

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101223\
 Data File : VN079553.D
 Acq On : 12 Oct 2023 18:23
 Operator : JC\MD
 Sample : PB156319ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 01:24:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

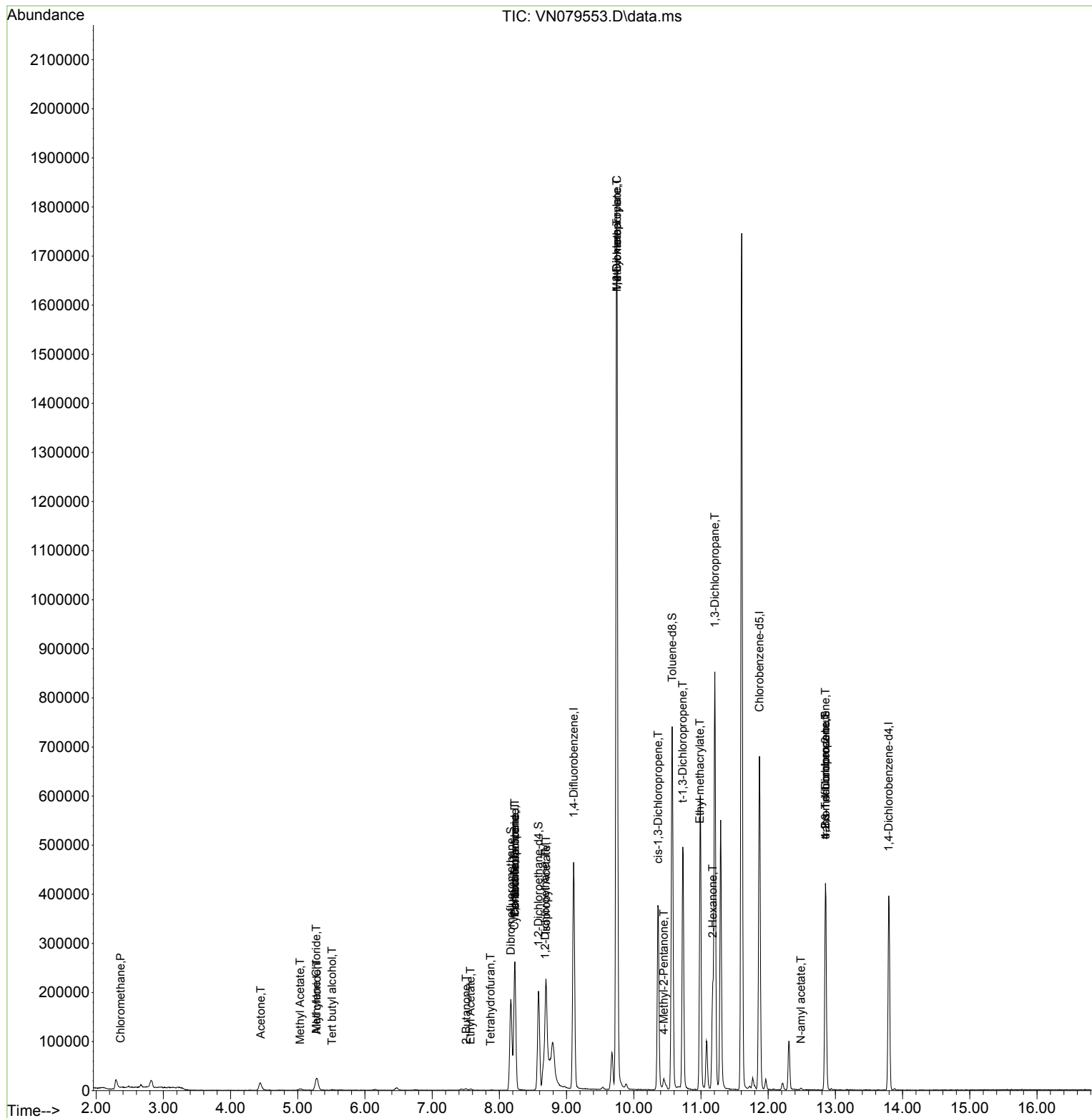
Internal Standards						
1) Pentafluorobenzene	8.229	168	178471	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	379663	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	379775	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	105562	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	159150	54.997	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.000%
35) Dibromofluoromethane	8.171	113	132366	48.514	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.020%
50) Toluene-d8	10.570	98	503616	51.014	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.020%
62) 4-Bromofluorobenzene	12.853	95	140416	44.321	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	886	0.278	ug/l #	42
11) Tert butyl alcohol	5.512	59	234	0.537	ug/l #	72
14) Allyl chloride	5.283	41	769	0.226	ug/l #	19
16) Acetone	4.447	43	30668	26.720	ug/l #	80
18) Methyl Acetate	5.036	43	6013	1.070	ug/l #	79
20) Methylene Chloride	5.277	84	20159	7.509	ug/l #	82
25) 2-Butanone	7.506	43	5519	3.240	ug/l #	67
29) Tetrahydrofuran	7.871	42	271	0.246	ug/l #	20
31) Cyclohexane	8.224	56	5032	1.226	ug/l #	45
36) 1,1-Dichloropropene	8.229	75	16554	4.043	ug/l #	41
37) Ethyl Acetate	7.571	43	4406	1.081	ug/l #	83
38) Carbon Tetrachloride	8.229	117	20269	4.944	ug/l #	16
42) 1,2-Dichloroethane	8.682	62	1578	0.357	ug/l #	73
43) Isopropyl Acetate	8.694	43	305757	42.832	ug/l #	70
45) 1,2-Dichloropropane	9.747	63	2342	0.731	ug/l #	45
48) Methyl methacrylate	9.747	41	165255	54.023	ug/l #	29
49) 1,4-Dioxane	9.747	88	176	3.124	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	21682	5.381	ug/l #	65
53) t-1,3-Dichloropropene	10.729	75	1300	0.302	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	62857	13.347	ug/l #	74
56) Ethyl methacrylate	10.982	69	3235	0.819	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8319	1.676	ug/l #	42
59) 2-Hexanone	11.176	43	150467	51.745	ug/l #	19
74) N-amyl acetate	12.488	43	1658	0.412	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.853	83	64	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	79476	26.112	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	79476	75.766	ug/l #	15

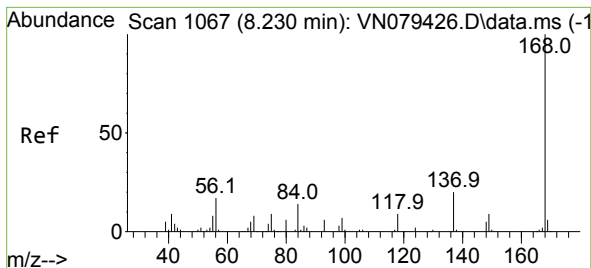
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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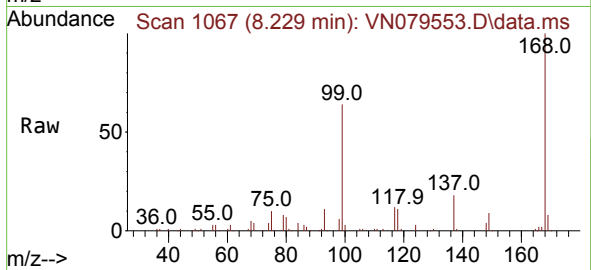
Quant Time: Oct 13 01:24:02 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 06 03:34:49 2023
Response via : Initial Calibration



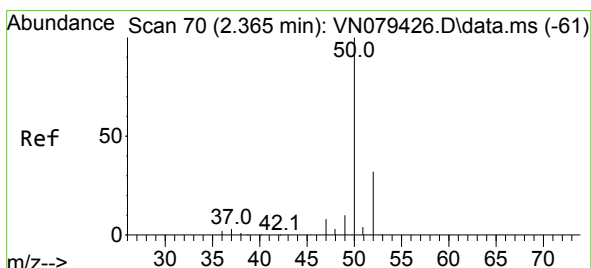
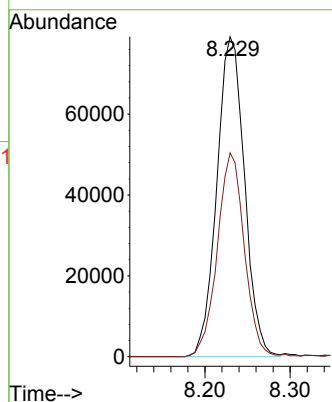
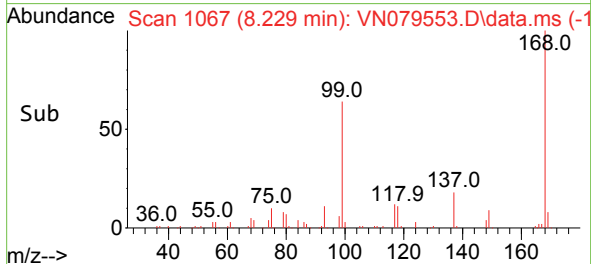


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :

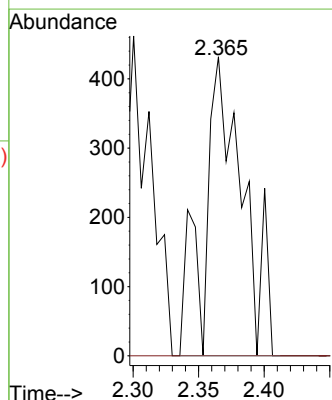
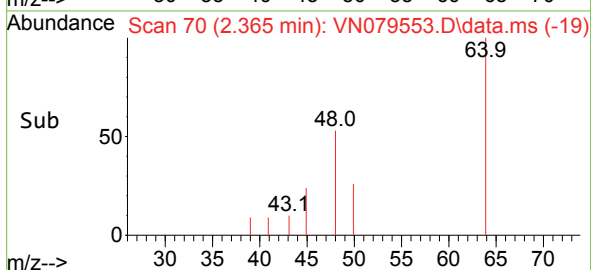
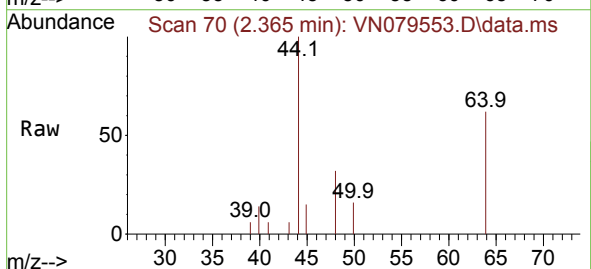


