

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050924\
 Data File : VN082057.D
 Acq On : 09 May 2024 17:46
 Operator : JC\MD
 Sample : P2413-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

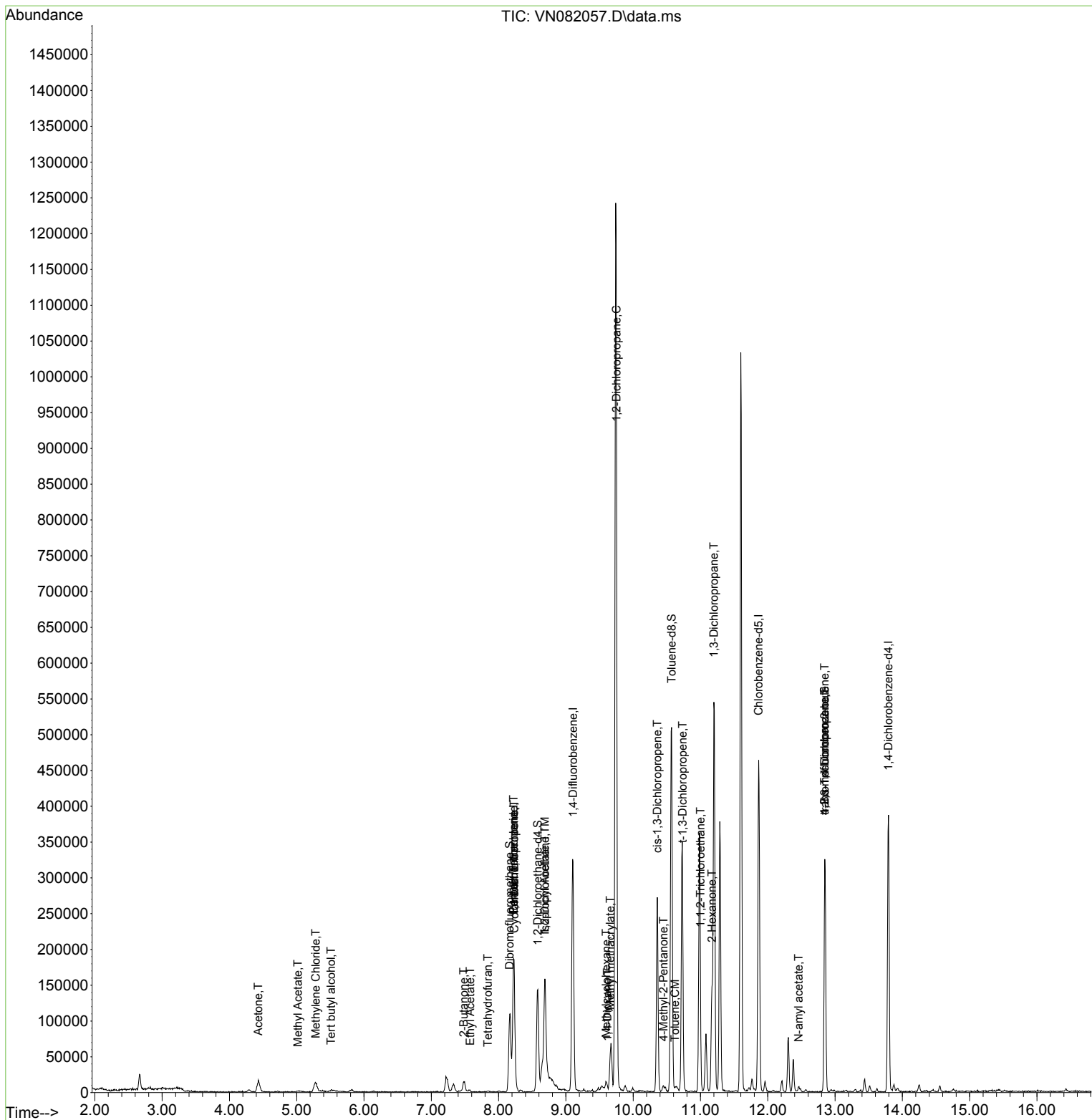
Quant Time: May 10 03:54:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

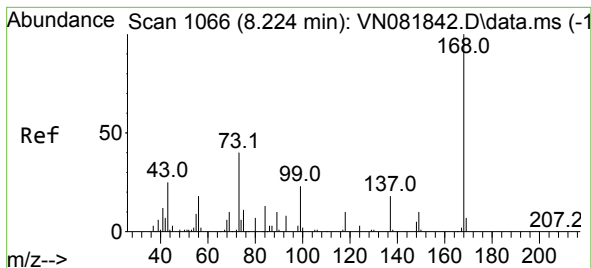
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	118771	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.106	114	268830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	241921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	92953	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	109880	54.816	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.640%	
35) Dibromofluoromethane	8.165	113	79016	48.818	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.640%	
50) Toluene-d8	10.571	98	342776	53.922	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.840%	
62) 4-Bromofluorobenzene	12.847	95	114463	45.550	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	= 91.100%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	517	Below Cal	#	3
11) Tert butyl alcohol	5.512	59	2624	7.201	ug/l	95
13) Acrolein	4.200	56	286	Below Cal	#	35
16) Acetone	4.430	43	28519	43.598	ug/l	# 87
18) Methyl Acetate	5.018	43	1752	0.863	ug/l	# 79
20) Methylene Chloride	5.283	84	9042	5.263	ug/l	# 68
25) 2-Butanone	7.483	43	23999	21.094	ug/l	# 81
29) Tetrahydrofuran	7.841	42	1446	1.772	ug/l	# 42
31) Cyclohexane	8.235	56	8207	2.718	ug/l	# 49
36) 1,1-Dichloropropene	8.230	75	13588	5.160	ug/l	# 41
37) Ethyl Acetate	7.577	43	3608	1.267	ug/l	# 93
38) Carbon Tetrachloride	8.224	117	14723	5.721	ug/l	# 18
39) Methylcyclohexane	9.600	83	5651	1.767	ug/l	# 85
42) 1,2-Dichloroethane	8.688	62	820	0.279	ug/l	# 73
43) Isopropyl Acetate	8.688	43	222974	41.651	ug/l	# 75
45) 1,2-Dichloropropane	9.753	63	1831	0.885	ug/l	# 45
48) Methyl methacrylate	9.659	41	5661	2.215	ug/l	# 38
49) 1,4-Dioxane	9.618	88	55	1.416	ug/l	# 28
51) 4-Methyl-2-Pentanone	10.453	43	7482	2.483	ug/l	89
52) Toluene	10.624	92	2433	0.514	ug/l	85
53) t-1,3-Dichloropropene	10.735	75	866	0.264	ug/l	# 61
54) cis-1,3-Dichloropropene	10.359	75	46376	13.714	ug/l	# 67
55) 1,1,2-Trichloroethane	11.000	97	528	0.284	ug/l	# 14
57) 1,3-Dichloropropane	11.200	76	5265	1.591	ug/l	# 42
59) 2-Hexanone	11.171	43	119808	53.420	ug/l	# 23
74) N-amyl acetate	12.459	43	6165	1.340	ug/l	# 42
76) 1,2,3-Trichloropropane	12.847	75	64766	26.873	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	64766	55.066	ug/l	# 12

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

Quant Time: May 10 03:54:45 2024
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QLast Update : Fri Apr 26 05:26:49 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

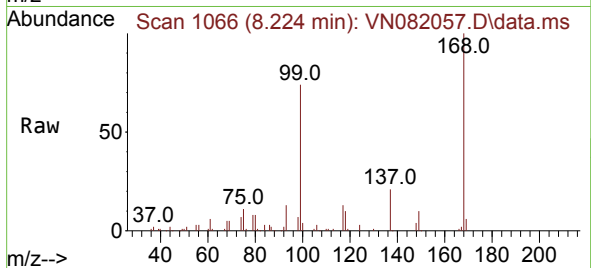
Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

ClientSampleId :

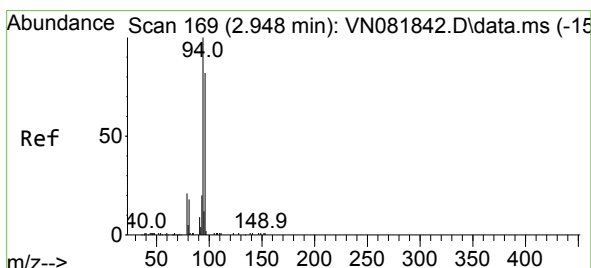
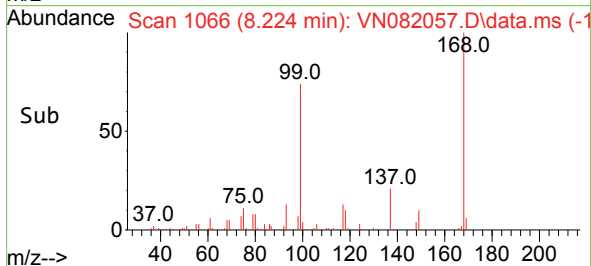
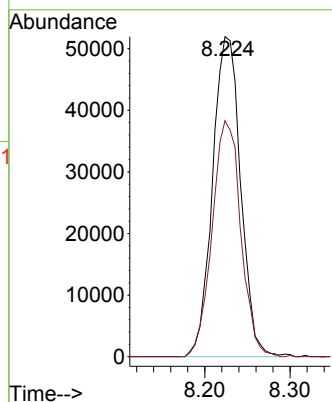


Tgt Ion:168 Resp: 118771

Ion Ratio Lower Upper

168 100

99 73.7 48.2 72.4#



#5

Bromomethane

Concen: Below Cal

RT: 2.977 min Scan# 174

Delta R.T. 0.029 min

Lab File: VN082057.D

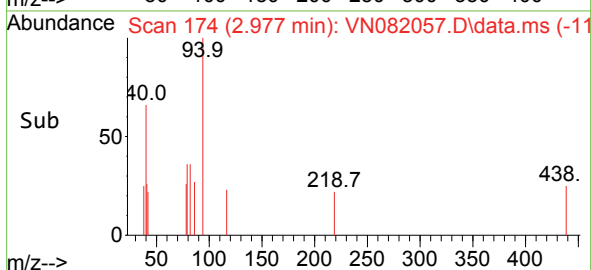
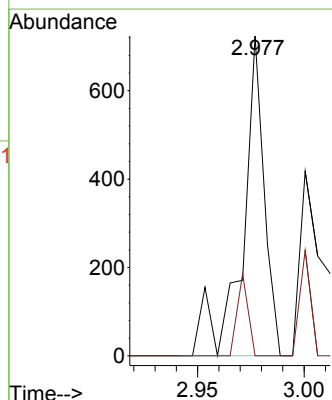
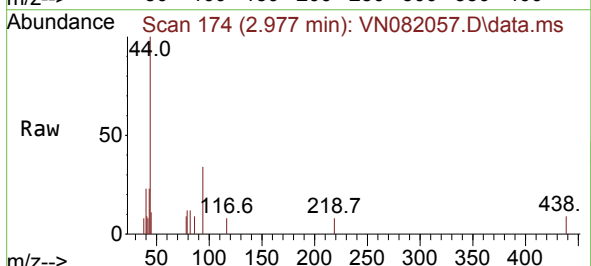
Acq: 09 May 2024 17:46

