

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061724\
 Data File : VN082614.D
 Acq On : 17 Jun 2024 17:23
 Operator : JC\MD
 Sample : PB161507ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB161507ZHE#01

Quant Time: Jun 18 18:39:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

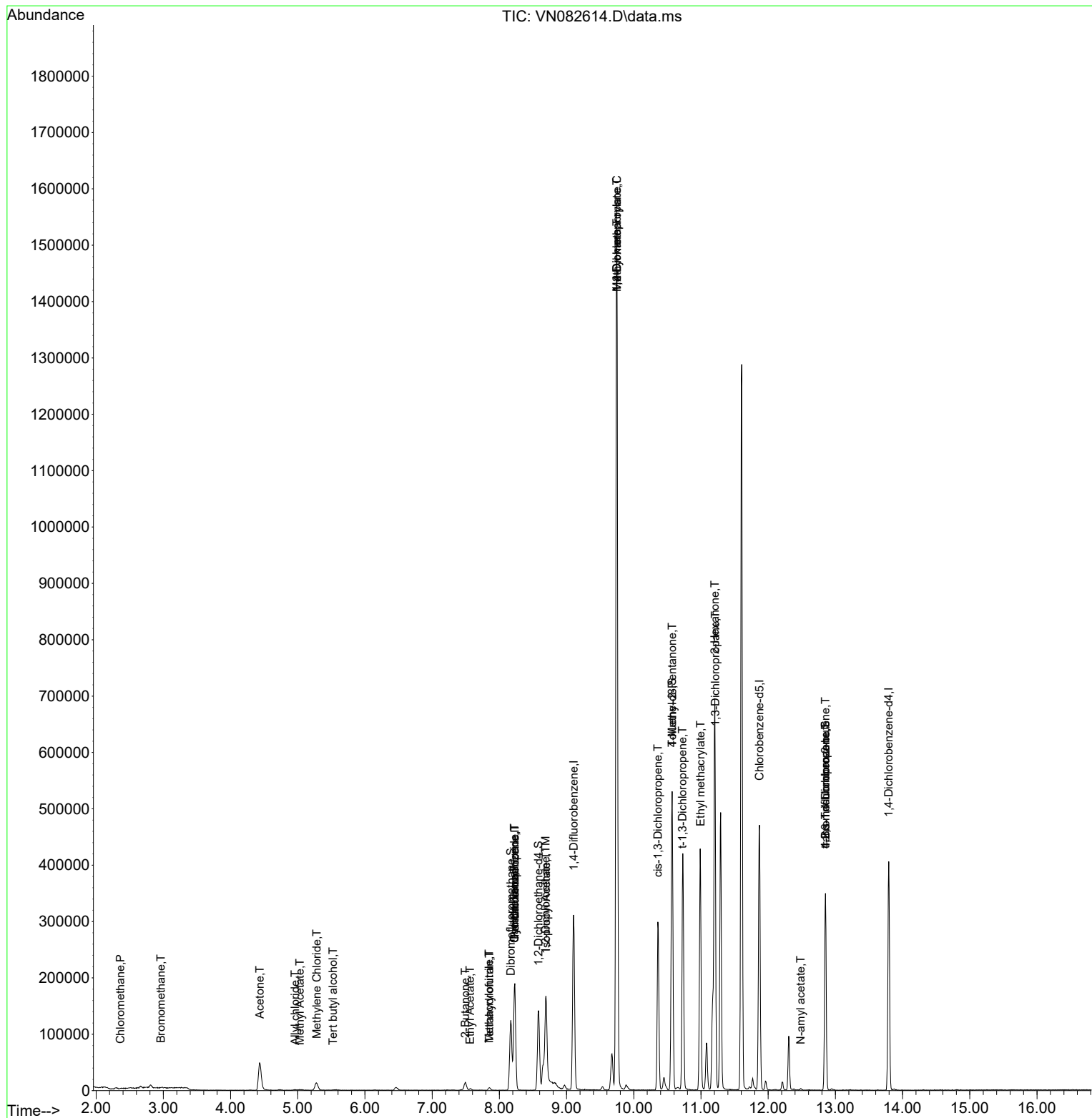
Internal Standards						
1) Pentafluorobenzene	8.230	168	130925	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	249631	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	254109	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	116791	55.626	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.260%			
35) Dibromofluoromethane	8.171	113	87092	51.428	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.860%			
50) Toluene-d8	10.571	98	333806	52.124	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.240%			
62) 4-Bromofluorobenzene	12.853	95	110230	49.925	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 99.860%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	491	0.224	ug/l #	43
5) Bromomethane	2.965	94	561	0.418	ug/l	98
11) Tert butyl alcohol	5.524	59	241	0.701	ug/l #	71
14) Allyl chloride	4.959	41	1454	0.510	ug/l #	22
16) Acetone	4.436	43	95314	99.820	ug/l	94
18) Methyl Acetate	5.030	43	2341	1.002	ug/l #	56
20) Methylene Chloride	5.283	84	9095	5.418	ug/l	93
25) 2-Butanone	7.494	43	24324	17.922	ug/l	97
29) Tetrahydrofuran	7.853	42	3491	4.202	ug/l	90
31) Cyclohexane	8.224	56	3859	1.274	ug/l #	4
36) 1,1-Dichloropropene	8.230	75	12134	4.793	ug/l #	51
37) Ethyl Acetate	7.565	43	5023	1.558	ug/l #	89
38) Carbon Tetrachloride	8.224	117	14254	4.996	ug/l #	18
41) Methacrylonitrile	7.847	41	1959	1.188	ug/l #	47
42) 1,2-Dichloroethane	8.688	62	939	0.316	ug/l #	78
43) Isopropyl Acetate	8.694	43	248009	41.153	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	1548	0.769	ug/l #	44
48) Methyl methacrylate	9.747	41	155066	62.416	ug/l #	52
49) 1,4-Dioxane	9.747	88	97	2.496	ug/l #	1
51) 4-Methyl-2-Pentanone	10.571	43	8733	2.825	ug/l	92
53) t-1,3-Dichloropropene	10.724	75	870	0.292	ug/l	89
54) cis-1,3-Dichloropropene	10.359	75	45888	14.918	ug/l #	65
56) Ethyl methacrylate	10.994	69	2070	0.728	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	6442	2.031	ug/l #	43
59) 2-Hexanone	11.206	43	88389	37.623	ug/l #	59
74) N-amyl acetate	12.482	43	1577	0.383	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	64121	25.811	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	64121	61.752	ug/l #	6

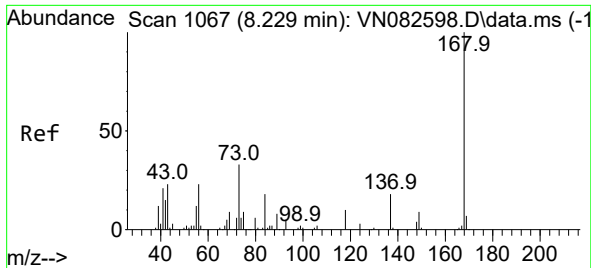
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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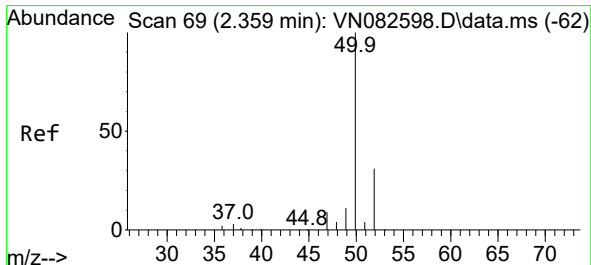
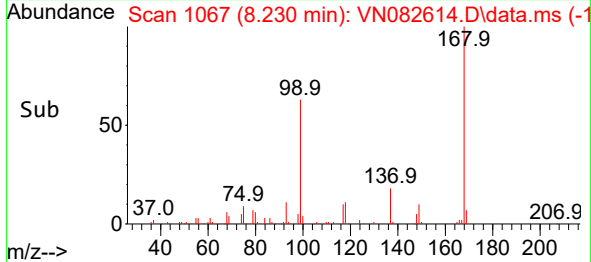
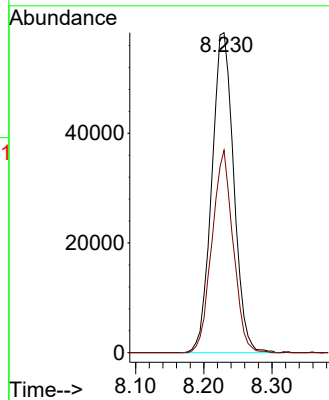
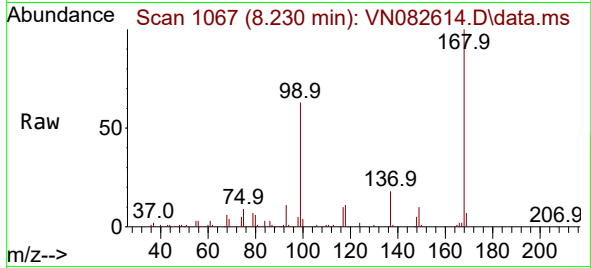




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

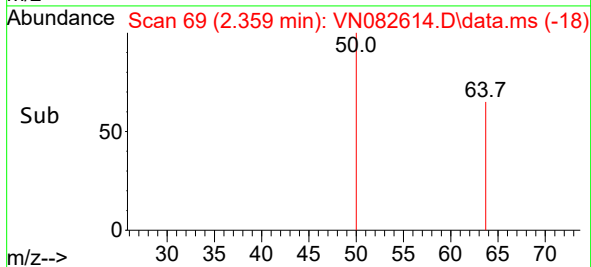
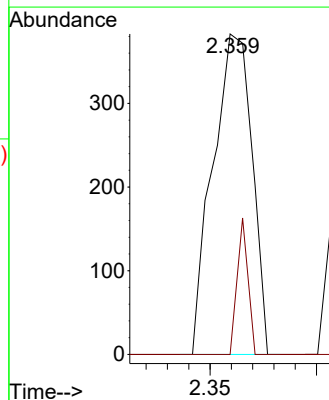
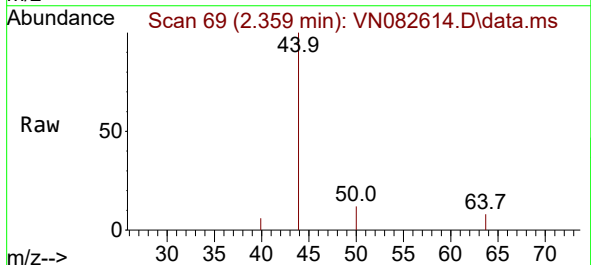
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

