

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111822\
 Data File : VN075330.D
 Acq On : 18 Nov 2022 22:16
 Operator : JC\MD
 Sample : PB149142ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 05:15:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

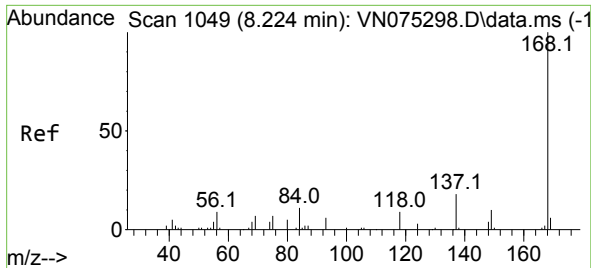
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	172365	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	301832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275307	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120364	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	105332	45.355	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.700%		
35) Dibromofluoromethane	8.171	113	92678	52.304	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.600%		
50) Toluene-d8	10.570	98	350189	50.940	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.880%		
62) 4-Bromofluorobenzene	12.847	95	116482	48.235	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.460%		
Target Compounds						
					Qvalue	
6) Chloroethane	3.136	64	538	0.221	ug/l #	45
8) Diethyl Ether	3.977	74	2198	1.736	ug/l	86
11) Tert butyl alcohol	5.512	59	1571	2.901	ug/l #	72
16) Acetone	4.441	43	53112	54.010	ug/l	91
18) Methyl Acetate	5.041	43	3835	1.194	ug/l #	89
20) Methylene Chloride	5.283	84	16429	7.493	ug/l	94
25) 2-Butanone	7.494	43	1529	0.989	ug/l	92
29) Tetrahydrofuran	7.571	42	1229	1.230	ug/l #	26
31) Cyclohexane	8.229	56	3194	0.925	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	12410	4.524	ug/l #	50
37) Ethyl Acetate	7.571	43	23494	7.809	ug/l	98
38) Carbon Tetrachloride	8.229	117	17247	5.716	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	692	0.226	ug/l #	75
43) Isopropyl Acetate	8.694	43	140410	30.089	ug/l #	83
45) 1,2-Dichloropropane	9.747	63	1344	0.672	ug/l #	42
48) Methyl methacrylate	9.741	41	87524	40.888	ug/l #	33
49) 1,4-Dioxane	9.747	88	80	1.427	ug/l #	1
51) 4-Methyl-2-Pentanone	10.359	43	79976	26.559	ug/l #	44
53) t-1,3-Dichloropropene	10.723	75	825	0.259	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	45512	13.480	ug/l #	63
56) Ethyl methacrylate	10.988	69	776	0.229	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5637	1.520	ug/l #	42
59) 2-Hexanone	11.170	43	89461	39.143	ug/l #	21
71) Bromoform	12.847	173	954	0.585	ug/l #	1
74) N-amyl acetate	12.488	43	814	0.228	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	58914	23.052	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	58914	59.175	ug/l #	10

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

Quant Time: Nov 19 05:15:44 2022
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Quant Title : SW846 8260
QLast Update : Thu Oct 27 09:48:49 2022
Response via : Initial Calibration

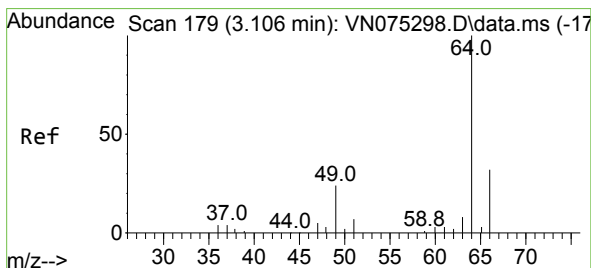
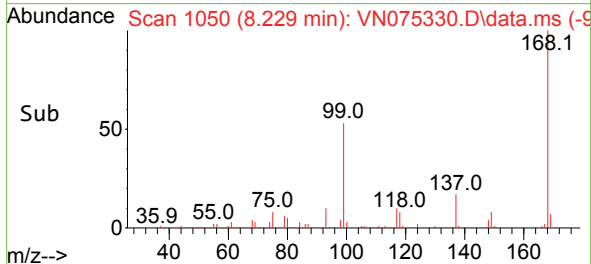
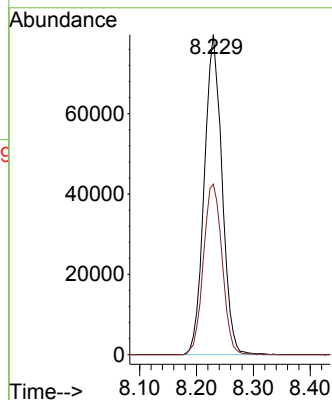
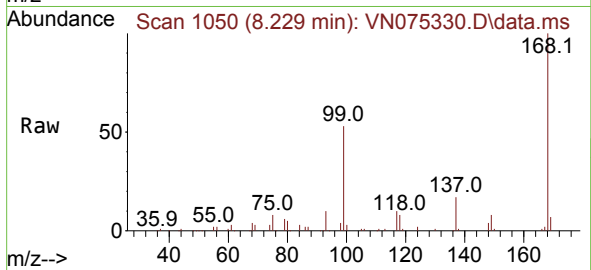




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1049
Delta R.T. -0.001 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

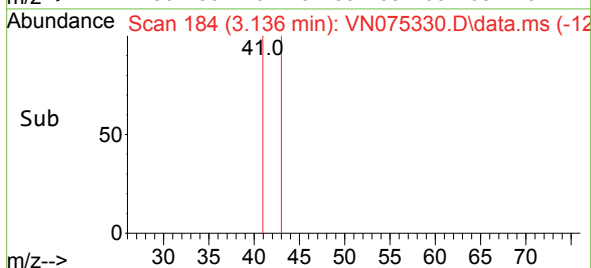
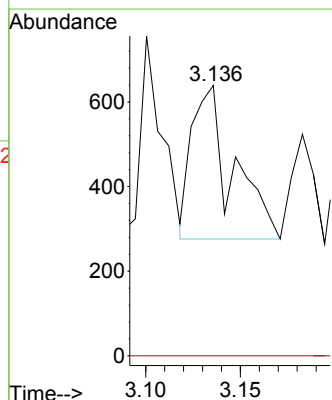
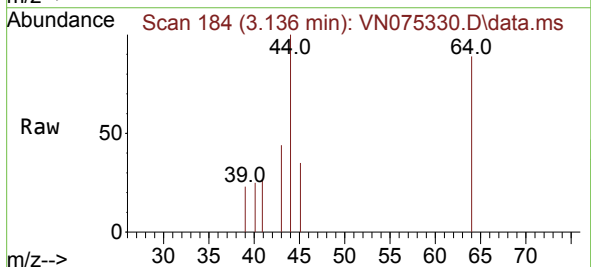
Instrument :
MSVOA_N
ClientSampleId :

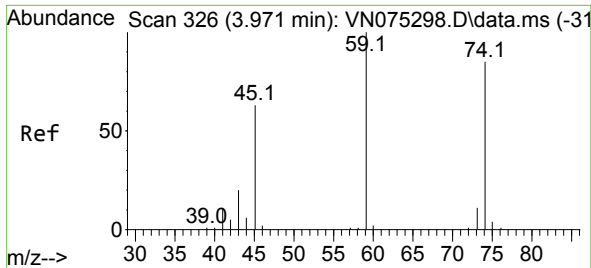
Tgt Ion:168 Resp: 172365
Ion Ratio Lower Upper
168 100
99 53.3 51.6 77.4



#6
Chloroethane
Concen: 0.221 ug/l
RT: 3.136 min Scan# 184
Delta R.T. 0.041 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

Tgt Ion: 64 Resp: 538
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#

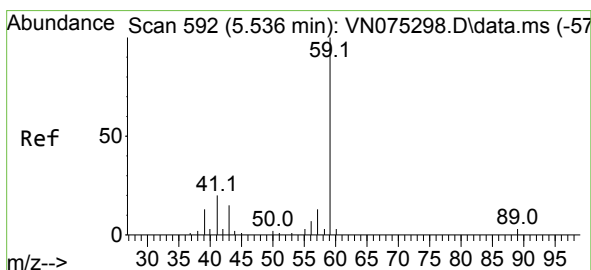
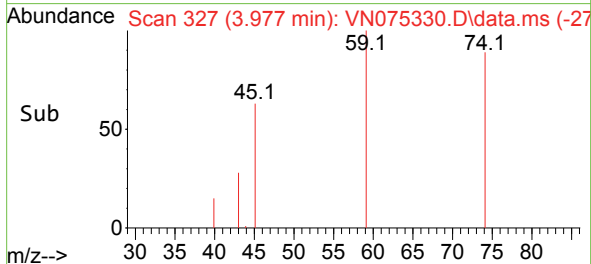
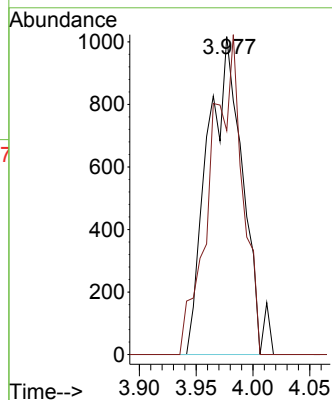
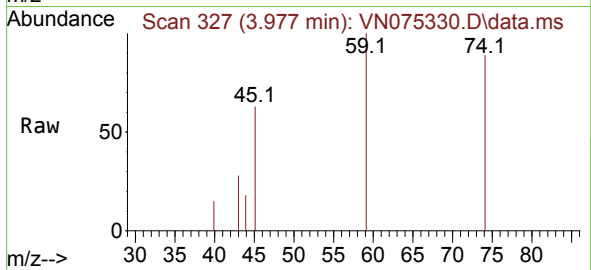




#8
Diethyl Ether
Concen: 1.736 ug/l
RT: 3.977 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

