

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087659.D
 Acq On : 25 Aug 2025 15:43
 Operator : JC\MD
 Sample : Q2921-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 26 01:37:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

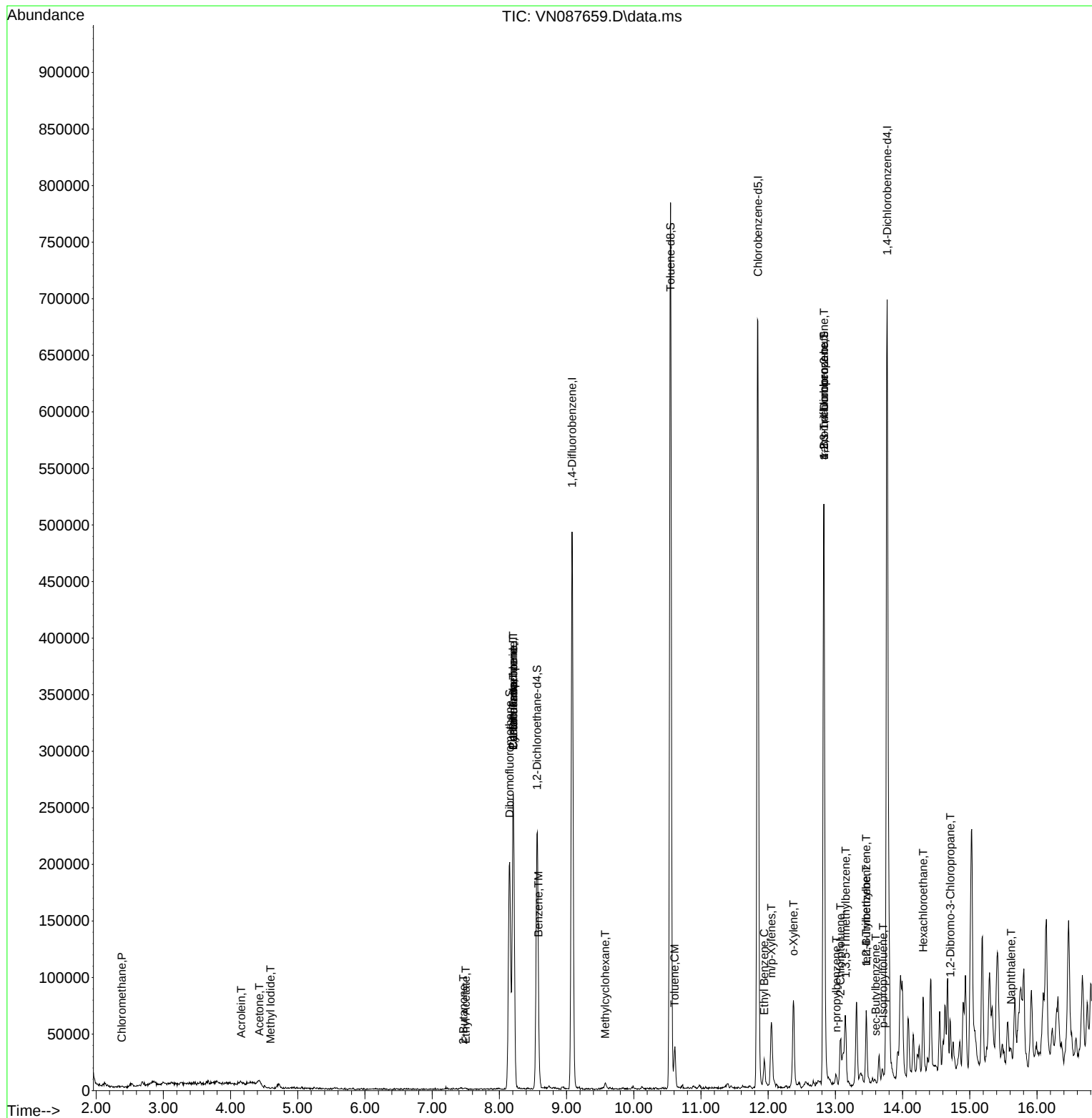
Internal Standards						
1) Pentafluorobenzene	8.206	168	169994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	395366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	375883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	178142	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	191473	54.974	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.940%			
35) Dibromofluoromethane	8.153	113	143243	50.181	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.360%			
50) Toluene-d8	10.547	98	512701	47.988	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.980%			
62) 4-Bromofluorobenzene	12.829	95	181471	47.761	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.520%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1375	0.554	ug/l	92
10) Methyl Iodide	4.595	142	59	6.839	ug/l #	38
13) Acrolein	4.159	56	293	0.394	ug/l #	1
16) Acetone	4.430	43	8448	4.456	ug/l #	67
20) Methylene Chloride	5.265	84	123	Below Cal	#	65
25) 2-Butanone	7.465	43	742	0.297	ug/l #	50
31) Cyclohexane	8.206	56	5030	1.148	ug/l #	28
36) 1,1-Dichloropropene	8.206	75	17038	3.891	ug/l #	50
37) Ethyl Acetate	7.500	43	1289	0.215	ug/l #	72
38) Carbon Tetrachloride	8.206	117	21965	5.080	ug/l #	14
39) Methylcyclohexane	9.577	83	2141	0.444	ug/l #	59
40) Benzene	8.583	78	3245	0.242	ug/l #	67
52) Toluene	10.606	92	14874	1.786	ug/l	89
67) Ethyl Benzene	11.941	91	14504	0.896	ug/l #	85
68) m/p-Xylenes	12.047	106	17688	2.979	ug/l	99
69) o-Xylene	12.376	106	21756	3.739	ug/l	96
76) 1,2,3-Trichloropropane	12.829	75	107603	25.758	ug/l #	1
78) n-propylbenzene	13.018	91	6367	0.359	ug/l	100
79) 2-Chlorotoluene	13.076	91	6499	0.609	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.153	105	26530	2.173	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.829	75	107603	68.190	ug/l #	1
83) tert-Butylbenzene	13.459	119	4876	0.479	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.459	105	35962	2.942	ug/l	100
85) sec-Butylbenzene	13.600	105	3175	0.210	ug/l	80
86) p-Isopropyltoluene	13.712	119	3560	0.285	ug/l	79
90) Hexachloroethane	14.306	117	3687	1.552	ug/l #	22
92) 1,2-Dibromo-3-Chloropr...	14.712	75	365	0.310	ug/l #	8
95) Naphthalene	15.617	128	14885	1.104	ug/l #	95

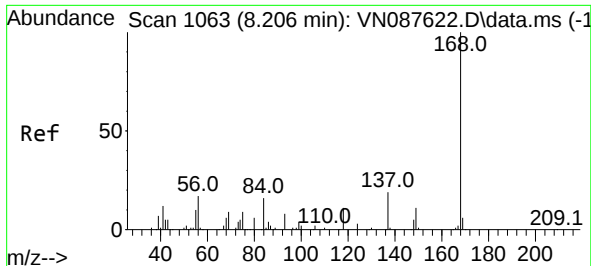
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

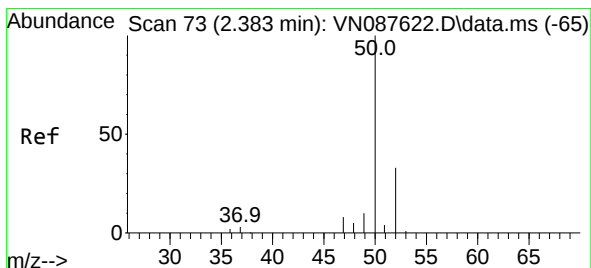
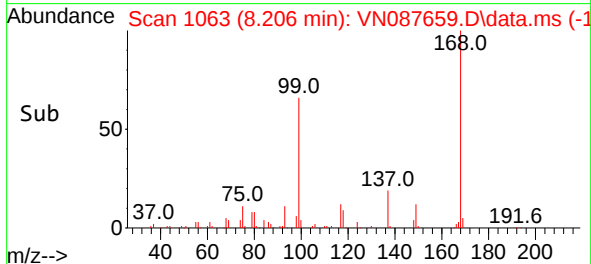
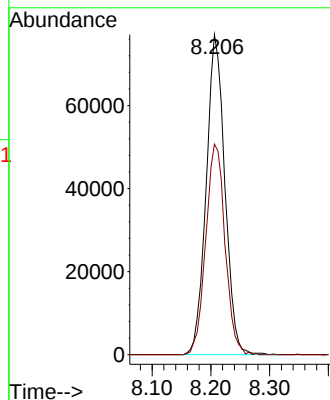
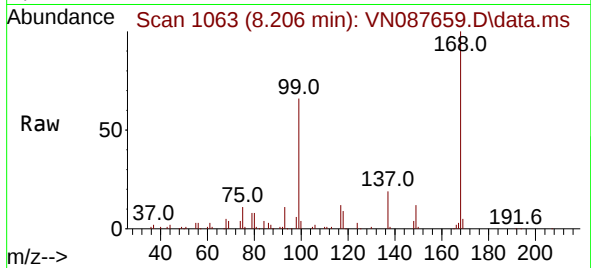