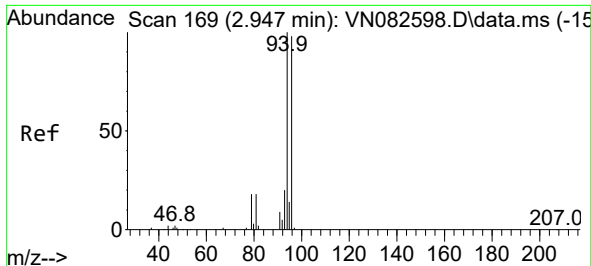
Tgt Ion:168 Resp: 130925
Ion Ratio Lower Upper
168 100
99 63.3 48.2 72.4



#3
Chloromethane
Concen: 0.224 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 50 Resp: 491
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

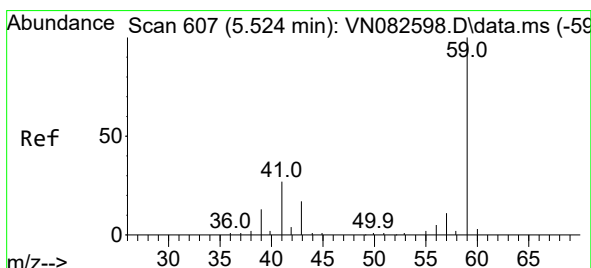
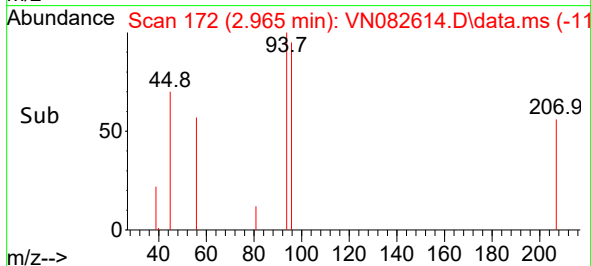
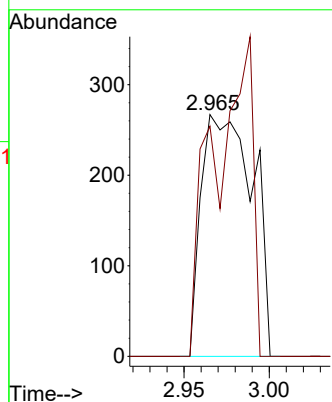
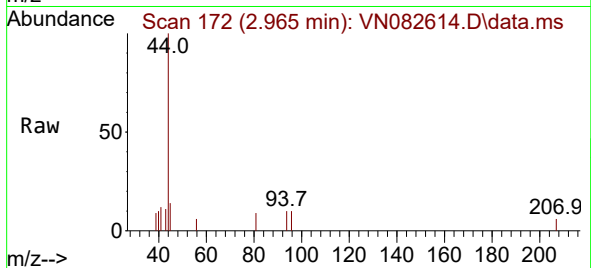




#5
Bromomethane
Concen: 0.418 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

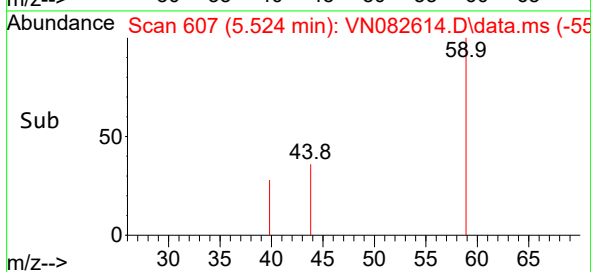
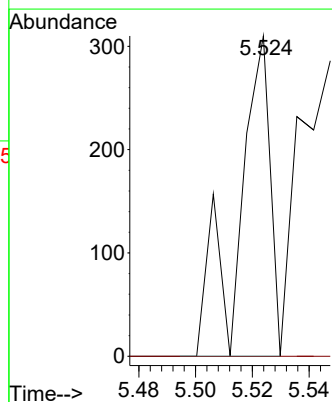
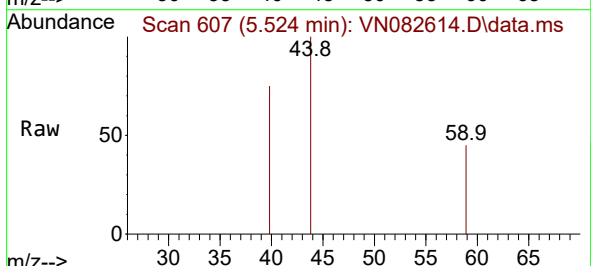
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

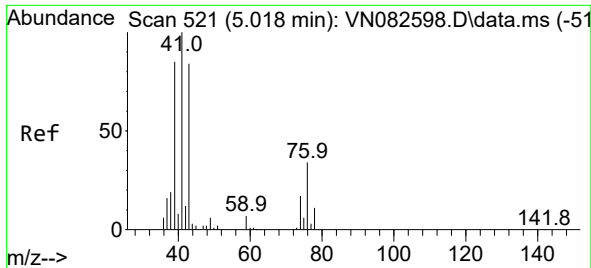
Tgt Ion: 94 Resp: 561
Ion Ratio Lower Upper
94 100
96 95.1 78.0 117.0



#11
Tert butyl alcohol
Concen: 0.701 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 59 Resp: 241
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

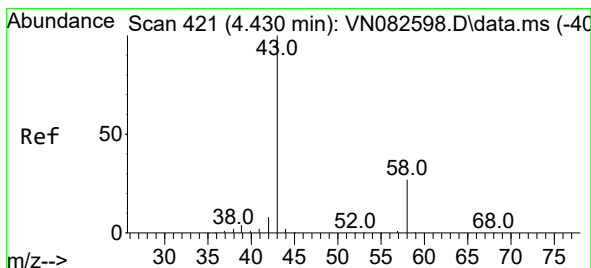
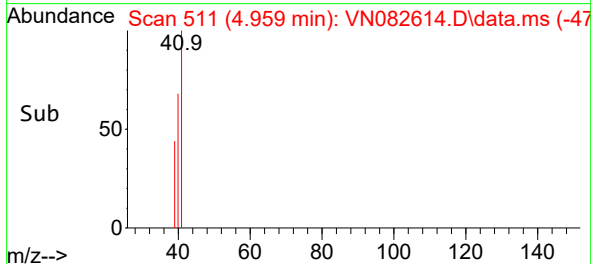
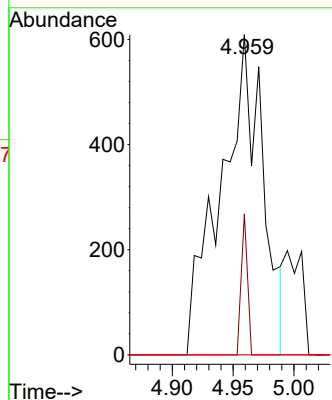
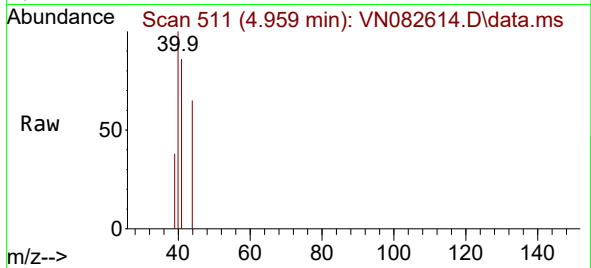




#14
 Allyl chloride
 Concen: 0.510 ug/l
 RT: 4.959 min Scan# 511
 Delta R.T. -0.059 min
 Lab File: VN082614.D
 Acq: 17 Jun 2024 17:23

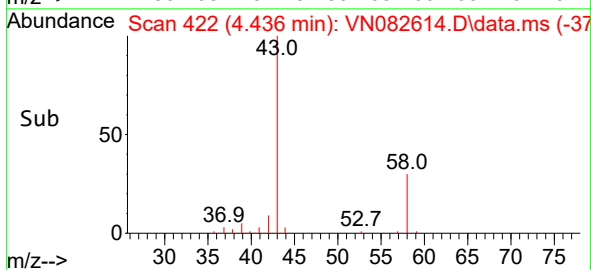
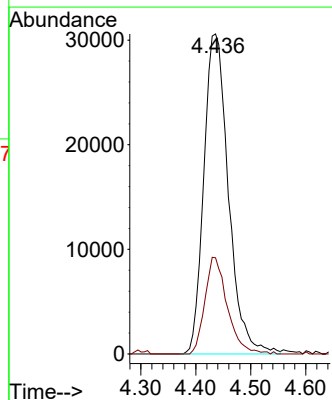
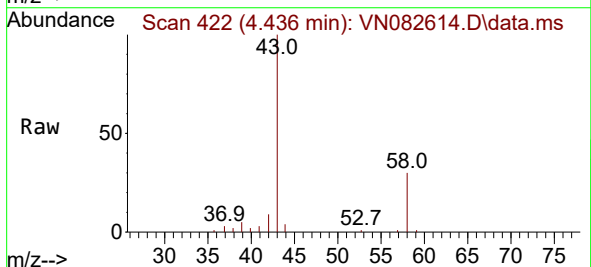
Instrument :
 MSVOA_N
 ClientSampleId :
 PB161507ZHE#01

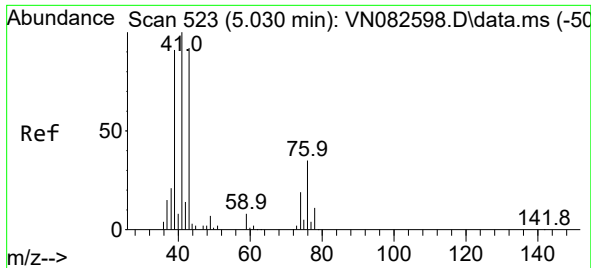
Tgt Ion: 41 Resp: 1454
 Ion Ratio Lower Upper
 41 100
 39 6.5 67.8 101.6#
 76 0.0 25.8 38.8#



#16
 Acetone
 Concen: 99.820 ug/l
 RT: 4.436 min Scan# 422
 Delta R.T. 0.006 min
 Lab File: VN082614.D
 Acq: 17 Jun 2024 17:23

