

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022724\
 Data File : VN081218.D
 Acq On : 27 Feb 2024 14:46
 Operator : JC\MD
 Sample : P1585-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-232

Quant Time: Feb 28 04:18:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

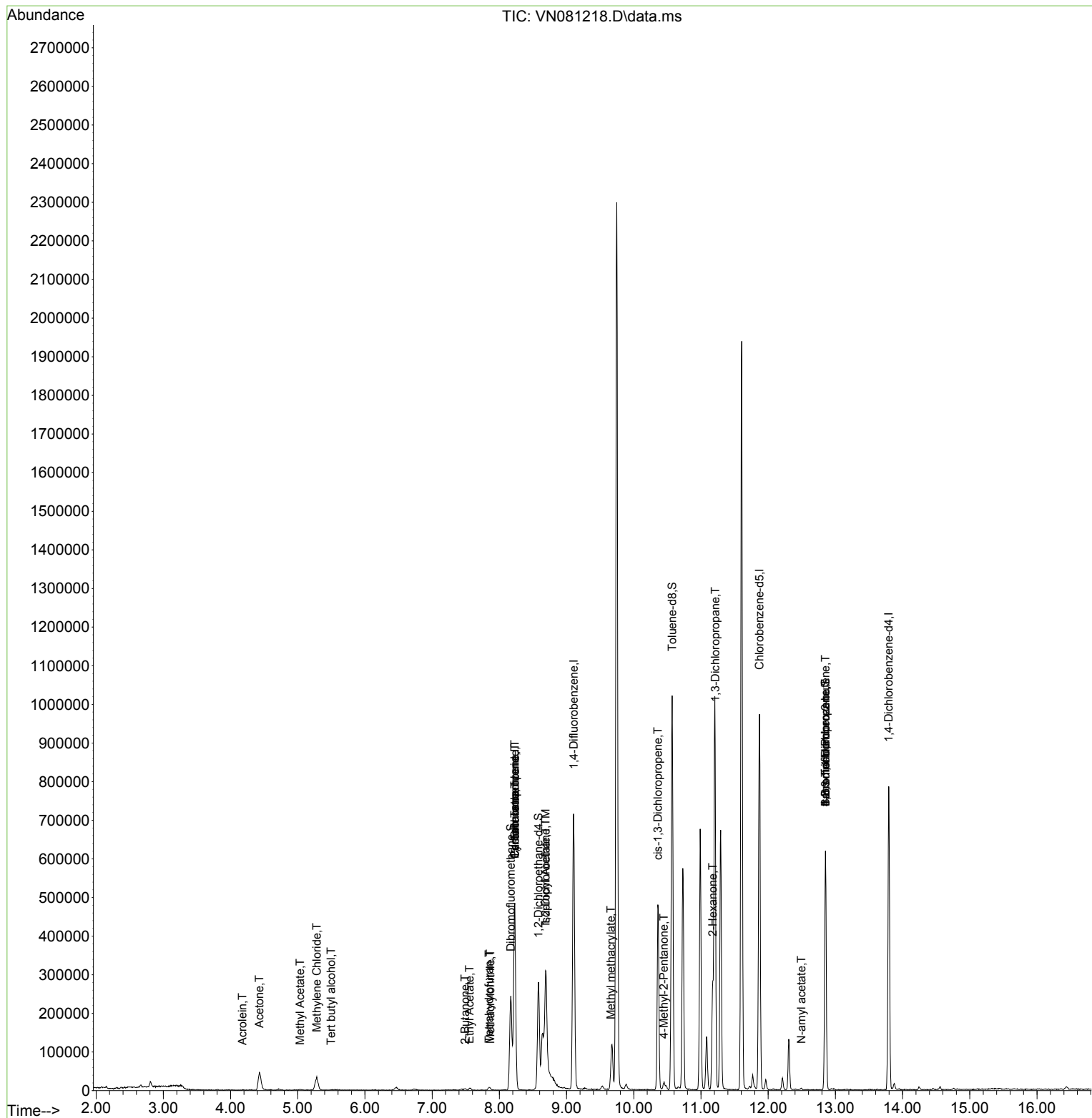
Internal Standards						
1) Pentafluorobenzene	8.229	168	323698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	616571	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	555749	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	193066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	216226	54.498	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.000%	
35) Dibromofluoromethane	8.171	113	173529	49.771	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.540%	
50) Toluene-d8	10.570	98	688787	55.623	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 111.240%	
62) 4-Bromofluorobenzene	12.853	95	211790	45.517	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 91.040%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1440	Below Cal	#	43
6) Chloroethane	3.118	64	242	Below Cal	#	42
11) Tert butyl alcohol	5.494	59	291	0.399	ug/l #	72
13) Acrolein	4.177	56	383	0.979	ug/l #	15
16) Acetone	4.430	43	87191	55.850	ug/l	99
18) Methyl Acetate	5.036	43	2512	0.660	ug/l #	84
20) Methylene Chloride	5.283	84	24488	5.231	ug/l	93
25) 2-Butanone	7.488	43	6050	2.399	ug/l #	86
29) Tetrahydrofuran	7.847	42	5703	3.387	ug/l	92
31) Cyclohexane	8.229	56	9230	1.347	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	30986	5.188	ug/l #	49
37) Ethyl Acetate	7.559	43	7386	1.370	ug/l #	80
38) Carbon Tetrachloride	8.229	117	37917	6.274	ug/l #	18
41) Methacrylonitrile	7.865	41	3458	1.127	ug/l #	51
42) 1,2-Dichloroethane	8.688	62	2159	0.358	ug/l #	75
43) Isopropyl Acetate	8.688	43	515391	54.665	ug/l #	77
48) Methyl methacrylate	9.659	41	7325	1.670	ug/l #	45
49) 1,4-Dioxane	9.706	88	68	Below Cal	#	18
51) 4-Methyl-2-Pentanone	10.447	43	20726	3.821	ug/l #	77
54) cis-1,3-Dichloropropene	10.359	75	86381	12.055	ug/l #	62
57) 1,3-Dichloropropane	11.212	76	11557	1.588	ug/l #	45
59) 2-Hexanone	11.176	43	221670	51.553	ug/l #	26
71) Bromoform	12.853	173	1311	0.478	ug/l #	1
74) N-amyl acetate	12.494	43	3167	0.444	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	115043	26.226	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	115043	67.504	ug/l #	14

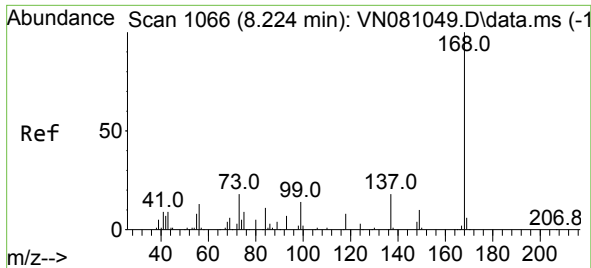
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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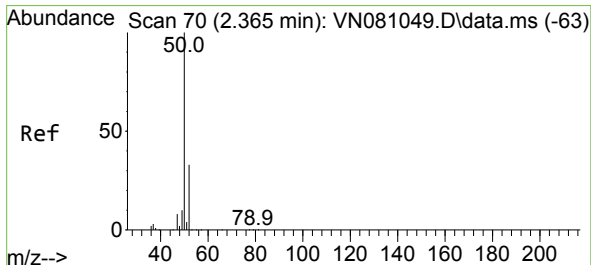
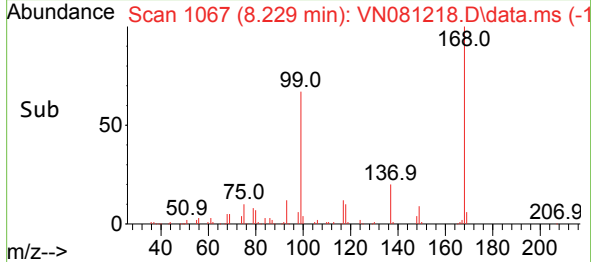
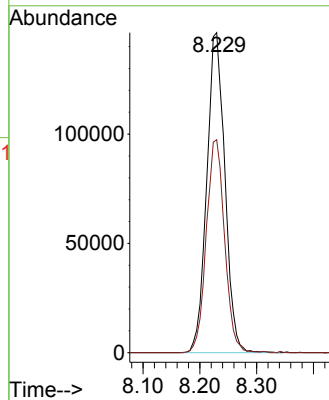
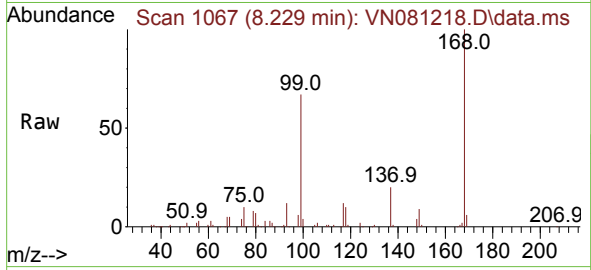




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

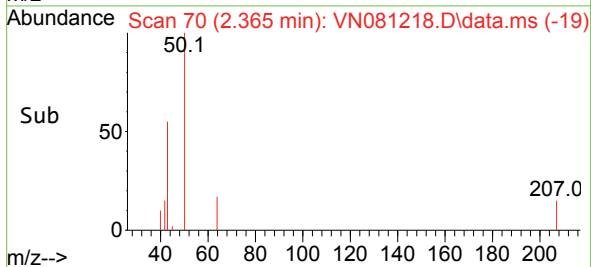
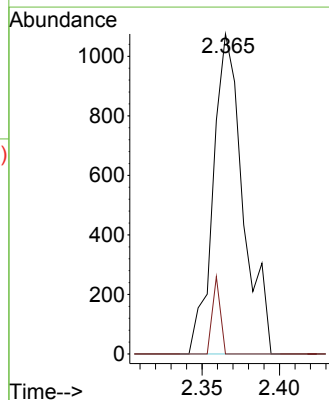
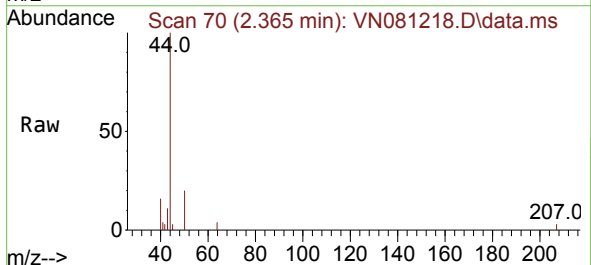
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

