

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061924\
 Data File : VN082635.D
 Acq On : 19 Jun 2024 12:44
 Operator : JC\MD
 Sample : PB161542ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 02:59:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	138256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	258732	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	266590	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	108848	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	123722	55.803	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.600%	
35) Dibromofluoromethane	8.171	113	91657	52.220	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.440%	
50) Toluene-d8	10.570	98	349242	52.616	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.240%	
62) 4-Bromofluorobenzene	12.853	95	113649	49.663	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	= 99.320%	

Target Compounds				Qvalue		
3) Chloromethane	2.359	50	674	0.291	ug/l #	43
5) Bromomethane	2.977	94	808	0.570	ug/l #	66
11) Tert butyl alcohol	5.518	59	516	1.422	ug/l #	71
13) Acrolein	4.183	56	78	0.211	ug/l	91
16) Acetone	4.436	43	60409	59.910	ug/l	98
18) Methyl Acetate	5.030	43	2002	0.812	ug/l #	76
20) Methylene Chloride	5.271	84	11465	6.467	ug/l	98
25) 2-Butanone	7.494	43	18088	12.621	ug/l	99
29) Tetrahydrofuran	7.847	42	2137	2.436	ug/l #	79
31) Cyclohexane	8.229	56	4330	1.353	ug/l #	45
36) 1,1-Dichloropropene	8.224	75	12957	4.938	ug/l #	52
37) Ethyl Acetate	7.577	43	4870	1.457	ug/l #	88
38) Carbon Tetrachloride	8.229	117	14661	4.958	ug/l #	18
41) Methacrylonitrile	7.847	41	1431	0.838	ug/l #	41
42) 1,2-Dichloroethane	8.694	62	1055	0.342	ug/l #	78
43) Isopropyl Acetate	8.694	43	224540	35.948	ug/l #	85
45) 1,2-Dichloropropane	9.747	63	1698	0.814	ug/l #	44
48) Methyl methacrylate	9.665	41	5266	2.045	ug/l #	53
49) 1,4-Dioxane	9.694	88	53	1.316	ug/l #	21
51) 4-Methyl-2-Pentanone	10.453	43	16829	5.253	ug/l #	78
53) t-1,3-Dichloropropene	10.723	75	831	0.270	ug/l	100
54) cis-1,3-Dichloropropene	10.365	75	47645	14.944	ug/l #	65
56) Ethyl methacrylate	10.988	69	2300	0.781	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6820	2.074	ug/l #	43
59) 2-Hexanone	11.206	43	92193	37.861	ug/l #	62
74) N-amyl acetate	12.459	43	1627	0.369	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	66140	24.844	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	66140	59.436	ug/l #	6

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

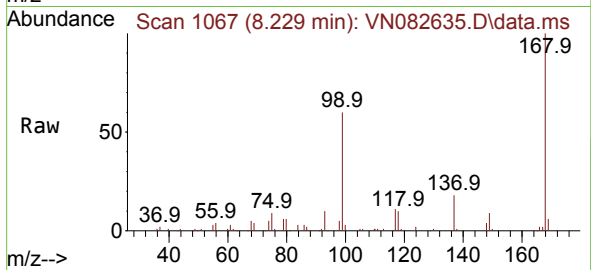
Quant Time: Jun 20 02:59:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 18 04:52:44 2024
Response via : Initial Calibration



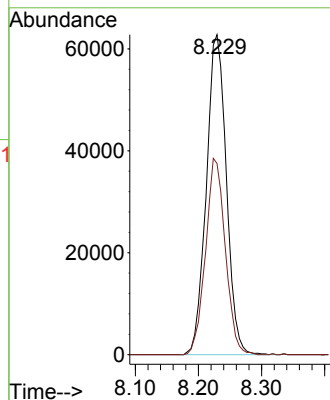
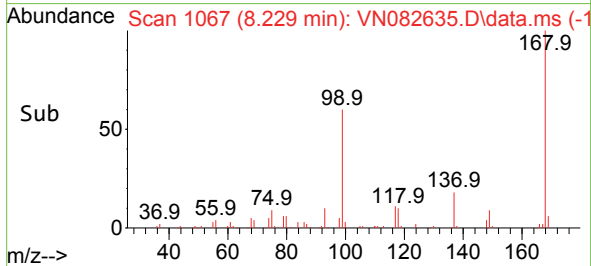


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. 0.000 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Instrument :
MSVOA_N
ClientSampleId :

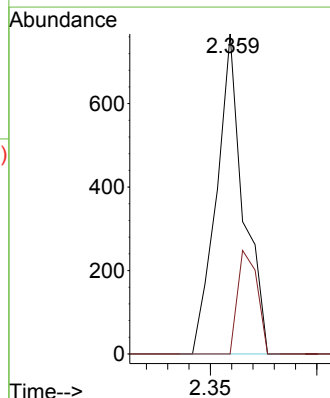
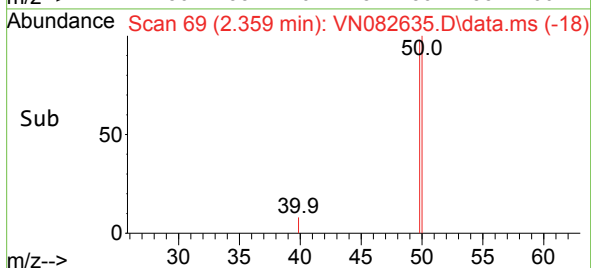
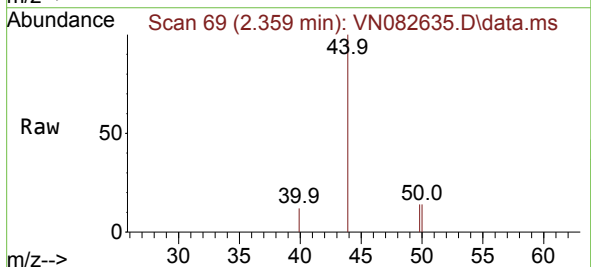


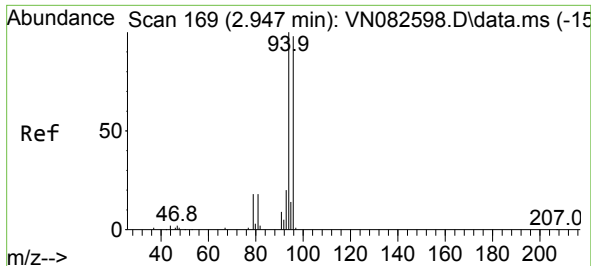
Tgt Ion:168 Resp: 138256
Ion Ratio Lower Upper
168 100
99 59.8 48.2 72.4



#3
Chloromethane
Concen: 0.291 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 50 Resp: 674
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

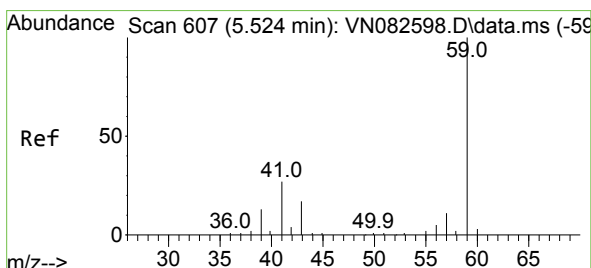
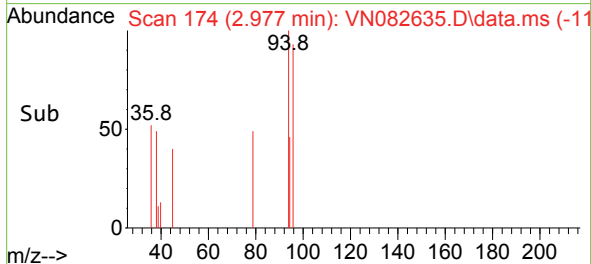
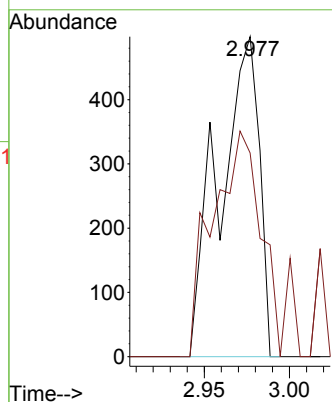
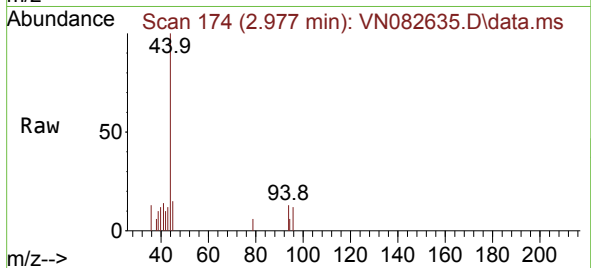




#5
Bromomethane
Concen: 0.570 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

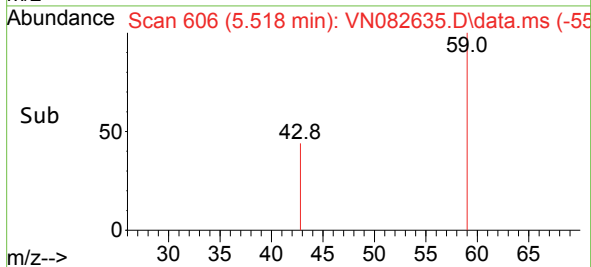
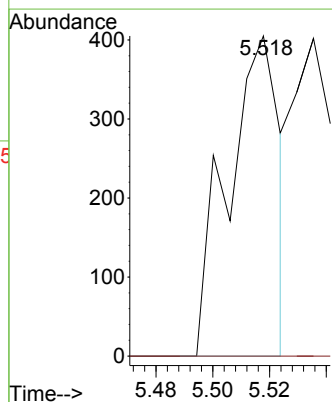
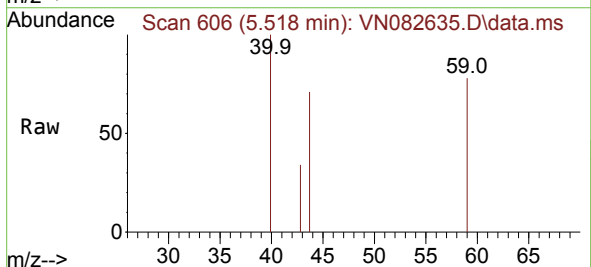
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MSVOA_N
ClientSampleId :