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

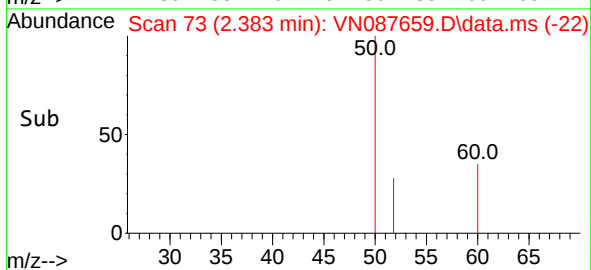
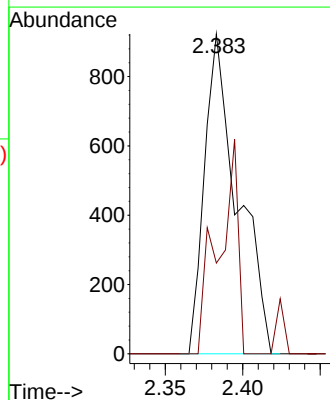
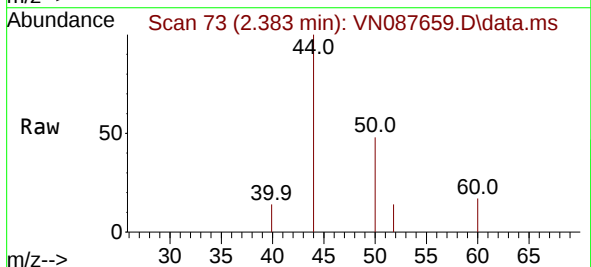
Instrument :
MSVOA_N
ClientSampleId :

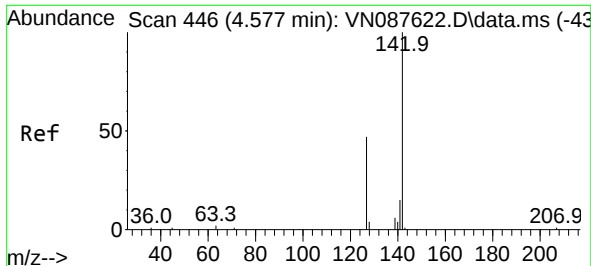
Tgt Ion:168 Resp: 169994
Ion Ratio Lower Upper
168 100
99 65.8 57.2 85.8



#3
Chloromethane
Concen: 0.554 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

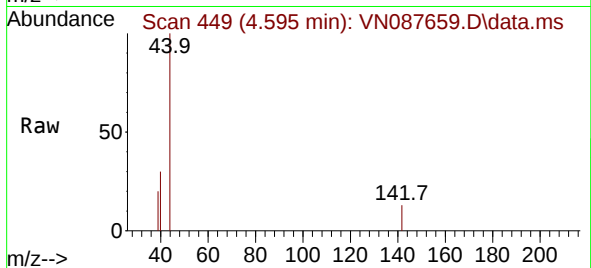
Tgt Ion: 50 Resp: 1375
Ion Ratio Lower Upper
50 100
52 28.4 26.2 39.4



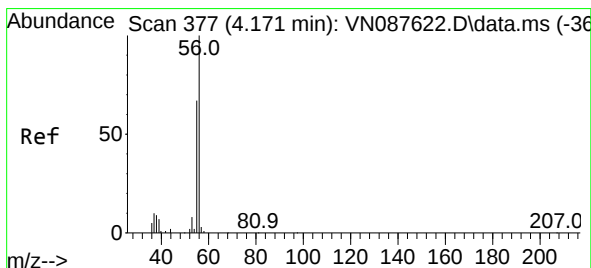
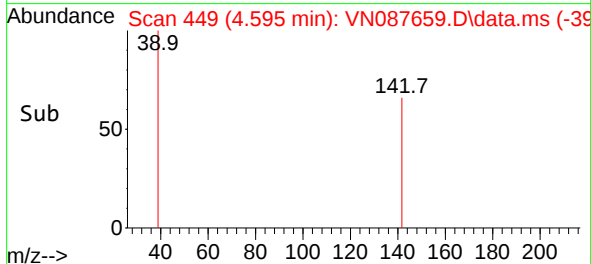
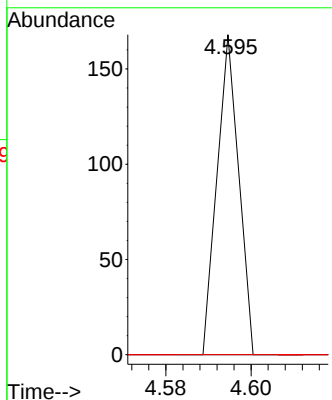


#10
Methyl Iodide
Concen: 6.839 ug/l
RT: 4.595 min Scan# 446
Delta R.T. 0.018 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :

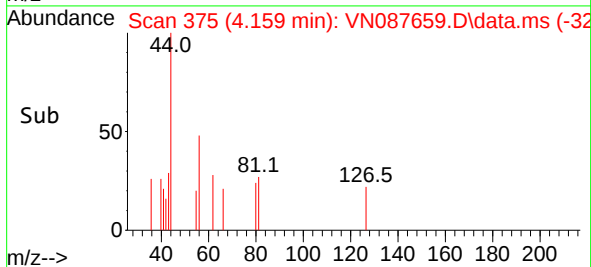
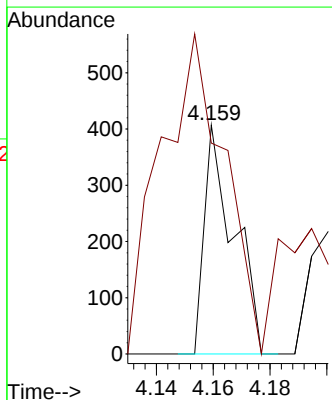
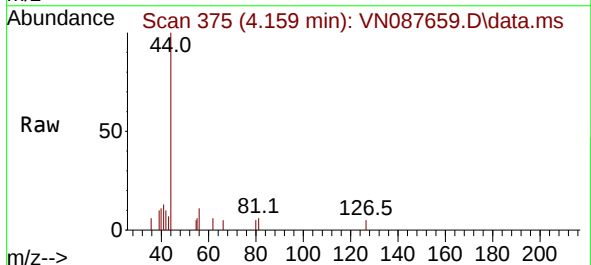


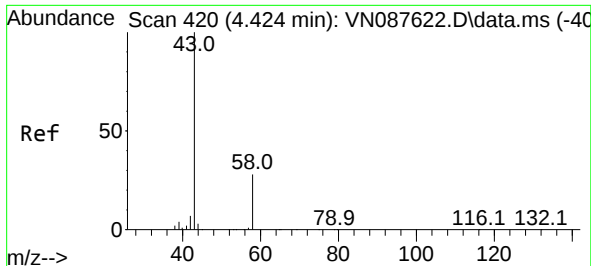
Tgt Ion:142 Resp: 59
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.394 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.012 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 304.1 57.3 85.9#

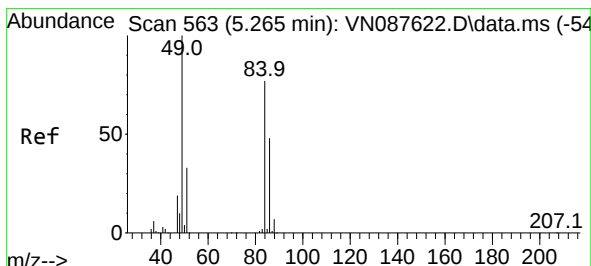
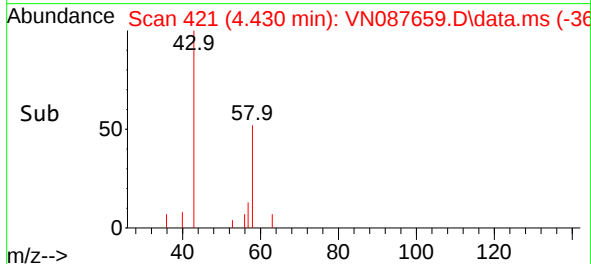
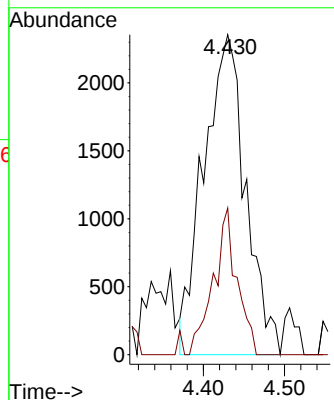
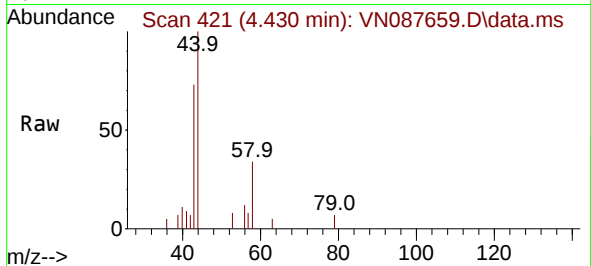




#16
Acetone
Concen: 4.456 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

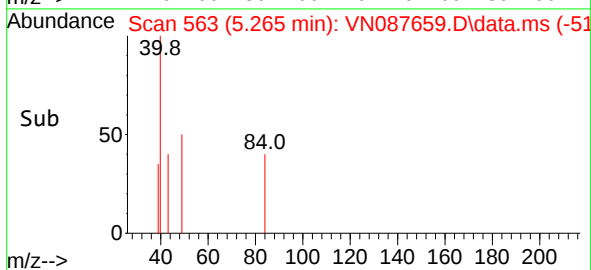
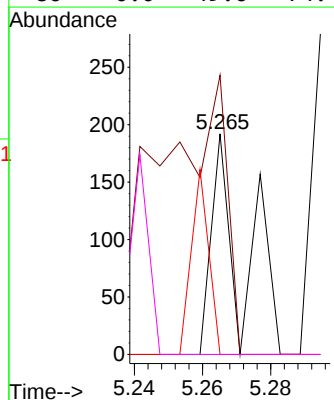
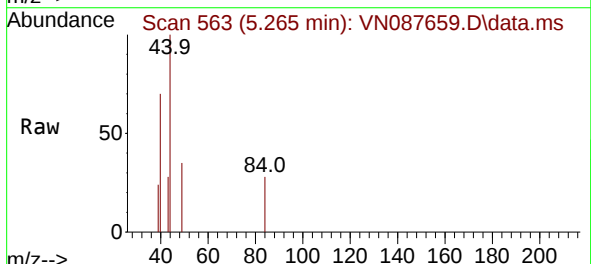
Instrument :
MSVOA_N
ClientSampleId :