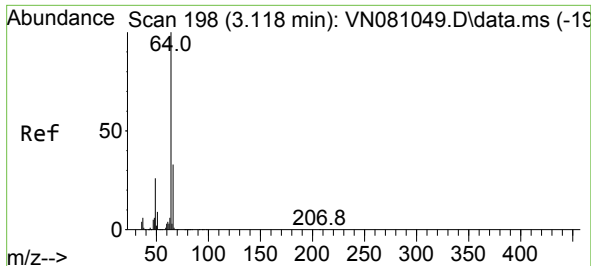
Tgt Ion:168 Resp: 323698
Ion Ratio Lower Upper
168 100
99 66.5 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 50 Resp: 1440
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

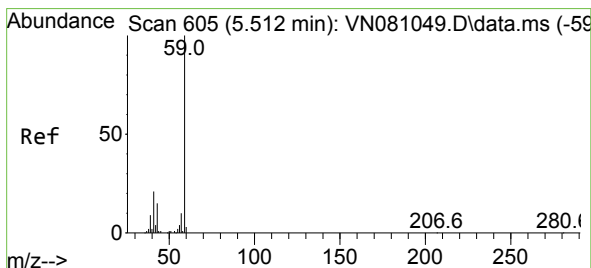
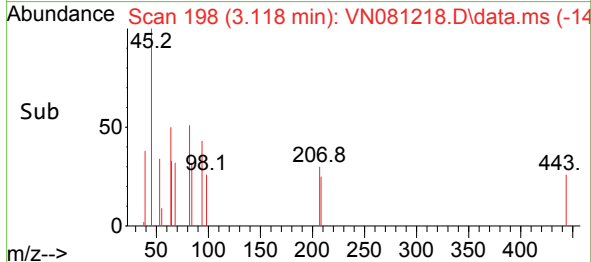
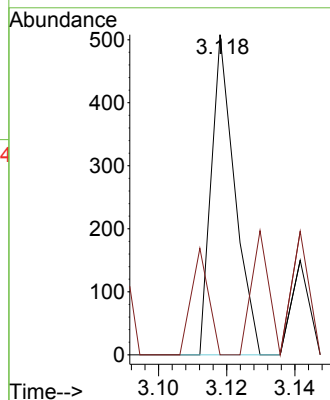
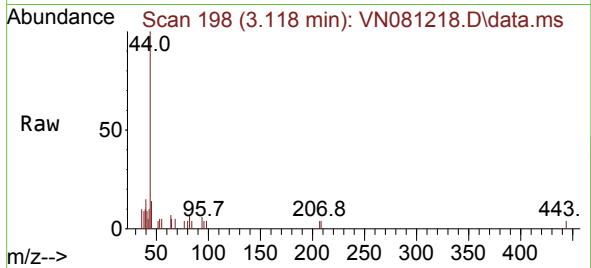




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

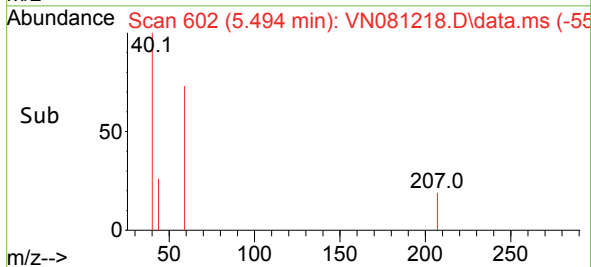
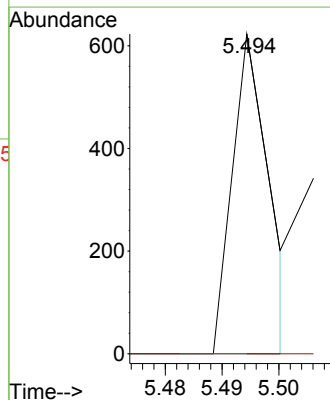
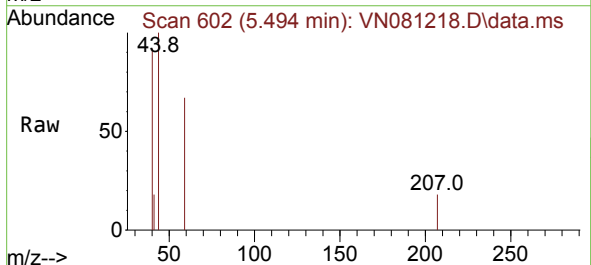
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

Tgt Ion: 64 Resp: 242
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 0.399 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.018 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 59 Resp: 291
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

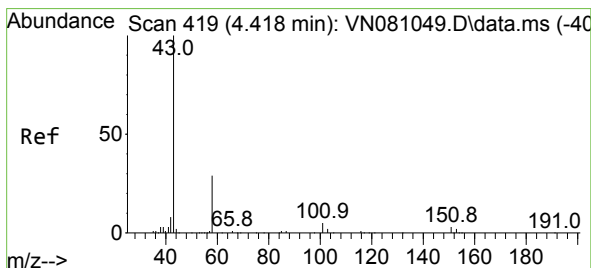
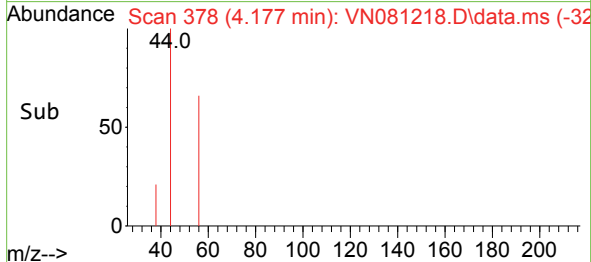
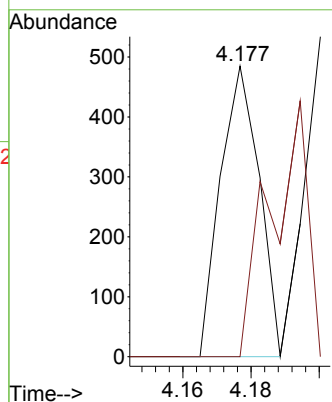
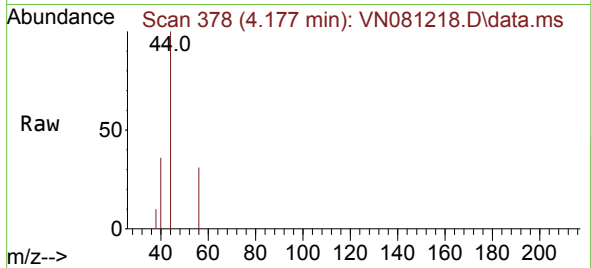




#13
Acrolein
Concen: 0.979 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

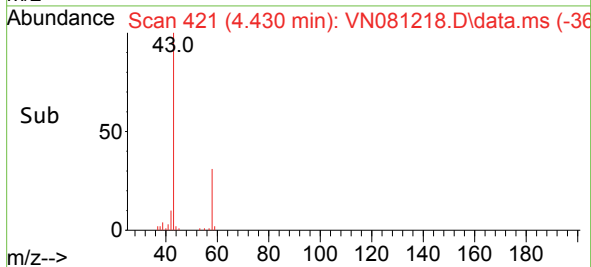
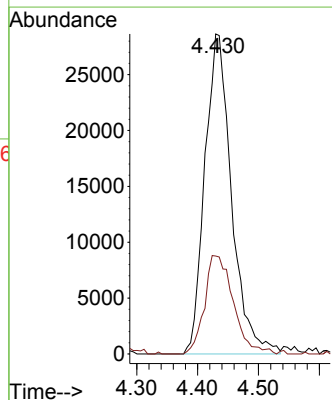
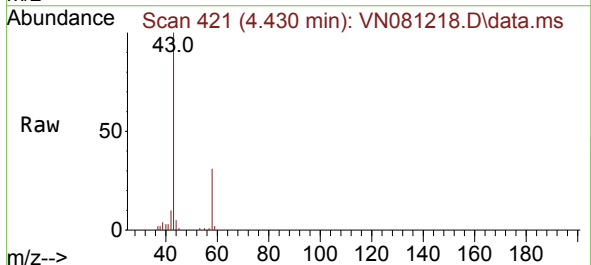
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

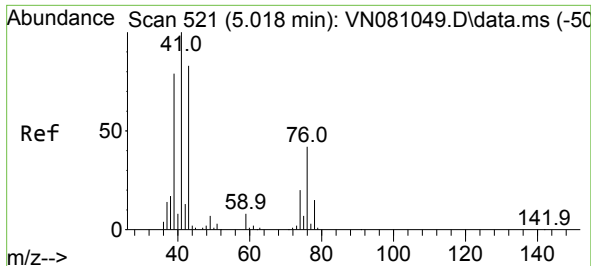
Tgt Ion: 56 Resp: 383
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#



#16
Acetone
Concen: 55.850 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 43 Resp: 87191
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2

