

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093023\
 Data File : VN079392.D
 Acq On : 30 Sep 2023 17:22
 Operator : JC\MD
 Sample : PB155992ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 02 01:58:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

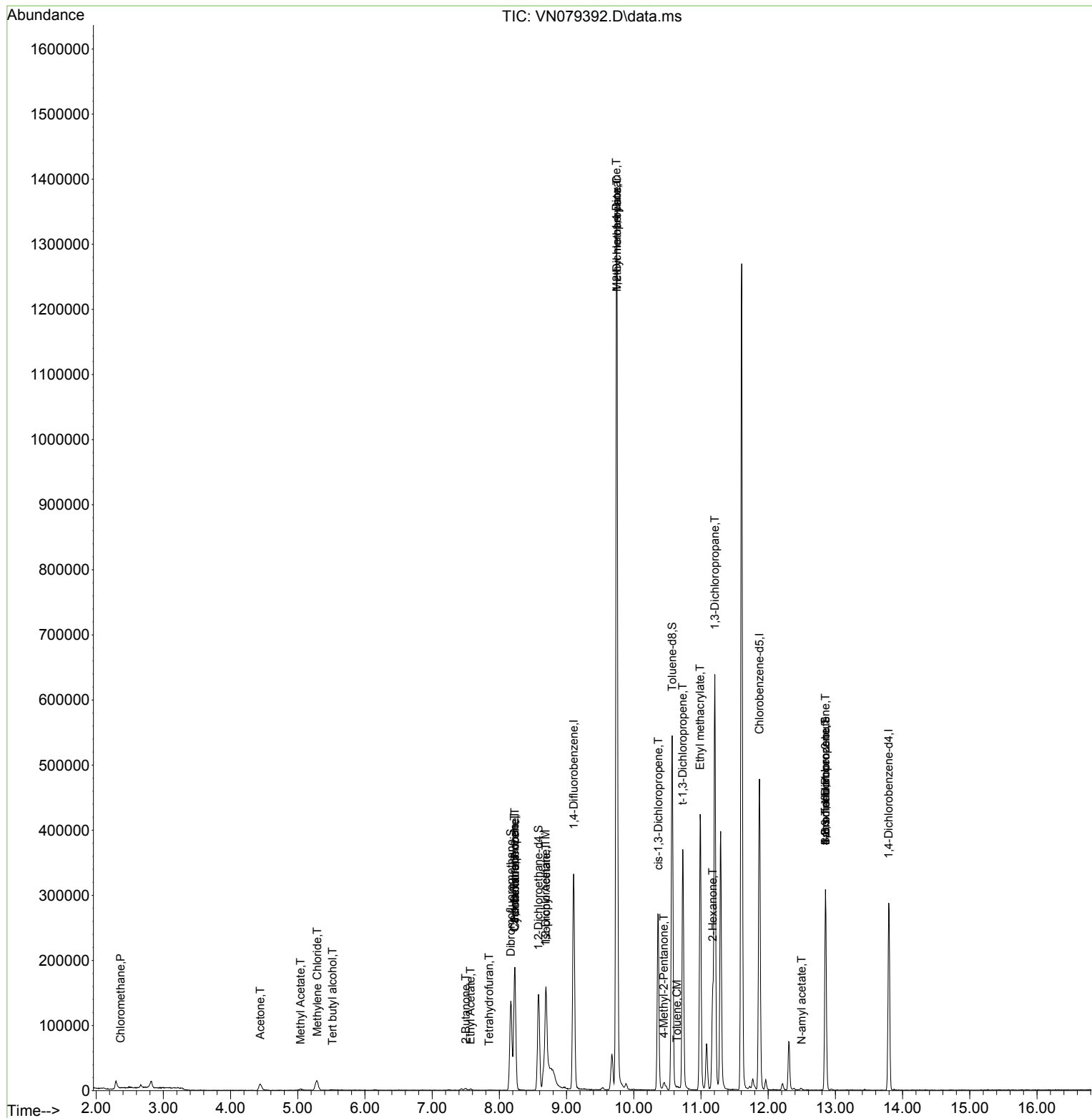
Internal Standards						
1) Pentafluorobenzene	8.230	168	130390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	278333	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	276931	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	74858	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	122209	69.431	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 138.860%#	
35) Dibromofluoromethane	8.171	113	97698	52.769	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.540%	
50) Toluene-d8	10.571	98	364520	53.621	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.240%	
62) 4-Bromofluorobenzene	12.853	95	103395	47.681	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 95.360%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	544	0.321	ug/l #	42
6) Chloroethane	3.112	64	487	Below Cal	#	43
11) Tert butyl alcohol	5.518	59	476	1.465	ug/l #	72
16) Acetone	4.442	43	20022	26.784	ug/l	99
18) Methyl Acetate	5.042	43	4313	1.404	ug/l #	61
20) Methylene Chloride	5.289	84	11931	6.559	ug/l #	80
25) 2-Butanone	7.500	43	4452	4.105	ug/l #	87
29) Tetrahydrofuran	7.847	42	372	0.539	ug/l #	20
31) Cyclohexane	8.236	56	3409	1.326	ug/l #	23
36) 1,1-Dichloropropene	8.230	75	12674	4.441	ug/l #	46
37) Ethyl Acetate	7.571	43	3707	1.302	ug/l #	74
38) Carbon Tetrachloride	8.224	117	14032	4.752	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1162	0.386	ug/l #	73
43) Isopropyl Acetate	8.694	43	269785	58.088	ug/l #	66
45) 1,2-Dichloropropane	9.747	63	1780	0.821	ug/l #	45
48) Methyl methacrylate	9.747	41	130319	62.644	ug/l #	29
49) 1,4-Dioxane	9.741	88	67	1.566	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12679	4.703	ug/l #	67
52) Toluene	10.641	92	1329	0.248	ug/l	98
53) t-1,3-Dichloropropene	10.729	75	1107	0.348	ug/l #	75
54) cis-1,3-Dichloropropene	10.365	75	44921	13.213	ug/l #	69
56) Ethyl methacrylate	10.988	69	2073	0.697	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6157	1.691	ug/l #	42
59) 2-Hexanone	11.177	43	127922	65.510	ug/l #	19
71) Bromoform	12.853	173	946	0.545	ug/l #	1
74) N-amyl acetate	12.500	43	1949	0.754	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	56897	28.201	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	56897	77.532	ug/l #	15

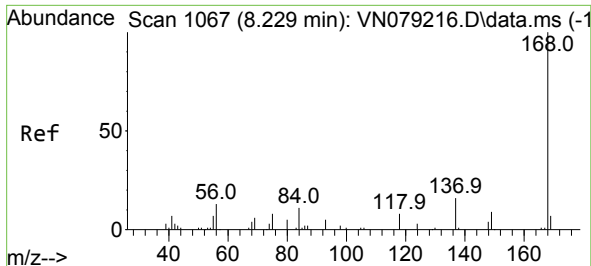
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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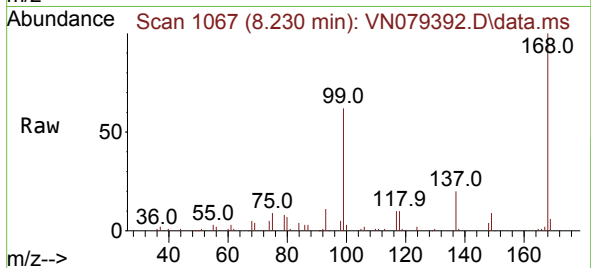
Quant Time: Oct 02 01:58:54 2023
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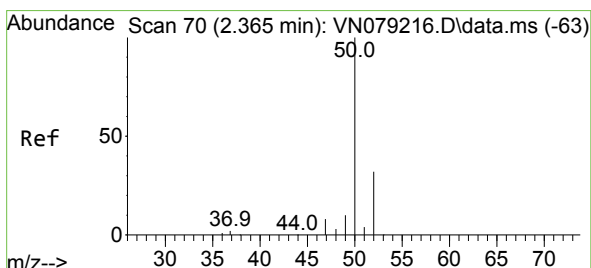
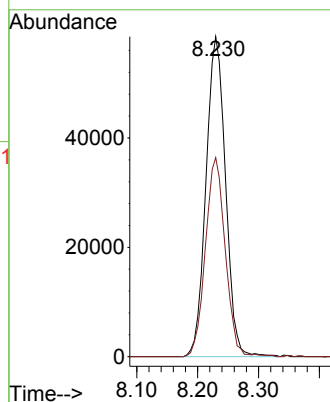
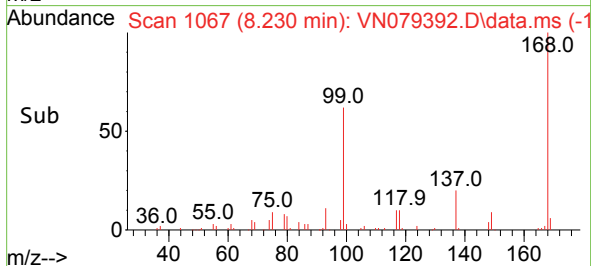


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Instrument :
MSVOA_N
ClientSampleId :

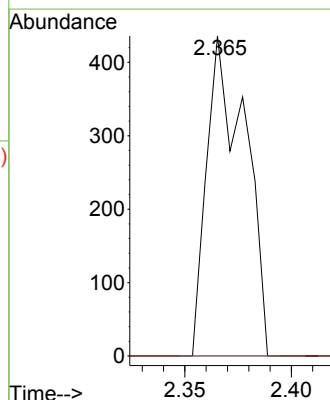
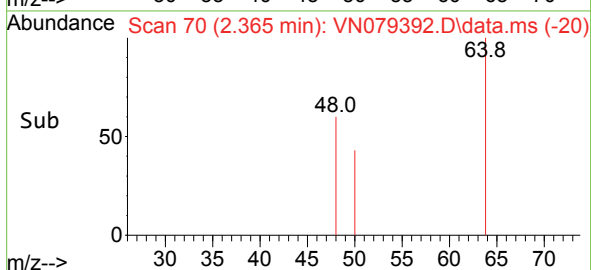
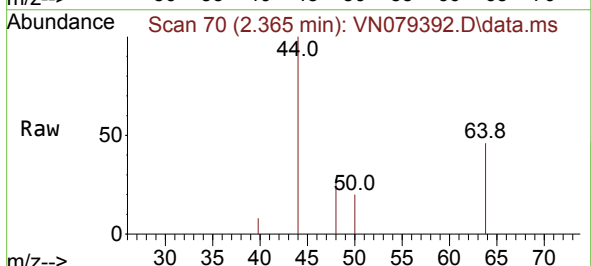


