

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090924\
 Data File : VN083713.D
 Acq On : 09 Sep 2024 13:12
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 01:19:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

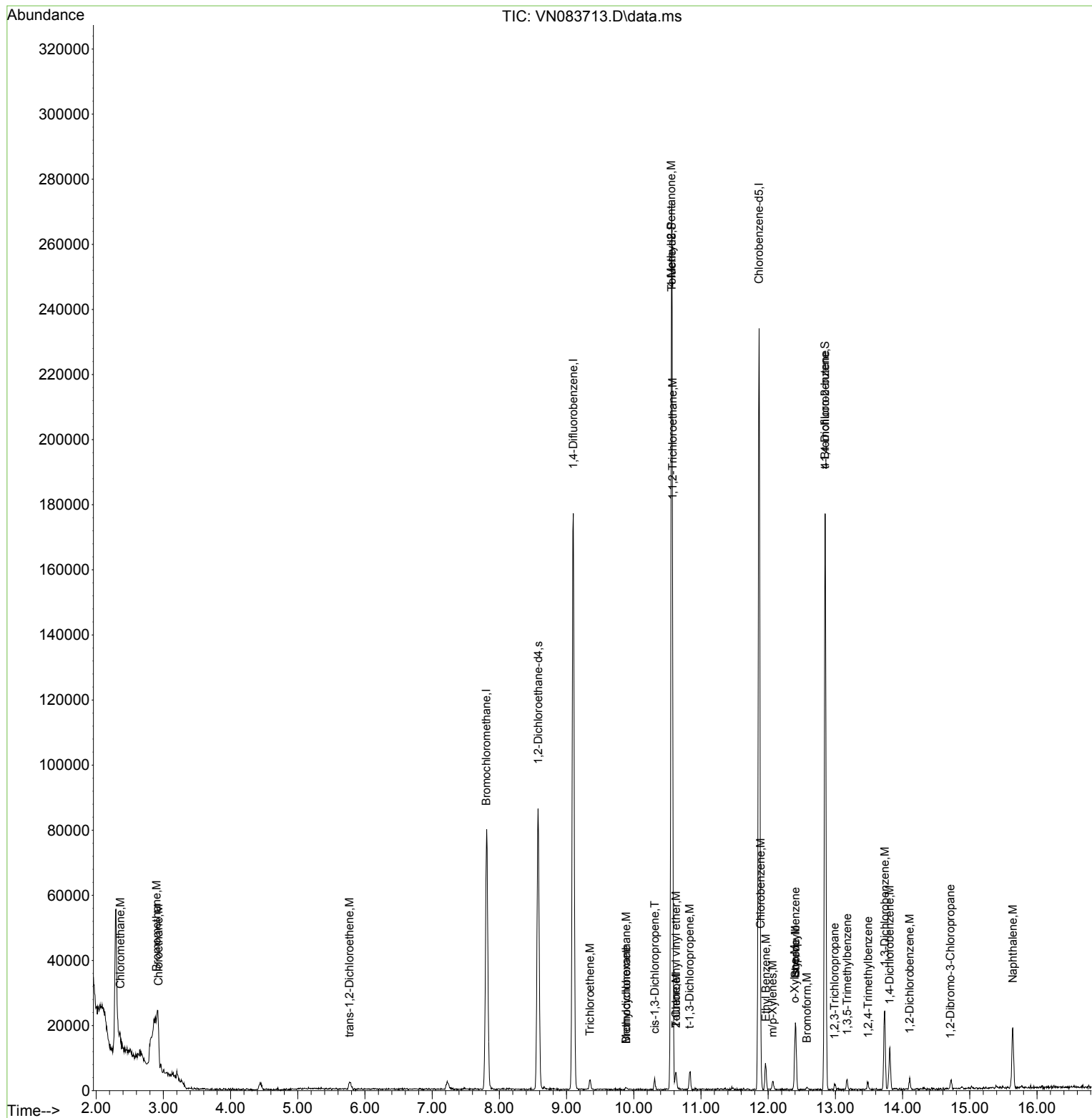
Internal Standards						
1) Bromochloromethane	7.806	128	26165	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	149720	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	126005	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72793	30.436	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.467%
60) 4-Bromofluorobenzene	12.847	95	61208	28.185	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.933%
63) Toluene-d8	10.565	98	179384	30.745	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.500%
Target Compounds						
						Qvalue
3) Chloromethane	2.359	50	678	0.372	ug/l	90
5) Bromomethane	2.900	94	522	0.499	ug/l	93
6) Chloroethane	2.930	64	507	0.405	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	788	0.468	ug/l	97
37) Trichloroethene	9.347	130	1241	0.742	ug/l #	68
38) Methylcyclohexane	9.888	83	591	0.208	ug/l #	19
41) Bromodichloromethane	9.888	83	591	0.222	ug/l #	72
48) t-1,3-Dichloropropene	10.829	75	3177	1.133	ug/l	94
49) cis-1,3-Dichloropropene	10.312	75	1800	0.617	ug/l #	63
50) 1,1,2-Trichloroethane	10.576	97	5642	3.536	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	296	0.272	ug/l #	1
56) Bromoform	12.576	173	441	0.363	ug/l #	35
58) 4-Methyl-2-Pentanone	10.559	43	991	0.496	ug/l #	1
62) Toluene	10.629	91	4095	0.565	ug/l	93
64) Chlorobenzene	11.888	112	2990	0.667	ug/l	93
66) Ethyl Benzene	11.965	91	6514	0.791	ug/l	97
67) m/p-Xylenes	12.065	106	1147	0.379	ug/l	92
68) o-Xylene	12.394	106	2046	0.698	ug/l	81
69) Styrene	12.406	104	7712	1.556	ug/l	99
70) Isopropylbenzene	12.406	105	1653	0.214	ug/l #	50
72) 1,2,3-Trichloropropane	12.988	75	1078	0.582	ug/l	1
76) 1,3,5-Trimethylbenzene	13.176	105	2735	0.423	ug/l	88
77) t-1,4-Dichloro-2-butene	12.847	75	33396	42.632	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.488	105	2000	0.306	ug/l	56
83) 1,3-Dichlorobenzene	13.735	146	10217	2.986	ug/l	96
84) 1,4-Dichlorobenzene	13.806	146	5347	1.563	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	1645	0.495	ug/l	82
88) 1,2-Dibromo-3-Chloropr...	14.711	75	472	1.016	ug/l #	4
91) Naphthalene	15.641	128	18023	3.031	ug/l	97

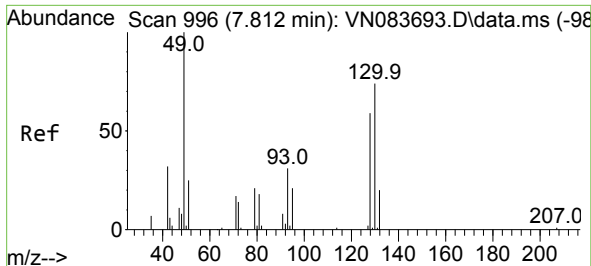
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

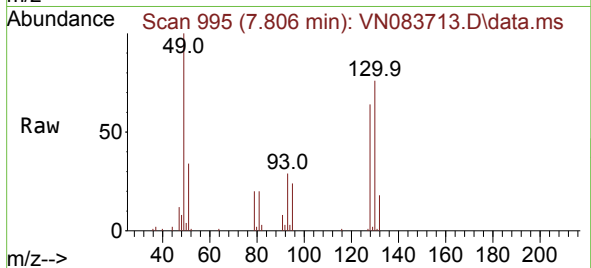
Quant Time: Sep 10 01:19:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
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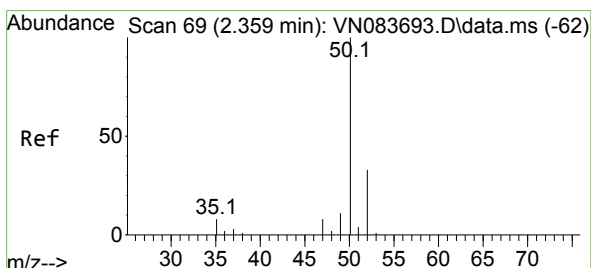
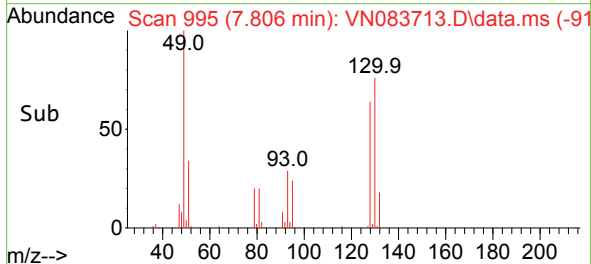
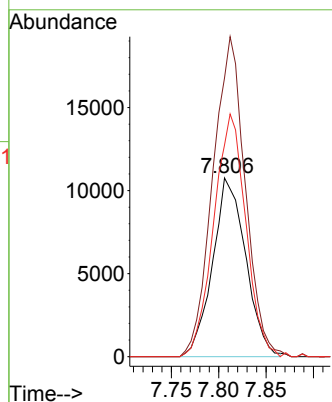


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Instrument :
MSVOA_N
ClientSampleId :

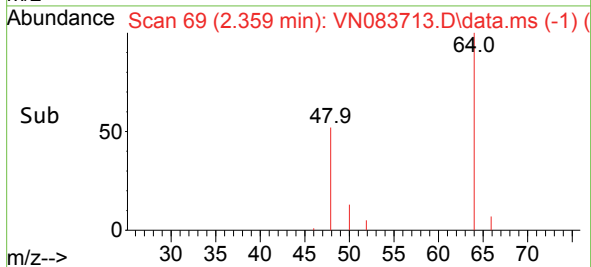
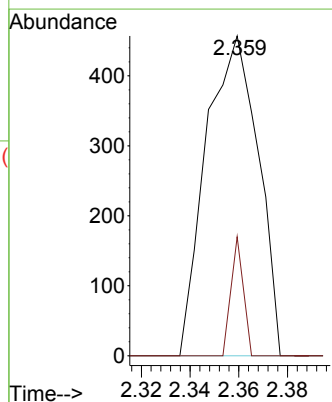
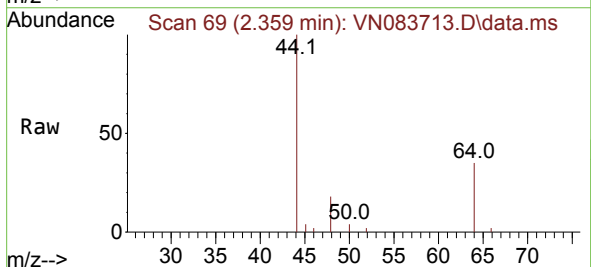