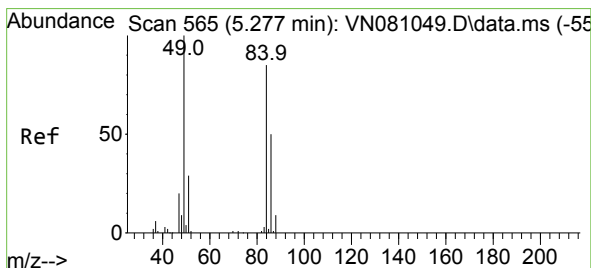
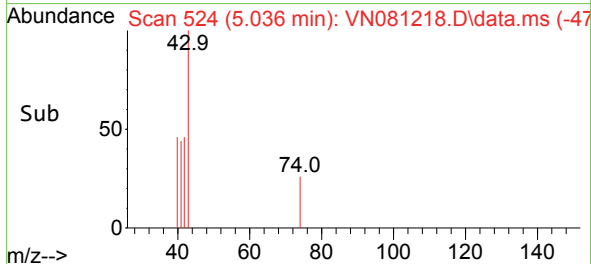
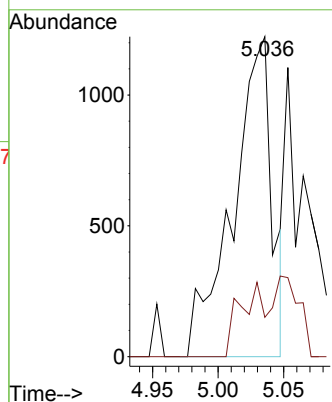
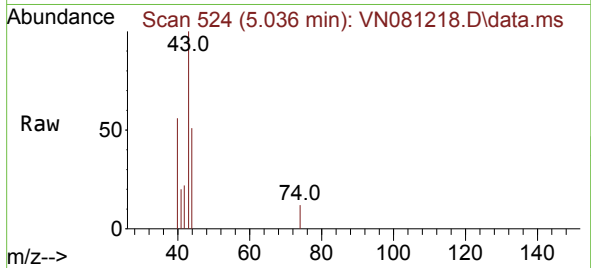




#18
Methyl Acetate
Concen: 0.660 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

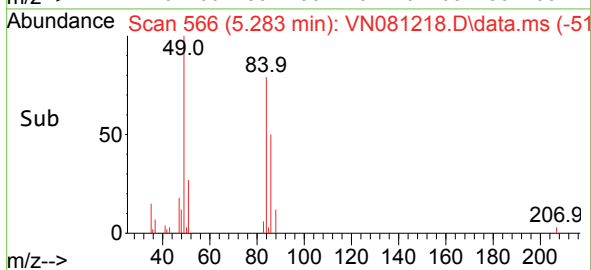
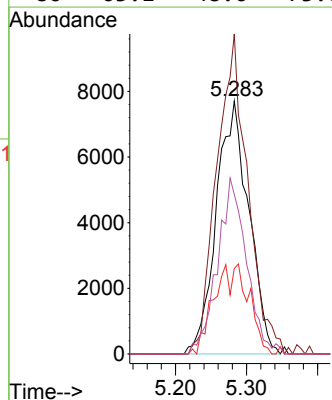
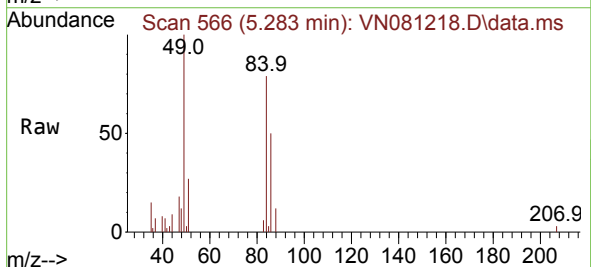
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

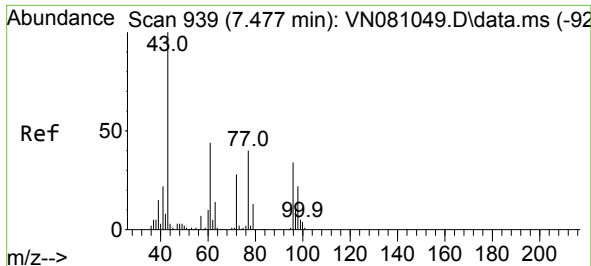
Tgt Ion: 43 Resp: 2512
Ion Ratio Lower Upper
43 100
74 14.2 17.3 25.9#



#20
Methylene Chloride
Concen: 5.231 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 84 Resp: 24488
Ion Ratio Lower Upper
84 100
49 126.5 108.1 162.1
51 33.8 32.9 49.3
86 63.1 48.6 73.0

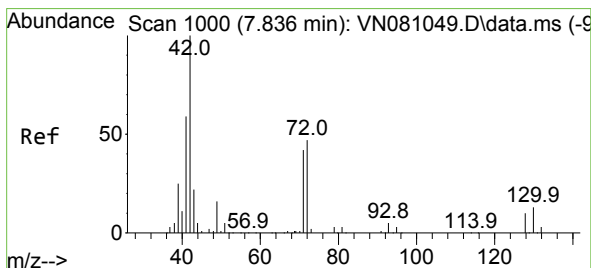
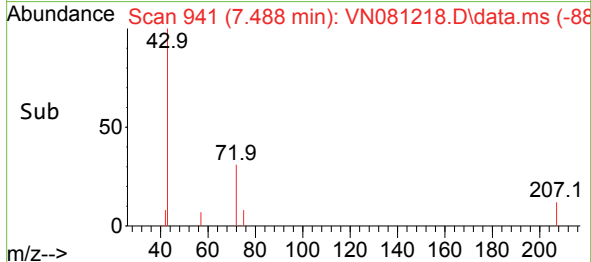
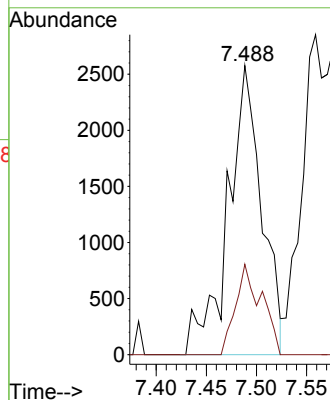
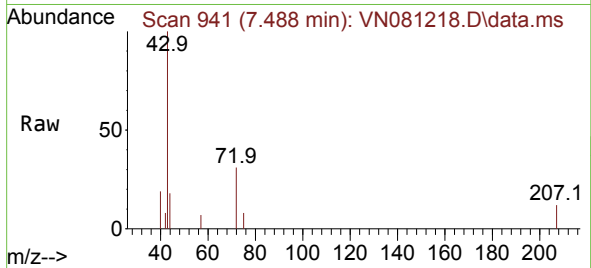




#25
2-Butanone
Concen: 2.399 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

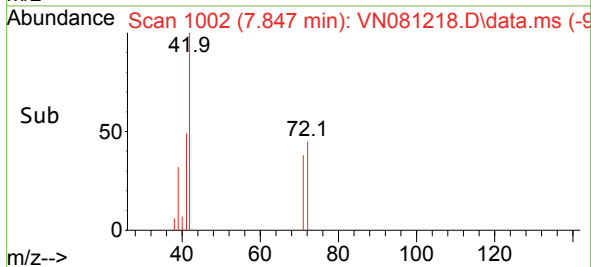
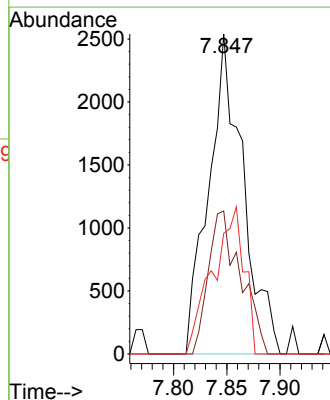
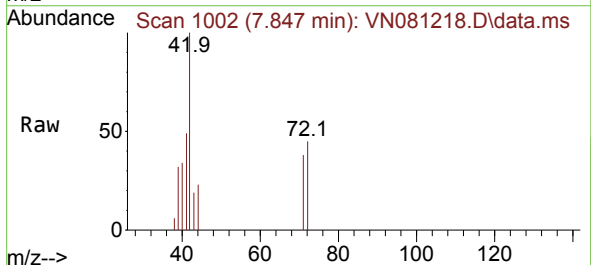
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VNJ-232

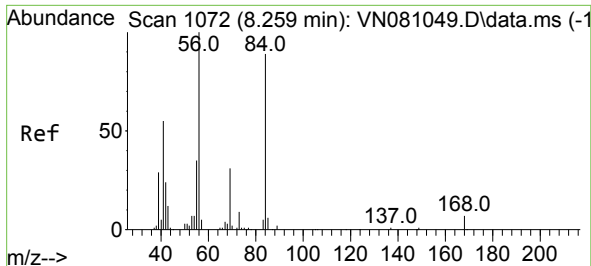
Tgt Ion: 43 Resp: 6050
Ion Ratio Lower Upper
43 100
72 31.3 19.5 29.3#



#29
Tetrahydrofuran
Concen: 3.387 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 42 Resp: 5703
Ion Ratio Lower Upper
42 100
72 42.1 31.1 46.7
71 42.2 28.3 42.5

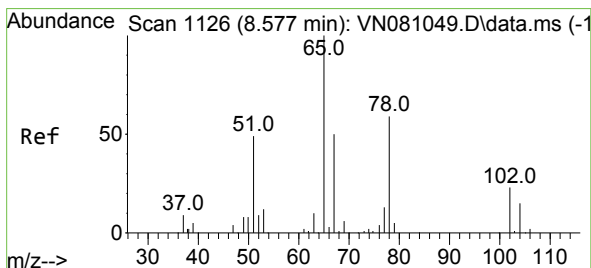
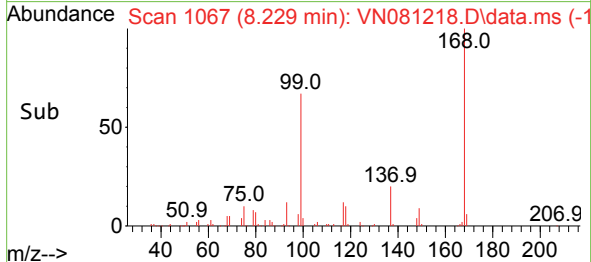
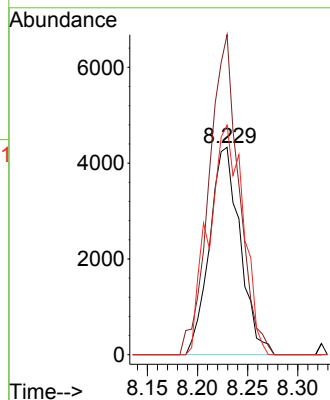
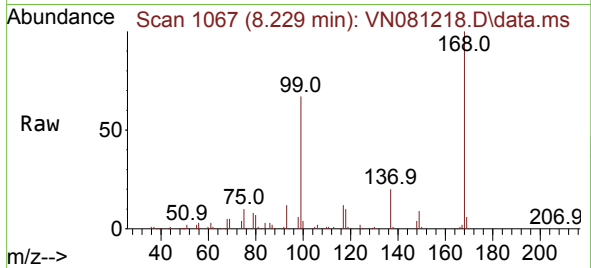