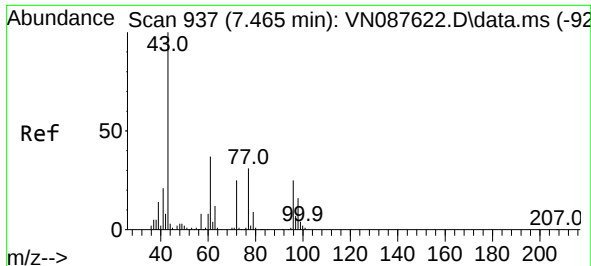
Tgt Ion: 43 Resp: 8448
Ion Ratio Lower Upper
43 100
58 45.9 22.6 33.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

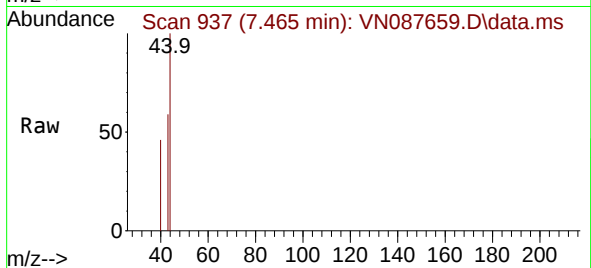
Tgt Ion: 84 Resp: 123
Ion Ratio Lower Upper
84 100
49 126.6 103.4 155.2
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#



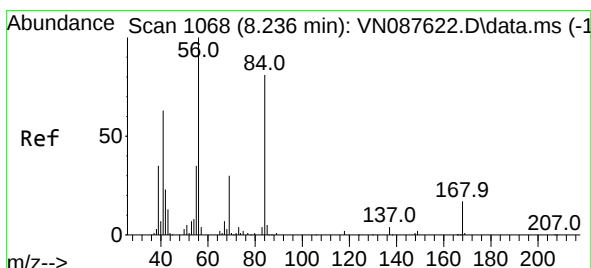
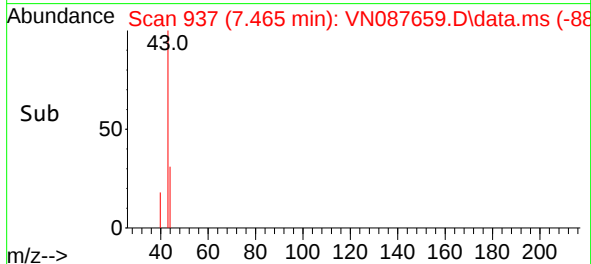
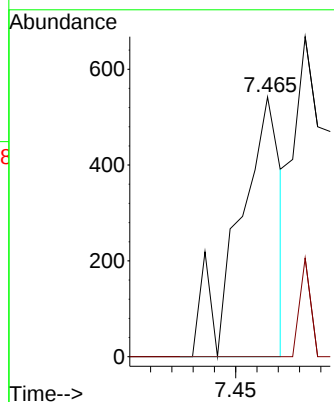


#25
2-Butanone
Concen: 0.297 ug/l
RT: 7.465 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :

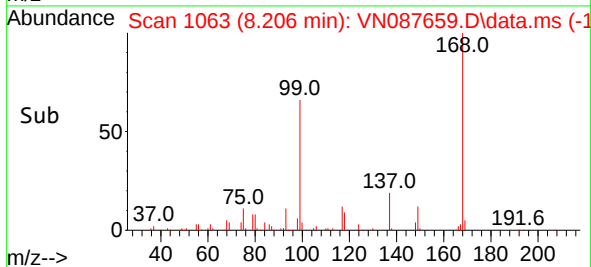
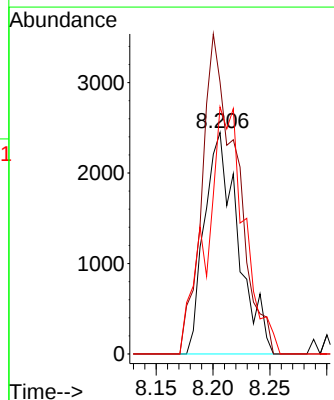
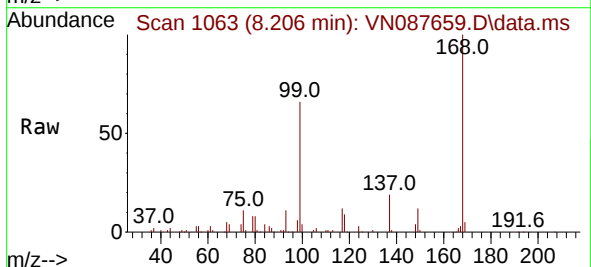


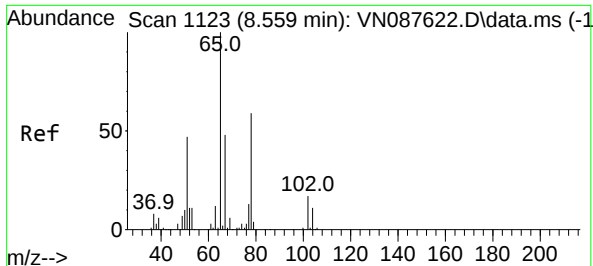
Tgt Ion: 43 Resp: 742
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.148 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 56 Resp: 5030
Ion Ratio Lower Upper
56 100
69 122.8 23.7 35.5#
84 111.6 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 54.974 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Instrument :

MSVOA_N

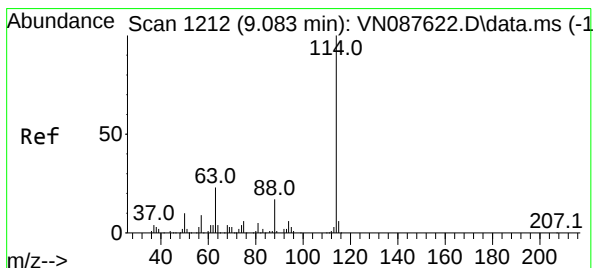
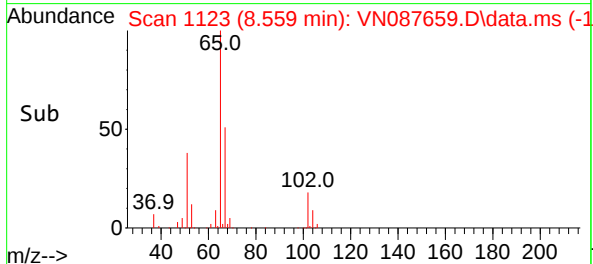
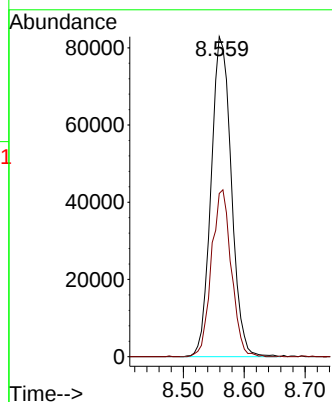
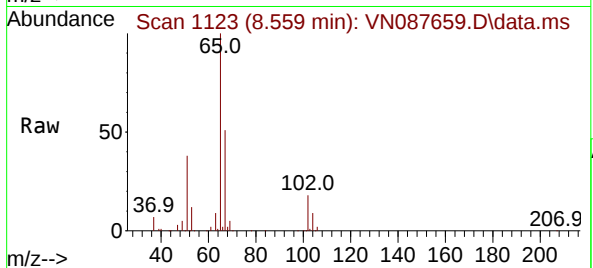
ClientSampleId :

Tgt Ion: 65 Resp: 191473

Ion Ratio Lower Upper

65 100

67 51.1 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

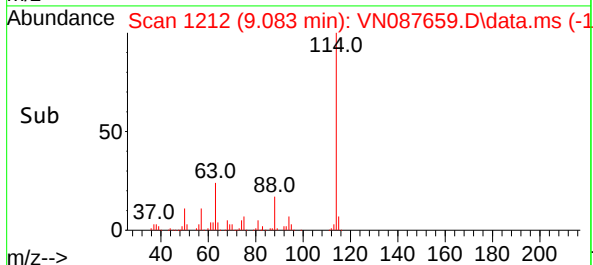
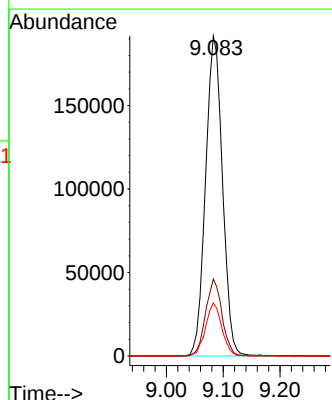
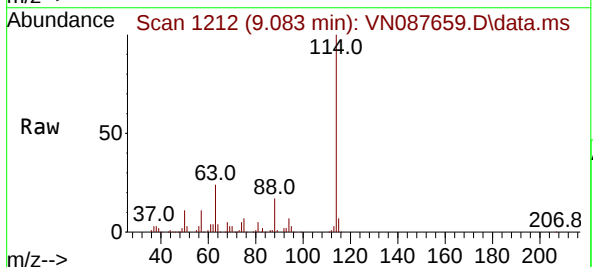
Tgt Ion: 114 Resp: 395366