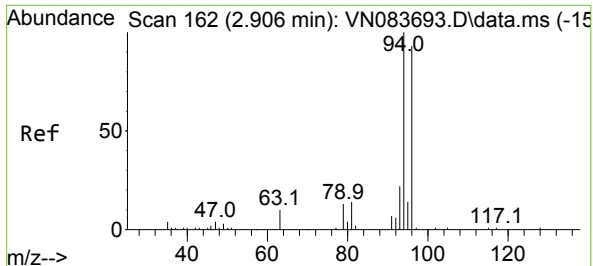
Tgt Ion:128 Resp: 26165
Ion Ratio Lower Upper
128 100
49 175.3 0.0 403.7
130 131.5 0.0 323.3



#3
Chloromethane
Concen: 0.372 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Tgt Ion: 50 Resp: 678
Ion Ratio Lower Upper
50 100
52 37.2 25.4 38.0

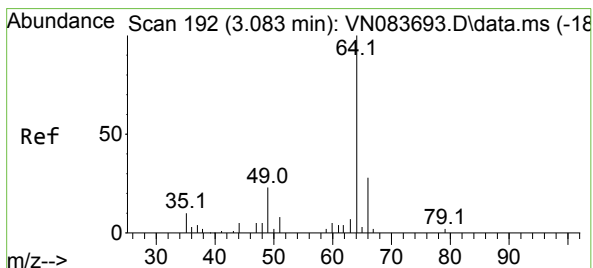
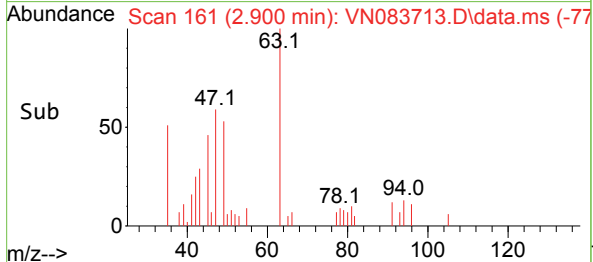
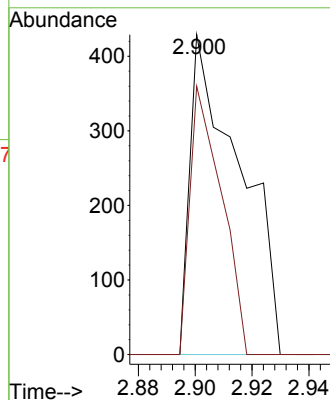
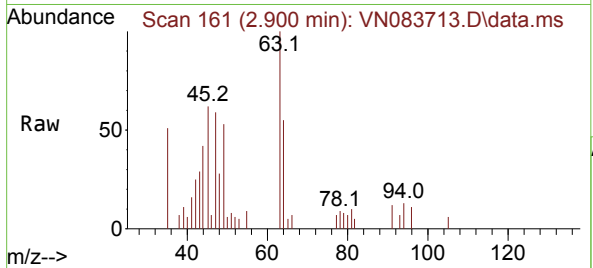




#5
Bromomethane
Concen: 0.499 ug/l
RT: 2.900 min Scan# 115
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

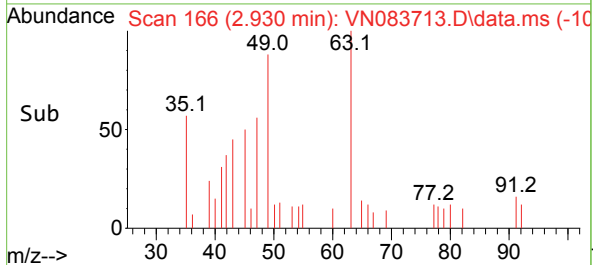
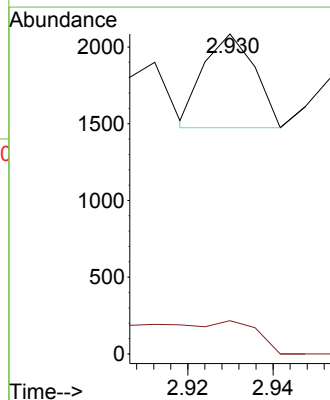
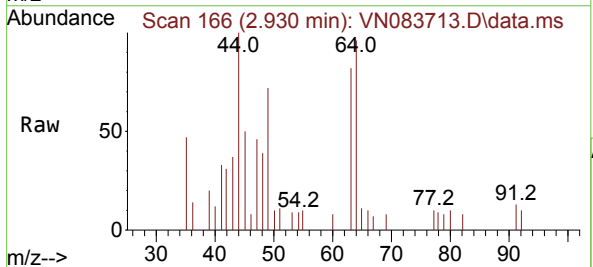
Instrument :
MSVOA_N
ClientSampleId :

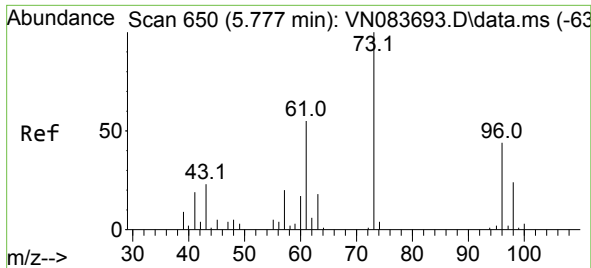
Tgt Ion: 94 Resp: 522
Ion Ratio Lower Upper
94 100
96 83.9 72.8 109.2



#6
Chloroethane
Concen: 0.405 ug/l
RT: 2.930 min Scan# 166
Delta R.T. -0.153 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

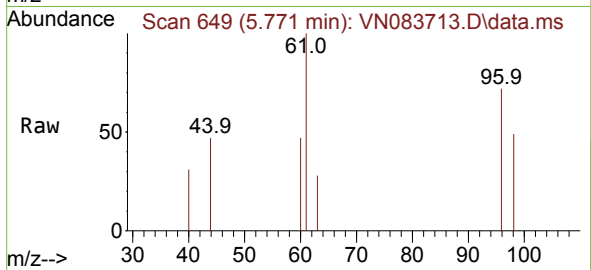
Tgt Ion: 64 Resp: 507
Ion Ratio Lower Upper
64 100
66 35.4 26.7 40.1



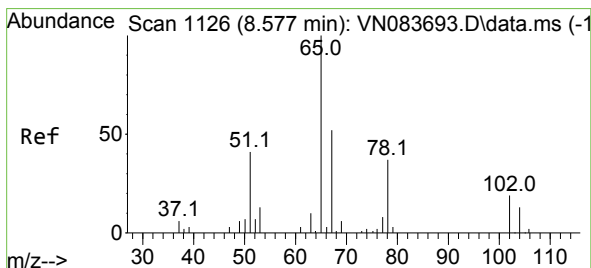
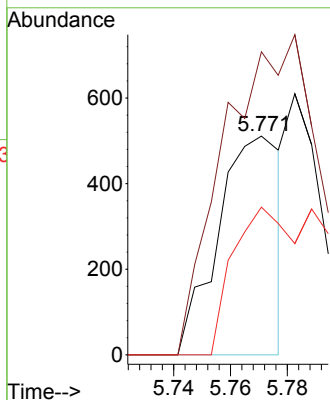
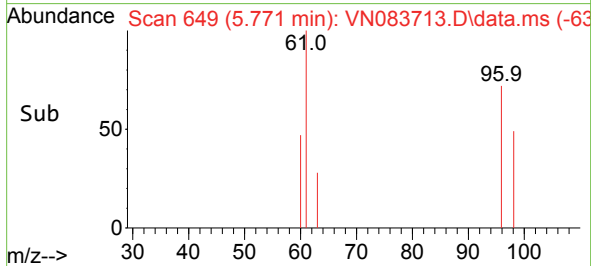


#19
trans-1,2-Dichloroethene
Concen: 0.468 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Instrument :
MSVOA_N
ClientSampleId :

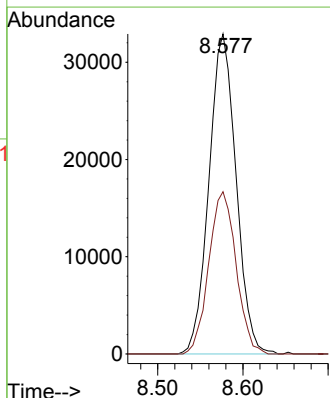
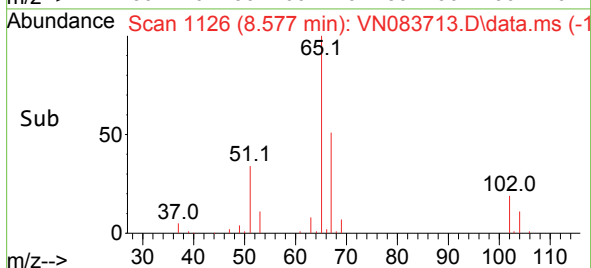
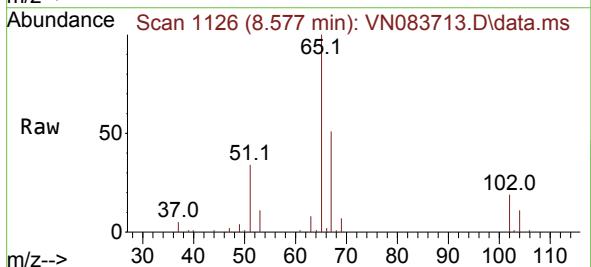


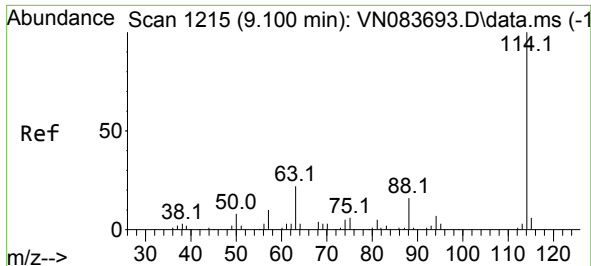
Tgt Ion:	96	Resp:	788
Ion	Ratio	Lower	Upper
96	100		
61	138.6	111.8	167.6
98	67.5	49.2	73.8



#27
1,2-Dichloroethane-d4
Concen: 30.436 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Tgt Ion:	65	Resp:	72793
Ion	Ratio	Lower	Upper
65	100		
67	51.1	43.2	64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Instrument :

MSVOA_N

ClientSampleId :