Tgt Ion: 43 Resp: 95314
 Ion Ratio Lower Upper
 43 100
 58 30.1 21.8 32.6

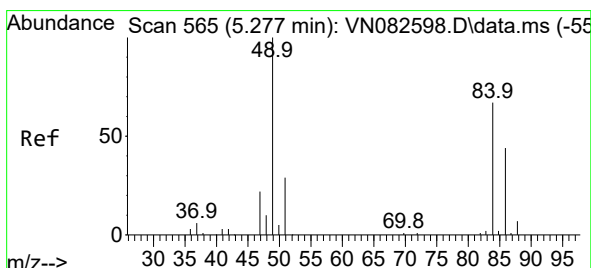
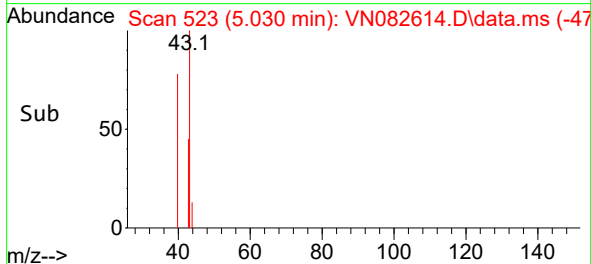
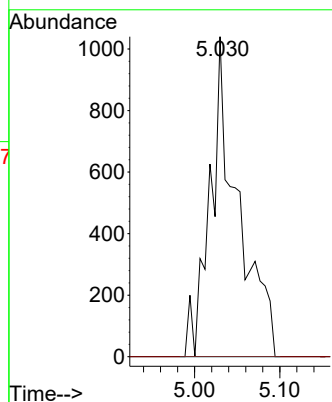
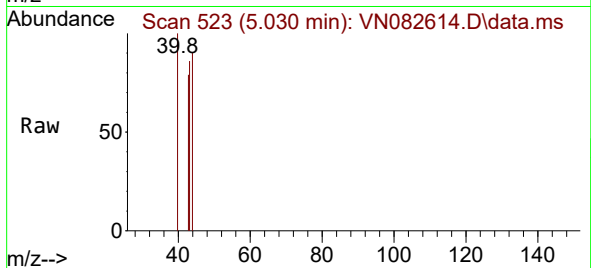




#18
Methyl Acetate
Concen: 1.002 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

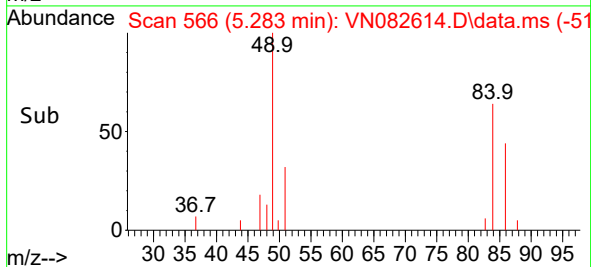
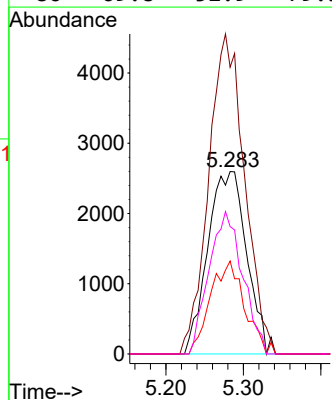
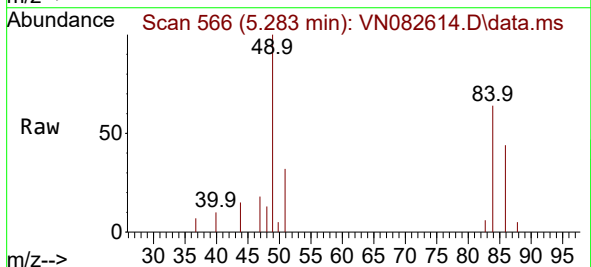
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

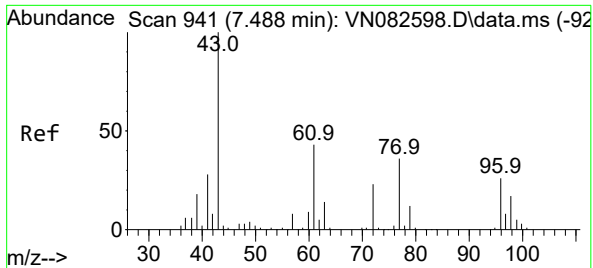
Tgt Ion: 43 Resp: 2341
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: 5.418 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 84 Resp: 9095
Ion Ratio Lower Upper
84 100
49 157.2 119.6 179.4
51 50.9 34.8 52.2
86 69.8 52.9 79.3

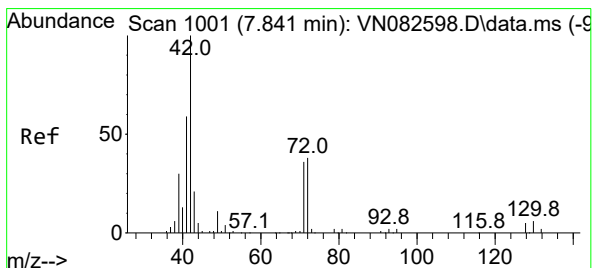
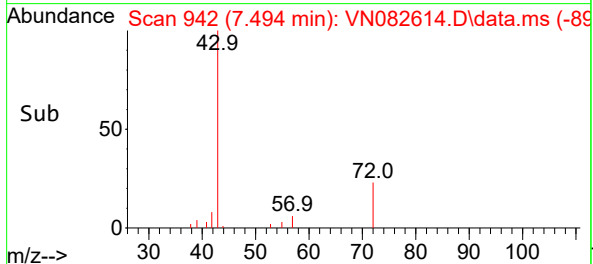
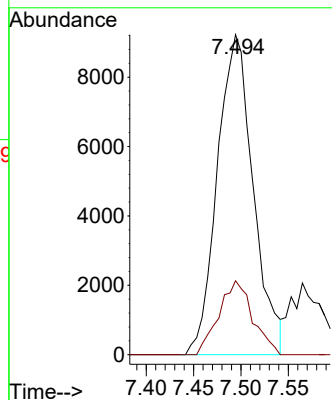
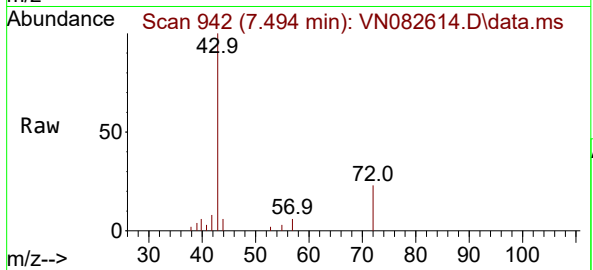




#25
2-Butanone
Concen: 17.922 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

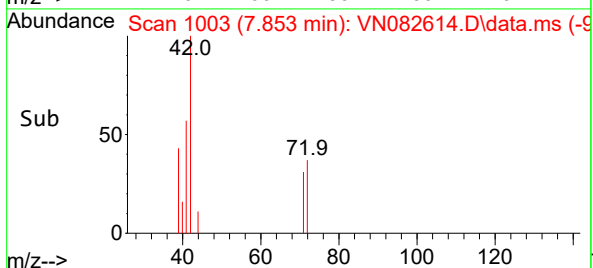
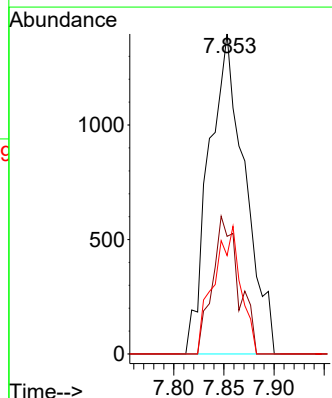
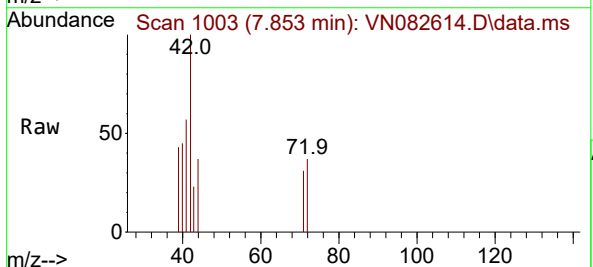
Instrument :
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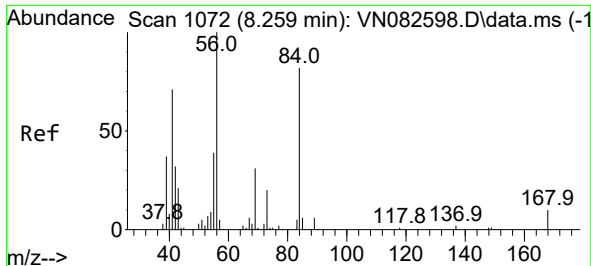
Tgt Ion: 43 Resp: 24324
Ion Ratio Lower Upper
43 100
72 24.4 18.2 27.2



#29
Tetrahydrofuran
Concen: 4.202 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

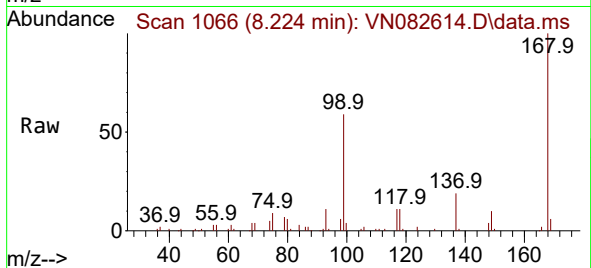
Tgt Ion: 42 Resp: 3491
Ion Ratio Lower Upper
42 100
72 31.4 30.0 45.0
71 30.1 28.3 42.5



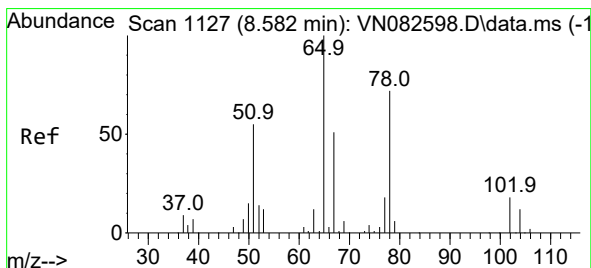
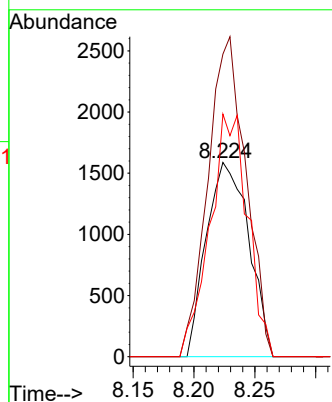
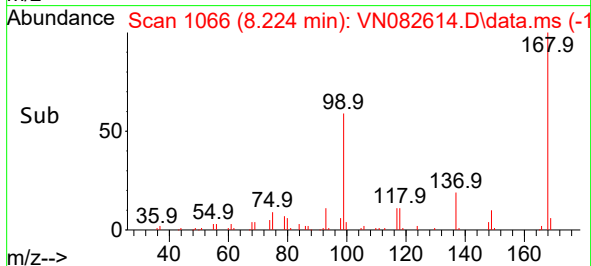


#31
Cyclohexane
Concen: 1.274 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Instrument :
MSVOA_N
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PB161507ZHE#01