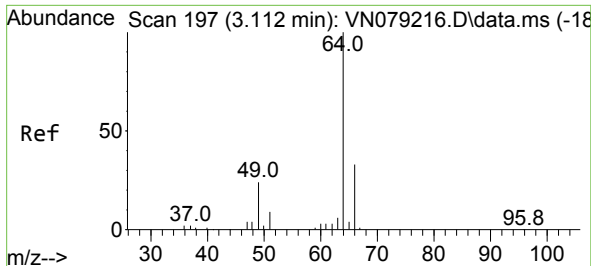
Tgt Ion:168 Resp: 130390
Ion Ratio Lower Upper
168 100
99 62.2 53.0 79.6



#3
Chloromethane
Concen: 0.321 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion: 50 Resp: 544
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

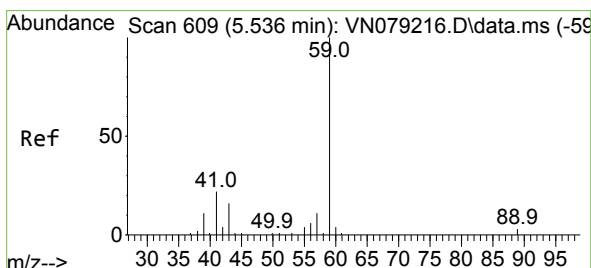
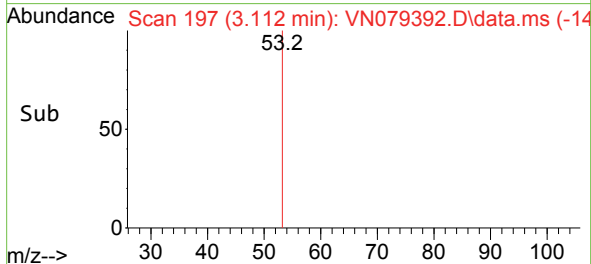
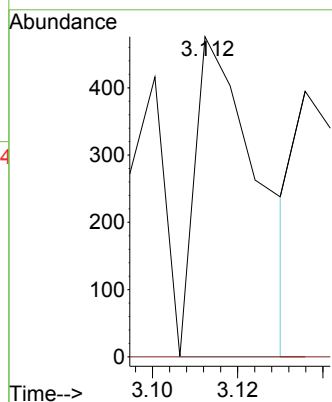
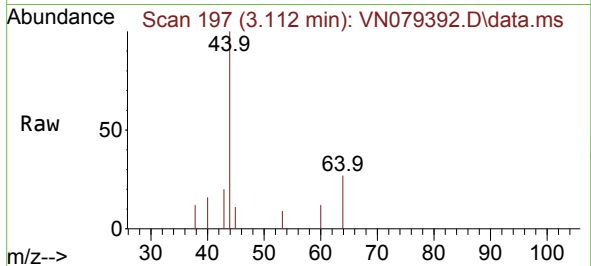




#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

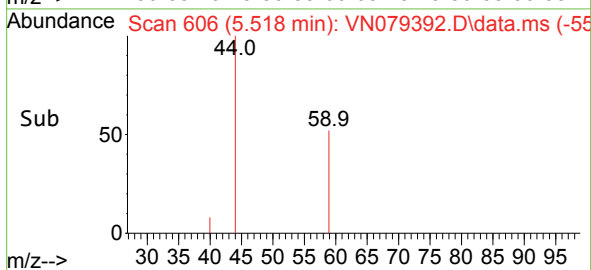
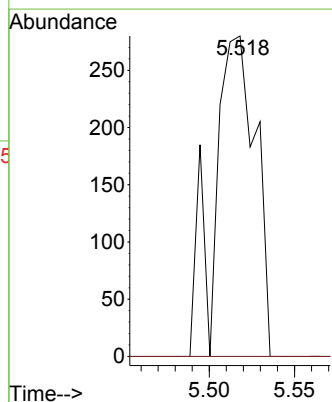
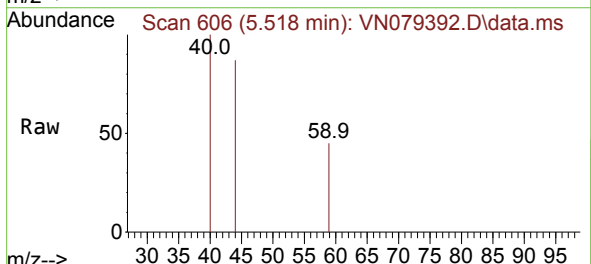
Instrument :
MSVOA_N
ClientSampleId :

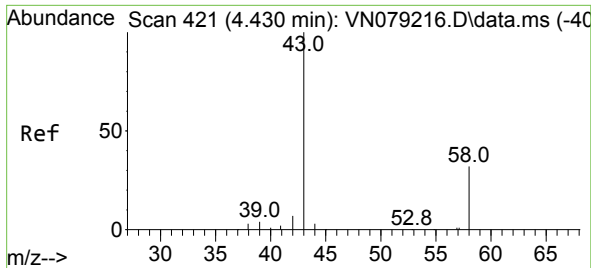
Tgt Ion: 64 Resp: 487
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.465 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.024 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion: 59 Resp: 476
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

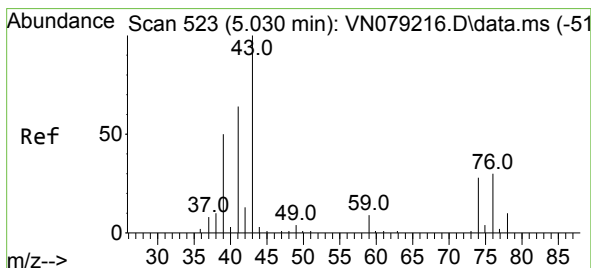
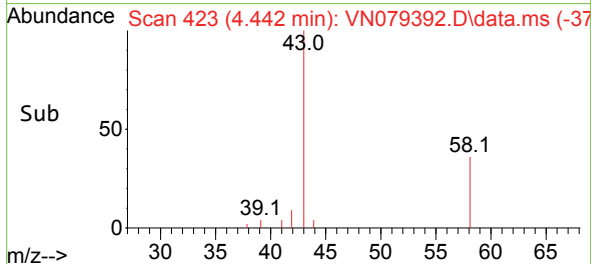
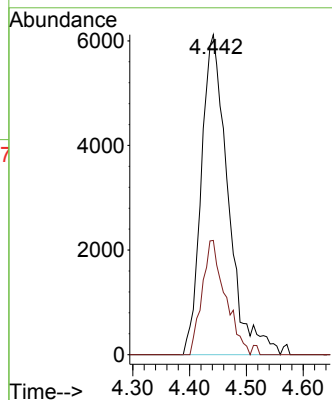
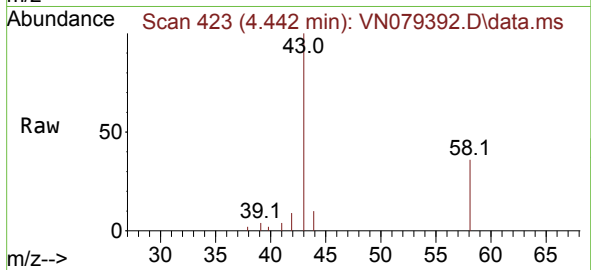




#16
Acetone
Concen: 26.784 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

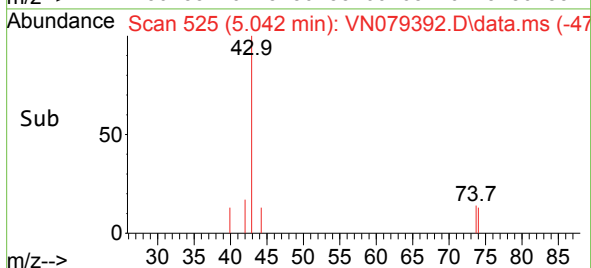
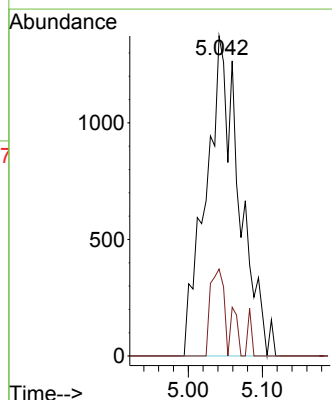
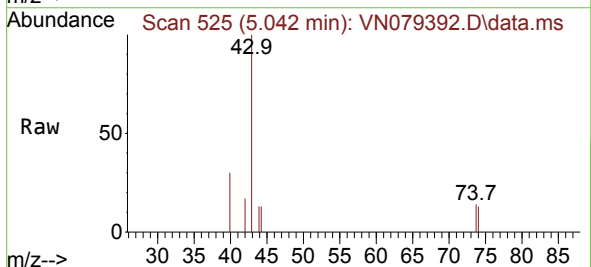
Instrument :
MSVOA_N
ClientSampleId :

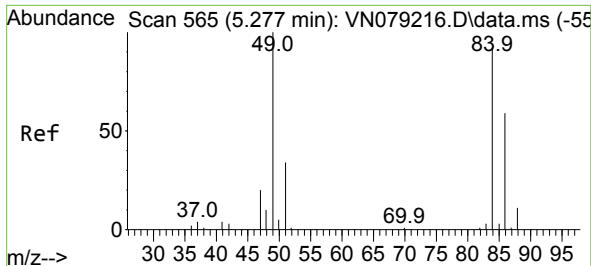
Tgt Ion: 43 Resp: 20022
Ion Ratio Lower Upper
43 100
58 35.7 28.0 42.0



#18
Methyl Acetate
Concen: 1.404 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

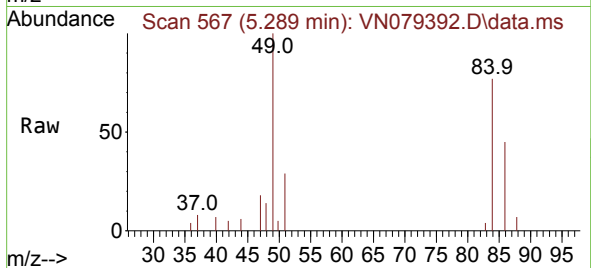
Tgt Ion: 43 Resp: 4313
Ion Ratio Lower Upper
43 100
74 10.8 26.2 39.4#