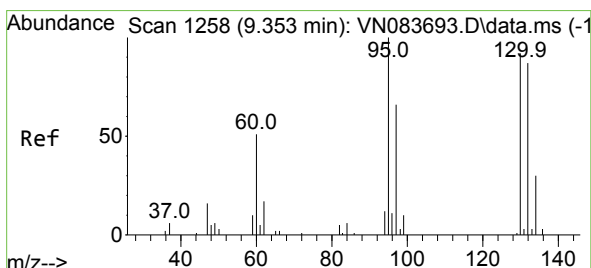
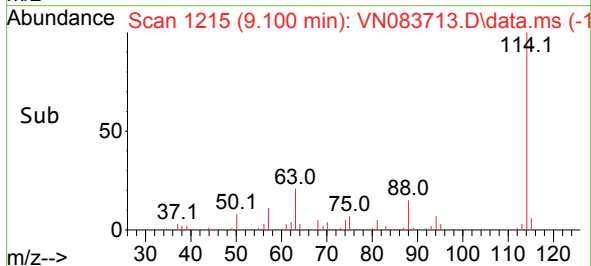
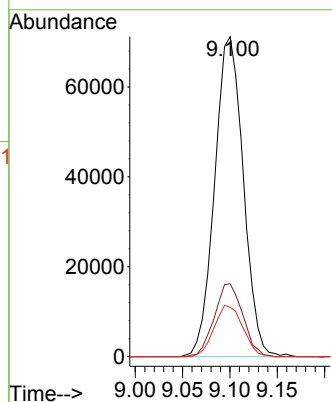
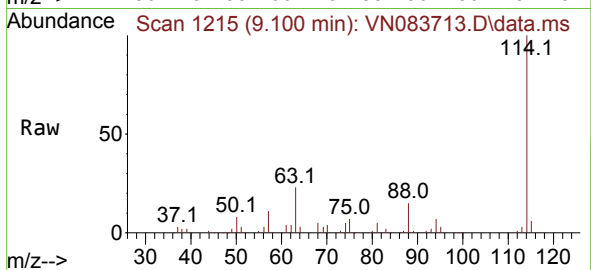
Tgt Ion:114 Resp: 149720

Ion Ratio Lower Upper

114 100

63 22.7 15.9 23.9

88 16.1 12.7 19.1



#37

Trichloroethene

Concen: 0.742 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN083713.D

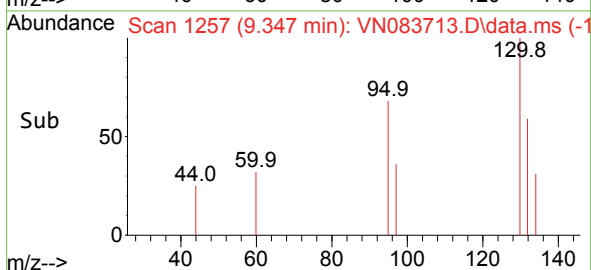
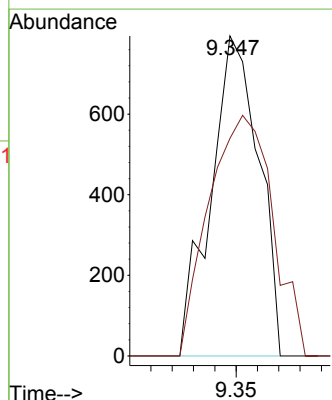
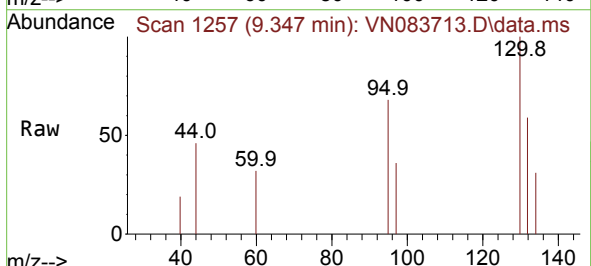
Acq: 09 Sep 2024 13:12

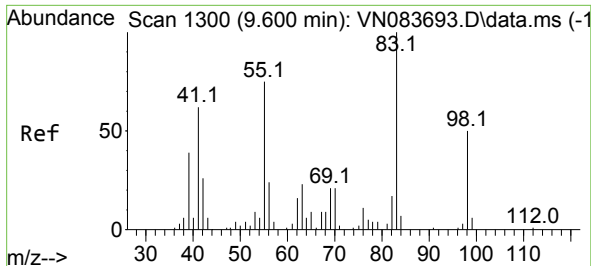
Tgt Ion:130 Resp: 1241

Ion Ratio Lower Upper

130 100

95 68.0 80.2 120.4#





#38

Methylcyclohexane

Concen: 0.208 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

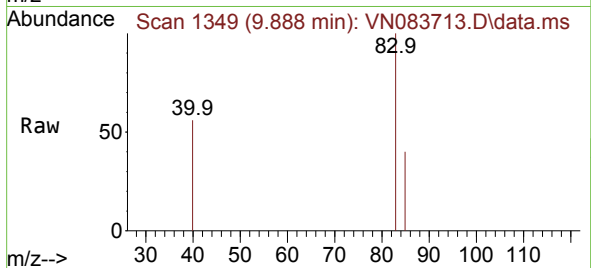
Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

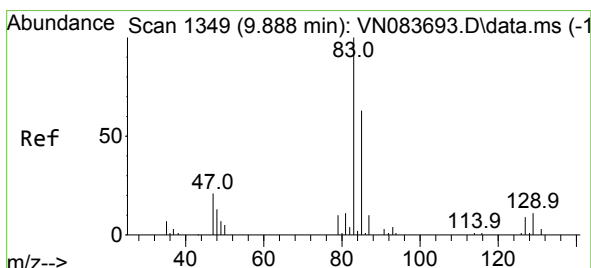
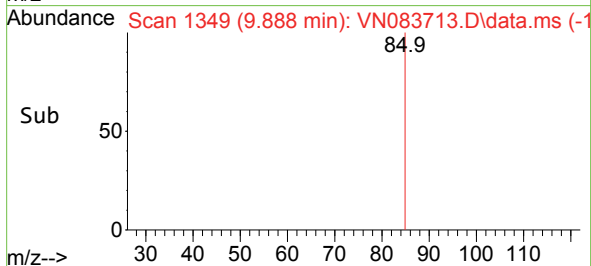
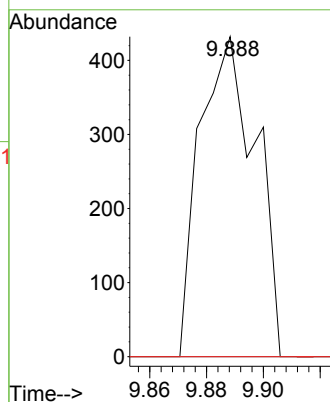
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 83	Resp: 591
Ion Ratio	Lower Upper
83	100
55	0.0 36.6 109.9#
98	0.0 23.8 71.5#



#41

Bromodichloromethane

Concen: 0.222 ug/l

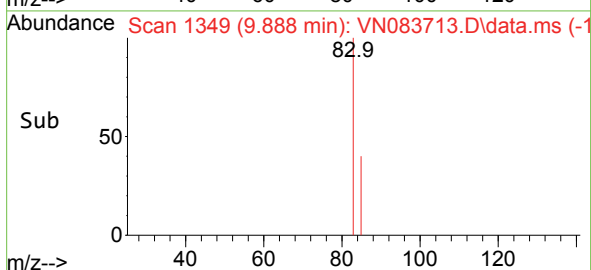
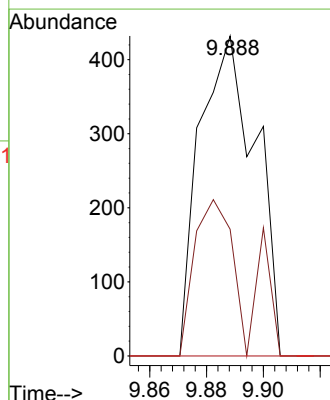
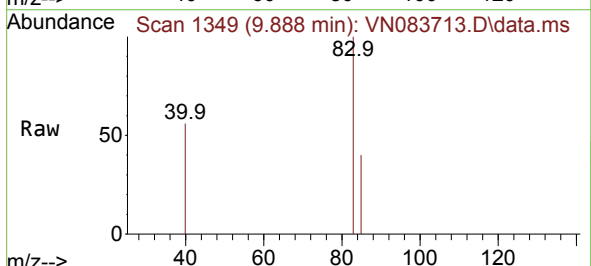
RT: 9.888 min Scan# 1349

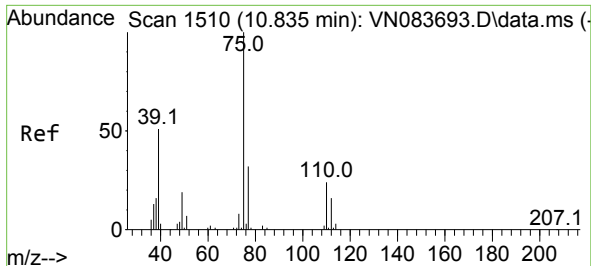
Delta R.T. 0.000 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Tgt Ion: 83	Resp: 591
Ion Ratio	Lower Upper
83	100
85	39.6 49.4 74.2#
127	0.0 7.3 10.9#

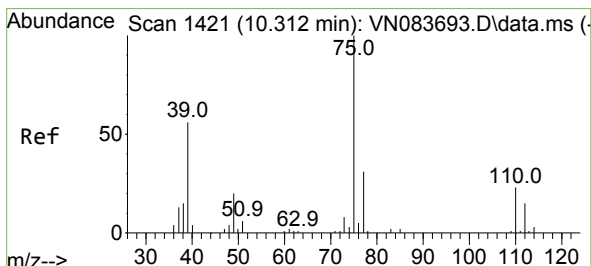
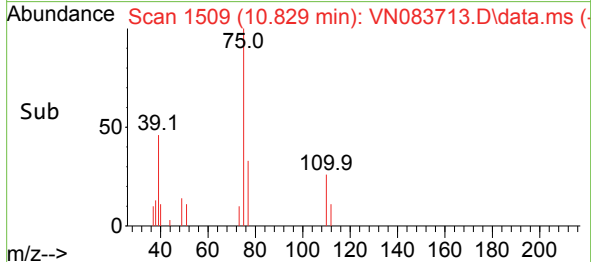
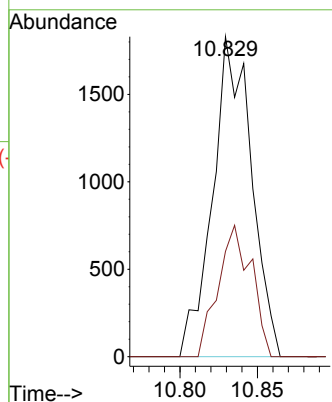
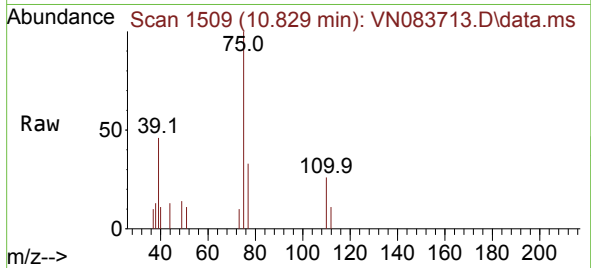




#48
 t-1,3-Dichloropropene
 Concen: 1.133 ug/l
 RT: 10.829 min Scan# 1510
 Delta R.T. -0.006 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