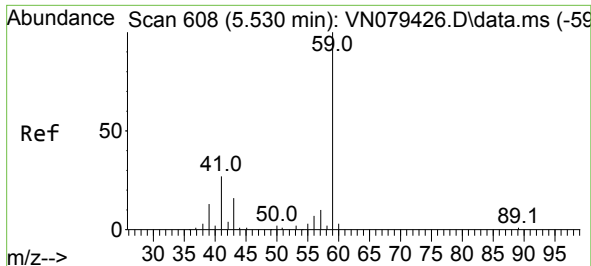
Tgt Ion:168 Resp: 178471
Ion Ratio Lower Upper
168 100
99 63.7 53.0 79.6



#3
Chloromethane
Concen: 0.278 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

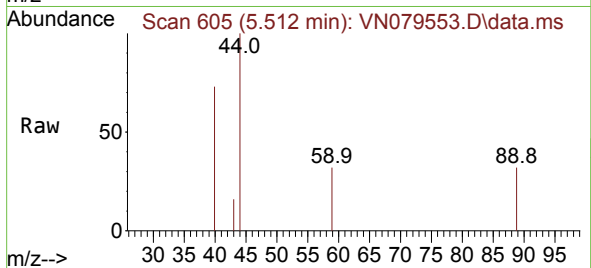
Tgt Ion: 50 Resp: 886
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



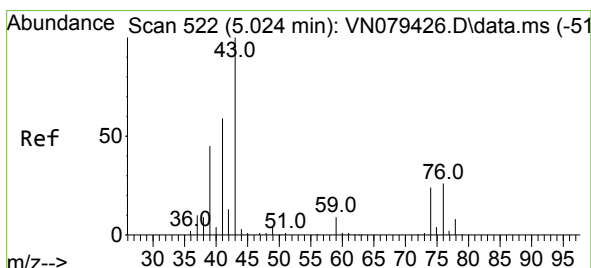
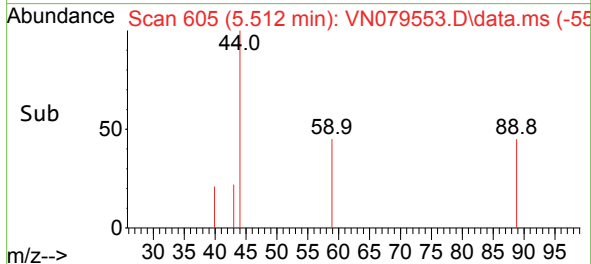
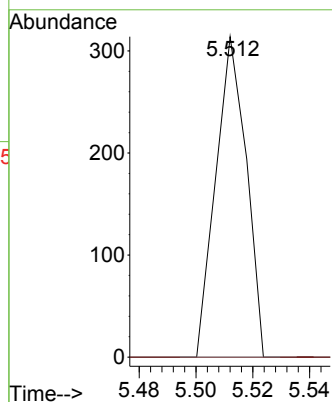


#11
Tert butyl alcohol
Concen: 0.537 ug/l
RT: 5.512 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :

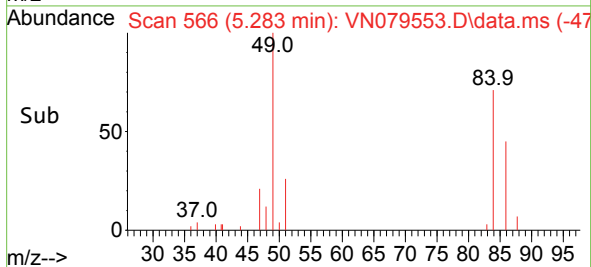
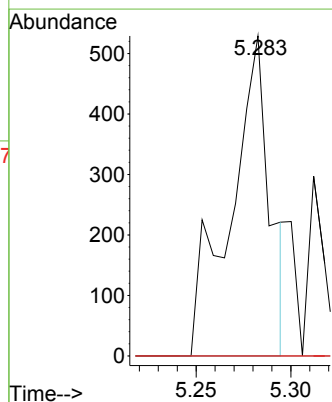
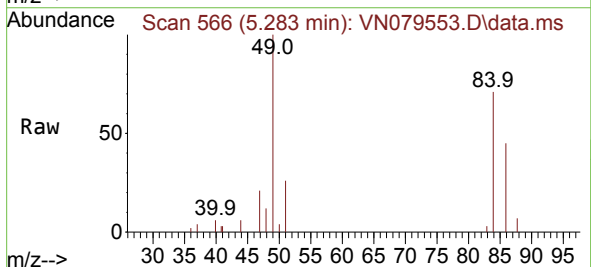


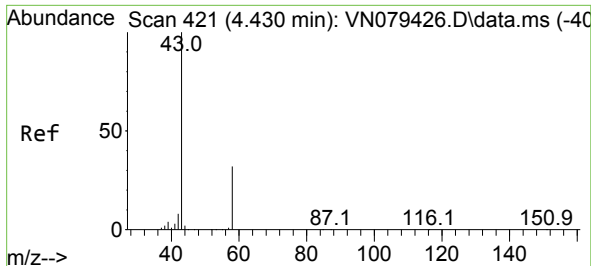
Tgt Ion: 59 Resp: 234
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#14
Allyl chloride
Concen: 0.226 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.259 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Tgt Ion: 41 Resp: 769
Ion Ratio Lower Upper
41 100
39 0.0 58.8 88.2#
76 0.0 39.1 58.7#

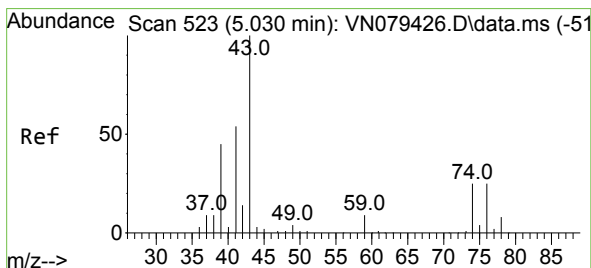
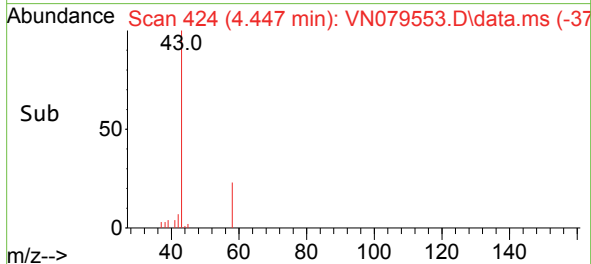
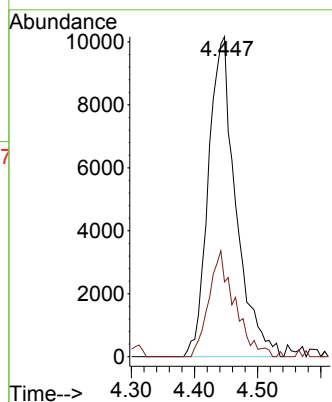
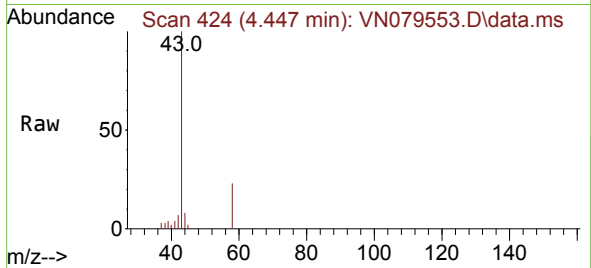




#16
Acetone
Concen: 26.720 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

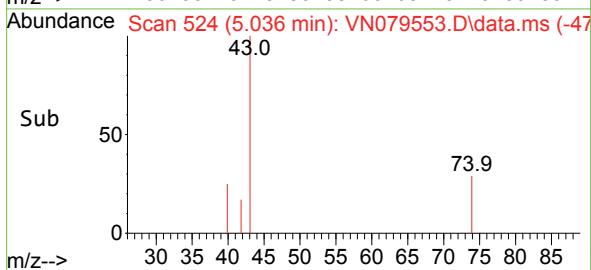
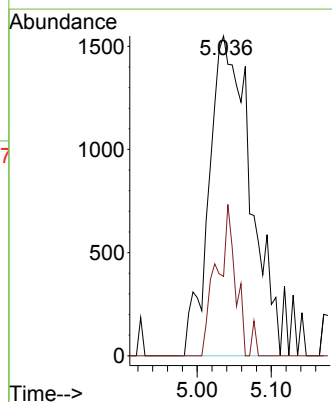
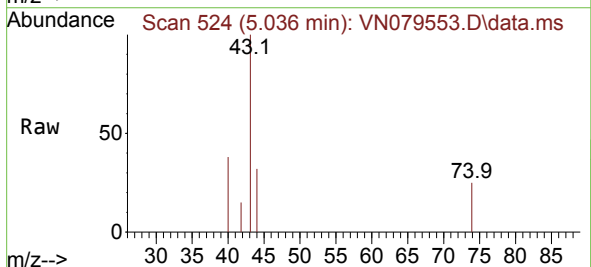
Instrument :
MSVOA_N
ClientSampleId :

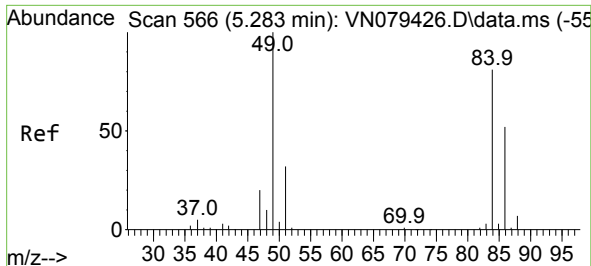
Tgt Ion: 43 Resp: 30668
Ion Ratio Lower Upper
43 100
58 23.4 28.0 42.0#



#18
Methyl Acetate
Concen: 1.070 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

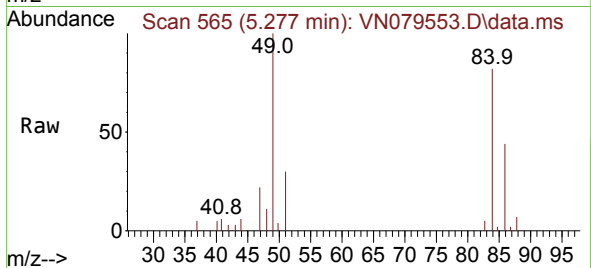
Tgt Ion: 43 Resp: 6013
Ion Ratio Lower Upper
43 100
74 21.2 26.2 39.4#