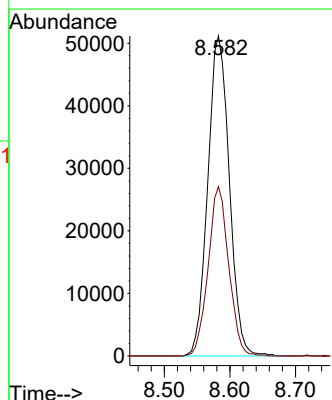
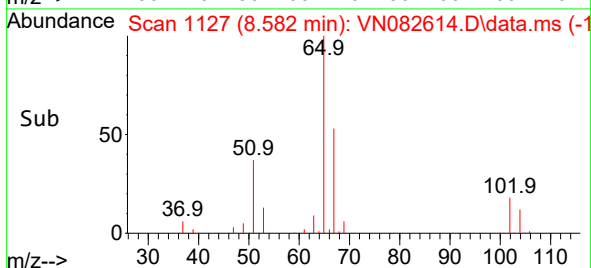
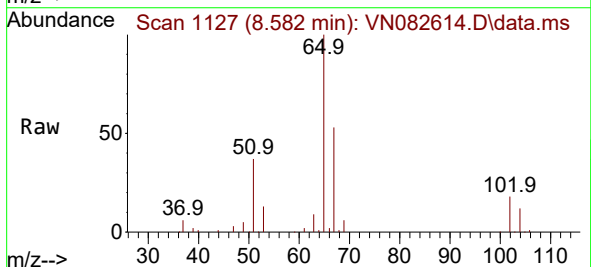


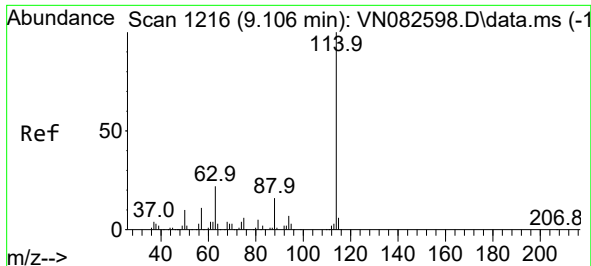
Tgt Ion: 56 Resp: 3859
Ion Ratio Lower Upper
56 100
69 155.8 24.5 36.7#
84 124.9 66.0 99.0#



#33
1,2-Dichloroethane-d4
Concen: 55.626 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 65 Resp: 116791
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.4

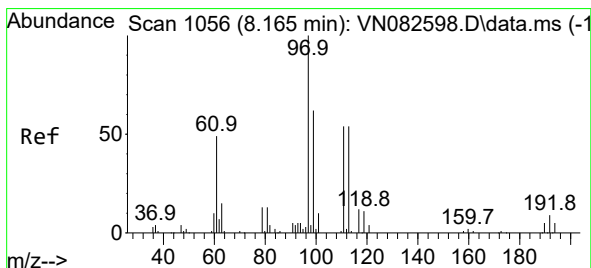
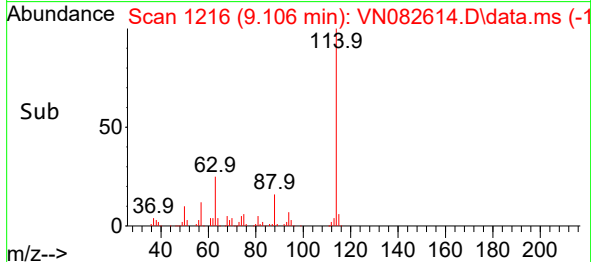
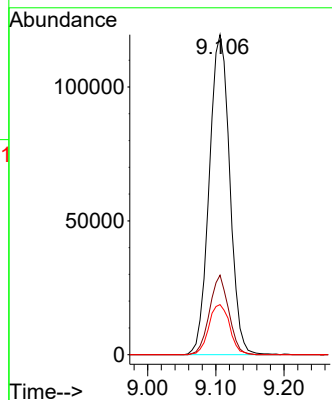
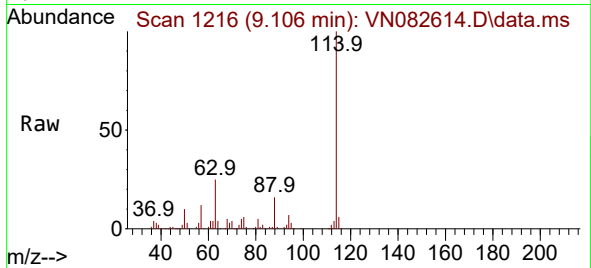




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

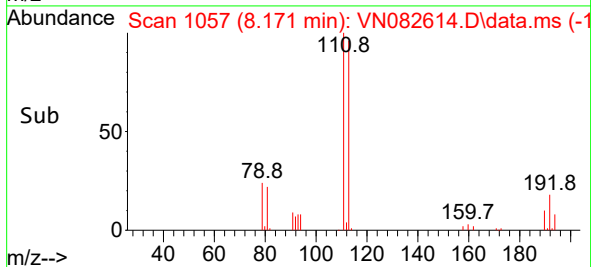
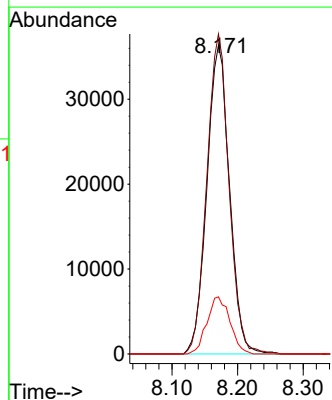
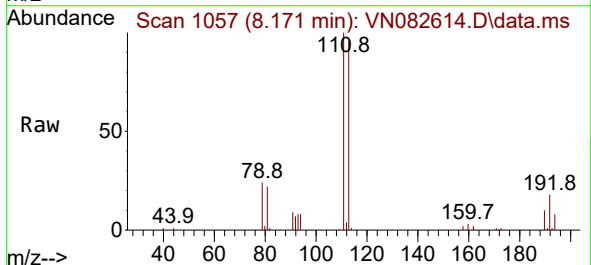
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

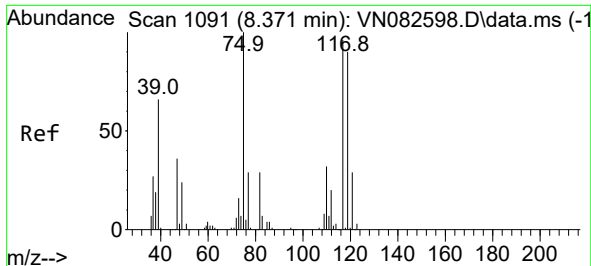
Tgt Ion:114 Resp: 249631
Ion Ratio Lower Upper
114 100
63 24.9 0.0 44.6
88 15.6 0.0 31.4



#35
Dibromofluoromethane
Concen: 51.428 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

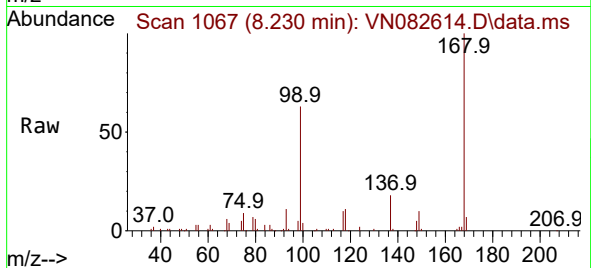
Tgt Ion:113 Resp: 87092
Ion Ratio Lower Upper
113 100
111 101.6 82.4 123.6
192 18.8 14.9 22.3



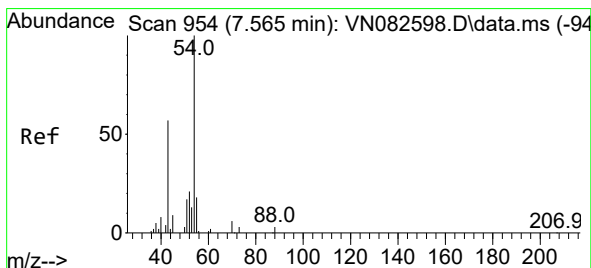
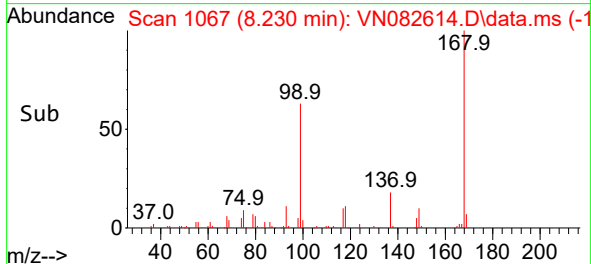
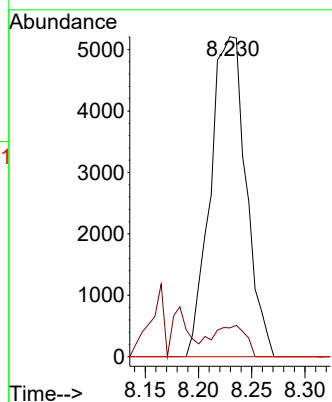


#36
1,1-Dichloropropene
Concen: 4.793 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

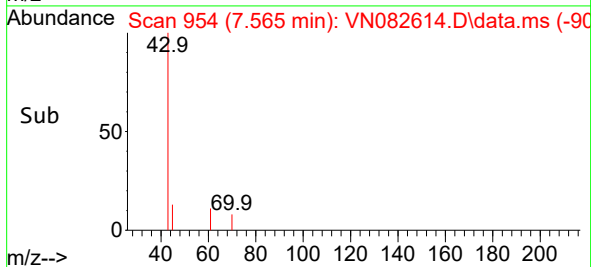
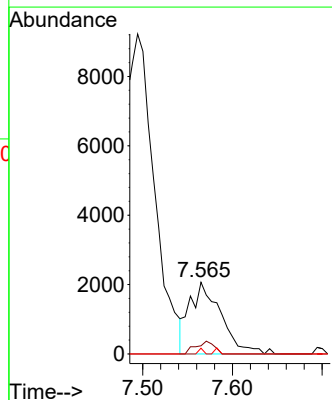
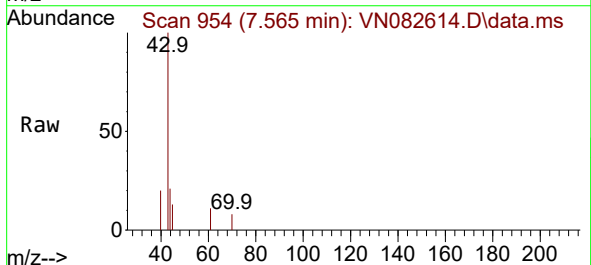


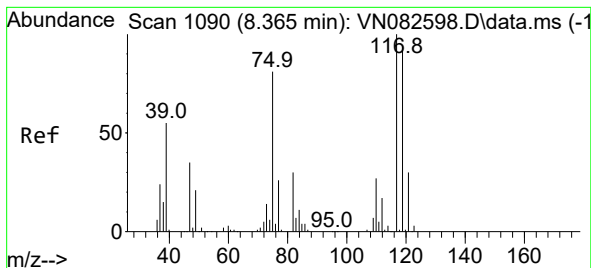
Tgt Ion: 75 Resp: 12134
Ion Ratio Lower Upper
75 100
110 9.3 16.3 48.9#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 1.558 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 43 Resp: 5023
Ion Ratio Lower Upper
43 100
61 10.4 9.3 13.9
70 1.2 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.996 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN082614.D