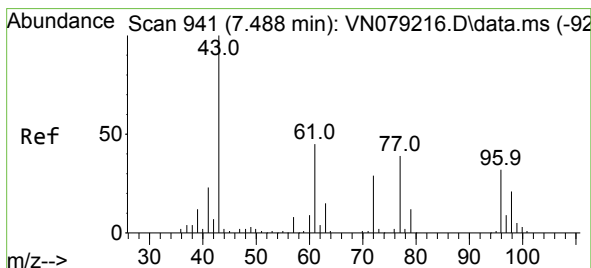
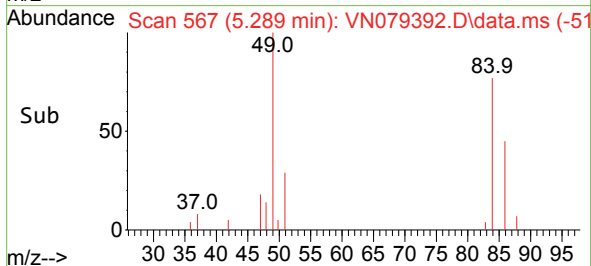
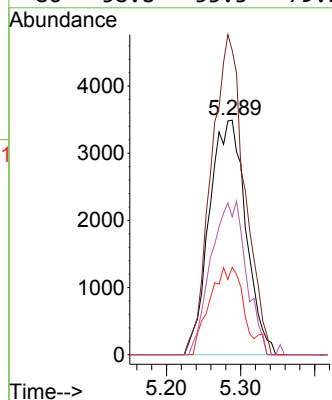


#20
Methylene Chloride
Concen: 6.559 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Instrument :
MSVOA_N
ClientSampleId :

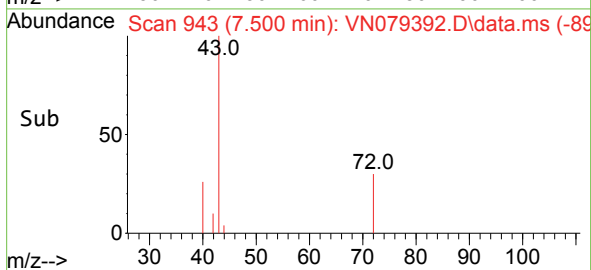
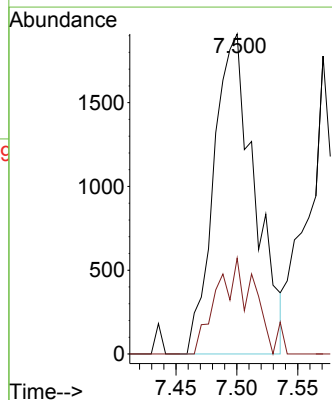
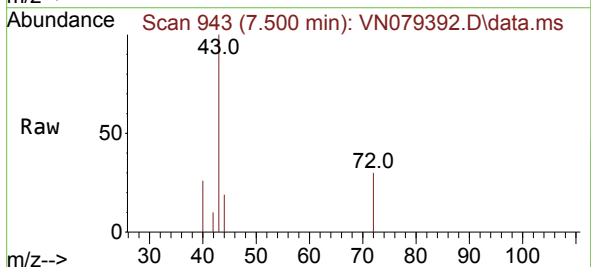


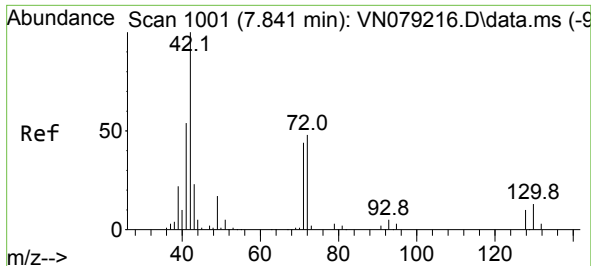
Tgt Ion:	84	Resp:	11931
Ion	Ratio	Lower	Upper
84	100		
49	129.7	79.7	119.5#
51	37.2	25.2	37.8
86	58.8	53.3	79.9



#25
2-Butanone
Concen: 4.105 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion:	43	Resp:	4452
Ion	Ratio	Lower	Upper
43	100		
72	29.9	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.539 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.000 min

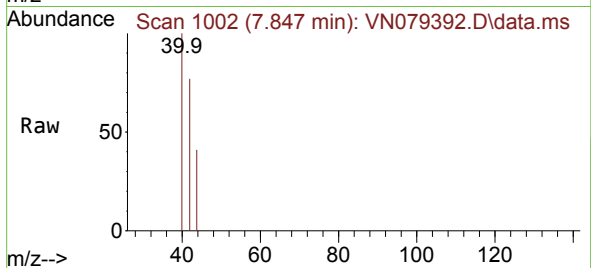
Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

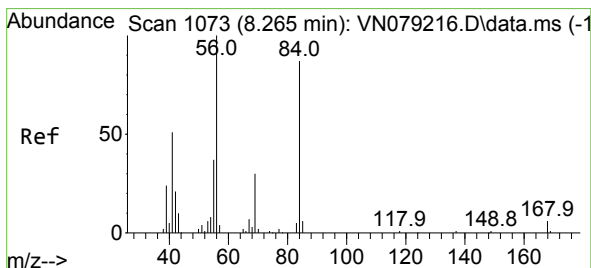
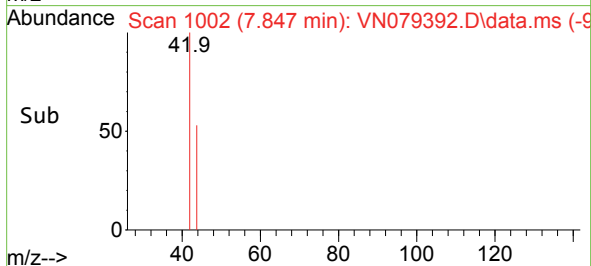
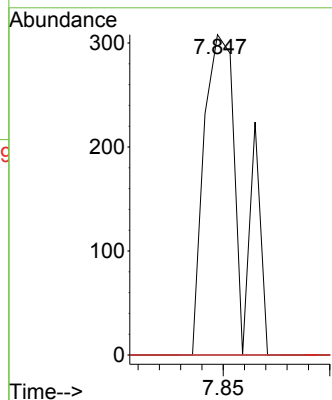
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	372
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.326 ug/l

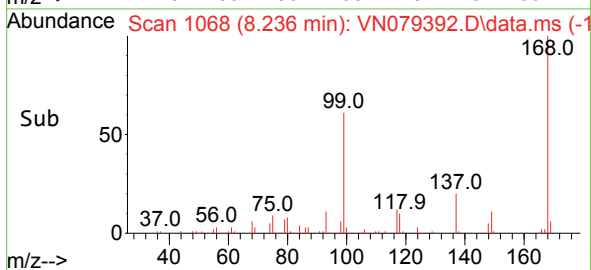
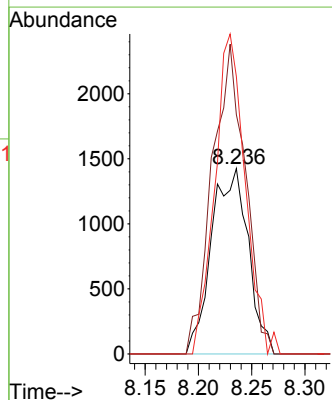
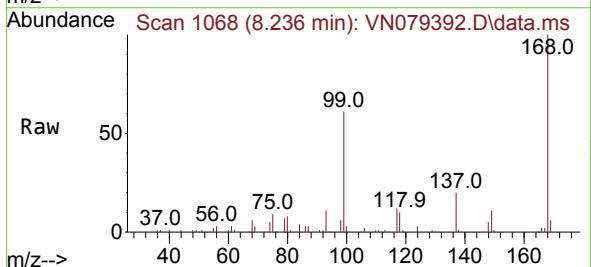
RT: 8.236 min Scan# 1068

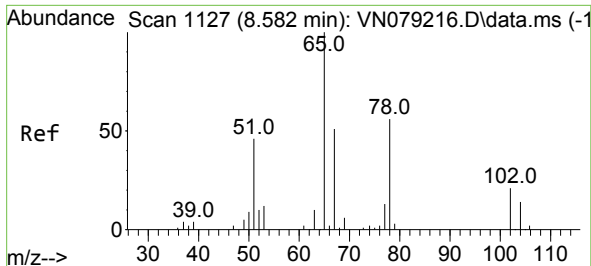
Delta R.T. -0.029 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Tgt Ion:	56	Resp:	3409
Ion	Ratio	Lower	Upper
56	100		
69	129.0	26.8	40.2#
84	149.6	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 69.431 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

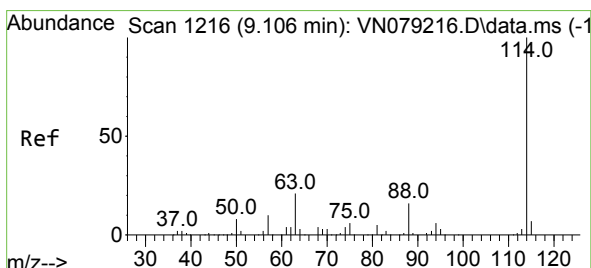
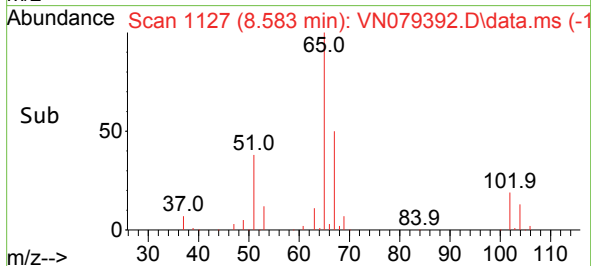
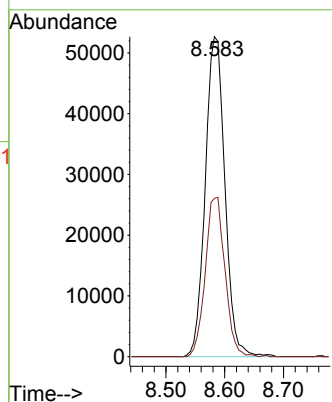
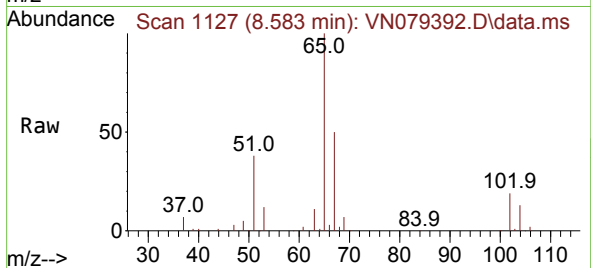
ClientSampleId :