#31
Cyclohexane
Concen: 1.347 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

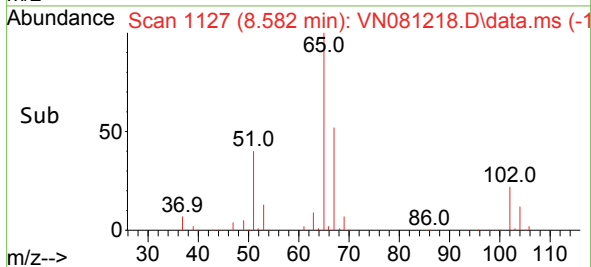
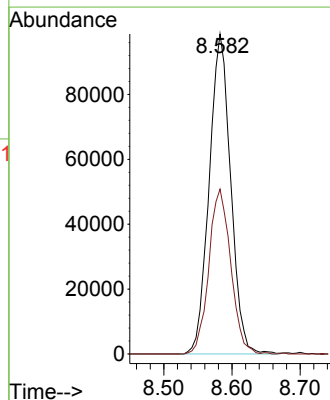
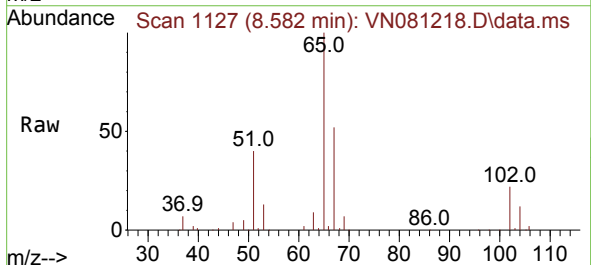
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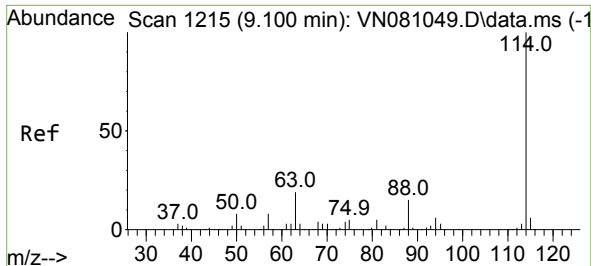
Tgt Ion: 56 Resp: 9230
Ion Ratio Lower Upper
56 100
69 154.3 20.1 30.1#
84 110.8 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 54.498 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 65 Resp: 216226
Ion Ratio Lower Upper
65 100
67 52.5 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Instrument :

MSVOA_N

ClientSampleId :

VNJ-232

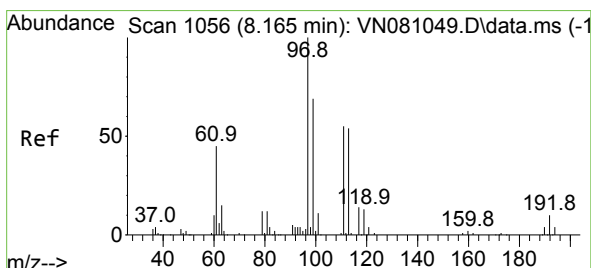
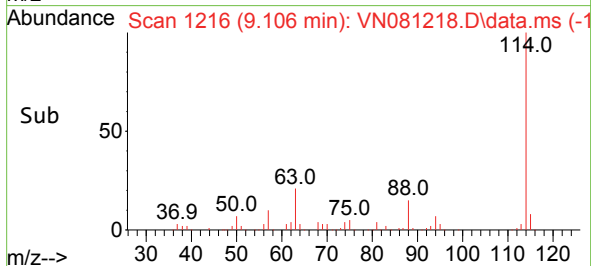
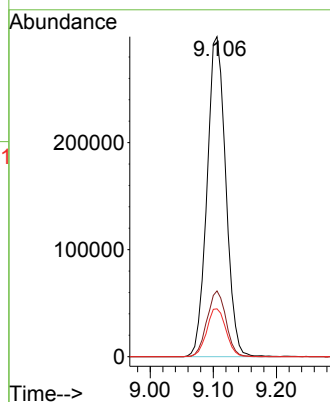
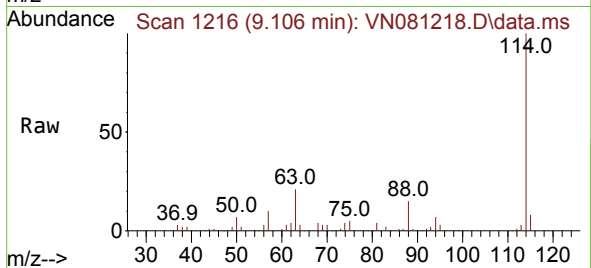
Tgt Ion:114 Resp: 616571

Ion Ratio Lower Upper

114 100

63 20.5 0.0 48.0

88 14.9 0.0 34.8



#35

Dibromofluoromethane

Concen: 49.771 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

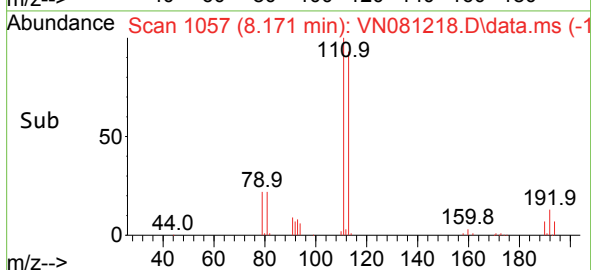
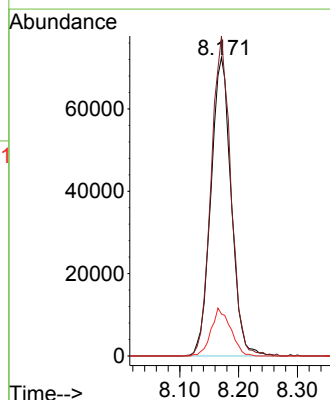
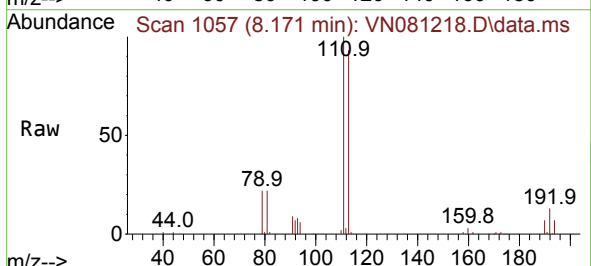
Tgt Ion:113 Resp: 173529

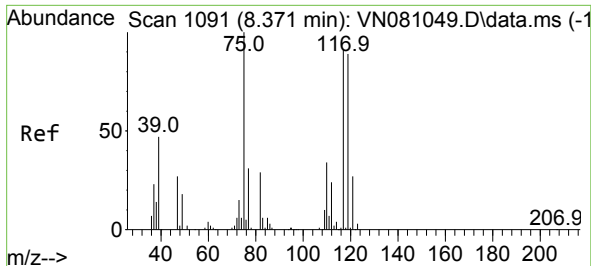
Ion Ratio Lower Upper

113 100

111 104.5 82.2 123.4

192 15.4 12.5 18.7





#36

1,1-Dichloropropene

Concen: 5.188 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Instrument :

MSVOA_N

ClientSampleId :

VNJ-232

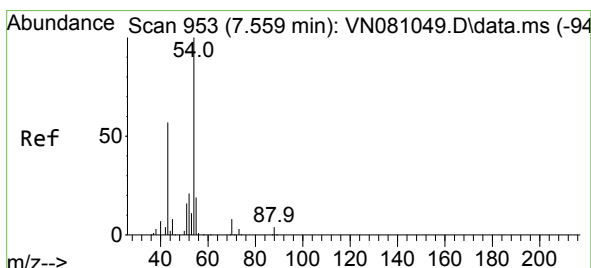
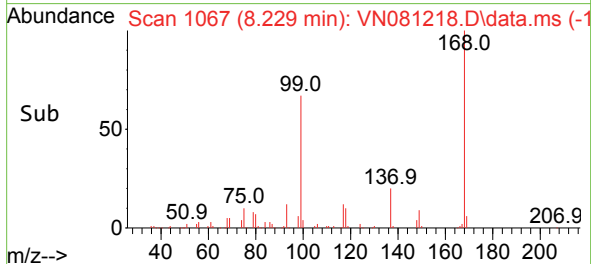
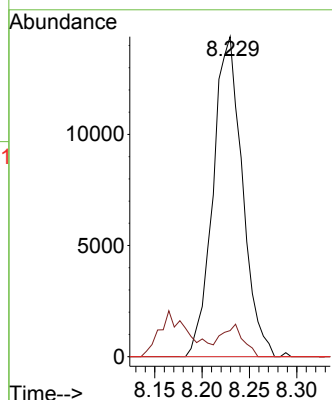
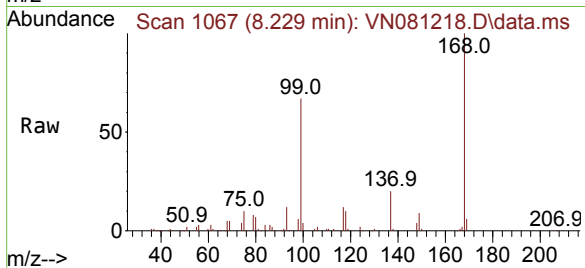
Tgt Ion: 75 Resp: 30986

Ion Ratio Lower Upper

75 100

110 7.3 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.370 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