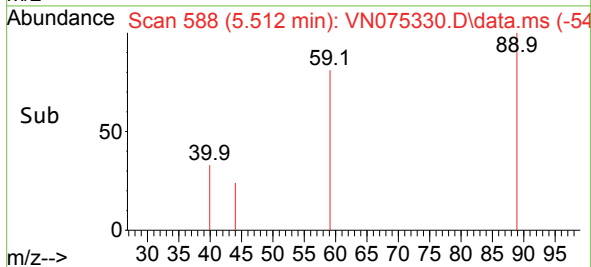
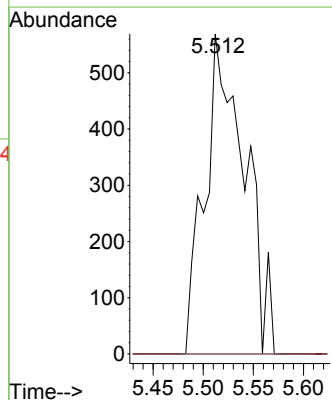
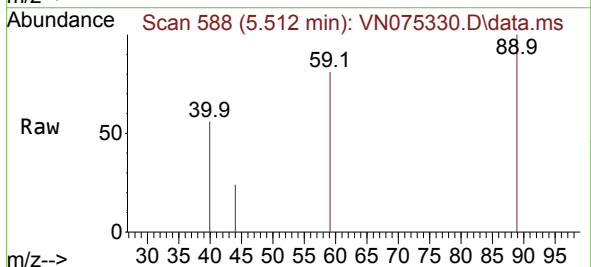
Instrument :
MSVOA_N
ClientSampleId :

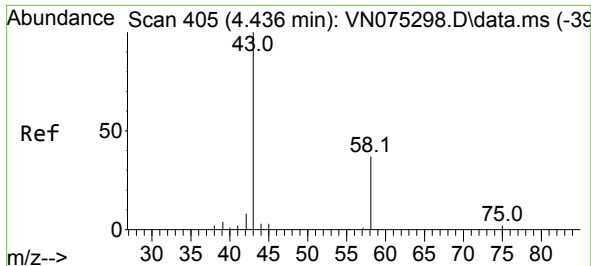
Tgt Ion: 74 Resp: 2198
Ion Ratio Lower Upper
74 100
45 91.0 39.3 117.9



#11
Tert butyl alcohol
Concen: 2.901 ug/l
RT: 5.512 min Scan# 588
Delta R.T. -0.030 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

Tgt Ion: 59 Resp: 1571
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

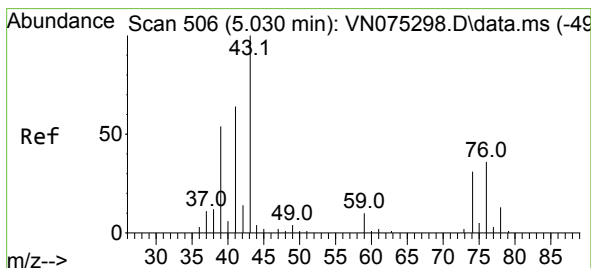
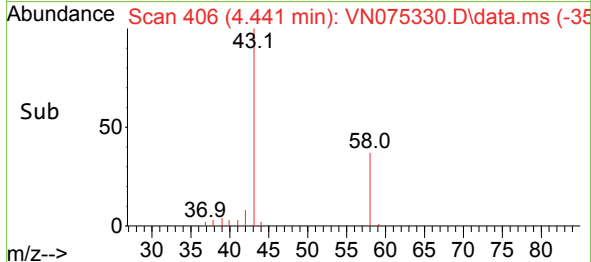
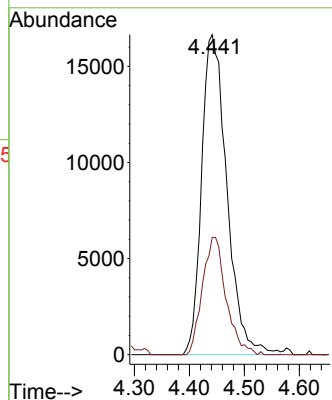
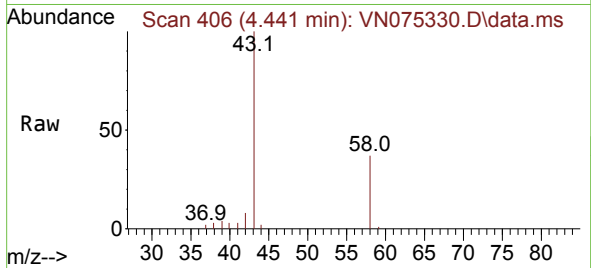




#16
Acetone
Concen: 54.010 ug/l
RT: 4.441 min Scan# 406
Delta R.T. -0.001 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

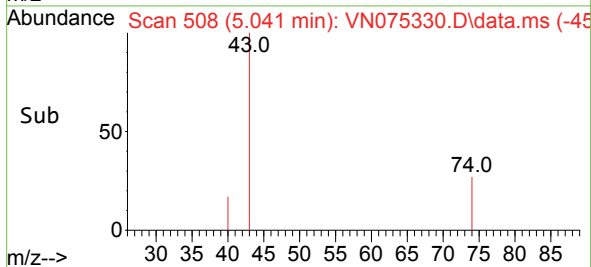
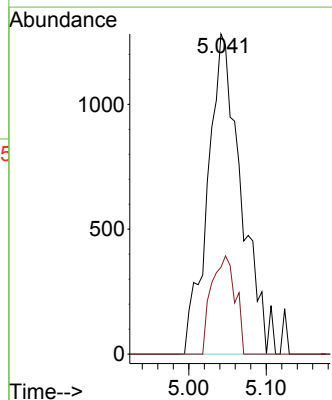
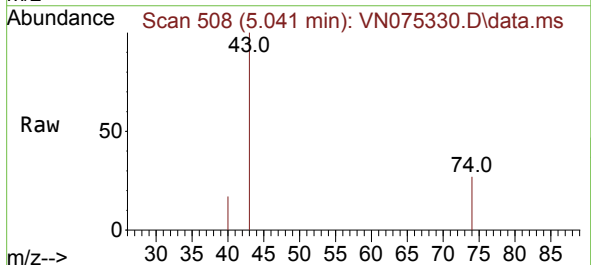
Instrument :
MSVOA_N
ClientSampleId :

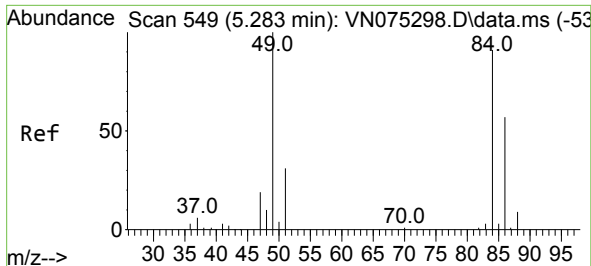
Tgt Ion: 43 Resp: 53112
Ion Ratio Lower Upper
43 100
58 36.6 25.5 38.3



#18
Methyl Acetate
Concen: 1.194 ug/l
RT: 5.041 min Scan# 508
Delta R.T. -0.001 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

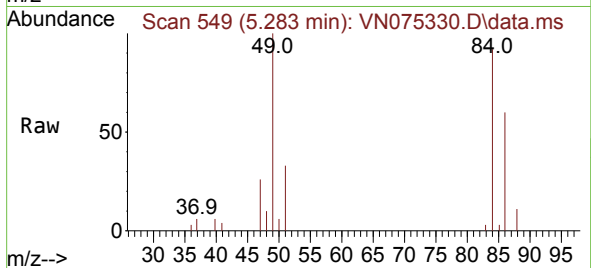
Tgt Ion: 43 Resp: 3835
Ion Ratio Lower Upper
43 100
74 21.8 22.0 33.0#



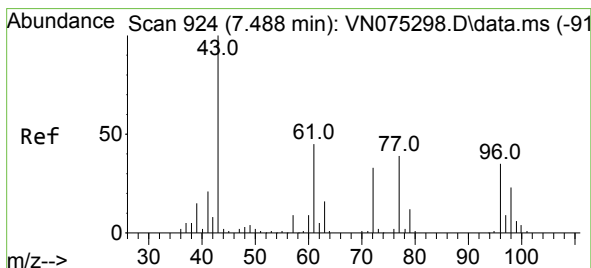
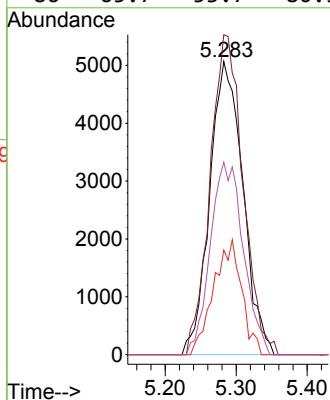
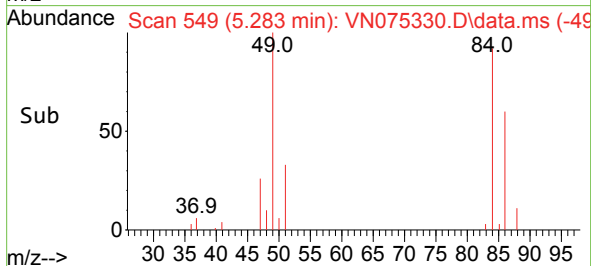


#20
Methylene Chloride
Concen: 7.493 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

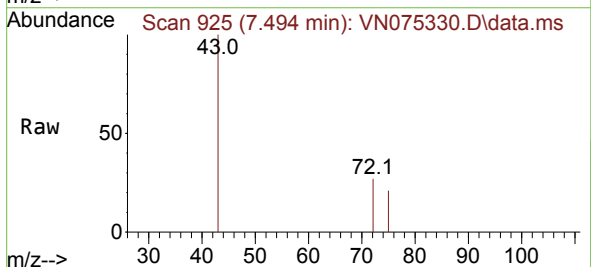
Instrument :
MSVOA_N
ClientSampleId :



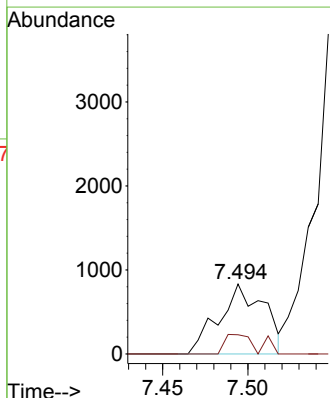
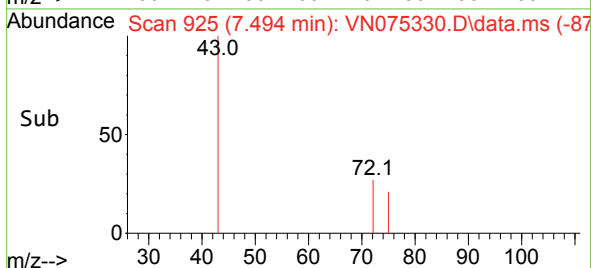
Tgt Ion:	84	Resp:	16429
Ion	Ratio	Lower	Upper
84	100		
49	109.2	94.9	142.3
51	35.6	26.8	40.2
86	65.7	53.7	80.5

