

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081222\
 Data File : VN073855.D
 Acq On : 12 Aug 2022 16:38
 Operator : JC\MD
 Sample : PB146944ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146944ZHE#02

Quant Time: Aug 13 05:03:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 10 05:09:32 2022
 Response via : Initial Calibration

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

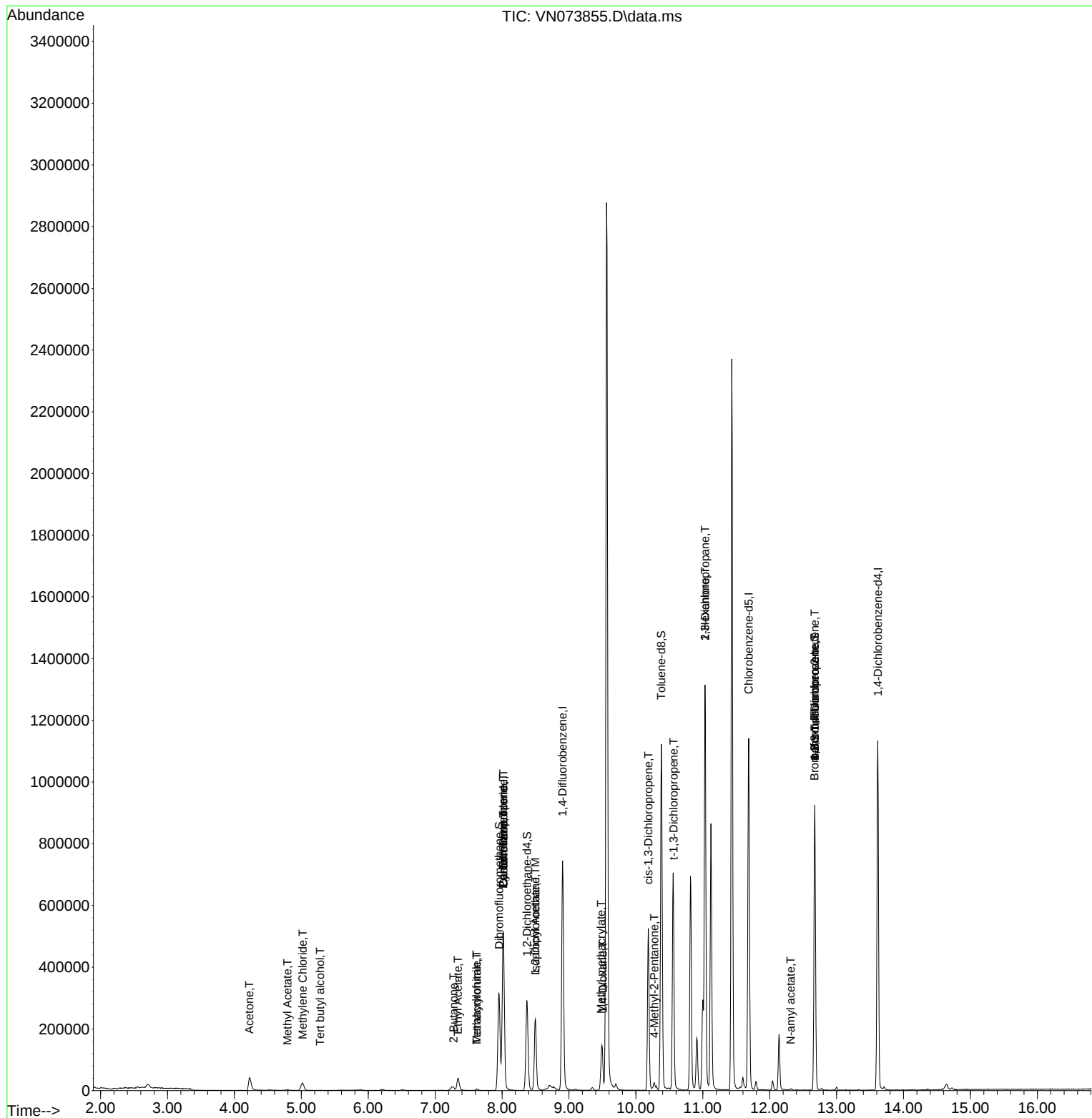
Internal Standards						
1) Pentafluorobenzene	8.016	168	424445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	683083	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	693316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	328918	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	245043	47.374	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.740%		
35) Dibromofluoromethane	7.957	113	232044	54.098	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.200%		
50) Toluene-d8	10.380	98	798456	47.305	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.600%		
62) 4-Bromofluorobenzene	12.674	95	299449	50.507	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.020%		
Target Compounds						Qvalue
3) Chloromethane	2.269	50	958	Below Cal	#	84
6) Chloroethane	3.046	64	301	Below Cal	#	42
11) Tert butyl alcohol	5.281	59	620	0.556	ug/l #	72
16) Acetone	4.222	43	78195	28.146	ug/l	96
18) Methyl Acetate	4.792	43	4629	0.670	ug/l	93
20) Methylene Chloride	5.022	84	20153	2.385	ug/l	87
25) 2-Butanone	7.275	43	14963	3.468	ug/l	93
29) Tetrahydrofuran	7.622	42	2985	1.094	ug/l	93
31) Cyclohexane	8.022	56	7999	1.039	ug/l #	3
36) 1,1-Dichloropropene	8.016	75	28700	4.695	ug/l #	50
37) Ethyl Acetate	7.339	43	60890	7.563	ug/l	99
38) Carbon Tetrachloride	8.022	117	39461	6.355	ug/l #	18
41) Methacrylonitrile	7.622	41	2007	0.551	ug/l #	32
42) 1,2-Dichloroethane	8.498	62	1475	0.220	ug/l #	74
43) Isopropyl Acetate	8.498	43	257264	23.658	ug/l #	92
48) Methyl methacrylate	9.480	41	8080	1.697	ug/l #	36
49) 1,4-Dioxane	9.504	88	68	0.507	ug/l #	1
51) 4-Methyl-2-Pentanone	10.274	43	22368	2.868	ug/l #	79
53) t-1,3-Dichloropropene	10.563	75	2105	0.322	ug/l #	1
54) cis-1,3-Dichloropropene	10.186	75	96115	13.062	ug/l #	65
57) 1,3-Dichloropropane	11.033	76	14591	1.701	ug/l #	43
59) 2-Hexanone	11.033	43	178444	30.197	ug/l #	48
71) Bromoform	12.668	173	1638	0.376	ug/l #	28
74) N-amyl acetate	12.316	43	1846	0.203	ug/l #	44
76) 1,2,3-Trichloropropane	12.674	75	151594	23.447	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	151594	59.728	ug/l #	10

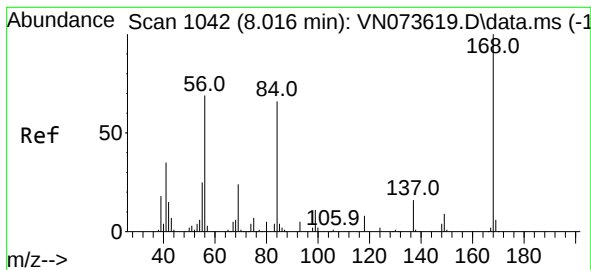
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

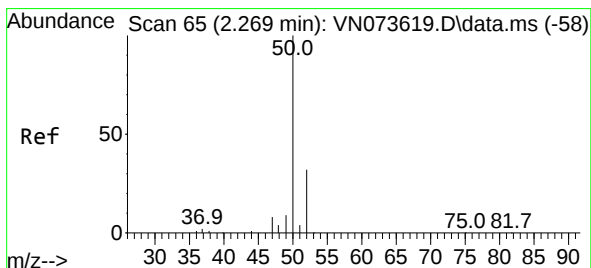
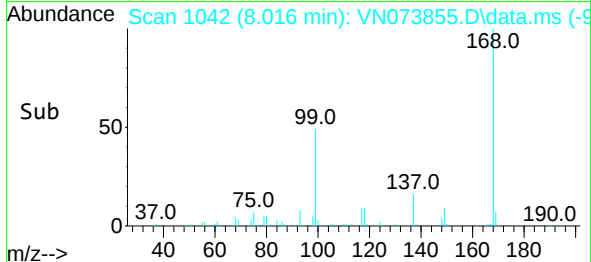
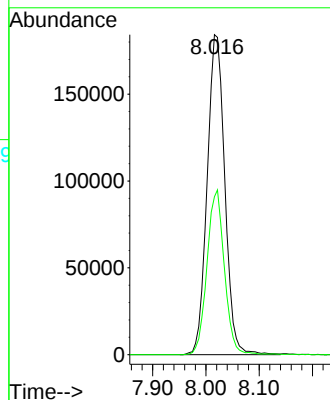
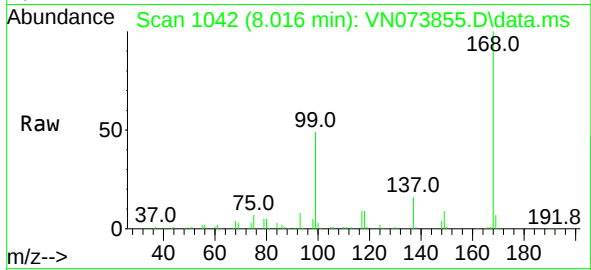




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

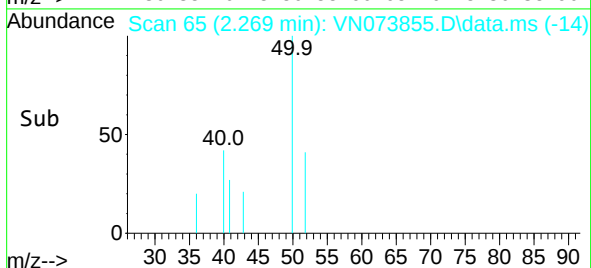
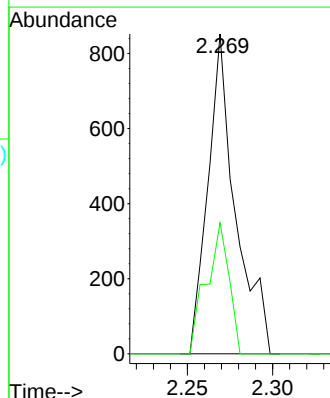
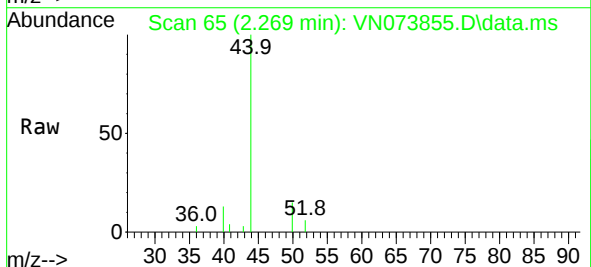
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