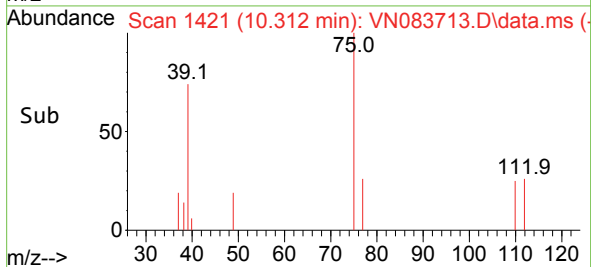
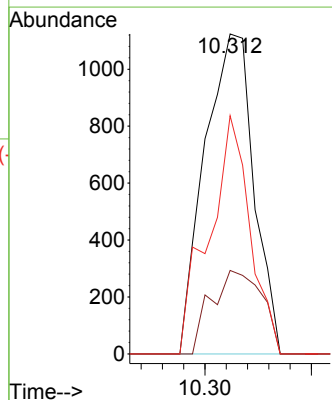
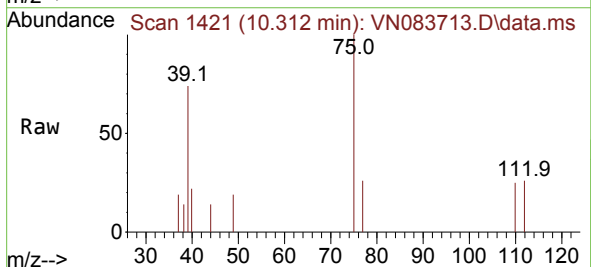
Instrument :
 MSVOA_N
 ClientSampleId :

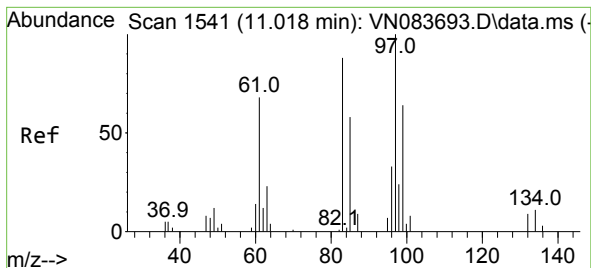
Tgt Ion: 75 Resp: 3177
 Ion Ratio Lower Upper
 75 100
 77 32.9 23.8 35.6



#49
 cis-1,3-Dichloropropene
 Concen: 0.617 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

Tgt Ion: 75 Resp: 1800
 Ion Ratio Lower Upper
 75 100
 77 26.1 24.9 37.3
 39 74.5 31.0 46.6#





#50

1,1,2-Trichloroethane

Concen: 3.536 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

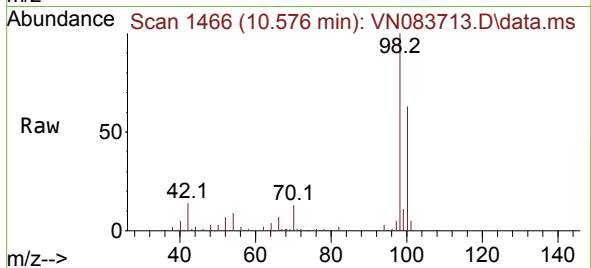
Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 5642

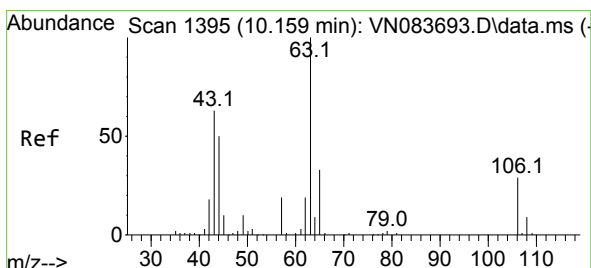
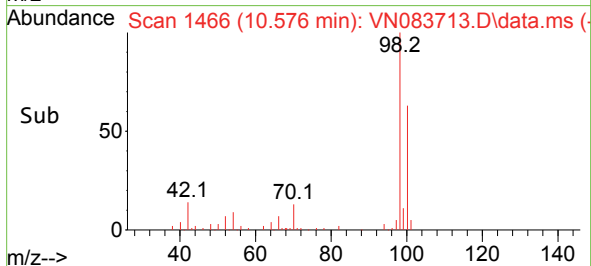
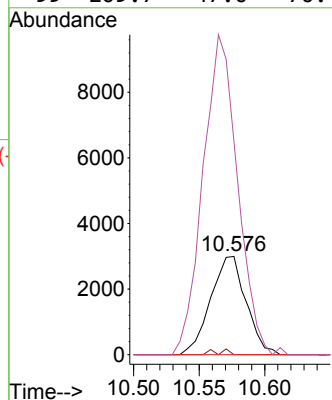
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 209.7 47.0 70.4#



#55

2-Chloroethyl vinyl ether

Concen: 0.272 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.471 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

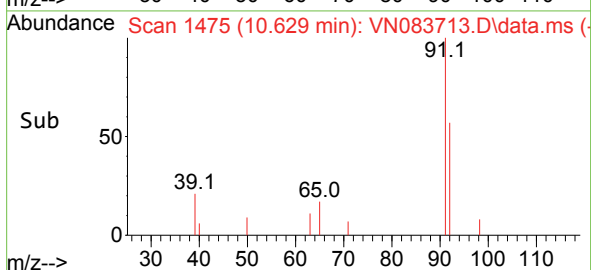
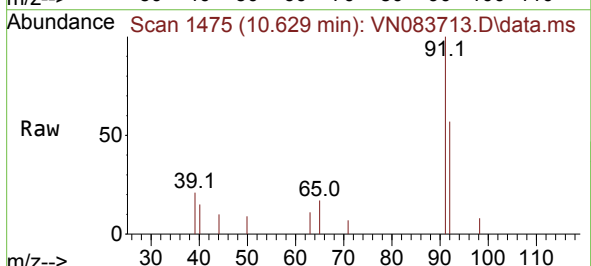
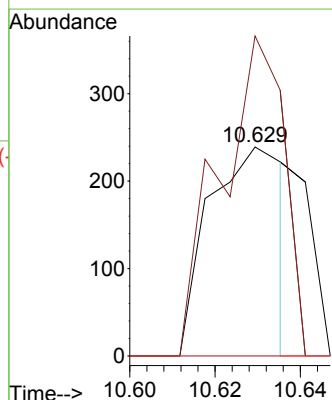
Tgt Ion: 63 Resp: 296

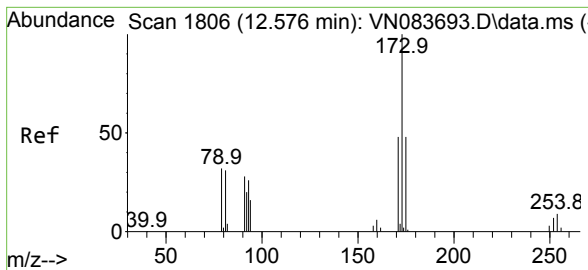
Ion Ratio Lower Upper

63 100

65 128.4 26.2 39.2#

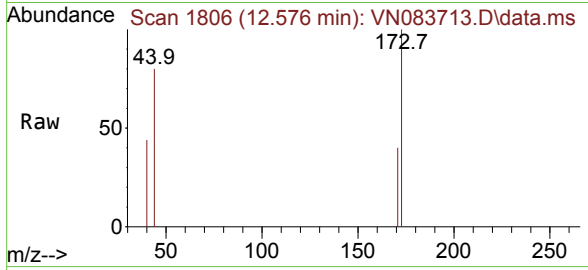
106 0.0 23.8 35.8#



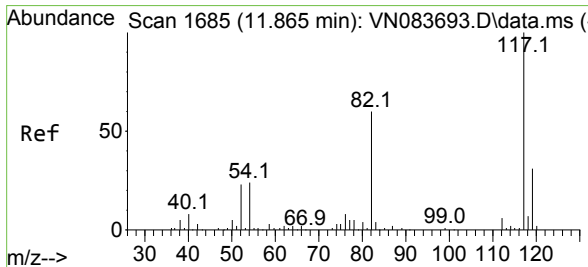
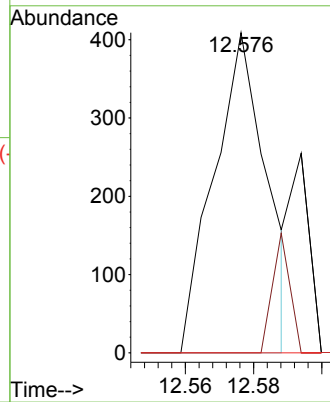
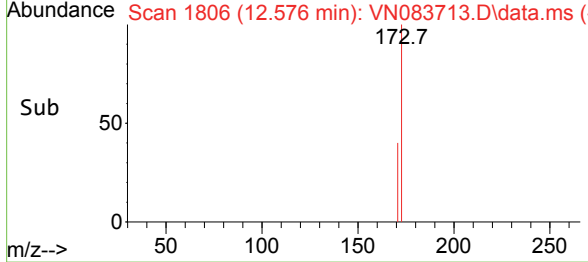


#56
Bromoform
Concen: 0.363 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

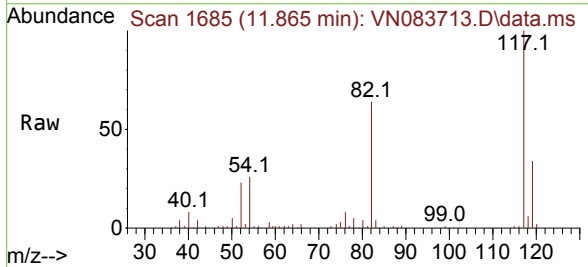
Instrument :
MSVOA_N
ClientSampleId :



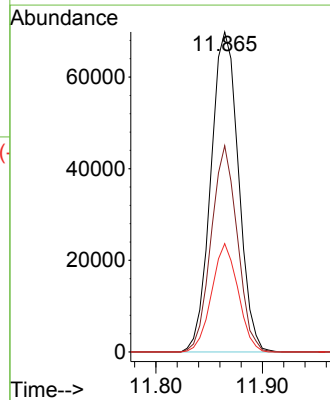
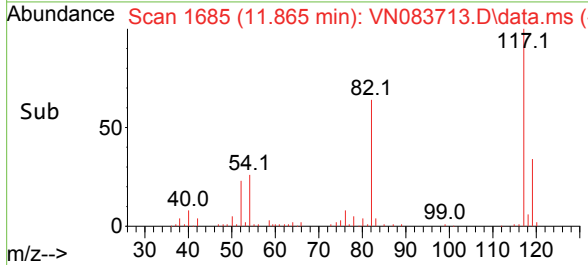
Tgt Ion:173 Resp: 441
Ion Ratio Lower Upper
173 100
175 0.0 40.0 60.0#
254 0.0 8.3 12.5#

