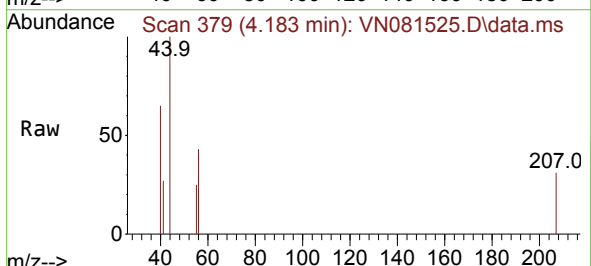
Instrument :
MSVOA_N
ClientSampleId :
S-8

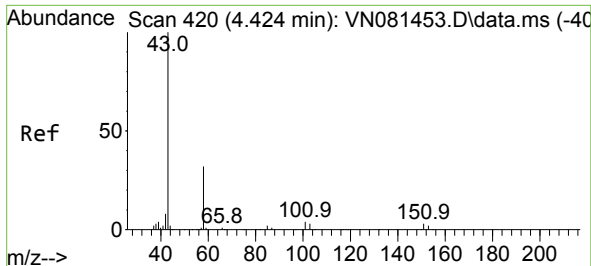
Tgt Ion: 59 Resp: 691
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.428 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 56 Resp: 418
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#

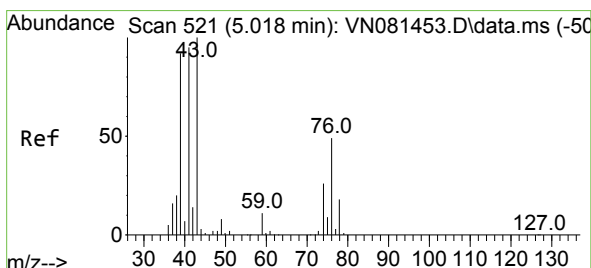
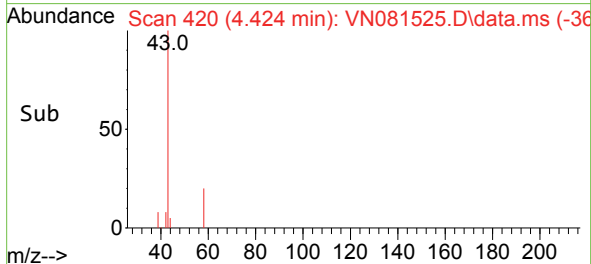
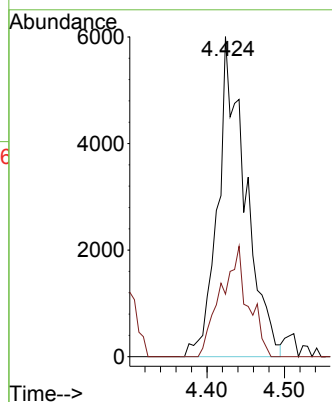
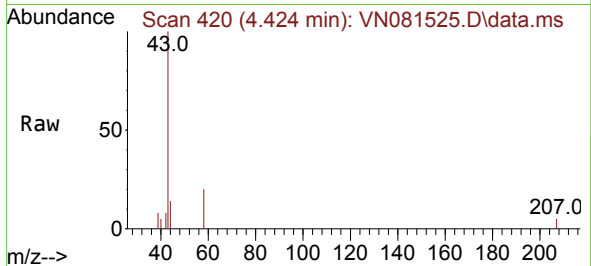




#16
Acetone
Concen: 7.374 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

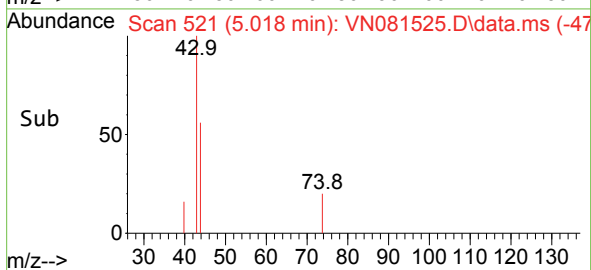
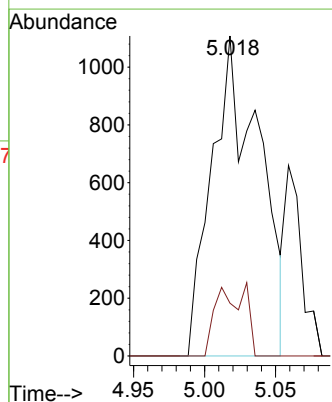
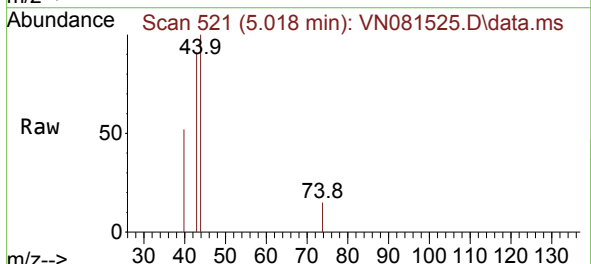
Instrument :
MSVOA_N
ClientSampleId :
S-8

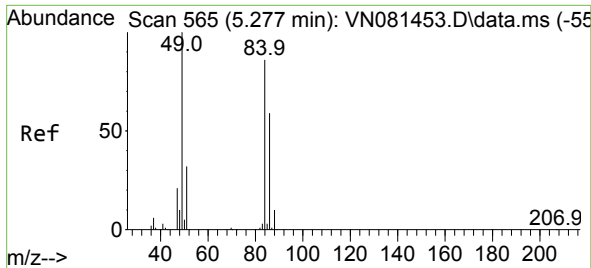
Tgt Ion: 43 Resp: 14896
Ion Ratio Lower Upper
43 100
58 19.6 24.8 37.2#



#18
Methyl Acetate
Concen: 0.413 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 43 Resp: 2569
Ion Ratio Lower Upper
43 100
74 13.6 17.3 25.9#

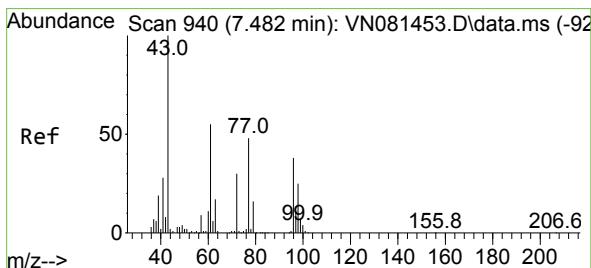
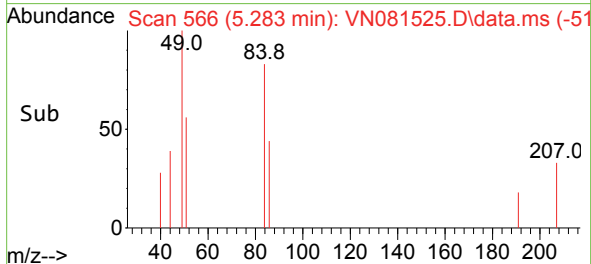
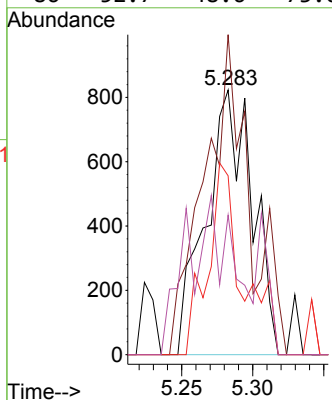
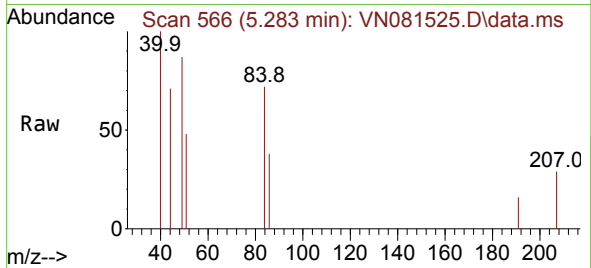




#20
Methylene Chloride
Concen: 0.283 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

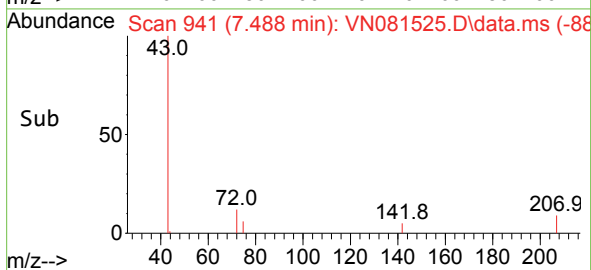
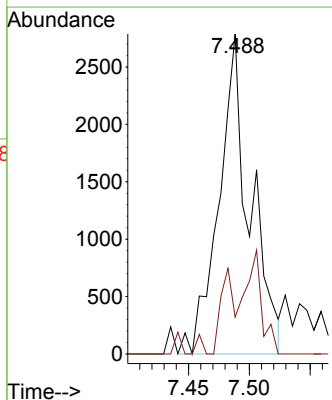
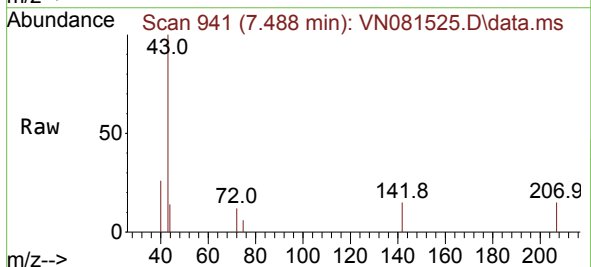
Instrument :
MSVOA_N
ClientSampleId :
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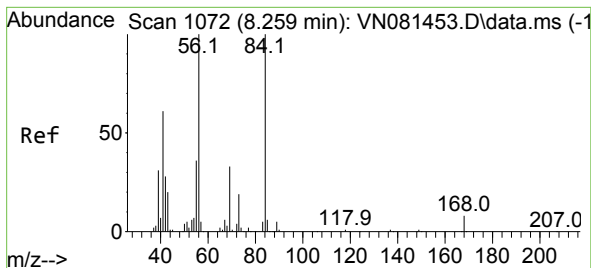
Tgt Ion:	84	Resp:	1874
Ion	Ratio	Lower	Upper
84	100		
49	98.8	108.1	162.1#
51	67.6	32.9	49.3#
86	52.7	48.6	73.0