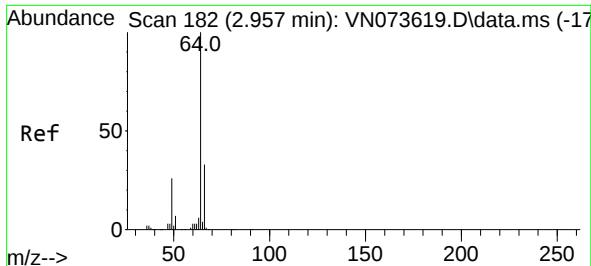
Tgt Ion:168 Resp: 424445
Ion Ratio Lower Upper
168 100
99 49.3 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 50 Resp: 958
Ion Ratio Lower Upper
50 100
52 41.0 25.7 38.5#

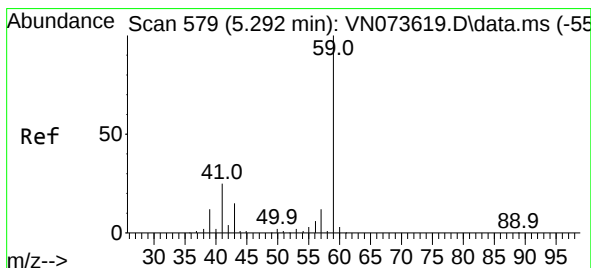
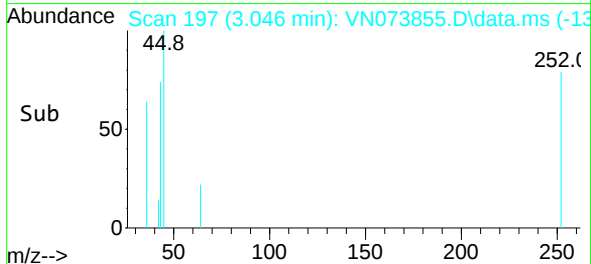
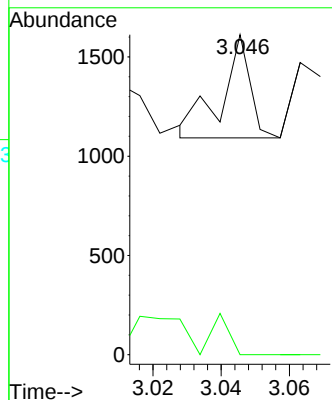
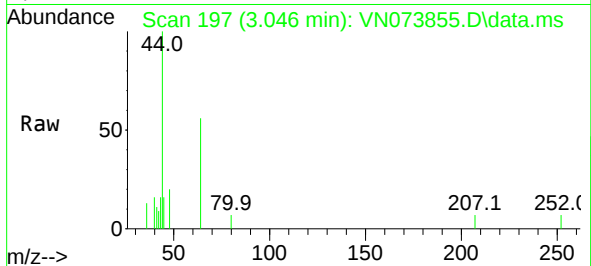




#6
Chloroethane
Concen: Below Cal
RT: 3.046 min Scan# 11
Delta R.T. 0.089 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

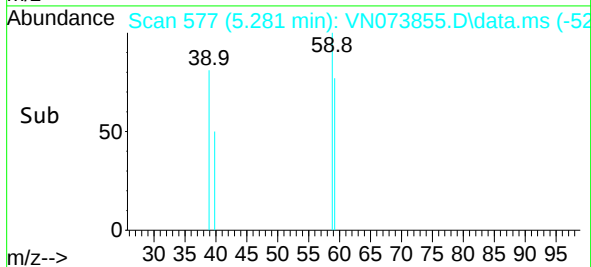
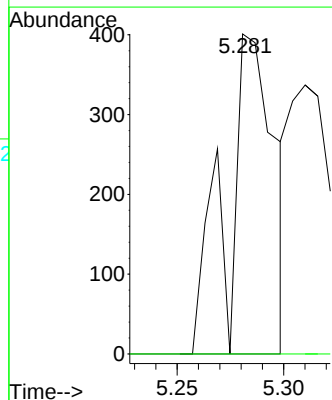
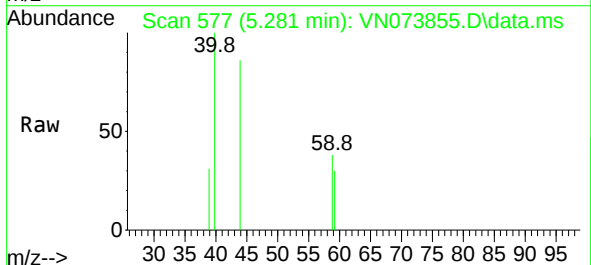
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

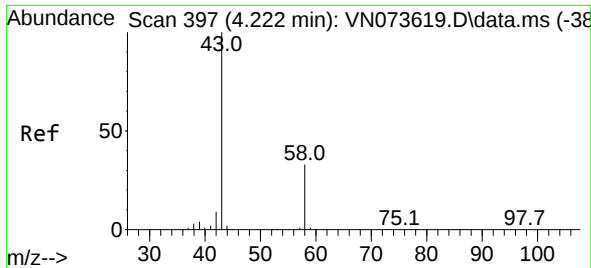
Tgt Ion: 64 Resp: 301
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.556 ug/l
RT: 5.281 min Scan# 577
Delta R.T. -0.011 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 59 Resp: 620
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

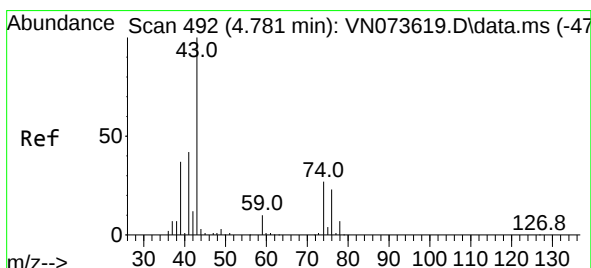
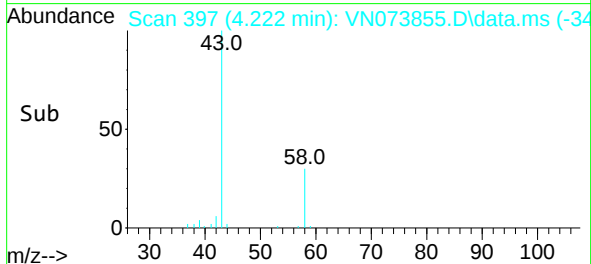
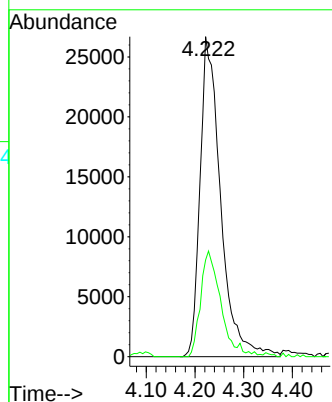
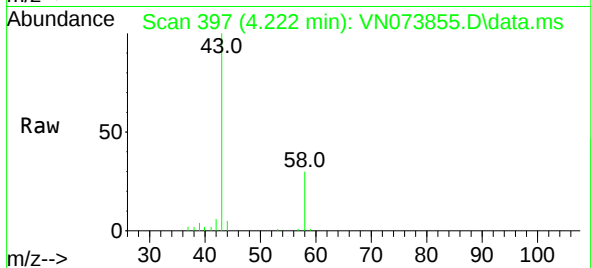




#16
Acetone
Concen: 28.146 ug/l
RT: 4.222 min Scan# 397
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

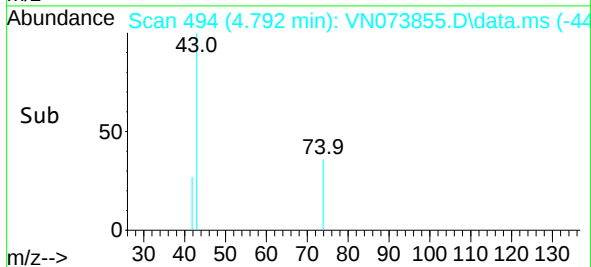
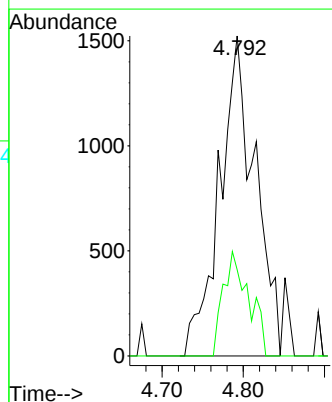
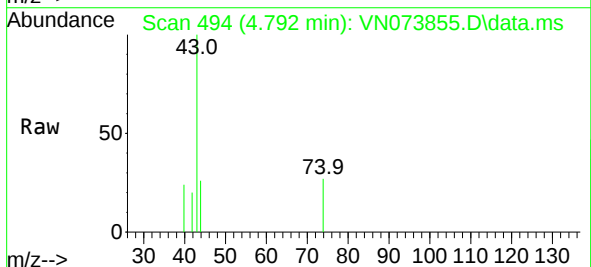
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

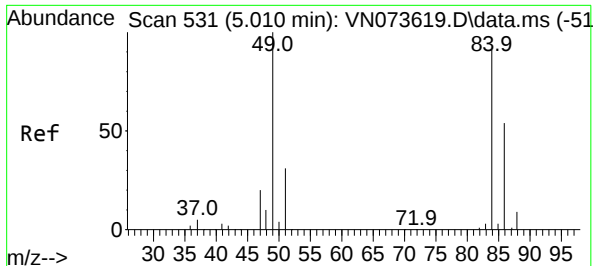
Tgt Ion: 43 Resp: 78195
Ion Ratio Lower Upper
43 100
58 30.2 26.0 39.0



#18
Methyl Acetate
Concen: 0.670 ug/l
RT: 4.792 min Scan# 494
Delta R.T. 0.012 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 43 Resp: 4629
Ion Ratio Lower Upper
43 100
74 23.6 21.6 32.4