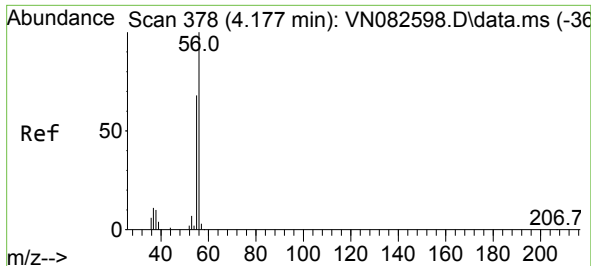
Tgt Ion: 94 Resp: 808
Ion Ratio Lower Upper
94 100
96 63.7 78.0 117.0#



#11
Tert butyl alcohol
Concen: 1.422 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 59 Resp: 516
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#





#13

Acrolein

Concen: 0.211 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

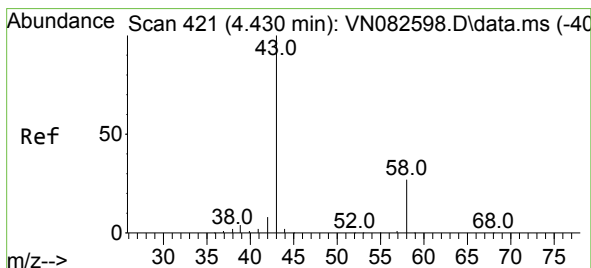
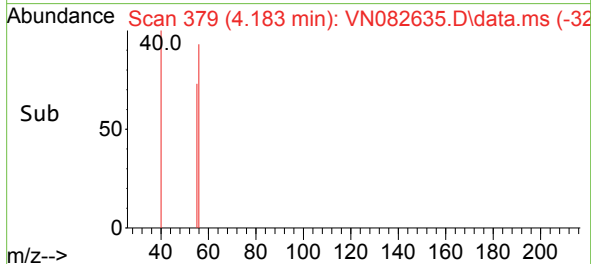
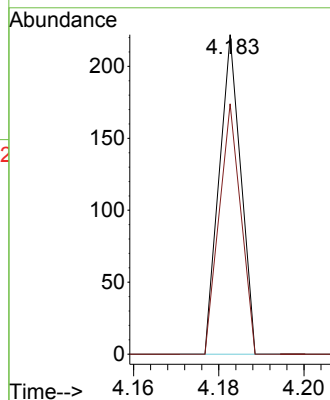
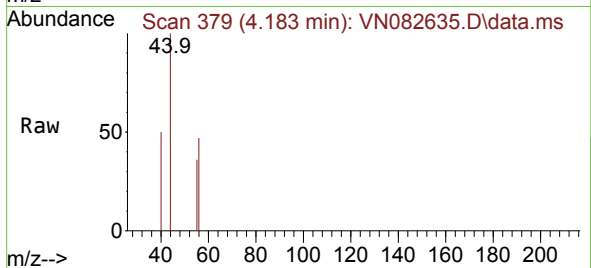
ClientSampleId :

Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

56 100

55 78.2 56.4 84.6



#16

Acetone

Concen: 59.910 ug/l

RT: 4.436 min Scan# 422

Delta R.T. 0.006 min

Lab File: VN082635.D

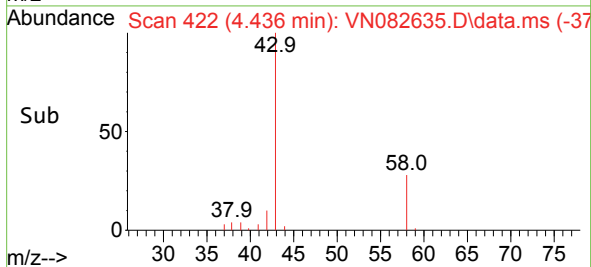
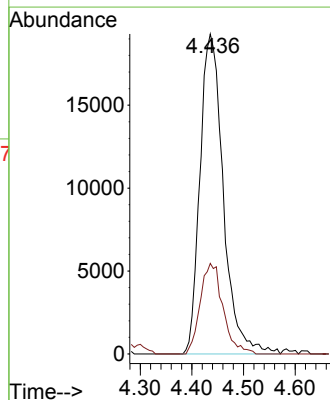
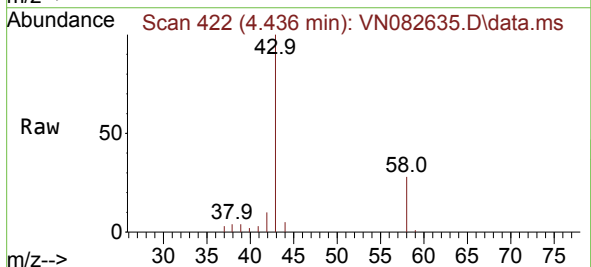
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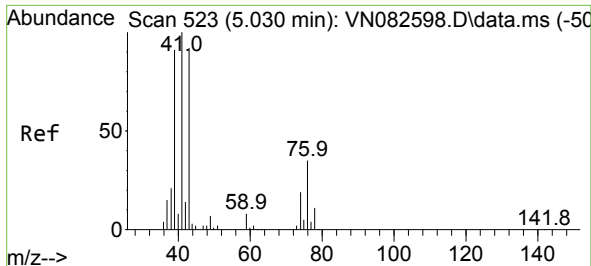
Tgt Ion: 43 Resp: 60409

Ion Ratio Lower Upper

43 100

58 28.3 21.8 32.6

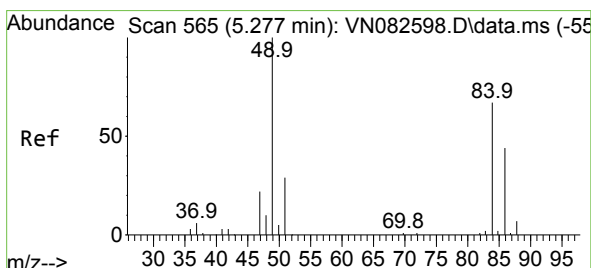
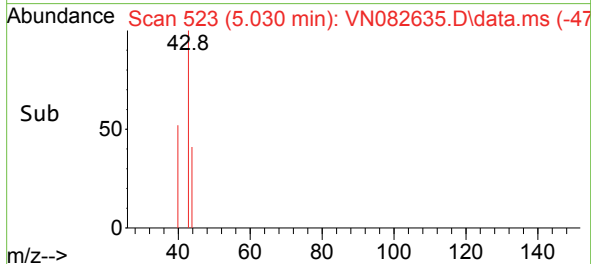
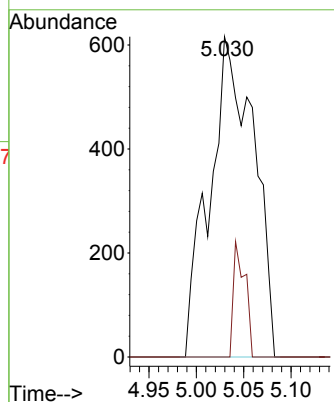
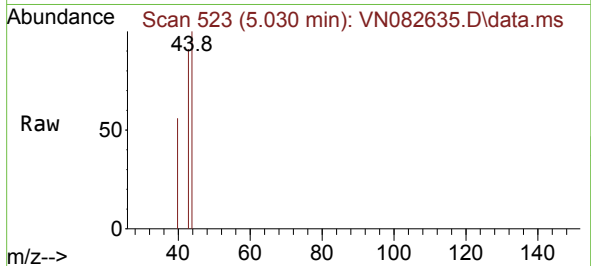




#18
Methyl Acetate
Concen: 0.812 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

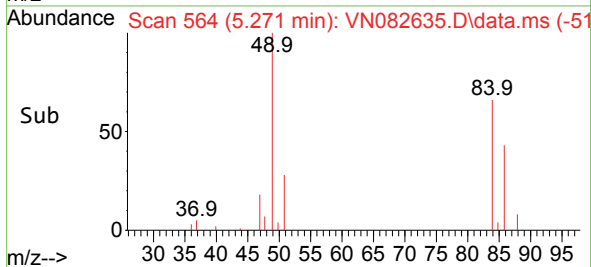
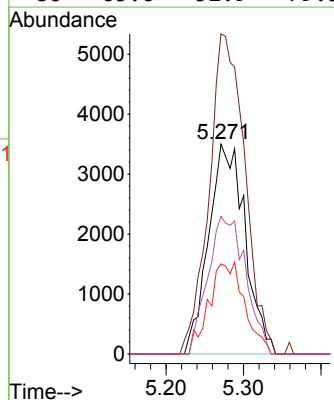
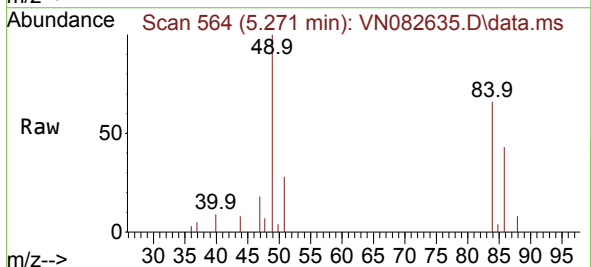
Instrument :
MSVOA_N
ClientSampleId :

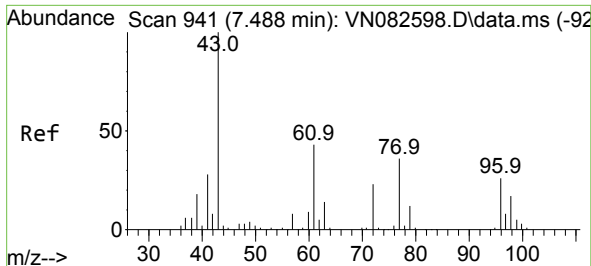
Tgt Ion: 43 Resp: 2002
Ion Ratio Lower Upper
43 100
74 9.4 16.3 24.5#



#20
Methylene Chloride
Concen: 6.467 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 84 Resp: 11465
Ion Ratio Lower Upper
84 100
49 152.5 119.6 179.4
51 42.9 34.8 52.2
86 65.6 52.9 79.3