#25
2-Butanone
Concen: 1.419 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion:	43	Resp:	4915
Ion	Ratio	Lower	Upper
43	100		
72	11.5	19.5	29.3#

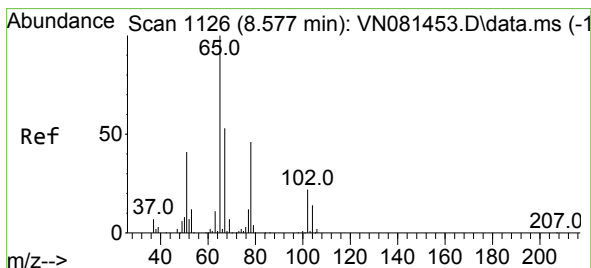
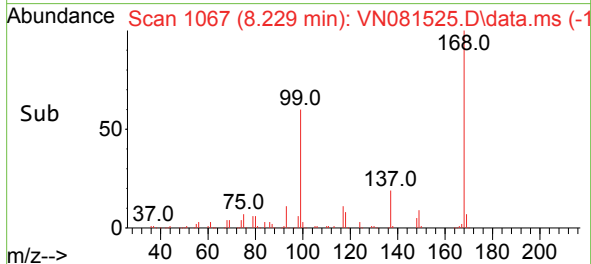
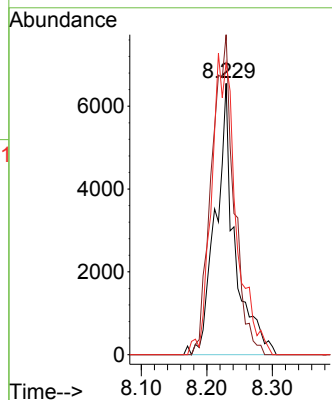
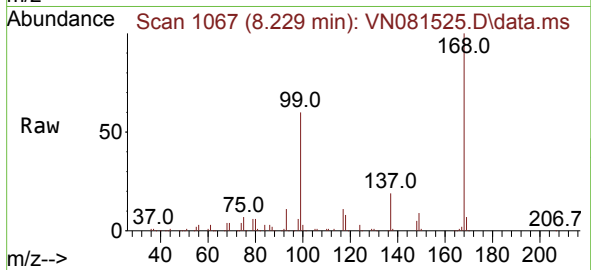




#31
Cyclohexane
Concen: 1.307 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

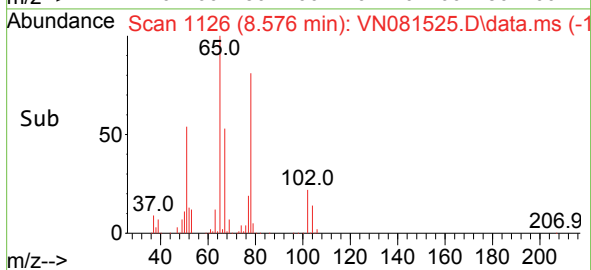
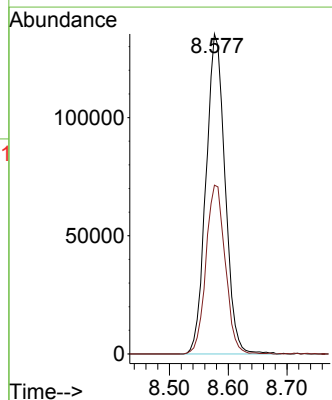
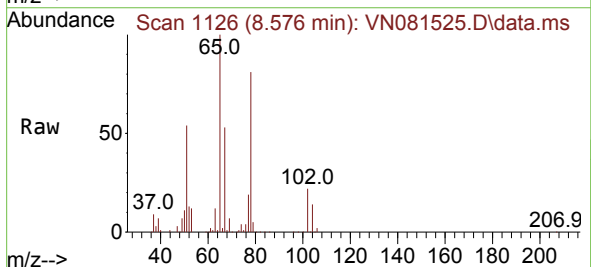
Instrument :
MSVOA_N
ClientSampleId :
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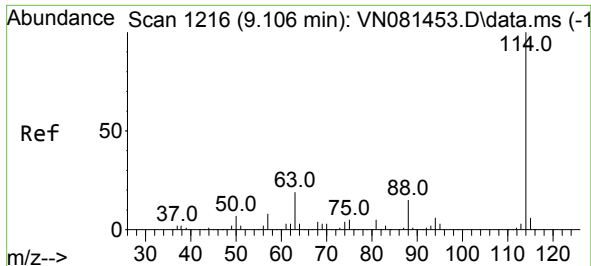
Tgt Ion: 56 Resp: 13297
Ion Ratio Lower Upper
56 100
69 117.9 20.1 30.1#
84 107.6 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 48.785 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 65 Resp: 304939
Ion Ratio Lower Upper
65 100
67 53.3 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: VN081525.D

Acq: 21 Mar 2024 17:24

Instrument :

MSVOA_N

ClientSampleId :

S-8

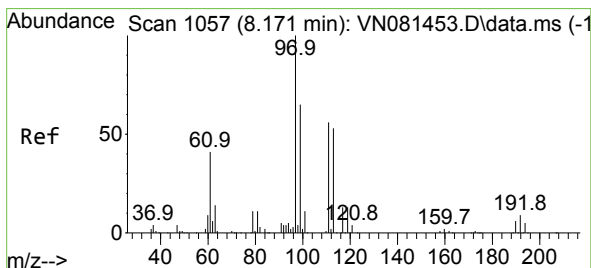
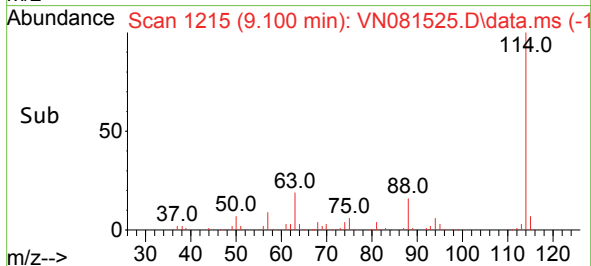
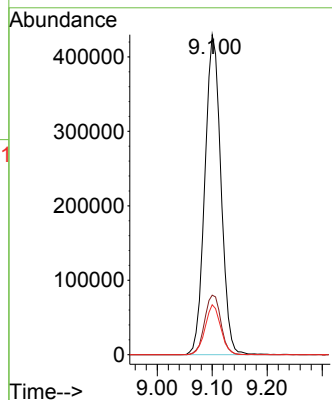
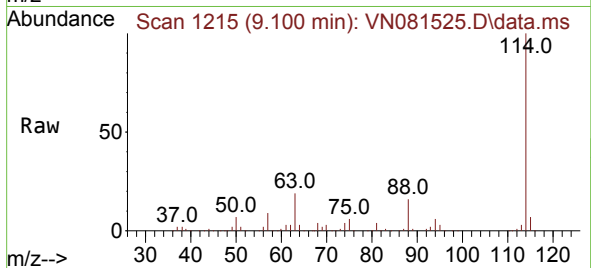
Tgt Ion:114 Resp: 872899

Ion Ratio Lower Upper

114 100

63 18.6 0.0 48.0

88 15.6 0.0 34.8



#35

Dibromofluoromethane

Concen: 46.764 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

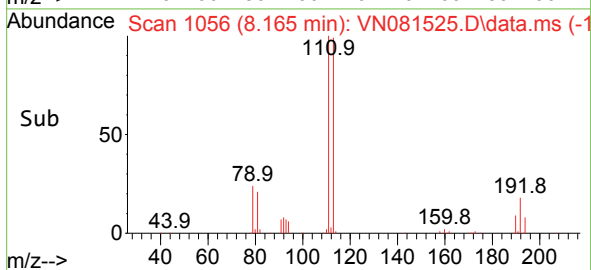
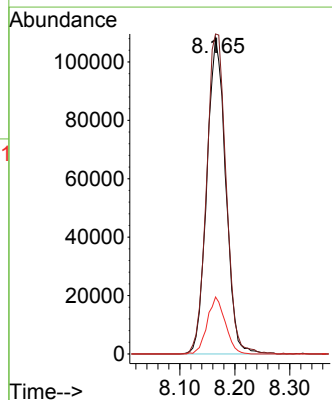
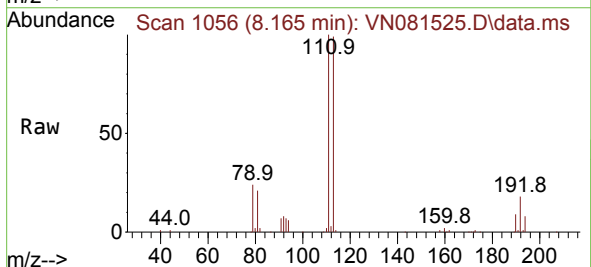
Tgt Ion:113 Resp: 257618