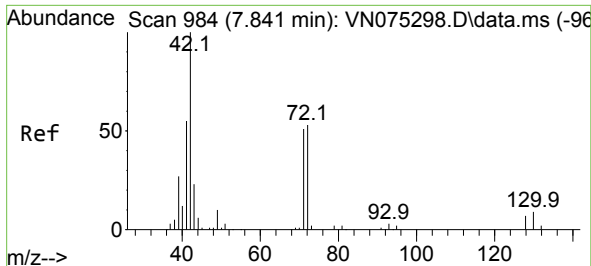


#25
2-Butanone
Concen: 0.989 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.000 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16



Tgt Ion:	43	Resp:	1529
Ion	Ratio	Lower	Upper
43	100		
72	27.5	25.5	38.3





#29

Tetrahydrofuran

Concen: 1.230 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.276 min

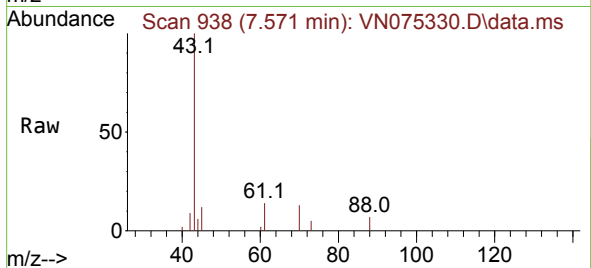
Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

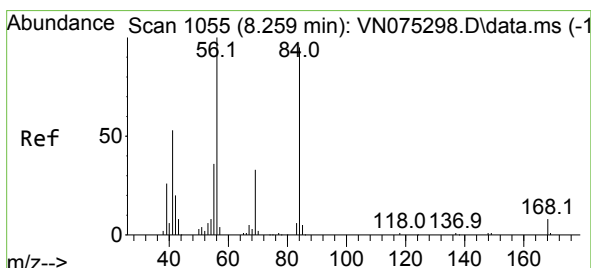
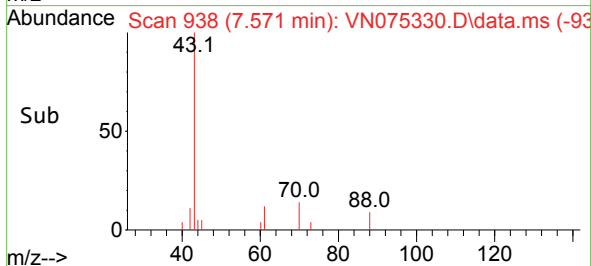
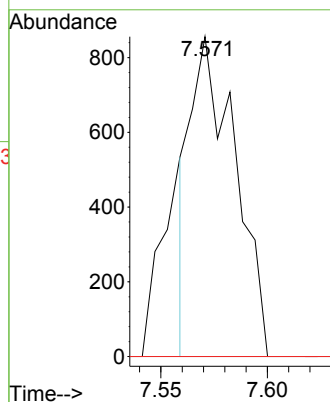
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1229
Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.6#
71	0.0	39.9	59.9#



#31

Cyclohexane

Concen: 0.925 ug/l

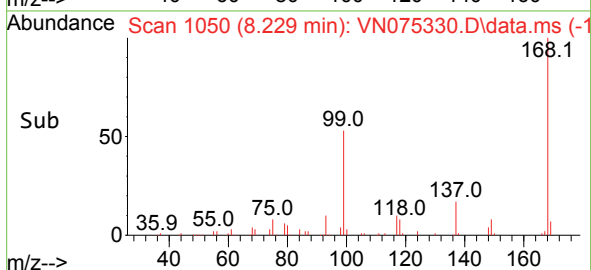
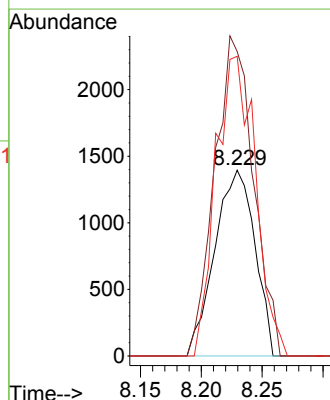
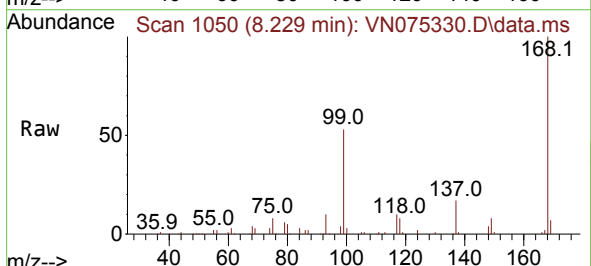
RT: 8.229 min Scan# 1050

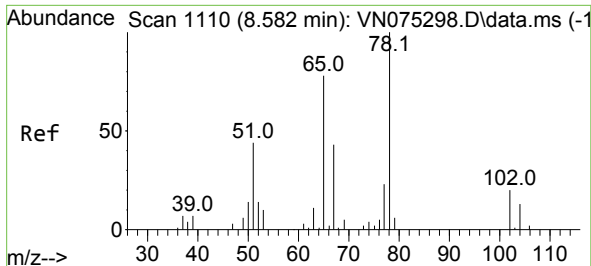
Delta R.T. -0.030 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Tgt Ion:	56	Resp:	3194
Ion	Ratio	Lower	Upper
56	100		
69	163.9	25.2	37.8#
84	161.3	77.8	116.8#





#33

1,2-Dichloroethane-d4

Concen: 45.355 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.006 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

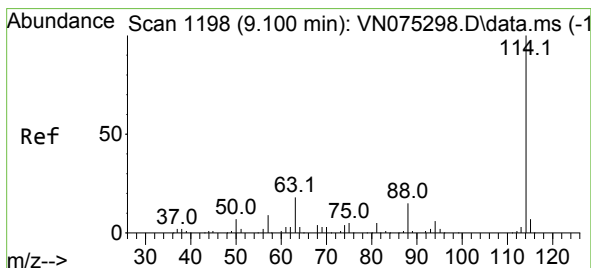
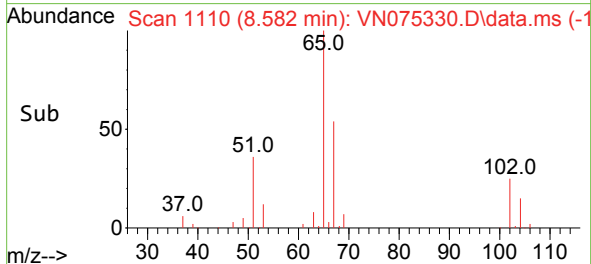
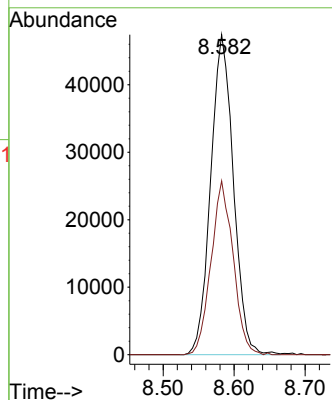
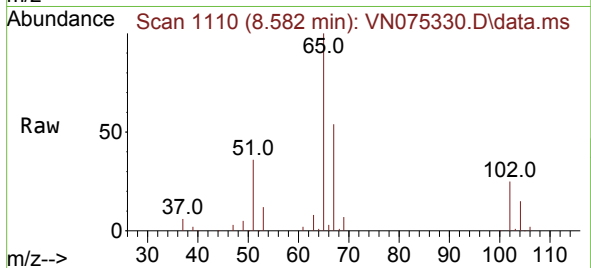
ClientSampleId :

Tgt Ion: 65 Resp: 105332

Ion Ratio Lower Upper

65 100

67 52.8 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

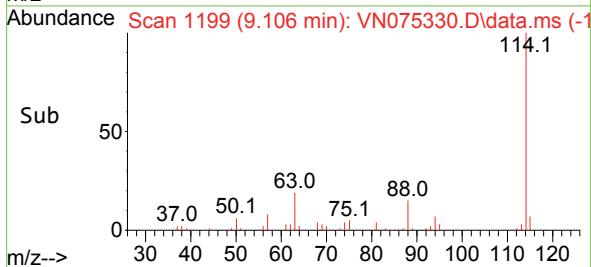
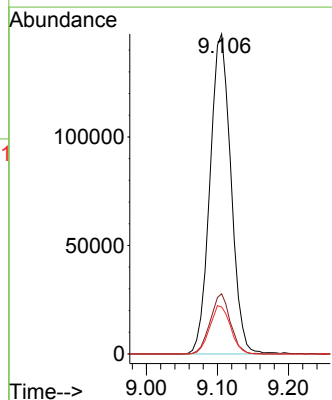
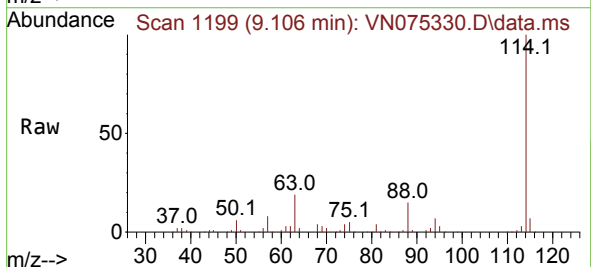
Tgt Ion: 114 Resp: 301832

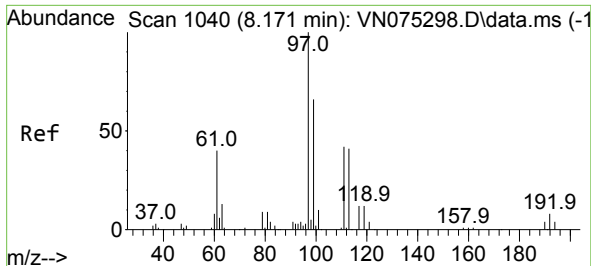
Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