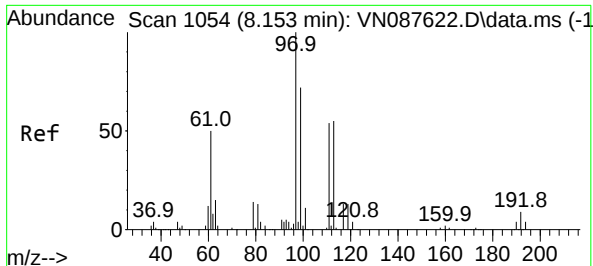
Ion Ratio Lower Upper

114 100

63 24.0 0.0 45.2

88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.181 ug/l

RT: 8.153 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

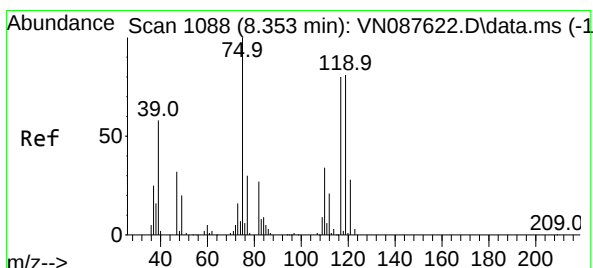
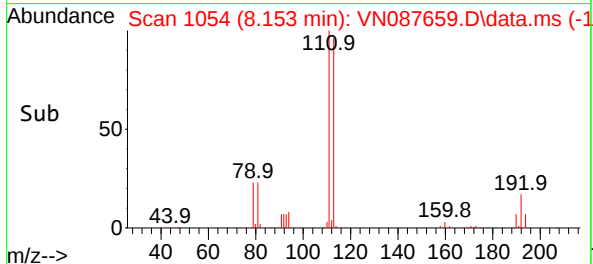
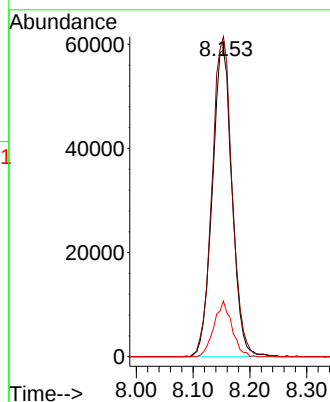
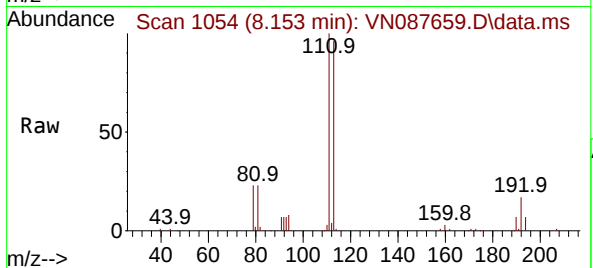
Tgt Ion:113 Resp: 143243

Ion Ratio Lower Upper

113 100

111 104.8 82.8 124.2

192 16.3 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.891 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

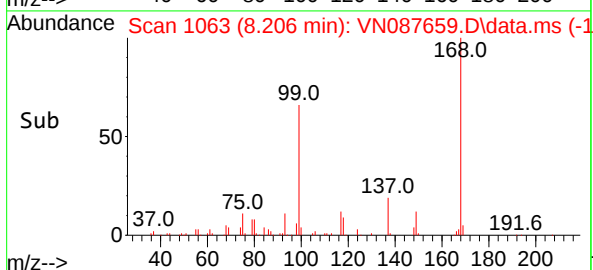
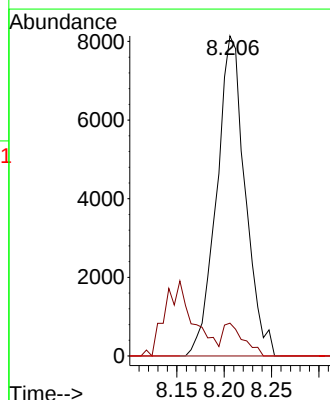
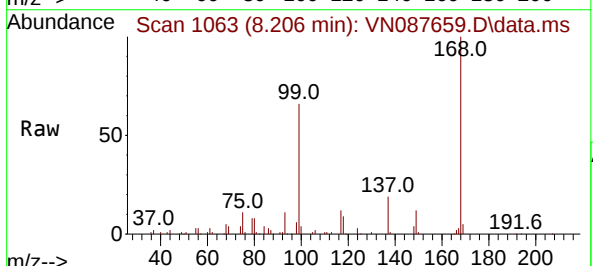
Tgt Ion: 75 Resp: 17038

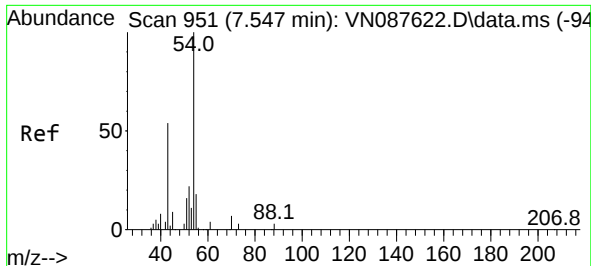
Ion Ratio Lower Upper

75 100

110 7.3 15.9 47.6#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.215 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.047 min

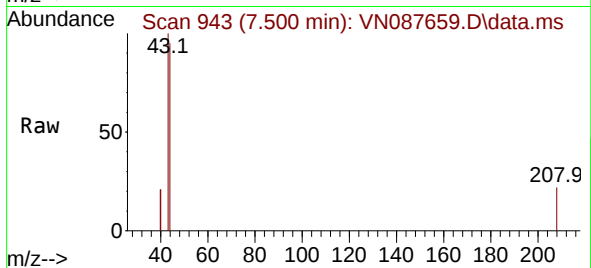
Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

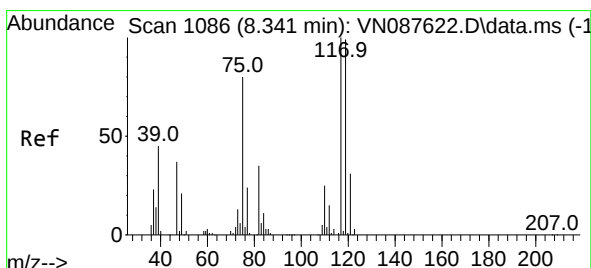
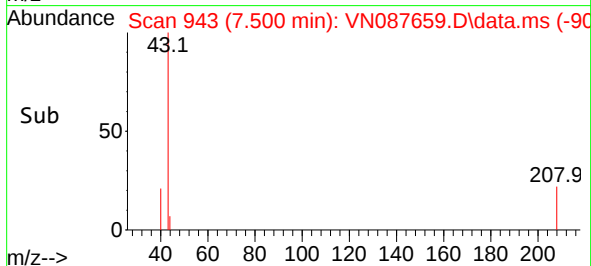
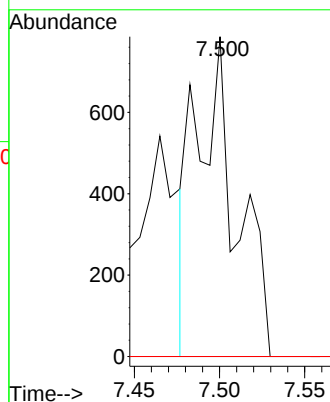
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	1289
Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.3	13.9#
70	0.0	7.0	10.6#



#38

Carbon Tetrachloride

Concen: 5.080 ug/l

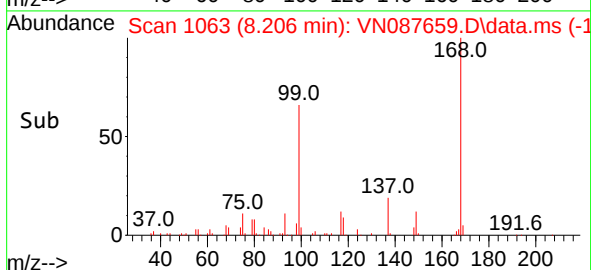
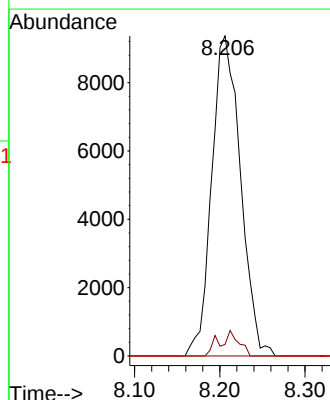
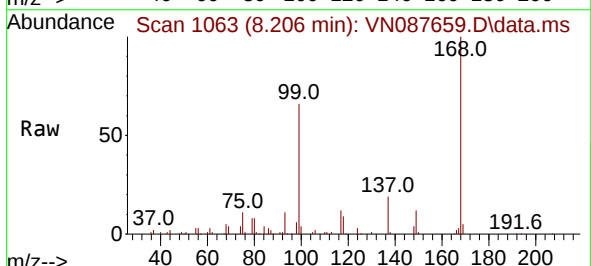
RT: 8.206 min Scan# 1063

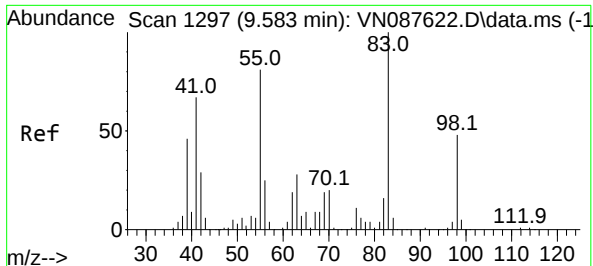
Delta R.T. -0.135 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Tgt Ion:	117	Resp:	21965
Ion	Ratio	Lower	Upper
117	100		
119	3.6	79.0	118.6#
121	0.0	25.0	37.6#