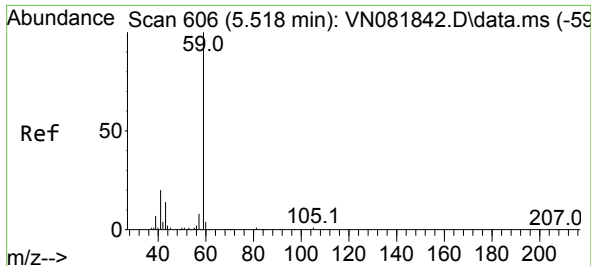
Tgt Ion: 94 Resp: 517

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#





#11

Tert butyl alcohol

Concen: 7.201 ug/l

RT: 5.512 min Scan# 606

Delta R.T. -0.006 min

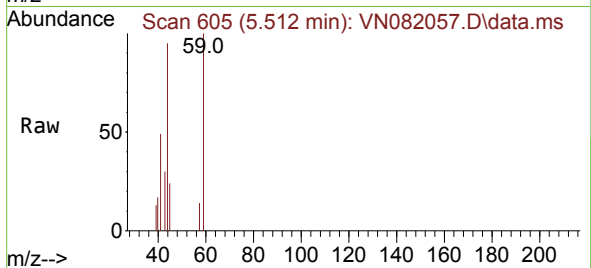
Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

ClientSampleId :

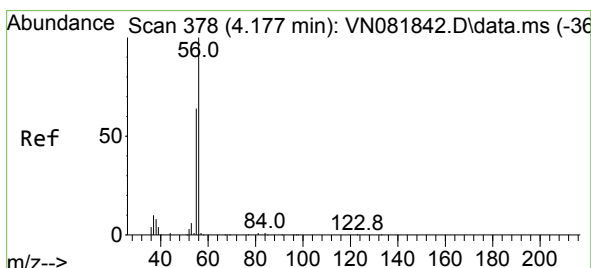
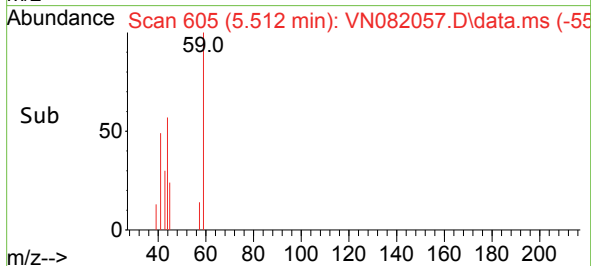
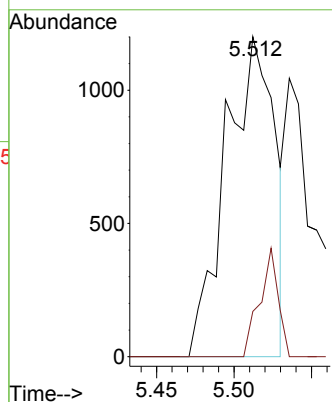


Tgt Ion: 59 Resp: 2624

Ion Ratio Lower Upper

59 100

57 12.9 8.9 13.3



#13

Acrolein

Concen: Below Cal

RT: 4.200 min Scan# 382

Delta R.T. 0.023 min

Lab File: VN082057.D

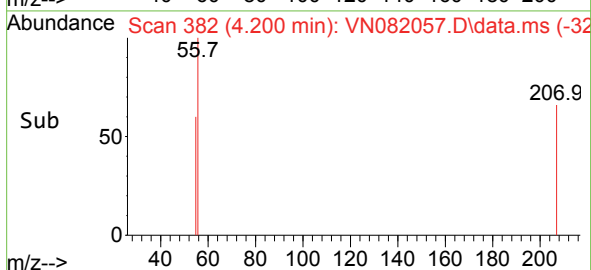
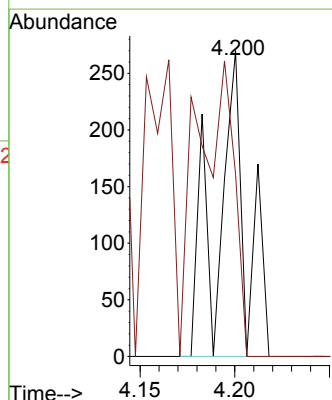
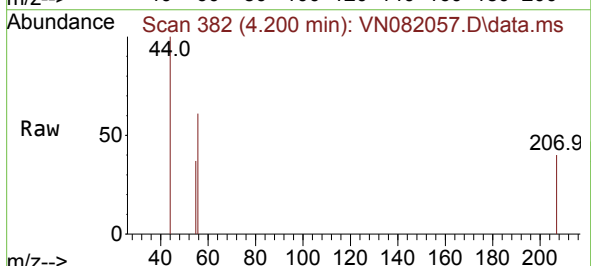
Acq: 09 May 2024 17:46

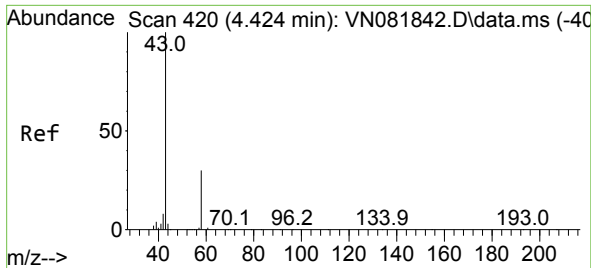
Tgt Ion: 56 Resp: 286

Ion Ratio Lower Upper

56 100

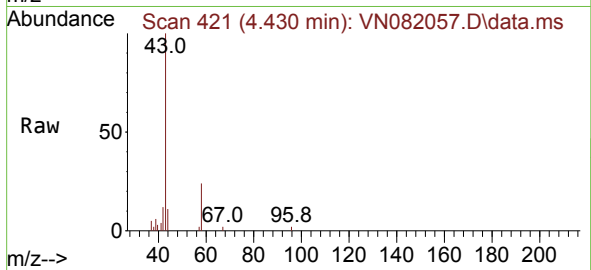
55 122.7 55.8 83.8#



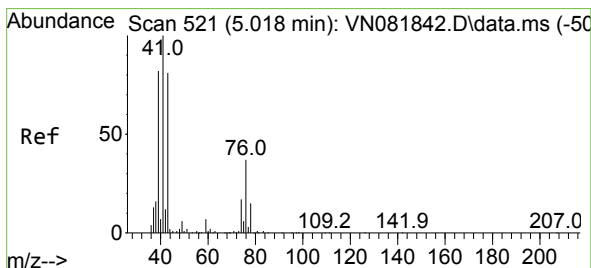
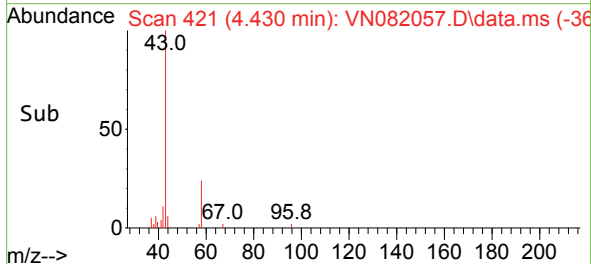
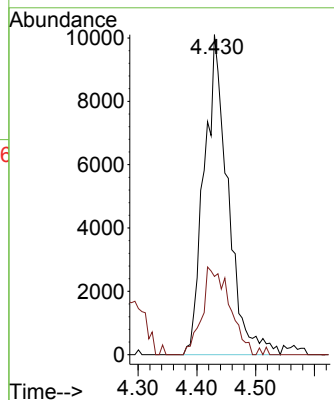


#16
Acetone
Concen: 43.598 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Instrument :
MSVOA_N
ClientSampleId :

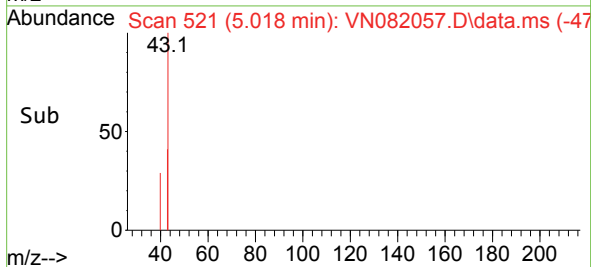
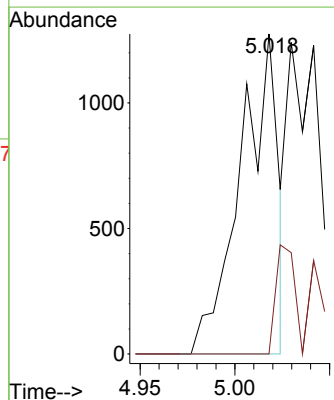
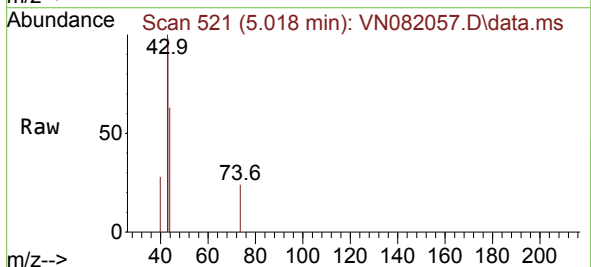


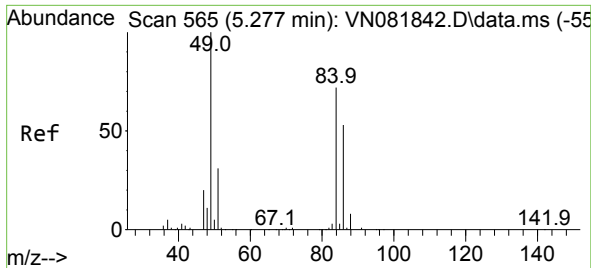
Tgt Ion: 43 Resp: 28519
Ion Ratio Lower Upper
43 100
58 24.4 25.2 37.8#



#18
Methyl Acetate
Concen: 0.863 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

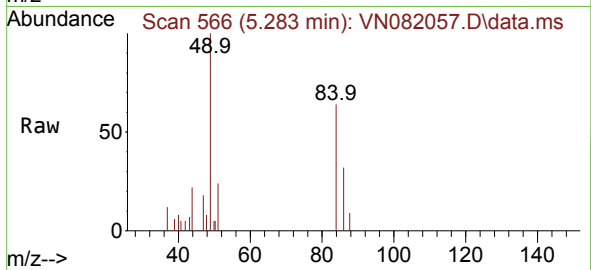
Tgt Ion: 43 Resp: 1752
Ion Ratio Lower Upper
43 100
74 16.9 22.2 33.2#