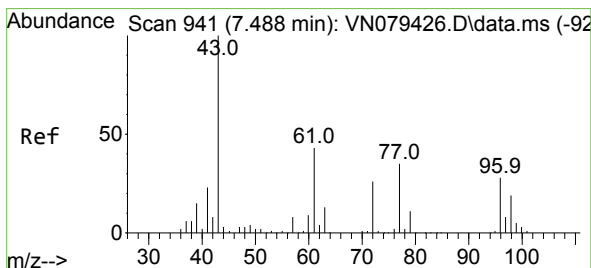
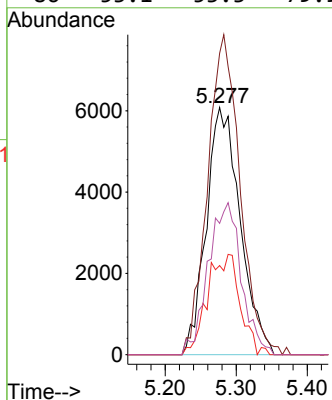


#20
Methylene Chloride
Concen: 7.509 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :

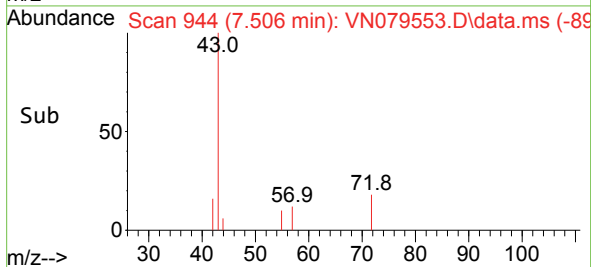
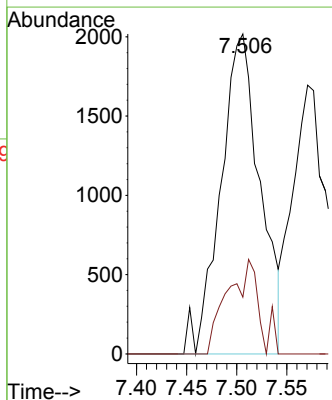
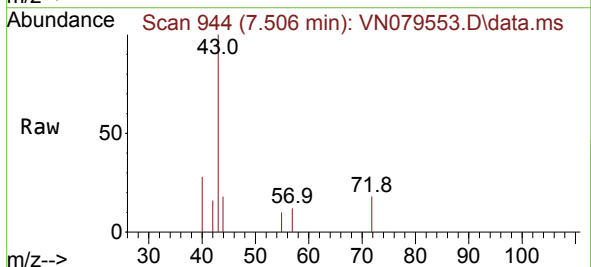


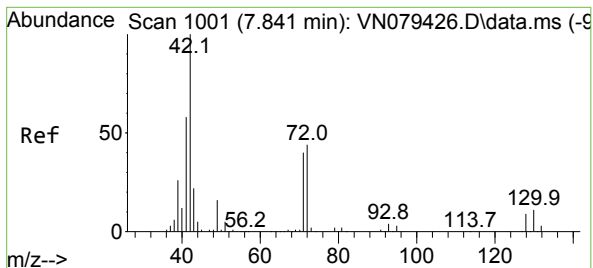
Tgt Ion:	84	Resp:	20159
Ion	Ratio	Lower	Upper
84	100		
49	121.9	79.7	119.5#
51	36.0	25.2	37.8
86	53.1	53.3	79.9#



#25
2-Butanone
Concen: 3.240 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Tgt Ion:	43	Resp:	5519
Ion	Ratio	Lower	Upper
43	100		
72	17.7	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.030 min

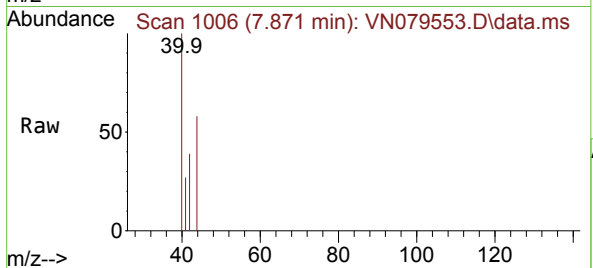
Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

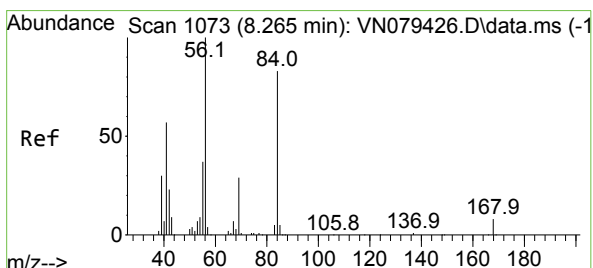
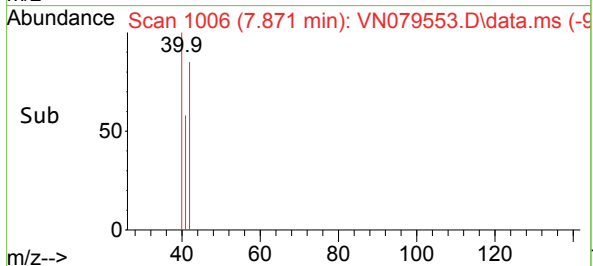
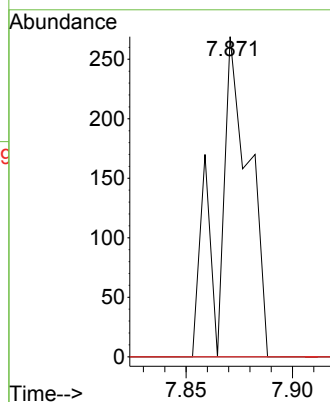
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	271
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.226 ug/l

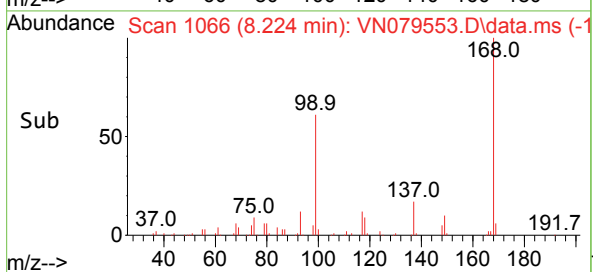
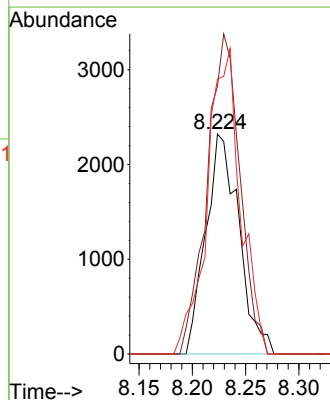
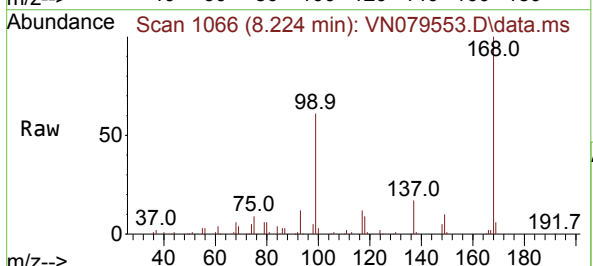
RT: 8.224 min Scan# 1066

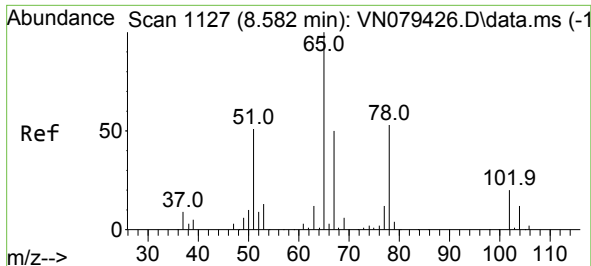
Delta R.T. -0.041 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Tgt Ion:	56	Resp:	5032
Ion	Ratio	Lower	Upper
56	100		
69	121.7	26.8	40.2#
84	124.9	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 54.997 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

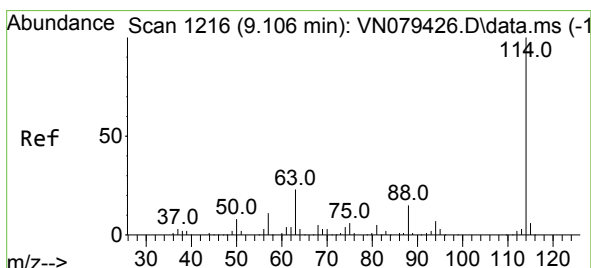
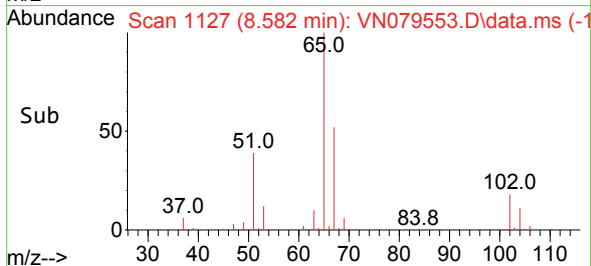
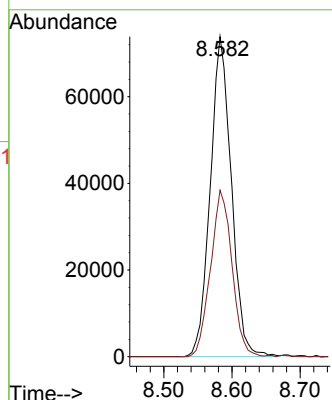
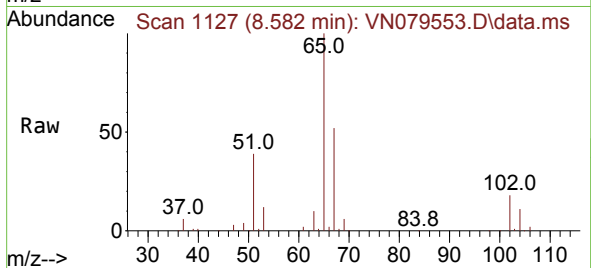
ClientSampleId :