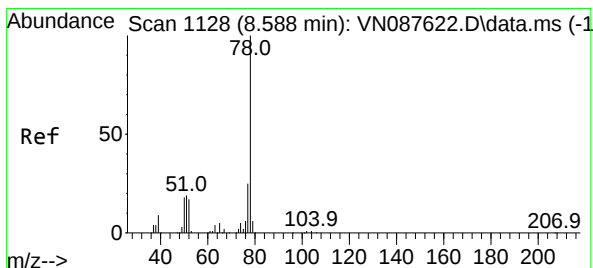
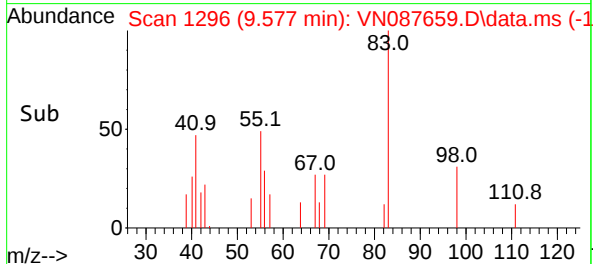
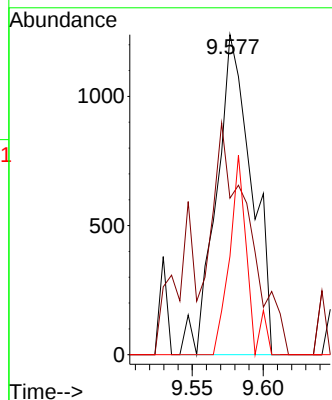
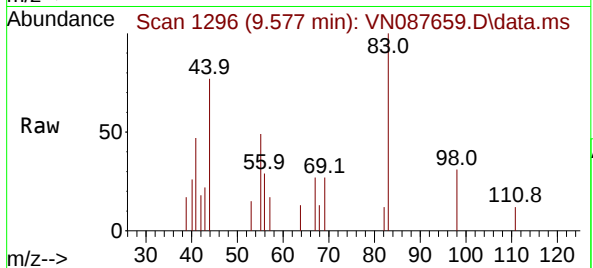




#39
Methylcyclohexane
Concen: 0.444 ug/l
RT: 9.577 min Scan# 1129
Delta R.T. -0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

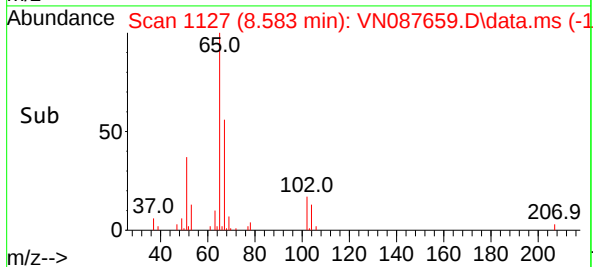
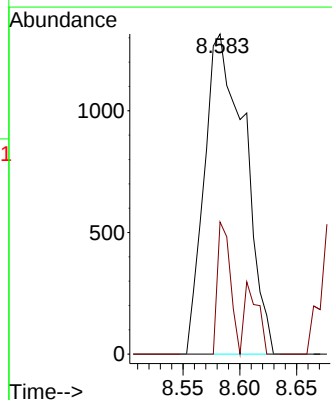
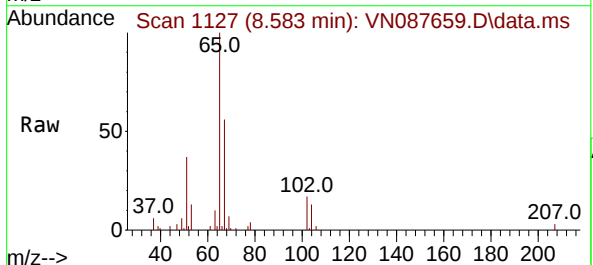
Instrument :
MSVOA_N
ClientSampleId :

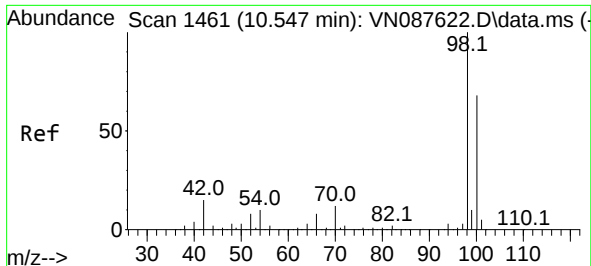
Tgt Ion: 83 Resp: 2141
Ion Ratio Lower Upper
83 100
55 36.1 64.6 96.8#
98 30.8 38.4 57.6#



#40
Benzene
Concen: 0.242 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 78 Resp: 3245
Ion Ratio Lower Upper
78 100
77 41.3 19.7 29.5#

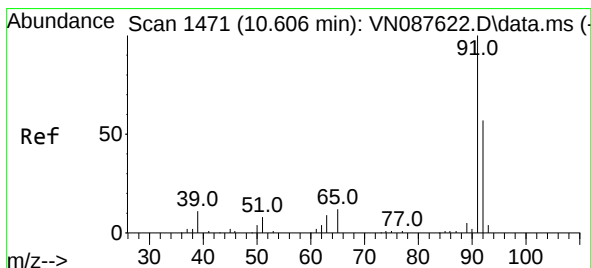
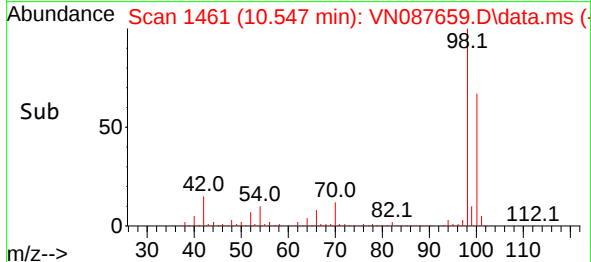
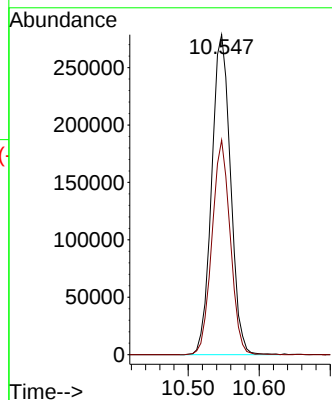
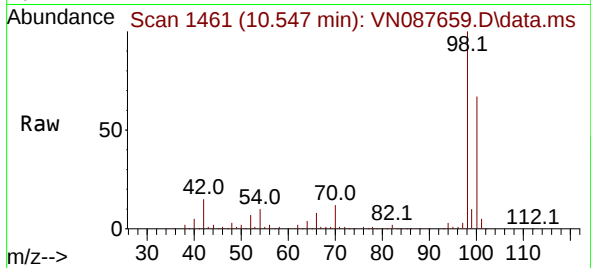




#50
Toluene-d8
Concen: 47.988 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

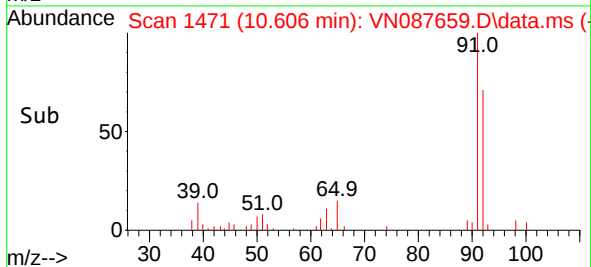
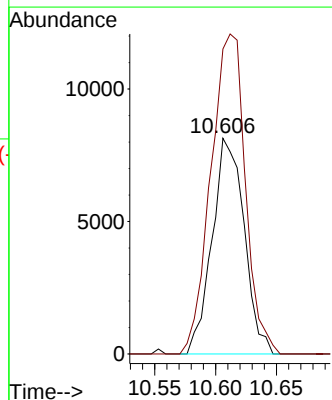
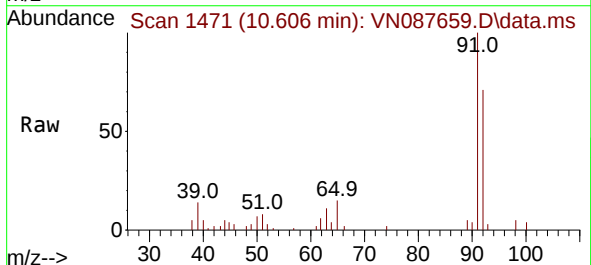
Instrument :
MSVOA_N
ClientSampleId :

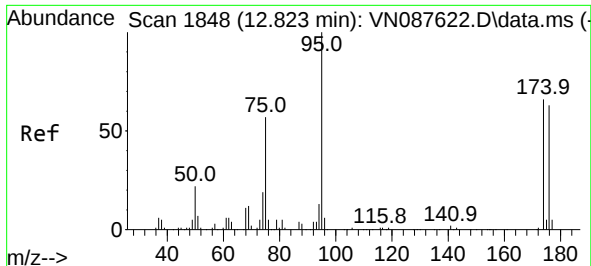
Tgt Ion: 98 Resp: 512701
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2



#52
Toluene
Concen: 1.786 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 92 Resp: 14874
Ion Ratio Lower Upper
92 100
91 160.2 140.4 210.6