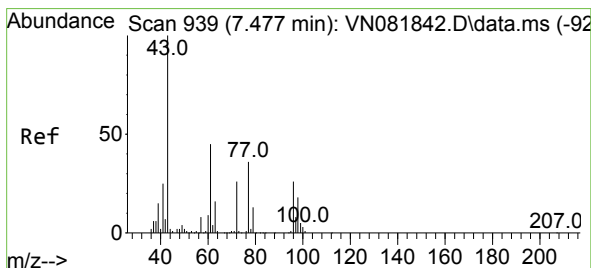
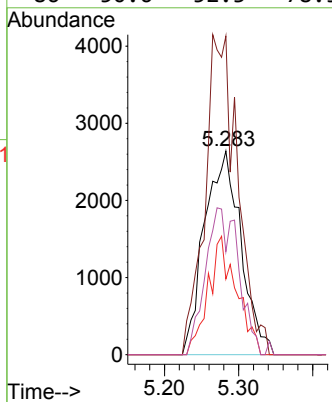
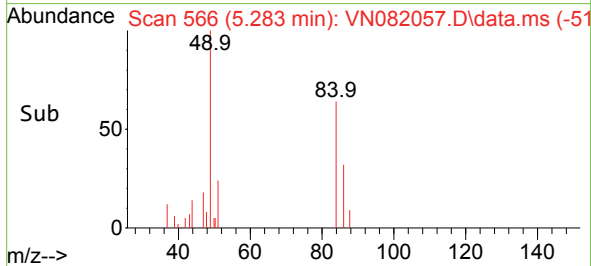


#20
Methylene Chloride
Concen: 5.263 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Instrument :
MSVOA_N
ClientSampleId :

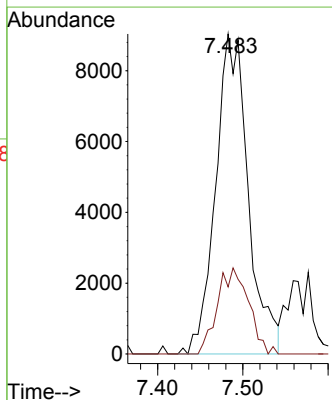
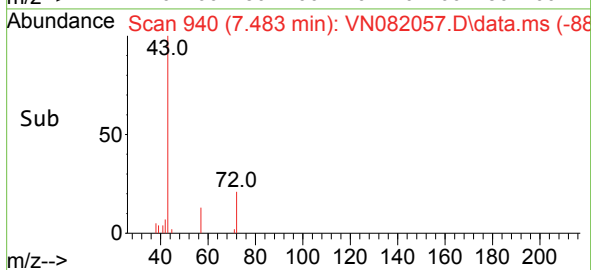
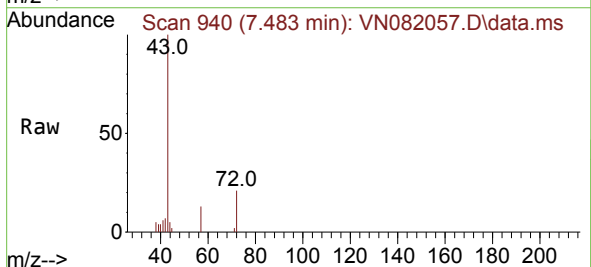


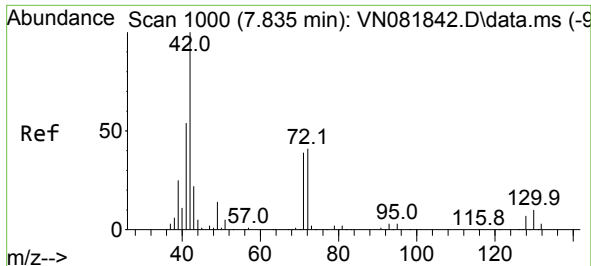
Tgt Ion:	84	Resp:	9042
Ion	Ratio	Lower	Upper
84	100		
49	156.4	84.9	127.3#
51	37.1	27.0	40.6
86	50.6	52.3	78.5#



#25
2-Butanone
Concen: 21.094 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Tgt Ion:	43	Resp:	23999
Ion	Ratio	Lower	Upper
43	100		
72	21.0	25.3	37.9#





#29

Tetrahydrofuran

Concen: 1.772 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.006 min

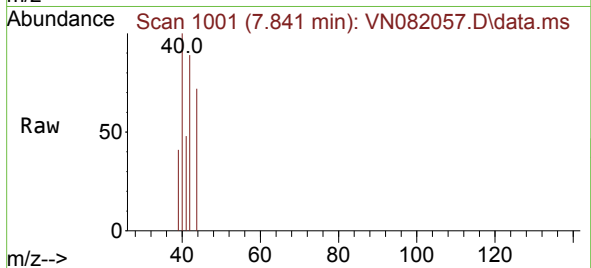
Lab File: VN082057.D

Acq: 09 May 2024 17:46

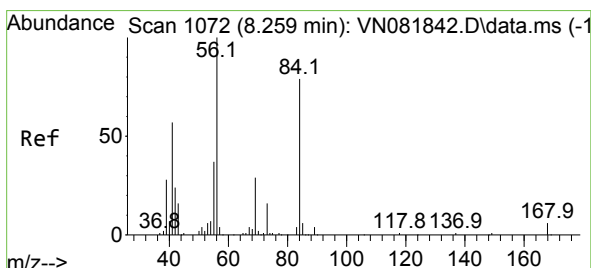
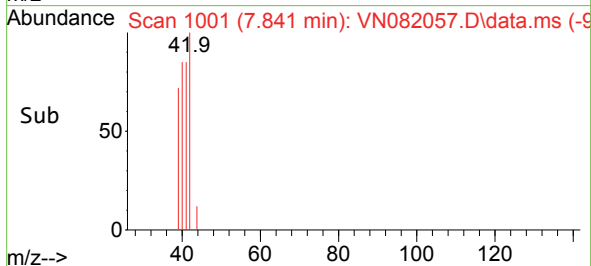
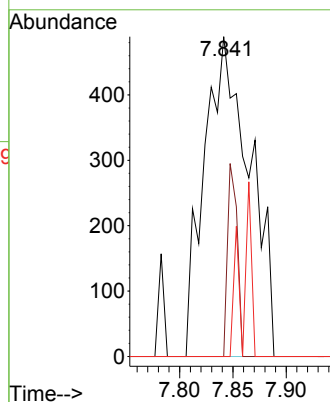
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1446
Ion	Ratio	Lower	Upper
42	100		
72	12.8	39.3	58.9#
71	4.8	37.4	56.0#



#31

Cyclohexane

Concen: 2.718 ug/l

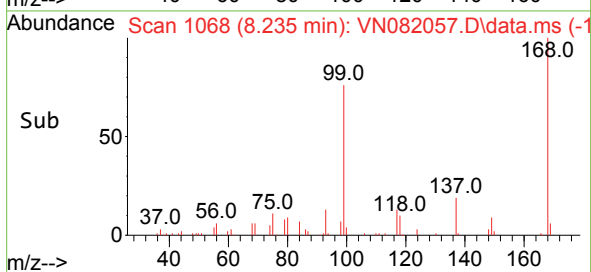
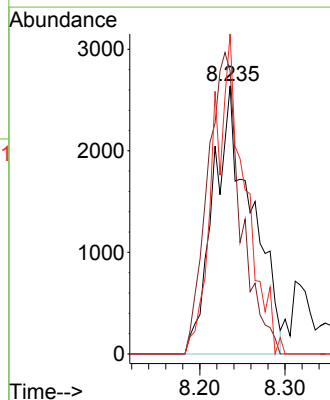
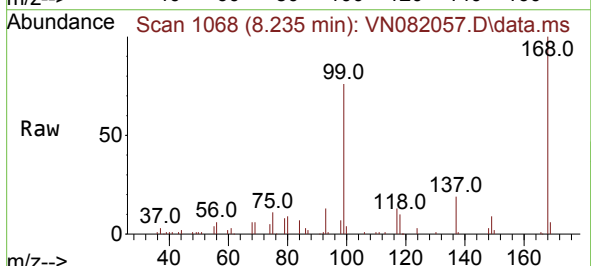
RT: 8.235 min Scan# 1068

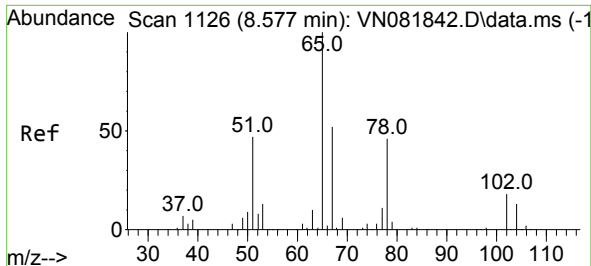
Delta R.T. -0.023 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

Tgt Ion:	56	Resp:	8207
Ion	Ratio	Lower	Upper
56	100		
69	105.5	24.4	36.6#
84	119.3	77.0	115.4#





#33

1,2-Dichloroethane-d4

Concen: 54.816 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

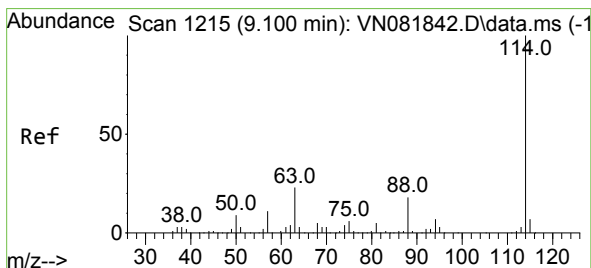
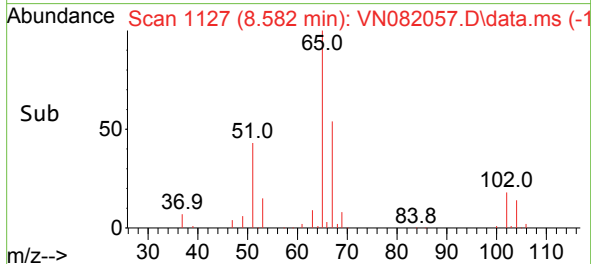
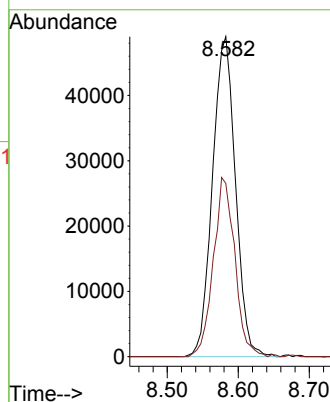
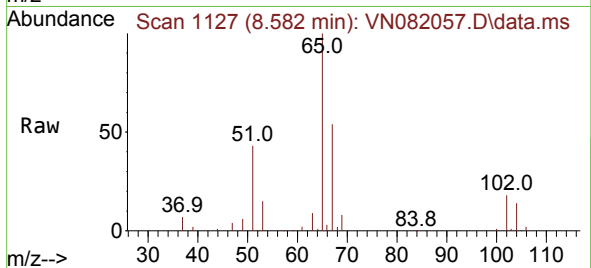
ClientSampleId :