88 14.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 52.304 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

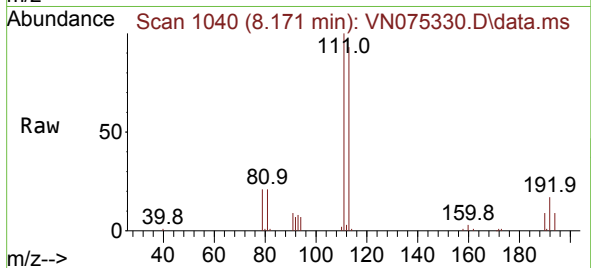
Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

ClientSampleId :



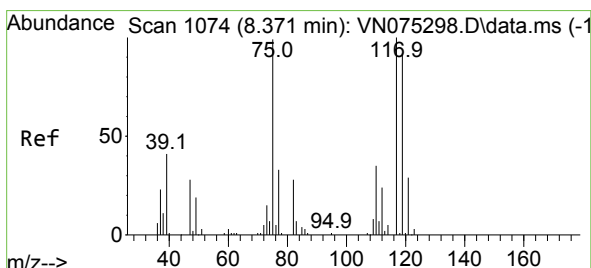
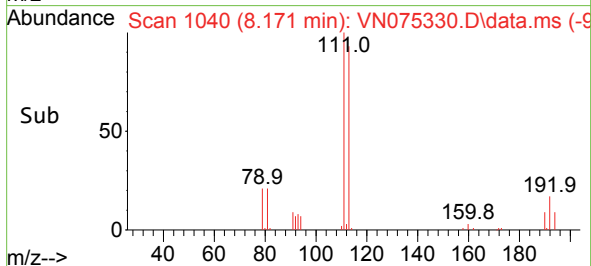
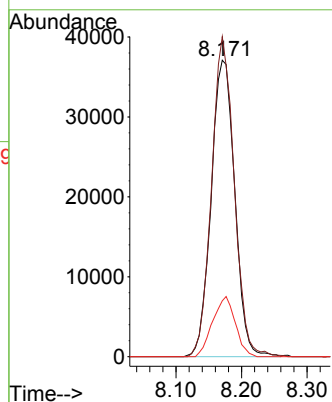
Tgt Ion:113 Resp: 92678

Ion Ratio Lower Upper

113 100

111 103.4 80.5 120.7

192 19.5 13.2 19.8



#36

1,1-Dichloropropene

Concen: 4.524 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.148 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

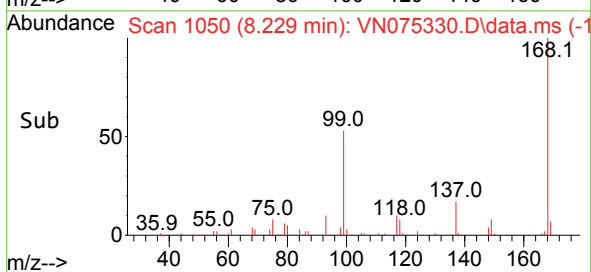
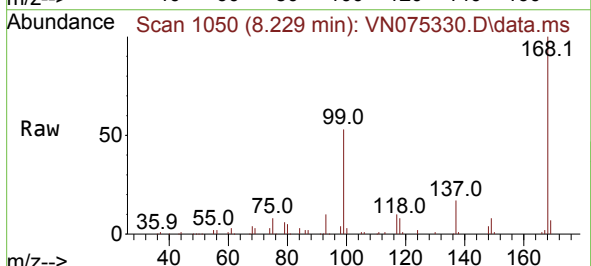
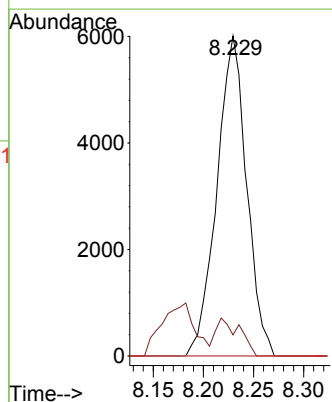
Tgt Ion: 75 Resp: 12410

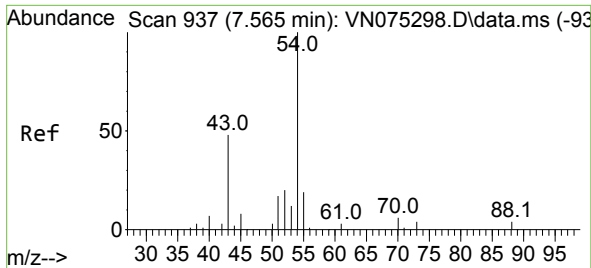
Ion Ratio Lower Upper

75 100

110 9.5 17.8 53.3#

77 0.0 24.6 37.0#

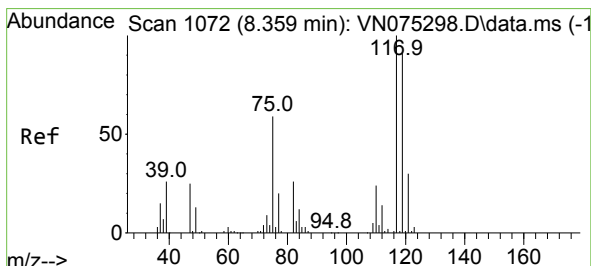
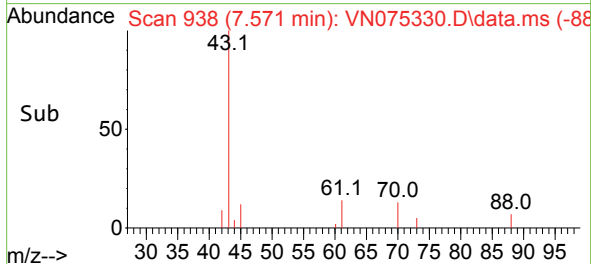
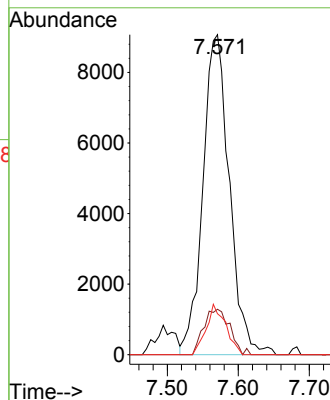
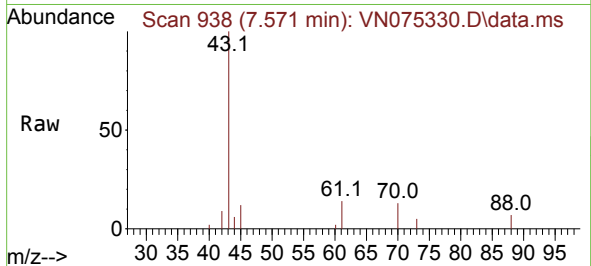




#37
Ethyl Acetate
Concen: 7.809 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

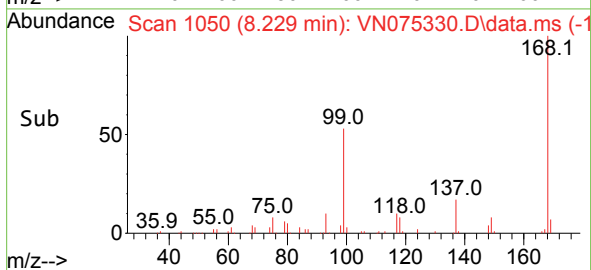
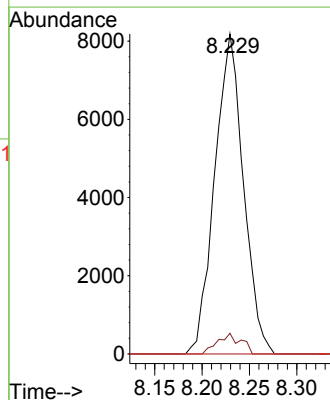
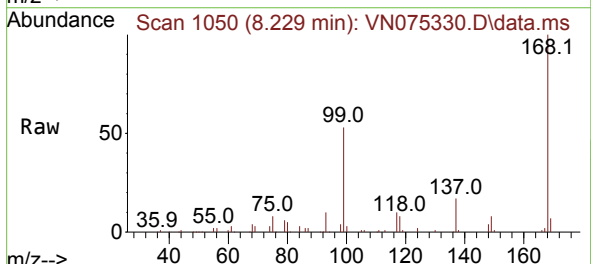
Instrument :
MSVOA_N
ClientSampleId :

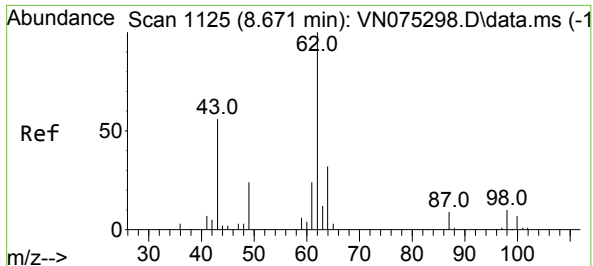
Tgt Ion:	43	Resp:	23494
Ion	Ratio	Lower	Upper
43	100		
61	14.0	12.2	18.4
70	11.6	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.716 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.142 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

Tgt Ion:	117	Resp:	17247
Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.7	115.1#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.226 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

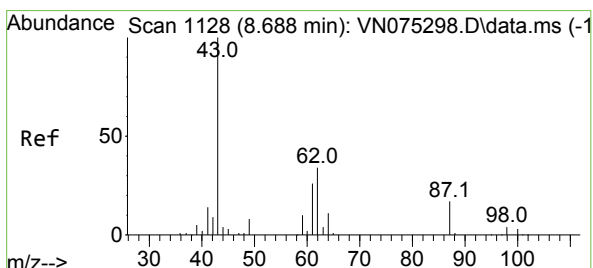
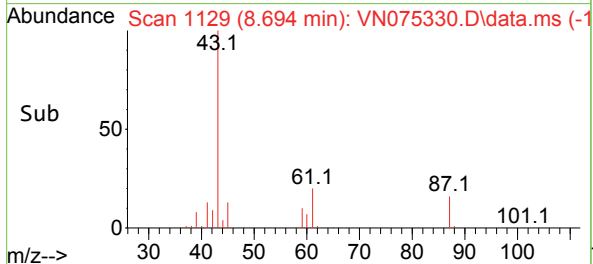
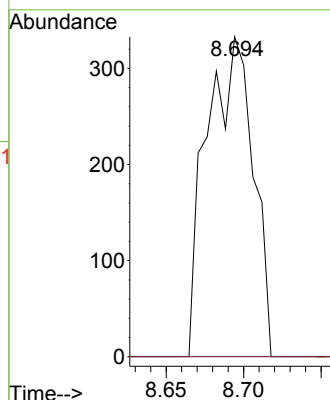
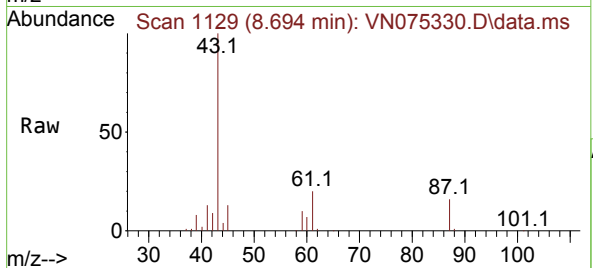
ClientSampleId :