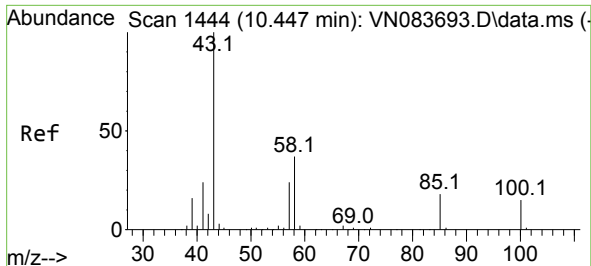


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12



Tgt Ion:117 Resp: 126005
Ion Ratio Lower Upper
117 100
82 61.0 46.6 69.8
119 32.4 25.4 38.2

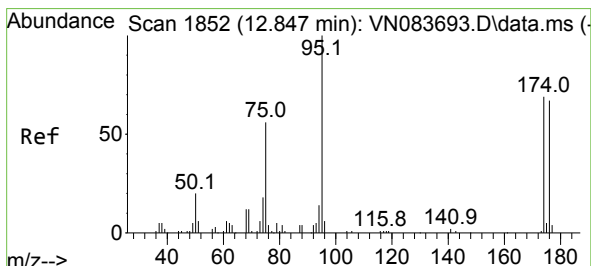
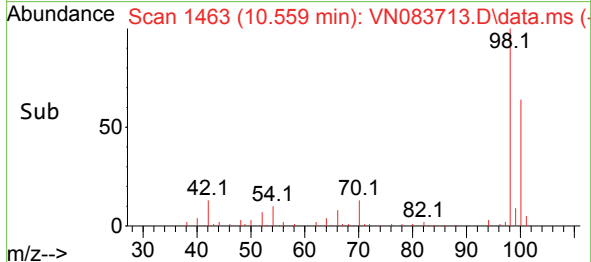
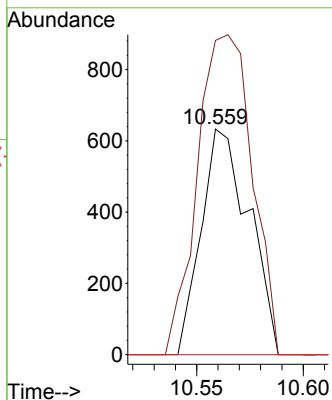
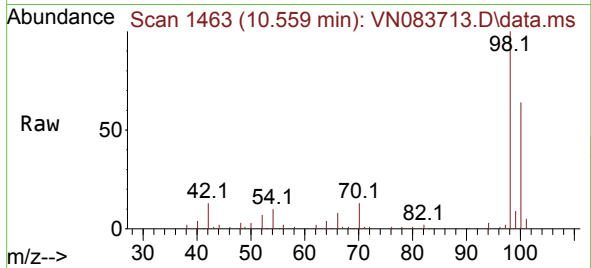




#58
 4-Methyl-2-Pentanone
 Concen: 0.496 ug/l
 RT: 10.559 min Scan# 1444
 Delta R.T. 0.112 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

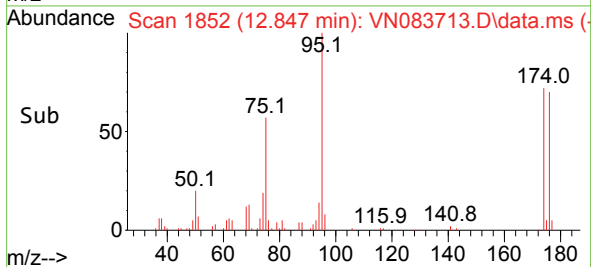
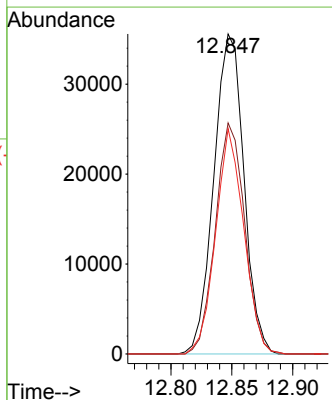
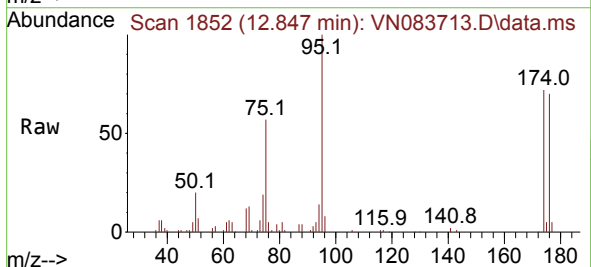
Instrument :
 MSVOA_N
 ClientSampleId :

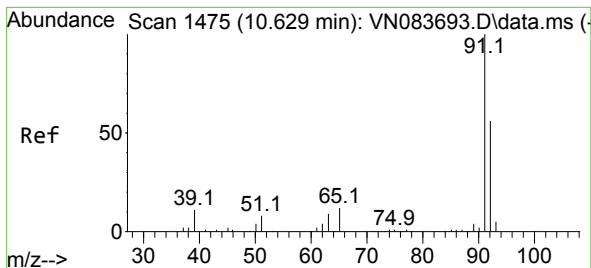
Tgt Ion: 43 Resp: 991
 Ion Ratio Lower Upper
 43 100
 58 162.5 36.5 54.7#
 85 0.0 19.5 29.3#



#60
 4-Bromofluorobenzene
 Concen: 28.185 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

Tgt Ion: 95 Resp: 61208
 Ion Ratio Lower Upper
 95 100
 174 70.4 60.5 90.7
 176 65.9 57.8 86.6





#62

Toluene

Concen: 0.565 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Instrument :

MSVOA_N

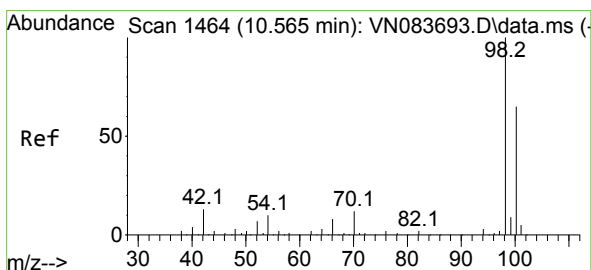
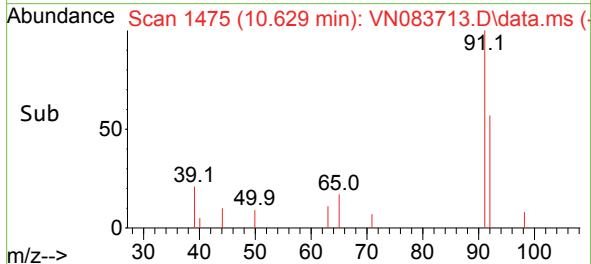
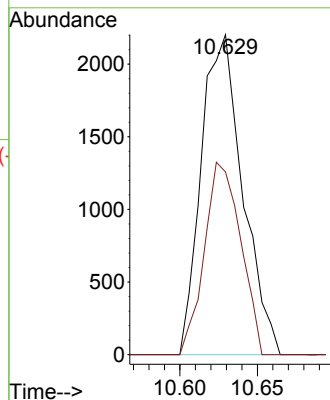
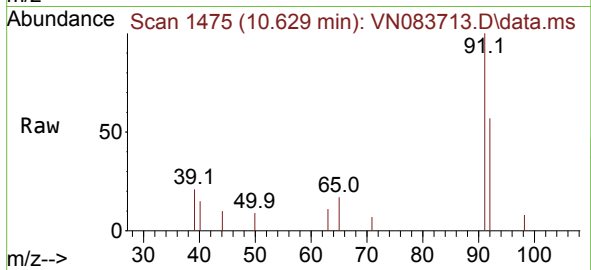
ClientSampleId :

Tgt Ion: 91 Resp: 4095

Ion Ratio Lower Upper

91 100

92 52.7 46.5 69.7



#63

Toluene-d8

Concen: 30.745 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083713.D

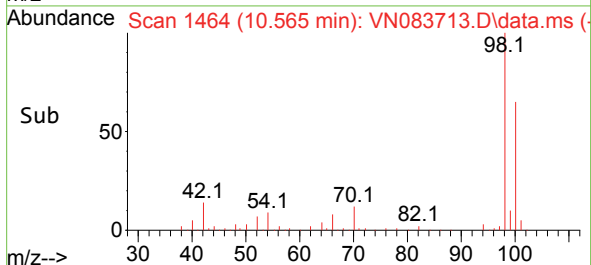
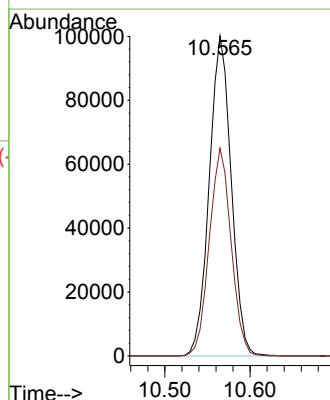
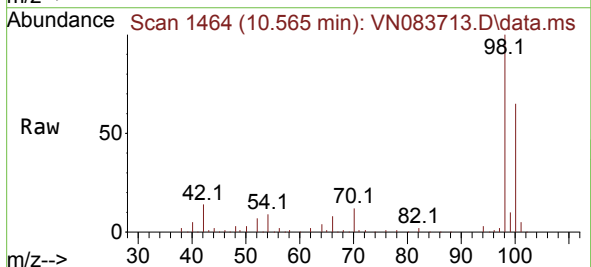
Acq: 09 Sep 2024 13:12

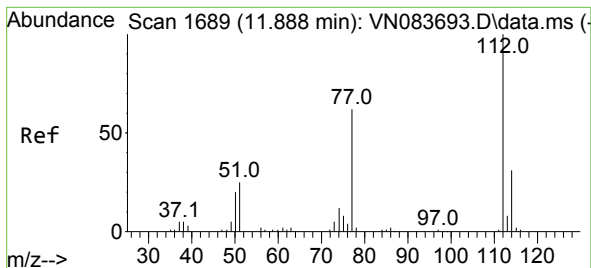
Tgt Ion: 98 Resp: 179384

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1





#64

Chlorobenzene

Concen: 0.667 ug/l

RT: 11.888 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Instrument :