Tgt Ion: 65 Resp: 159150

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

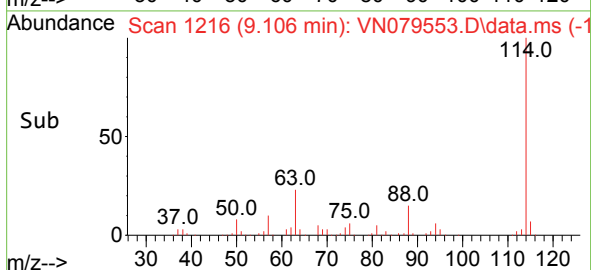
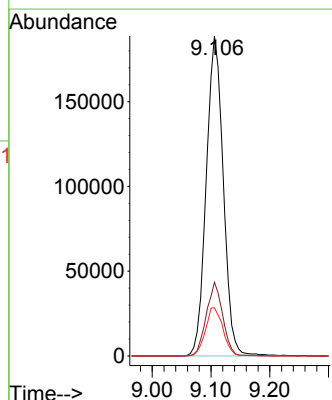
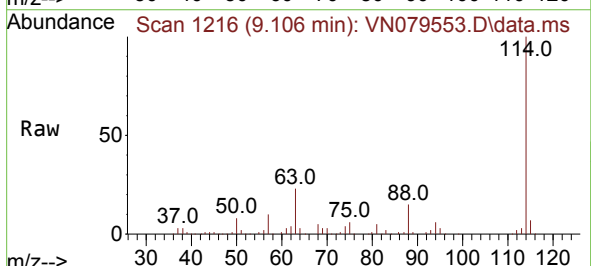
Tgt Ion: 114 Resp: 379663

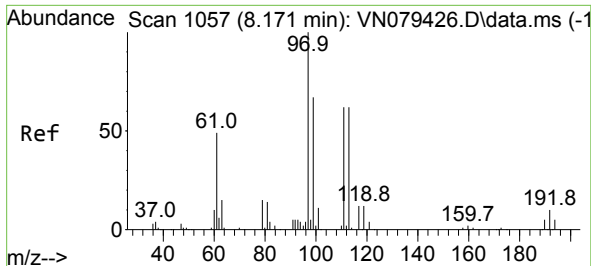
Ion Ratio Lower Upper

114 100

63 23.0 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.514 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

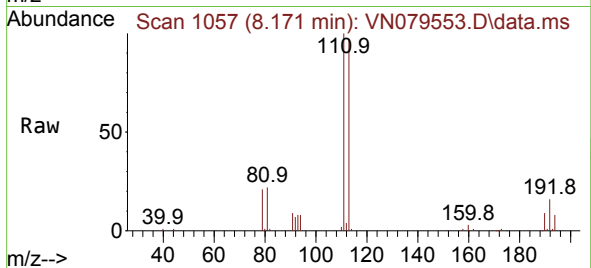
Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :



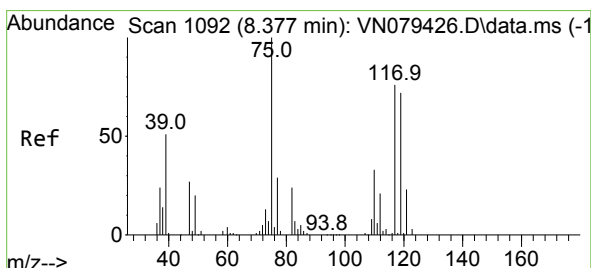
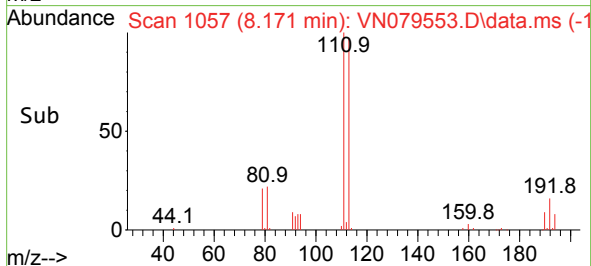
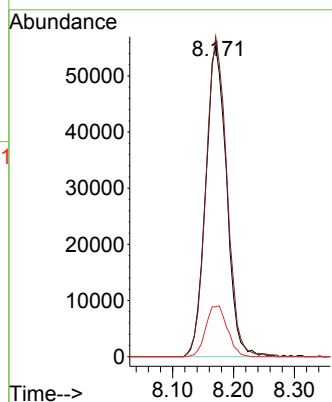
Tgt Ion:113 Resp: 132366

Ion Ratio Lower Upper

113 100

111 103.4 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.043 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

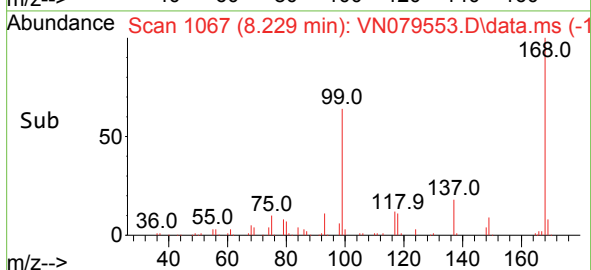
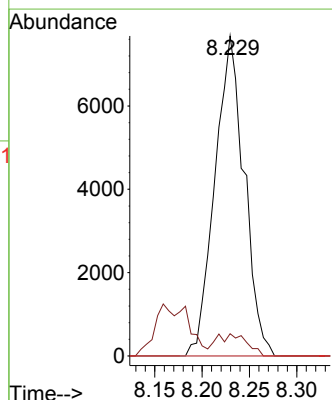
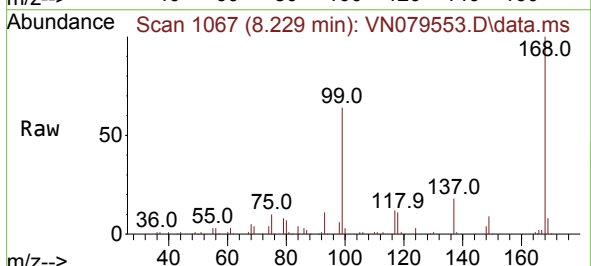
Tgt Ion: 75 Resp: 16554

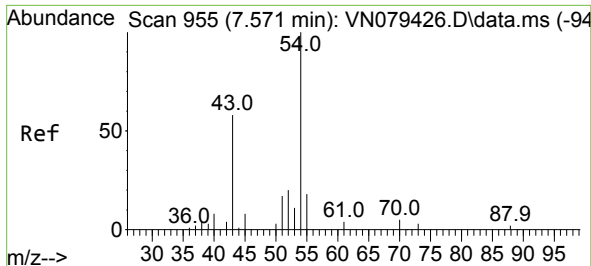
Ion Ratio Lower Upper

75 100

110 1.5 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.081 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

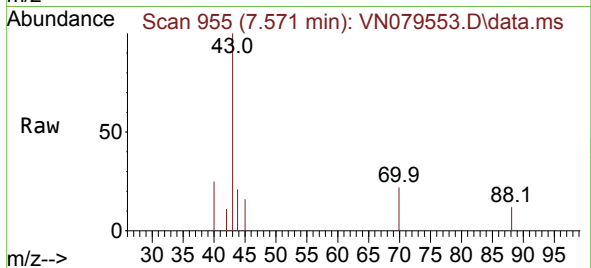
Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

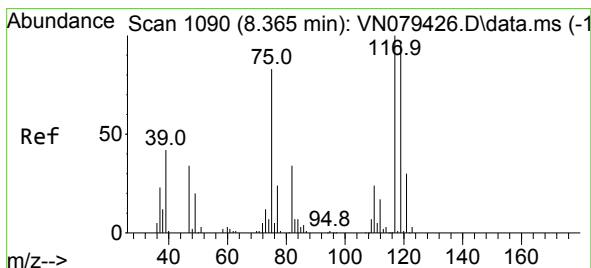
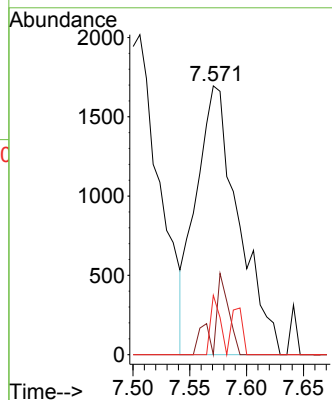
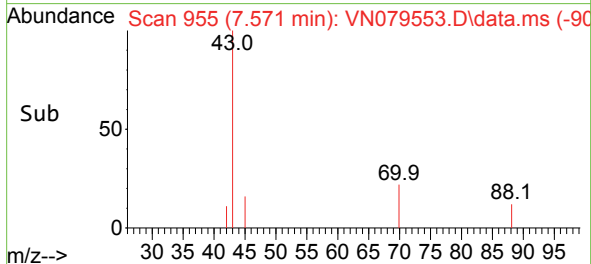
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4406
Ion	Ratio	Lower	Upper
43	100		
61	10.9	13.2	19.8#
70	4.9	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 4.944 ug/l

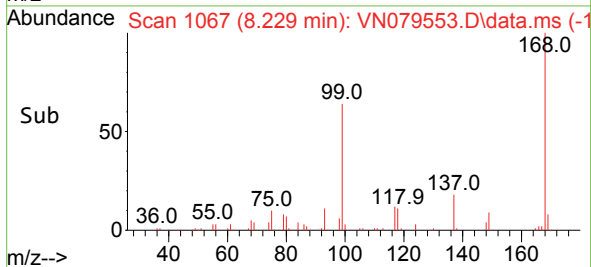
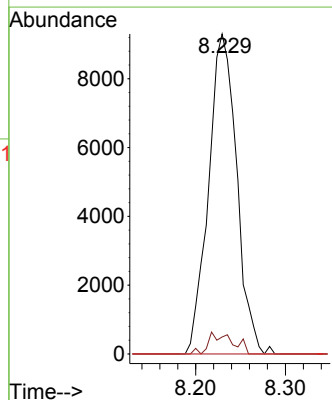
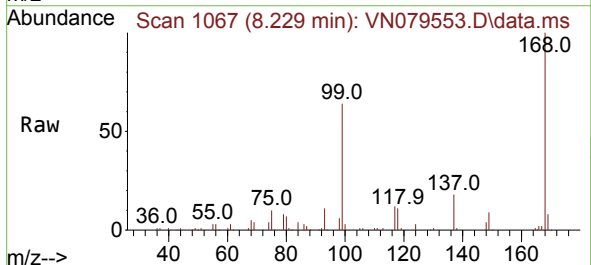
RT: 8.229 min Scan# 1067

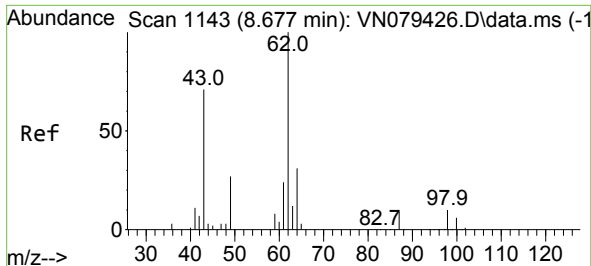
Delta R.T. -0.135 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Tgt Ion:	117	Resp:	20269
Ion	Ratio	Lower	Upper
117	100		
119	5.3	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.357 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