Tgt Ion: 62 Resp: 692

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 30.089 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

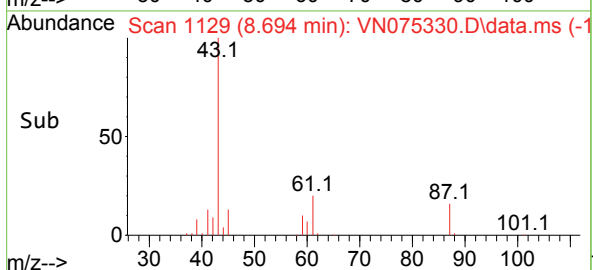
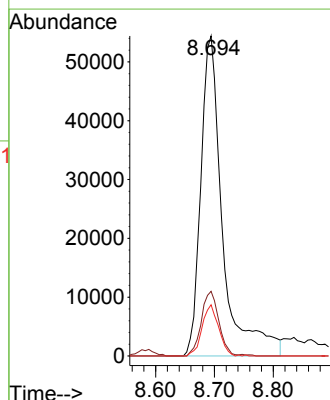
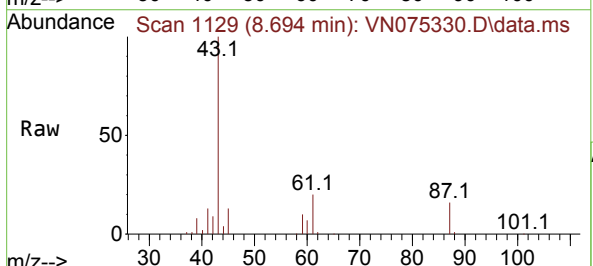
Tgt Ion: 43 Resp: 140410

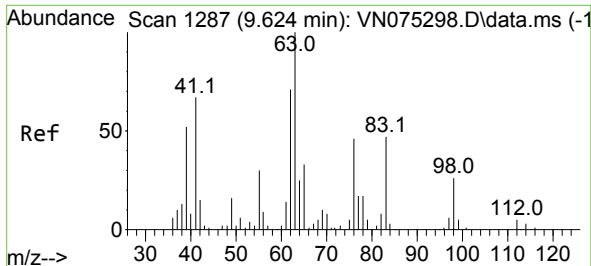
Ion Ratio Lower Upper

43 100

61 16.2 22.4 33.6#

87 12.2 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.672 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

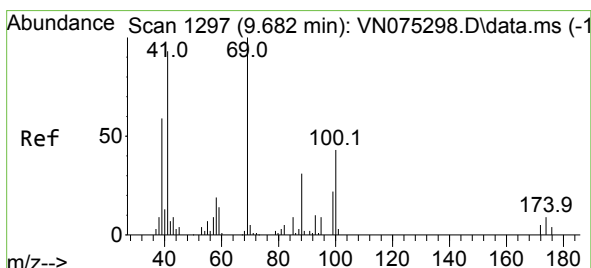
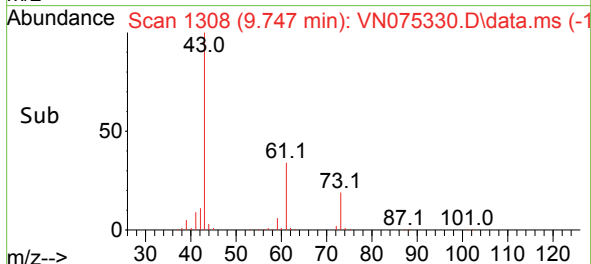
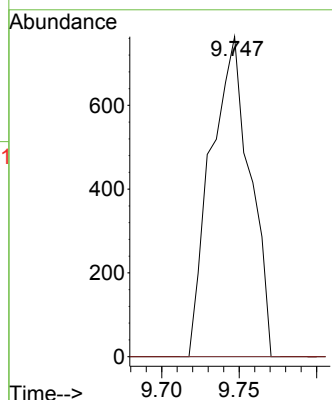
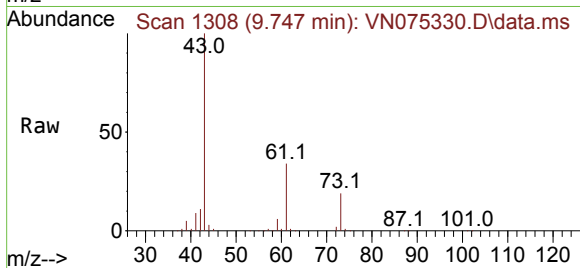
ClientSampleId :

Tgt Ion: 63 Resp: 1344

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 40.888 ug/l

RT: 9.741 min Scan# 1307

Delta R.T. 0.059 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

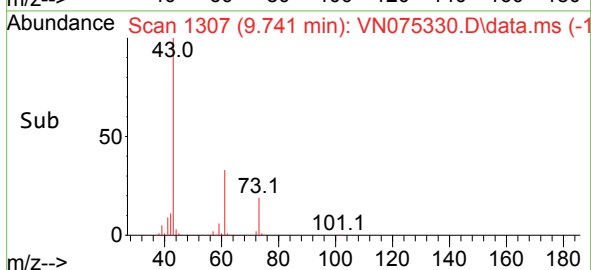
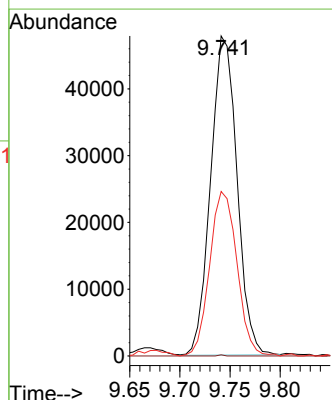
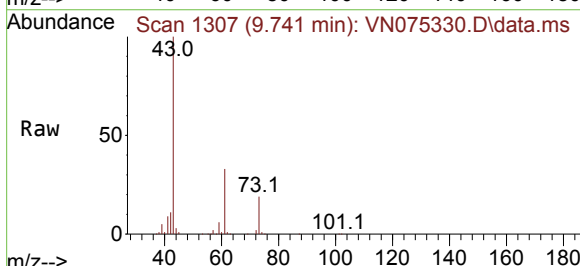
Tgt Ion: 41 Resp: 87524

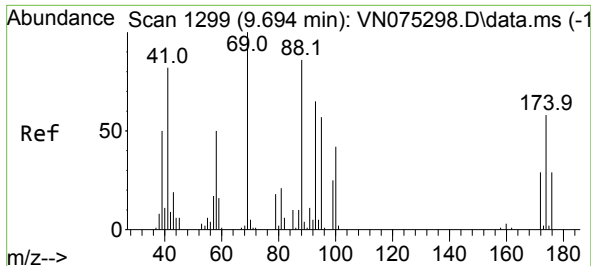
Ion Ratio Lower Upper

41 100

69 0.1 80.2 120.2#

39 53.3 56.2 84.2#





#49

1,4-Dioxane

Concen: 1.427 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

ClientSampleId :

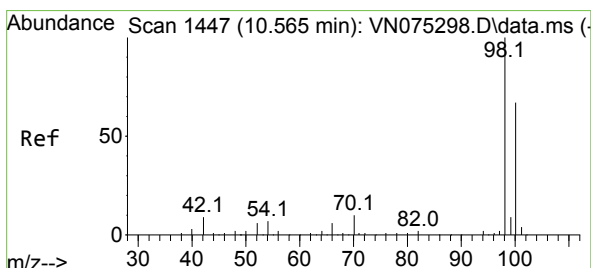
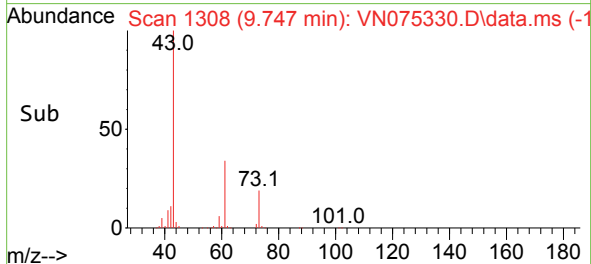
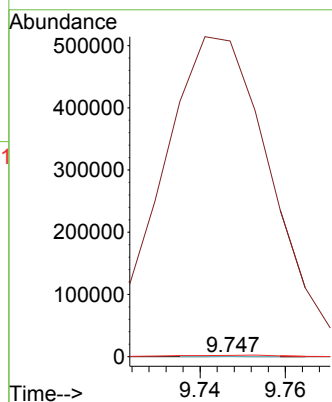
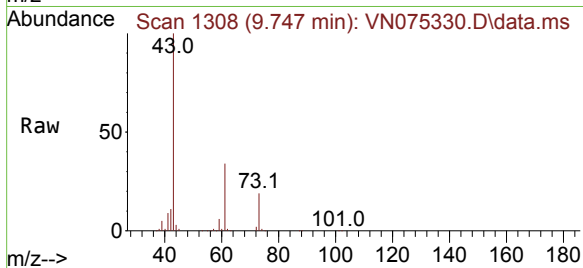
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 1182693.8 17.5 26.3#