MSVOA_N

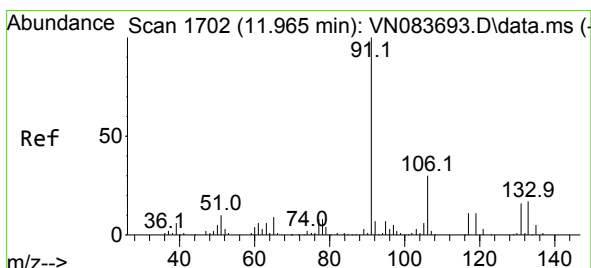
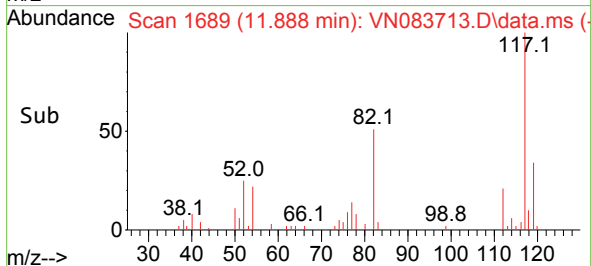
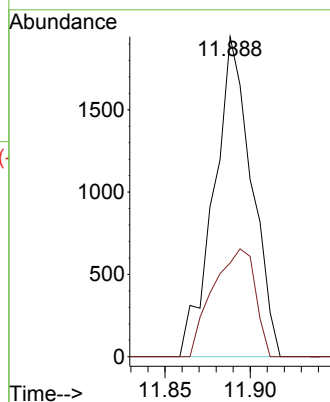
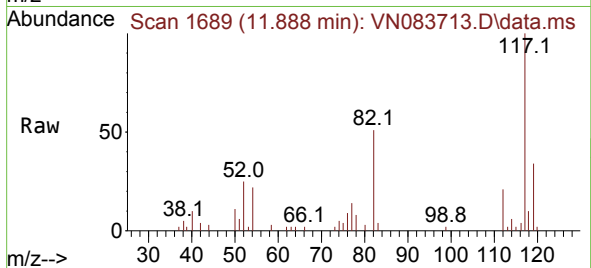
ClientSampleId :

Tgt Ion:112 Resp: 2990

Ion Ratio Lower Upper

112 100

114 29.3 26.6 39.8



#66

Ethyl Benzene

Concen: 0.791 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083713.D

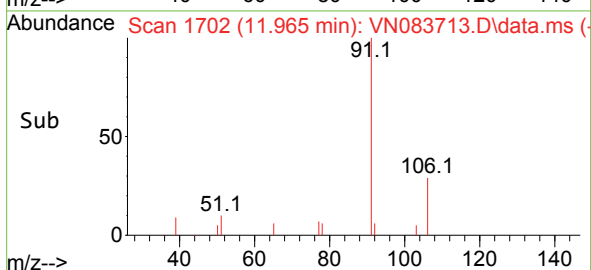
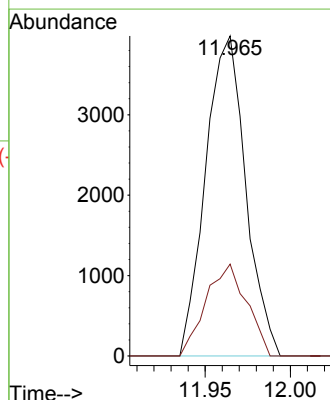
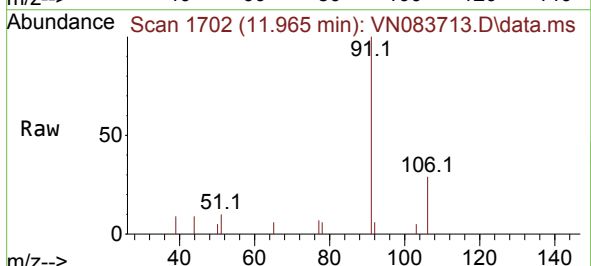
Acq: 09 Sep 2024 13:12

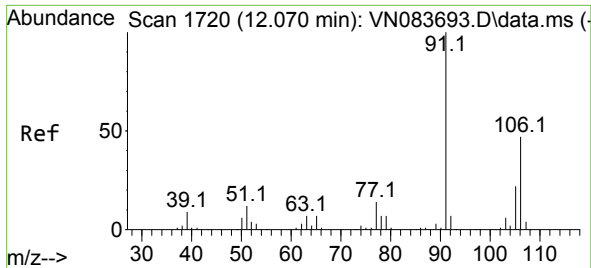
Tgt Ion: 91 Resp: 6514

Ion Ratio Lower Upper

91 100

106 28.7 24.4 36.6

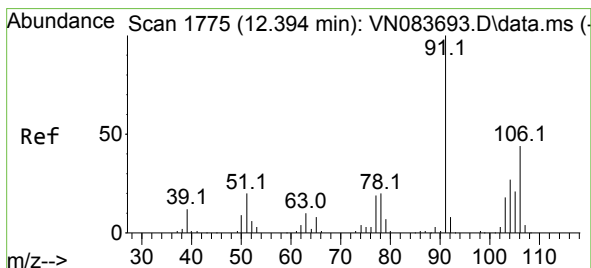
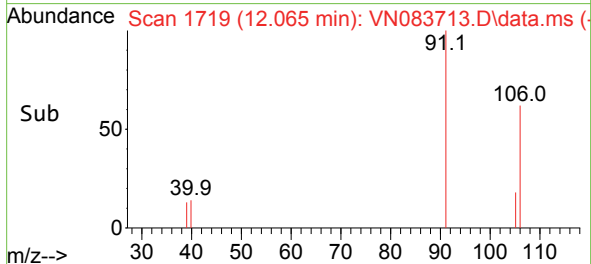
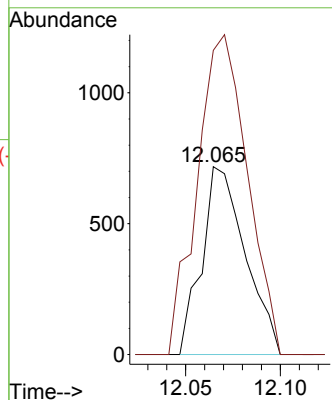
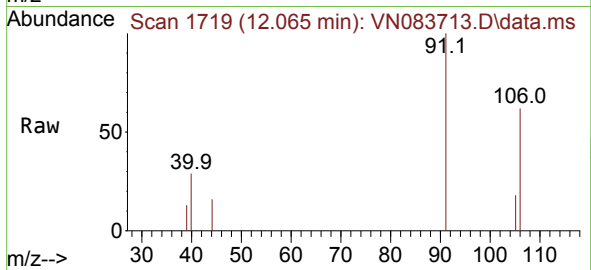




#67
m/p-Xylenes
Concen: 0.379 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

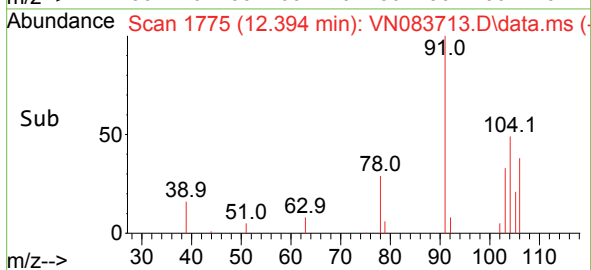
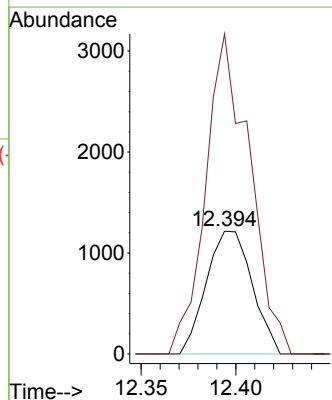
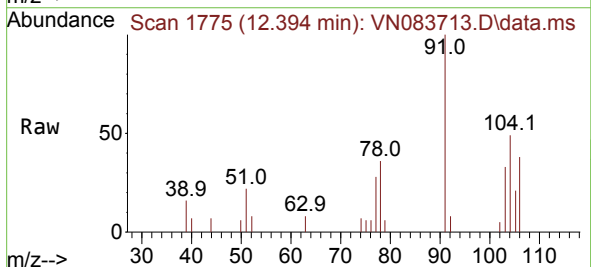
Instrument :
MSVOA_N
ClientSampleId :

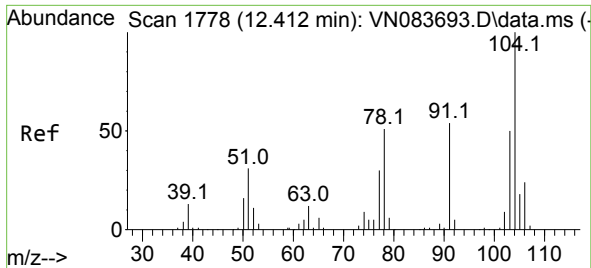
Tgt Ion:106 Resp: 1147
Ion Ratio Lower Upper
106 100
91 196.4 166.6 249.8



#68
o-Xylene
Concen: 0.698 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

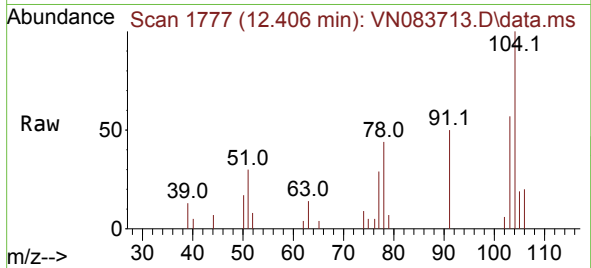
Tgt Ion:106 Resp: 2046
Ion Ratio Lower Upper
106 100
91 250.3 110.0 330.0



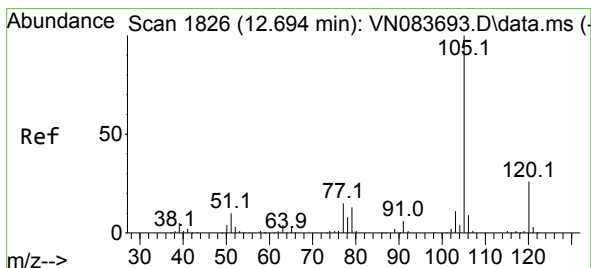
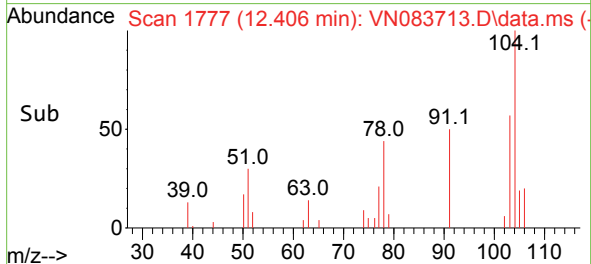
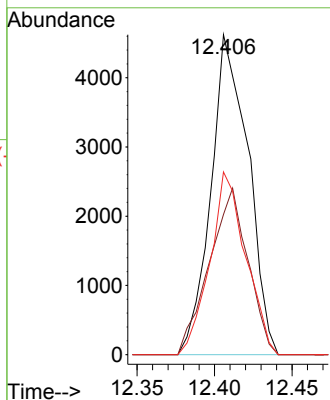


#69
Styrene
Concen: 1.556 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Instrument :
MSVOA_N
ClientSampleId :