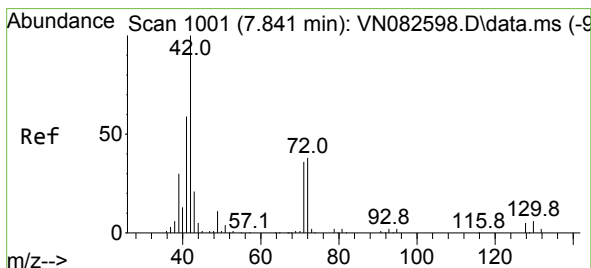
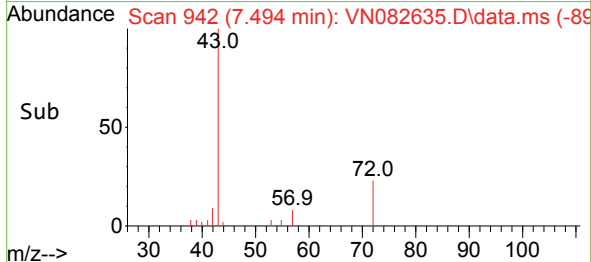
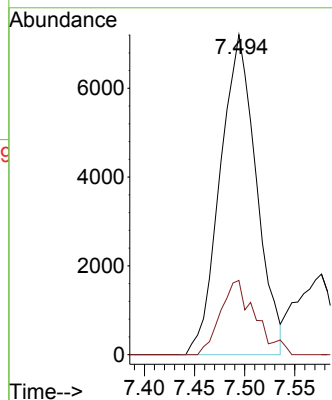
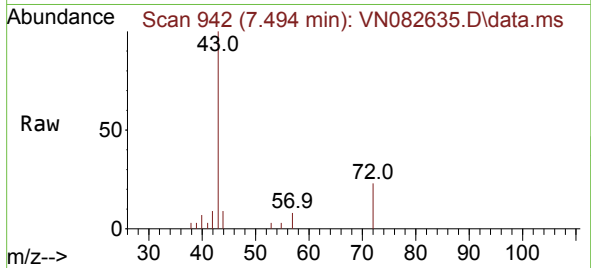




#25
2-Butanone
Concen: 12.621 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

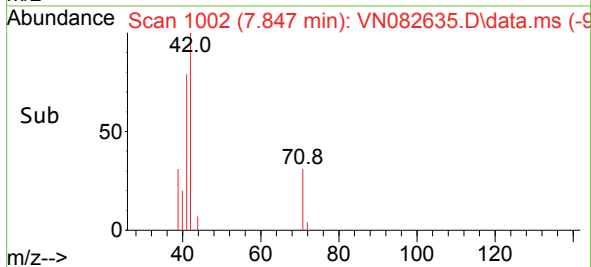
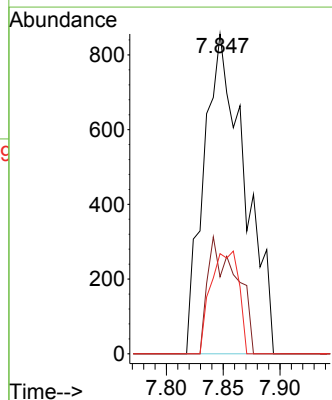
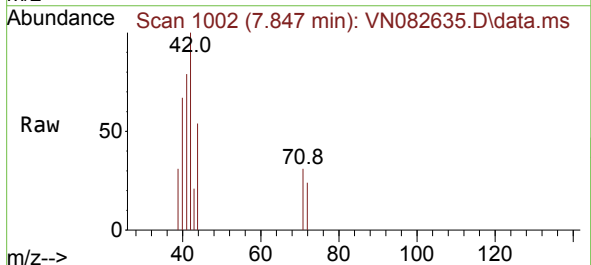
Instrument :
MSVOA_N
ClientSampleId :

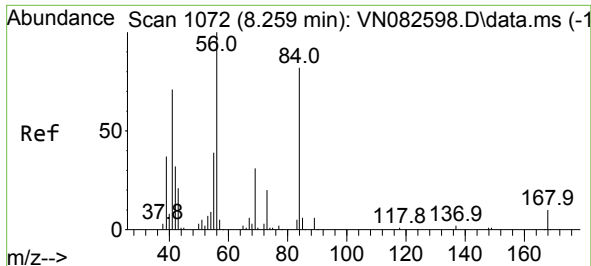
Tgt Ion: 43 Resp: 18088
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2



#29
Tetrahydrofuran
Concen: 2.436 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

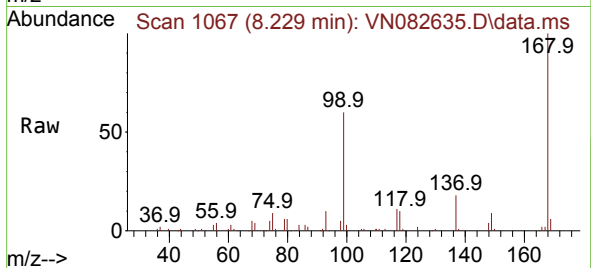
Tgt Ion: 42 Resp: 2137
Ion Ratio Lower Upper
42 100
72 25.6 30.0 45.0#
71 22.0 28.3 42.5#



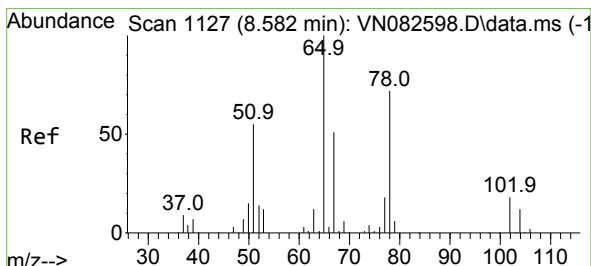
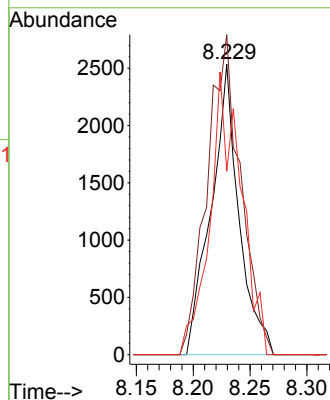
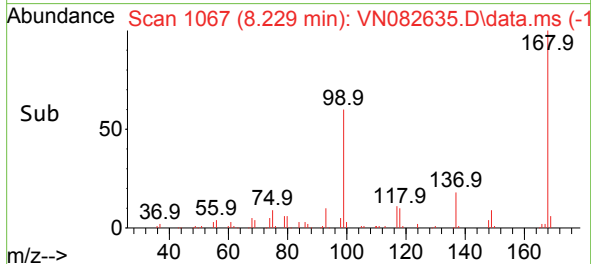


#31
Cyclohexane
Concen: 1.353 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Instrument :
MSVOA_N
ClientSampleId :

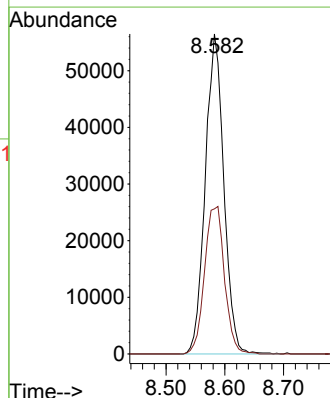
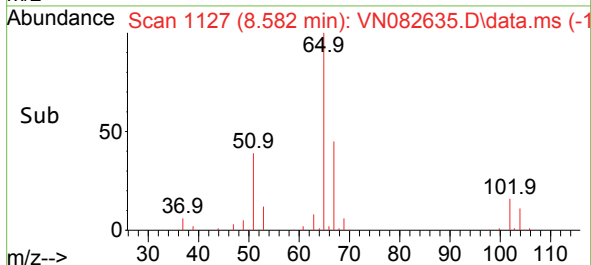
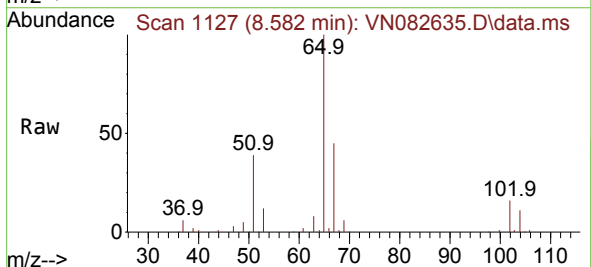


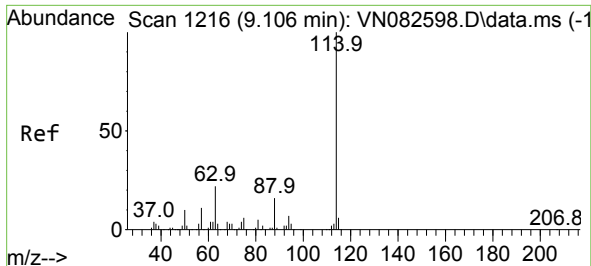
Tgt Ion: 56 Resp: 4330
Ion Ratio Lower Upper
56 100
69 110.2 24.5 36.7#
84 63.2 66.0 99.0#



#33
1,2-Dichloroethane-d4
Concen: 55.803 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 65 Resp: 123722
Ion Ratio Lower Upper
65 100
67 49.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

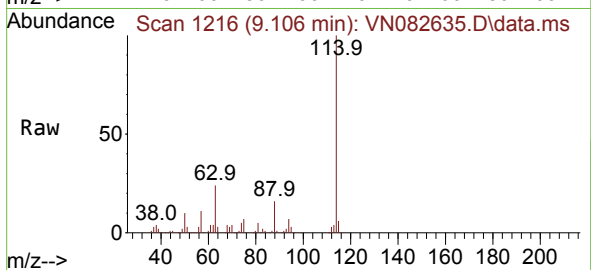
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Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

ClientSampleId :