#20

Methylene Chloride

Concen: 2.385 ug/l

RT: 5.022 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB146944ZHE#02

Tgt Ion: 84 Resp: 20153

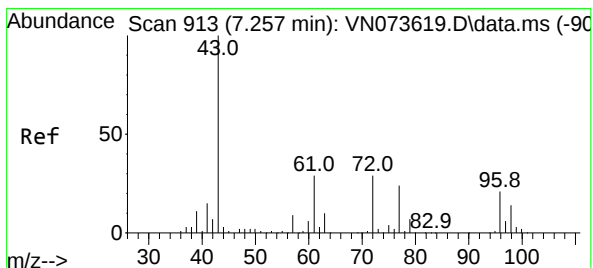
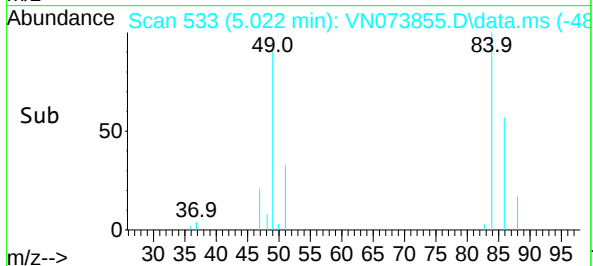
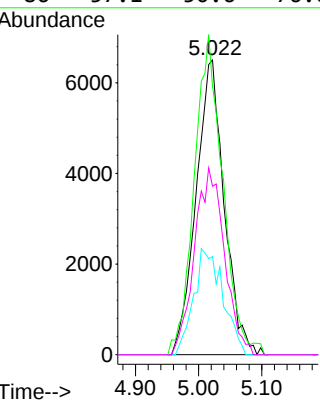
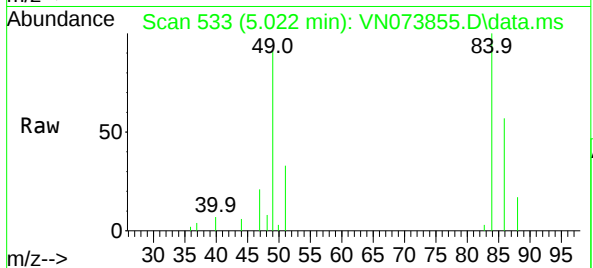
Ion Ratio Lower Upper

84 100

49 91.1 88.3 132.5

51 33.3 28.2 42.2

86 57.1 50.6 76.0



#25

2-Butanone

Concen: 3.468 ug/l

RT: 7.275 min Scan# 916

Delta R.T. 0.018 min

Lab File: VN073855.D

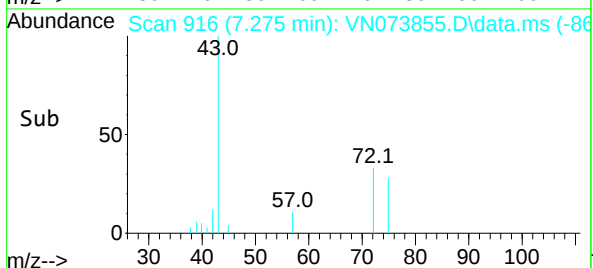
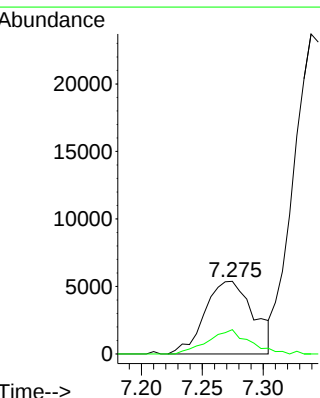
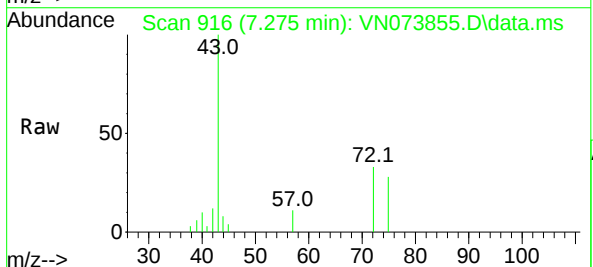
Acq: 12 Aug 2022 16:38

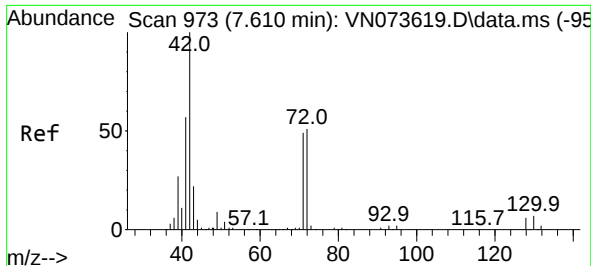
Tgt Ion: 43 Resp: 14963

Ion Ratio Lower Upper

43 100

72 33.5 23.7 35.5





#29

Tetrahydrofuran

Concen: 1.094 ug/l

RT: 7.622 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB146944ZHE#02

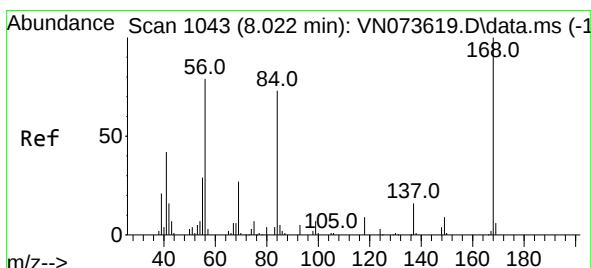
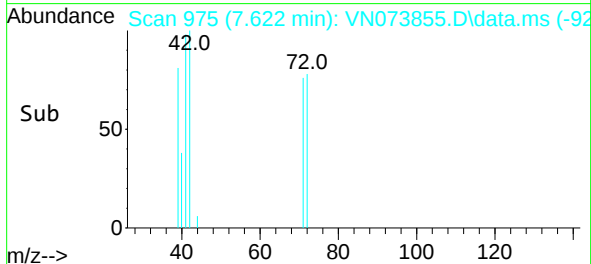
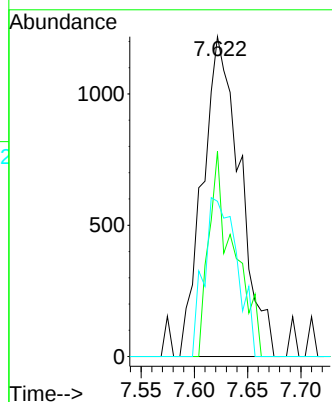
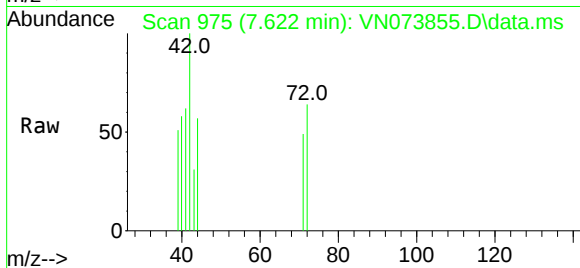
Tgt Ion: 42 Resp: 2985

Ion Ratio Lower Upper

42 100

72 43.0 39.7 59.5

71 43.6 36.6 55.0



#31

Cyclohexane

Concen: 1.039 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.000 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

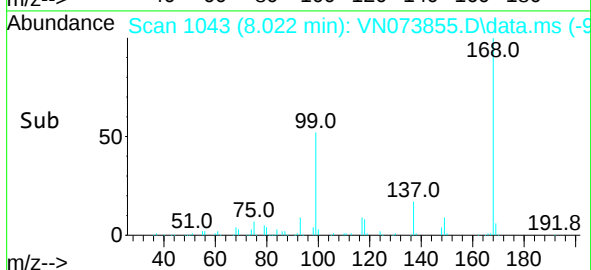
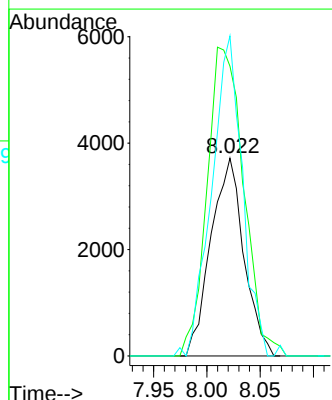
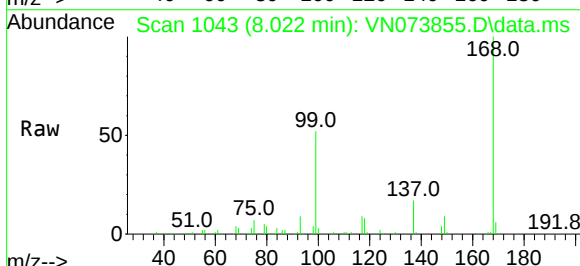
Tgt Ion: 56 Resp: 7999

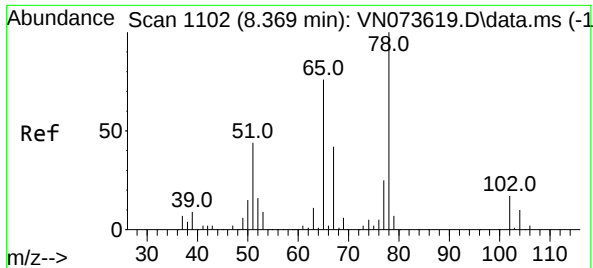
Ion Ratio Lower Upper

56 100

69 146.5 27.8 41.8#

84 157.6 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 47.374 ug/l

RT: 8.375 min Scan# 1102

Delta R.T. 0.006 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

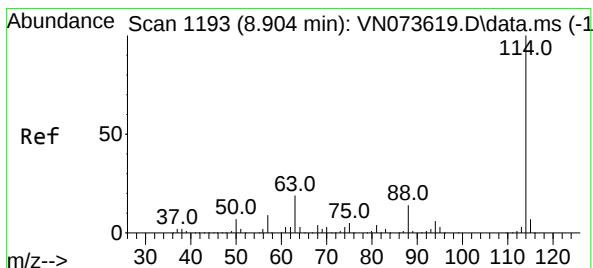
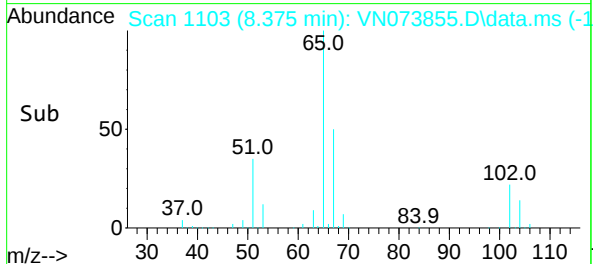
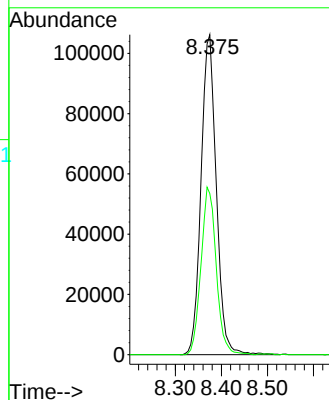
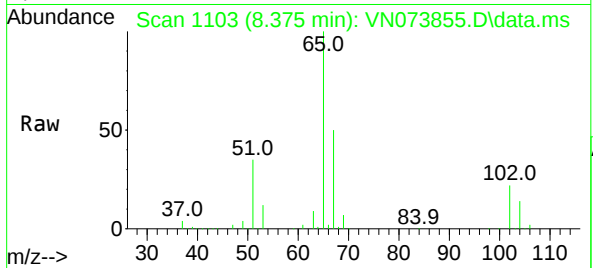
PB146944ZHE#02