Tgt Ion: 65 Resp: 122209

Ion Ratio Lower Upper

65 100

67 49.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

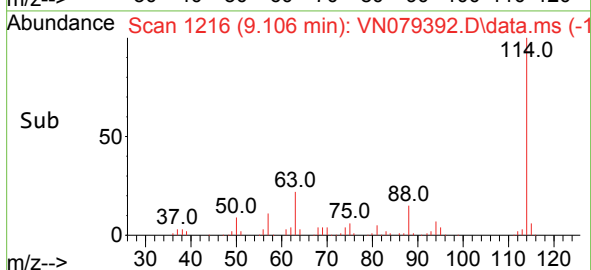
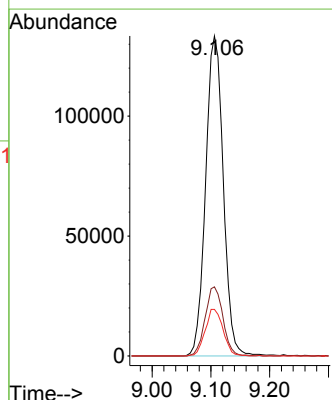
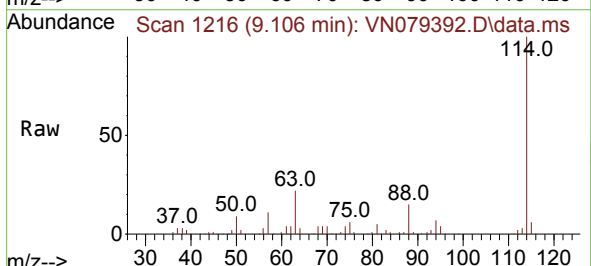
Tgt Ion: 114 Resp: 278333

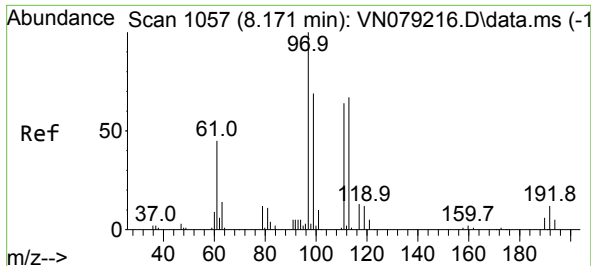
Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 14.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.769 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

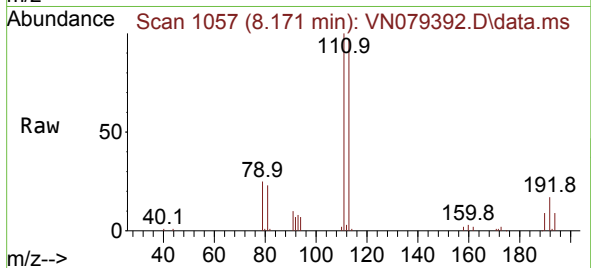
Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

ClientSampleId :



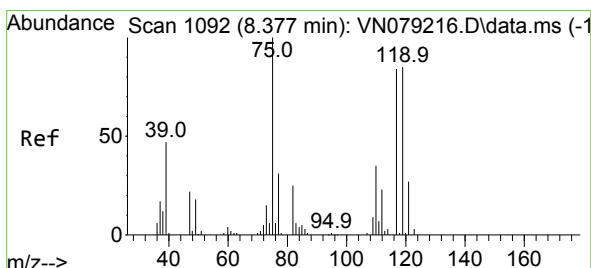
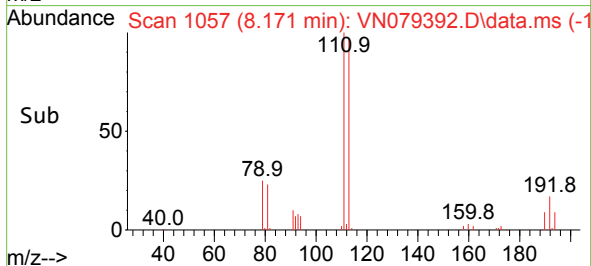
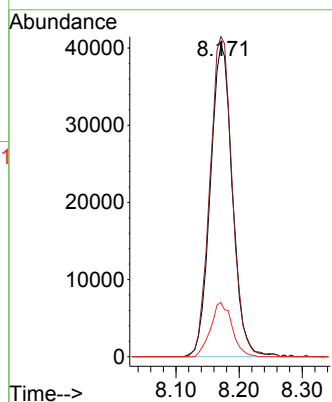
Tgt Ion:113 Resp: 97698

Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

192 16.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.441 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

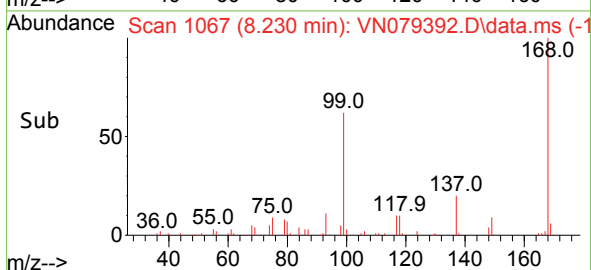
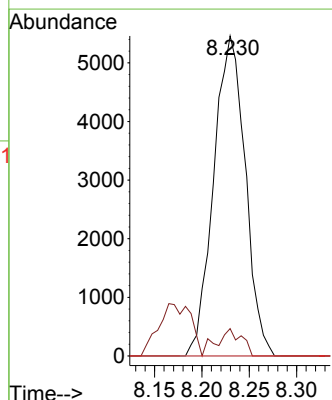
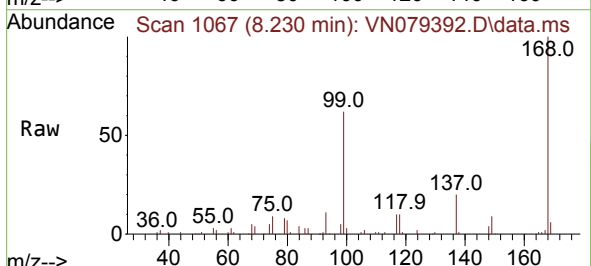
Tgt Ion: 75 Resp: 12674

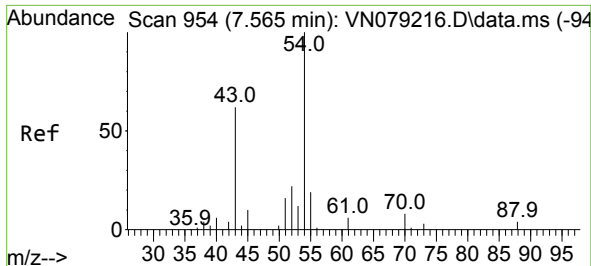
Ion Ratio Lower Upper

75 100

110 6.7 19.1 57.3#

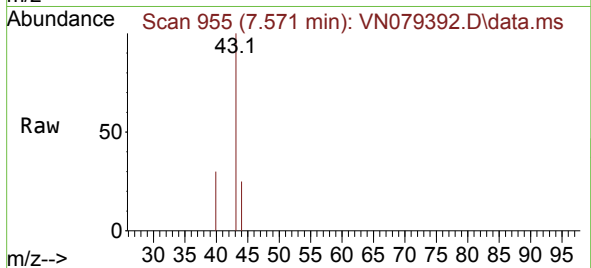
77 0.0 25.0 37.4#



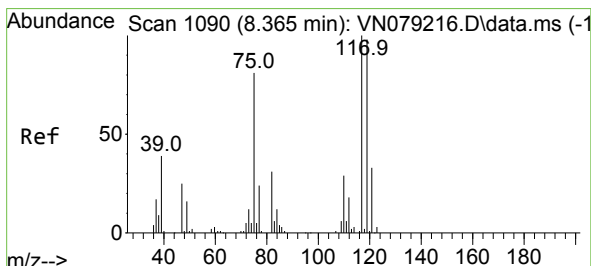
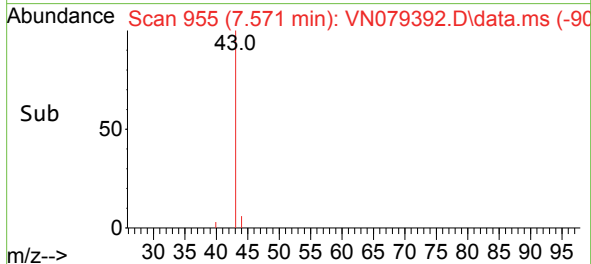
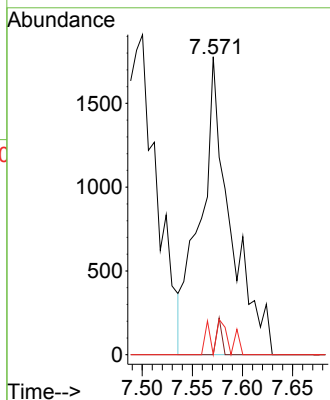


#37
Ethyl Acetate
Concen: 1.302 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Instrument :
MSVOA_N
ClientSampleId :

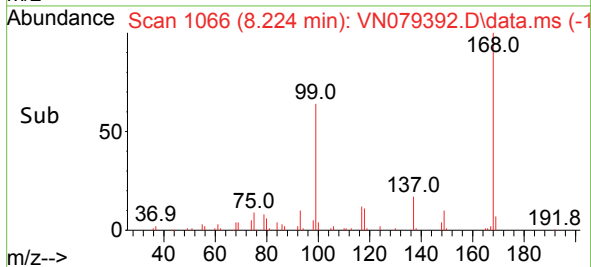
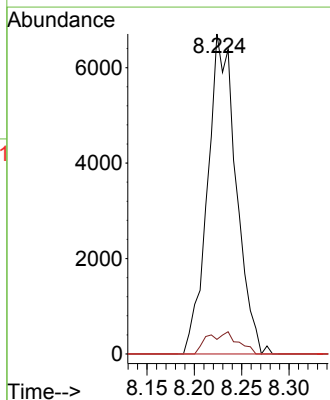
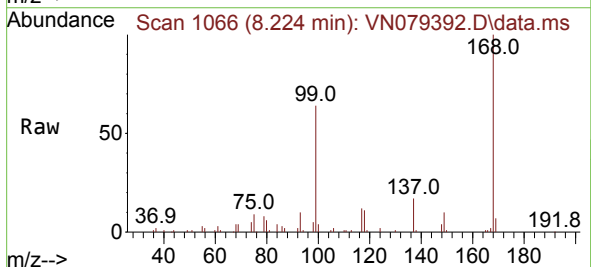


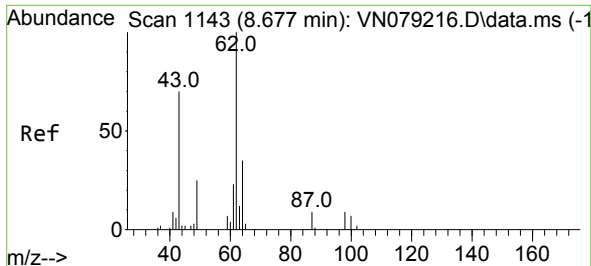
Tgt Ion: 43 Resp: 3707
Ion Ratio Lower Upper
43 100
61 2.1 13.2 19.8#
70 6.9 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.752 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion: 117 Resp: 14032
Ion Ratio Lower Upper
117 100
119 4.5 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.386 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