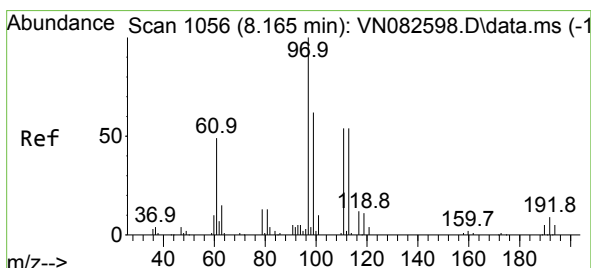
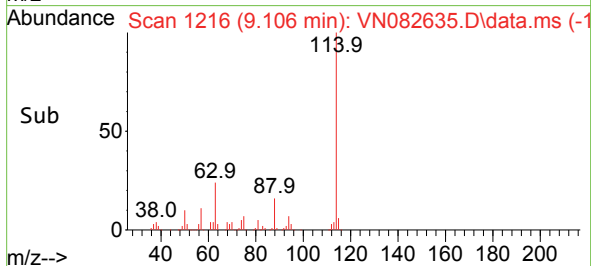
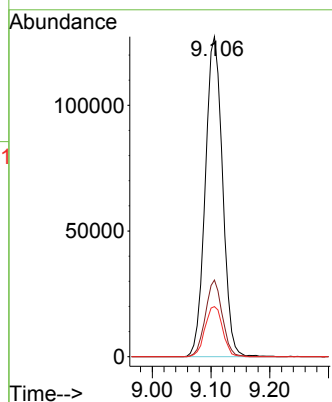
Tgt Ion:114 Resp: 258732

Ion Ratio Lower Upper

114 100

63 24.0 0.0 44.6

88 15.6 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.220 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

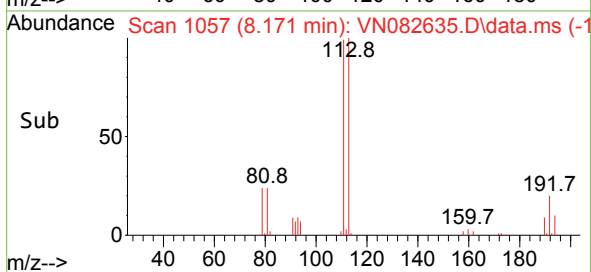
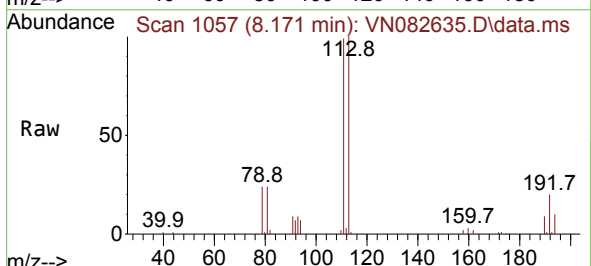
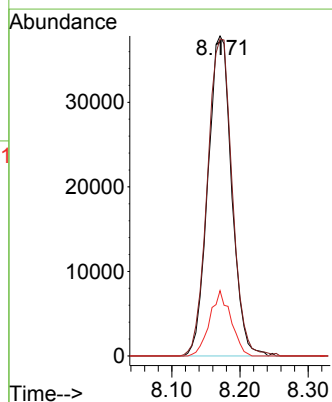
Tgt Ion:113 Resp: 91657

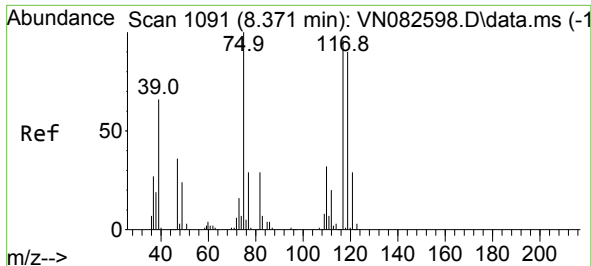
Ion Ratio Lower Upper

113 100

111 103.4 82.4 123.6

192 18.2 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.938 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

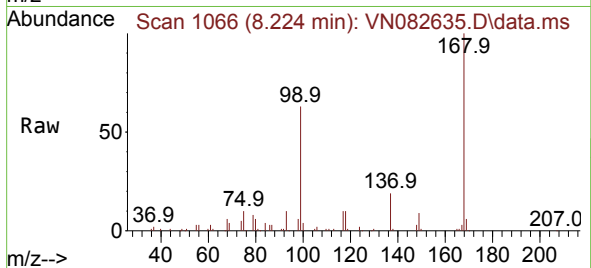
Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

ClientSampleId :



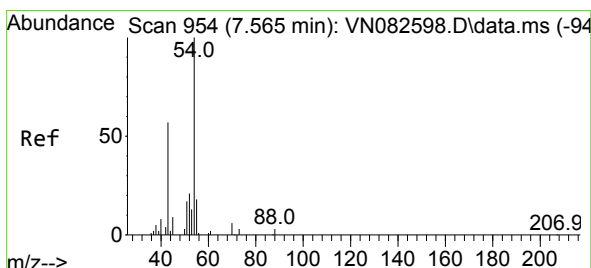
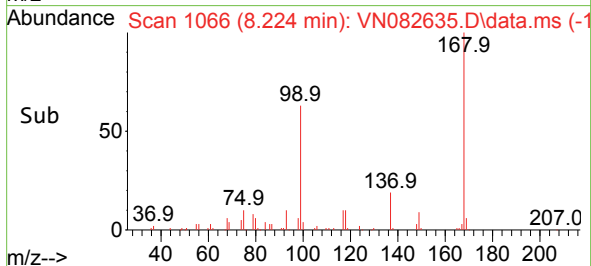
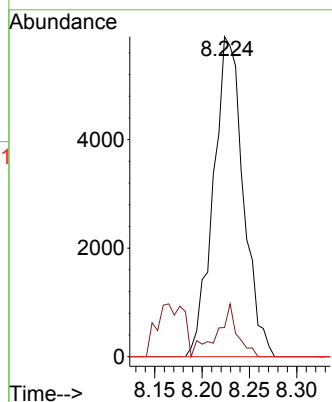
Tgt Ion: 75 Resp: 12957

Ion Ratio Lower Upper

75 100

110 9.9 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.457 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.012 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

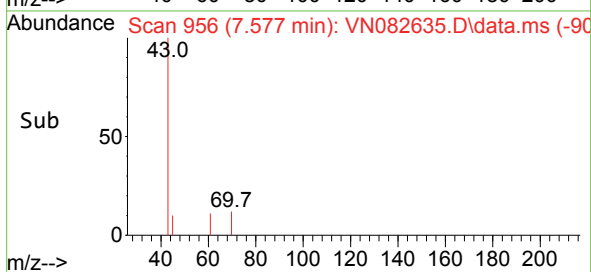
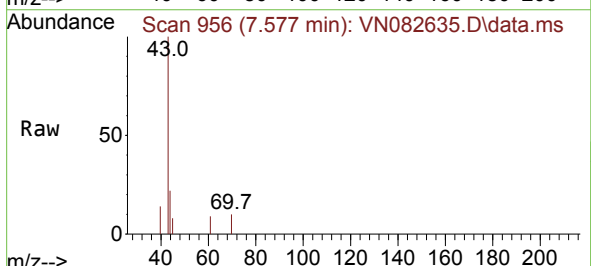
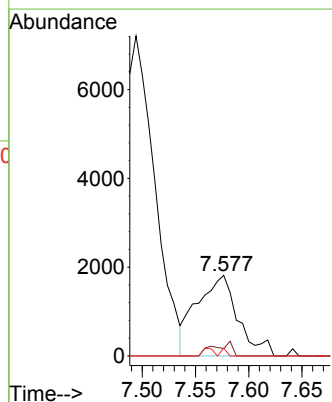
Tgt Ion: 43 Resp: 4870

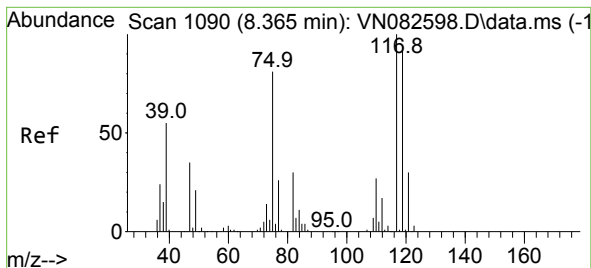
Ion Ratio Lower Upper

43 100

61 7.9 9.3 13.9#

70 3.7 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.958 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.135 min

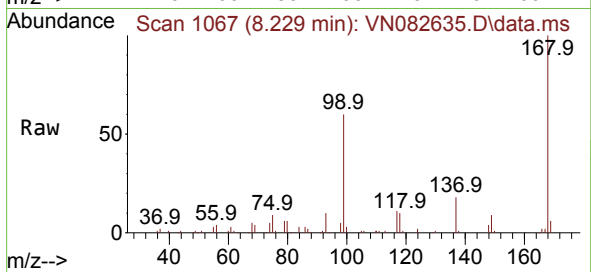
Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

ClientSampleId :



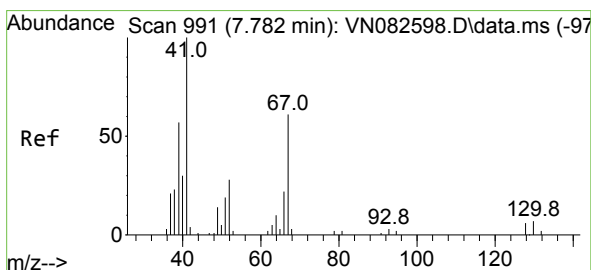
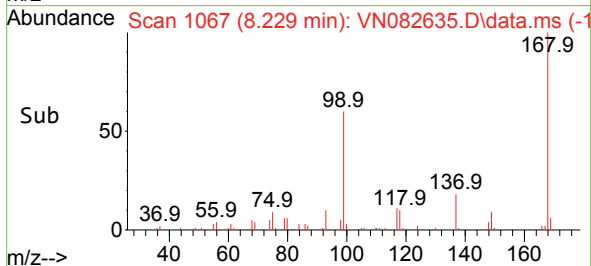
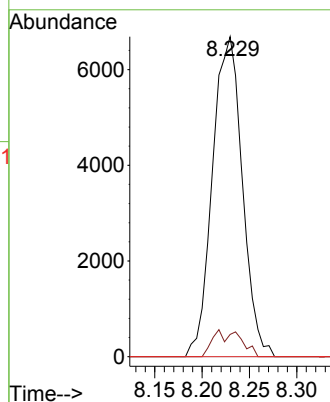
Tgt Ion:117 Resp: 14661

Ion Ratio Lower Upper

117 100

119 7.0 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 0.838 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.065 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Tgt Ion: 41 Resp: 1431