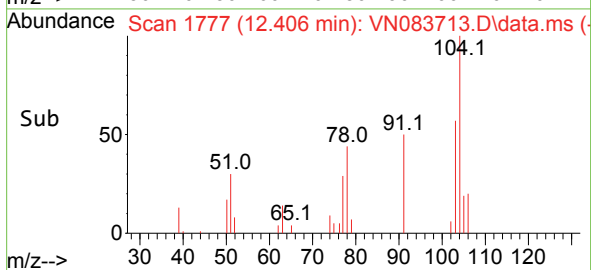
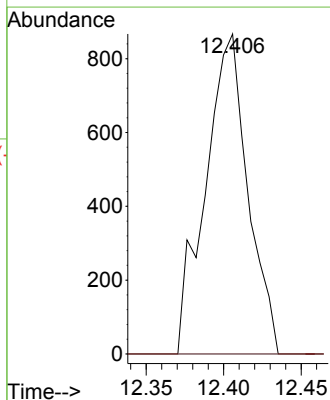
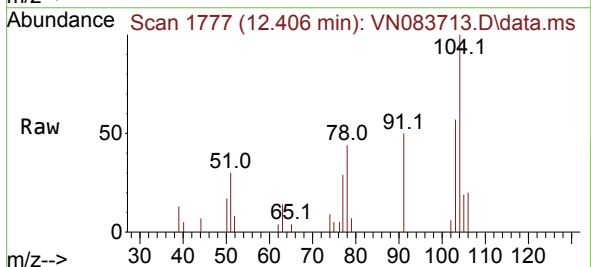


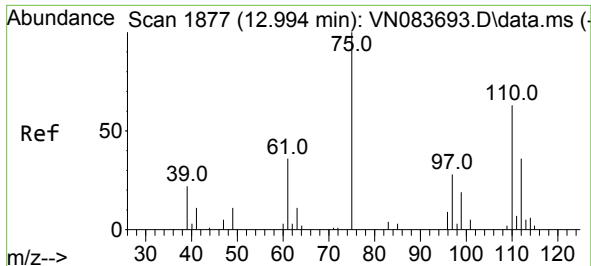
Tgt Ion:104 Resp: 7712
Ion Ratio Lower Upper
104 100
78 54.1 42.6 64.0
103 54.9 43.7 65.5



#70
Isopropylbenzene
Concen: 0.214 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.288 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Tgt Ion:105 Resp: 1653
Ion Ratio Lower Upper
105 100
120 0.0 17.8 33.1#

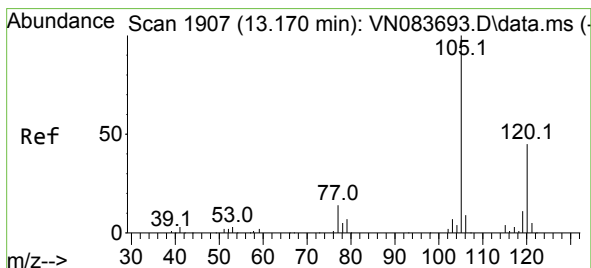
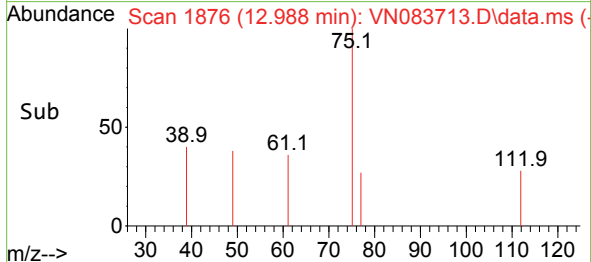
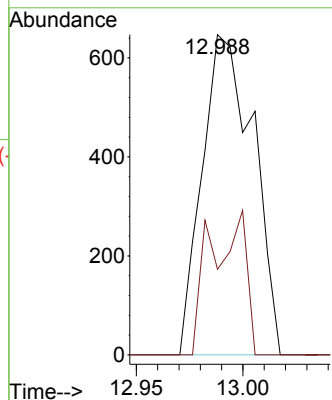
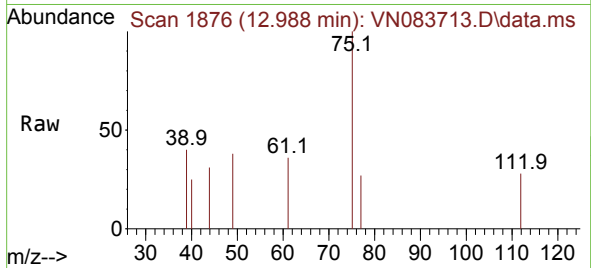




#72
1,2,3-Trichloropropane
Concen: 0.582 ug/l
RT: 12.988 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

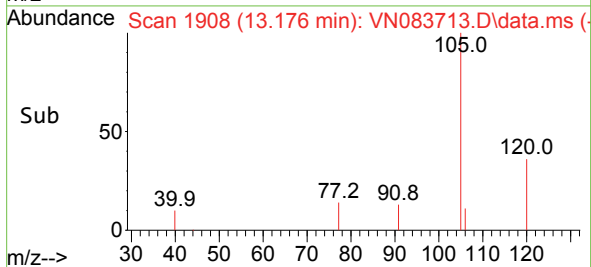
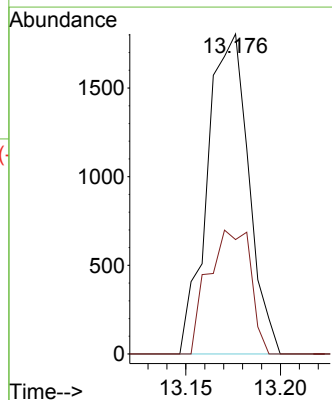
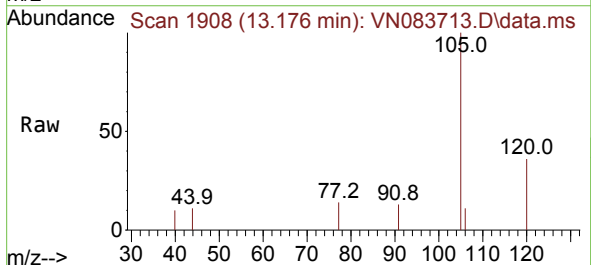
Instrument :
MSVOA_N
ClientSampleId :

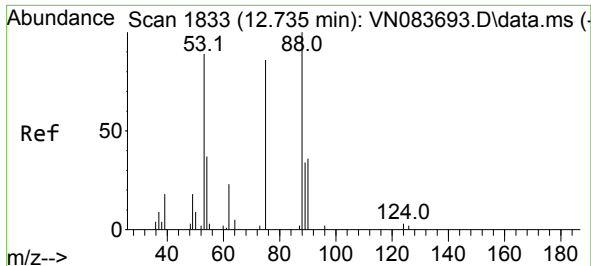
Tgt Ion: 75 Resp: 1078
Ion Ratio Lower Upper
75 100
77 14.6 0.0 367.6



#76
1,3,5-Trimethylbenzene
Concen: 0.423 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Tgt Ion: 105 Resp: 2735
Ion Ratio Lower Upper
105 100
120 39.9 0.0 95.8

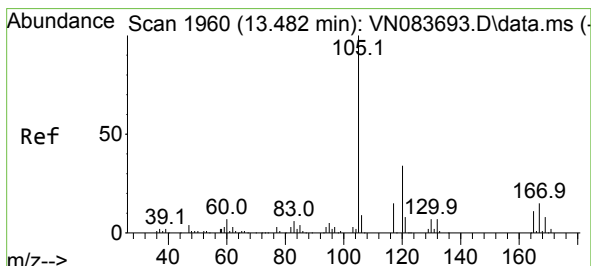
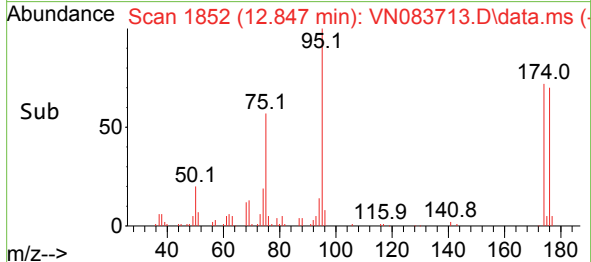
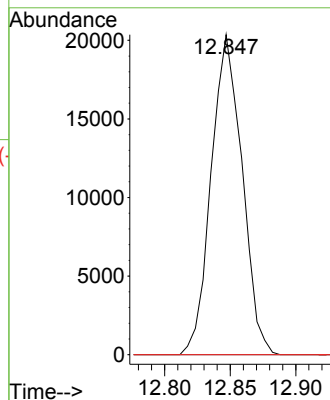
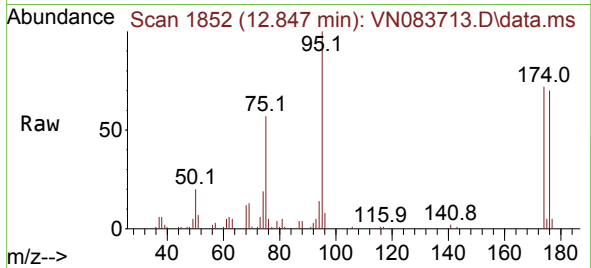




#77
 t-1,4-Dichloro-2-butene
 Concen: 42.632 ug/l
 RT: 12.847 min Scan# 1833
 Delta R.T. 0.112 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

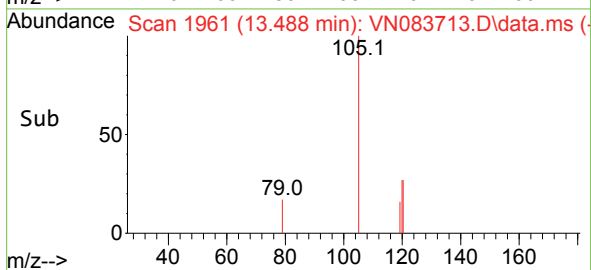
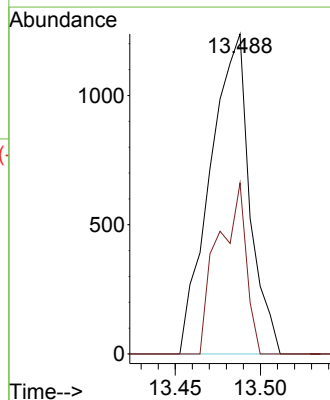
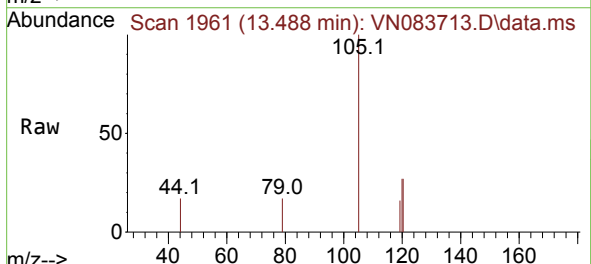
Instrument :
 MSVOA_N
 ClientSampleId :