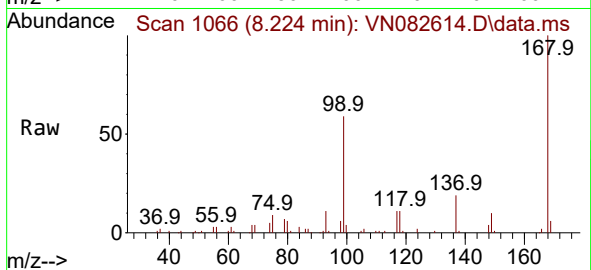
Acq: 17 Jun 2024 17:23

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#01



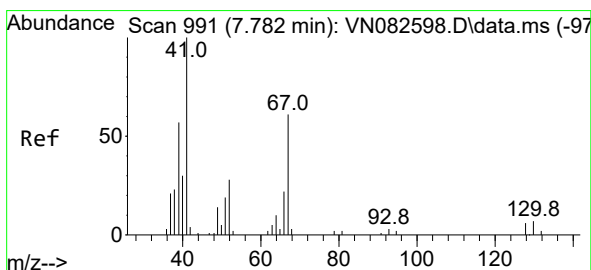
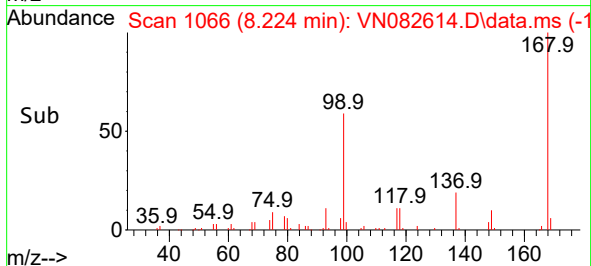
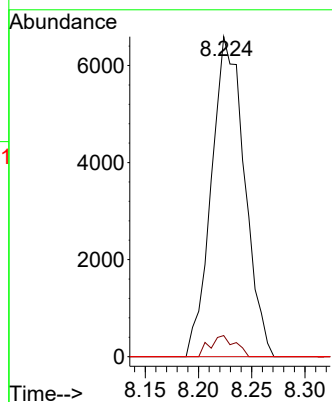
Tgt Ion:117 Resp: 14254

Ion Ratio Lower Upper

117 100

119 6.6 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 1.188 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.065 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

Tgt Ion: 41 Resp: 1959

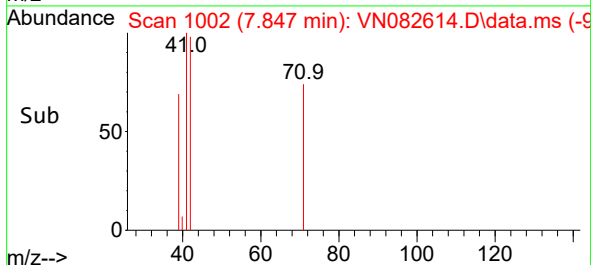
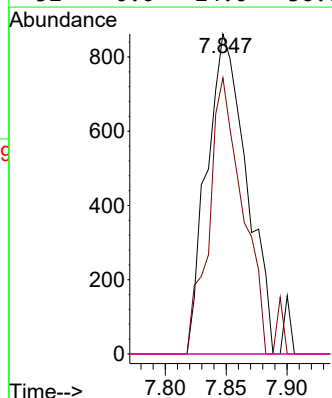
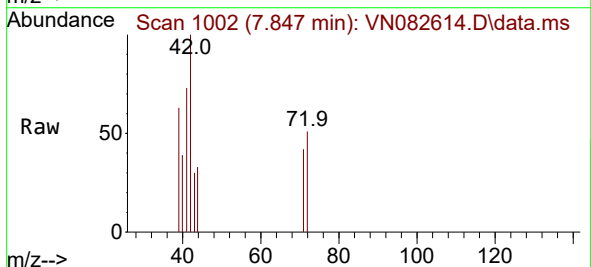
Ion Ratio Lower Upper

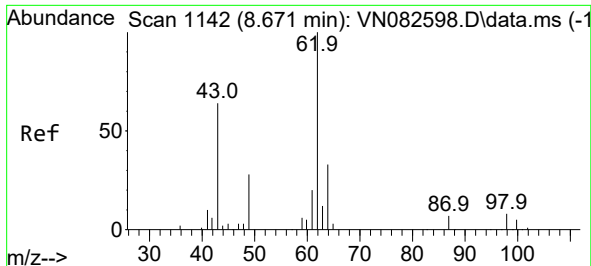
41 100

39 72.7 45.5 68.3#

67 0.0 50.5 75.7#

52 0.0 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

Instrument :

MSVOA_N

ClientSampleId :

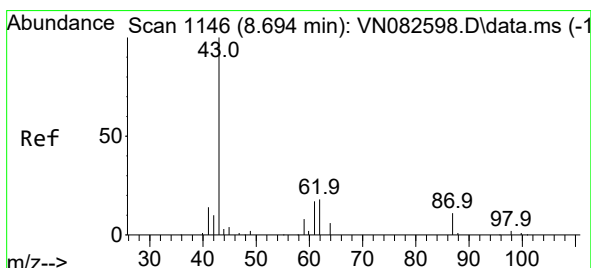
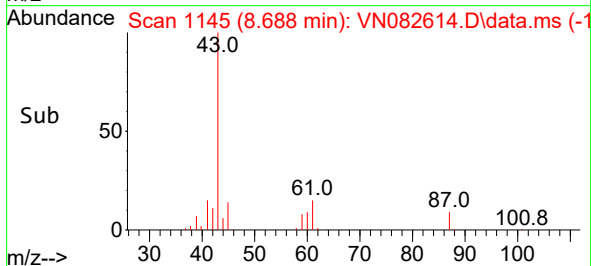
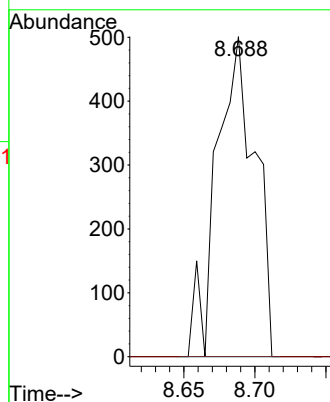
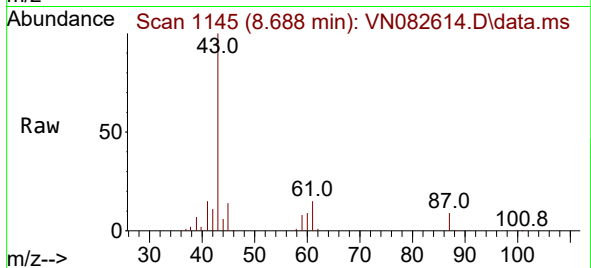
PB161507ZHE#01

Tgt Ion: 62 Resp: 939

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 41.153 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

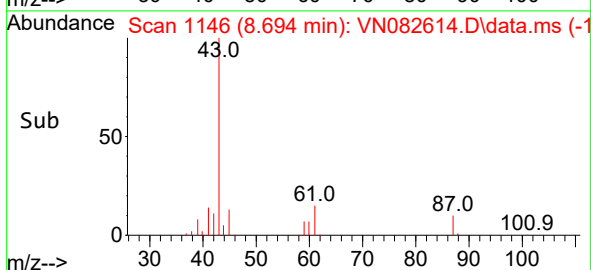
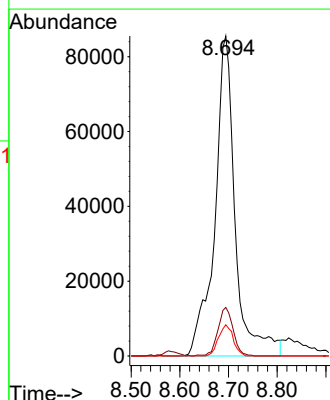
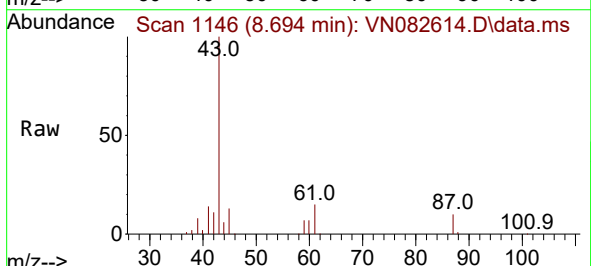
Tgt Ion: 43 Resp: 248009

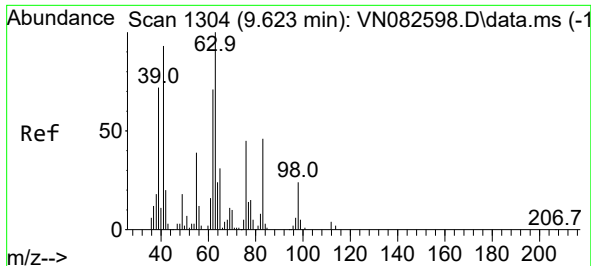
Ion Ratio Lower Upper

43 100

61 11.3 17.8 26.6#

87 7.0 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.769 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.124 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

Instrument :

MSVOA_N

ClientSampleId :

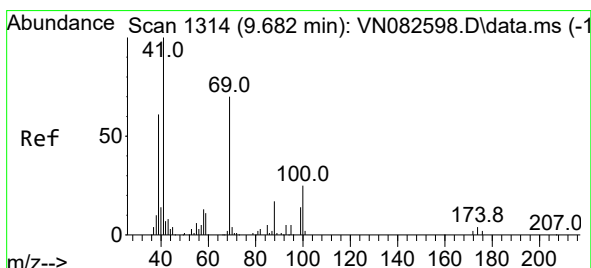
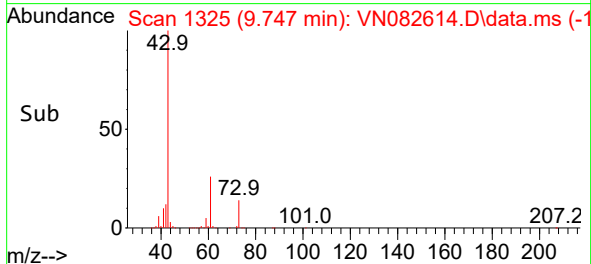
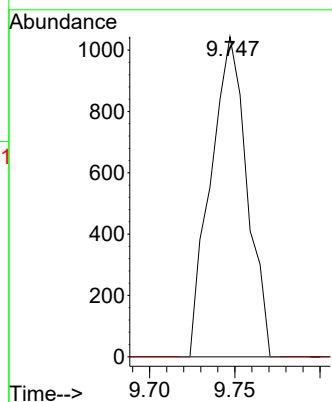
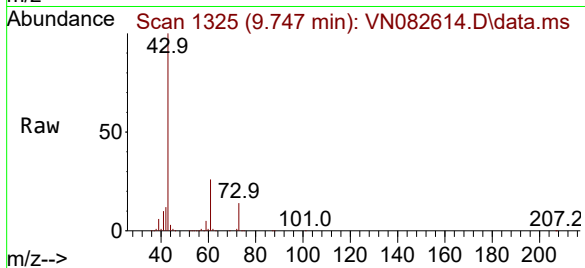
PB161507ZHE#01