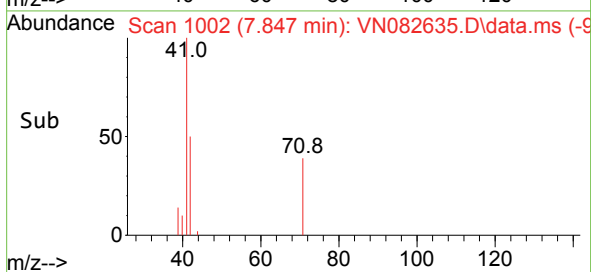
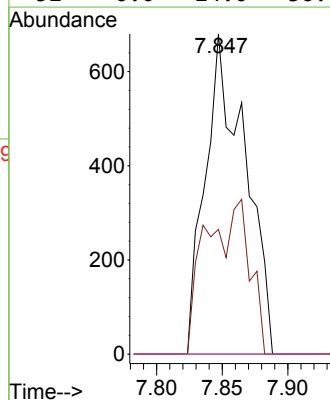
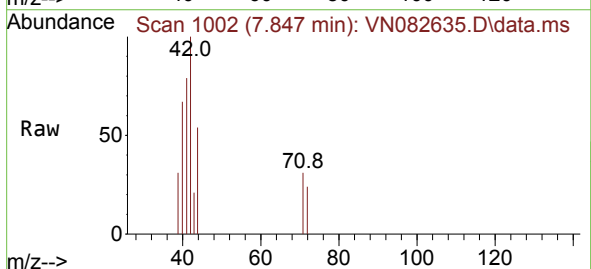
Ion Ratio Lower Upper

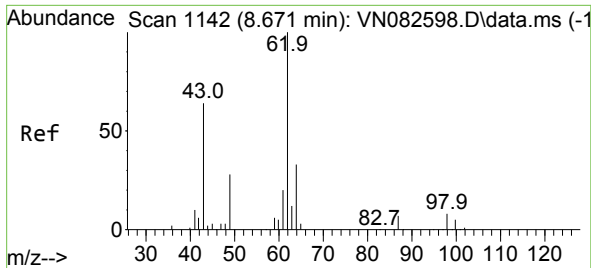
41 100

39 29.3 45.5 68.3#

67 0.0 50.5 75.7#

52 0.0 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.342 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.024 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

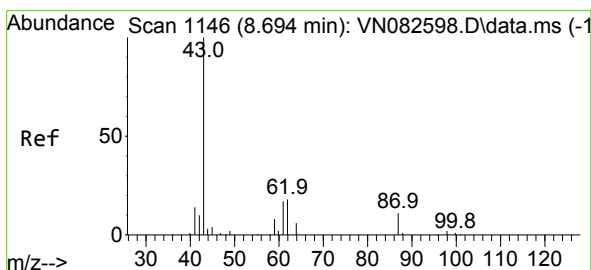
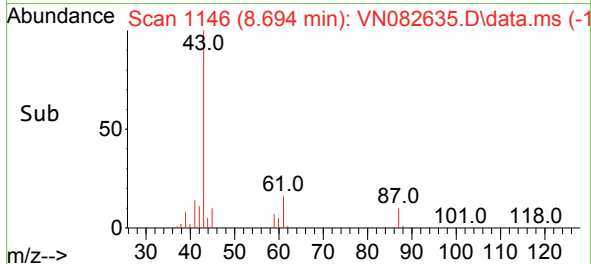
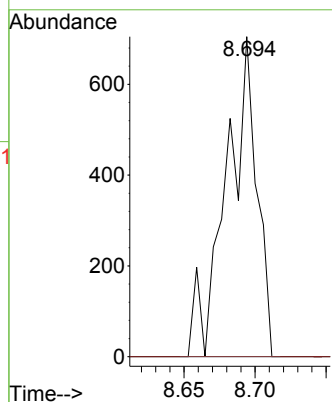
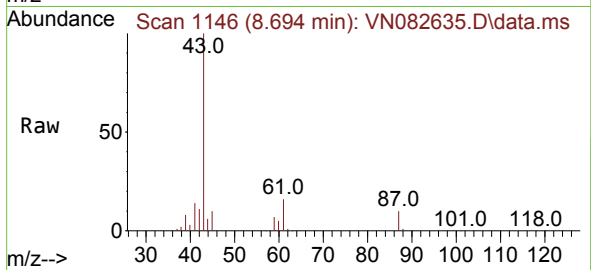
ClientSampleId :

Tgt Ion: 62 Resp: 1055

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 35.948 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

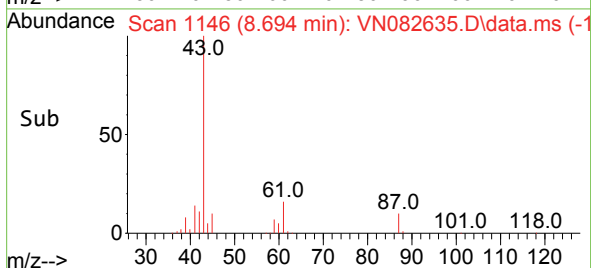
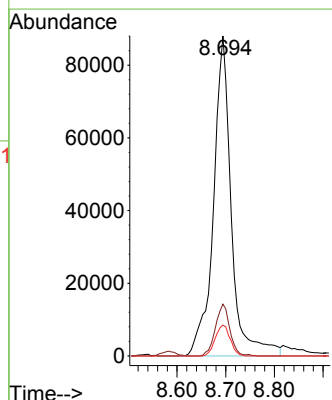
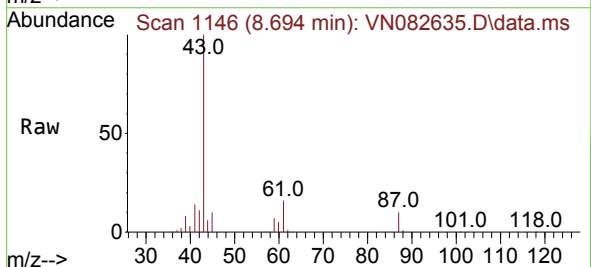
Tgt Ion: 43 Resp: 224540

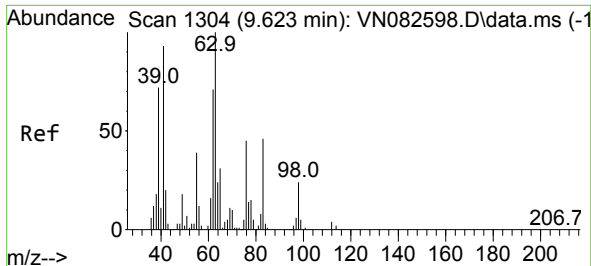
Ion Ratio Lower Upper

43 100

61 13.0 17.8 26.6#

87 8.0 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.814 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

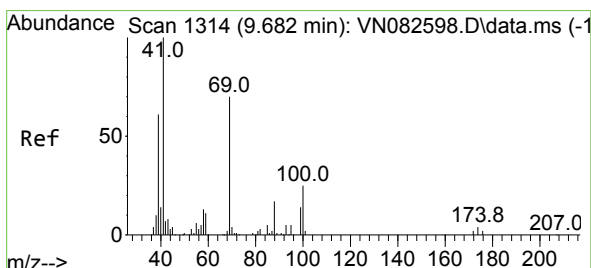
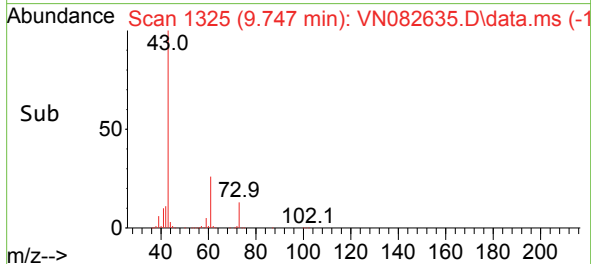
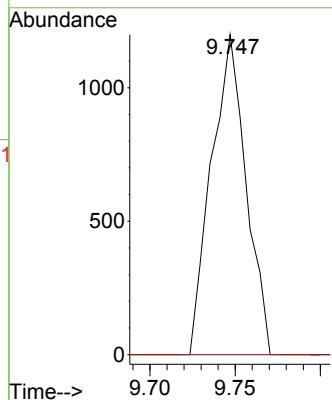
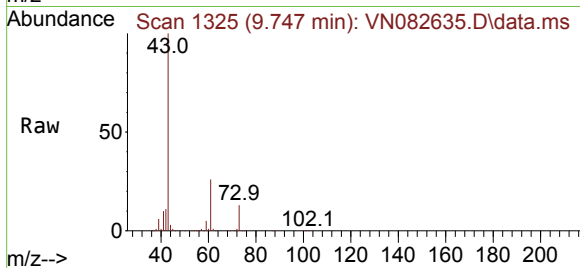
ClientSampleId :

Tgt Ion: 63 Resp: 1698

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 2.045 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.017 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

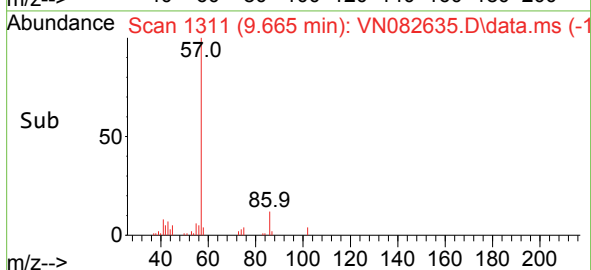
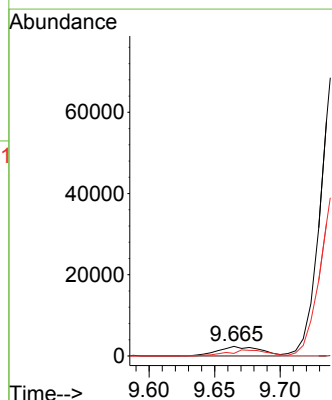
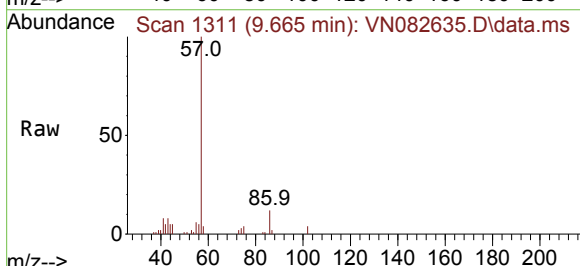
Tgt Ion: 41 Resp: 5266