58 5270.0 49.8 74.8#



#50

Toluene-d8

Concen: 50.940 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. -0.001 min

Lab File: VN075330.D

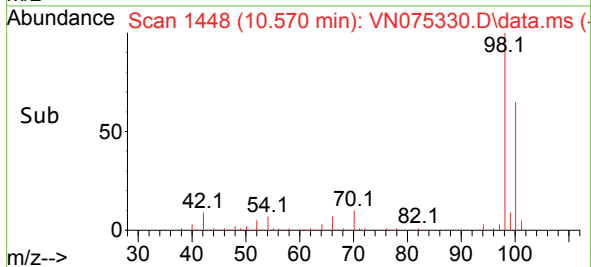
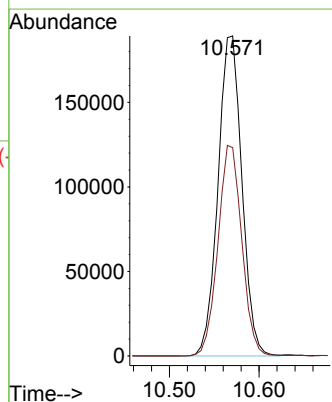
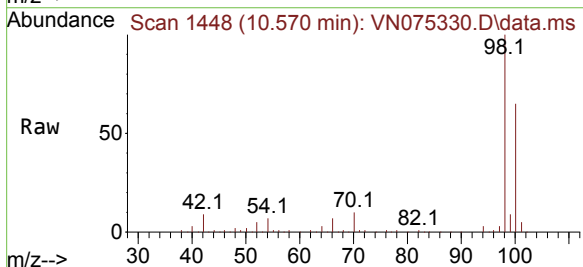
Acq: 18 Nov 2022 22:16

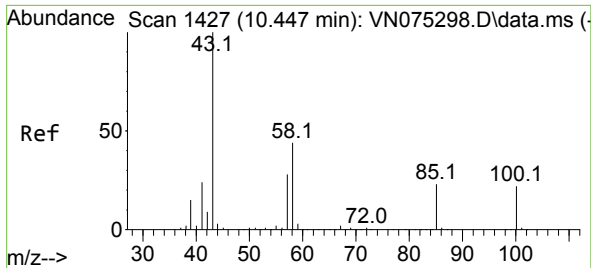
Tgt Ion: 98 Resp: 350189

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.6

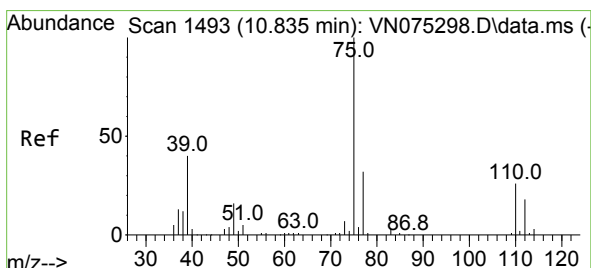
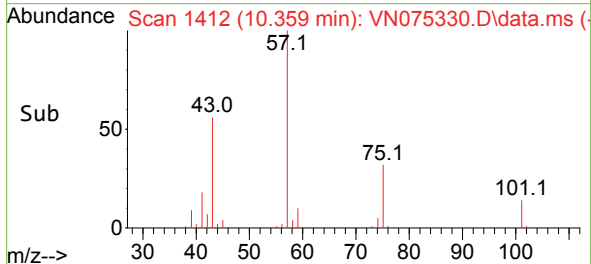
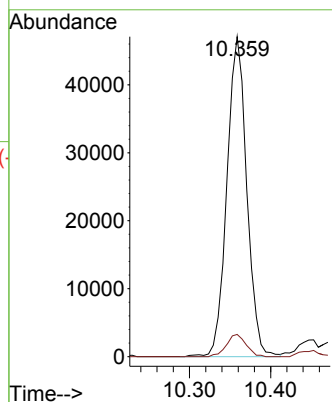
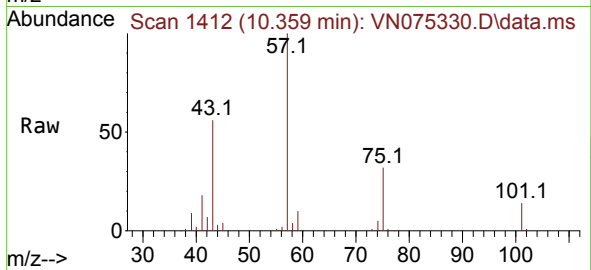




#51
4-Methyl-2-Pentanone
Concen: 26.559 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. -0.088 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

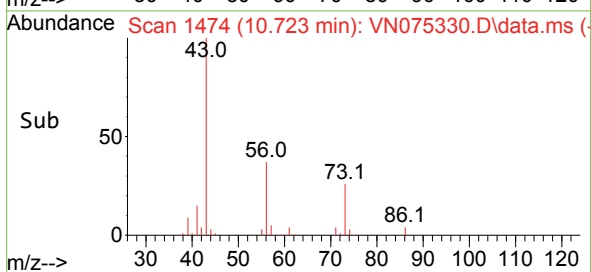
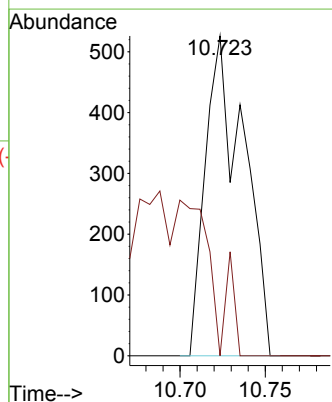
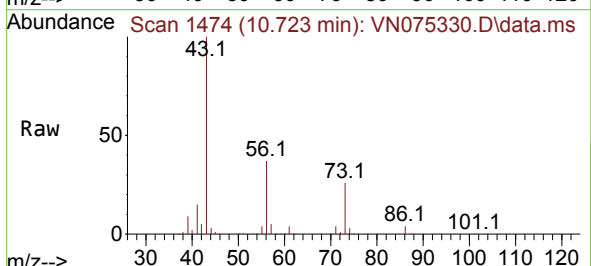
Instrument :
MSVOA_N
ClientSampleId :

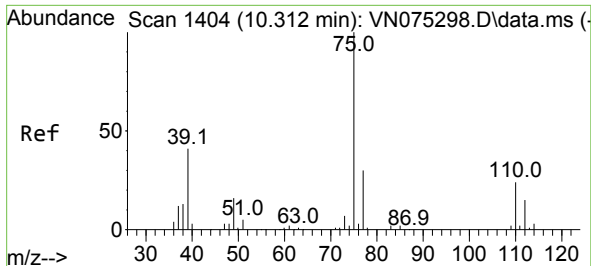
Tgt Ion: 43 Resp: 79976
Ion Ratio Lower Upper
43 100
58 6.9 33.6 50.4#



#53
t-1,3-Dichloropropene
Concen: 0.259 ug/l
RT: 10.723 min Scan# 1474
Delta R.T. -0.118 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

Tgt Ion: 75 Resp: 825
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#

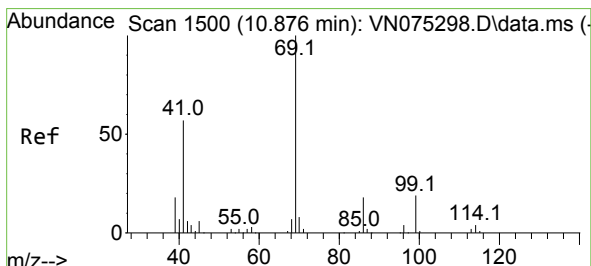
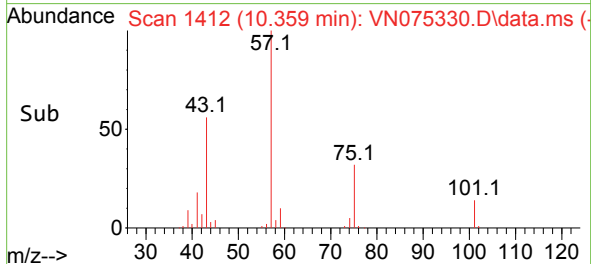
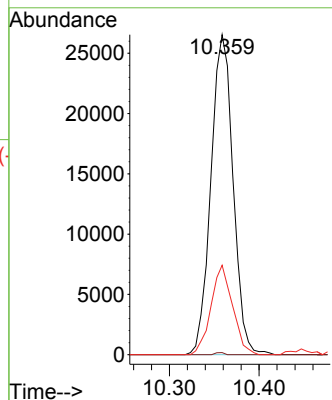
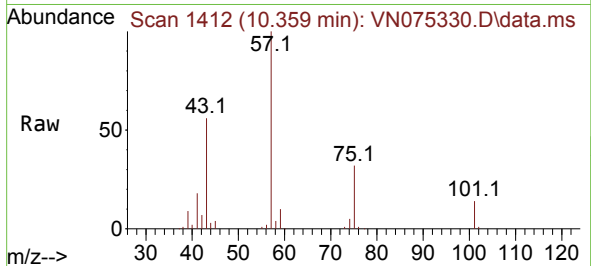




#54
 cis-1,3-Dichloropropene
 Concen: 13.480 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075330.D
 Acq: 18 Nov 2022 22:16

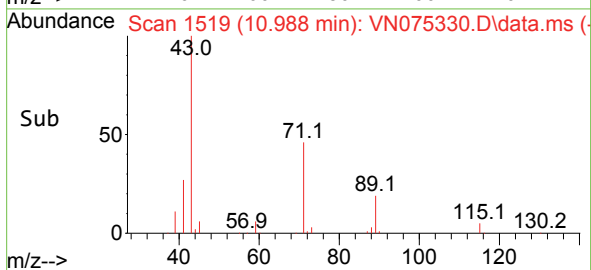
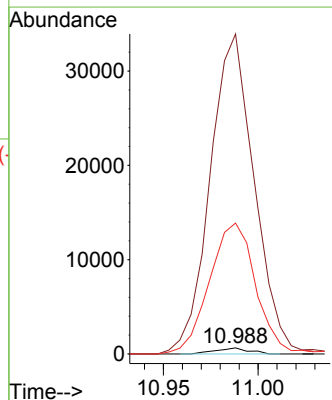
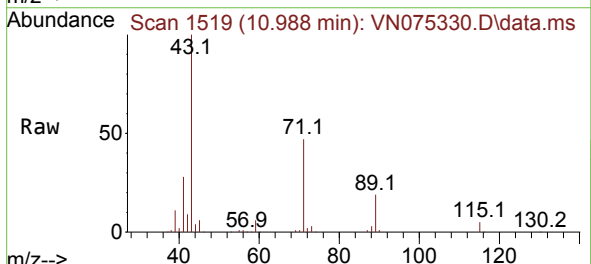
Instrument :
 MSVOA_N
 ClientSampleId :