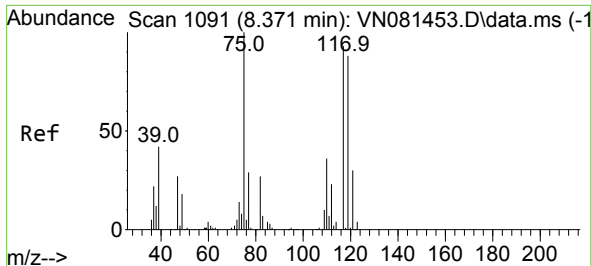
Ion Ratio Lower Upper

113 100

111 105.1 82.2 123.4

192 17.3 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.448 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

Instrument :

MSVOA_N

ClientSampleId :

S-8

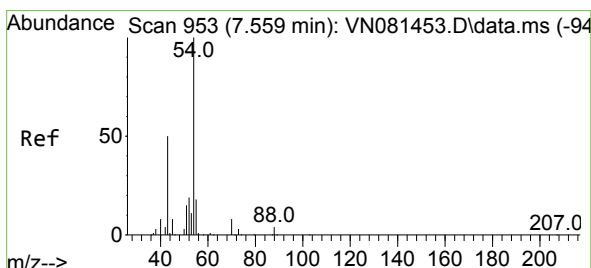
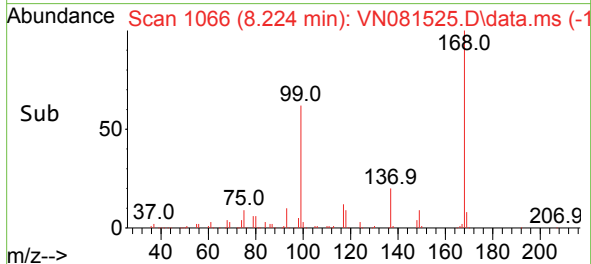
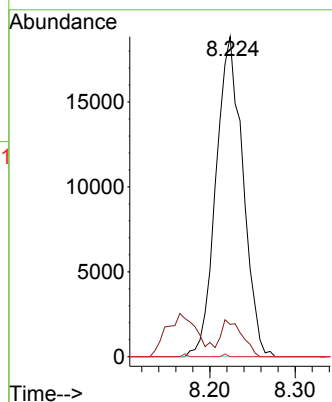
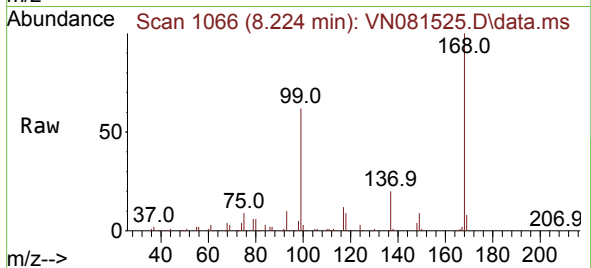
Tgt Ion: 75 Resp: 41240

Ion Ratio Lower Upper

75 100

110 9.0 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 0.619 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

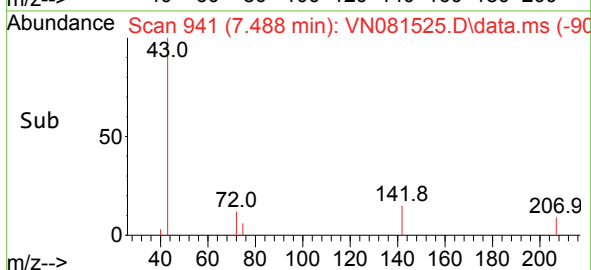
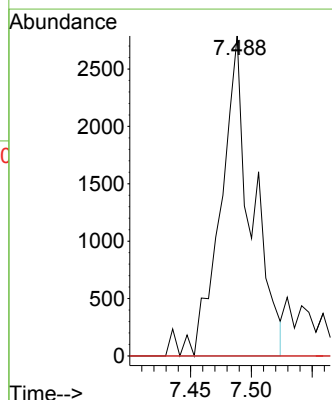
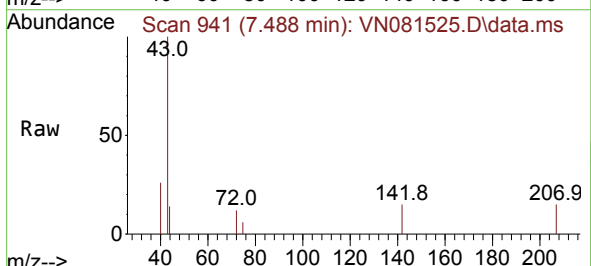
Tgt Ion: 43 Resp: 4915

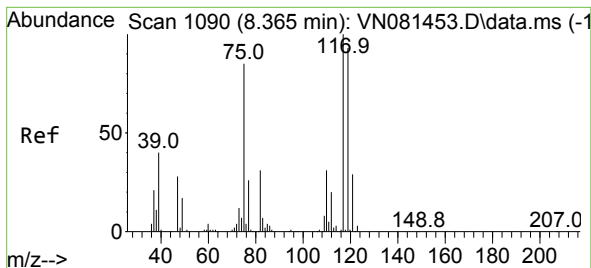
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 8.0 12.0#





#38

Carbon Tetrachloride

Concen: 5.358 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

Instrument :

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ClientSampleId :

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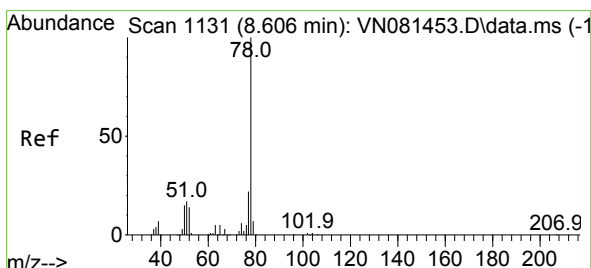
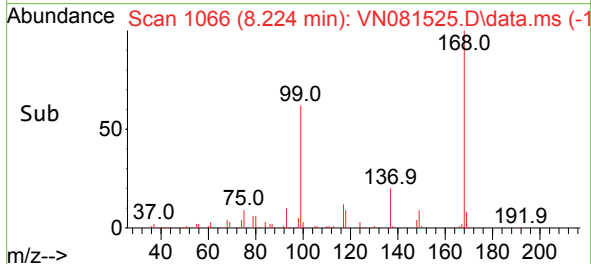
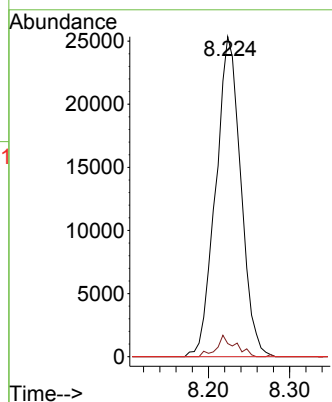
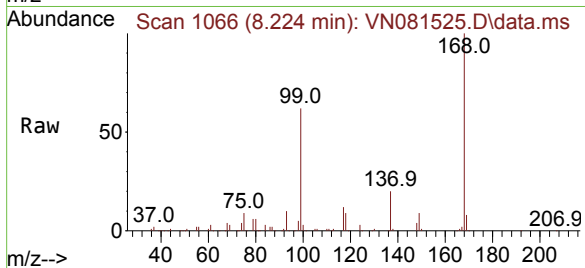
Tgt Ion:117 Resp: 54413

Ion Ratio Lower Upper

117 100

119 4.1 73.4 110.2#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 67.693 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN081525.D

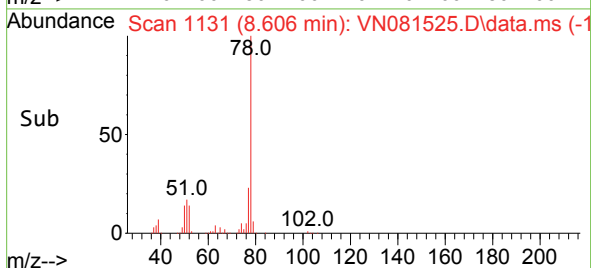
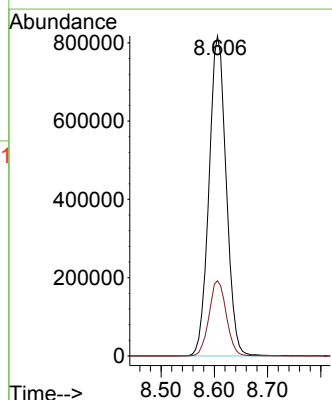
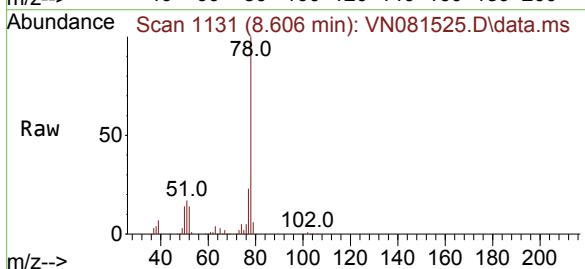
Acq: 21 Mar 2024 17:24