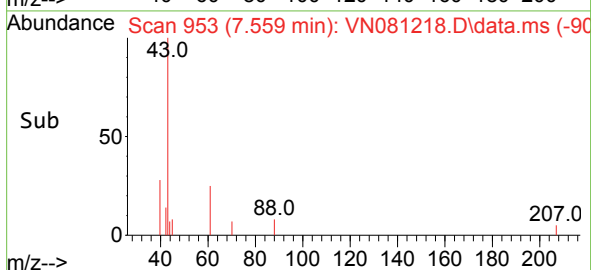
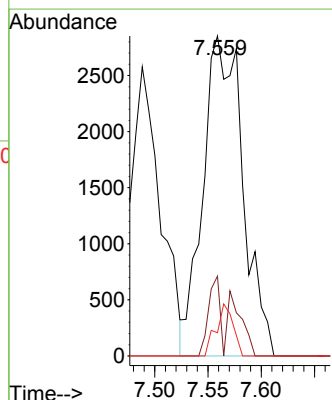
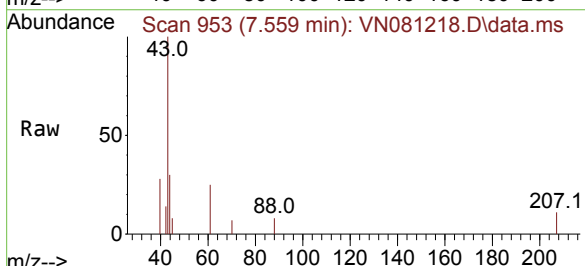
Tgt Ion: 43 Resp: 7386

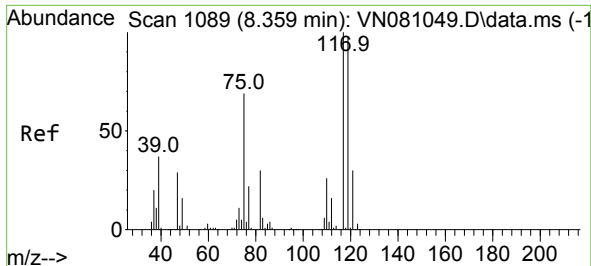
Ion Ratio Lower Upper

43 100

61 7.1 10.6 15.8#

70 0.0 8.0 12.0#

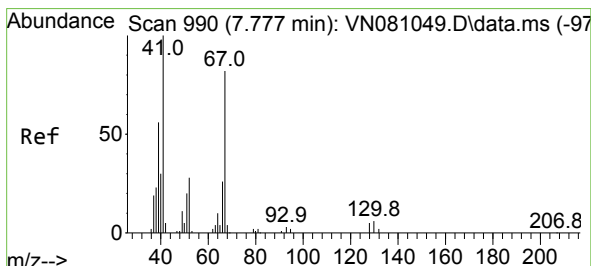
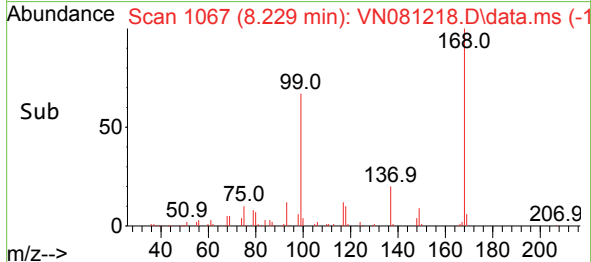
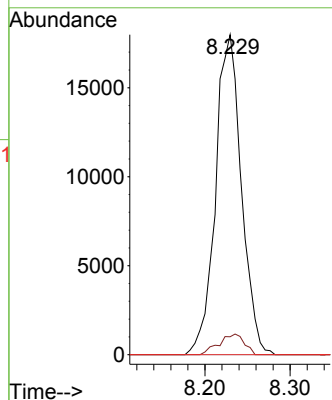
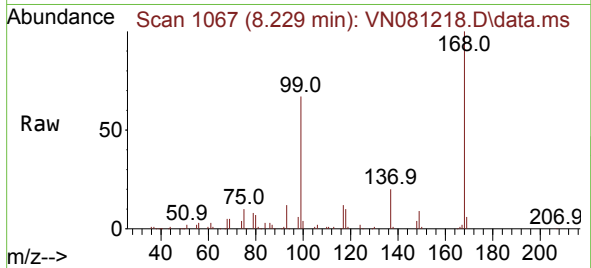




#38
Carbon Tetrachloride
Concen: 6.274 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.130 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

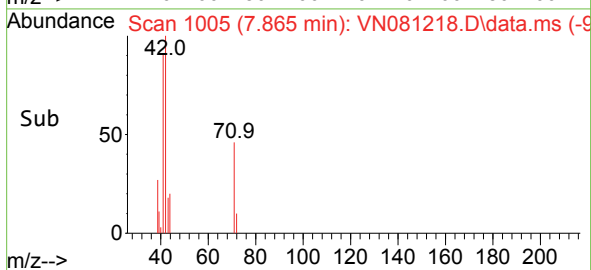
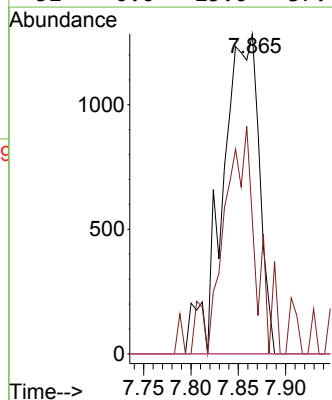
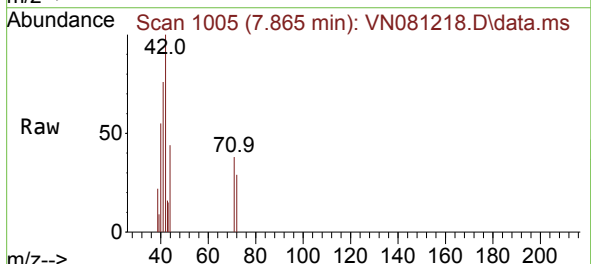
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

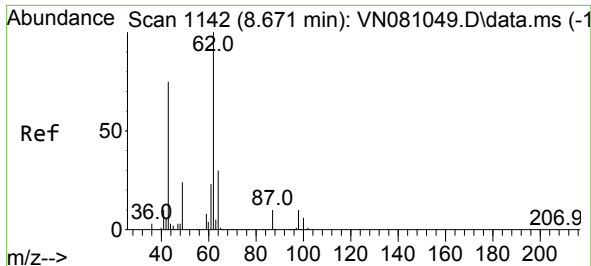
Tgt Ion:117 Resp: 37917
Ion Ratio Lower Upper
117 100
119 5.6 73.4 110.2#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 1.127 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.088 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 41 Resp: 3458
Ion Ratio Lower Upper
41 100
39 59.2 48.4 72.6
67 0.0 56.8 85.2#
52 0.0 25.0 37.4#





#42

1,2-Dichloroethane

Concen: 0.358 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Instrument :

MSVOA_N

ClientSampleId :

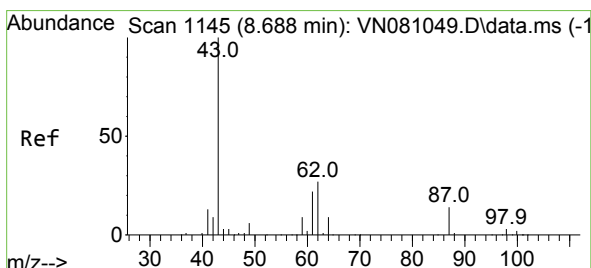
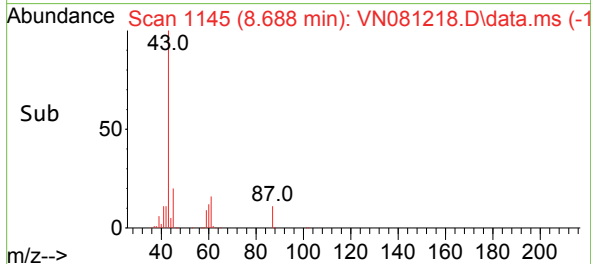
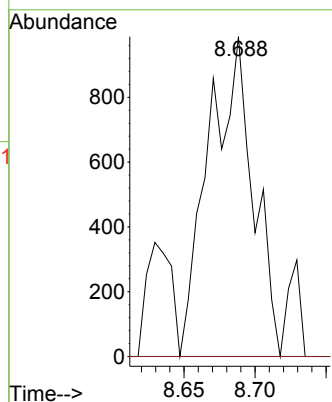
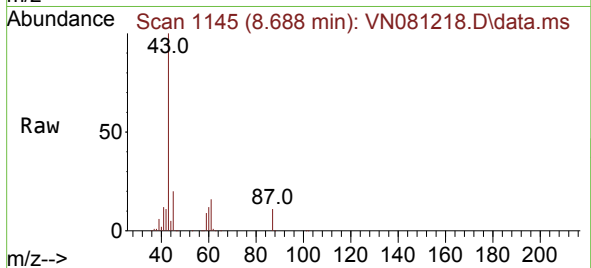
VNJ-232

Tgt Ion: 62 Resp: 2159

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 54.665 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

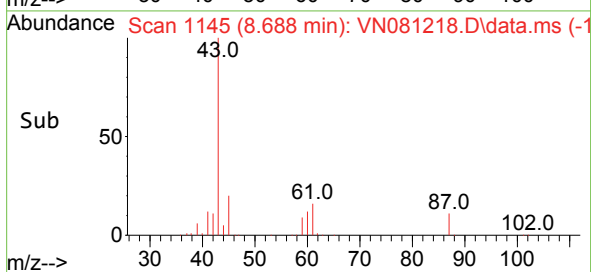
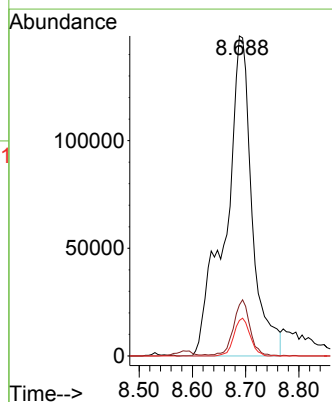
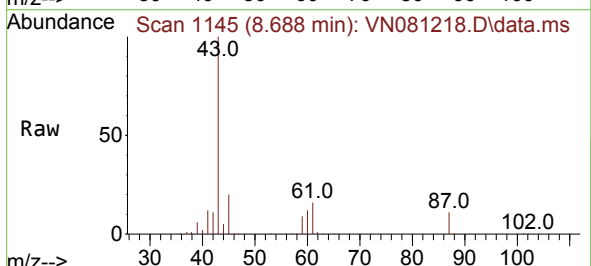
Tgt Ion: 43 Resp: 515391