Tgt Ion: 65 Resp: 109880

Ion Ratio Lower Upper

65 100

67 52.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

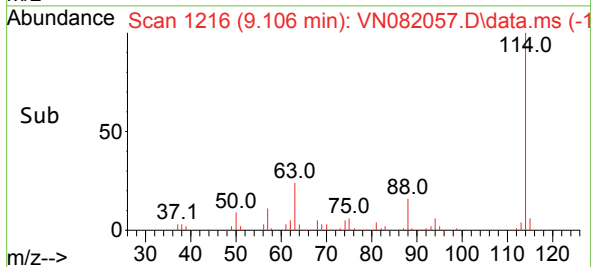
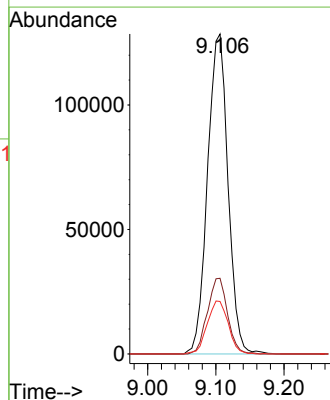
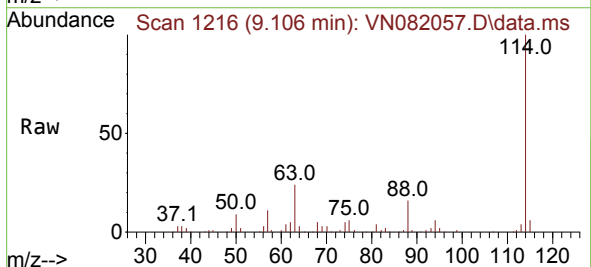
Tgt Ion: 114 Resp: 268830

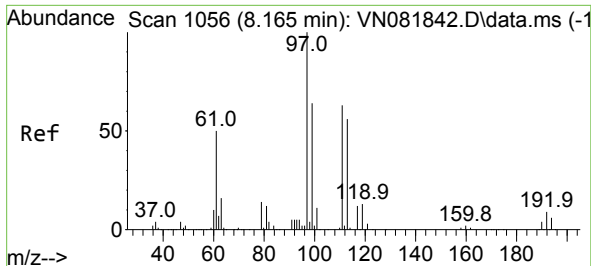
Ion Ratio Lower Upper

114 100

63 23.7 0.0 41.0

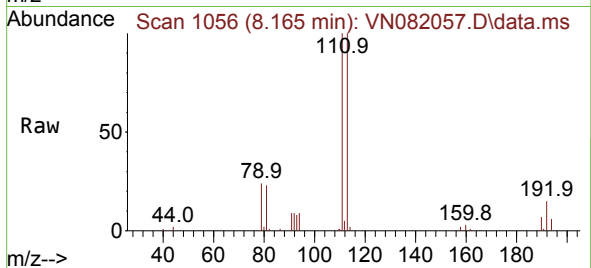
88 16.4 0.0 31.4



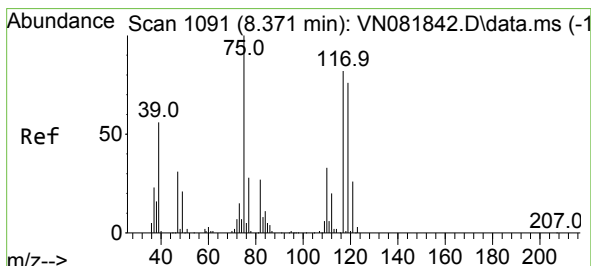
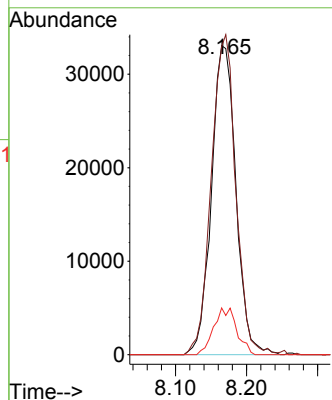
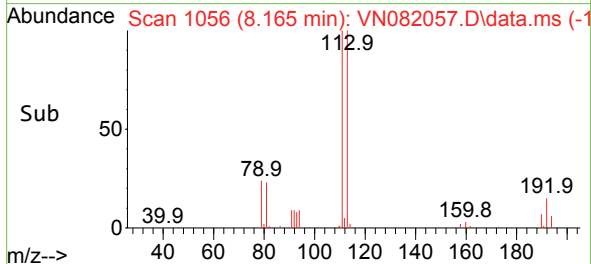


#35
Dibromofluoromethane
Concen: 48.818 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

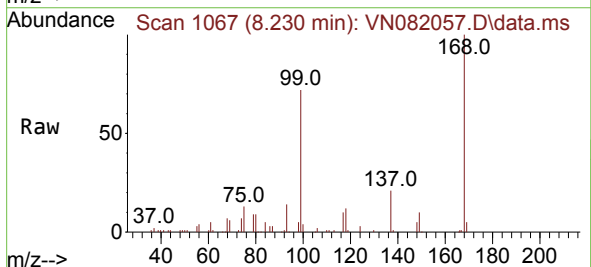
Instrument :
MSVOA_N
ClientSampleId :



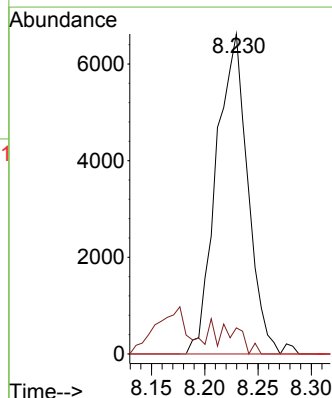
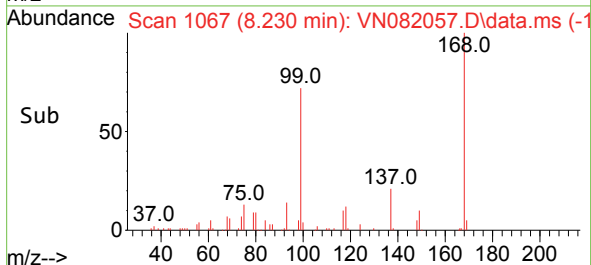
Tgt Ion:113 Resp: 79016
Ion Ratio Lower Upper
113 100
111 103.4 83.4 125.2
192 14.2 14.0 21.0

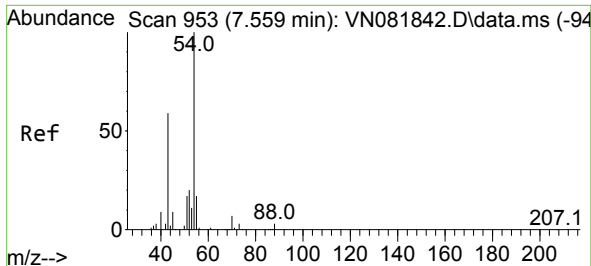


#36
1,1-Dichloropropene
Concen: 5.160 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46



Tgt Ion: 75 Resp: 13588
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.267 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.018 min

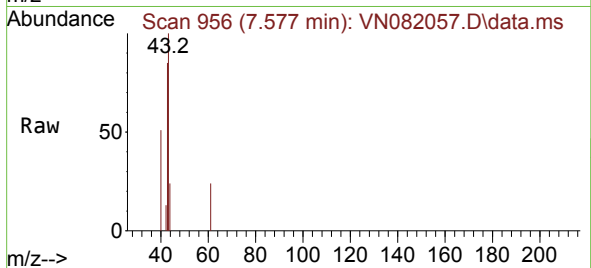
Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

ClientSampleId :



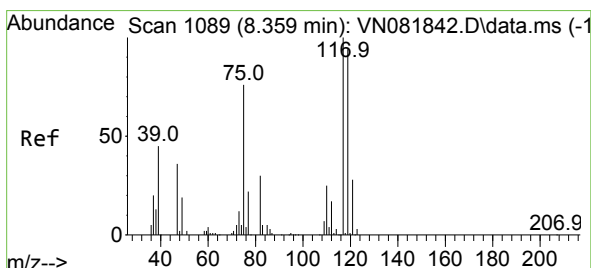
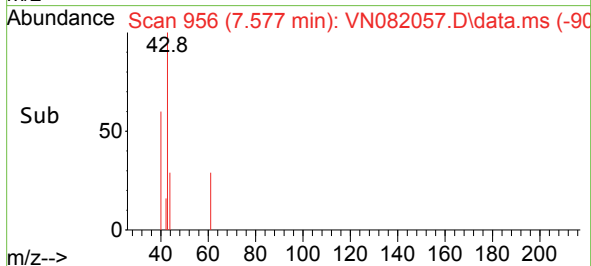
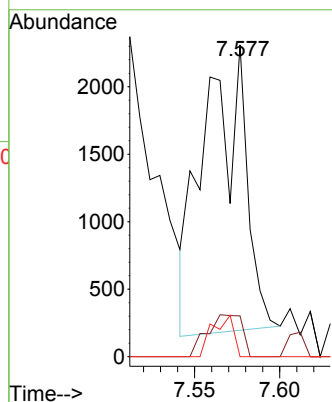
Tgt Ion: 43 Resp: 3608

Ion Ratio Lower Upper

43 100

61 12.3 11.3 16.9

70 7.3 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 5.721 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

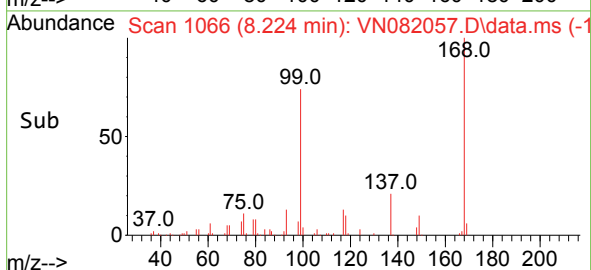
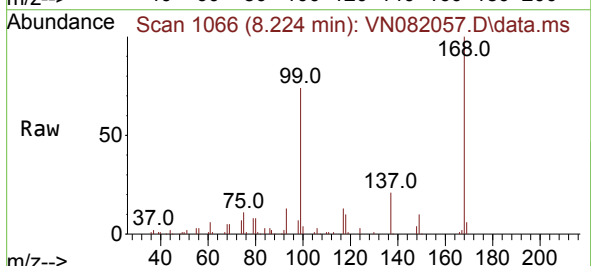
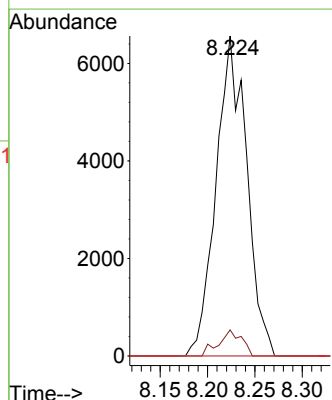
Tgt Ion: 117 Resp: 14723