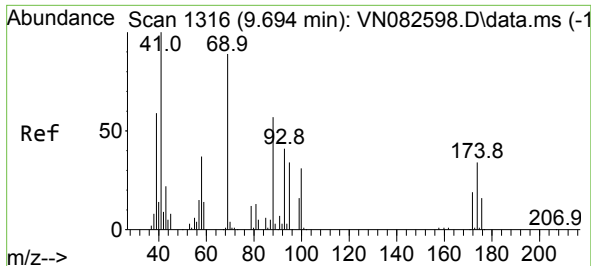
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 59.3 50.3 75.5





#49

1,4-Dioxane

Concen: 1.316 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

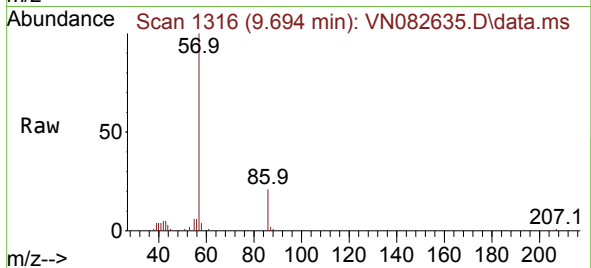
Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

ClientSampleId :



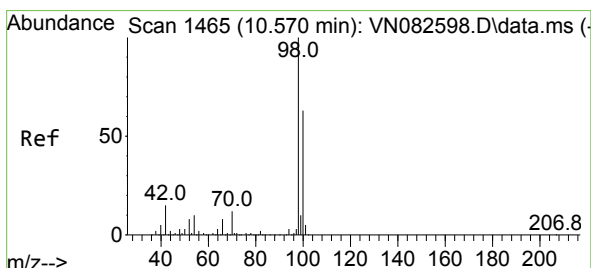
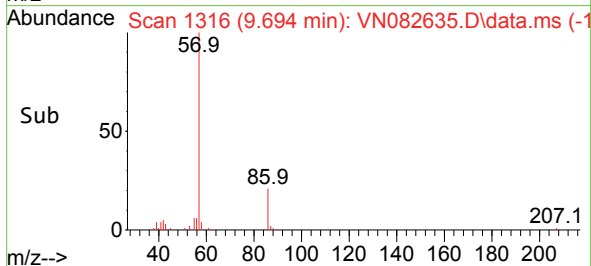
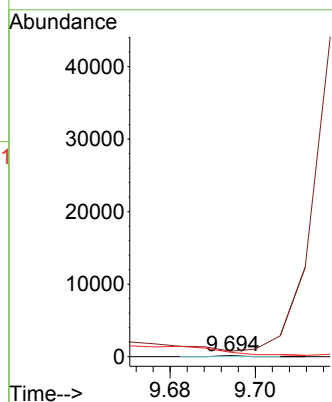
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.8#

58 0.0 59.4 89.0#



#50

Toluene-d8

Concen: 52.616 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN082635.D

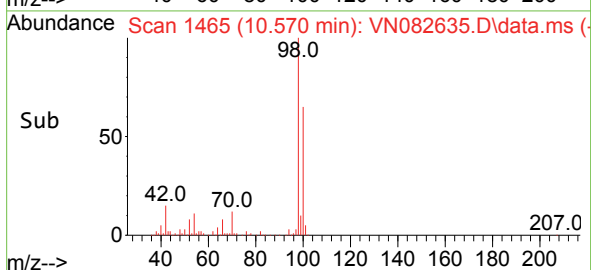
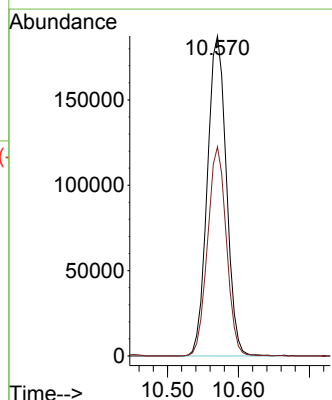
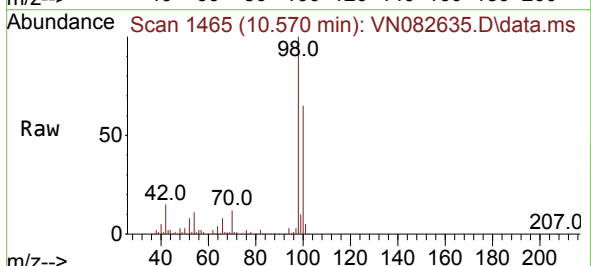
Acq: 19 Jun 2024 12:44

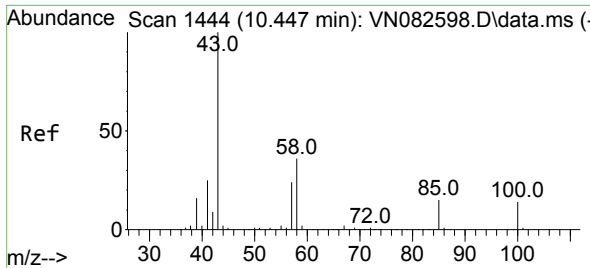
Tgt Ion: 98 Resp: 349242

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3

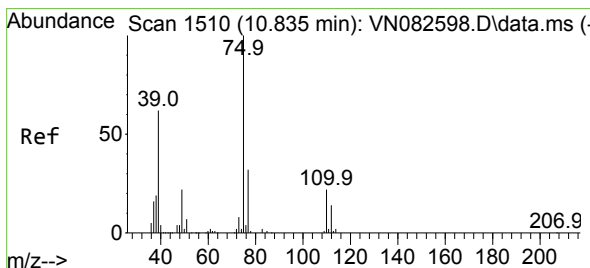
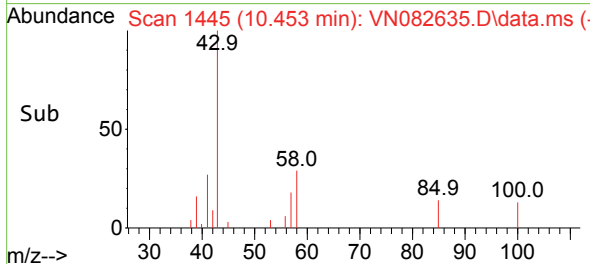
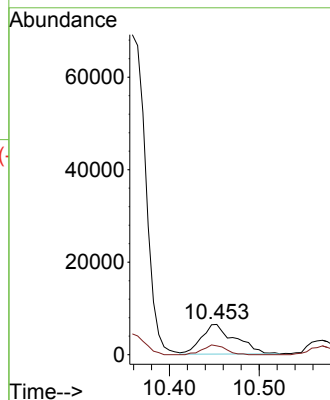
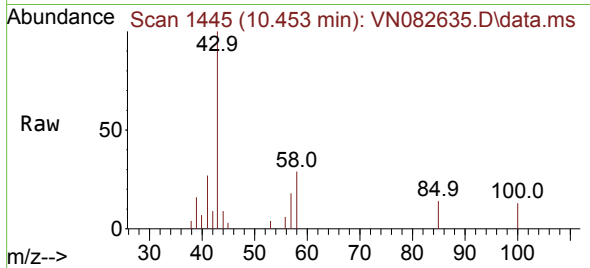




#51
4-Methyl-2-Pentanone
Concen: 5.253 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

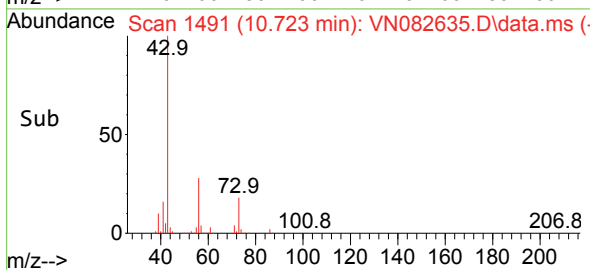
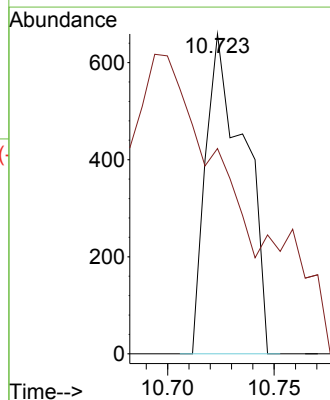
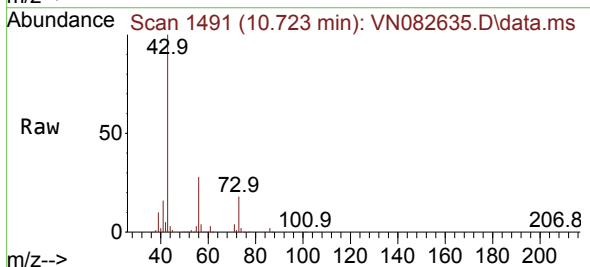
Instrument :
MSVOA_N
ClientSampleId :

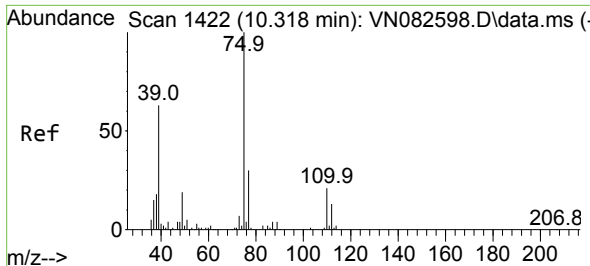
Tgt Ion: 43 Resp: 16829
Ion Ratio Lower Upper
43 100
58 22.4 28.2 42.4#



#53
t-1,3-Dichloropropene
Concen: 0.270 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

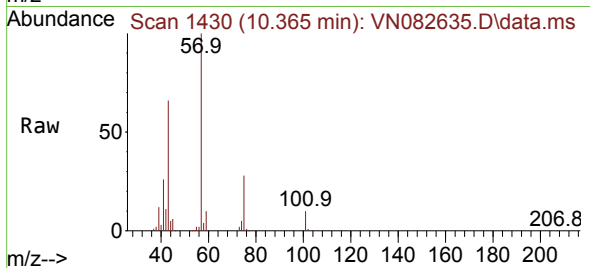
Tgt Ion: 75 Resp: 831
Ion Ratio Lower Upper
75 100
77 32.2 25.7 38.5