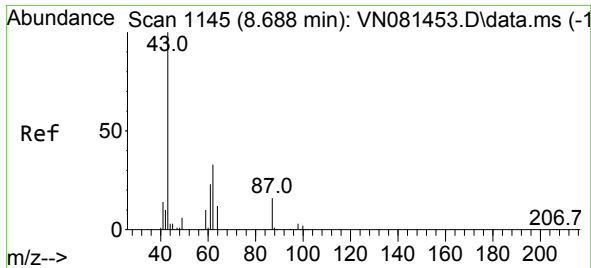
Tgt Ion: 78 Resp: 1834734

Ion Ratio Lower Upper

78 100

77 23.5 20.4 30.6

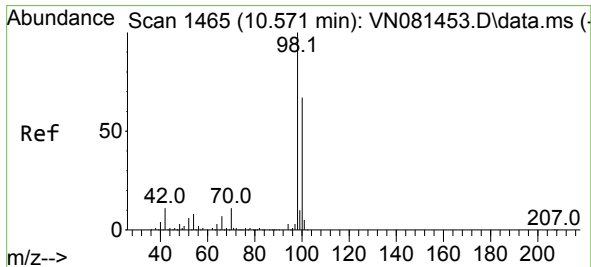
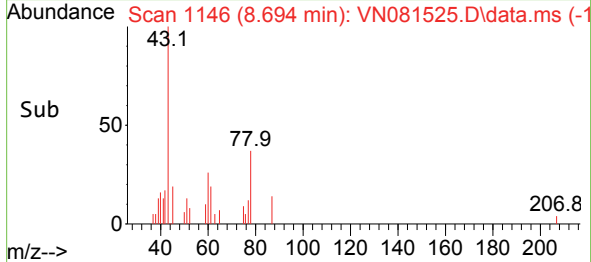
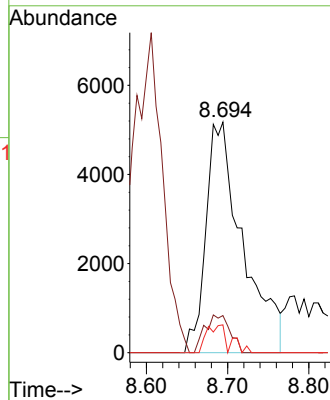
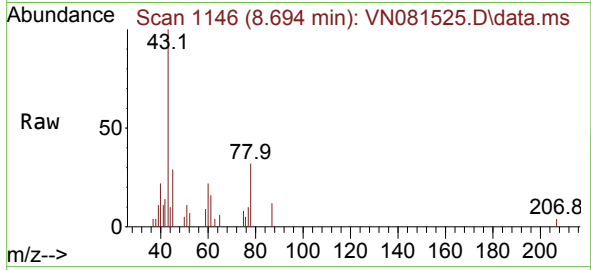




#43
Isopropyl Acetate
Concen: 1.236 ug/l
RT: 8.694 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

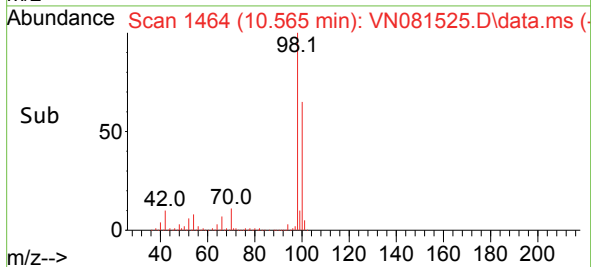
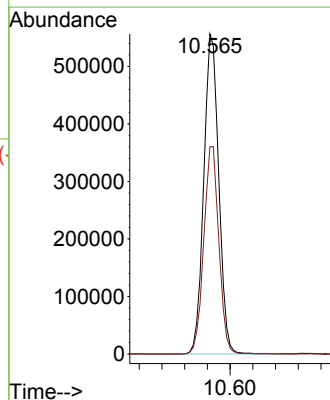
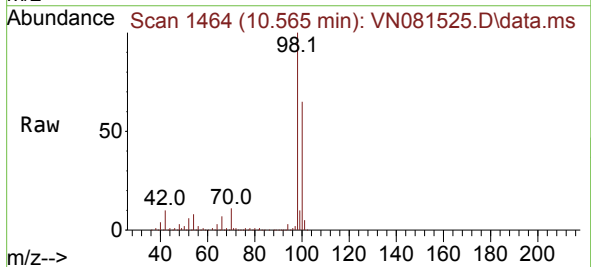
Instrument :
MSVOA_N
ClientSampleId :
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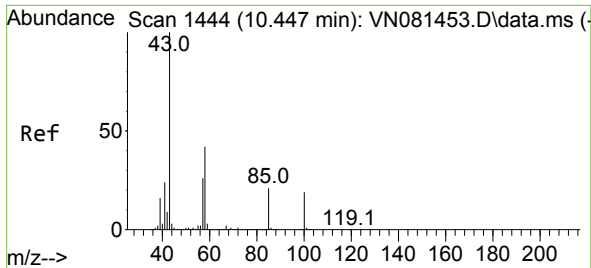
Tgt Ion: 43 Resp: 16270
Ion Ratio Lower Upper
43 100
61 11.2 19.9 29.9#
87 7.4 9.0 13.6#



#50
Toluene-d8
Concen: 50.981 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 98 Resp: 1015229
Ion Ratio Lower Upper
98 100
100 65.2 51.4 77.0

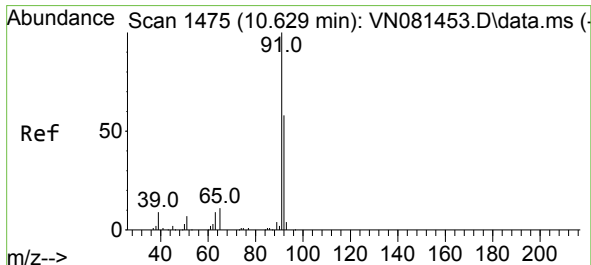
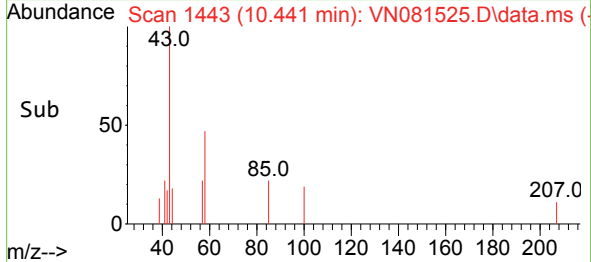
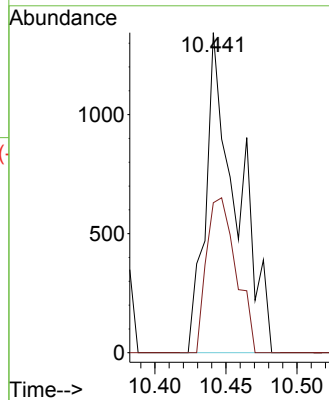
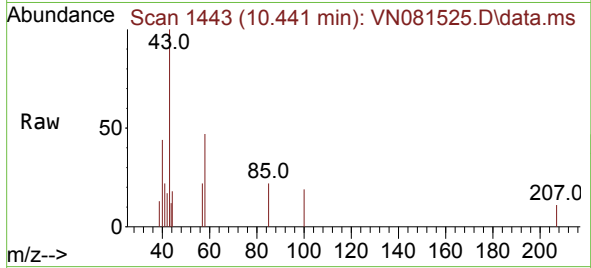




#51
4-Methyl-2-Pentanone
Concen: 0.255 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

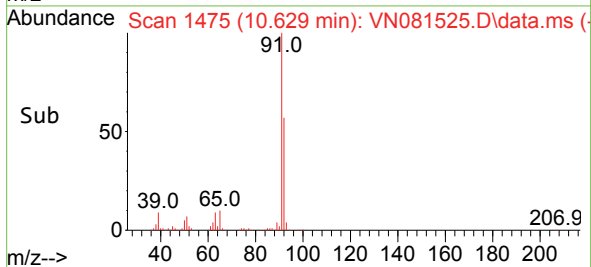
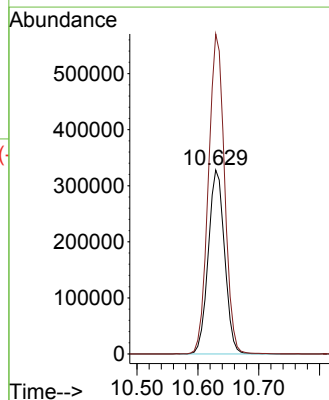
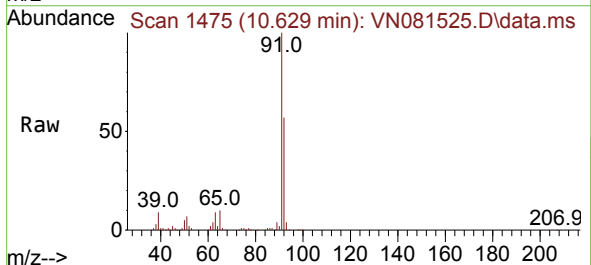
Instrument :
MSVOA_N
ClientSampleId :
S-8

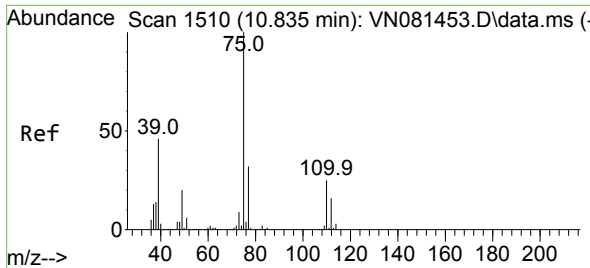
Tgt Ion: 43 Resp: 2051
Ion Ratio Lower Upper
43 100
58 46.0 29.4 44.0#