Tgt Ion: 65 Resp: 245043

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

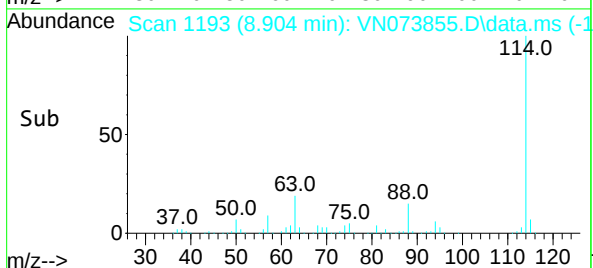
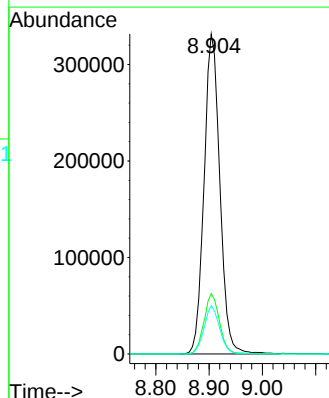
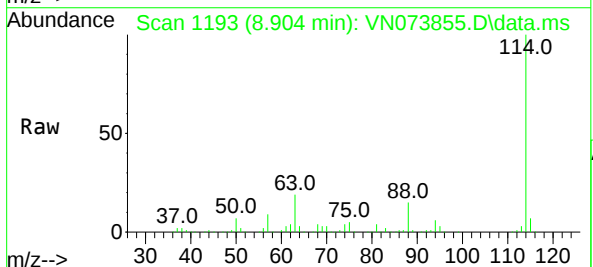
Tgt Ion:114 Resp: 683083

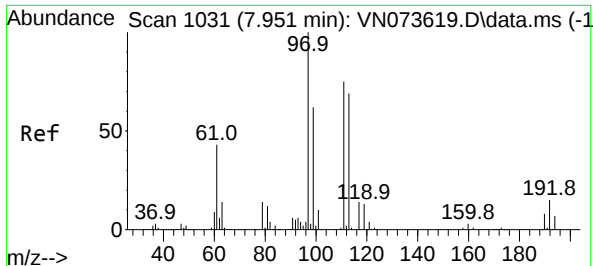
Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

88 15.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 54.098 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB146944ZHE#02

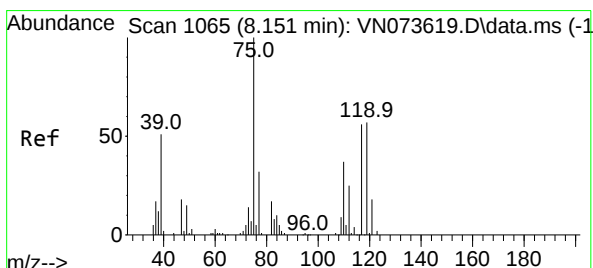
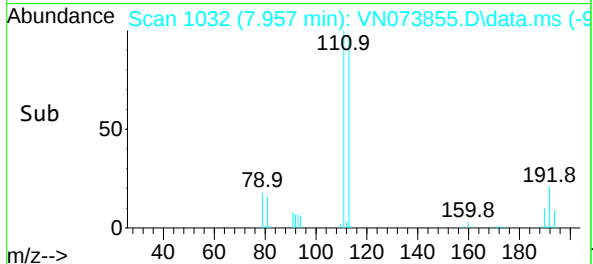
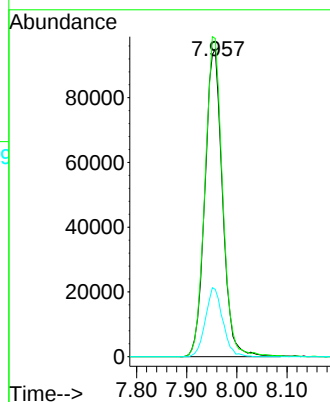
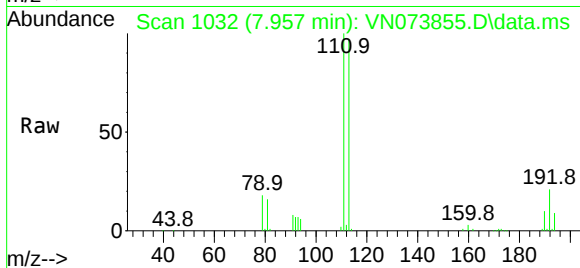
Tgt Ion:113 Resp: 232044

Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.0

192 22.0 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.695 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

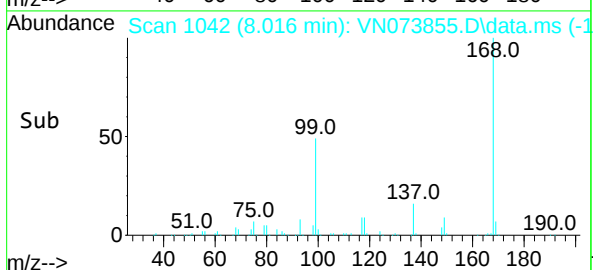
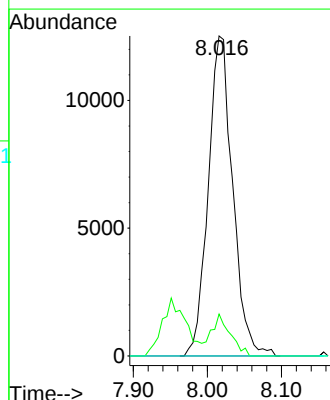
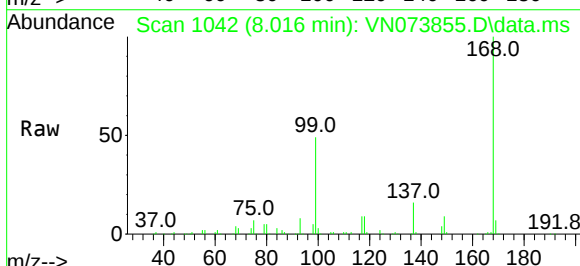
Tgt Ion: 75 Resp: 28700

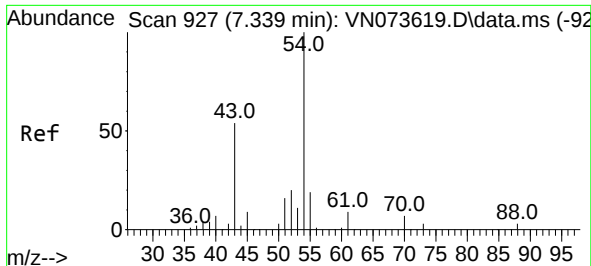
Ion Ratio Lower Upper

75 100

110 10.2 18.3 54.8#

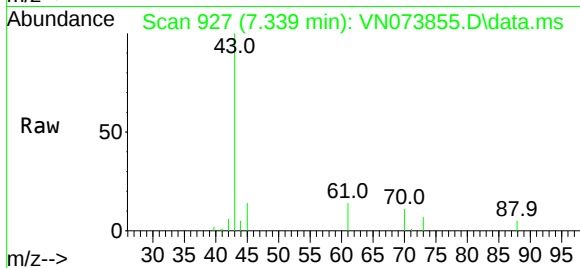
77 0.0 25.1 37.7#



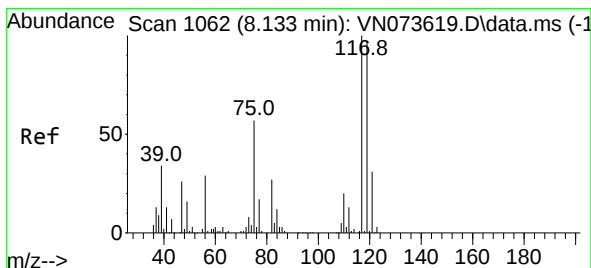
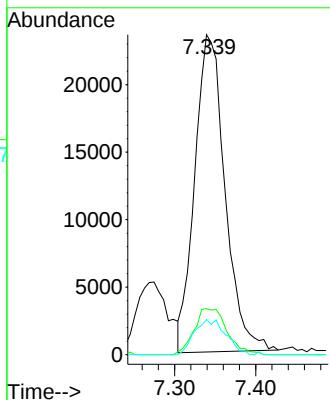
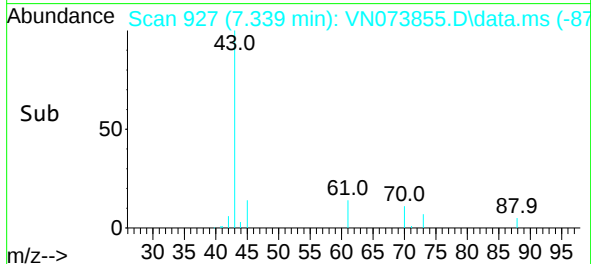


#37
Ethyl Acetate
Concen: 7.563 ug/l
RT: 7.339 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