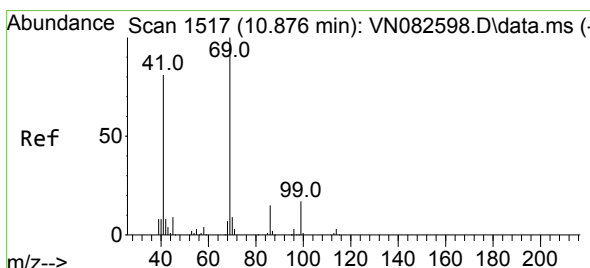
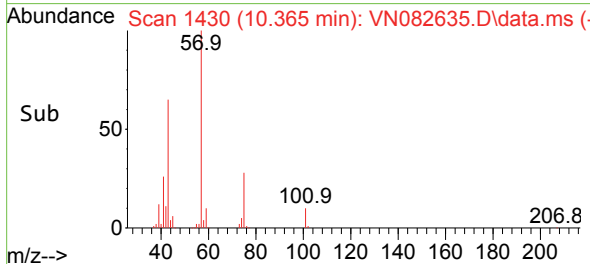
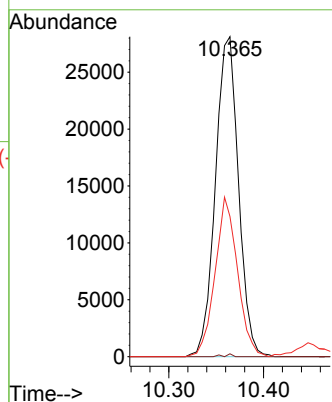


#54
 cis-1,3-Dichloropropene
 Concen: 14.944 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN082635.D
 Acq: 19 Jun 2024 12:44

Instrument :
 MSVOA_N
 ClientSampleId :

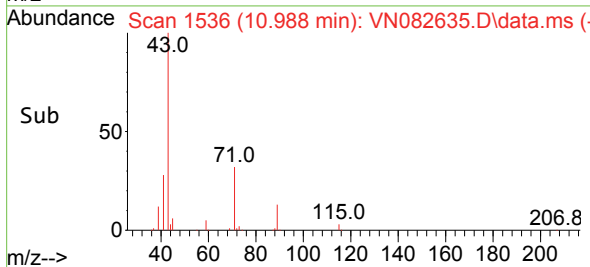
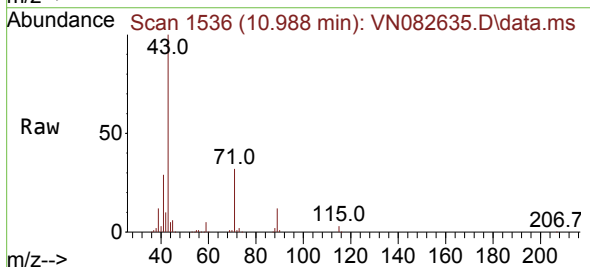
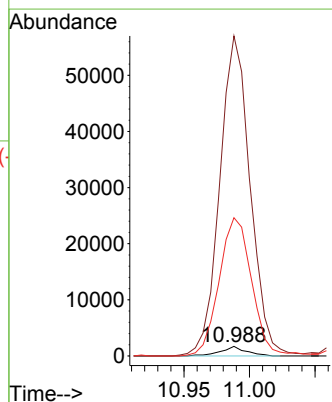


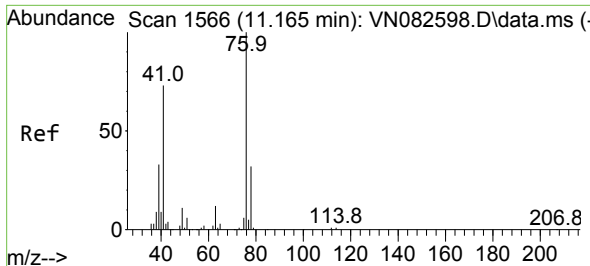
Tgt Ion: 75 Resp: 47645
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.3 36.5#
 39 43.2 50.5 75.7#



#56
 Ethyl methacrylate
 Concen: 0.781 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN082635.D
 Acq: 19 Jun 2024 12:44

Tgt Ion: 69 Resp: 2300
 Ion Ratio Lower Upper
 69 100
 41 4015.2 63.4 95.2#
 39 1853.3 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 2.074 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

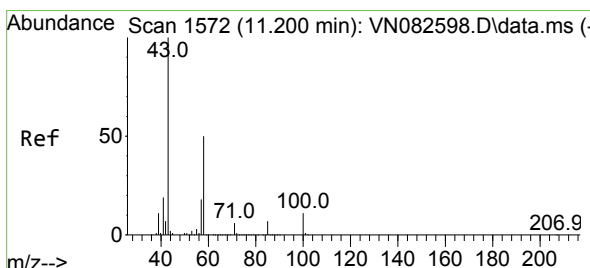
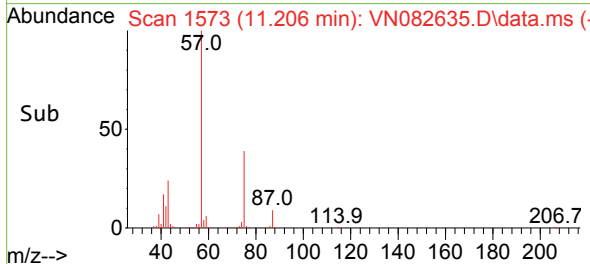
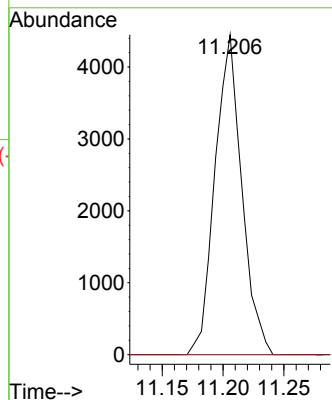
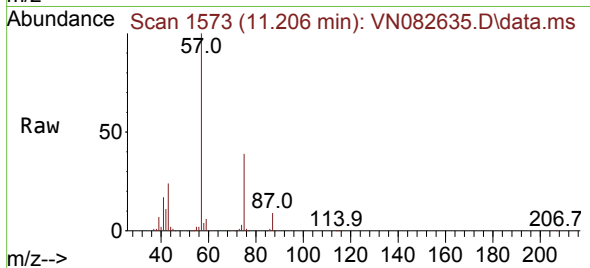
ClientSampleId :

Tgt Ion: 76 Resp: 6820

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 37.861 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN082635.D

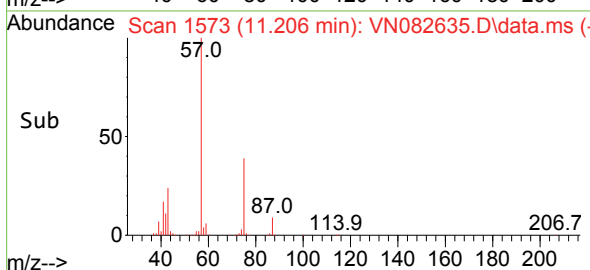
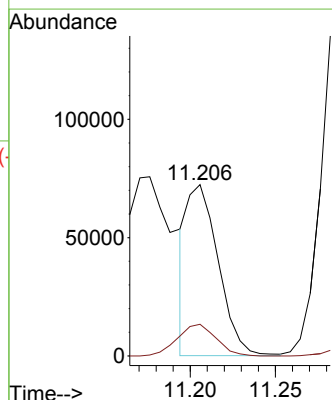
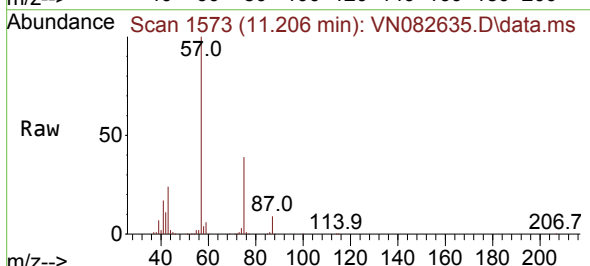
Acq: 19 Jun 2024 12:44

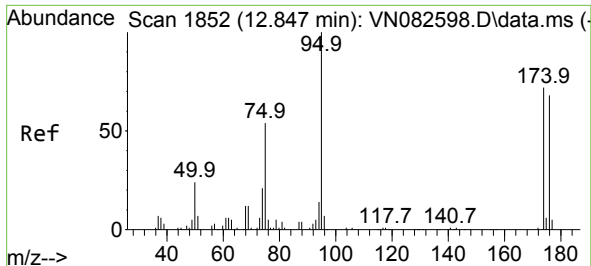
Tgt Ion: 43 Resp: 92193

Ion Ratio Lower Upper

43 100

58 23.0 24.6 73.8#

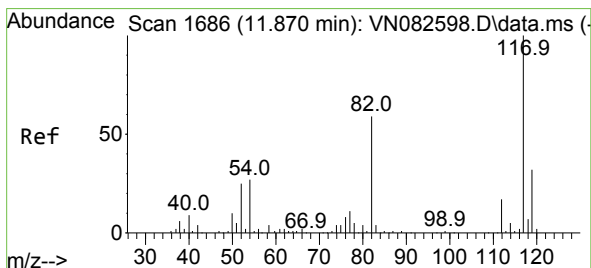
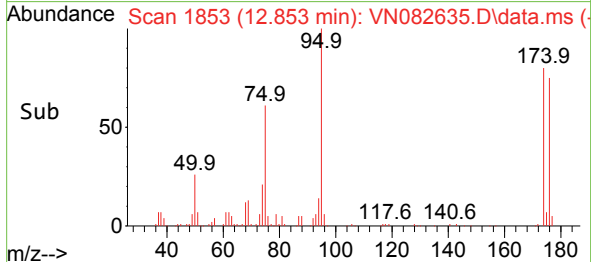
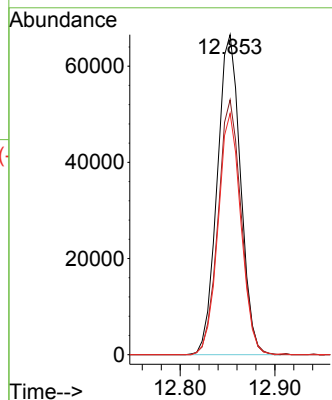
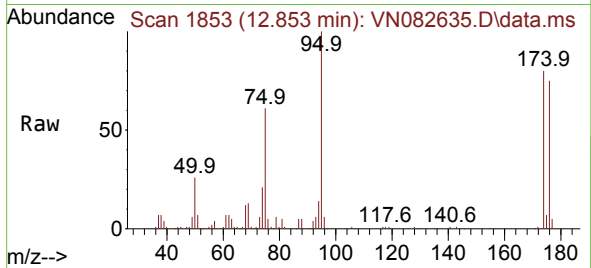