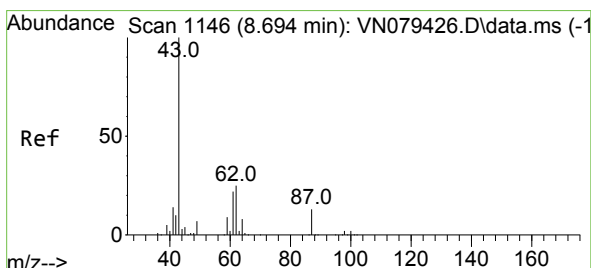
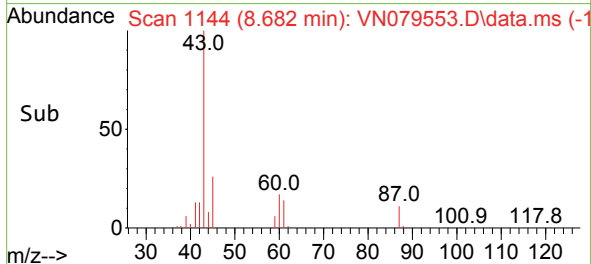
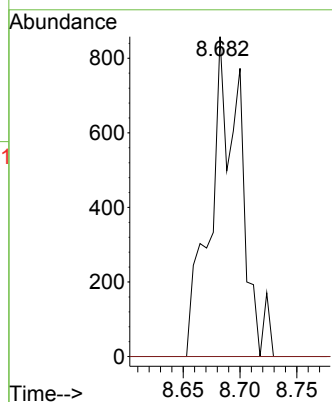
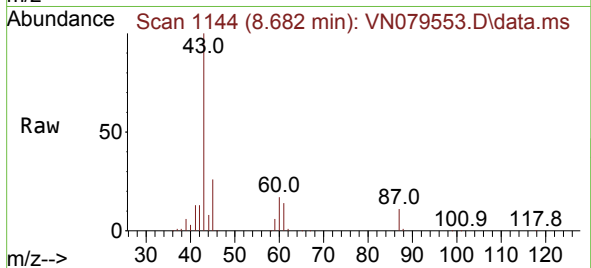
ClientSampleId :

Tgt Ion: 62 Resp: 1578

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 42.832 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

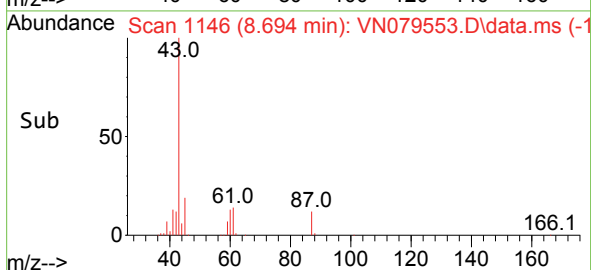
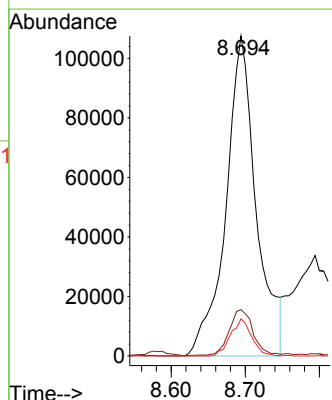
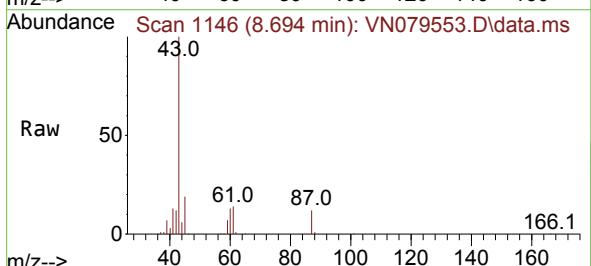
Tgt Ion: 43 Resp: 305757

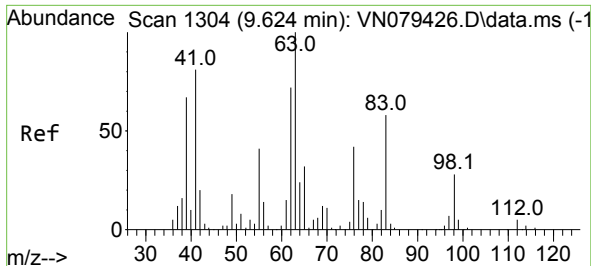
Ion Ratio Lower Upper

43 100

61 11.9 24.7 37.1#

87 8.0 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.731 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

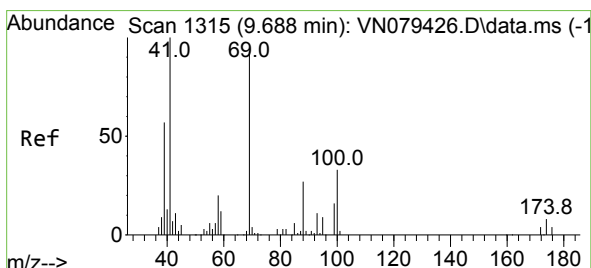
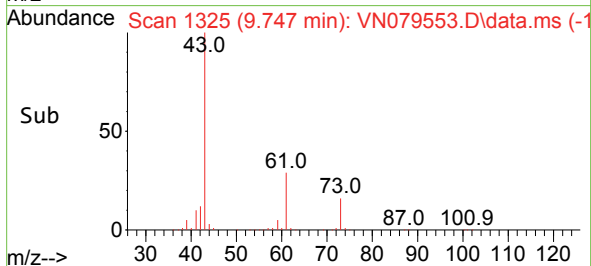
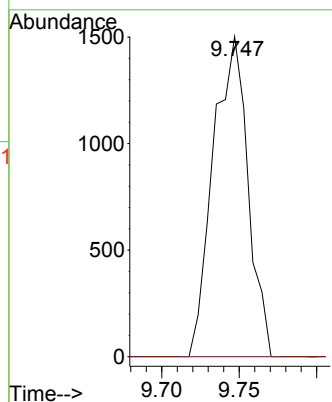
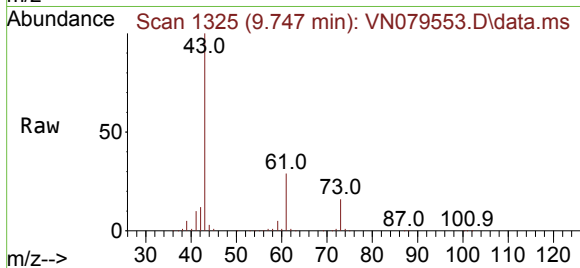
ClientSampleId :

Tgt Ion: 63 Resp: 2342

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 54.023 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

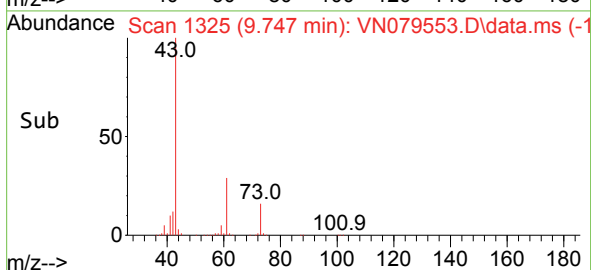
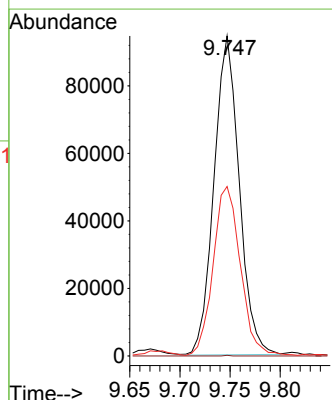
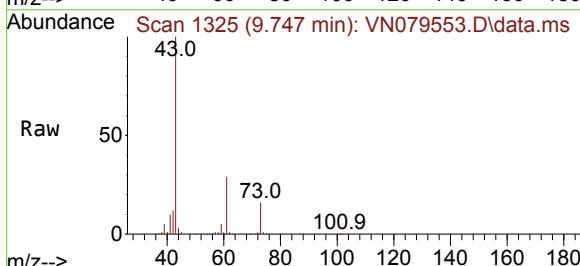
Tgt Ion: 41 Resp: 165255

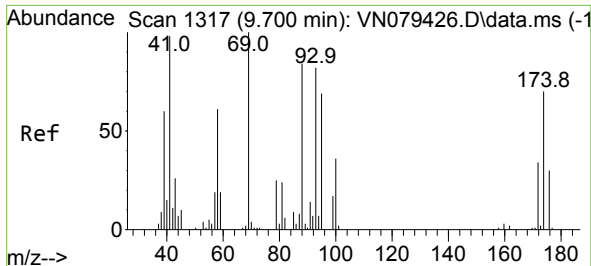
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 57.0 54.6 81.8





#49

1,4-Dioxane

Concen: 3.124 ug/l

RT: 9.747 min Scan# 1317

Delta R.T. 0.047 min

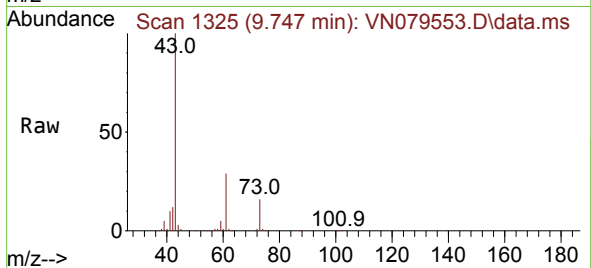
Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :