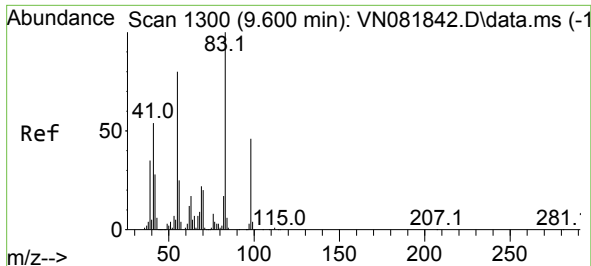
Ion Ratio Lower Upper

117 100

119 8.2 76.5 114.7#

121 0.0 23.9 35.9#





#39

Methylcyclohexane

Concen: 1.767 ug/l

RT: 9.600 min Scan# 1145

Delta R.T. 0.000 min

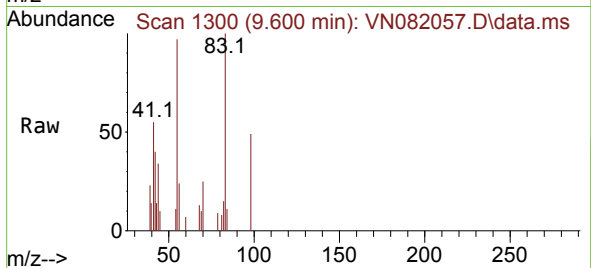
Lab File: VN082057.D

Acq: 09 May 2024 17:46

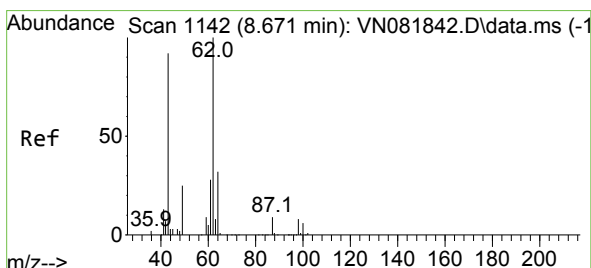
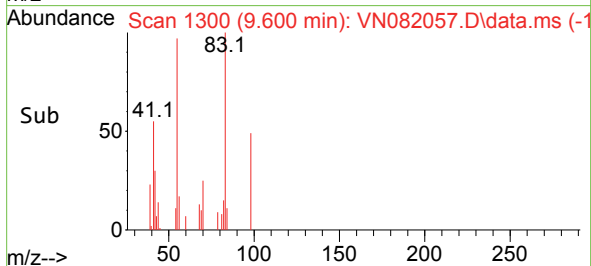
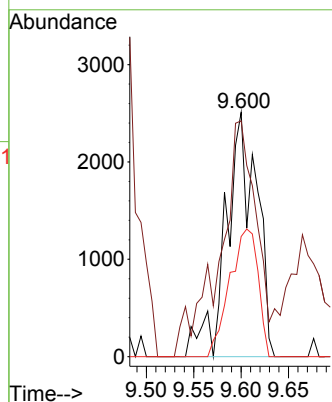
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 83	Resp: 5651
Ion Ratio	Lower Upper
83	100
55	84.4 53.0 79.6#
98	49.2 37.1 55.7



#42

1,2-Dichloroethane

Concen: 0.279 ug/l

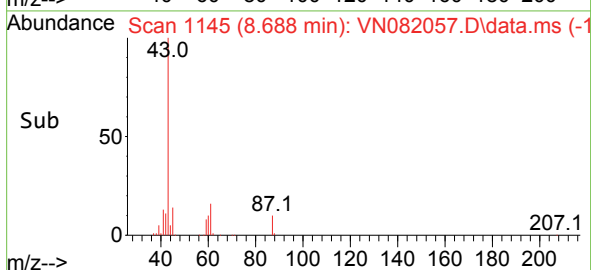
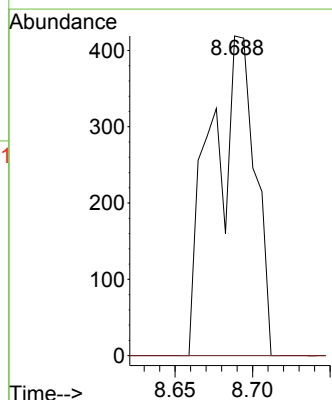
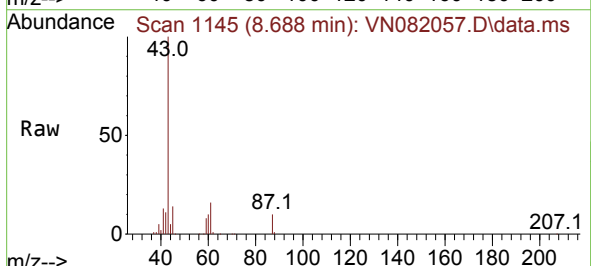
RT: 8.688 min Scan# 1145

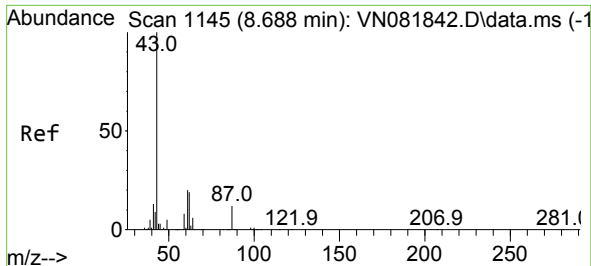
Delta R.T. 0.018 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

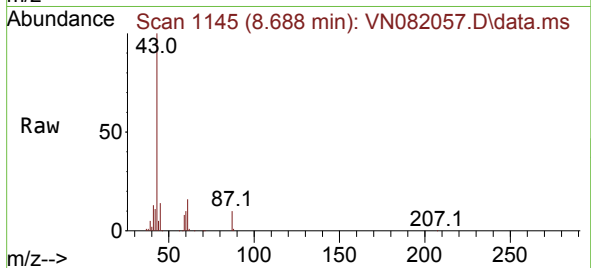
Tgt Ion: 62	Resp: 820
Ion Ratio	Lower Upper
62	100
98	0.0 0.0 19.6



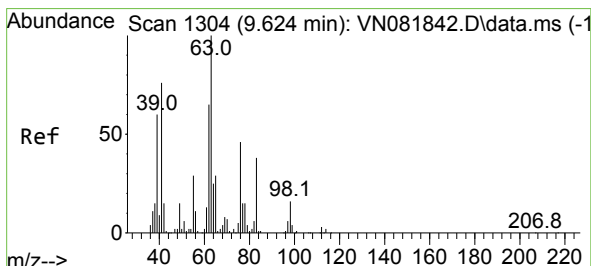
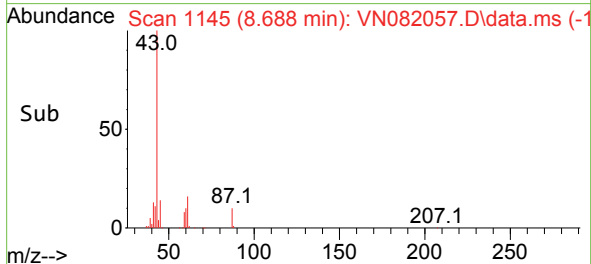
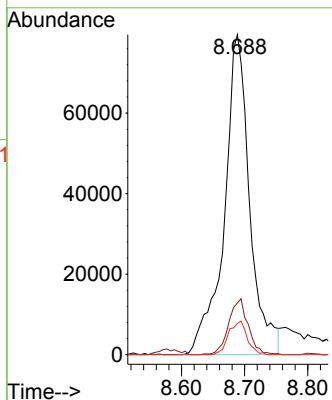


#43
Isopropyl Acetate
Concen: 41.651 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Instrument :
MSVOA_N
ClientSampleId :

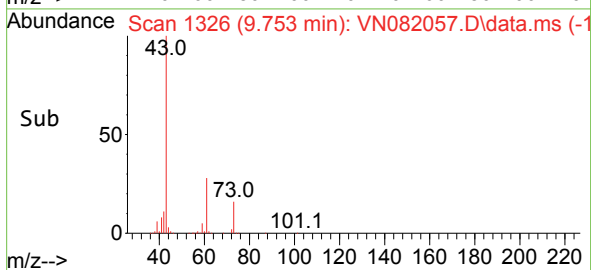
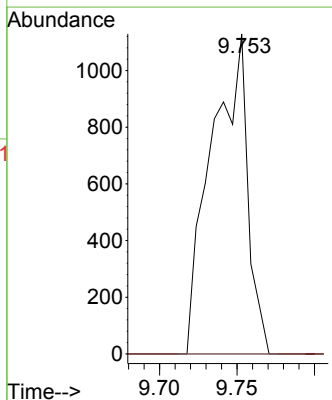
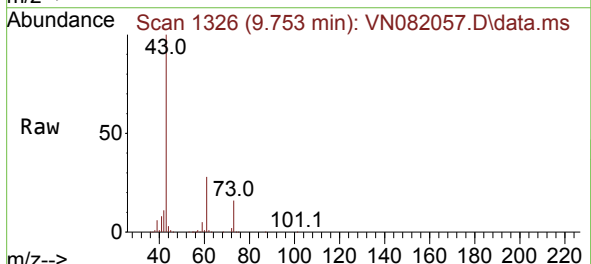


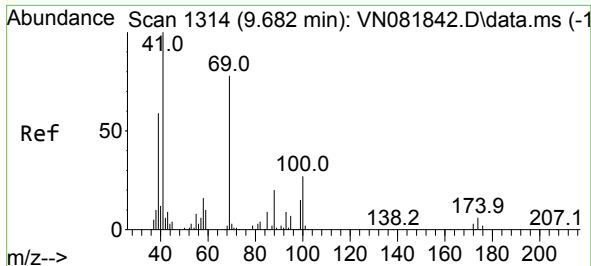
Tgt Ion: 43 Resp: 222974
Ion Ratio Lower Upper
43 100
61 13.4 22.8 34.2#
87 7.6 12.0 18.0#



#45
1,2-Dichloropropane
Concen: 0.885 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Tgt Ion: 63 Resp: 1831
Ion Ratio Lower Upper
63 100
65 0.0 24.1 36.1#

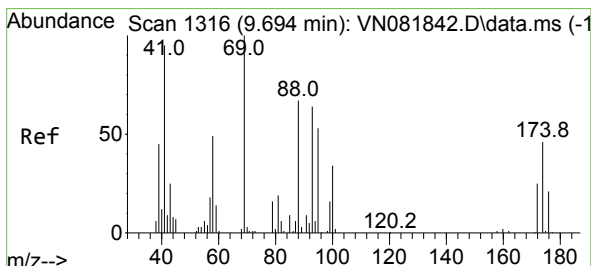
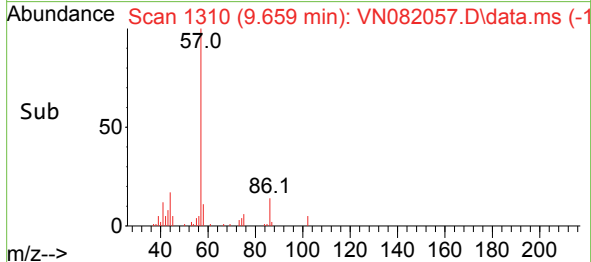
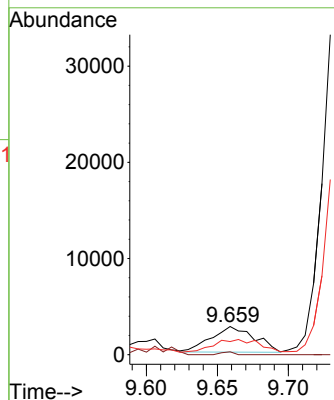
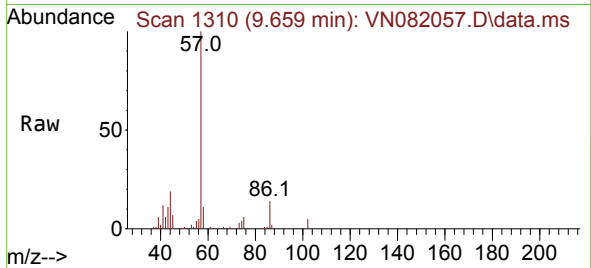