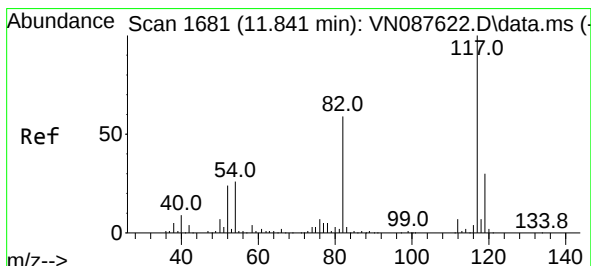
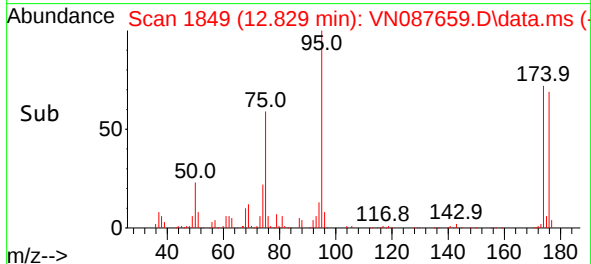
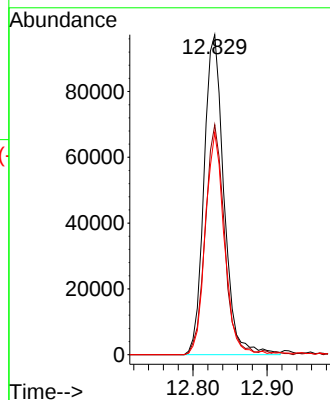
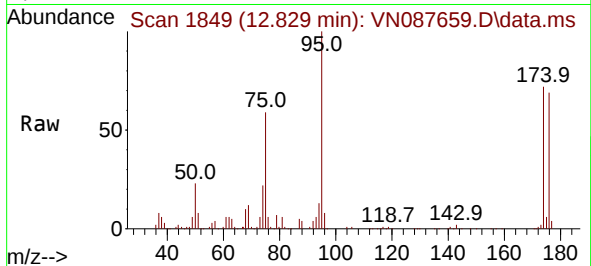




#62
4-Bromofluorobenzene
Concen: 47.761 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

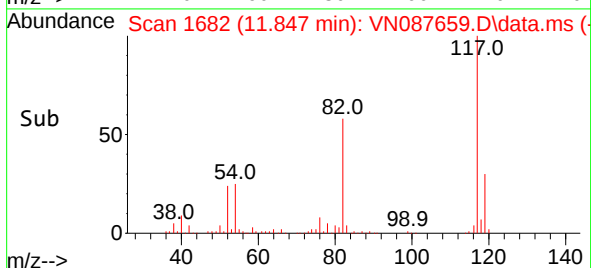
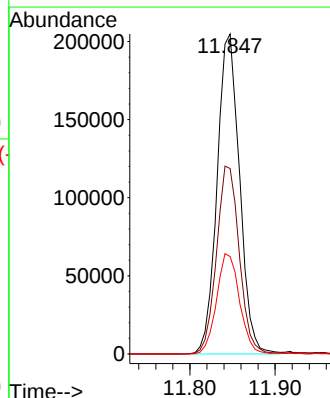
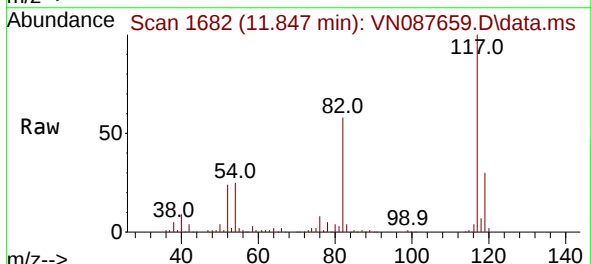
Instrument :
MSVOA_N
ClientSampleId :

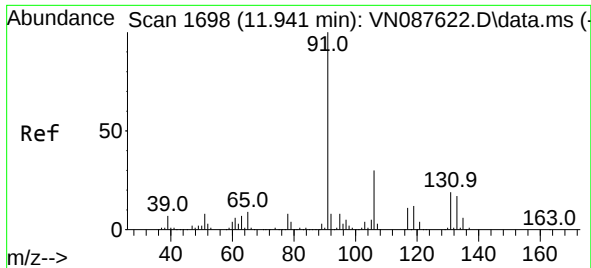
Tgt Ion: 95 Resp: 181471
Ion Ratio Lower Upper
95 100
174 69.0 0.0 138.4
176 66.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 117 Resp: 375883
Ion Ratio Lower Upper
117 100
82 57.9 47.4 71.2
119 30.5 24.3 36.5

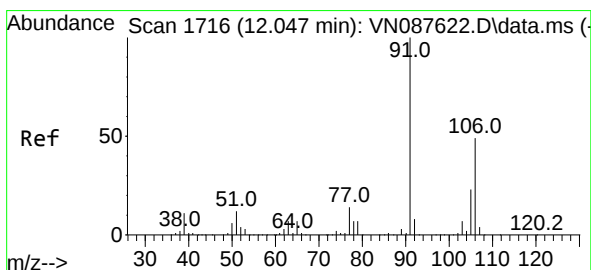
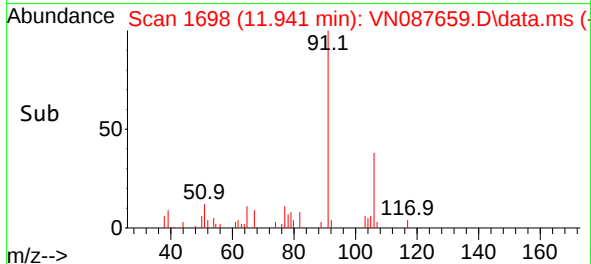
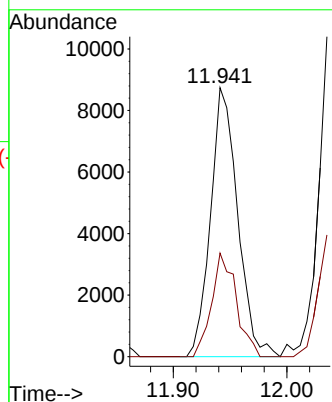
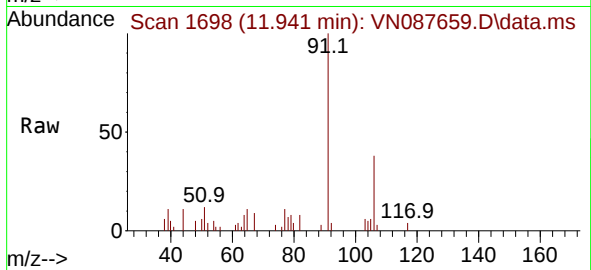




#67
Ethyl Benzene
Concen: 0.896 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

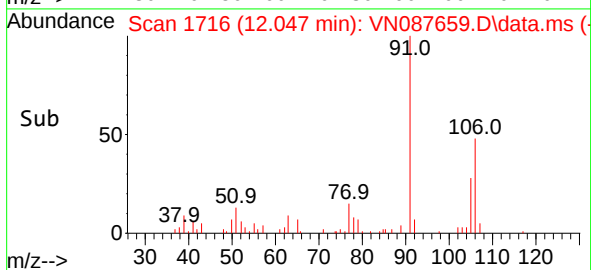
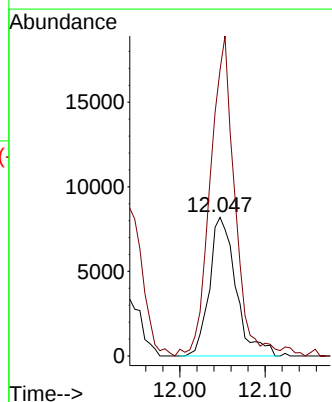
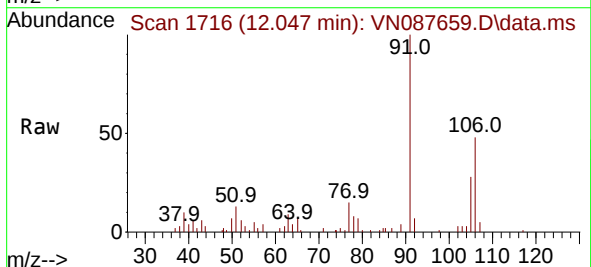
Instrument :
MSVOA_N
ClientSampleId :

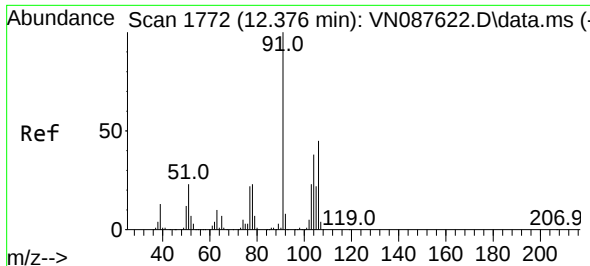
Tgt Ion: 91 Resp: 14504
Ion Ratio Lower Upper
91 100
106 38.5 24.1 36.1#



#68
m/p-Xylenes
Concen: 2.979 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 106 Resp: 17688
Ion Ratio Lower Upper
106 100
91 213.3 169.3 253.9

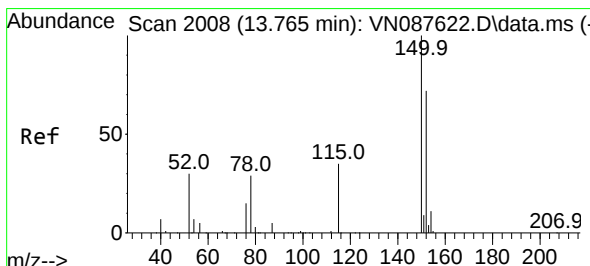
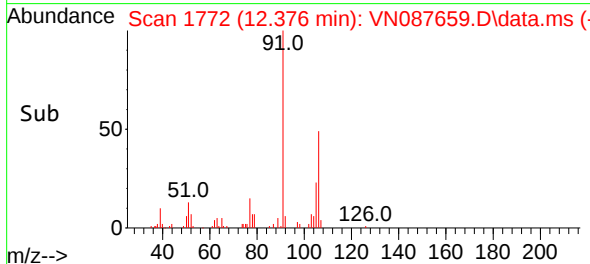
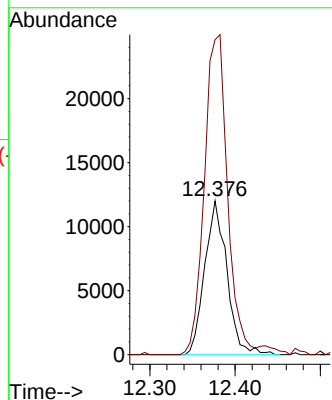
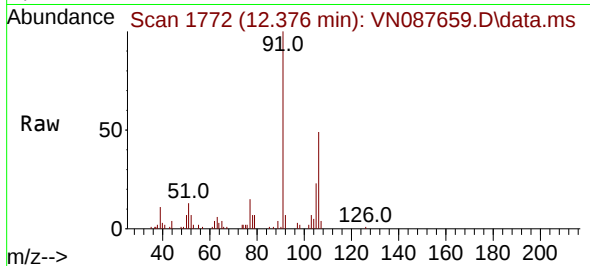