#52
Toluene
Concen: 35.446 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 92 Resp: 610634
Ion Ratio Lower Upper
92 100
91 172.1 139.4 209.0

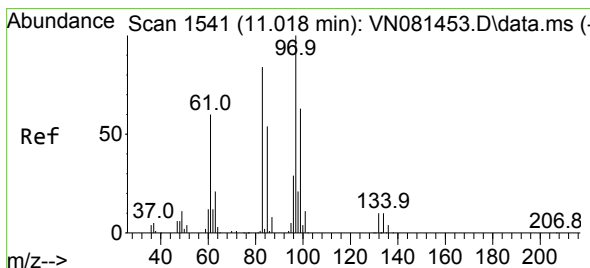
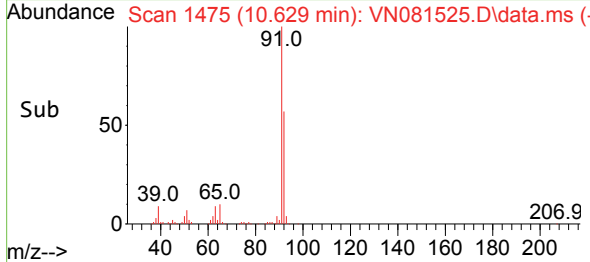
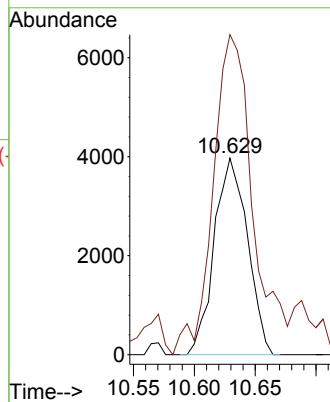
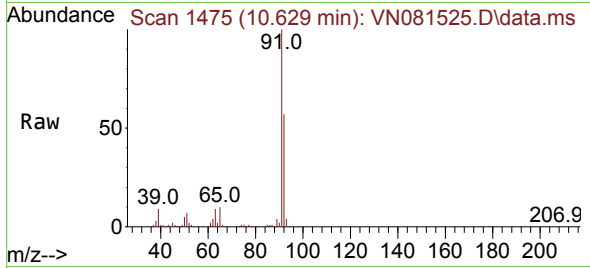




#53
t-1,3-Dichloropropene
Concen: 0.718 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.206 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

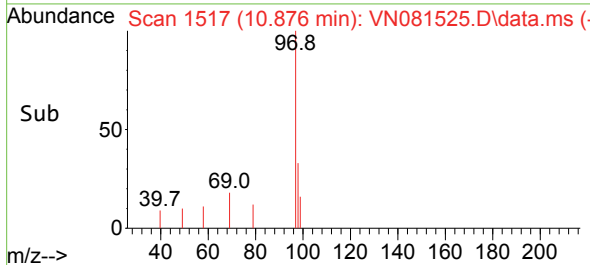
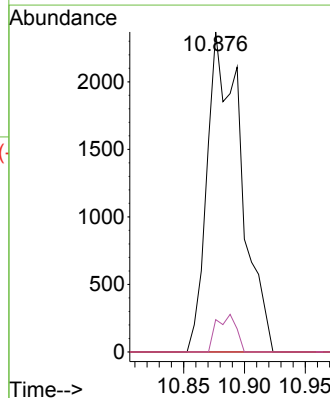
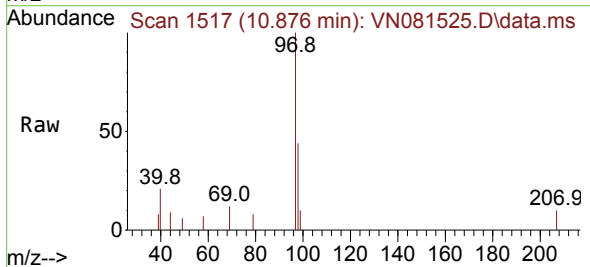
Instrument :
MSVOA_N
ClientSampleId :
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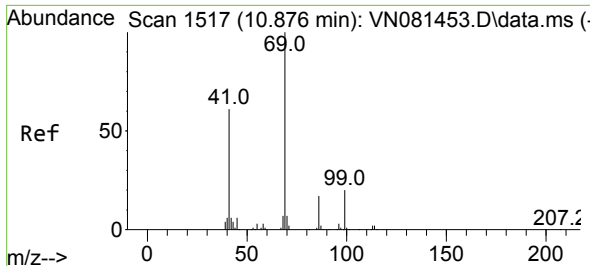
Tgt Ion: 75 Resp: 7557
Ion Ratio Lower Upper
75 100
77 152.7 25.5 38.3#



#55
1,1,2-Trichloroethane
Concen: 0.660 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.141 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 97 Resp: 4575
Ion Ratio Lower Upper
97 100
83 0.0 72.9 109.3#
85 0.0 50.2 75.2#
99 10.1 49.6 74.4#

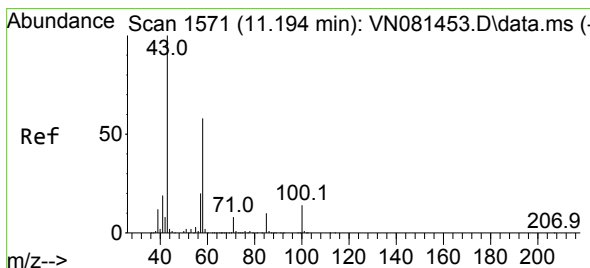
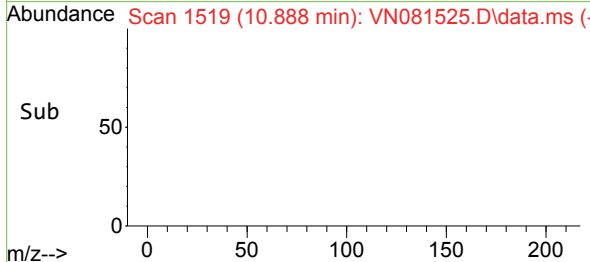
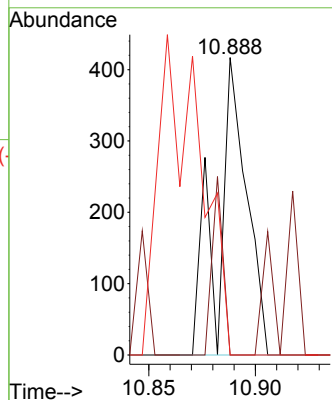
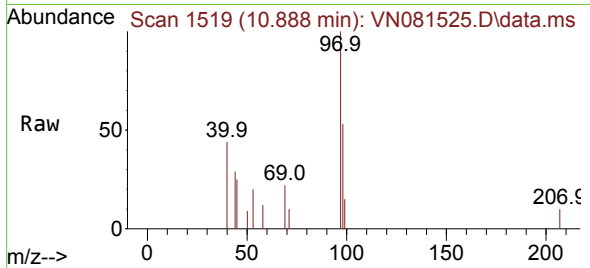




#56
Ethyl methacrylate
Concen: 0.612 ug/l
RT: 10.888 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

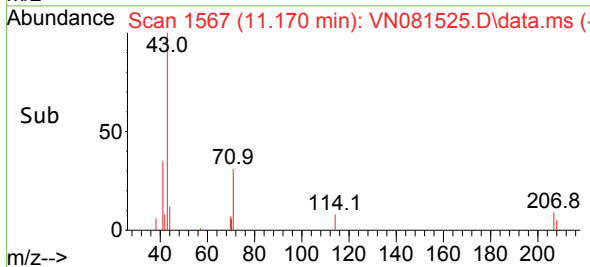
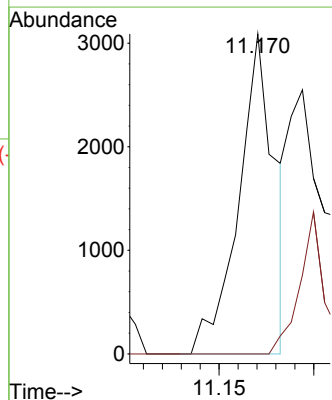
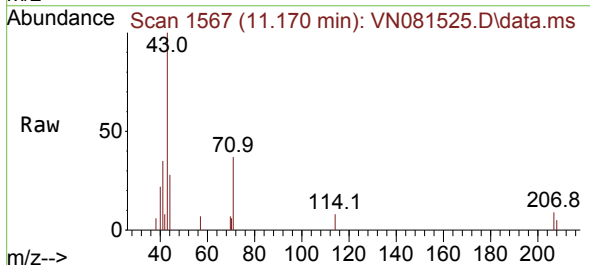
Instrument :
MSVOA_N
ClientSampleId :
S-8

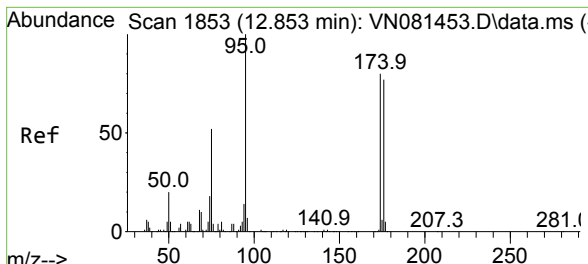
Tgt Ion: 69 Resp: 393
Ion Ratio Lower Upper
69 100
41 0.0 61.0 91.6#
39 0.0 31.8 47.6#