#48
Methyl methacrylate
Concen: 2.215 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

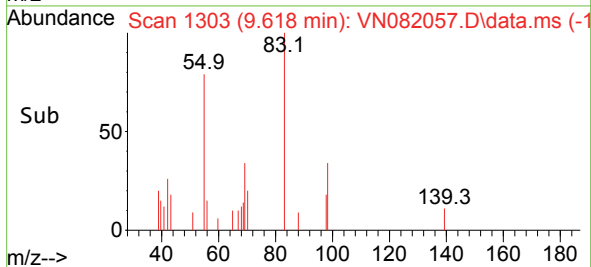
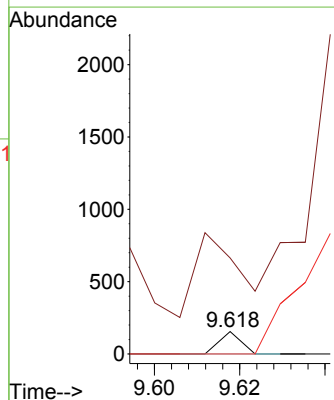
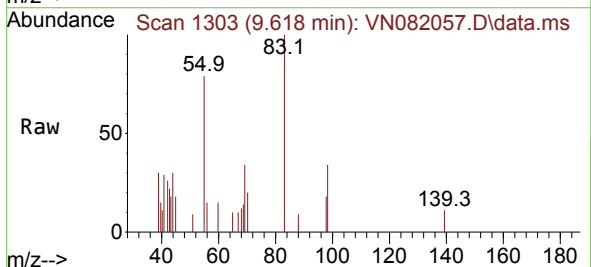
Instrument :
MSVOA_N
ClientSampleId :

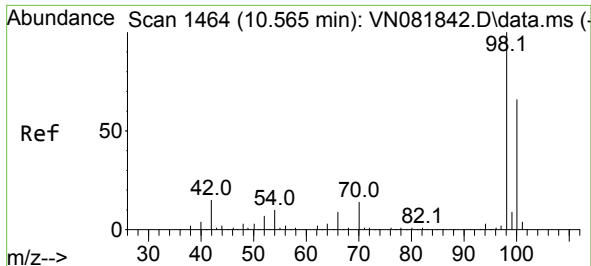
Tgt Ion: 41 Resp: 5661
Ion Ratio Lower Upper
41 100
69 3.1 77.9 116.9#
39 70.9 50.9 76.3



#49
1,4-Dioxane
Concen: 1.416 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.076 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 19.0 28.6#
58 0.0 50.6 76.0#

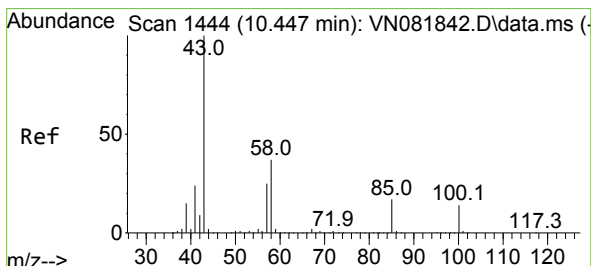
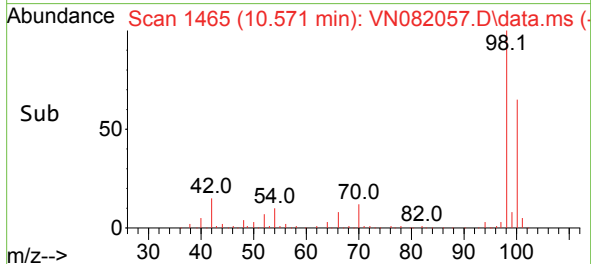
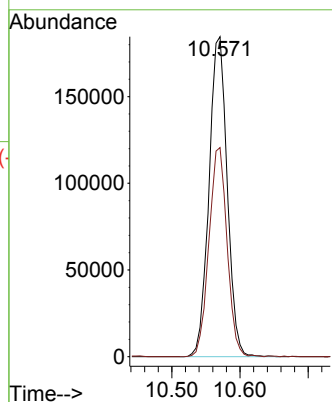
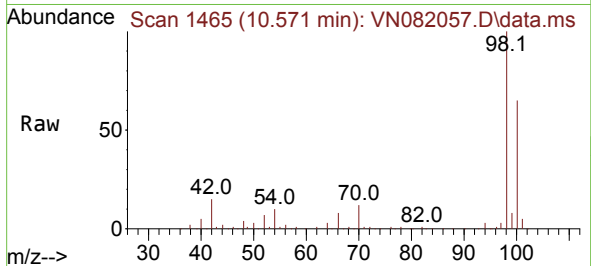




#50
Toluene-d8
Concen: 53.922 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

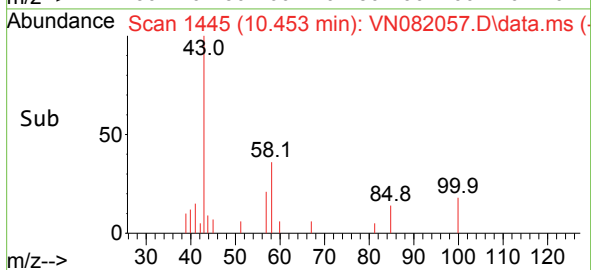
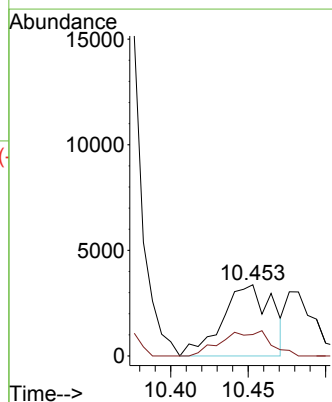
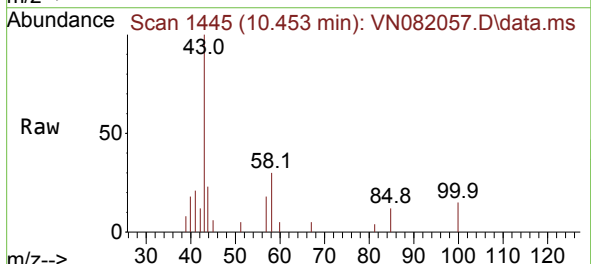
Instrument :
MSVOA_N
ClientSampleId :

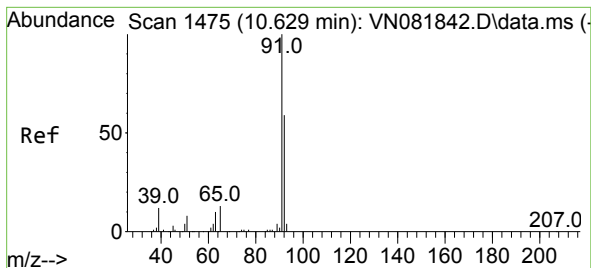
Tgt Ion: 98 Resp: 342776
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.483 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Tgt Ion: 43 Resp: 7482
Ion Ratio Lower Upper
43 100
58 34.5 33.2 49.8





#52

Toluene

Concen: 0.514 ug/l

RT: 10.624 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

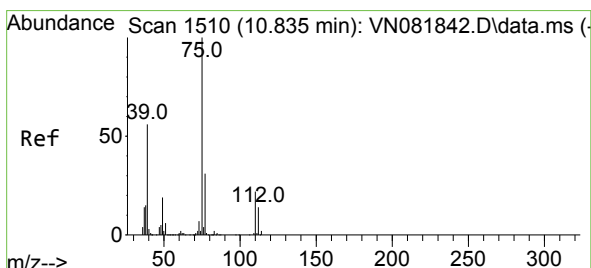
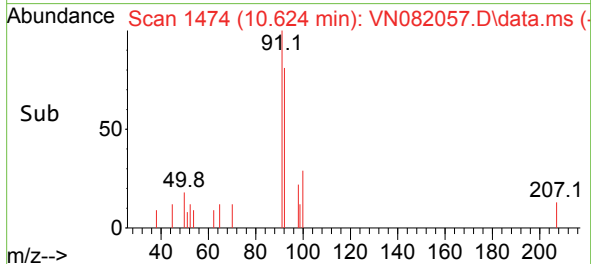
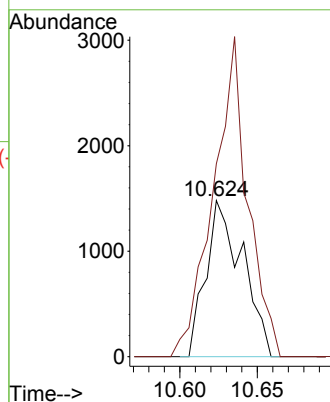
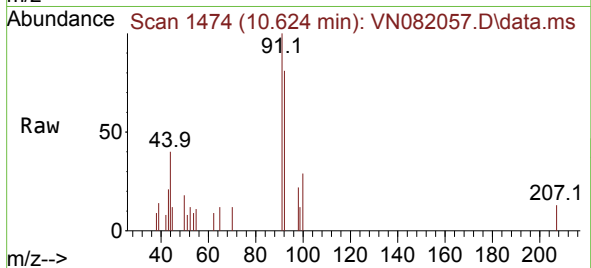
ClientSampleId :

Tgt Ion: 92 Resp: 2433

Ion Ratio Lower Upper

92 100

91 192.1 136.7 205.1



#53

t-1,3-Dichloropropene

Concen: 0.264 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.100 min

Lab File: VN082057.D

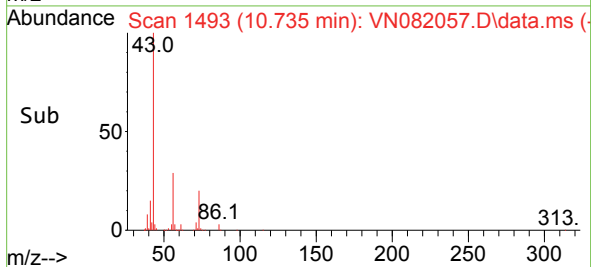
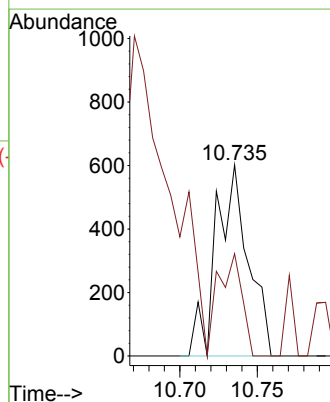
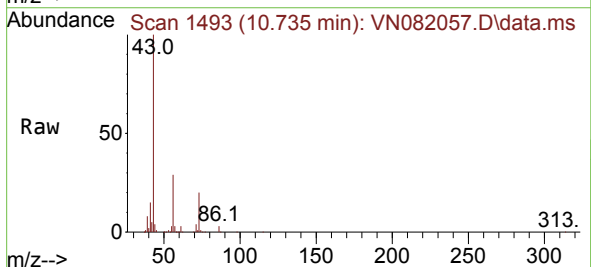
Acq: 09 May 2024 17:46