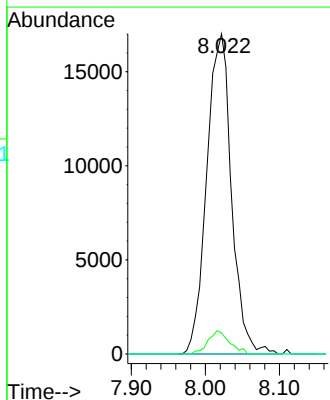
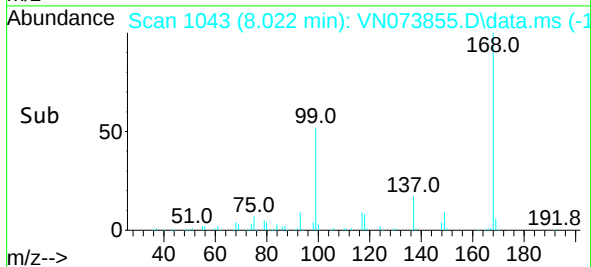
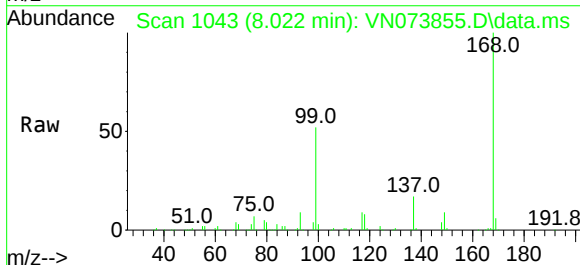


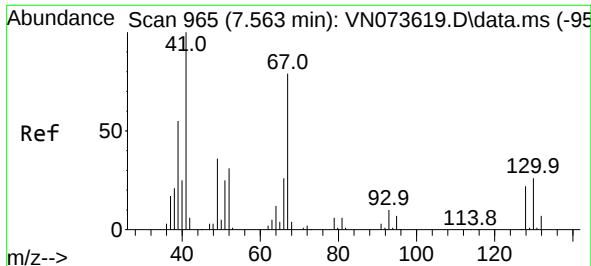
Tgt Ion:	43	Resp:	60890
Ion	Ratio	Lower	Upper
43	100		
61	15.7	11.8	17.6
70	11.6	9.3	13.9



#38
Carbon Tetrachloride
Concen: 6.355 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion:	117	Resp:	39461
Ion	Ratio	Lower	Upper
117	100		
119	6.6	75.8	113.8#
121	0.0	24.6	37.0#

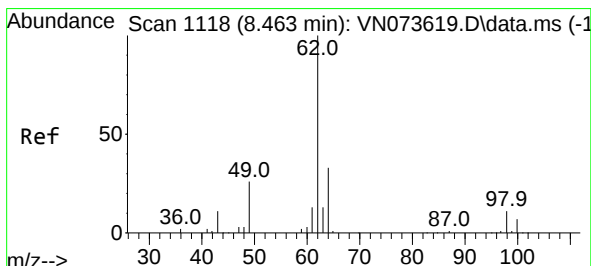
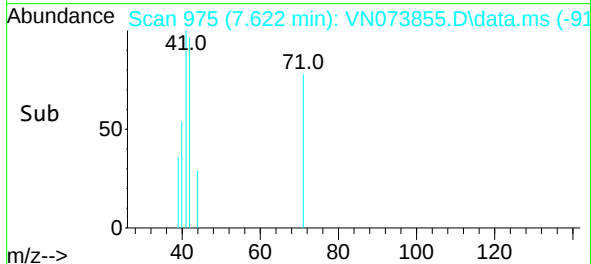
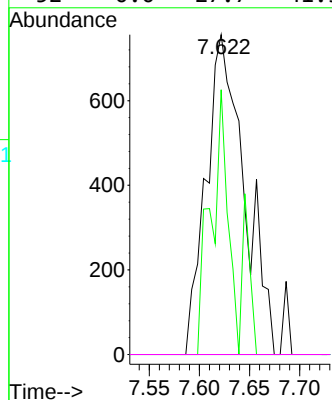
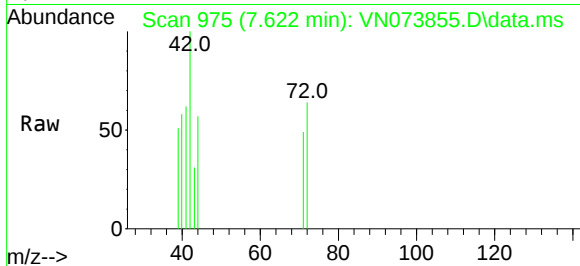




#41
Methacrylonitrile
Concen: 0.551 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.059 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

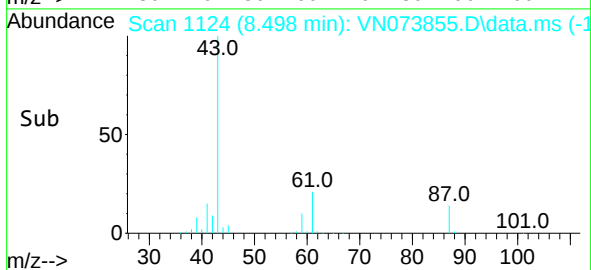
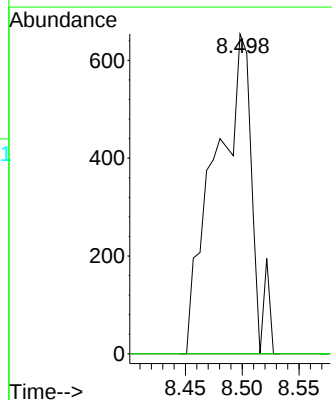
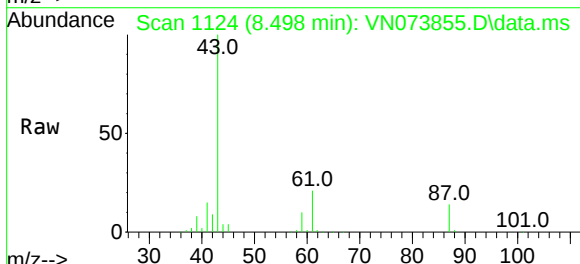
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

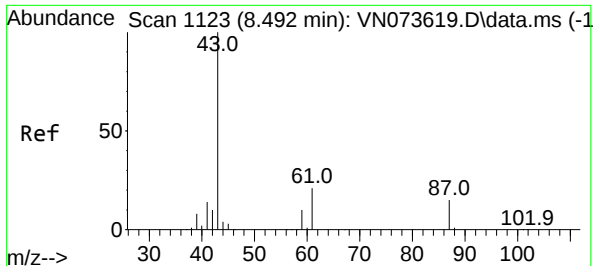
Tgt Ion: 41	Resp: 2007
Ion Ratio	Lower Upper
41 100	
39 37.2	48.6 73.0#
67 0.0	73.4 110.2#
52 0.0	27.7 41.5#



#42
1,2-Dichloroethane
Concen: 0.220 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.035 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 62	Resp: 1475		
Ion Ratio	Lower	Upper	
62 100			
98 0.0	0.0	19.4	





#43

Isopropyl Acetate

Concen: 23.658 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB146944ZHE#02

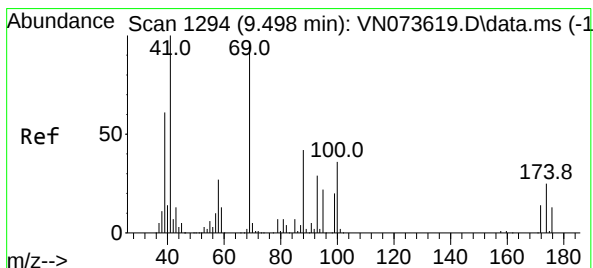
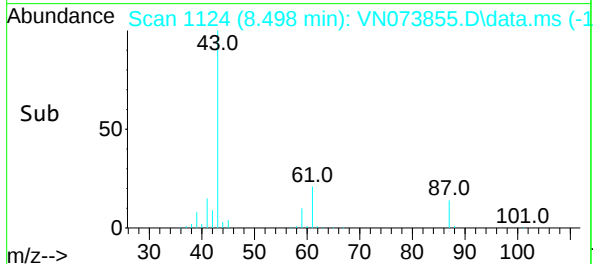
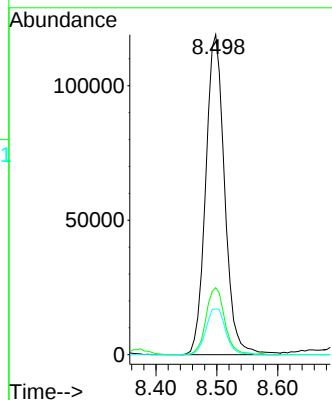
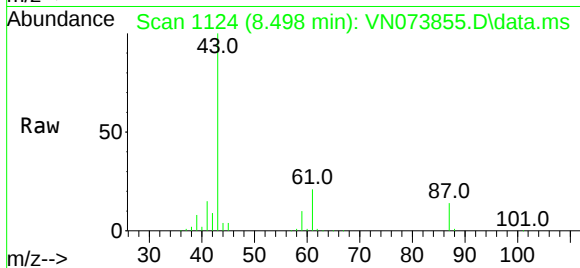
Tgt Ion: 43 Resp: 257264

Ion Ratio Lower Upper

43 100

61 20.8 21.9 32.9#

87 14.9 12.0 18.0



#48

Methyl methacrylate

Concen: 1.697 ug/l

RT: 9.480 min Scan# 1291

Delta R.T. -0.018 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

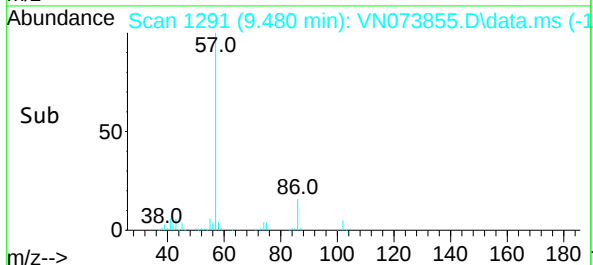
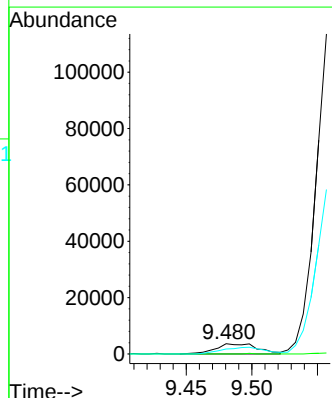
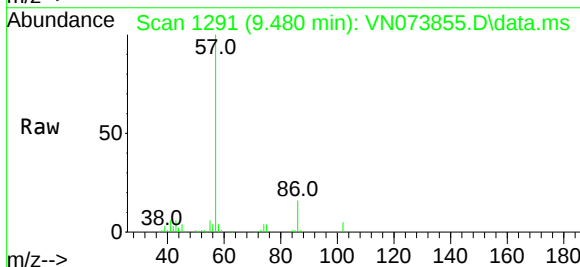
Tgt Ion: 41 Resp: 8080