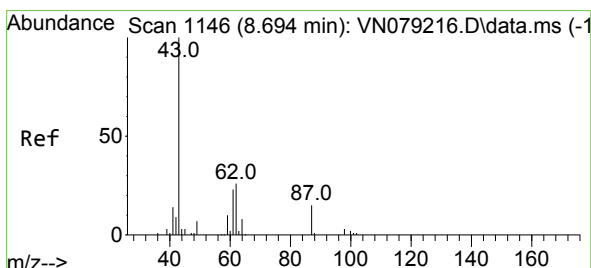
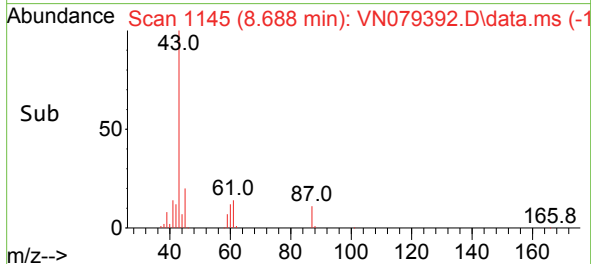
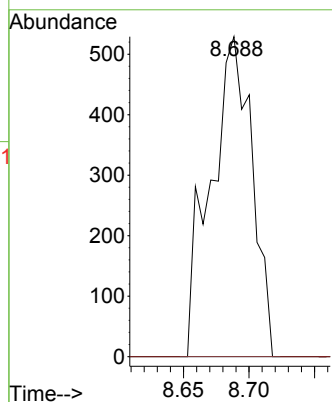
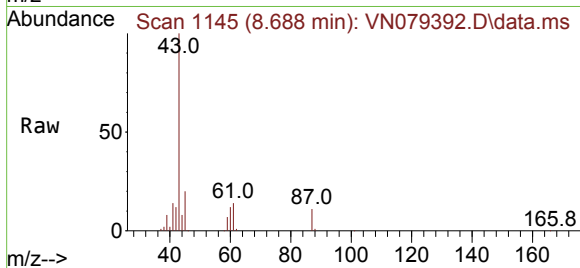
ClientSampleId :

Tgt Ion: 62 Resp: 1162

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 58.088 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

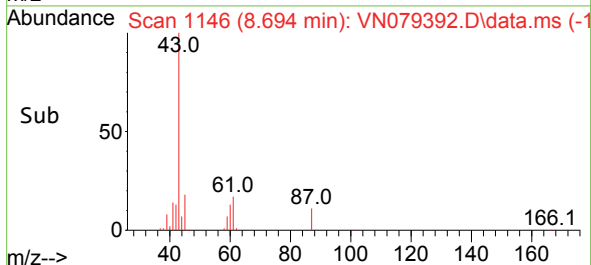
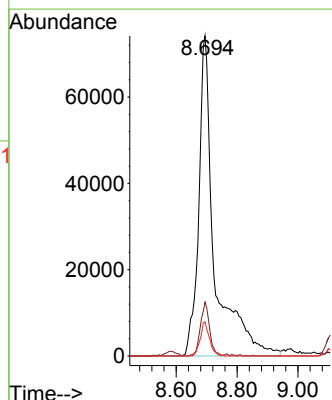
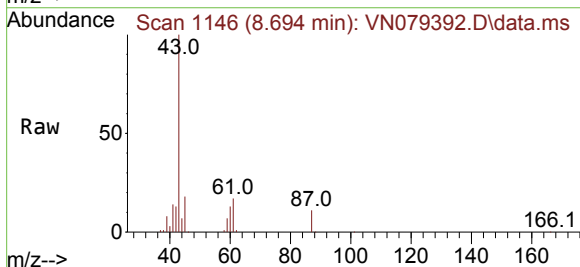
Tgt Ion: 43 Resp: 269785

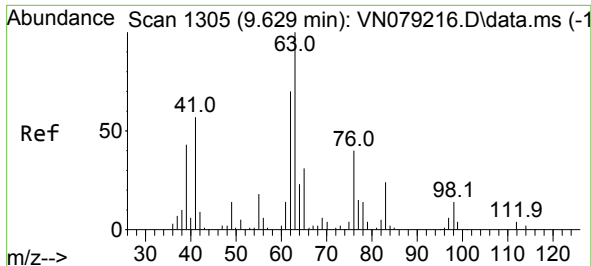
Ion Ratio Lower Upper

43 100

61 9.7 24.7 37.1#

87 6.1 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.821 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

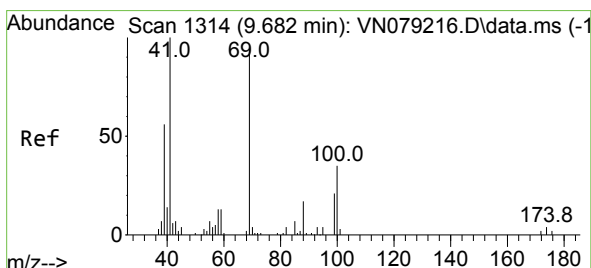
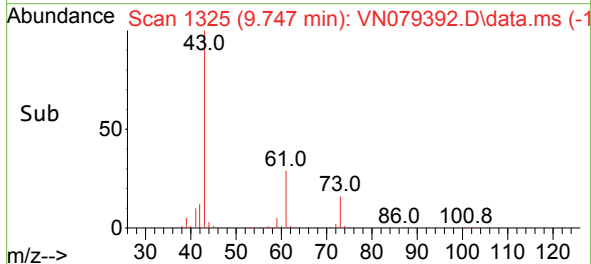
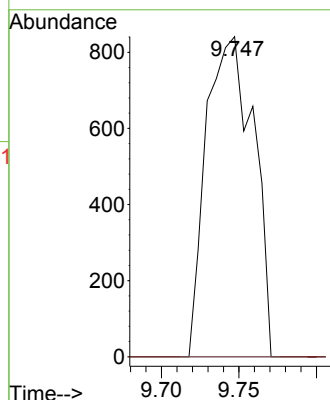
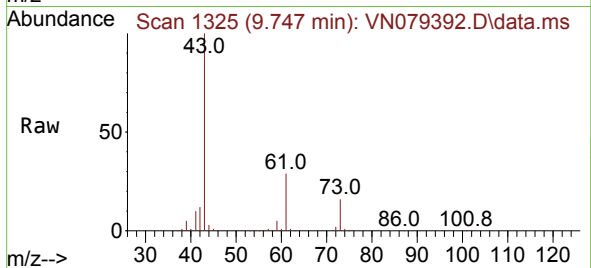
ClientSampleId :

Tgt Ion: 63 Resp: 1780

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 62.644 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

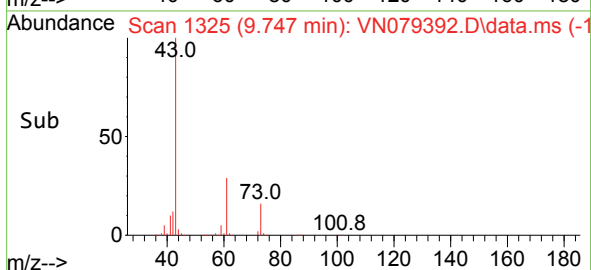
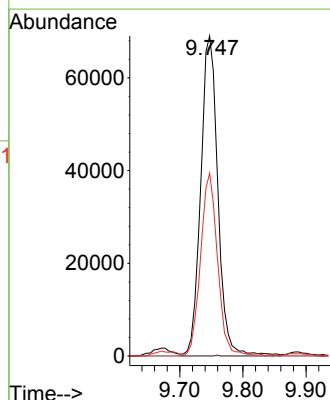
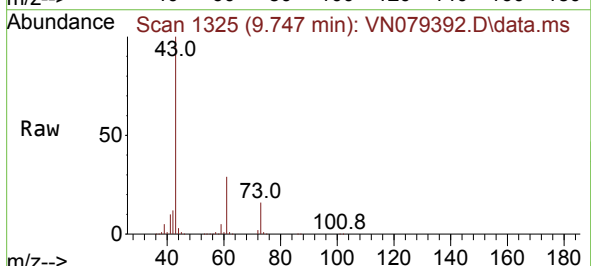
Tgt Ion: 41 Resp: 130319

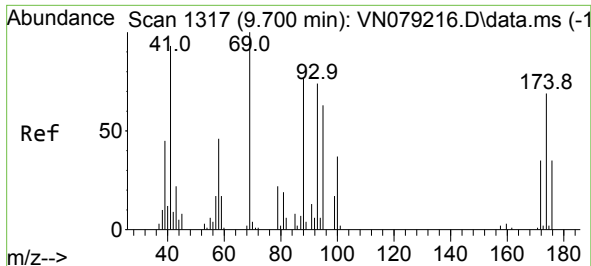
Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 56.2 54.6 81.8





#49

1,4-Dioxane

Concen: 1.566 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.041 min

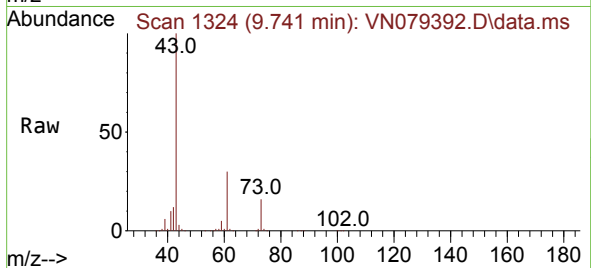
Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

ClientSampleId :



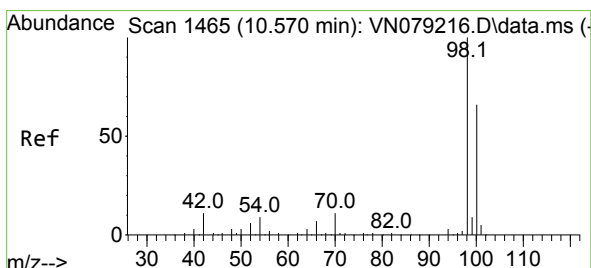
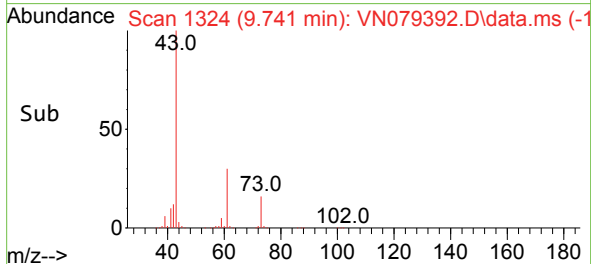
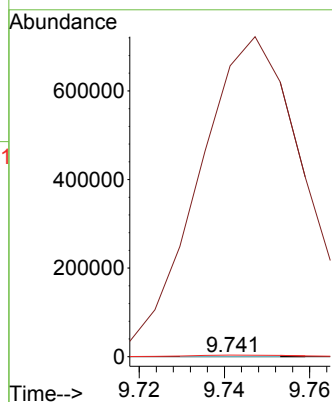
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 1942800.0 17.0 25.6#