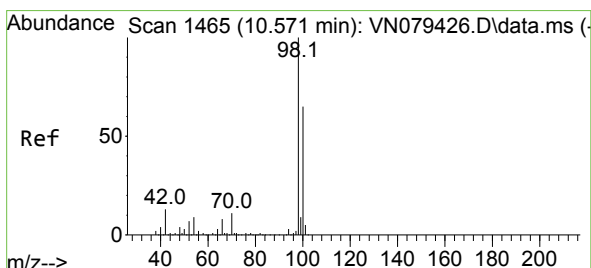
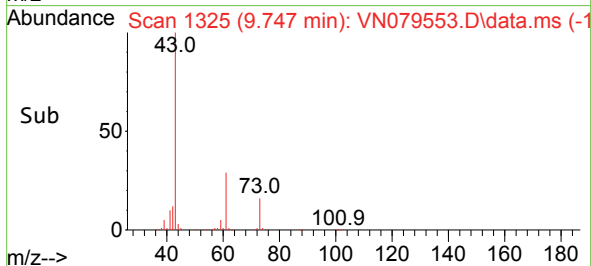
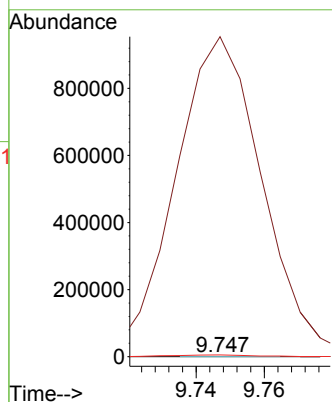
Tgt Ion: 88 Resp: 176

Ion Ratio Lower Upper

88 100

43 974571.6 17.0 25.6#

58 5354.0 47.0 70.4#



#50

Toluene-d8

Concen: 51.014 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079553.D

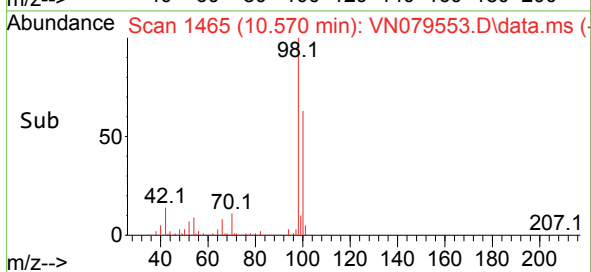
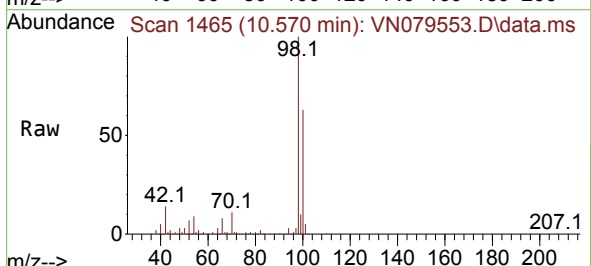
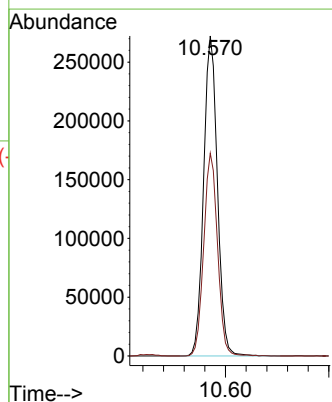
Acq: 12 Oct 2023 18:23

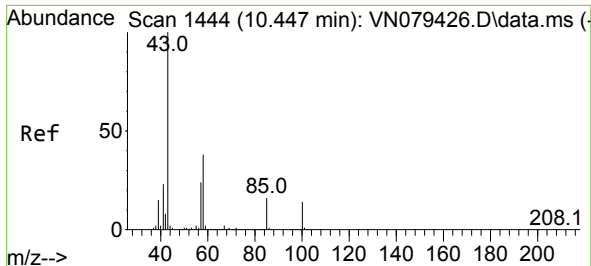
Tgt Ion: 98 Resp: 503616

Ion Ratio Lower Upper

98 100

100 63.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 5.381 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

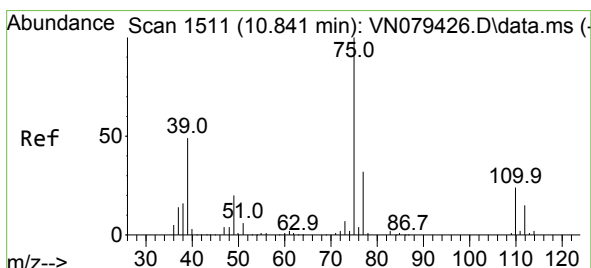
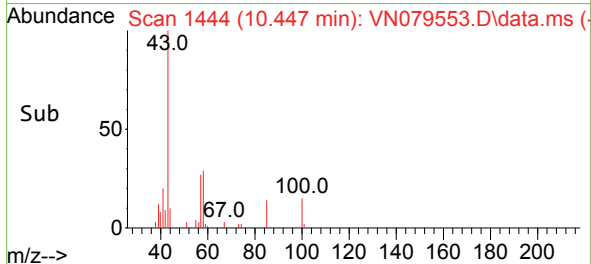
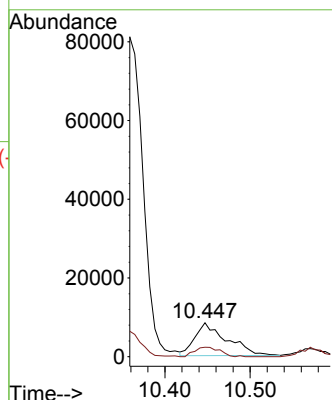
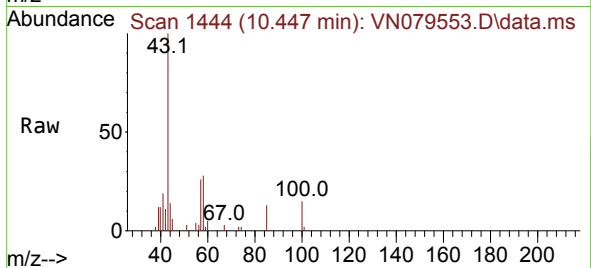
ClientSampleId :

Tgt Ion: 43 Resp: 21682

Ion Ratio Lower Upper

43 100

58 22.6 36.6 54.8#



#53

t-1,3-Dichloropropene

Concen: 0.302 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.112 min

Lab File: VN079553.D

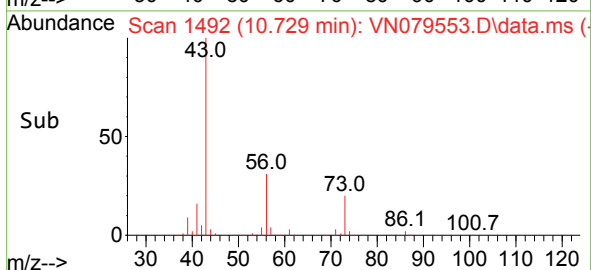
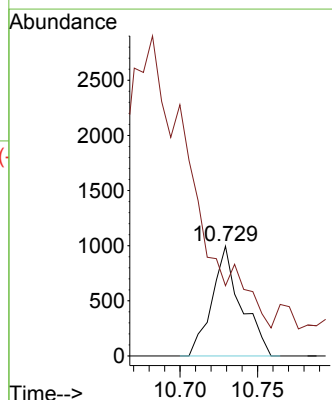
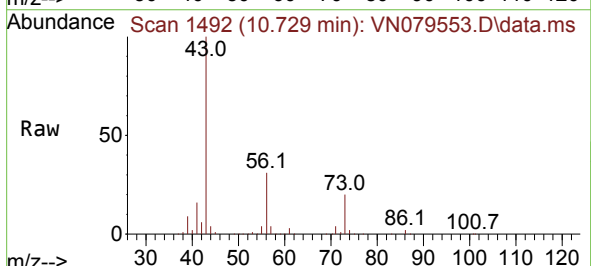
Acq: 12 Oct 2023 18:23

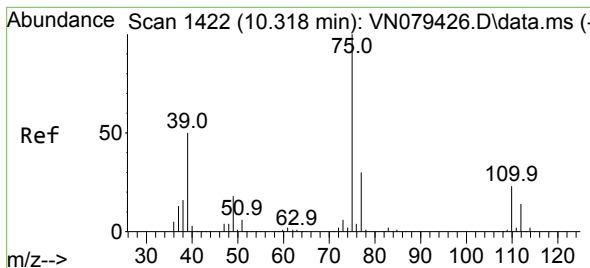
Tgt Ion: 75 Resp: 1300

Ion Ratio Lower Upper

75 100

77 17.0 25.4 38.0#

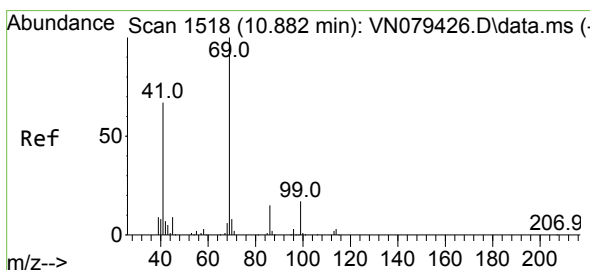
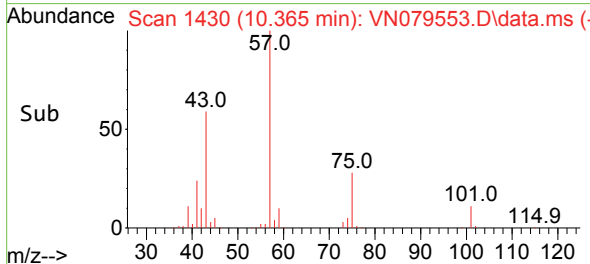
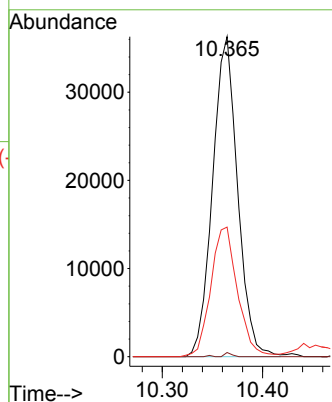
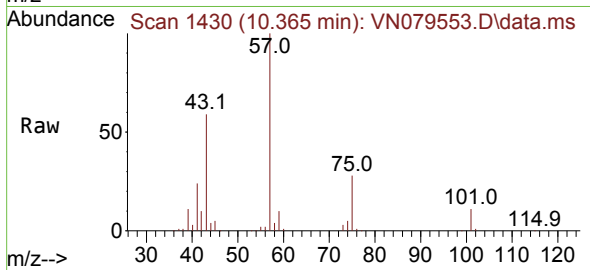




#54
 cis-1,3-Dichloropropene
 Concen: 13.347 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN079553.D
 Acq: 12 Oct 2023 18:23