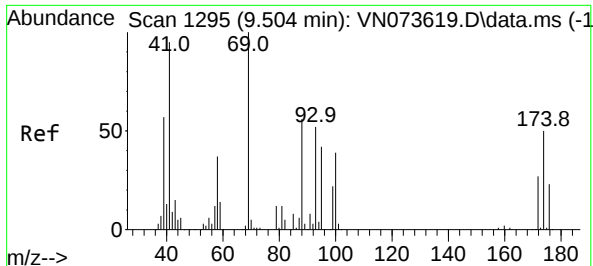
Ion Ratio Lower Upper

41 100

69 1.0 74.7 112.1#

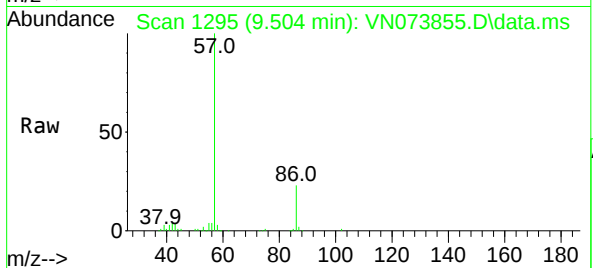
39 64.7 45.6 68.4



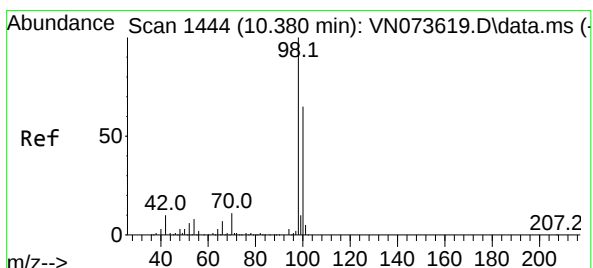
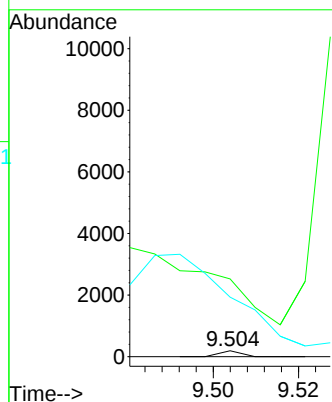
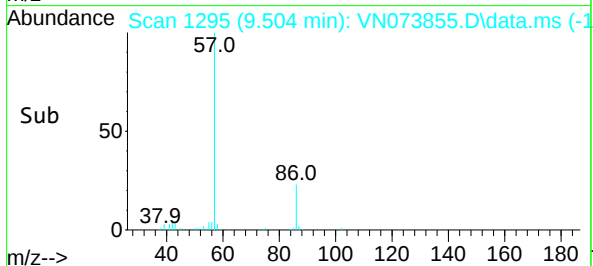


#49
1,4-Dioxane
Concen: 0.507 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

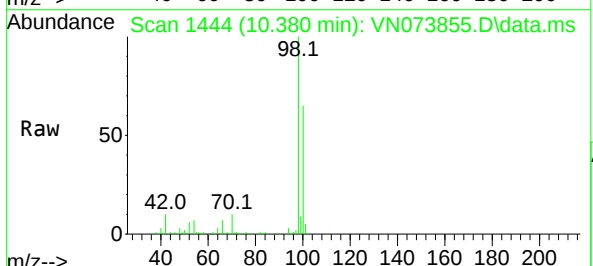
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02



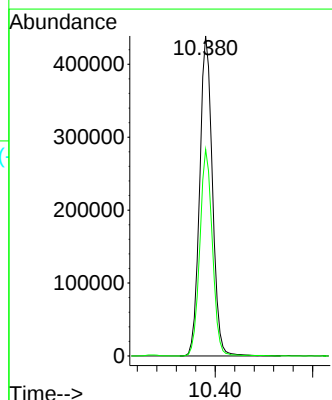
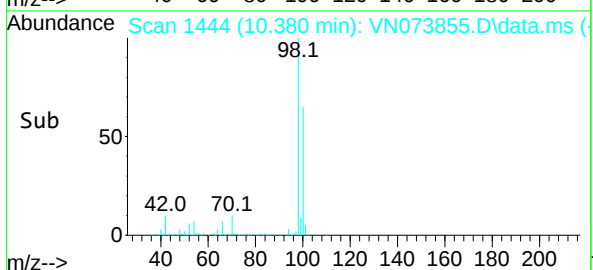
Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 9786.8 54.2 81.4#

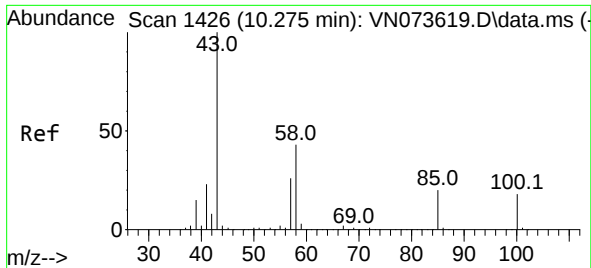


#50
Toluene-d8
Concen: 47.305 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38



Tgt Ion: 98 Resp: 798456
Ion Ratio Lower Upper
98 100
100 63.5 52.6 78.8

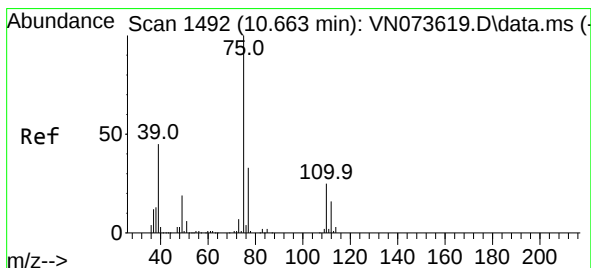
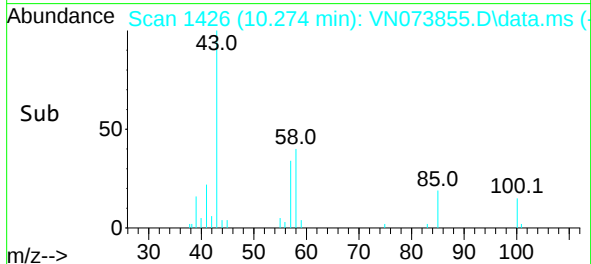
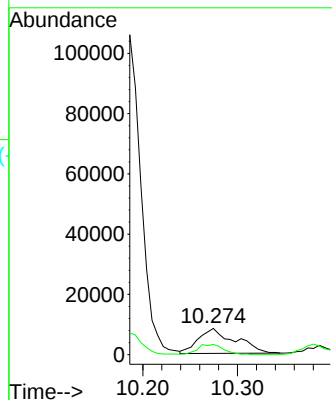
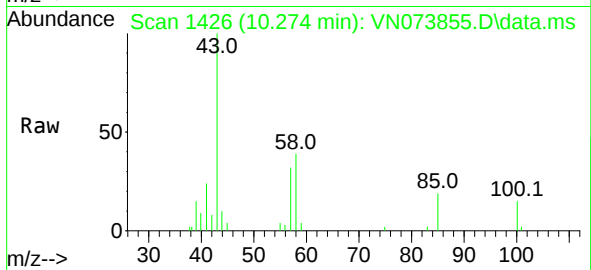




#51
4-Methyl-2-Pentanone
Concen: 2.868 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

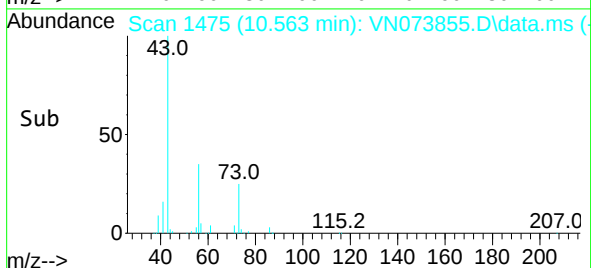
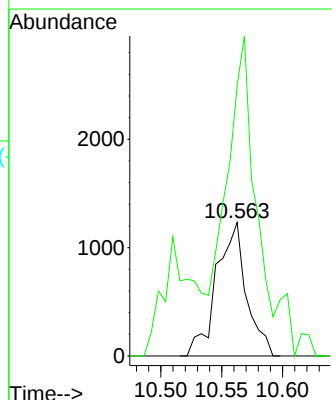
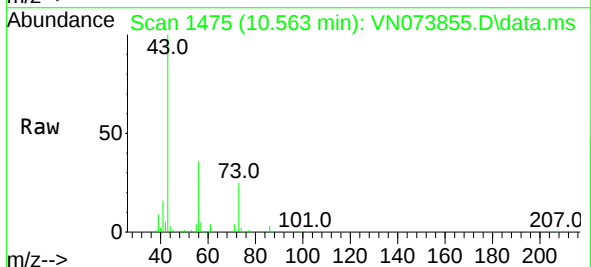
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

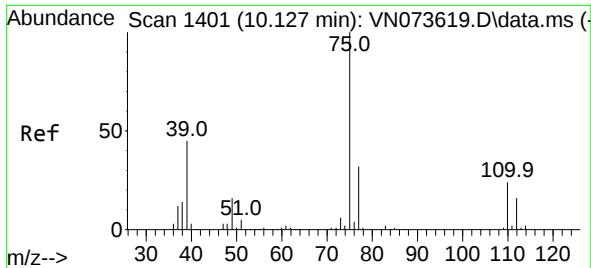
Tgt Ion: 43 Resp: 22368
Ion Ratio Lower Upper
43 100
58 29.2 34.1 51.1#



#53
t-1,3-Dichloropropene
Concen: 0.322 ug/l
RT: 10.563 min Scan# 1475
Delta R.T. -0.100 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 75 Resp: 2105
Ion Ratio Lower Upper
75 100
77 160.3 25.6 38.4#