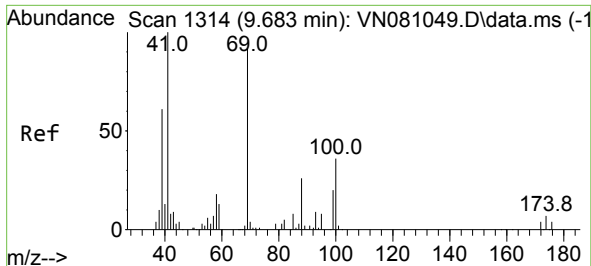
Ion Ratio Lower Upper

43 100

61 10.9 19.9 29.9#

87 7.2 9.0 13.6#

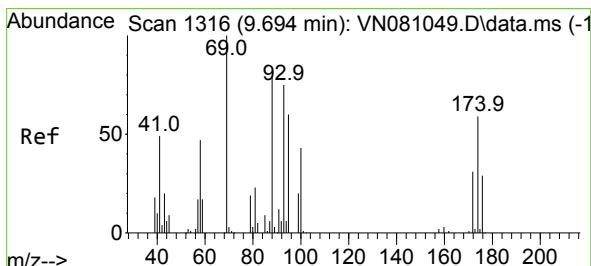
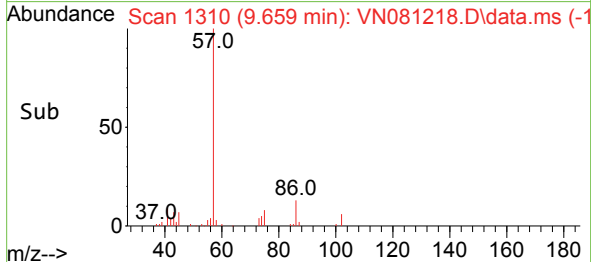
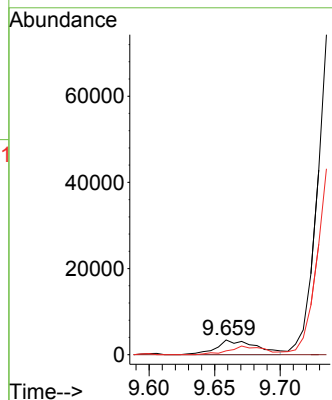
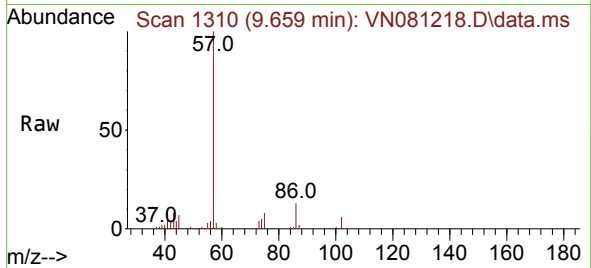




#48
Methyl methacrylate
Concen: 1.670 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

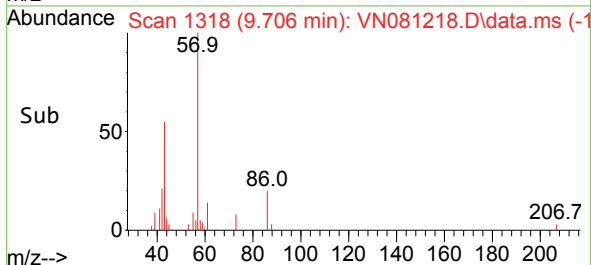
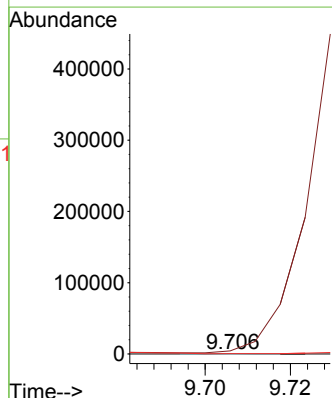
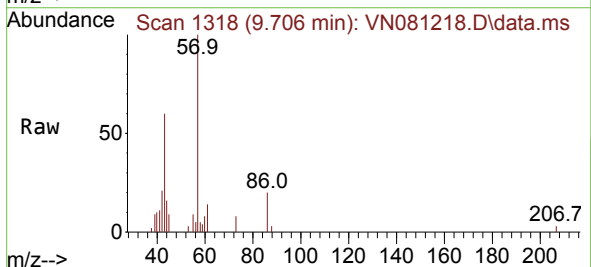
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

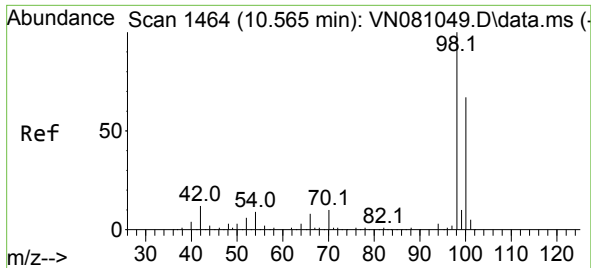
Tgt Ion: 41 Resp: 7325
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 52.3 47.6 71.4



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 0.0 63.9 95.9#

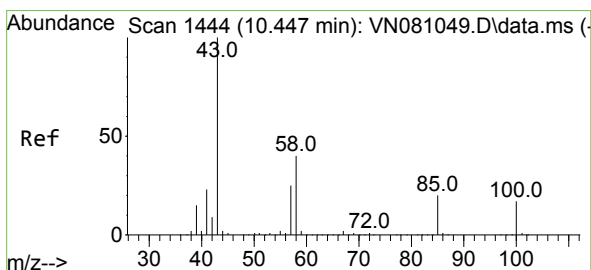
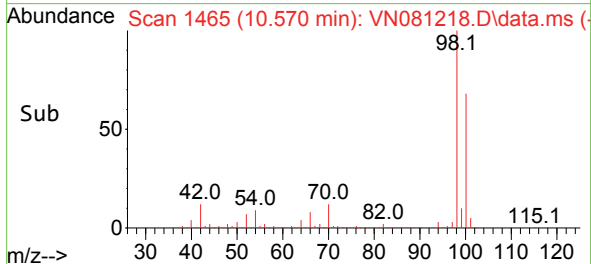
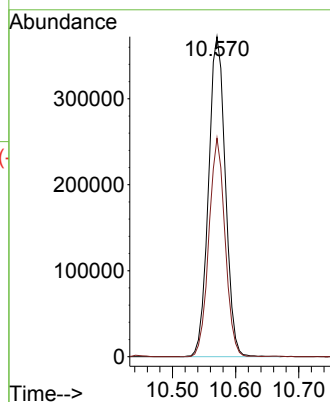
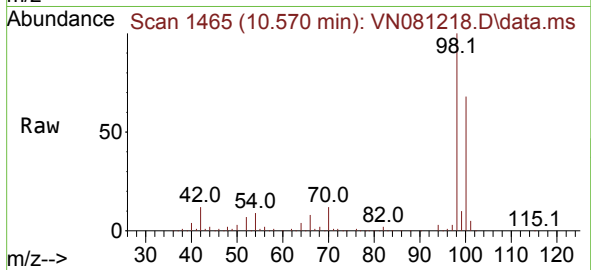




#50
Toluene-d8
Concen: 55.623 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

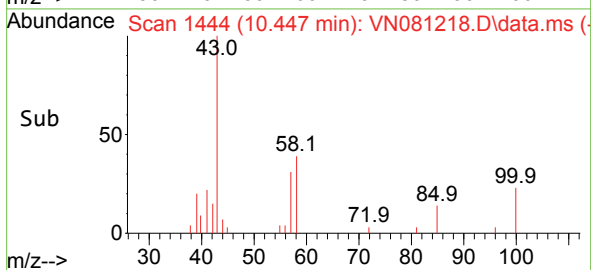
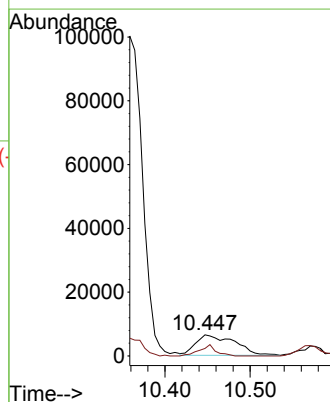
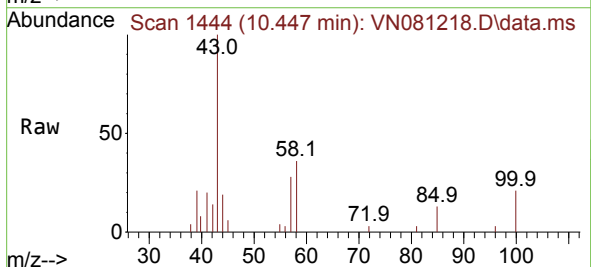
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

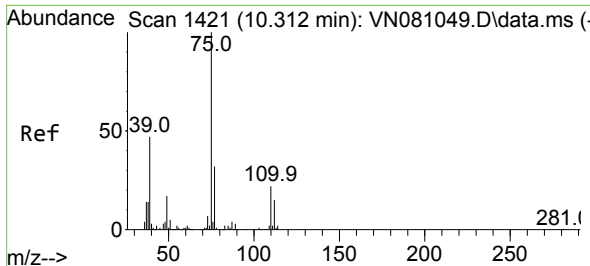
Tgt Ion: 98 Resp: 688787
Ion Ratio Lower Upper
98 100
100 65.6 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 3.821 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 43 Resp: 20726
Ion Ratio Lower Upper
43 100
58 22.8 29.4 44.0#