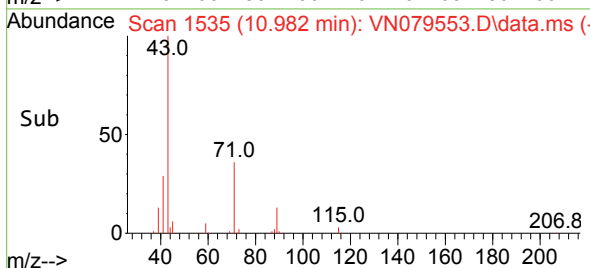
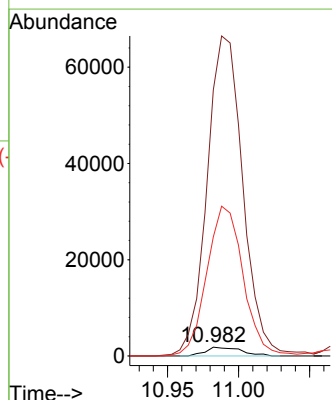
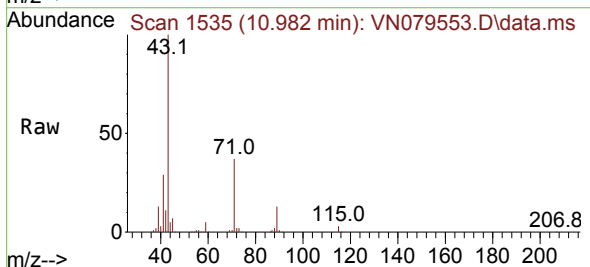
Instrument :
 MSVOA_N
 ClientSampleId :

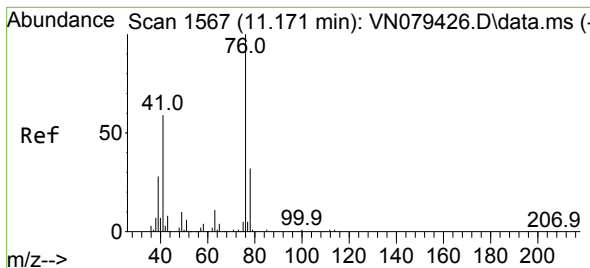
Tgt Ion: 75 Resp: 62857
 Ion Ratio Lower Upper
 75 100
 77 1.3 26.1 39.1#
 39 40.5 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.819 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.100 min
 Lab File: VN079553.D
 Acq: 12 Oct 2023 18:23

Tgt Ion: 69 Resp: 3235
 Ion Ratio Lower Upper
 69 100
 41 3617.9 39.6 59.4#
 39 1712.9 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.676 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN079553.D

Acq: 12 Oct 2023 18:23

Instrument :

MSVOA_N

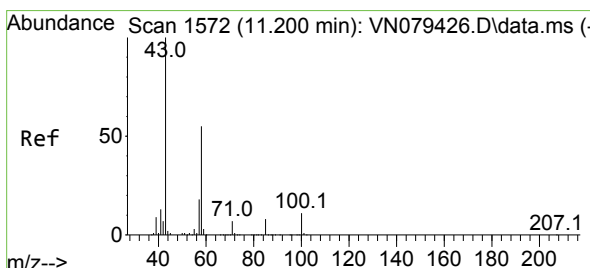
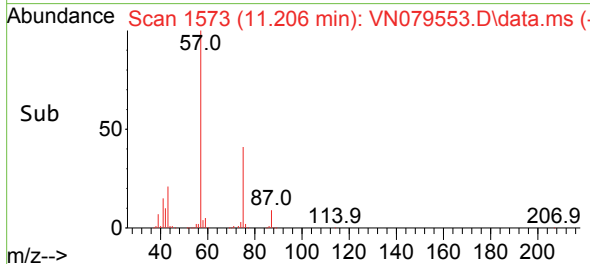
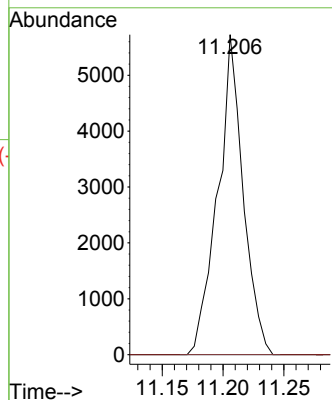
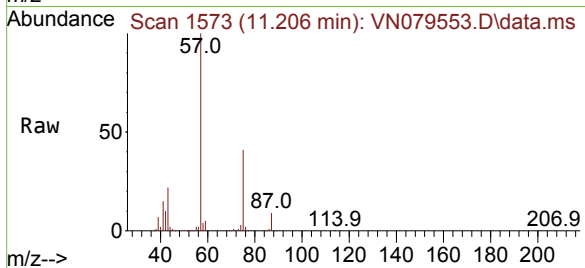
ClientSampleId :

Tgt Ion: 76 Resp: 8319

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 51.745 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN079553.D

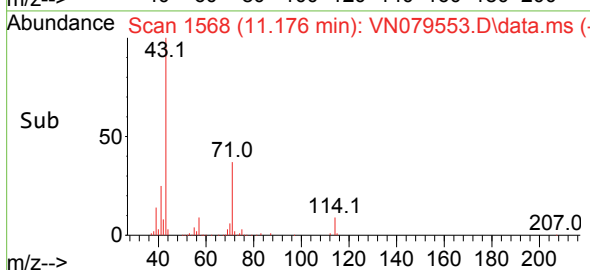
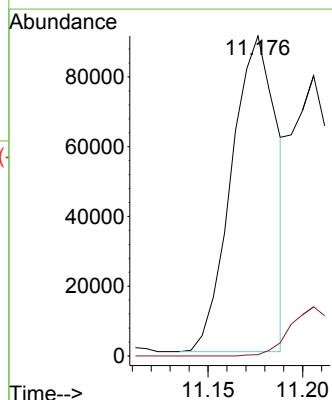
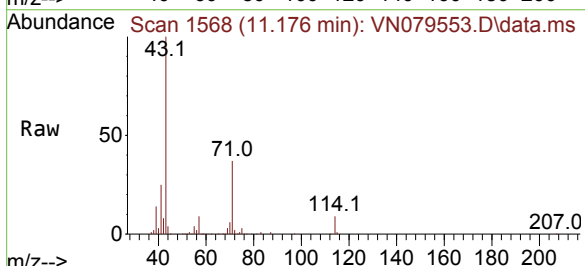
Acq: 12 Oct 2023 18:23

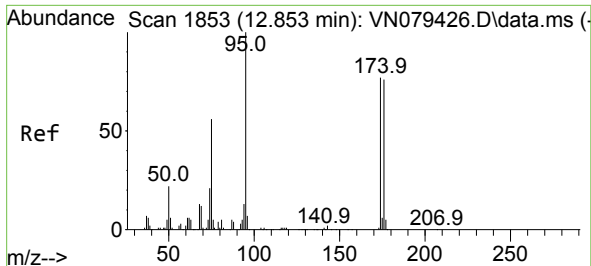
Tgt Ion: 43 Resp: 150467

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

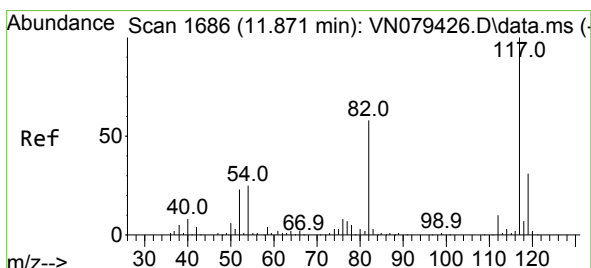
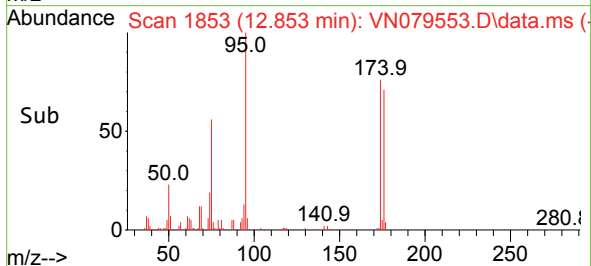
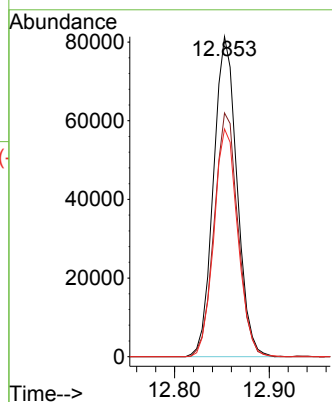
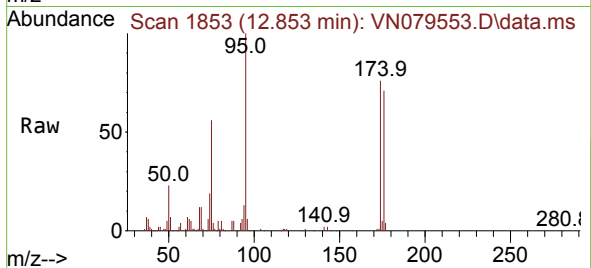




#62
4-Bromofluorobenzene
Concen: 44.321 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

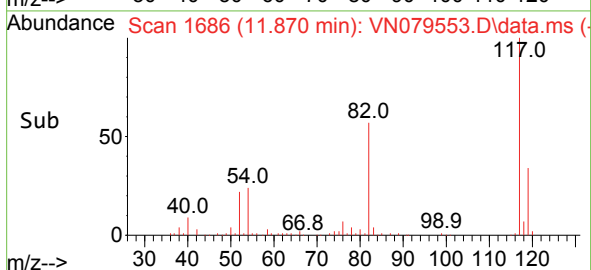
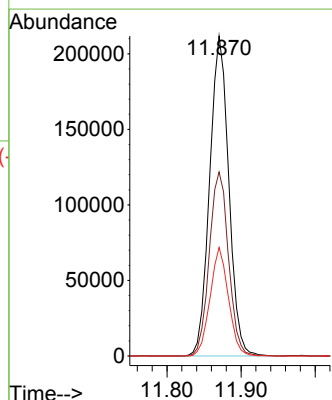
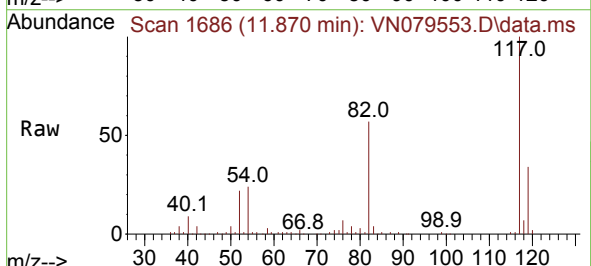
Instrument :
MSVOA_N
ClientSampleId :