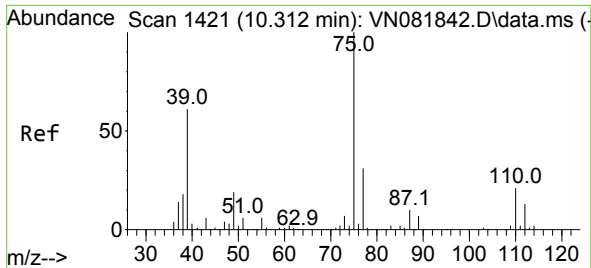
Tgt Ion: 75 Resp: 866

Ion Ratio Lower Upper

75 100

77 53.5 25.4 38.0#

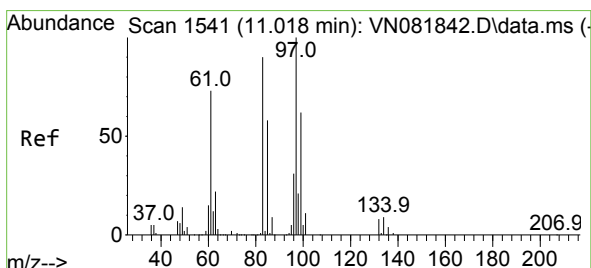
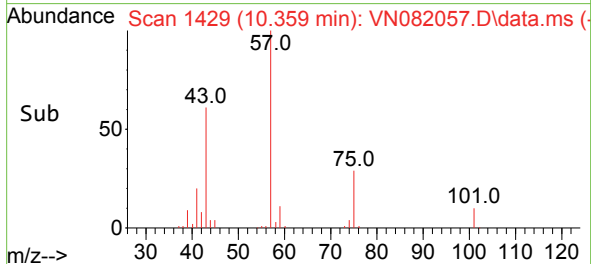
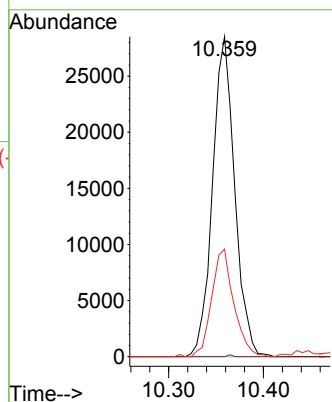
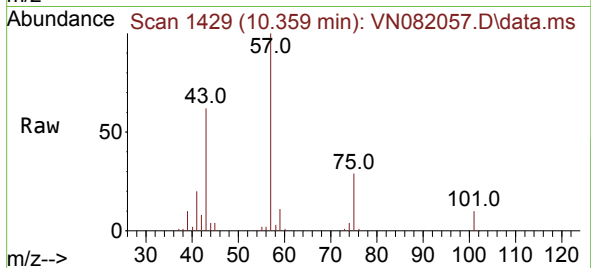




#54
 cis-1,3-Dichloropropene
 Concen: 13.714 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN082057.D
 Acq: 09 May 2024 17:46

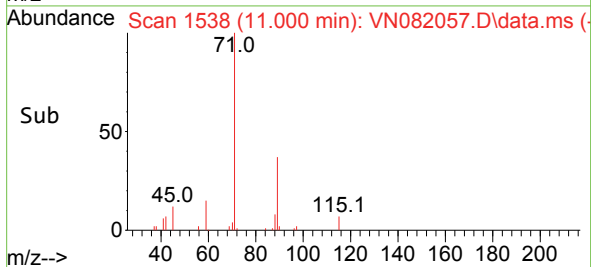
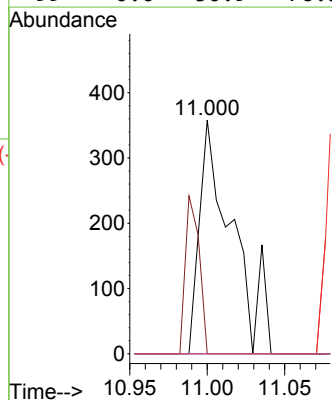
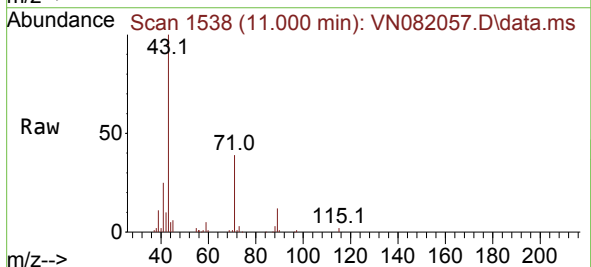
Instrument :
 MSVOA_N
 ClientSampleId :

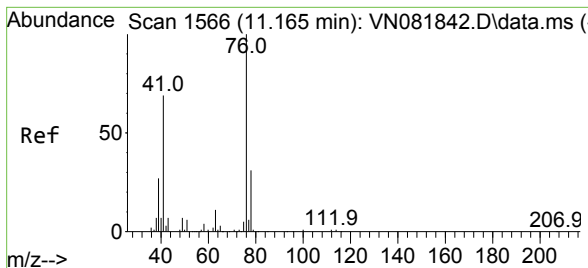
Tgt Ion: 75 Resp: 46376
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 32.9 34.8 52.2#



#55
 1,1,2-Trichloroethane
 Concen: 0.284 ug/l
 RT: 11.000 min Scan# 1538
 Delta R.T. -0.018 min
 Lab File: VN082057.D
 Acq: 09 May 2024 17:46

Tgt Ion: 97 Resp: 528
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.4 105.6#
 85 0.0 45.6 68.4#
 99 0.0 50.9 76.3#

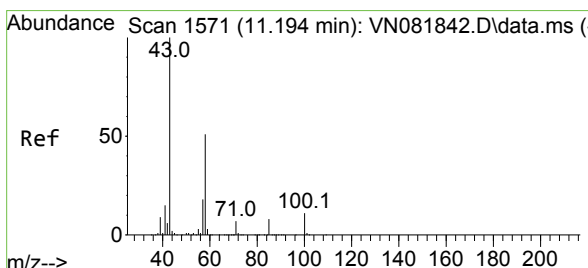
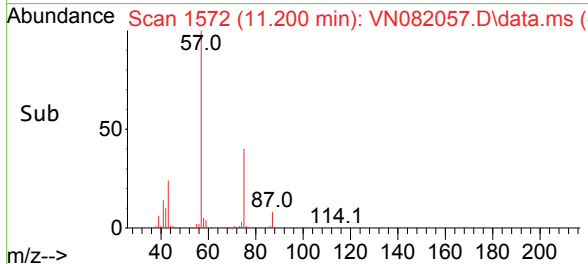
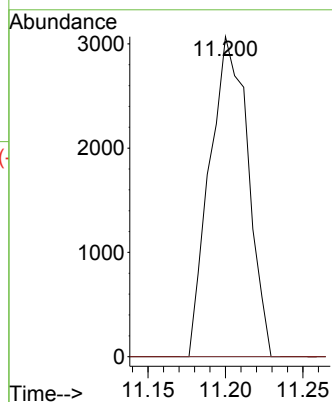
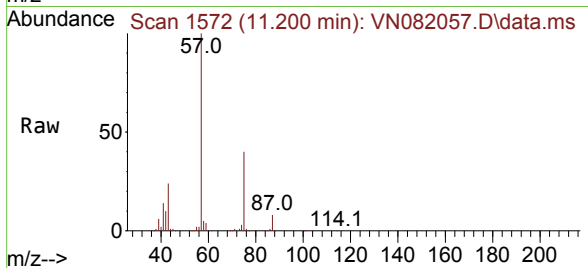




#57
1,3-Dichloropropane
Concen: 1.591 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

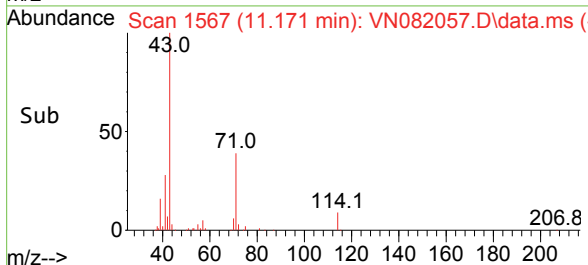
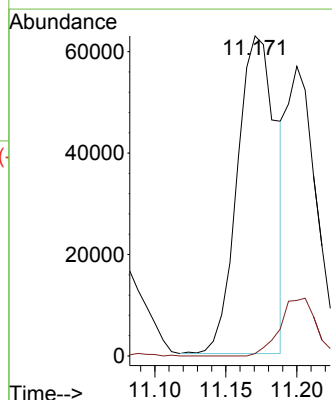
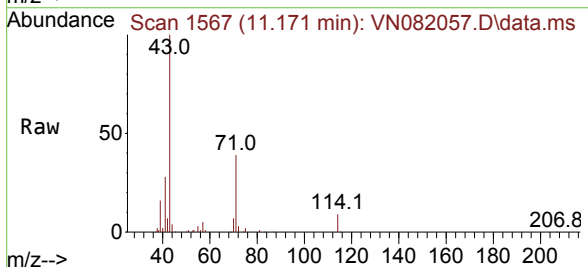
Instrument :
MSVOA_N
ClientSampleId :

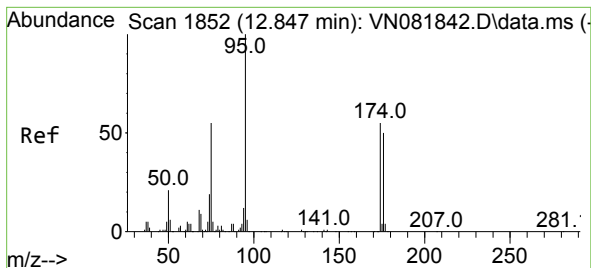
Tgt Ion: 76 Resp: 5265
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#59
2-Hexanone
Concen: 53.420 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