Tgt Ion: 63 Resp: 1548

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 62.416 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

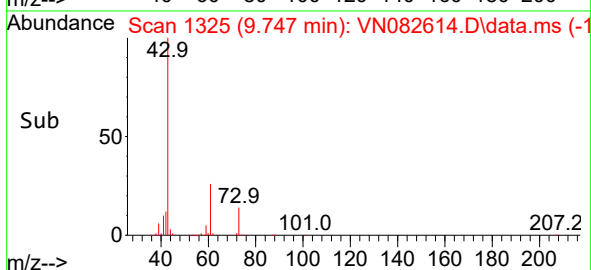
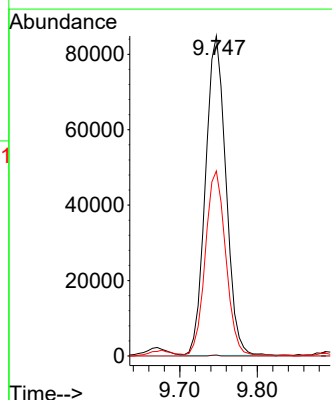
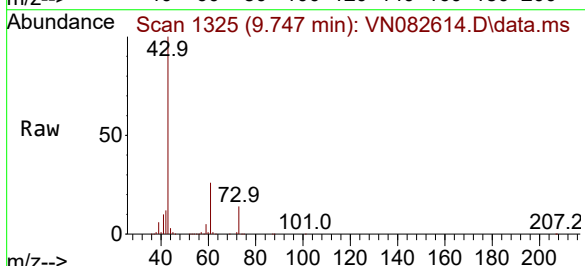
Tgt Ion: 41 Resp: 155066

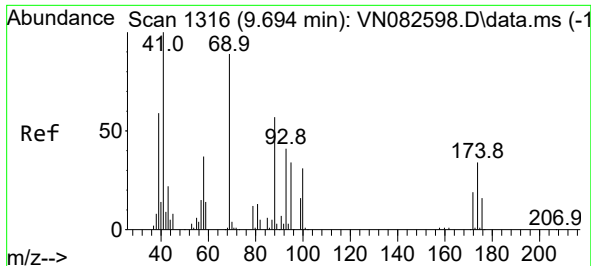
Ion Ratio Lower Upper

41 100

69 0.1 56.3 84.5#

39 58.2 50.3 75.5

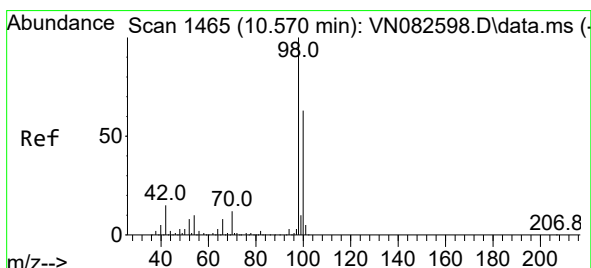
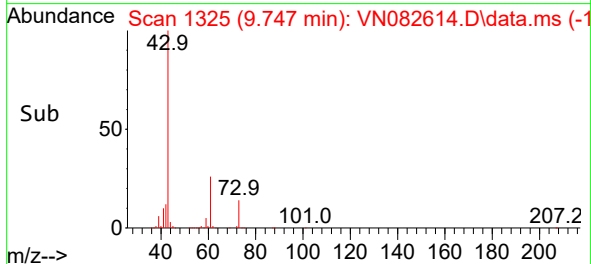
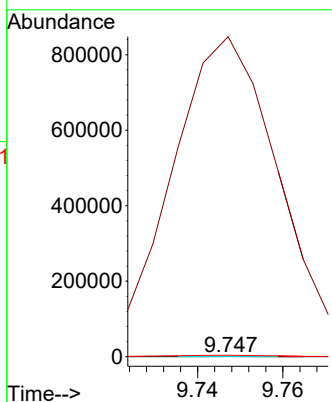
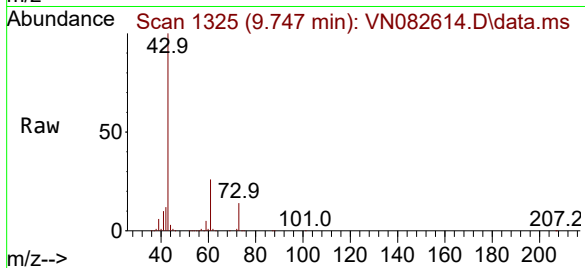




#49
1,4-Dioxane
Concen: 2.496 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

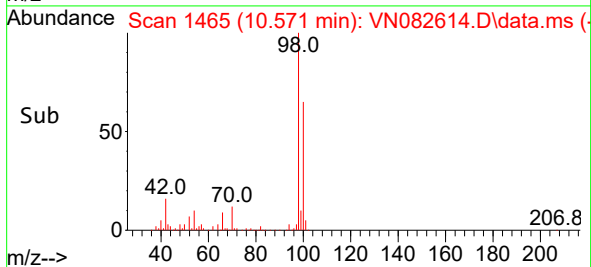
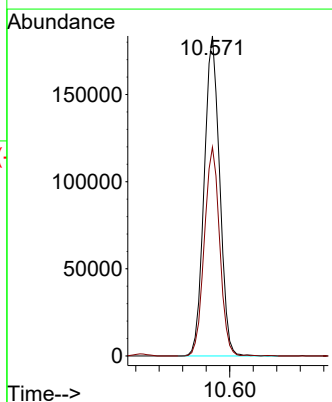
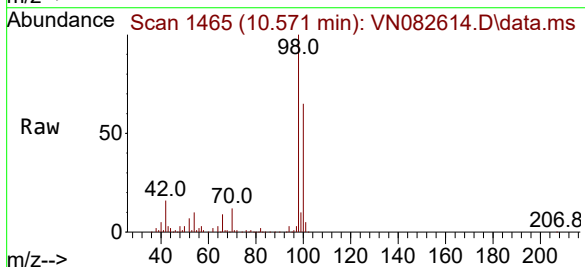
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

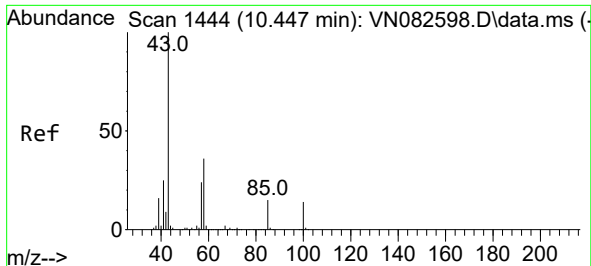
Tgt Ion: 88 Resp: 97
Ion Ratio Lower Upper
88 100
43 1567876.3 27.8 41.8#
58 7377.3 59.4 89.0#



#50
Toluene-d8
Concen: 52.124 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 98 Resp: 333806
Ion Ratio Lower Upper
98 100
100 64.8 51.5 77.3

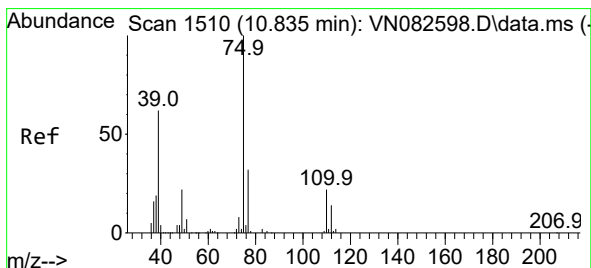
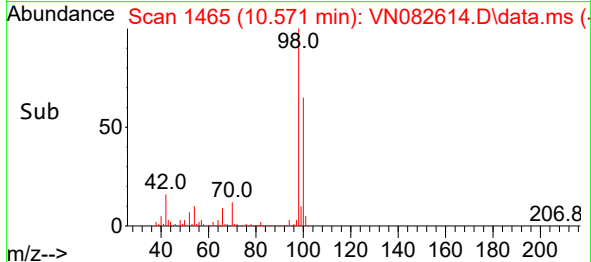
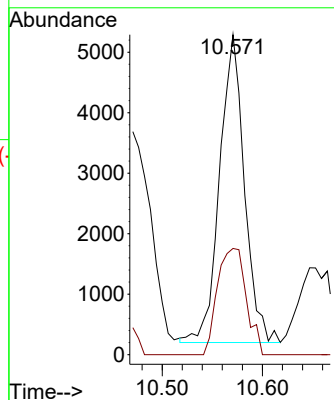
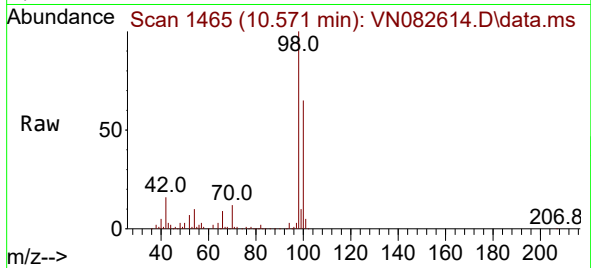




#51
4-Methyl-2-Pentanone
Concen: 2.825 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.124 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

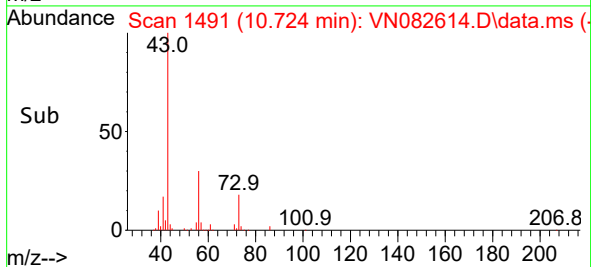
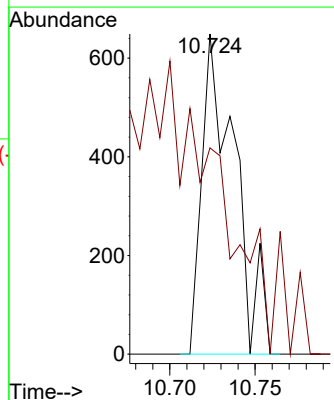
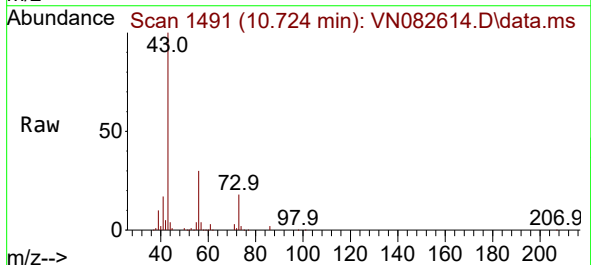
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