#59
2-Hexanone
Concen: 0.684 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 43 Resp: 4058
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

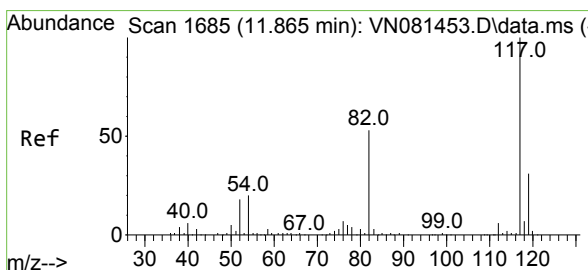
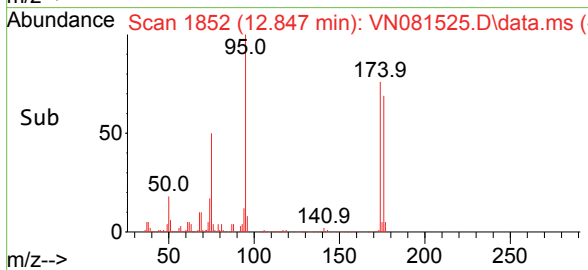
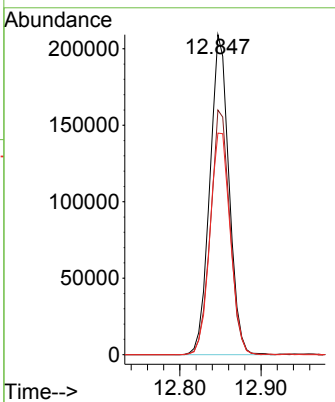
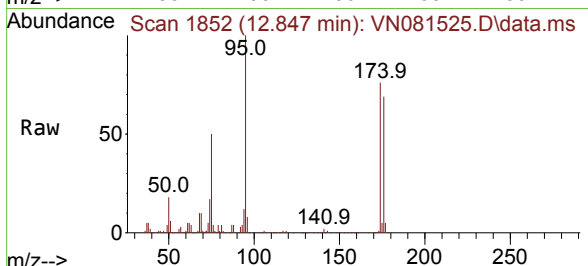




#62
4-Bromofluorobenzene
Concen: 48.934 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

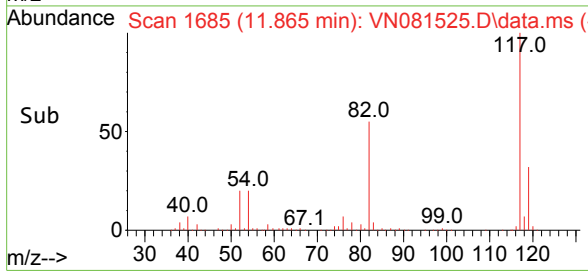
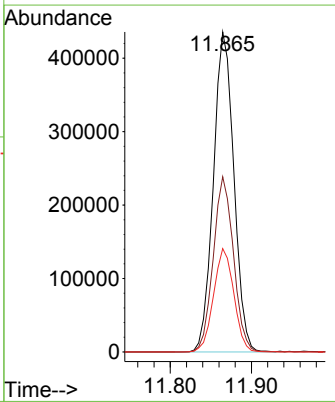
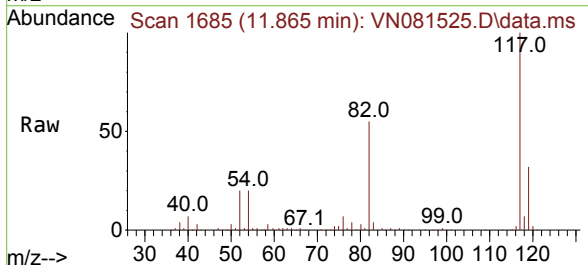
Instrument :
MSVOA_N
ClientSampleId :
S-8

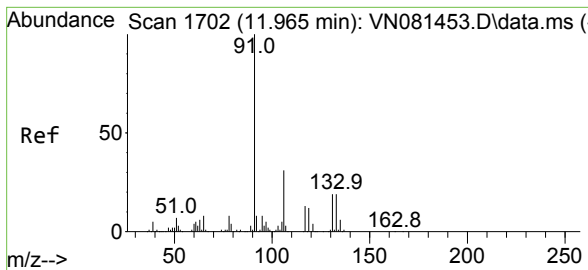
Tgt Ion:	95	Resp:	343362
Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	120.4
176	73.5	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion:	117	Resp:	764104
Ion	Ratio	Lower	Upper
117	100		
82	54.8	52.7	79.1
119	32.3	25.3	37.9

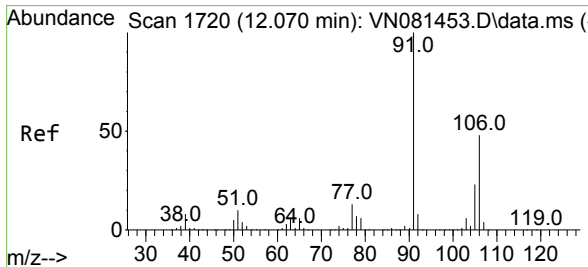
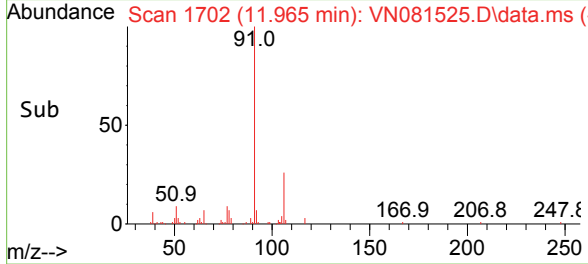
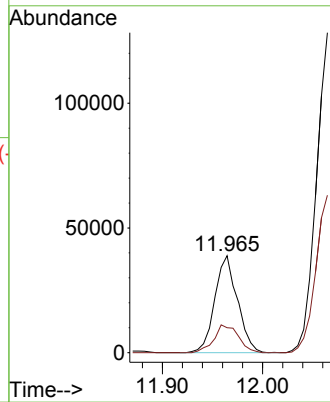
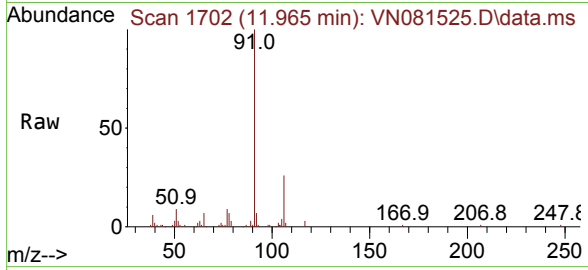




#67
Ethyl Benzene
Concen: 1.942 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

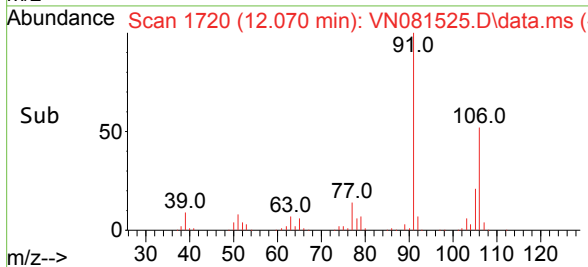
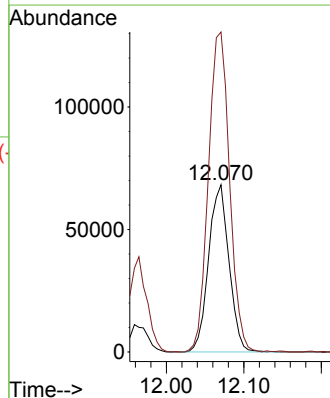
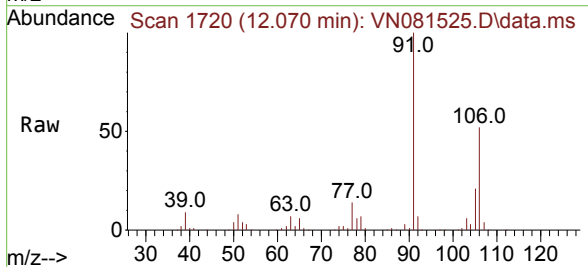
Instrument :
MSVOA_N
ClientSampleId :
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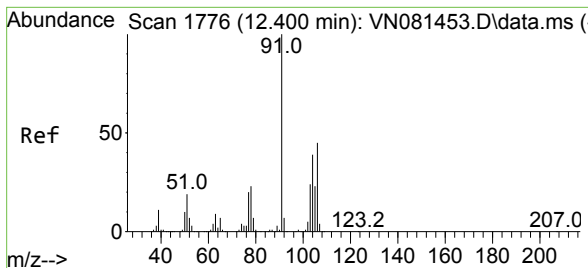
Tgt Ion: 91 Resp: 60946
Ion Ratio Lower Upper
91 100
106 25.8 23.8 35.6



#68
m/p-Xylenes
Concen: 10.605 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion:106 Resp: 124746
Ion Ratio Lower Upper
106 100
91 198.3 169.0 253.6





#69

o-Xylene

Concen: 6.977 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

Instrument :

MSVOA_N

ClientSampleId :