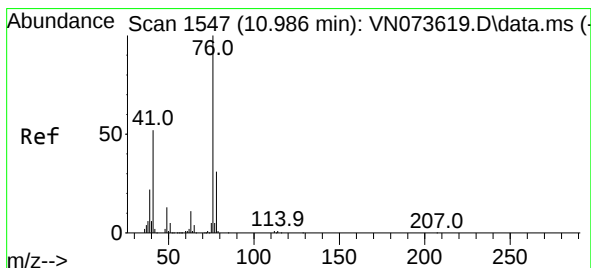
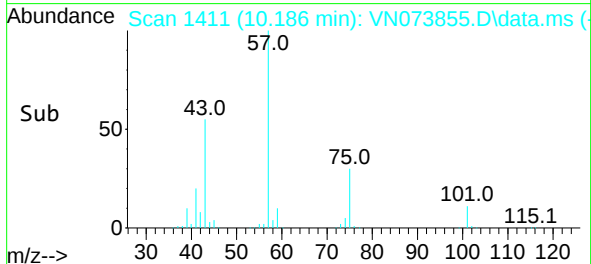
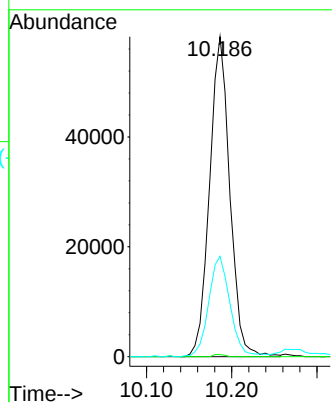
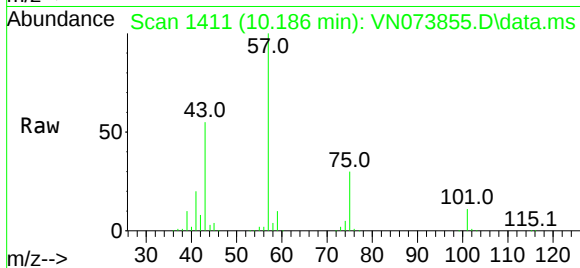




#54
 cis-1,3-Dichloropropene
 Concen: 13.062 ug/l
 RT: 10.186 min Scan# 14
 Delta R.T. 0.059 min
 Lab File: VN073855.D
 Acq: 12 Aug 2022 16:38

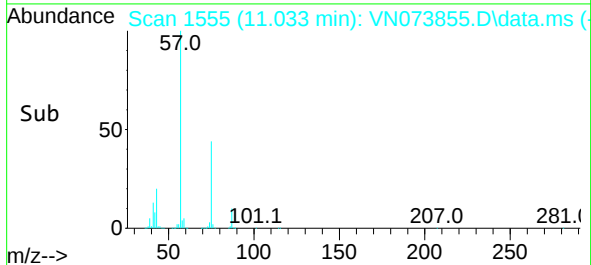
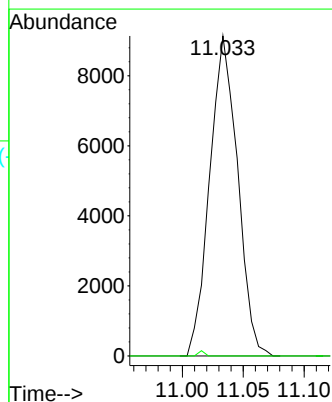
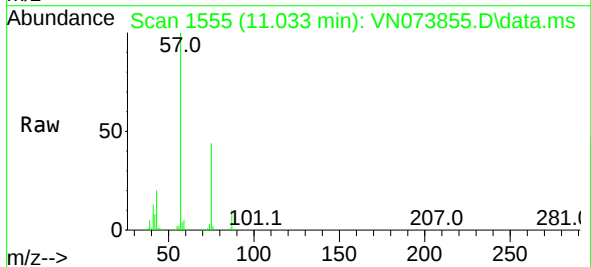
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146944ZHE#02

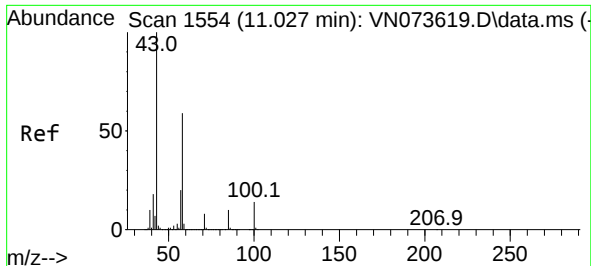
Tgt Ion: 75 Resp: 96115
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 31.3 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.701 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN073855.D
 Acq: 12 Aug 2022 16:38

Tgt Ion: 76 Resp: 14591
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.2 39.2#

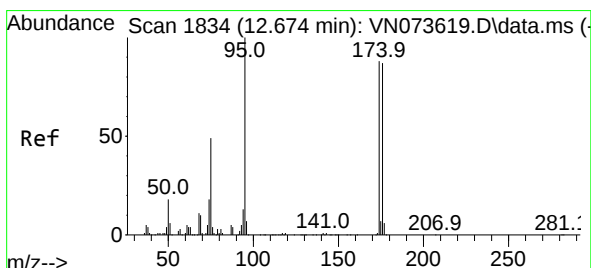
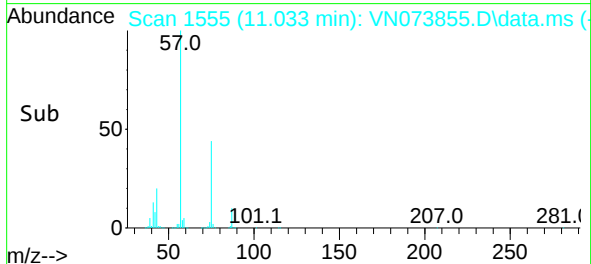
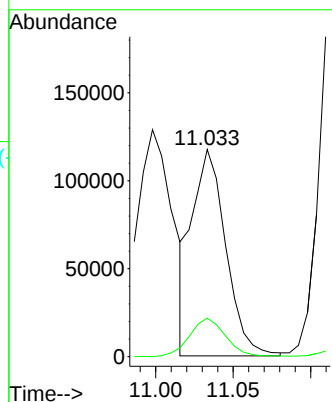
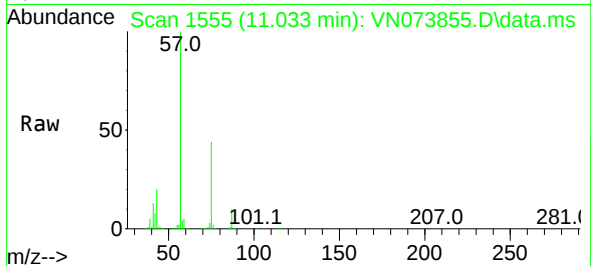




#59
2-Hexanone
Concen: 30.197 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

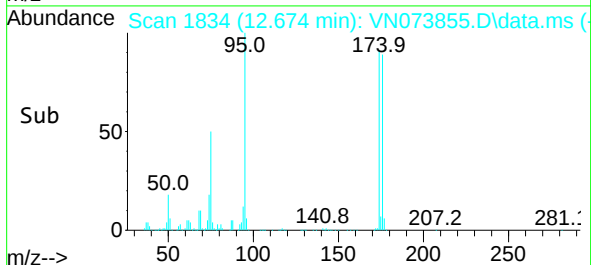
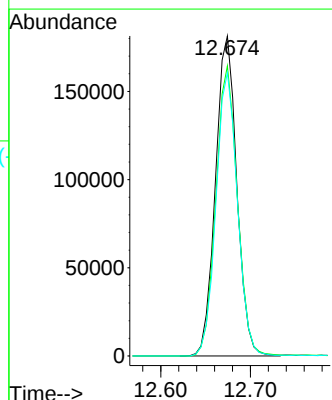
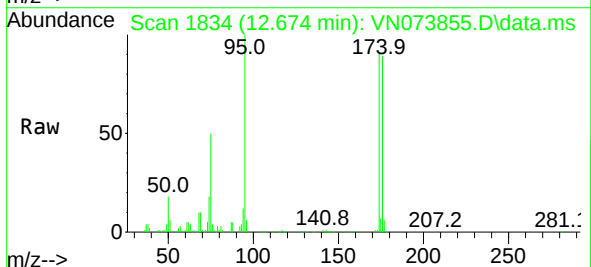
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

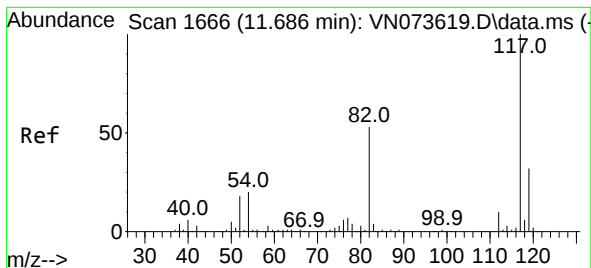
Tgt Ion: 43 Resp: 178444
Ion Ratio Lower Upper
43 100
58 20.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 50.507 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 95 Resp: 299449
Ion Ratio Lower Upper
95 100
174 91.4 0.0 167.6
176 88.6 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB146944ZHE#02

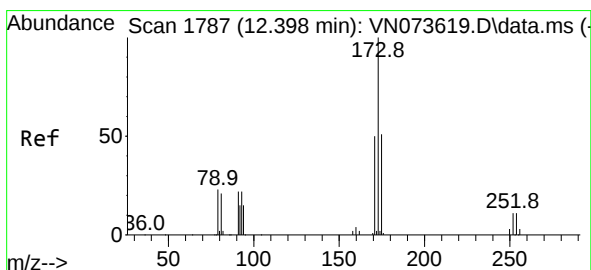
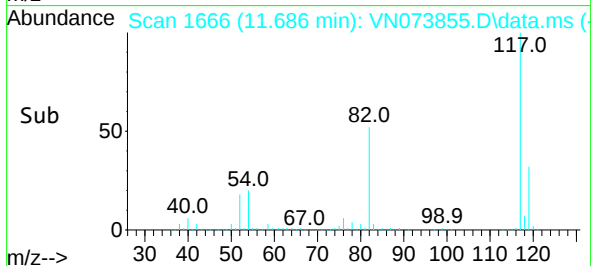
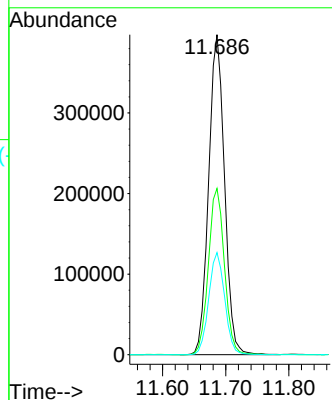
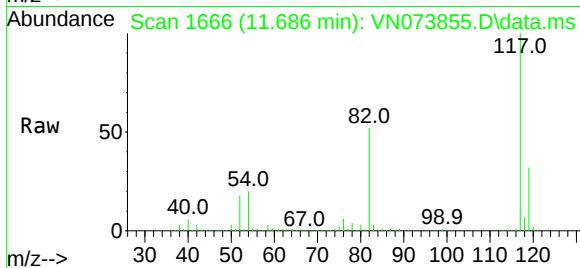
Tgt Ion:117 Resp: 693316