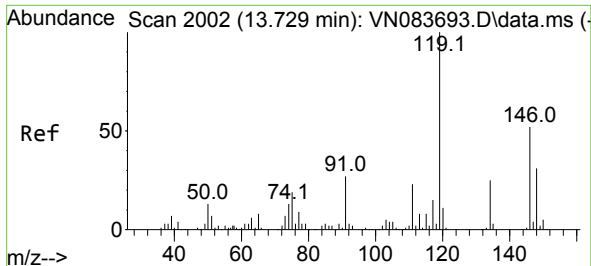
Tgt Ion: 75 Resp: 33396
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#



#80
 1,2,4-Trimethylbenzene
 Concen: 0.306 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.006 min
 Lab File: VN083713.D
 Acq: 09 Sep 2024 13:12

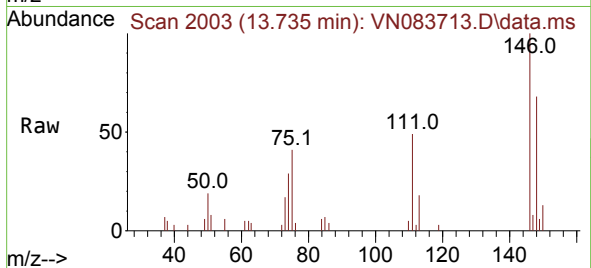
Tgt Ion: 105 Resp: 2000
 Ion Ratio Lower Upper
 105 100
 120 15.2 0.0 86.8



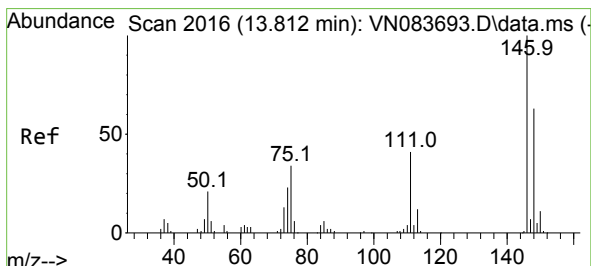
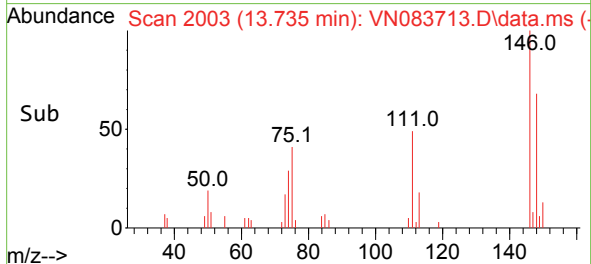
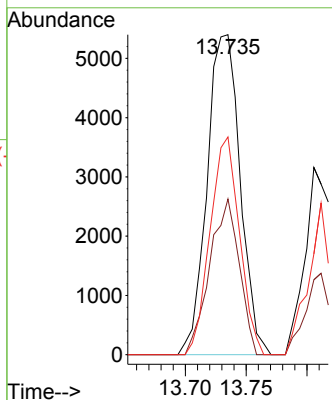


#83
1,3-Dichlorobenzene
Concen: 2.986 ug/l
RT: 13.735 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Instrument :
MSVOA_N
ClientSampleId :

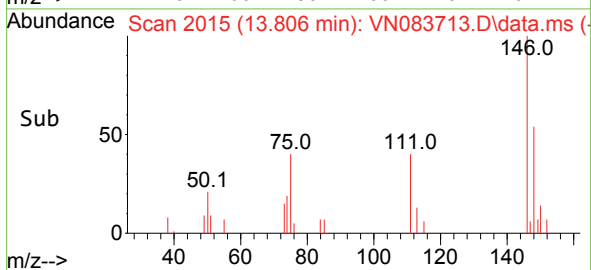
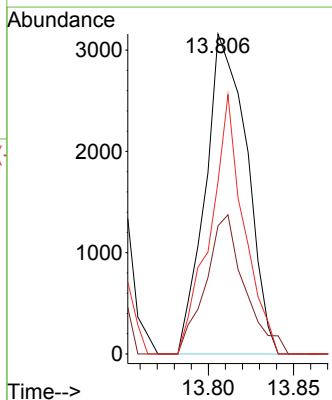
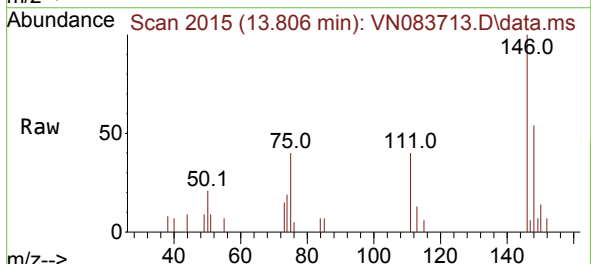


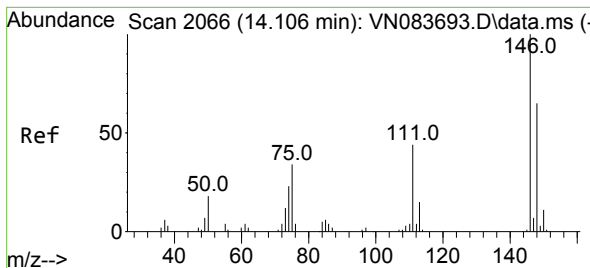
Tgt Ion:146 Resp: 10217
Ion Ratio Lower Upper
146 100
111 43.4 22.4 67.0
148 60.6 32.1 96.5



#84
1,4-Dichlorobenzene
Concen: 1.563 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Tgt Ion:146 Resp: 5347
Ion Ratio Lower Upper
146 100
111 40.9 21.3 63.9
148 65.9 31.9 95.5





#87

1,2-Dichlorobenzene

Concen: 0.495 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

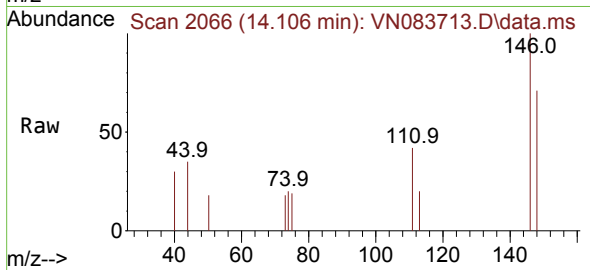
Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

Instrument :

MSVOA_N

ClientSampleId :



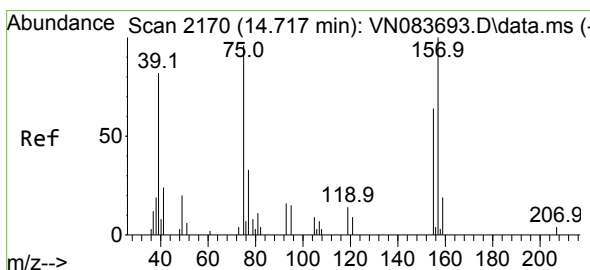
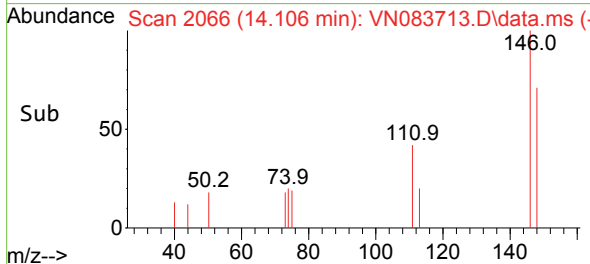
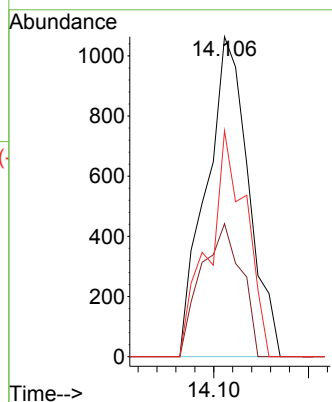
Tgt Ion:146 Resp: 1645

Ion Ratio Lower Upper

146 100

111 39.8 22.6 67.8

148 43.5 31.3 93.8



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.016 ug/l

RT: 14.711 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VN083713.D

Acq: 09 Sep 2024 13:12

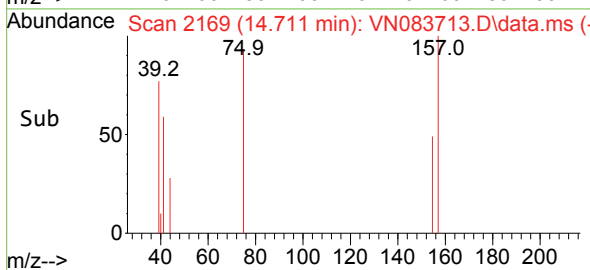
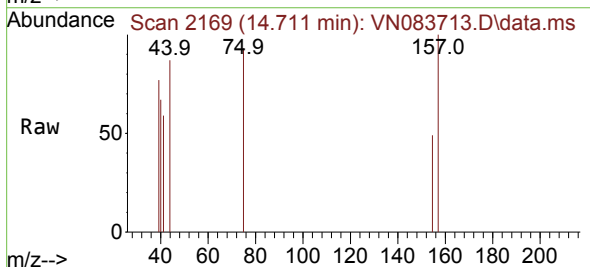
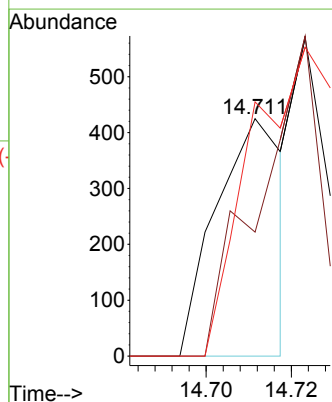
Tgt Ion: 75 Resp: 472

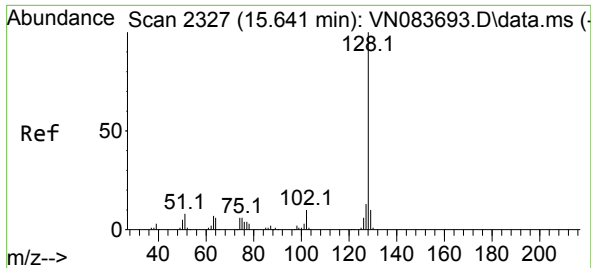
Ion Ratio Lower Upper

75 100

155 0.0 61.7 92.5#

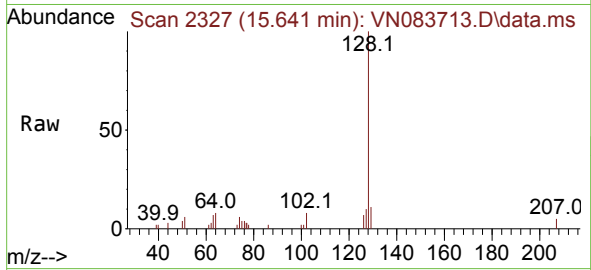
157 0.0 83.6 125.4#





#91
Naphthalene
Concen: 3.031 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN083713.D
Acq: 09 Sep 2024 13:12

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	18023
Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.6	16.0
129	10.0	8.6	13.0