#69
o-Xylene
Concen: 3.739 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

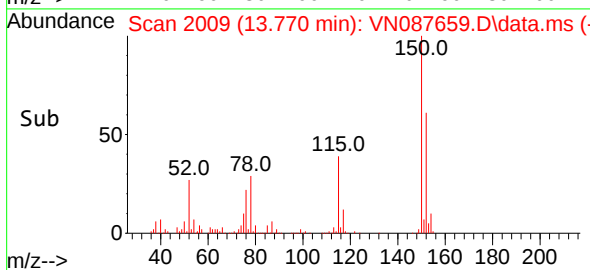
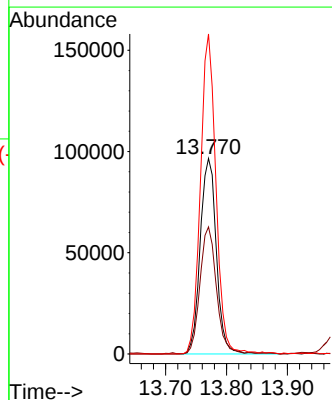
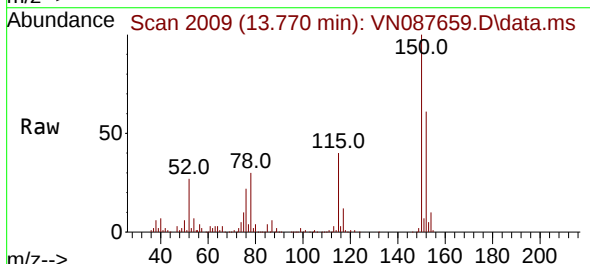
Instrument :
MSVOA_N
ClientSampleId :

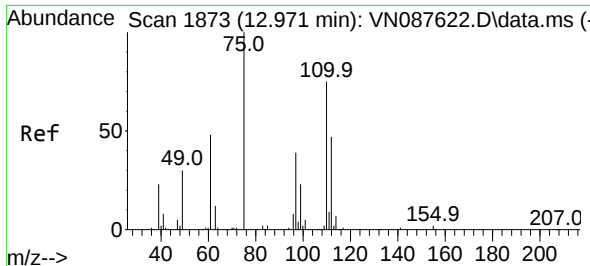
Tgt Ion:106 Resp: 21756
Ion Ratio Lower Upper
106 100
91 216.7 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion:152 Resp: 178142
Ion Ratio Lower Upper
152 100
115 65.3 32.3 96.8
150 156.7 0.0 351.0

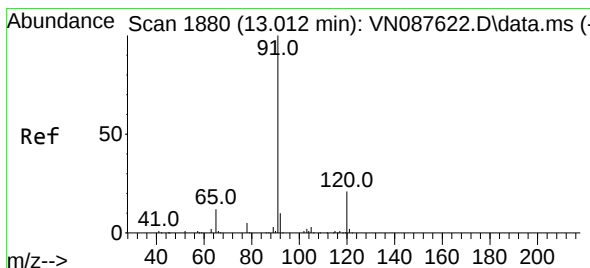
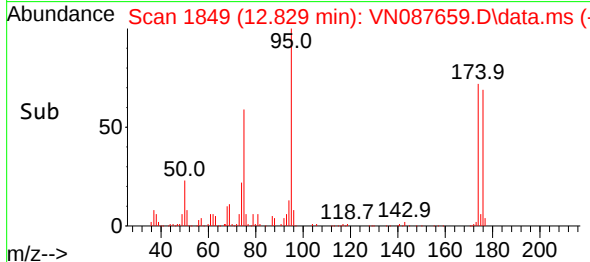
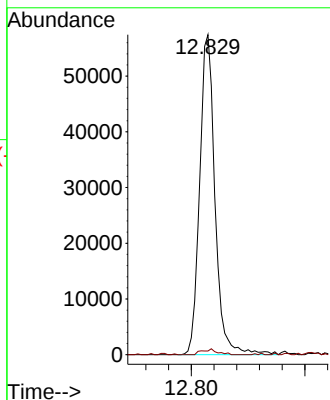
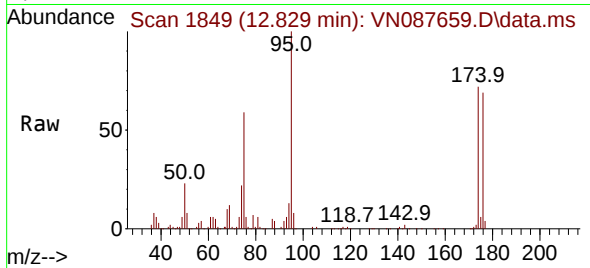




#76
1,2,3-Trichloropropane
Concen: 25.758 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

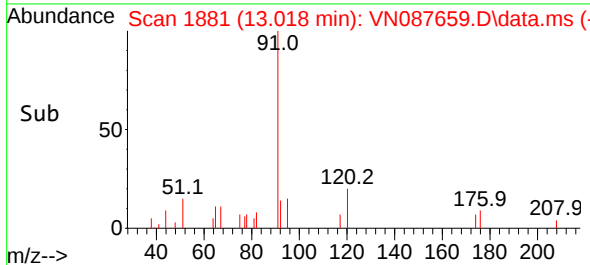
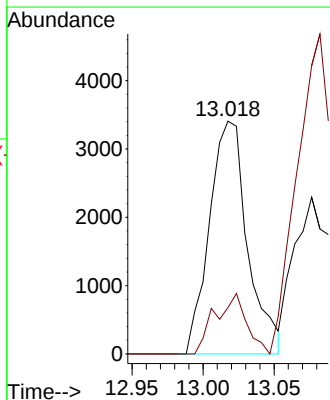
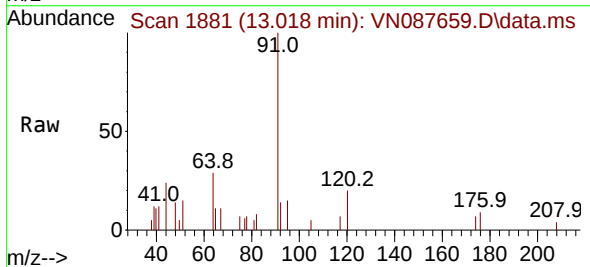
Instrument :
MSVOA_N
ClientSampleId :

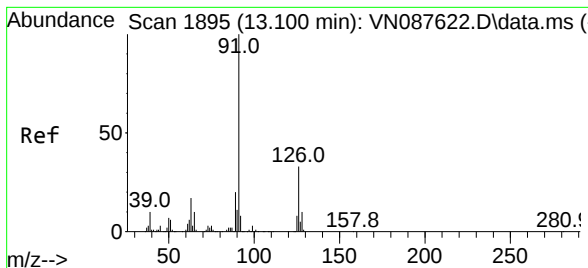
Tgt Ion: 75 Resp: 107603
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#



#78
n-propylbenzene
Concen: 0.359 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 91 Resp: 6367
Ion Ratio Lower Upper
91 100
120 21.5 10.7 32.1

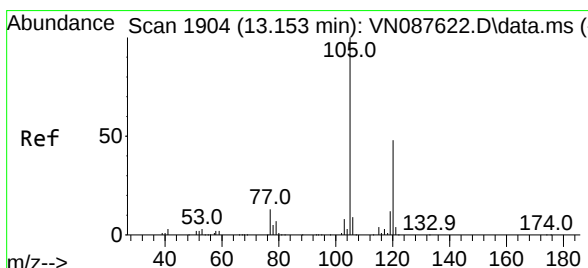
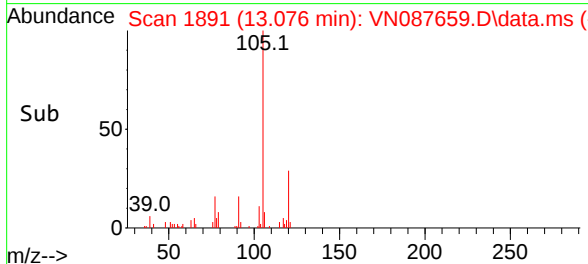
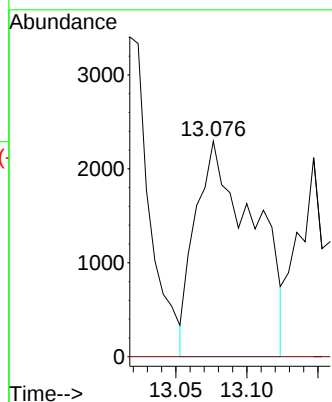
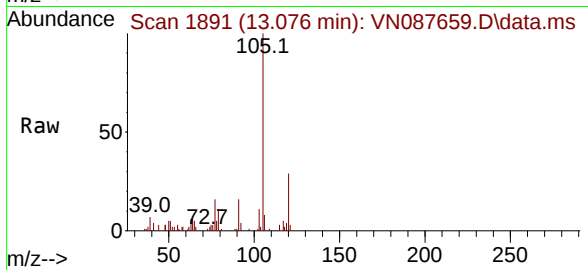




#79
2-Chlorotoluene
Concen: 0.609 ug/l
RT: 13.076 min Scan# 1891
Delta R.T. -0.024 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