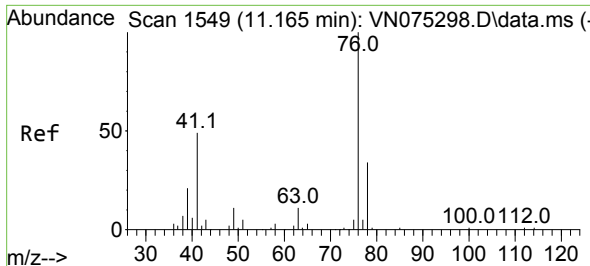
Tgt Ion: 75 Resp: 45512
 Ion Ratio Lower Upper
 75 100
 77 0.7 23.7 35.5#
 39 27.9 35.8 53.6#



#56
 Ethyl methacrylate
 Concen: 0.229 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.111 min
 Lab File: VN075330.D
 Acq: 18 Nov 2022 22:16

Tgt Ion: 69 Resp: 776
 Ion Ratio Lower Upper
 69 100
 41 7147.9 45.6 68.4#
 39 3062.4 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.520 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.035 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

Instrument :

MSVOA_N

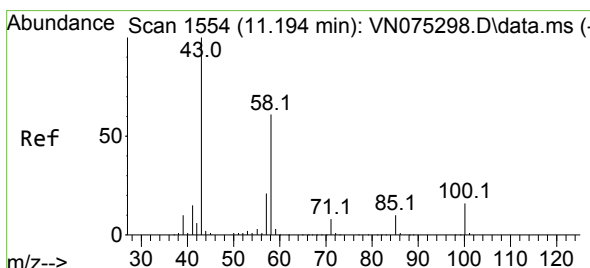
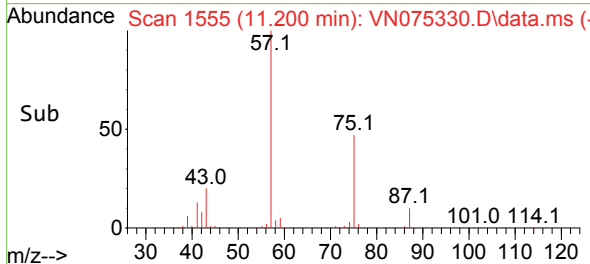
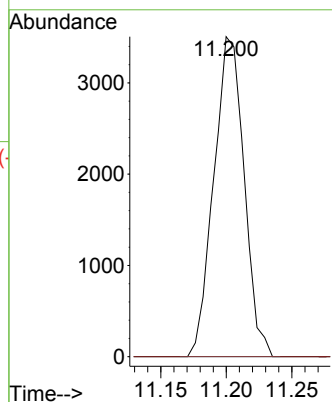
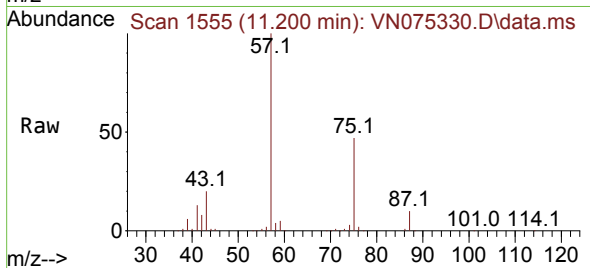
ClientSampleId :

Tgt Ion: 76 Resp: 5637

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 39.143 ug/l

RT: 11.170 min Scan# 1550

Delta R.T. -0.030 min

Lab File: VN075330.D

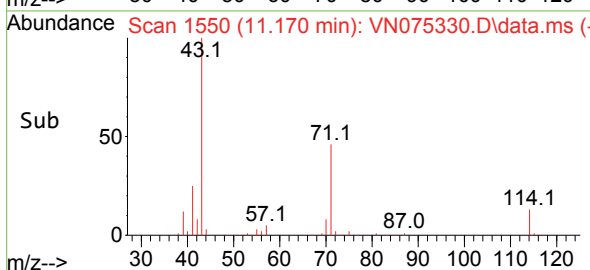
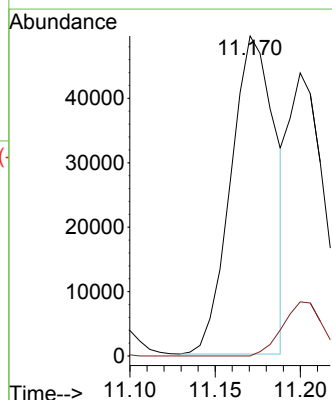
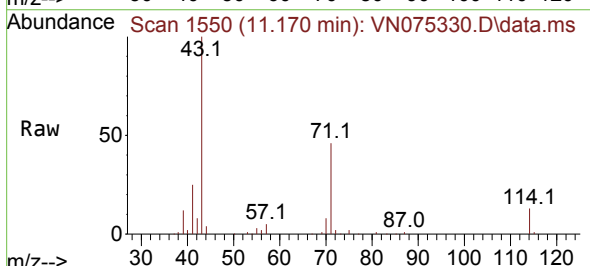
Acq: 18 Nov 2022 22:16

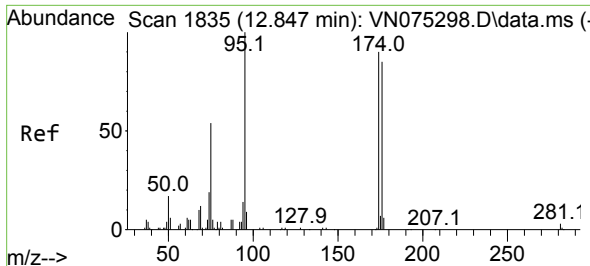
Tgt Ion: 43 Resp: 89461

Ion Ratio Lower Upper

43 100

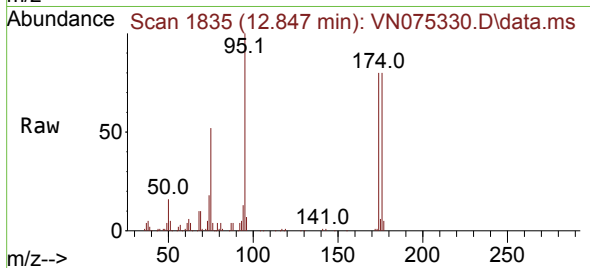
58 0.0 29.6 88.8#



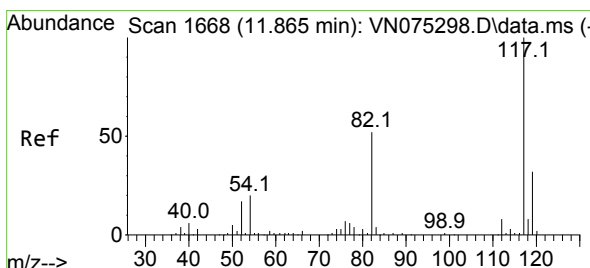
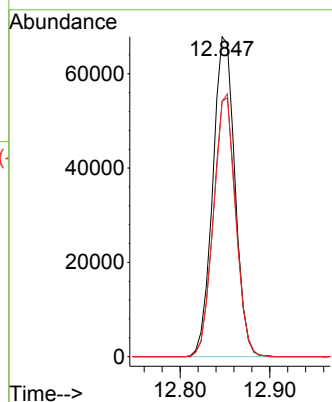
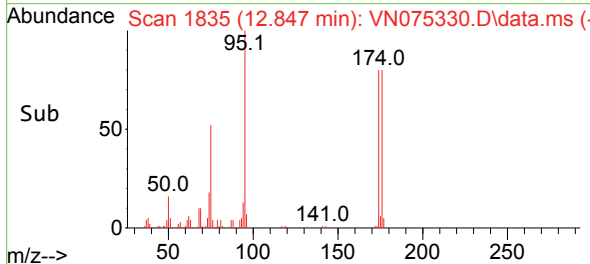


#62
4-Bromofluorobenzene
Concen: 48.235 ug/l
RT: 12.847 min Scan# 116482
Delta R.T. -0.006 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

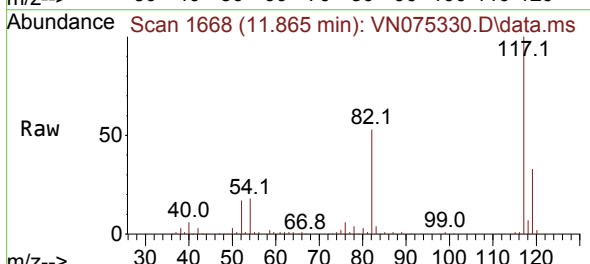
Instrument :
MSVOA_N
ClientSampleId :



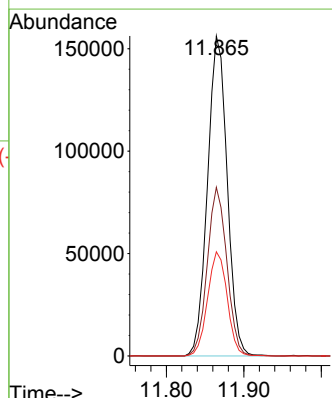
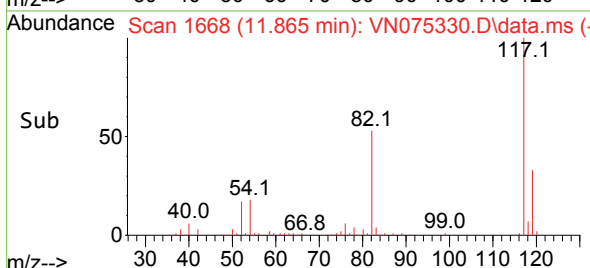
Tgt Ion: 95 Resp: 116482
Ion Ratio Lower Upper
95 100
174 82.1 0.0 147.4
176 81.2 0.0 142.2

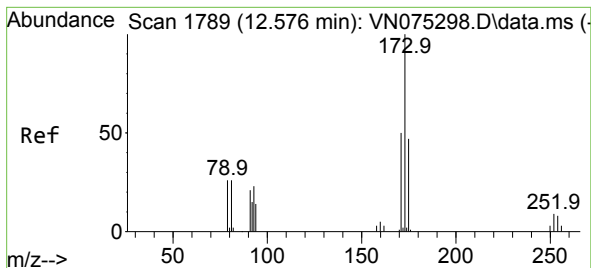


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.006 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16