Ion Ratio Lower Upper

117 100

82 52.0 44.2 66.2

119 31.9 25.4 38.0



#71

Bromoform

Concen: 0.376 ug/l

RT: 12.668 min Scan# 1833

Delta R.T. 0.271 min

Lab File: VN073855.D

Acq: 12 Aug 2022 16:38

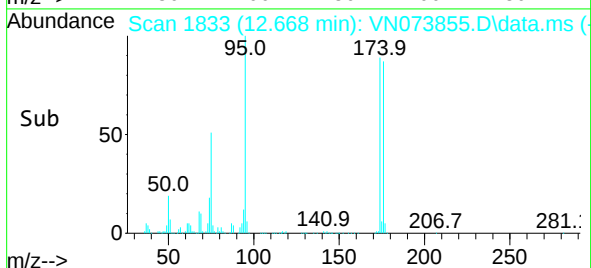
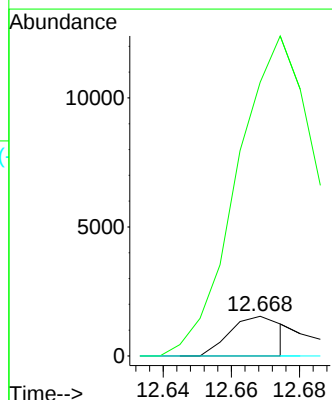
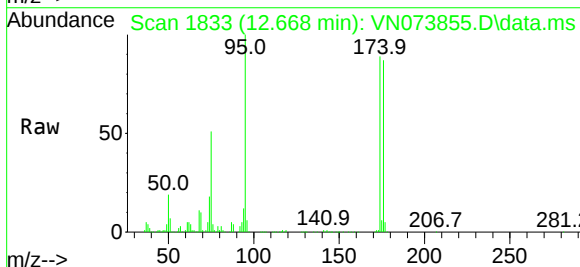
Tgt Ion:173 Resp: 1638

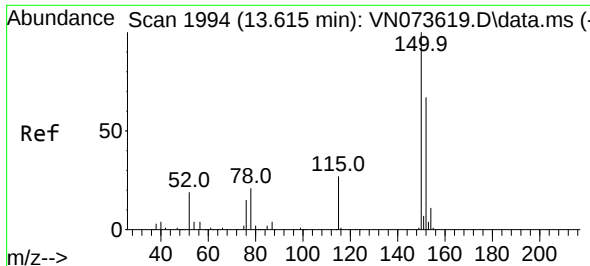
Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.6#

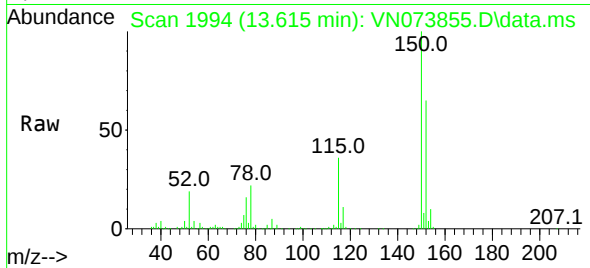
254 0.0 0.1 0.1#



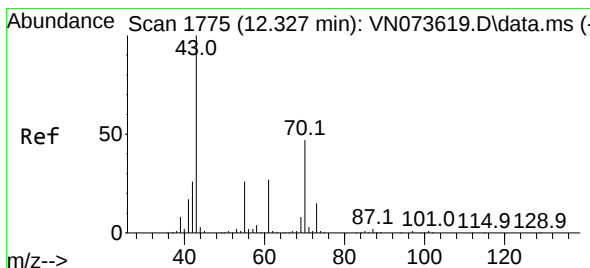
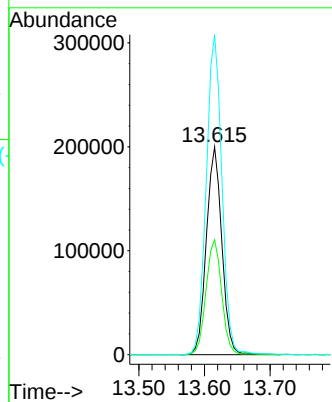
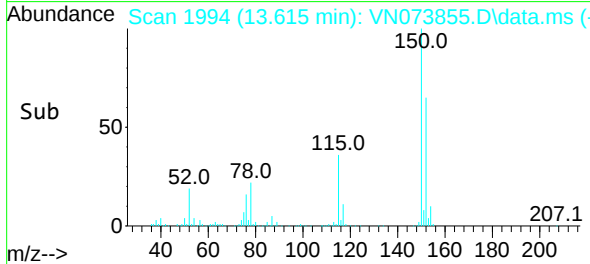


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

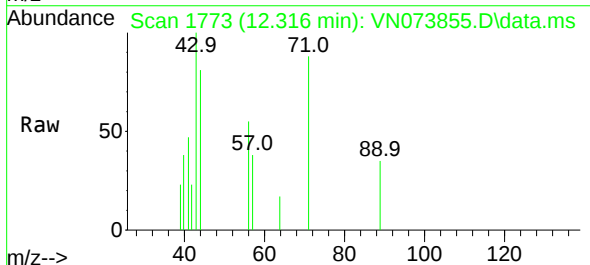
Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02



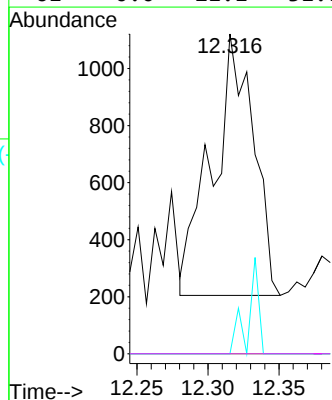
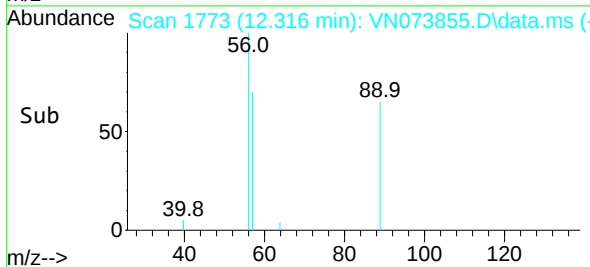
Tgt Ion:152 Resp: 328918
Ion Ratio Lower Upper
152 100
115 56.1 28.9 86.7
150 156.1 0.0 356.2

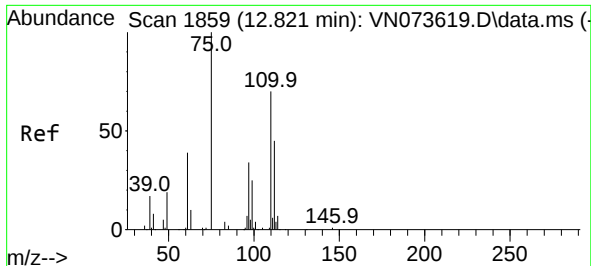


#74
N-ethyl acetate
Concen: 0.203 ug/l
RT: 12.316 min Scan# 1773
Delta R.T. -0.012 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38



Tgt Ion: 43 Resp: 1846
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 9.5 21.1 31.7#
61 0.0 21.1 31.7#

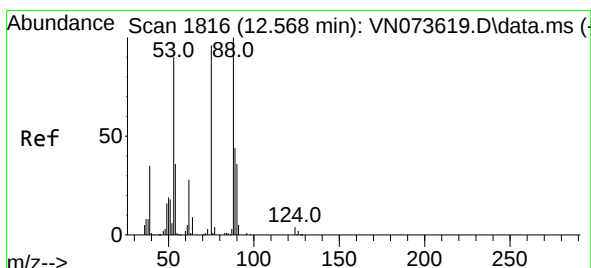
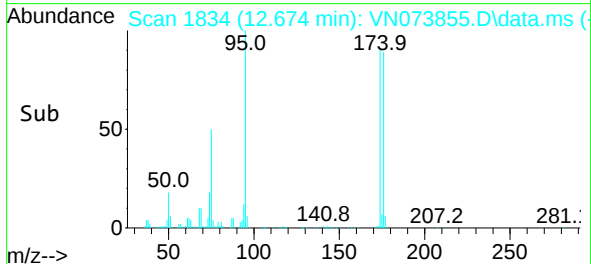
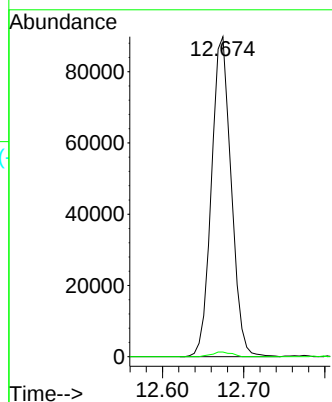
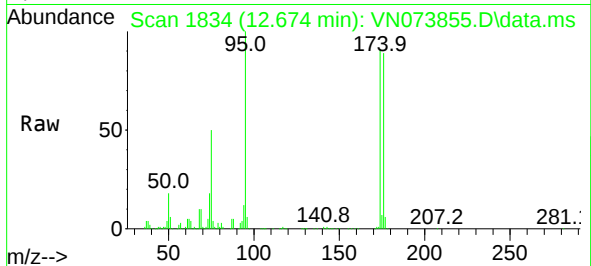




#76
1,2,3-Trichloropropane
Concen: 23.447 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Instrument :
MSVOA_N
ClientSampleId :
PB146944ZHE#02

Tgt Ion: 75 Resp: 151594
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.728 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073855.D
Acq: 12 Aug 2022 16:38

Tgt Ion: 75 Resp: 151594
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