58 10204.5 47.0 70.4#



#50

Toluene-d8

Concen: 53.621 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079392.D

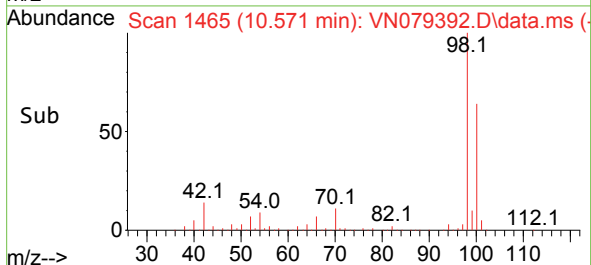
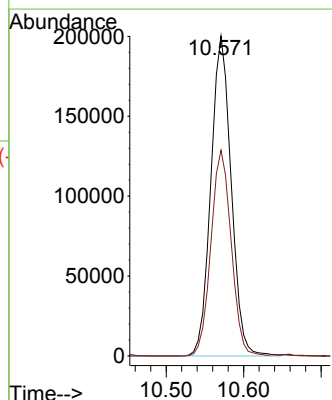
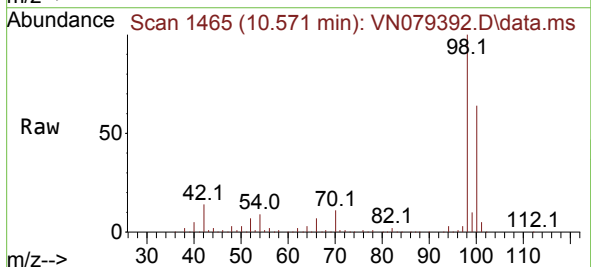
Acq: 30 Sep 2023 17:22

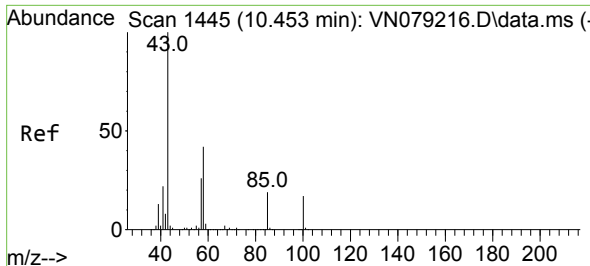
Tgt Ion: 98 Resp: 364520

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

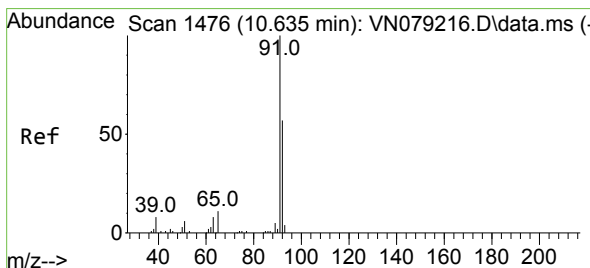
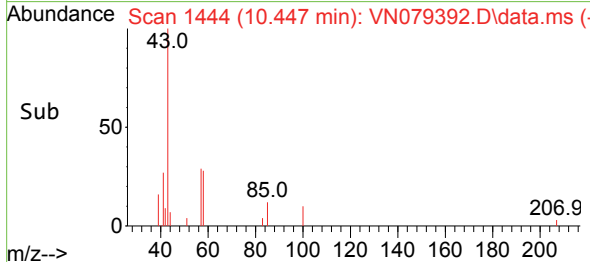
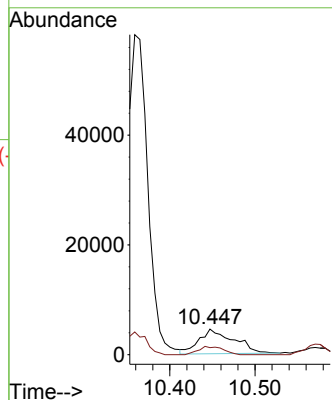
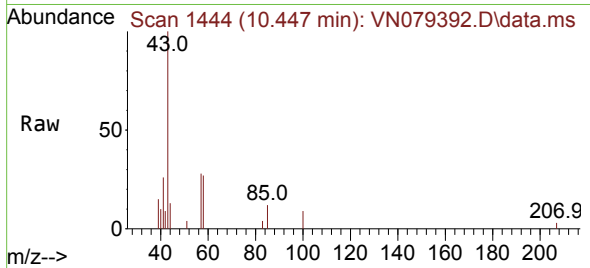




#51
4-Methyl-2-Pentanone
Concen: 4.703 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

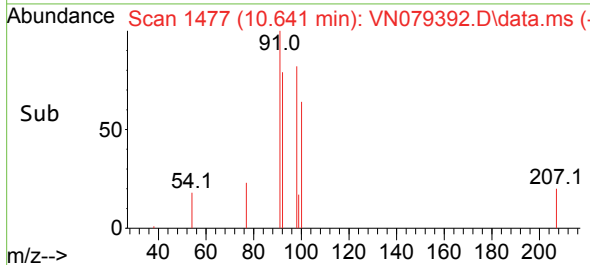
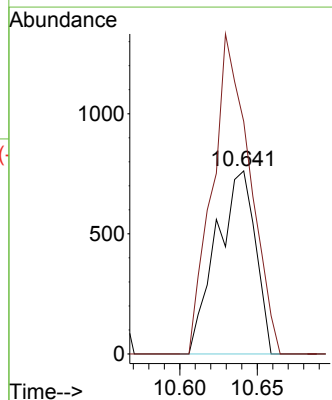
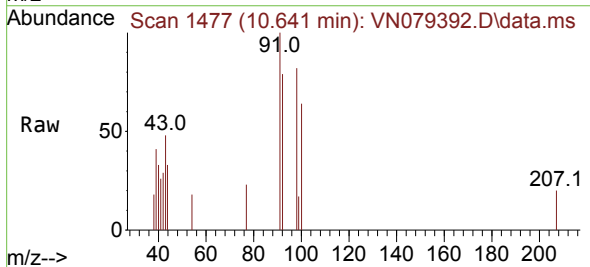
Instrument :
MSVOA_N
ClientSampleId :

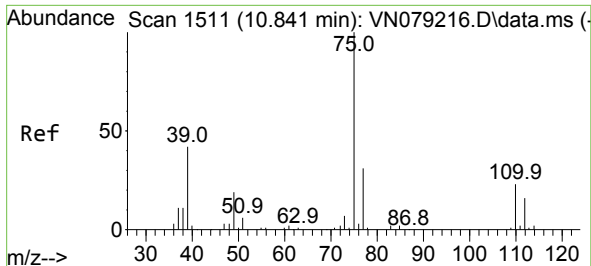
Tgt Ion: 43 Resp: 12679
Ion Ratio Lower Upper
43 100
58 23.8 36.6 54.8#



#52
Toluene
Concen: 0.248 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion: 92 Resp: 1329
Ion Ratio Lower Upper
92 100
91 168.3 137.4 206.0

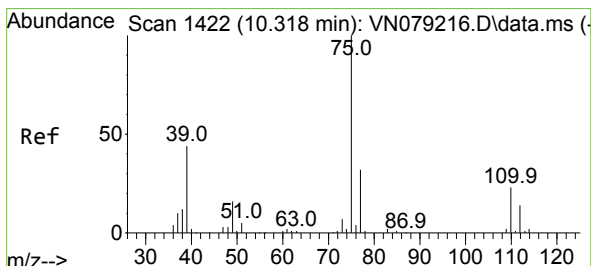
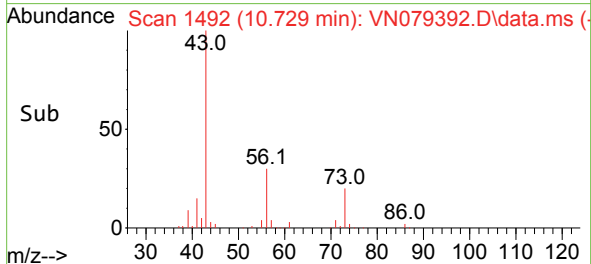
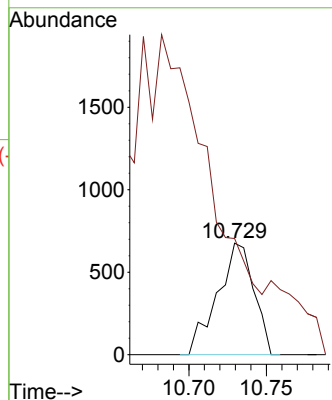
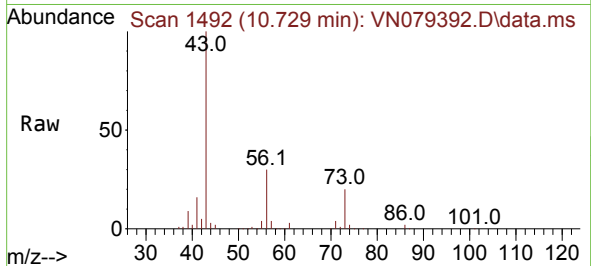




#53
 t-1,3-Dichloropropene
 Concen: 0.348 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.112 min
 Lab File: VN079392.D
 Acq: 30 Sep 2023 17:22

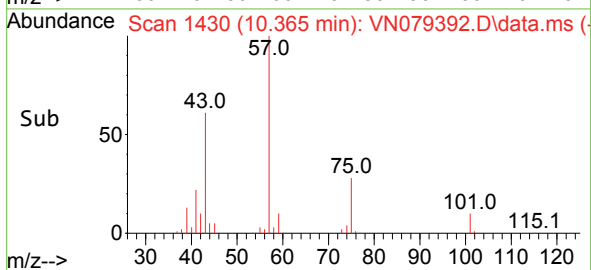
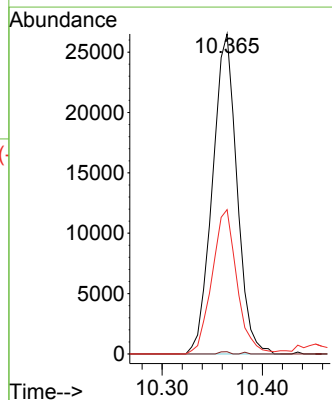
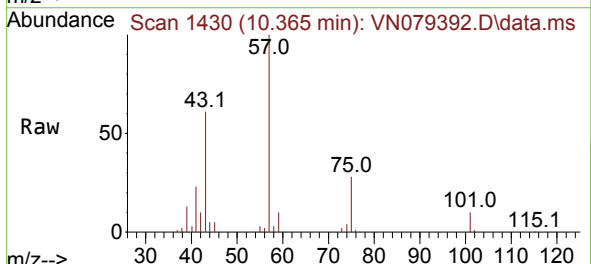
Instrument :
 MSVOA_N
 ClientSampleId :