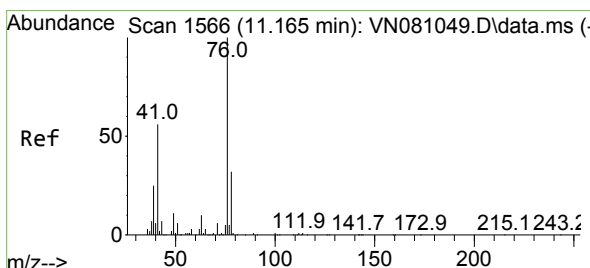
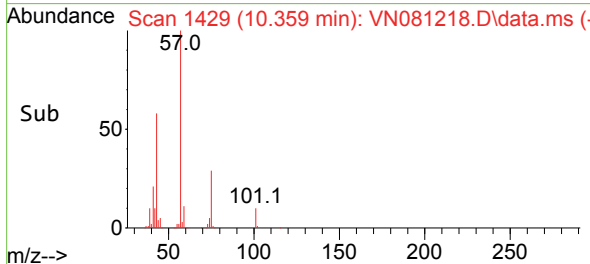
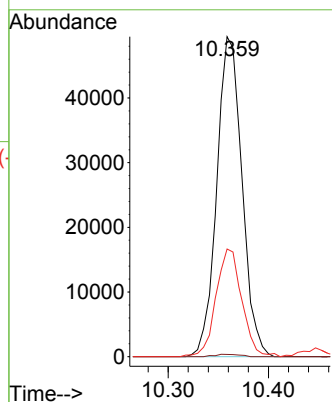
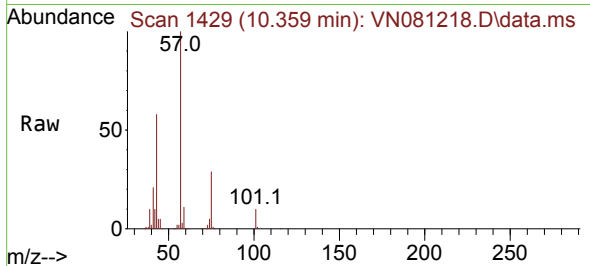




#54
 cis-1,3-Dichloropropene
 Concen: 12.055 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081218.D
 Acq: 27 Feb 2024 14:46

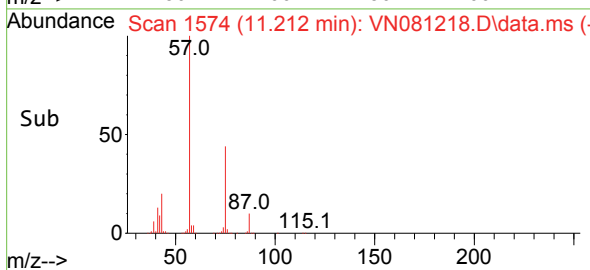
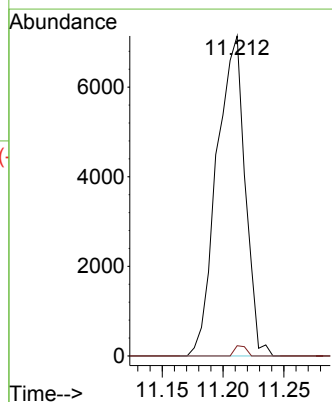
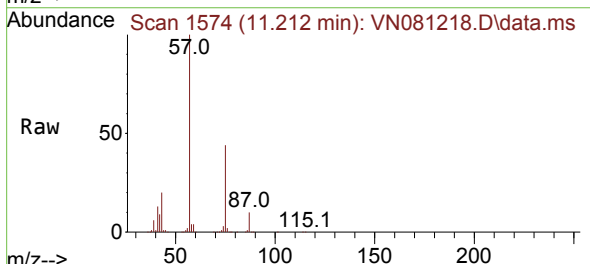
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-232

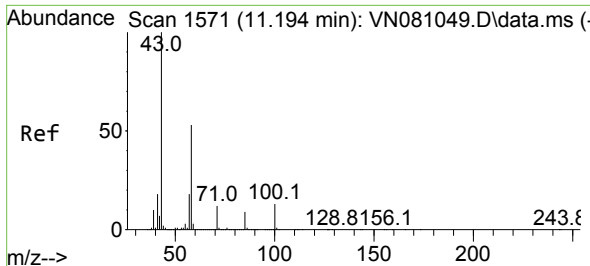
Tgt Ion: 75 Resp: 86381
 Ion Ratio Lower Upper
 75 100
 77 0.7 23.3 34.9#
 39 33.7 44.6 66.8#



#57
 1,3-Dichloropropane
 Concen: 1.588 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN081218.D
 Acq: 27 Feb 2024 14:46

Tgt Ion: 76 Resp: 11557
 Ion Ratio Lower Upper
 76 100
 78 1.3 25.5 38.3#

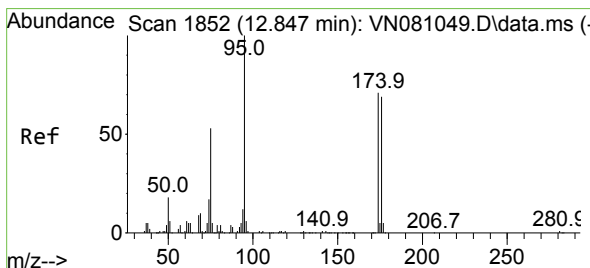
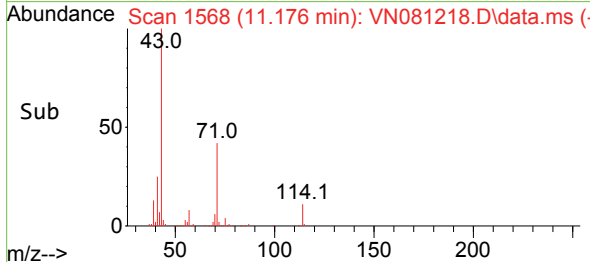
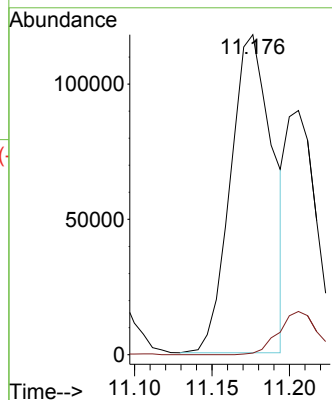
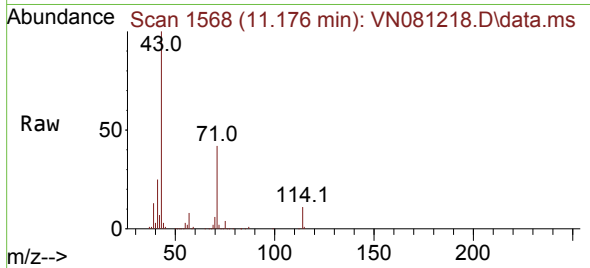




#59
2-Hexanone
Concen: 51.553 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.018 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

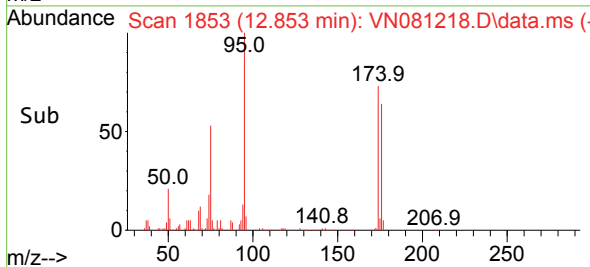
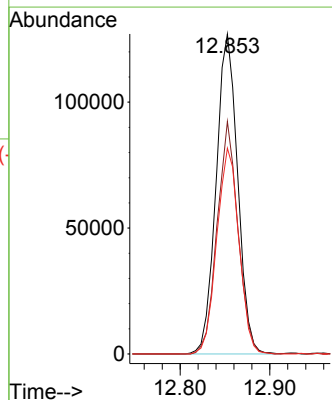
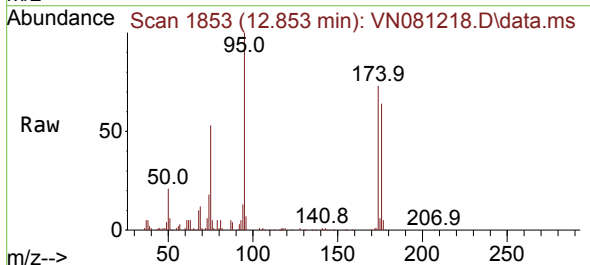
Instrument :
MSVOA_N
ClientSampleId :
VNJ-232

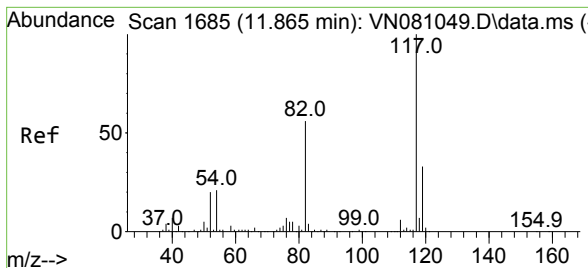
Tgt Ion: 43 Resp: 221670
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 45.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081218.D
Acq: 27 Feb 2024 14:46

Tgt Ion: 95 Resp: 211790
Ion Ratio Lower Upper
95 100
174 70.4 0.0 120.4
176 65.9 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Instrument :

MSVOA_N

ClientSampleId :

VNJ-232

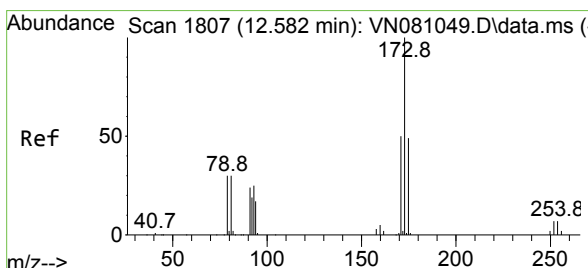
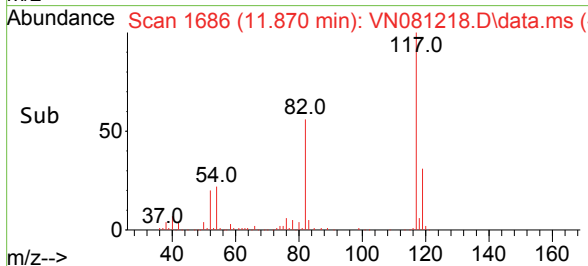
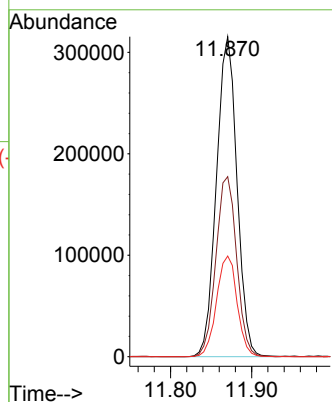
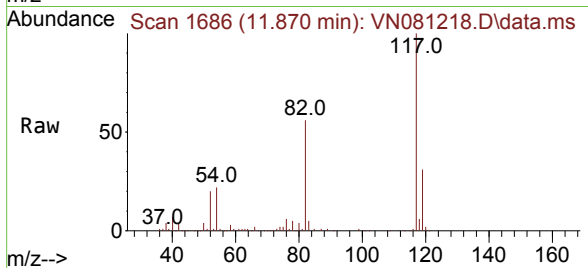
Tgt Ion:117 Resp: 555749