#62
4-Bromofluorobenzene
Concen: 49.663 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

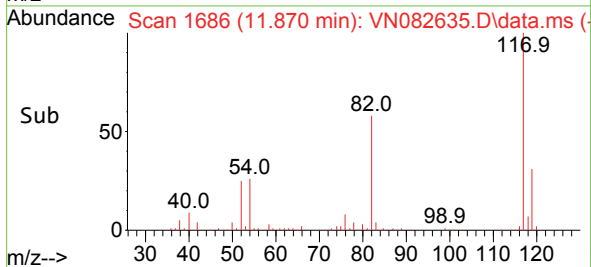
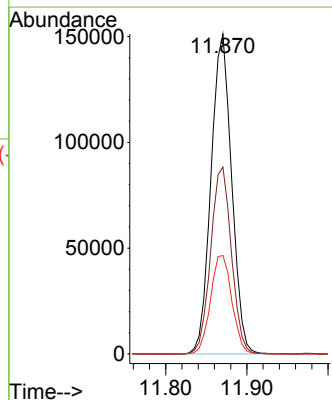
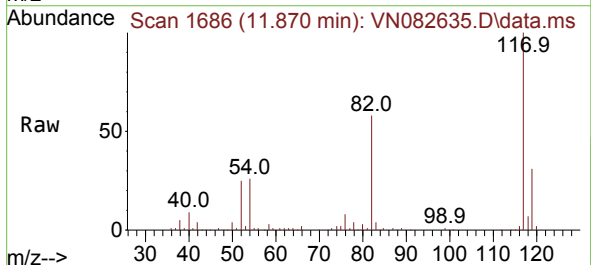
Instrument :
MSVOA_N
ClientSampleId :

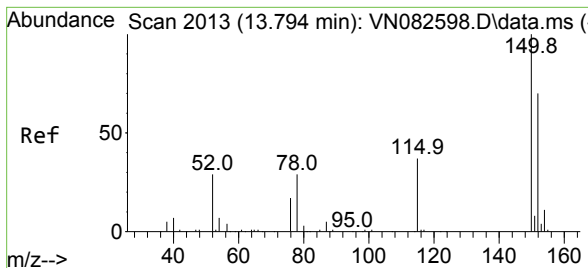
Tgt Ion: 95 Resp: 113649
Ion Ratio Lower Upper
95 100
174 79.0 0.0 159.2
176 74.0 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 117 Resp: 266590
Ion Ratio Lower Upper
117 100
82 58.4 47.5 71.3
119 30.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Instrument :

MSVOA_N

ClientSampleId :

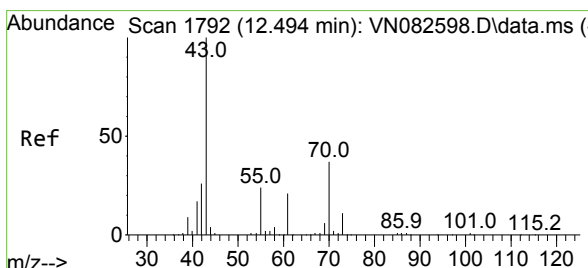
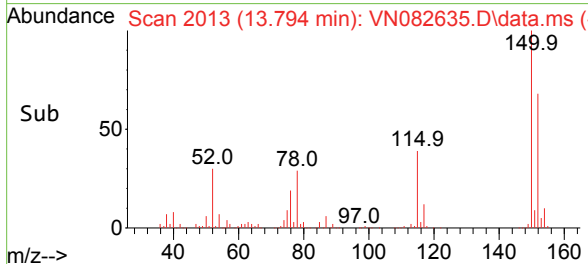
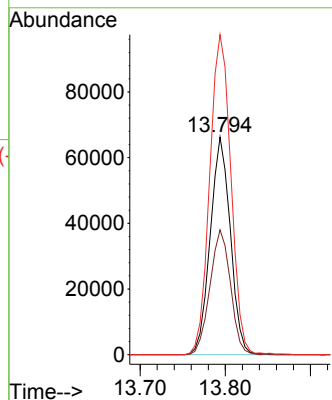
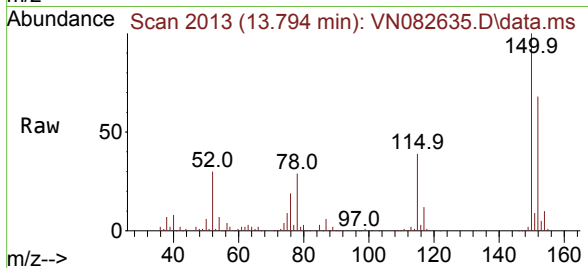
Tgt Ion:152 Resp: 108848

Ion Ratio Lower Upper

152 100

115 58.4 30.6 91.6

150 154.6 0.0 348.6



#74

N-ethyl acetate

Concen: 0.369 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN082635.D

Acq: 19 Jun 2024 12:44

Tgt Ion: 43 Resp: 1627

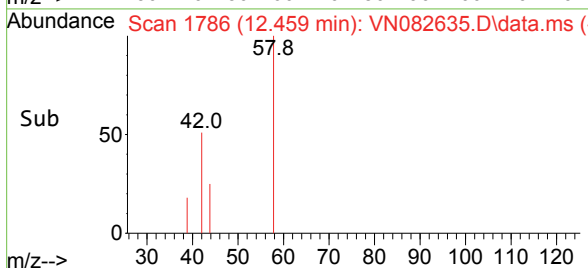
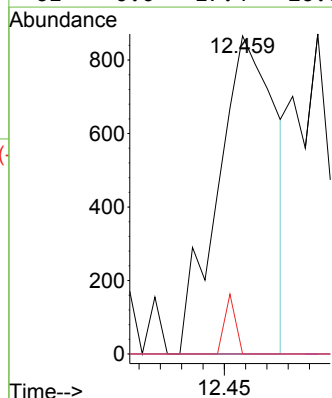
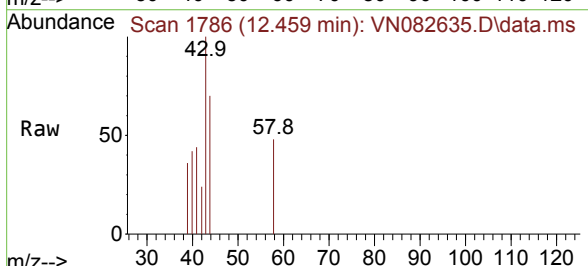
Ion Ratio Lower Upper

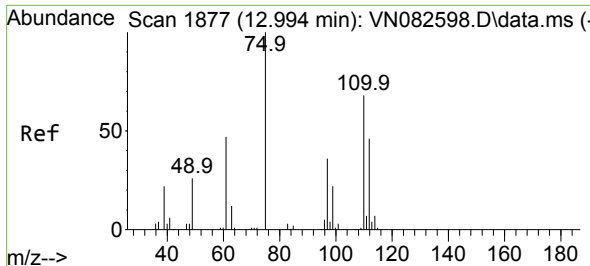
43 100

70 0.0 29.8 44.6#

55 0.0 18.7 28.1#

61 0.0 17.4 26.0#

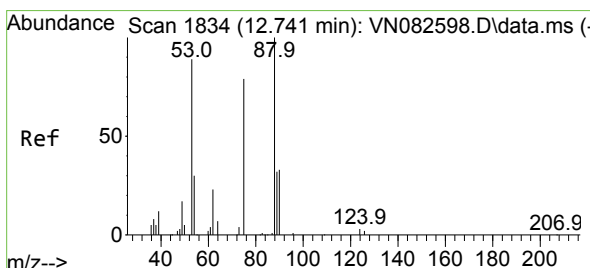
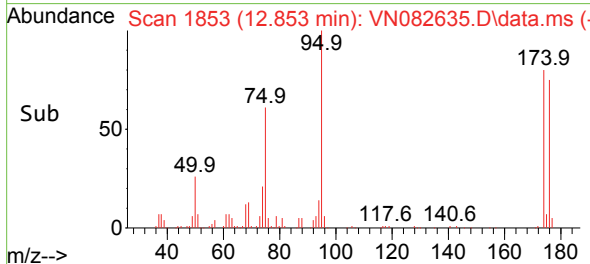
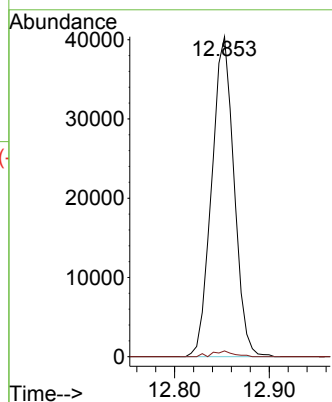
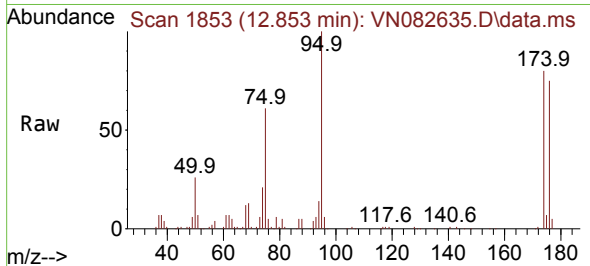




#76
1,2,3-Trichloropropane
Concen: 24.844 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 66140
Ion Ratio Lower Upper
75 100
77 1.7 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.436 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN082635.D
Acq: 19 Jun 2024 12:44

Tgt Ion: 75 Resp: 66140
Ion Ratio Lower Upper
75 100
53 0.3 88.4 132.6#
89 0.0 36.3 54.5#