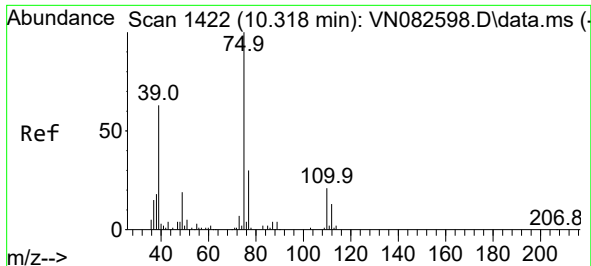
Tgt Ion: 43 Resp: 8733
Ion Ratio Lower Upper
43 100
58 40.0 28.2 42.4



#53
t-1,3-Dichloropropene
Concen: 0.292 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 75 Resp: 870
Ion Ratio Lower Upper
75 100
77 26.0 25.7 38.5

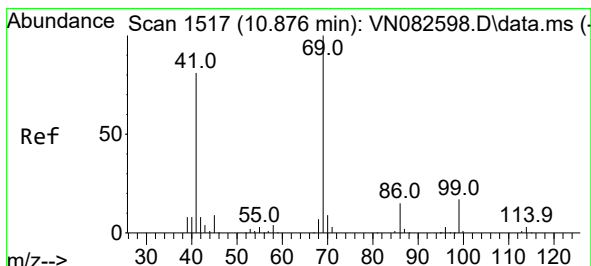
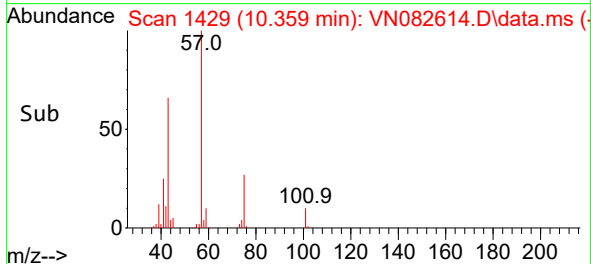
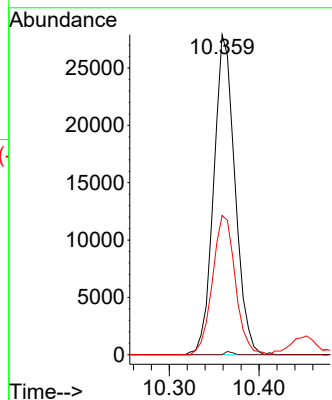
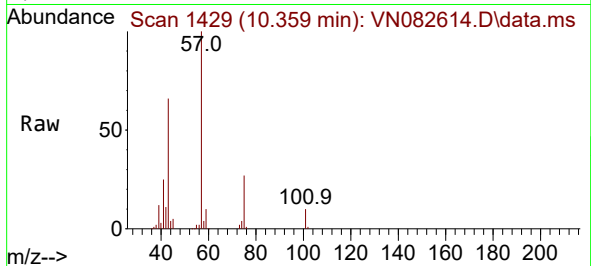




#54
cis-1,3-Dichloropropene
Concen: 14.918 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

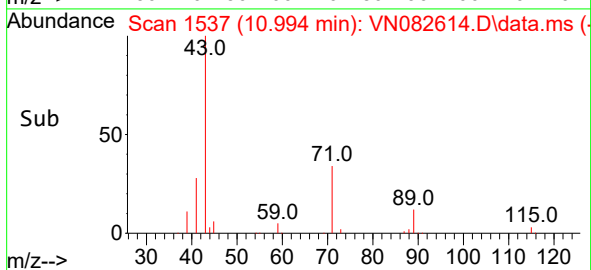
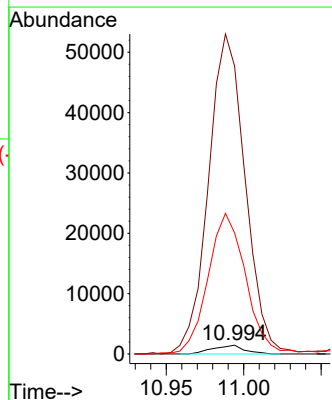
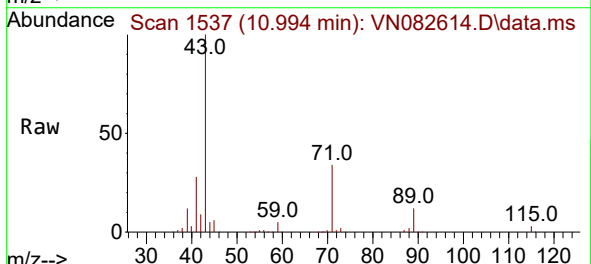
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

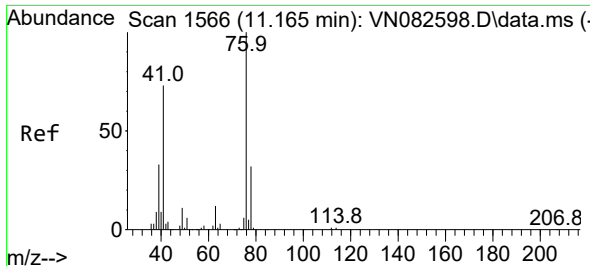
Tgt Ion: 75 Resp: 45888
Ion Ratio Lower Upper
75 100
77 0.0 24.3 36.5#
39 43.5 50.5 75.7#



#56
Ethyl methacrylate
Concen: 0.728 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.118 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 69 Resp: 2070
Ion Ratio Lower Upper
69 100
41 4232.1 63.4 95.2#
39 1919.5 37.4 56.0#

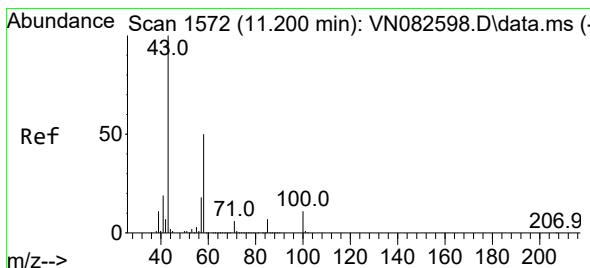
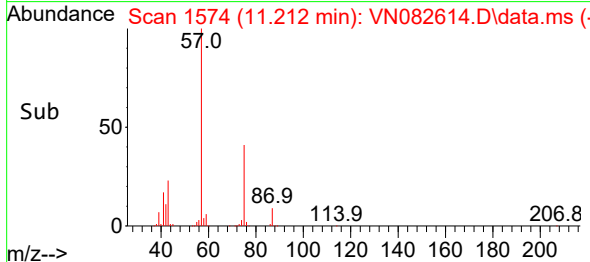
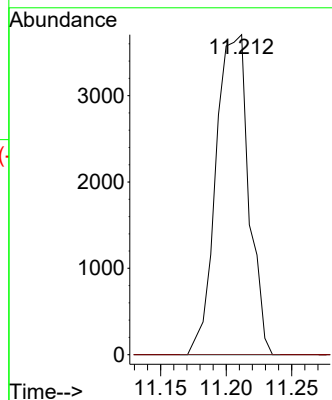
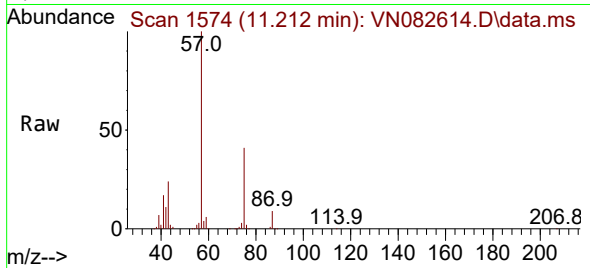




#57
1,3-Dichloropropane
Concen: 2.031 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

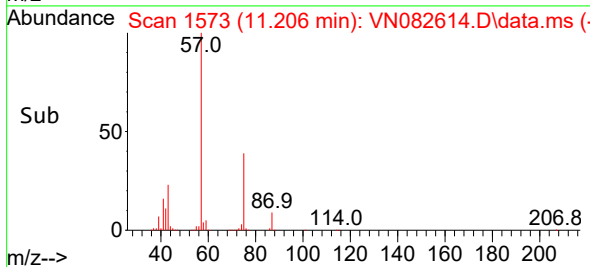
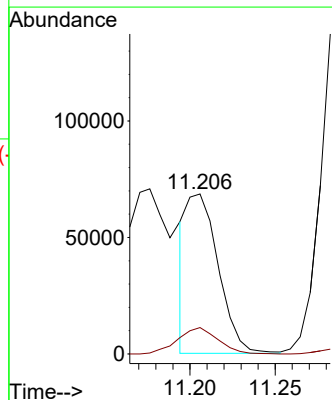
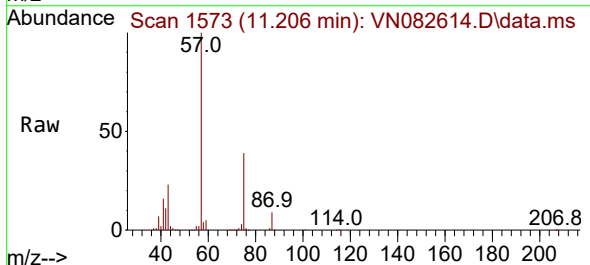
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

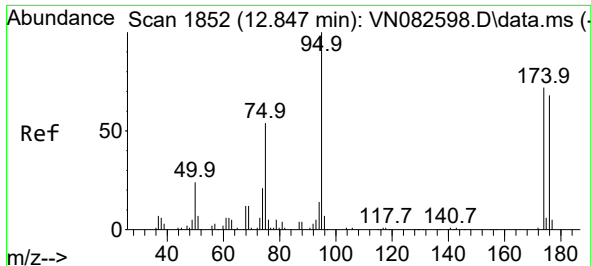
Tgt Ion: 76 Resp: 6442
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 37.623 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 43 Resp: 88389
Ion Ratio Lower Upper
43 100
58 21.2 24.6 73.8#