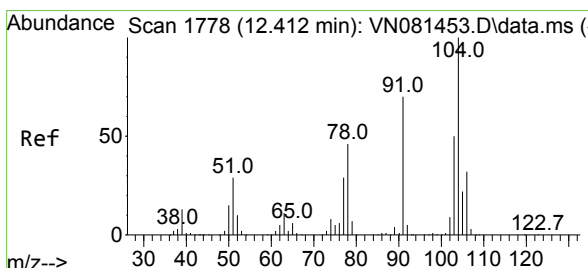
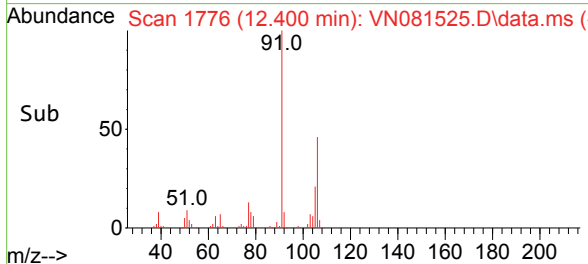
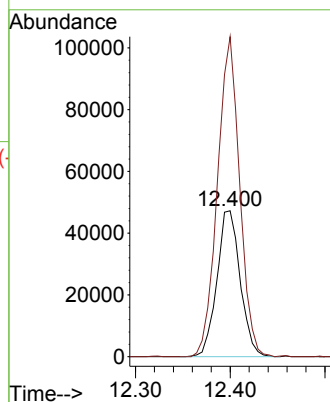
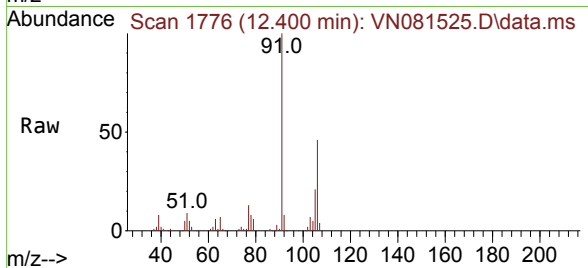
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Tgt Ion:106 Resp: 80575

Ion Ratio Lower Upper

106 100

91 209.6 112.1 336.3



#70

Styrene

Concen: 0.644 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

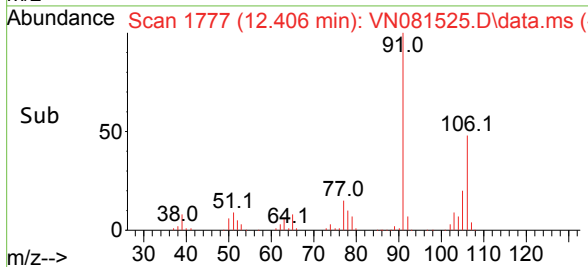
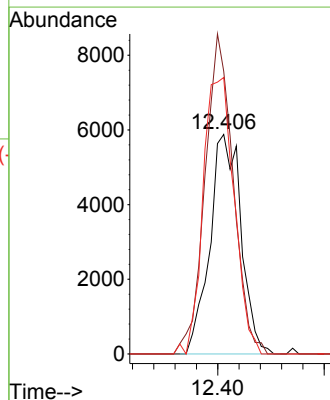
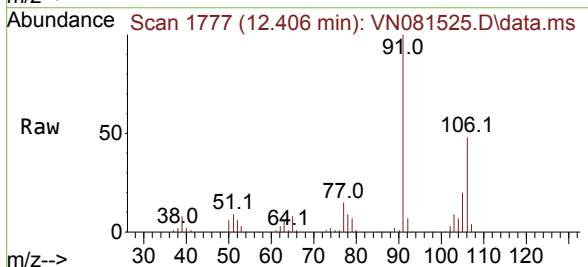
Tgt Ion:104 Resp: 11987

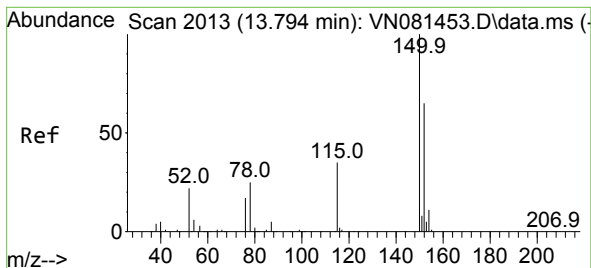
Ion Ratio Lower Upper

104 100

78 131.1 43.8 65.8#

103 125.1 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN081525.D

Acq: 21 Mar 2024 17:24

Instrument :

MSVOA_N

ClientSampleId :

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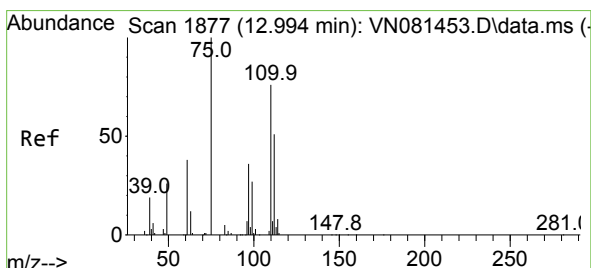
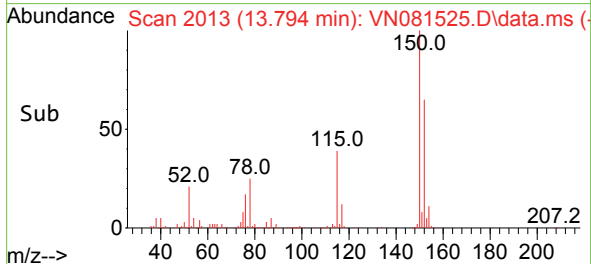
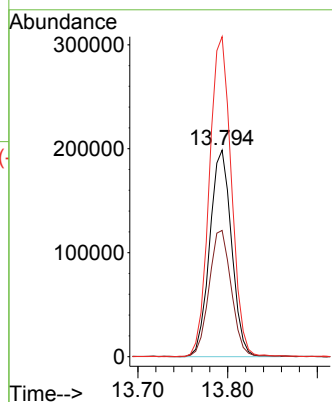
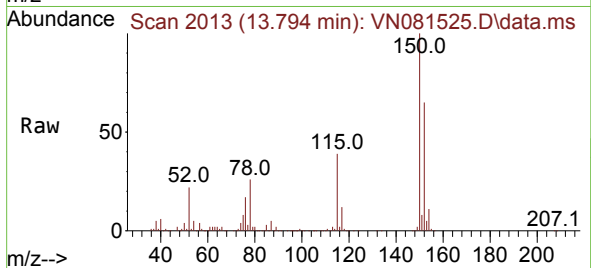
Tgt Ion:152 Resp: 335846

Ion Ratio Lower Upper

152 100

115 62.5 32.3 96.8

150 156.4 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 22.526 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081525.D

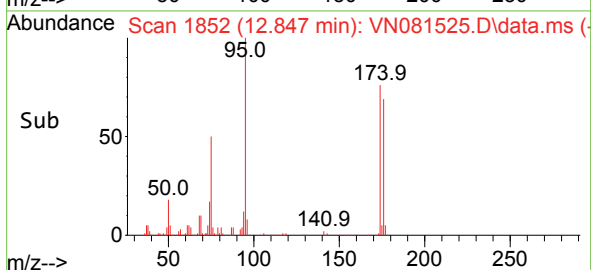
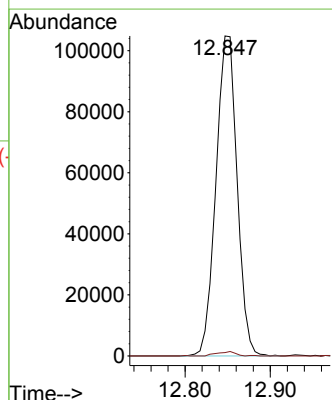
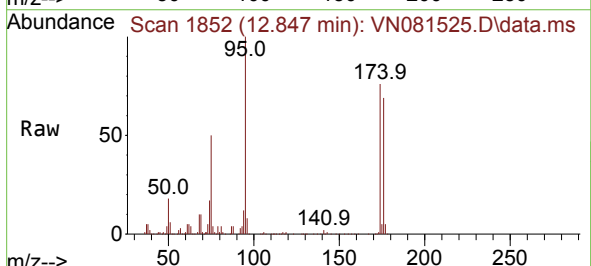
Acq: 21 Mar 2024 17:24

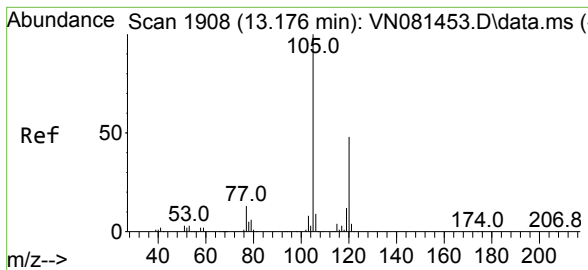
Tgt Ion: 75 Resp: 180966

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#

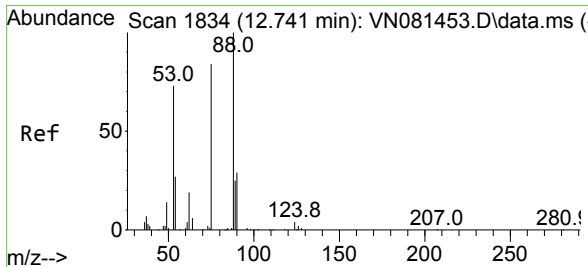
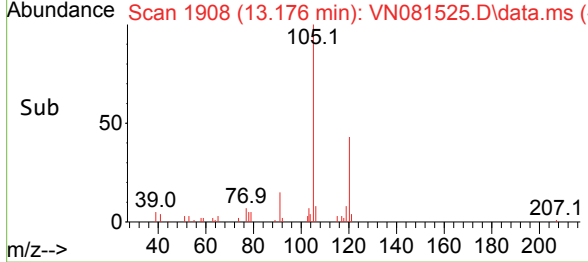
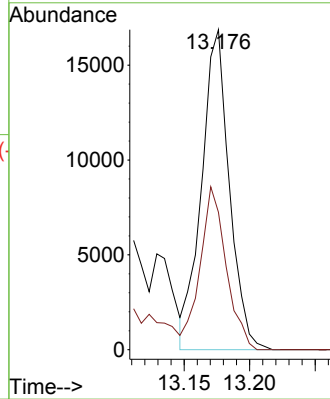
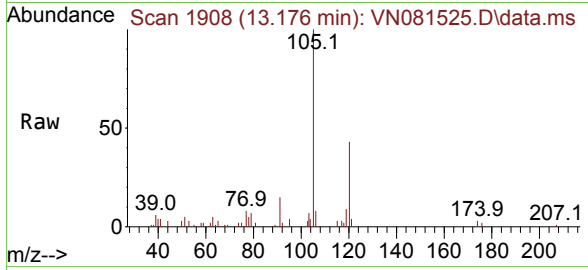