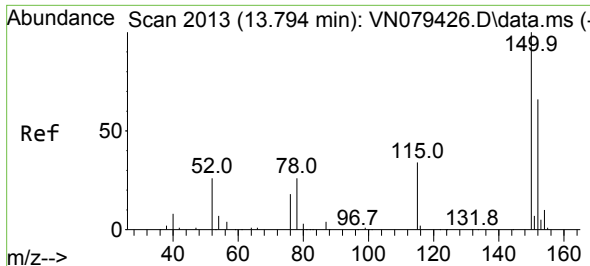
Tgt Ion: 95 Resp: 140416
Ion Ratio Lower Upper
95 100
174 76.9 0.0 143.8
176 72.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Tgt Ion: 117 Resp: 379775
Ion Ratio Lower Upper
117 100
82 57.5 44.0 66.0
119 33.9 25.6 38.4

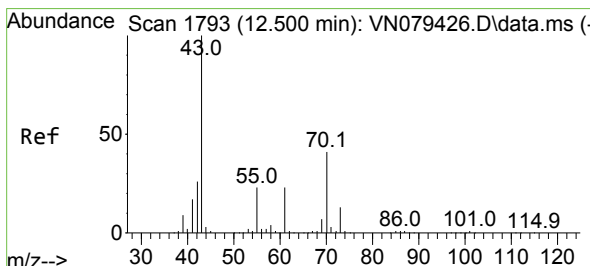
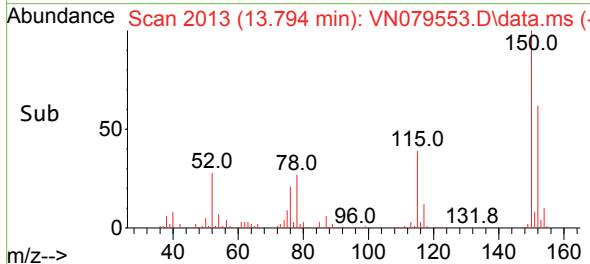
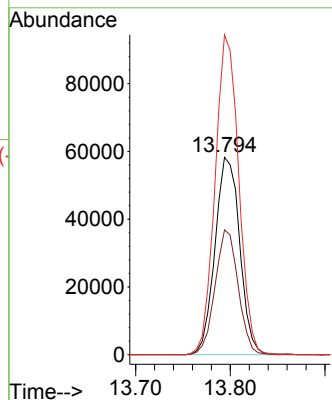
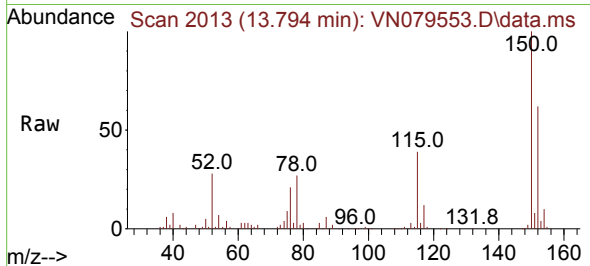




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

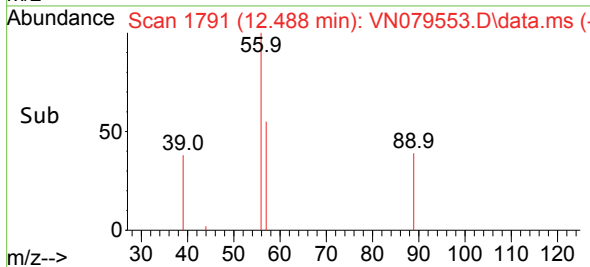
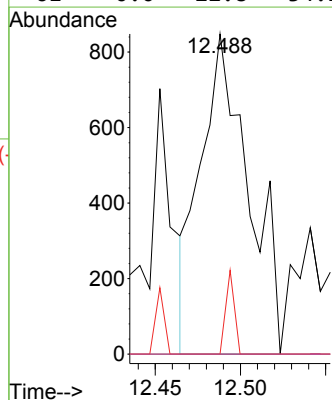
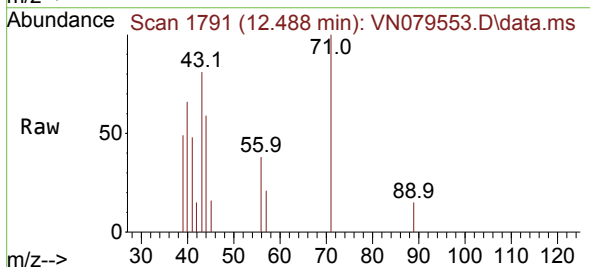
Instrument :
MSVOA_N
ClientSampleId :

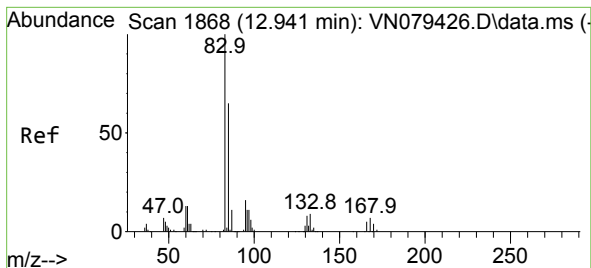
Tgt Ion:152 Resp: 105562
Ion Ratio Lower Upper
152 100
115 59.2 32.3 96.8
150 155.2 0.0 355.8



#74
N-ethyl acetate
Concen: 0.412 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

Tgt Ion: 43 Resp: 1658
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 4.7 21.4 32.0#
61 0.0 22.8 34.2#

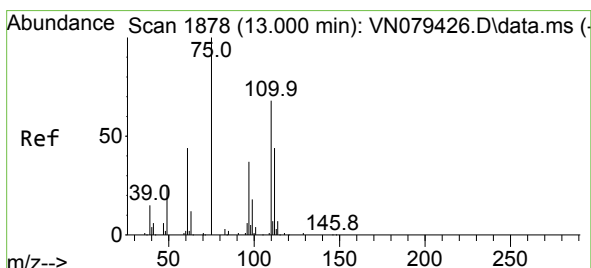
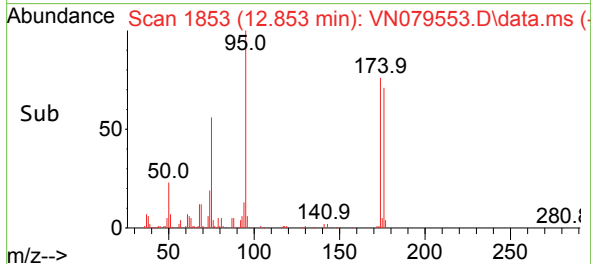
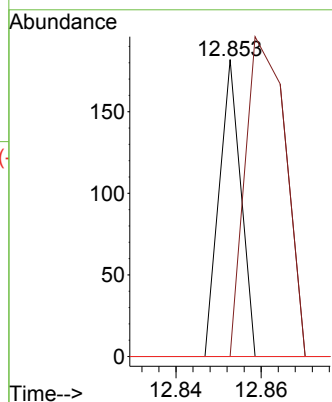
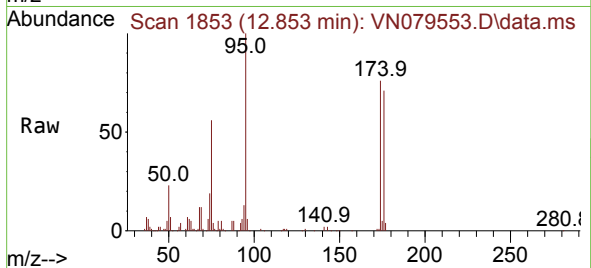




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.853 min Scan# 1853
Delta R.T. -0.088 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

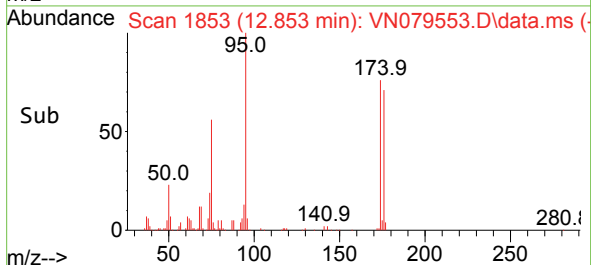
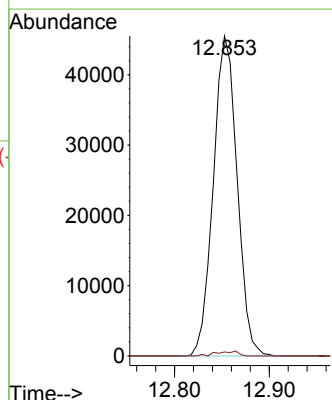
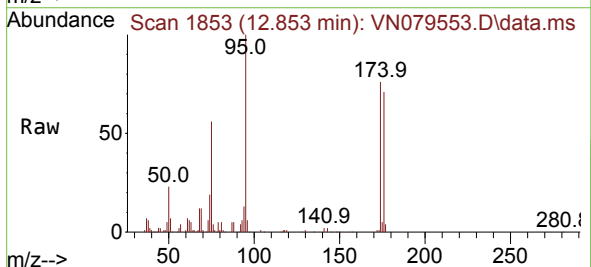
Instrument :
MSVOA_N
ClientSampleId :

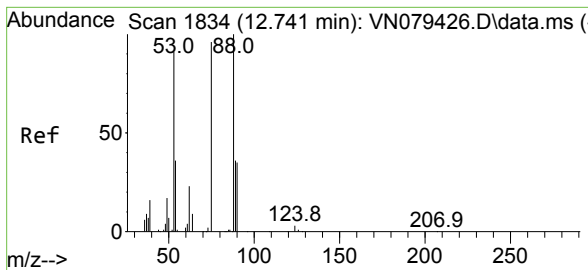
Tgt Ion: 83 Resp: 64
Ion Ratio Lower Upper
83 100
131 200.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 26.112 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079553.D
Acq: 12 Oct 2023 18:23

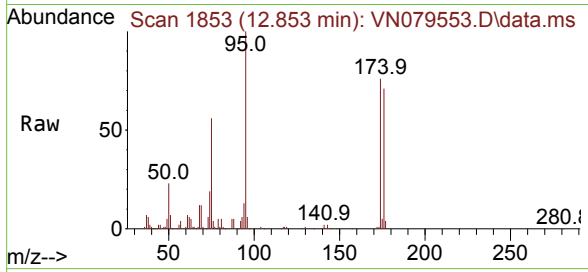
Tgt Ion: 75 Resp: 79476
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.766 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079553.D
 Acq: 12 Oct 2023 18:23

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.1	67.4	101.2#
89	0.1	38.8	58.2#