Tgt Ion: 43 Resp: 119808
Ion Ratio Lower Upper
43 100
58 0.0 28.3 84.9#

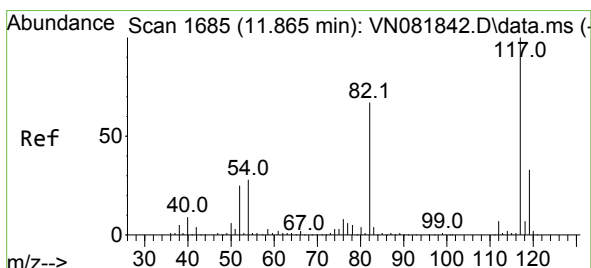
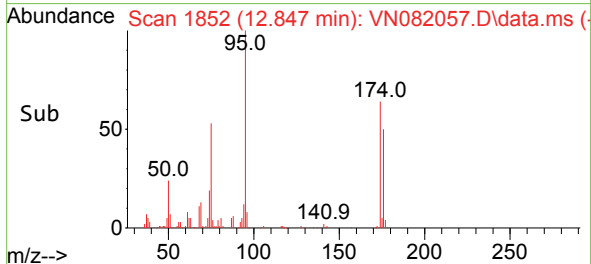
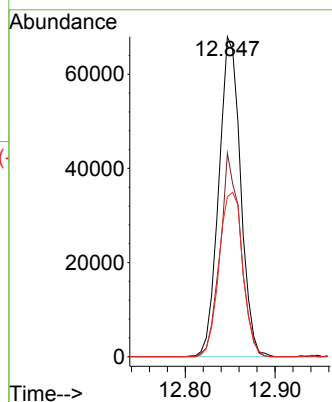
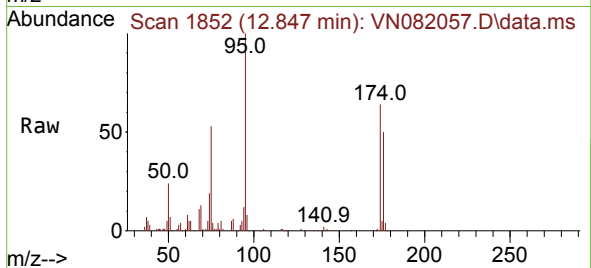




#62
4-Bromofluorobenzene
Concen: 45.550 ug/l
RT: 12.847 min Scan# 114463
Delta R.T. 0.000 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

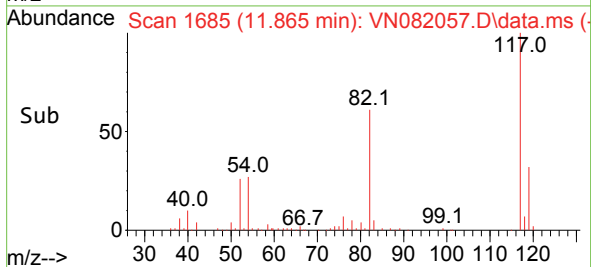
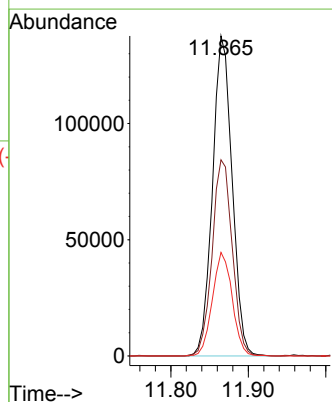
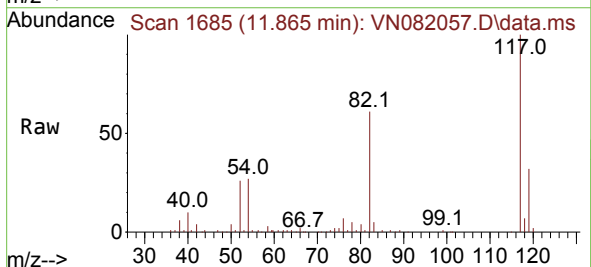
Instrument :
MSVOA_N
ClientSampleId :

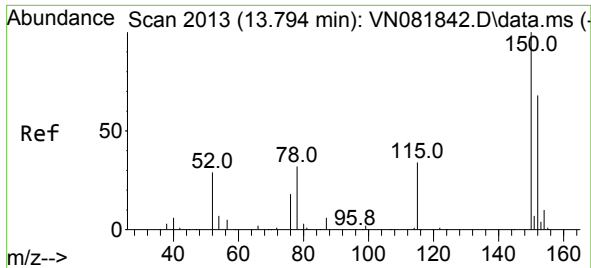
Tgt Ion: 95 Resp: 114463
Ion Ratio Lower Upper
95 100
174 60.1 0.0 160.6
176 56.0 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN082057.D
Acq: 09 May 2024 17:46

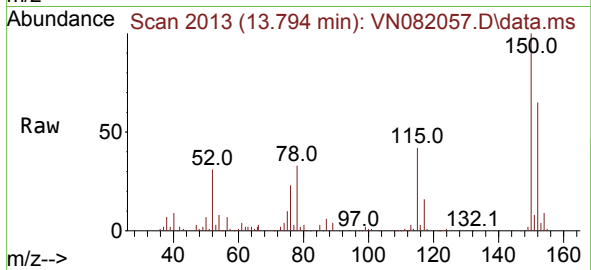
Tgt Ion: 117 Resp: 241921
Ion Ratio Lower Upper
117 100
82 61.3 44.6 66.8
119 32.3 25.9 38.9



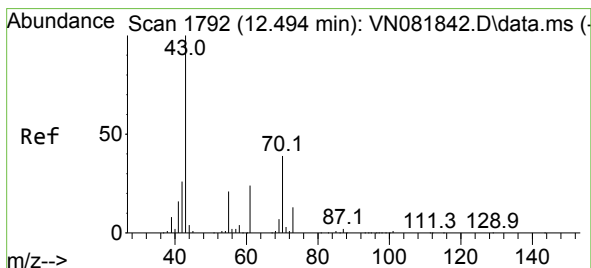
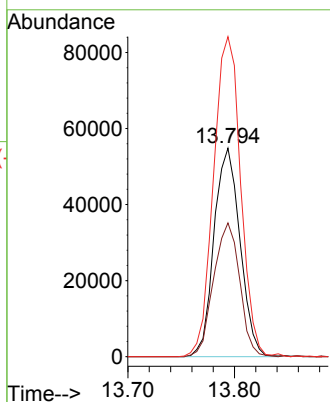
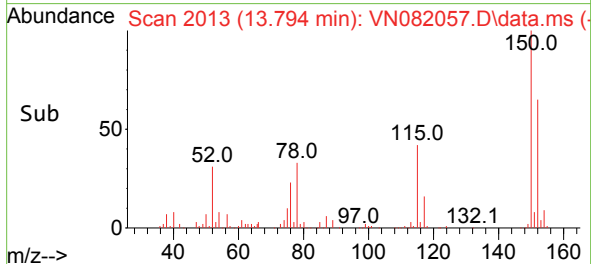


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN082057.D
 Acq: 09 May 2024 17:46

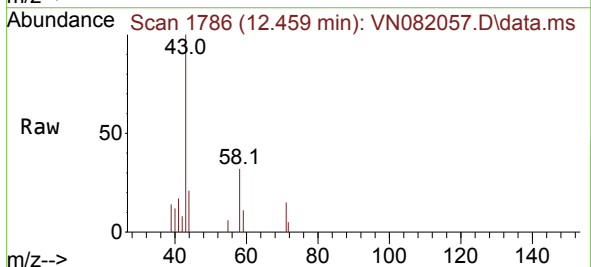
Instrument :
 MSVOA_N
 ClientSampleId :



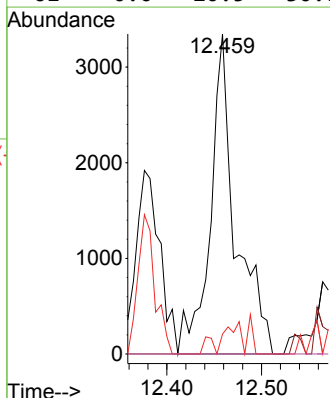
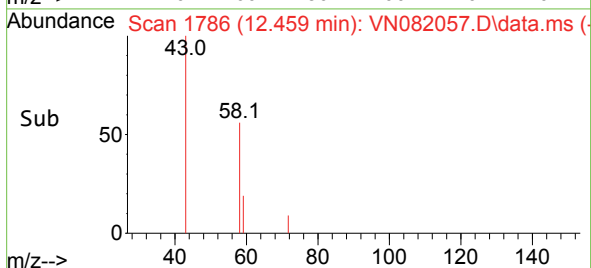
Tgt Ion:152 Resp: 92953
 Ion Ratio Lower Upper
 152 100
 115 64.2 30.4 91.3
 150 160.0 0.0 353.2

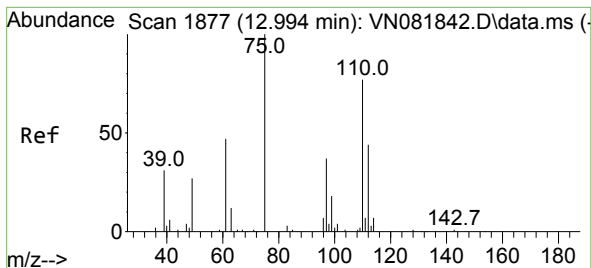


#74
 N-ethyl acetate
 Concen: 1.340 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN082057.D
 Acq: 09 May 2024 17:46



Tgt Ion: 43 Resp: 6165
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 6.0 21.3 31.9#
 61 0.0 20.5 30.7#





#76

1,2,3-Trichloropropane

Concen: 26.873 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

Instrument :

MSVOA_N

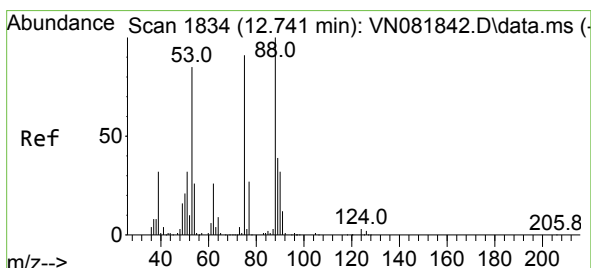
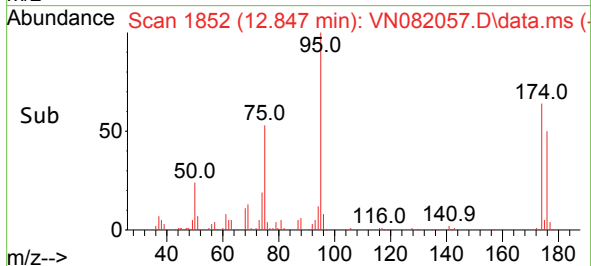
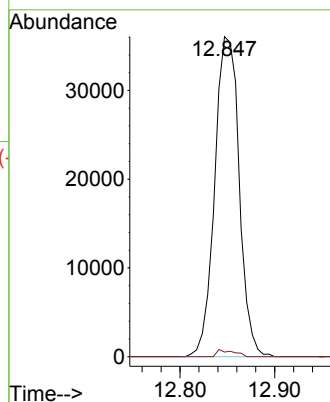
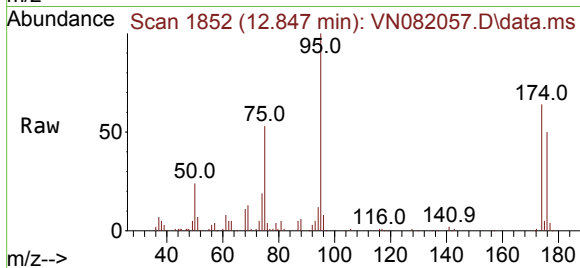
ClientSampleId :

Tgt Ion: 75 Resp: 64766

Ion Ratio Lower Upper

75 100

77 1.5 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.066 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN082057.D

Acq: 09 May 2024 17:46

Tgt Ion: 75 Resp: 64766

Ion Ratio Lower Upper

75 100

53 0.0 72.9 109.3#

89 0.0 39.1 58.7#