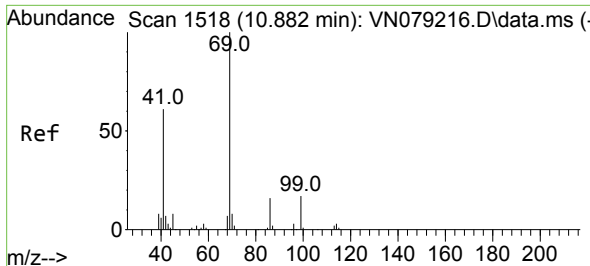
Tgt Ion: 75 Resp: 1107
 Ion Ratio Lower Upper
 75 100
 77 45.7 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 13.213 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079392.D
 Acq: 30 Sep 2023 17:22

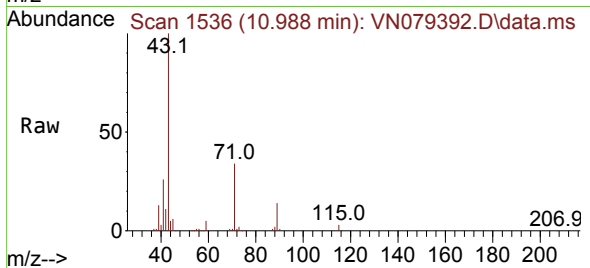
Tgt Ion: 75 Resp: 44921
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 45.1 31.6 47.4



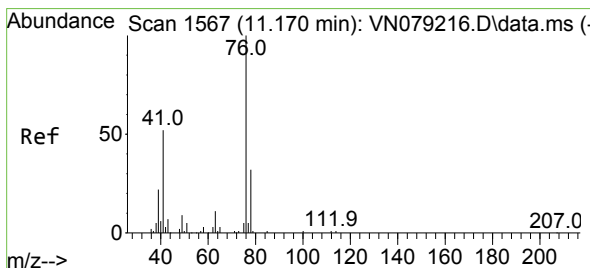
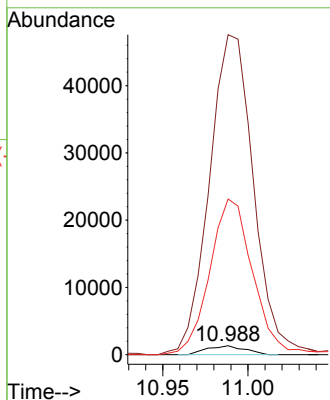
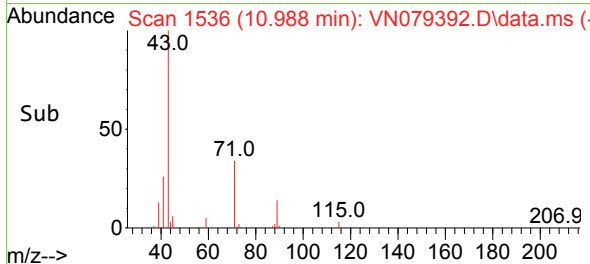


#56
Ethyl methacrylate
Concen: 0.697 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Instrument :
MSVOA_N
ClientSampleId :

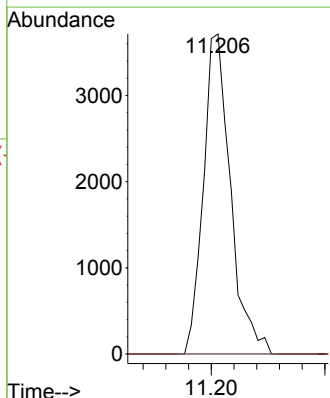
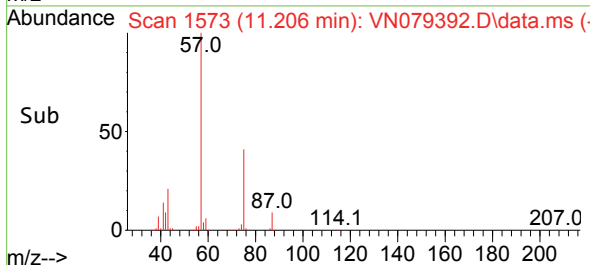
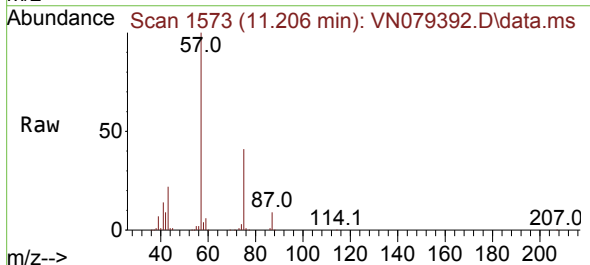


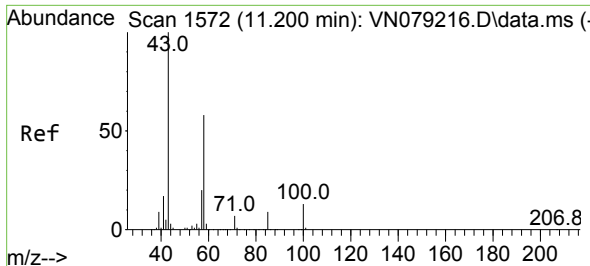
Tgt Ion: 69 Resp: 2073
Ion Ratio Lower Upper
69 100
41 4146.6 39.6 59.4#
39 1965.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.691 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Tgt Ion: 76 Resp: 6157
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

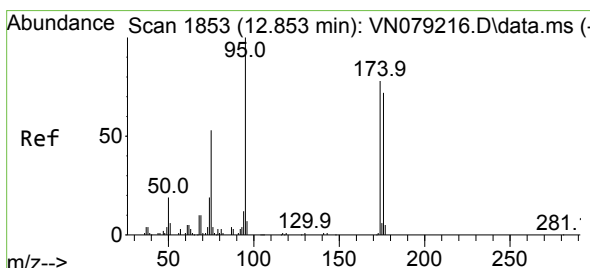
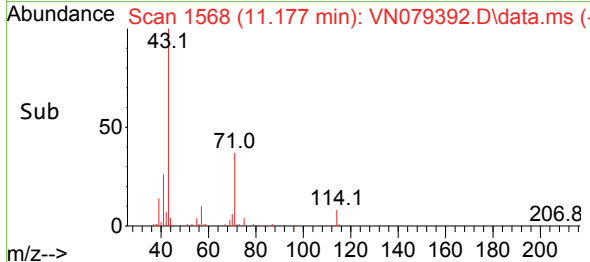
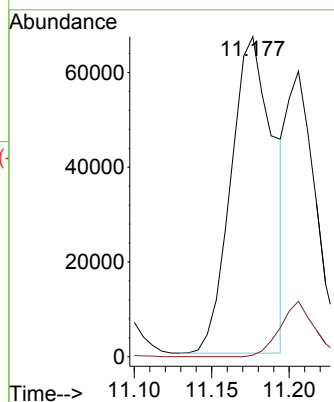
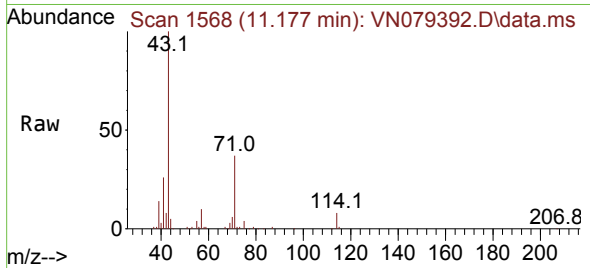




#59
2-Hexanone
Concen: 65.510 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

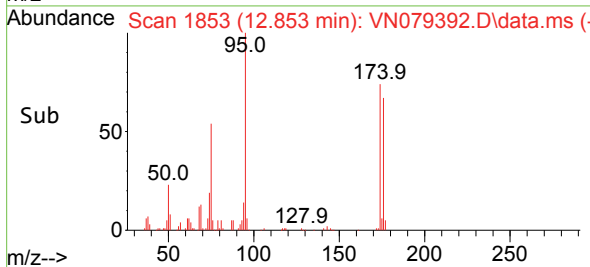
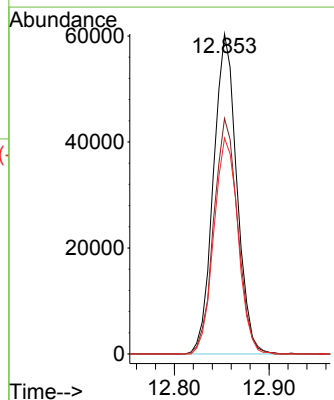
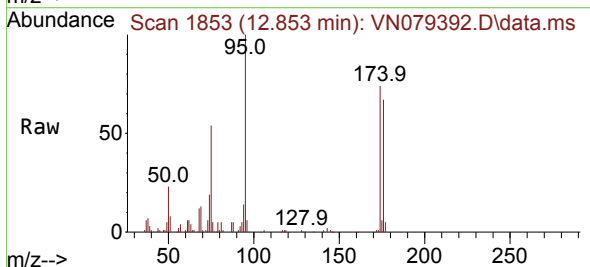
Instrument :
MSVOA_N
ClientSampleId :

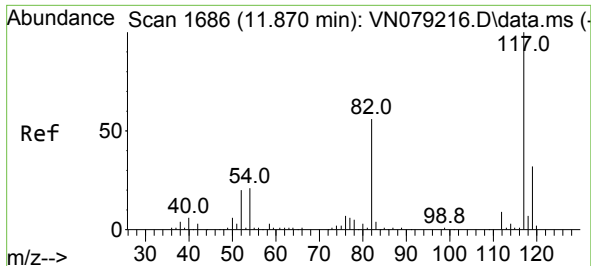
Tgt Ion: 43 Resp: 127922
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.681 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

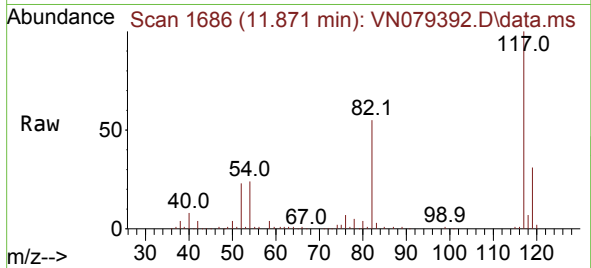
Tgt Ion: 95 Resp: 103395
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 70.0 0.0 135.8