Tgt Ion: 117 Resp: 275307
Ion Ratio Lower Upper
117 100
82 52.7 43.1 64.7
119 32.6 25.5 38.3





#71

Bromoform

Concen: 0.585 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

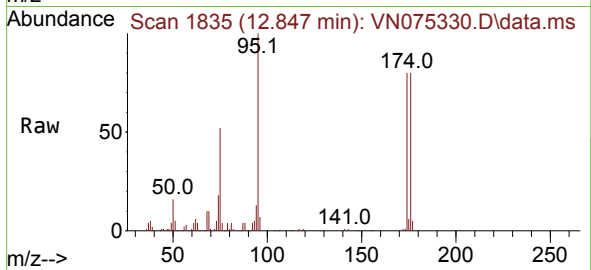
Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

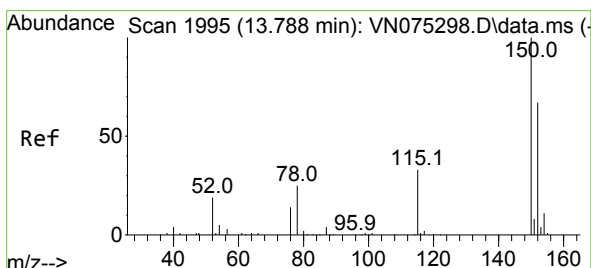
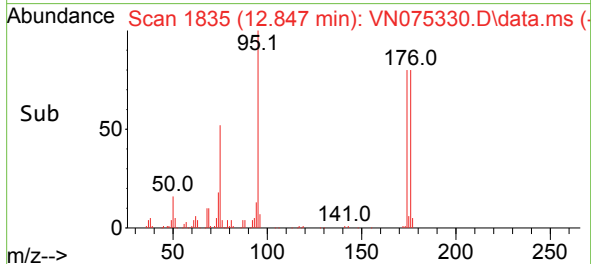
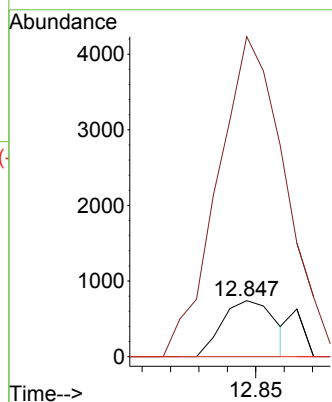
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	954
Ion Ratio	Lower	Upper	
173	100		
175	641.0	24.6	74.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

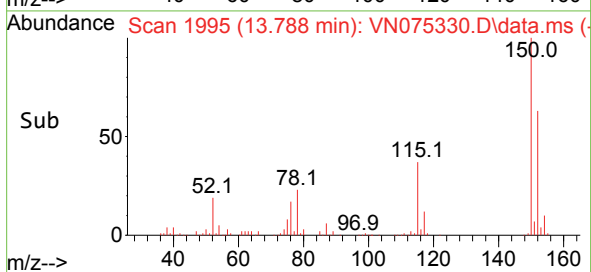
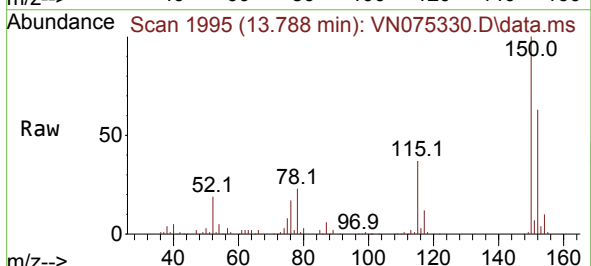
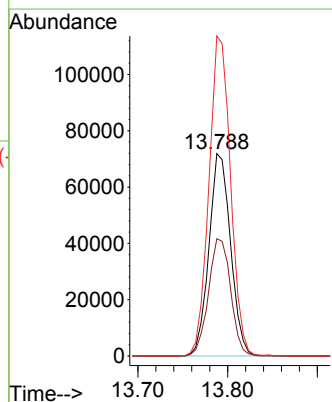
RT: 13.788 min Scan# 1995

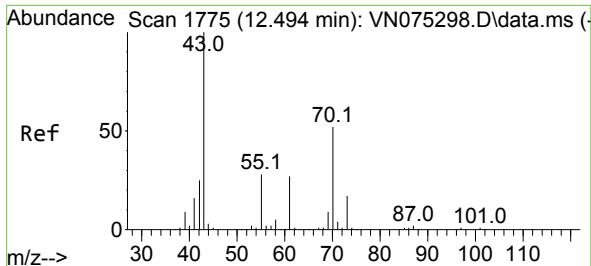
Delta R.T. -0.006 min

Lab File: VN075330.D

Acq: 18 Nov 2022 22:16

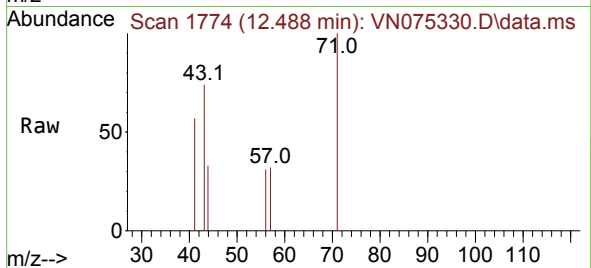
Tgt Ion:	152	Resp:	120364
Ion Ratio	Lower	Upper	
152	100		
115	59.3	30.2	90.6
150	158.0	0.0	348.4



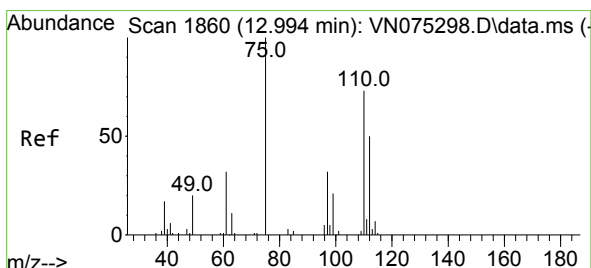
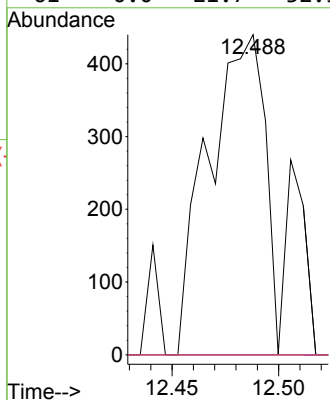
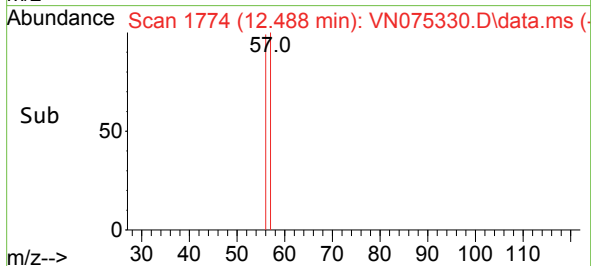


#74
N-amy1 acetate
Concen: 0.228 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

Instrument :
MSVOA_N
ClientSampleId :

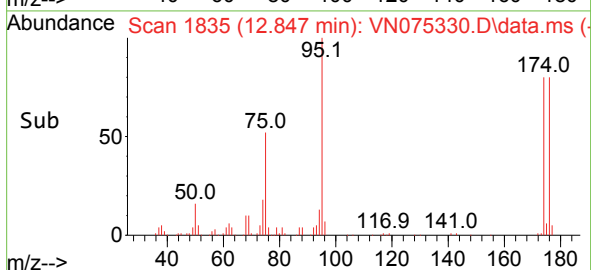
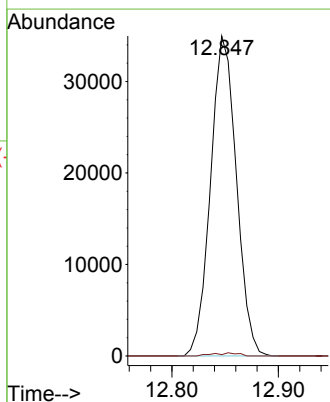
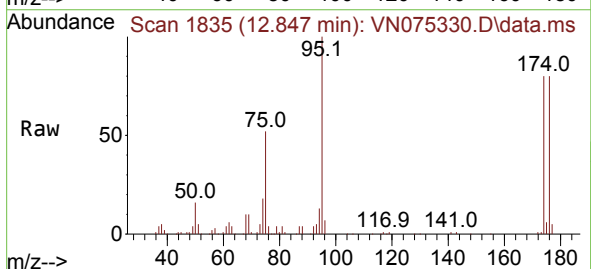


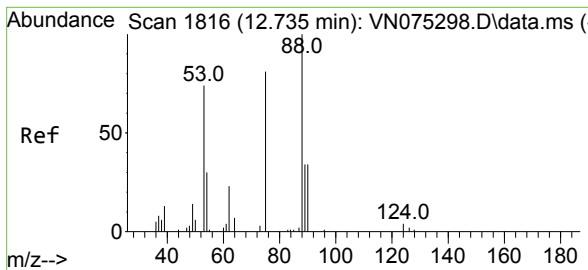
Tgt Ion: 43	Resp: 814
Ion Ratio	Lower Upper
43 100	
70 0.0	39.8 59.8#
55 0.0	19.9 29.9#
61 0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 23.052 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075330.D
Acq: 18 Nov 2022 22:16

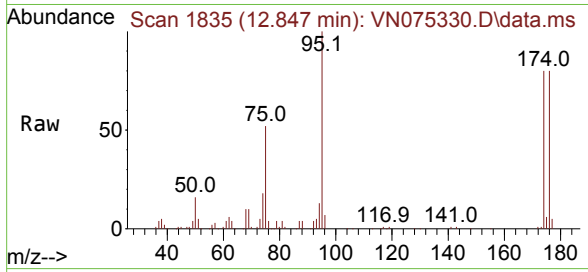
Tgt Ion: 75	Resp: 58914
Ion Ratio	Lower Upper
75 100	
77 0.9	75.6 226.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.175 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN075330.D
 Acq: 18 Nov 2022 22:16

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 58914
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#