Ion Ratio Lower Upper

117 100

82 56.2 52.7 79.1

119 31.4 25.3 37.9



#71

Bromoform

Concen: 0.478 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.270 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

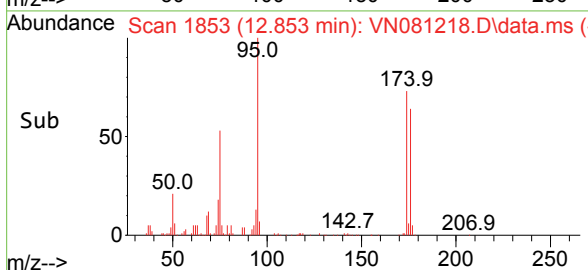
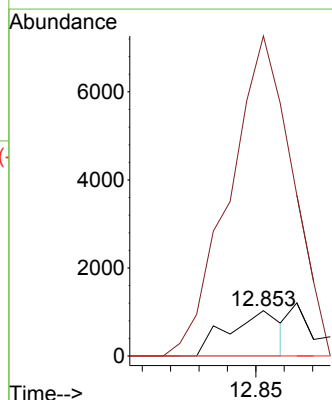
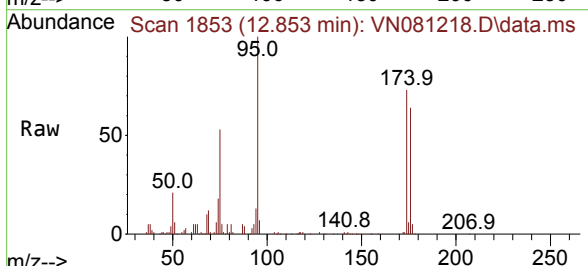
Tgt Ion:173 Resp: 1311

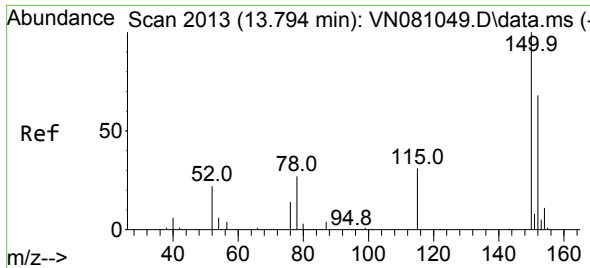
Ion Ratio Lower Upper

173 100

175 710.5 23.1 69.2#

254 0.0 0.0 0.0

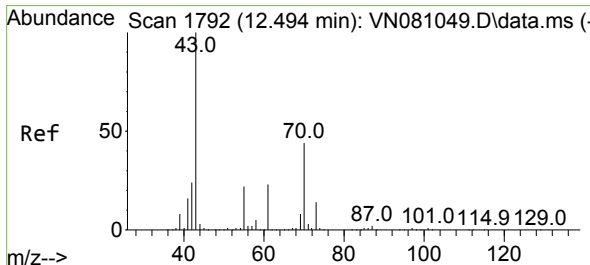
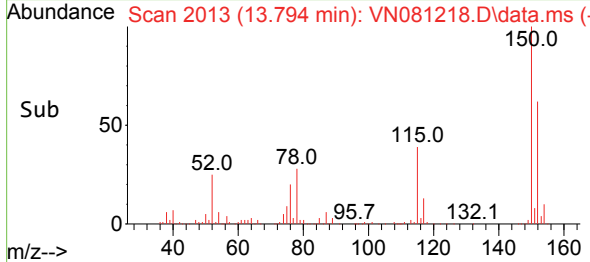
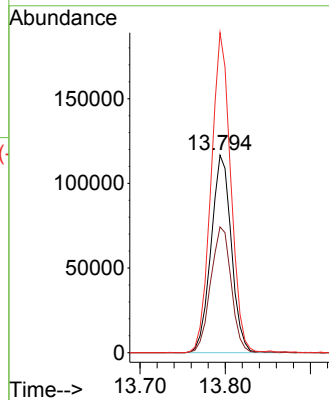
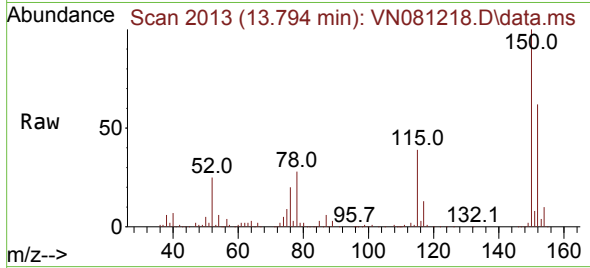




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN081218.D
 Acq: 27 Feb 2024 14:46

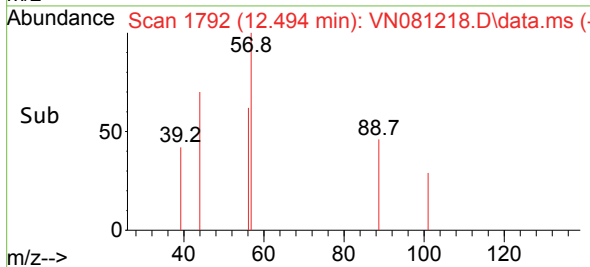
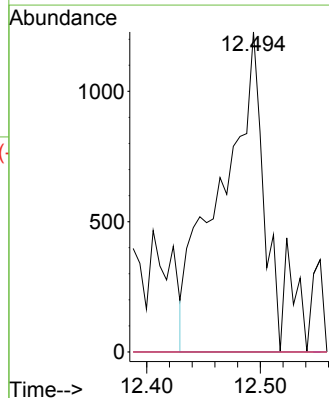
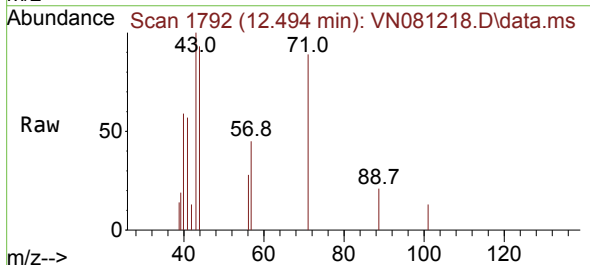
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-232

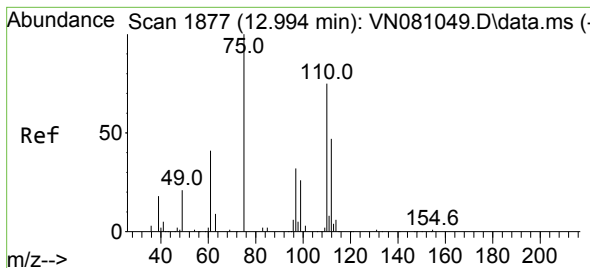
Tgt Ion:152 Resp: 193066
 Ion Ratio Lower Upper
 152 100
 115 64.5 32.3 96.8
 150 156.8 0.0 339.8



#74
 N-ethyl acetate
 Concen: 0.444 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.000 min
 Lab File: VN081218.D
 Acq: 27 Feb 2024 14:46

Tgt Ion: 43 Resp: 3167
 Ion Ratio Lower Upper
 43 100
 70 0.0 30.1 45.1#
 55 0.0 17.0 25.4#
 61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 26.226 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Instrument :

MSVOA_N

ClientSampleId :

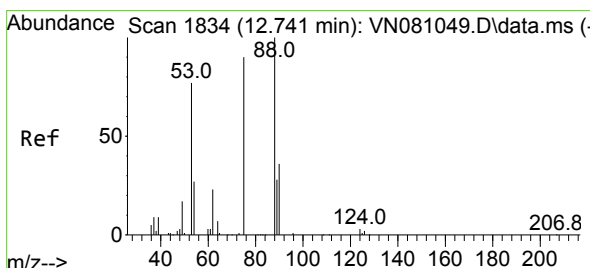
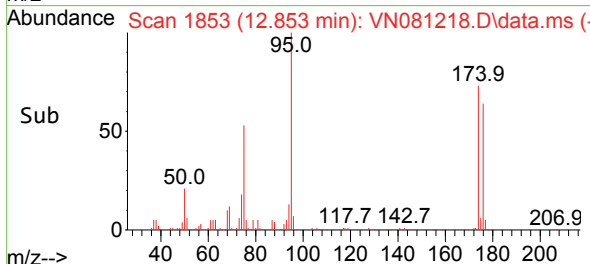
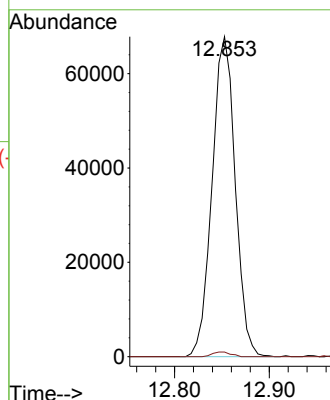
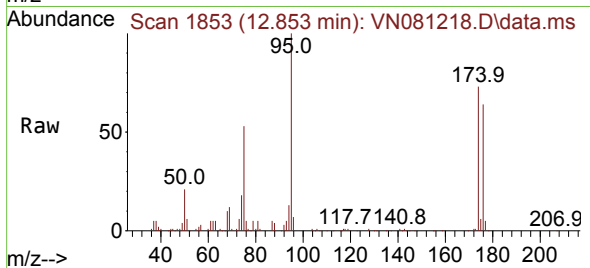
VNJ-232

Tgt Ion: 75 Resp: 115043

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.504 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081218.D

Acq: 27 Feb 2024 14:46

Tgt Ion: 75 Resp: 115043

Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#