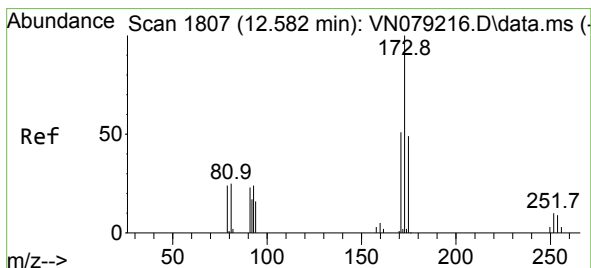
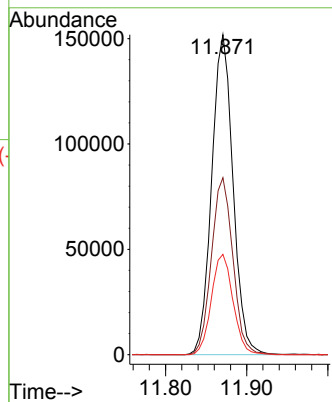
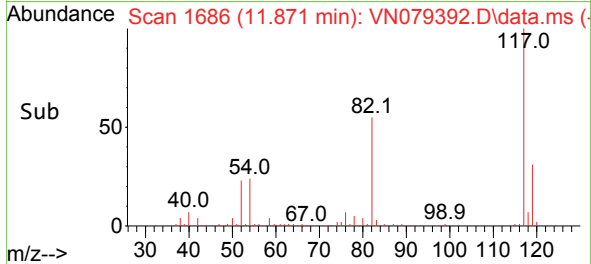


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

Instrument :
MSVOA_N
ClientSampleId :

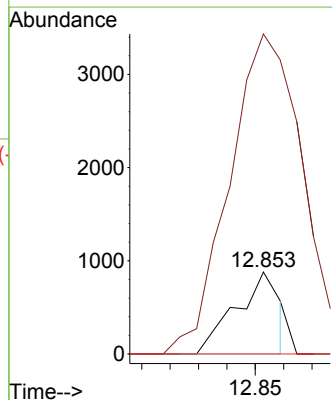
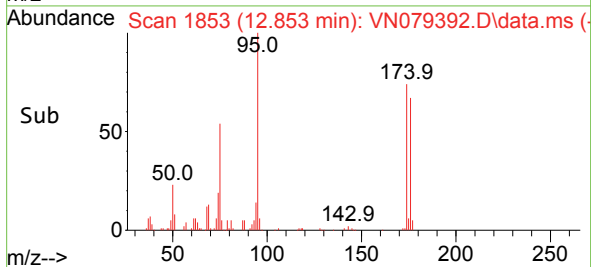
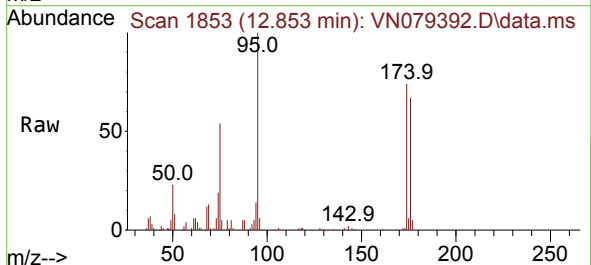


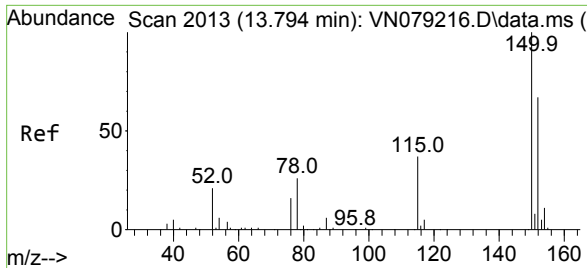
Tgt Ion:117 Resp: 276931
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 31.4 25.6 38.4



#71
Bromoform
Concen: 0.545 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079392.D
Acq: 30 Sep 2023 17:22

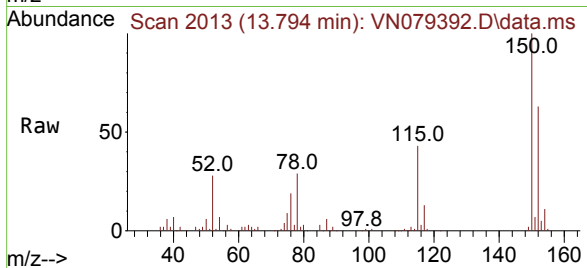
Tgt Ion:173 Resp: 946
Ion Ratio Lower Upper
173 100
175 484.6 24.3 73.0#
254 0.0 0.0 0.0



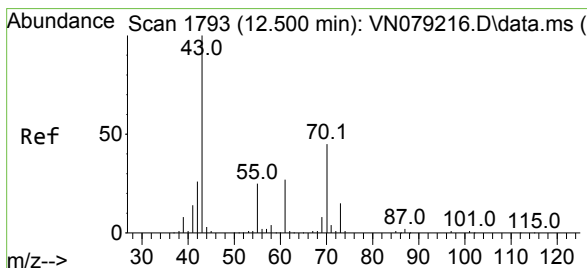
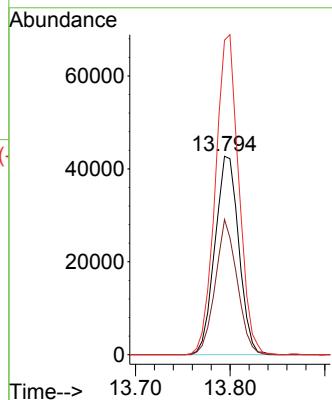
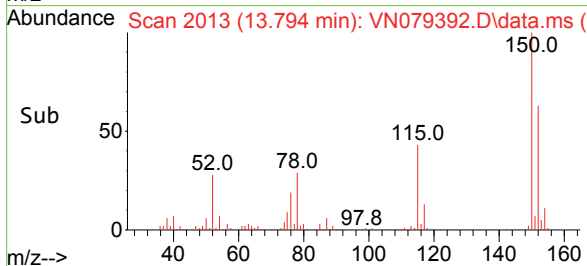


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN079392.D
 Acq: 30 Sep 2023 17:22

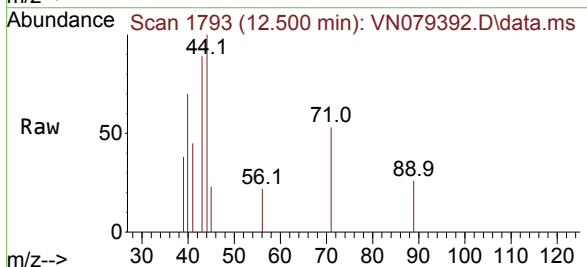
Instrument :
 MSVOA_N
 ClientSampleId :



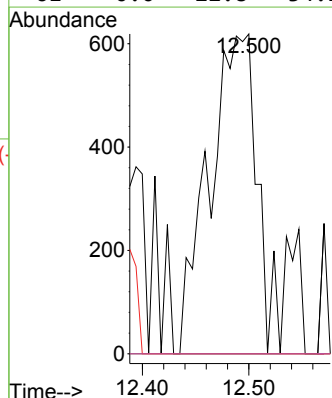
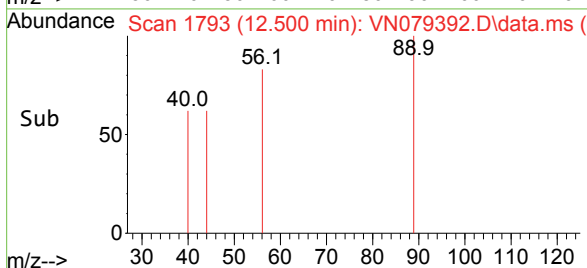
Tgt Ion:152 Resp: 74858
 Ion Ratio Lower Upper
 152 100
 115 62.4 32.3 96.8
 150 158.0 0.0 355.8

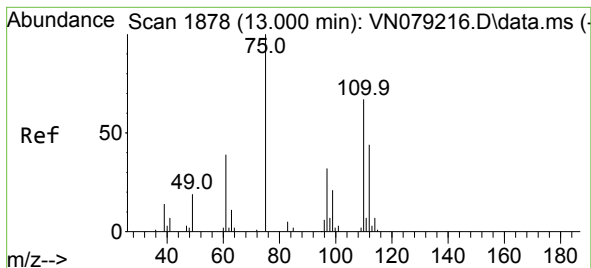


#74
 N-ethyl acetate
 Concen: 0.754 ug/l
 RT: 12.500 min Scan# 1793
 Delta R.T. -0.000 min
 Lab File: VN079392.D
 Acq: 30 Sep 2023 17:22



Tgt Ion: 43 Resp: 1949
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 0.0 21.4 32.0#
 61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 28.201 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Instrument :

MSVOA_N

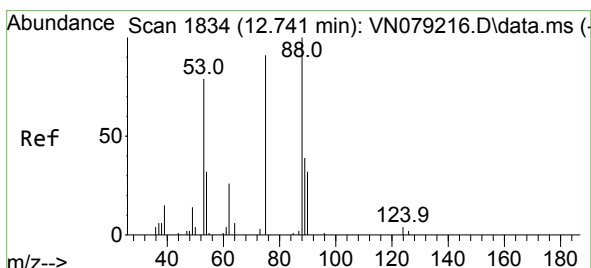
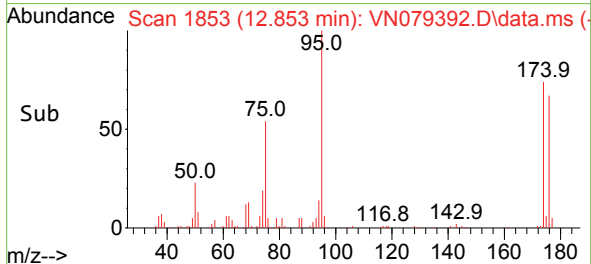
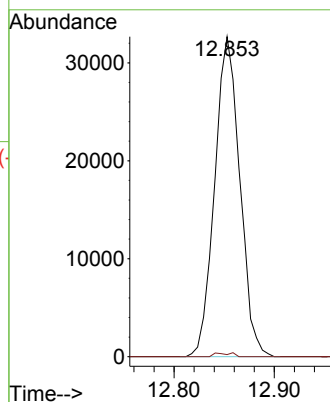
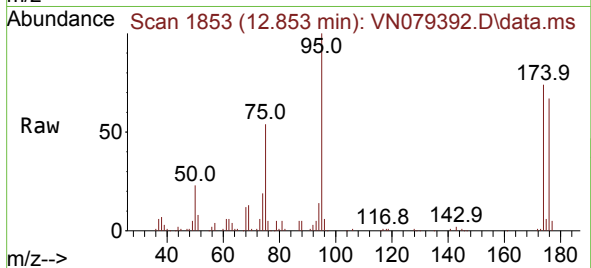
ClientSampleId :

Tgt Ion: 75 Resp: 56897

Ion Ratio Lower Upper

75 100

77 0.8 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.532 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079392.D

Acq: 30 Sep 2023 17:22

Tgt Ion: 75 Resp: 56897

Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