#80
1,3,5-Trimethylbenzene
Concen: 1.053 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

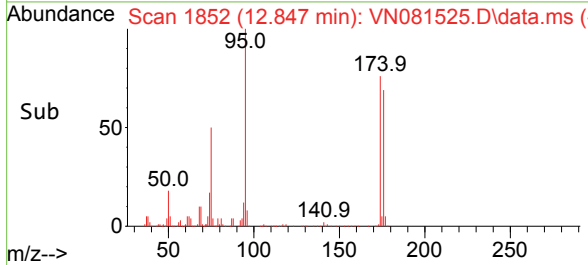
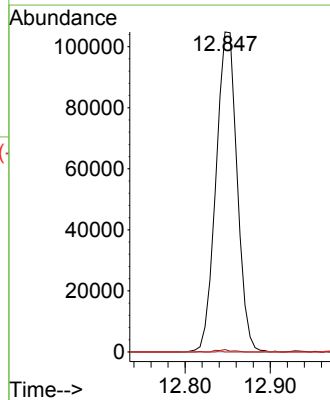
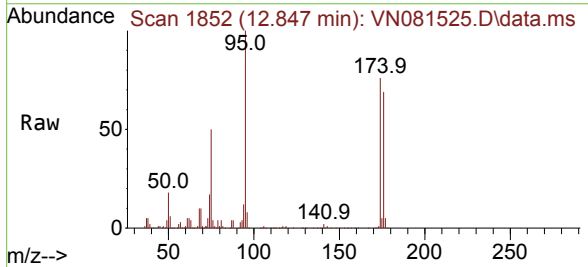
Instrument :
MSVOA_N
ClientSampleId :
S-8

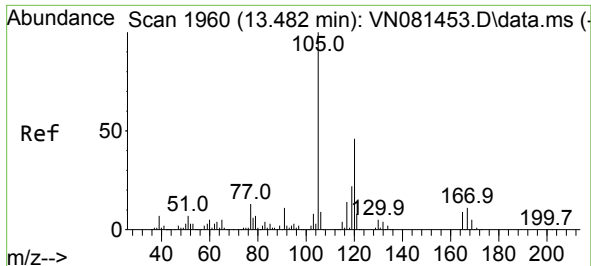
Tgt Ion:105 Resp: 24892
Ion Ratio Lower Upper
105 100
120 47.8 23.0 69.0



#81
trans-1,4-Dichloro-2-butene
Concen: 60.873 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion: 75 Resp: 180966
Ion Ratio Lower Upper
75 100
53 0.5 71.4 107.2#
89 0.1 33.4 50.0#

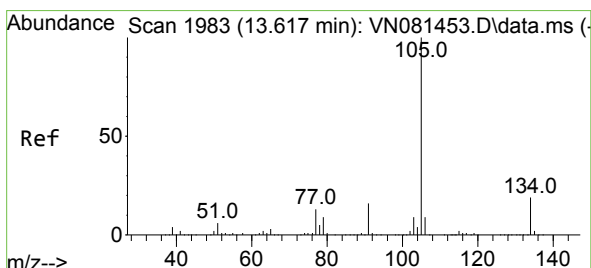
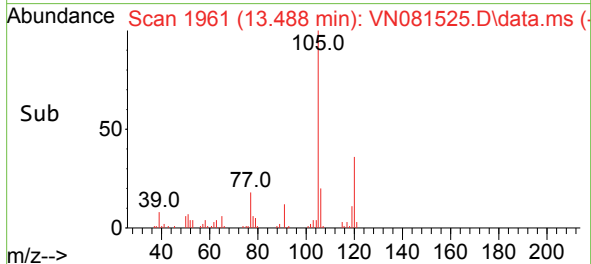
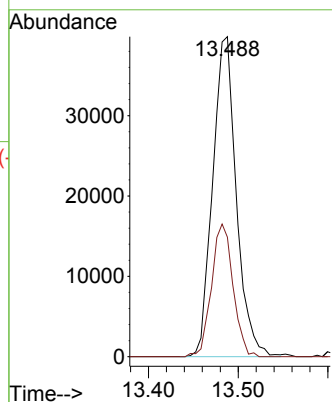
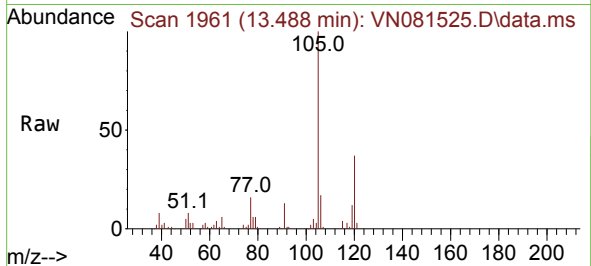




#84
1,2,4-Trimethylbenzene
Concen: 3.066 ug/l
RT: 13.488 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

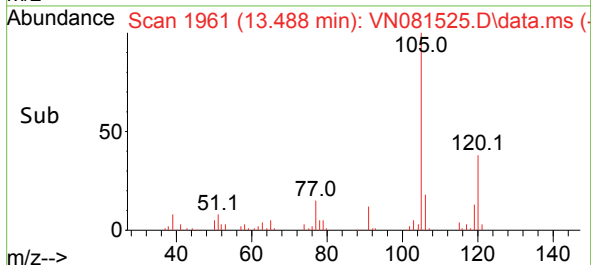
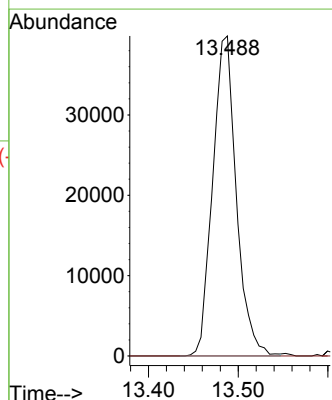
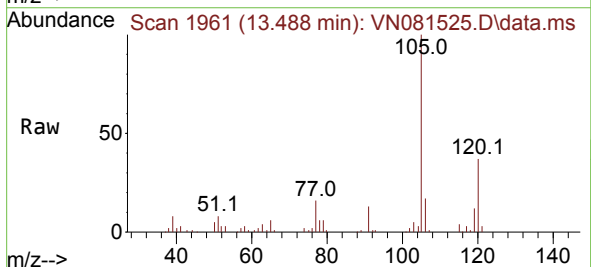
Instrument :
MSVOA_N
ClientSampleId :
S-8

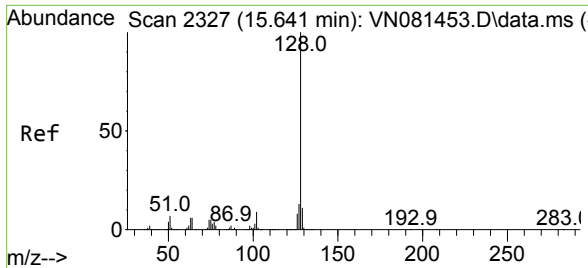
Tgt Ion:105 Resp: 72871
Ion Ratio Lower Upper
105 100
120 37.7 20.9 62.7



#85
sec-Butylbenzene
Concen: 2.500 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.129 min
Lab File: VN081525.D
Acq: 21 Mar 2024 17:24

Tgt Ion:105 Resp: 72871
Ion Ratio Lower Upper
105 100
134 0.0 8.6 25.8#





#95

Naphthalene

Concen: 38.116 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN081525.D

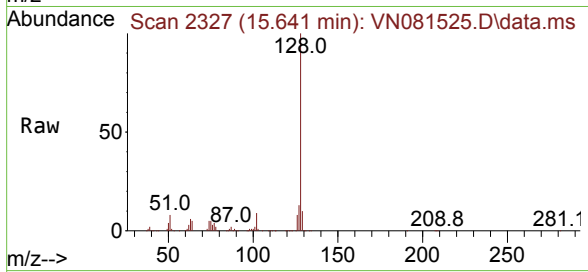
Acq: 21 Mar 2024 17:24

Instrument :

MSVOA_N

ClientSampleId :

S-8



Tgt Ion:128 Resp: 893074

Ion Ratio Lower Upper

128 100

127 13.0 10.0 15.0

129 10.7 8.7 13.1