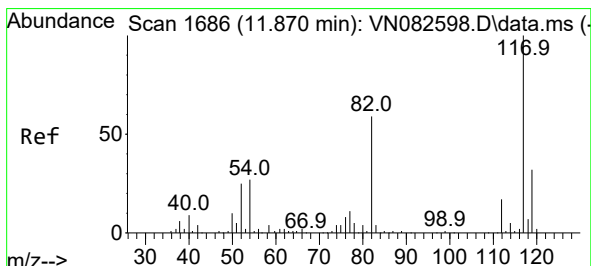
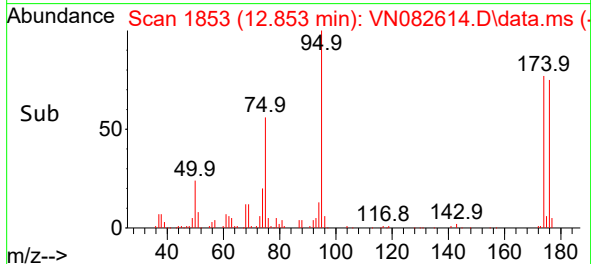
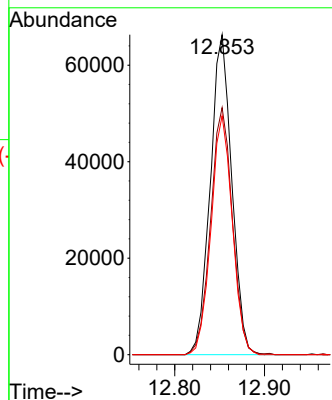
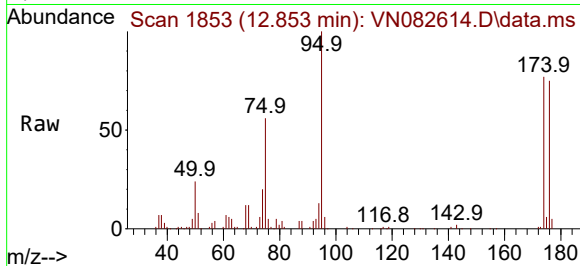




#62
4-Bromofluorobenzene
Concen: 49.925 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

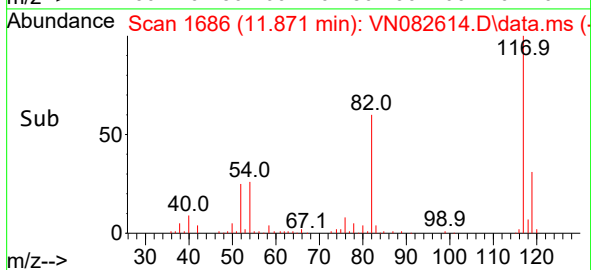
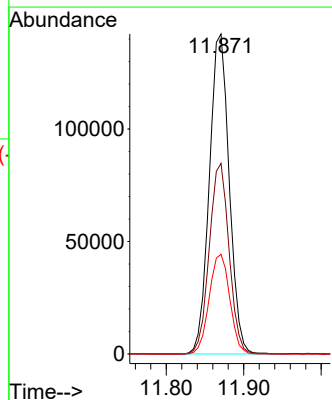
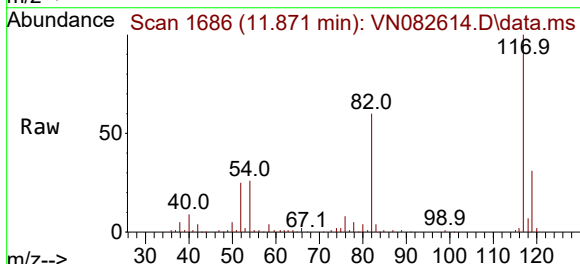
Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

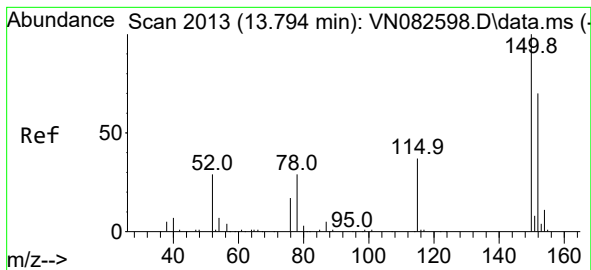
Tgt Ion: 95 Resp: 110230
Ion Ratio Lower Upper
95 100
174 78.5 0.0 159.2
176 73.9 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 117 Resp: 254109
Ion Ratio Lower Upper
117 100
82 59.6 47.5 71.3
119 31.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

Instrument :

MSVOA_N

ClientSampleId :

PB161507ZHE#01

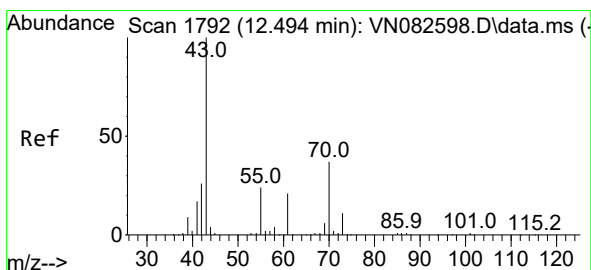
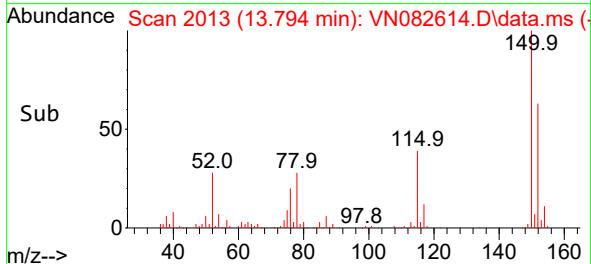
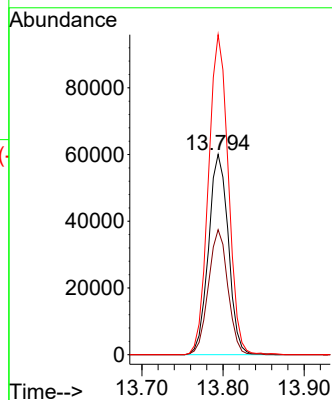
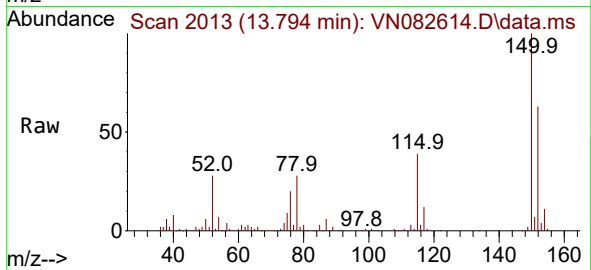
Tgt Ion:152 Resp: 101569

Ion Ratio Lower Upper

152 100

115 61.3 30.6 91.6

150 160.0 0.0 348.6



#74

N-ethyl acetate

Concen: 0.383 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.012 min

Lab File: VN082614.D

Acq: 17 Jun 2024 17:23

Tgt Ion: 43 Resp: 1577

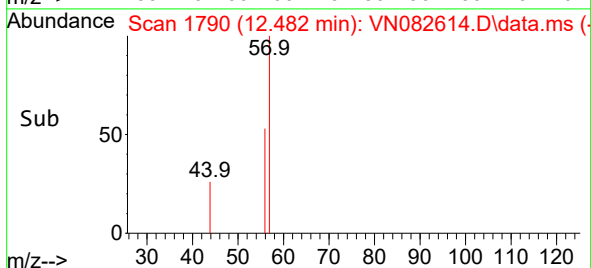
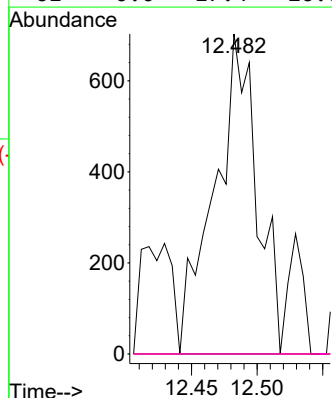
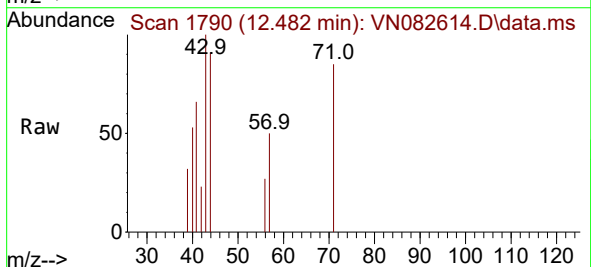
Ion Ratio Lower Upper

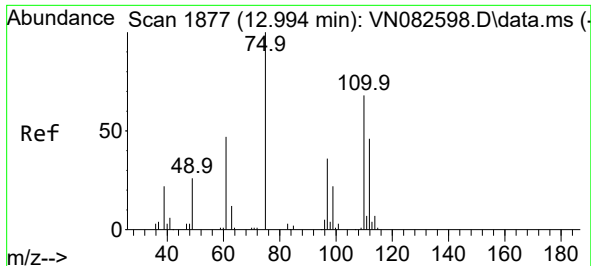
43 100

70 0.0 29.8 44.6#

55 0.0 18.7 28.1#

61 0.0 17.4 26.0#

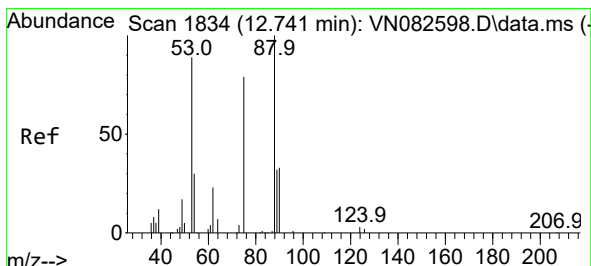
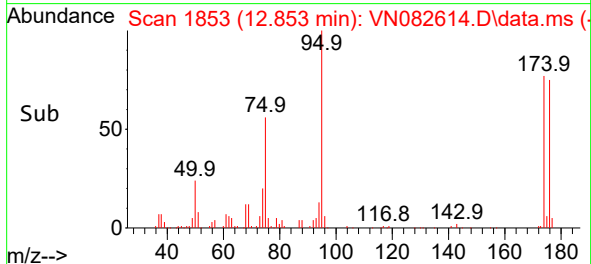
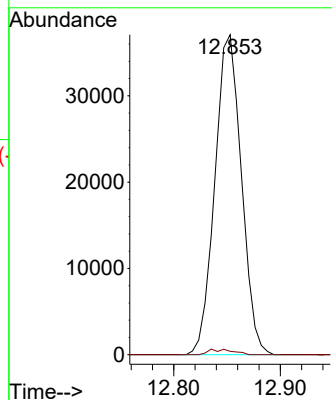
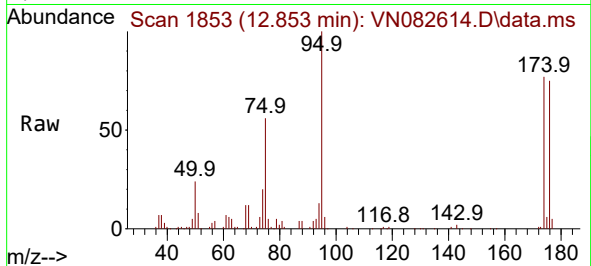




#76
1,2,3-Trichloropropane
Concen: 25.811 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Instrument :
MSVOA_N
ClientSampleId :
PB161507ZHE#01

Tgt Ion: 75 Resp: 64121
Ion Ratio Lower Upper
75 100
77 1.5 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.752 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN082614.D
Acq: 17 Jun 2024 17:23

Tgt Ion: 75 Resp: 64121
Ion Ratio Lower Upper
75 100
53 0.2 88.4 132.6#
89 0.0 36.3 54.5#