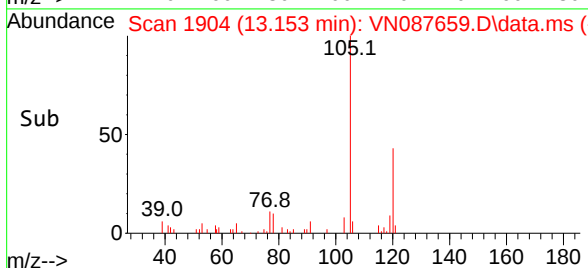
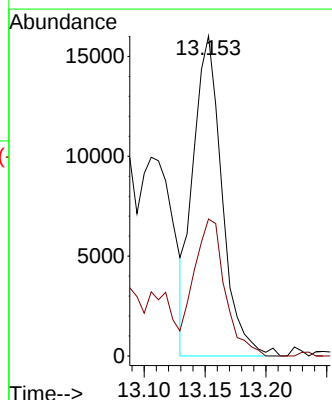
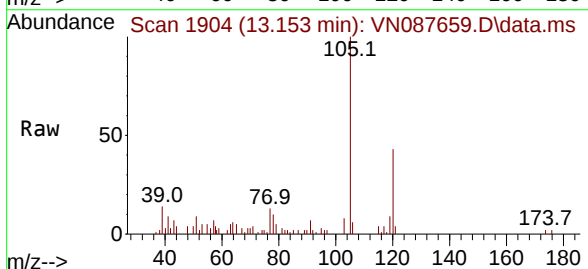
Instrument :
MSVOA_N
ClientSampleId :

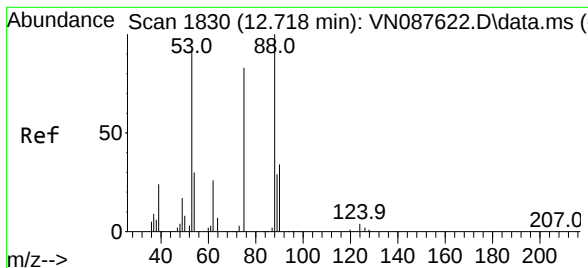
Tgt Ion: 91 Resp: 6499
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#



#80
1,3,5-Trimethylbenzene
Concen: 2.173 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 105 Resp: 26530
Ion Ratio Lower Upper
105 100
120 45.8 23.2 69.6

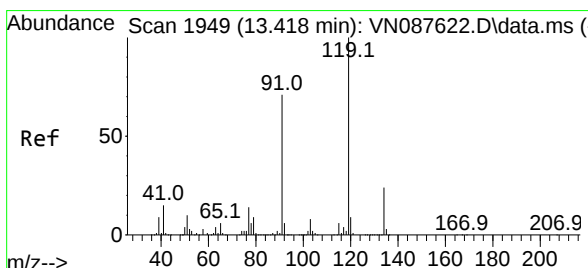
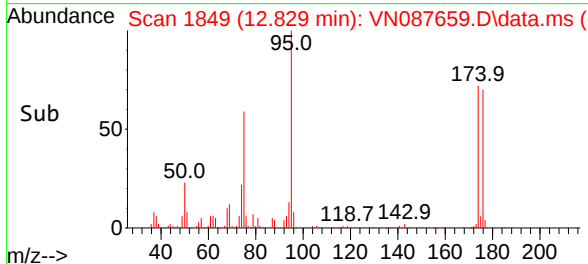
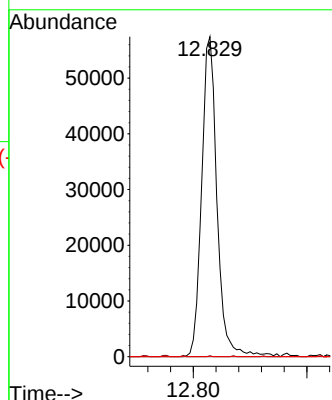
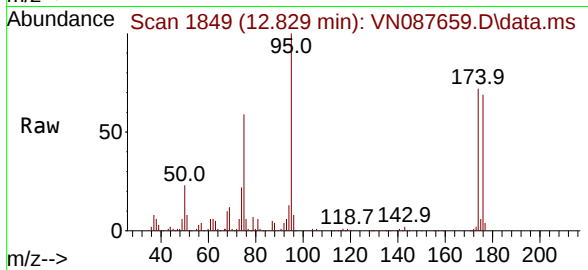




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.190 ug/l
 RT: 12.829 min Scan# 1956
 Delta R.T. 0.112 min
 Lab File: VN087659.D
 Acq: 25 Aug 2025 15:43

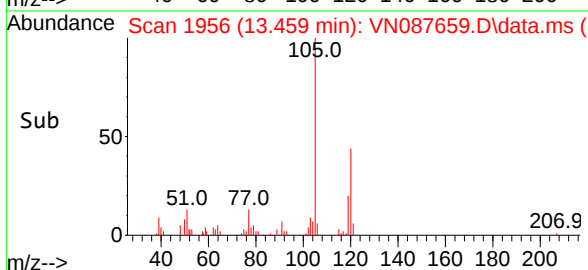
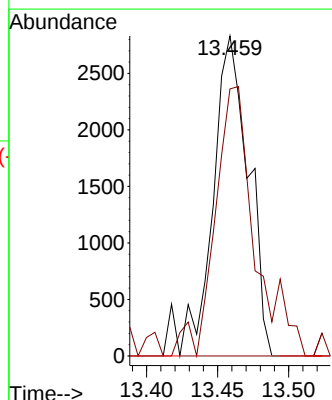
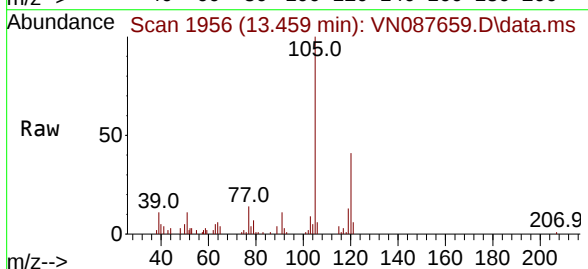
Instrument :
 MSVOA_N
 ClientSampleId :

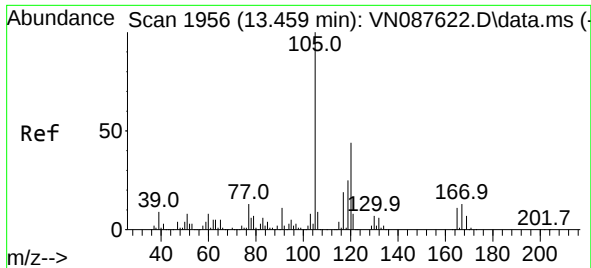
Tgt Ion: 75 Resp: 107603
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.0 35.6 53.4#



#83
 tert-Butylbenzene
 Concen: 0.479 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.041 min
 Lab File: VN087659.D
 Acq: 25 Aug 2025 15:43

Tgt Ion: 119 Resp: 4876
 Ion Ratio Lower Upper
 119 100
 91 95.5 35.0 105.0
 134 0.0 12.6 37.8#

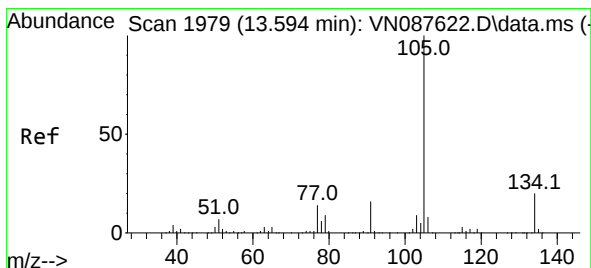
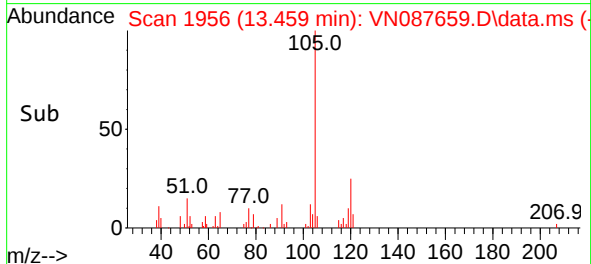
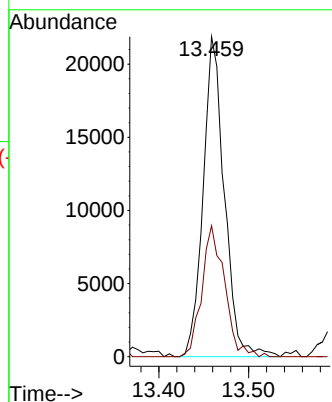
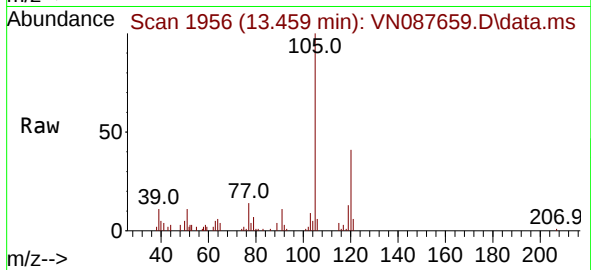




#84
1,2,4-Trimethylbenzene
Concen: 2.942 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

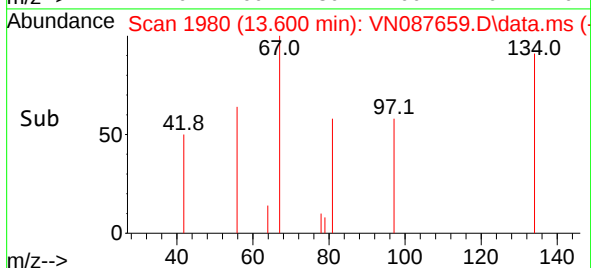
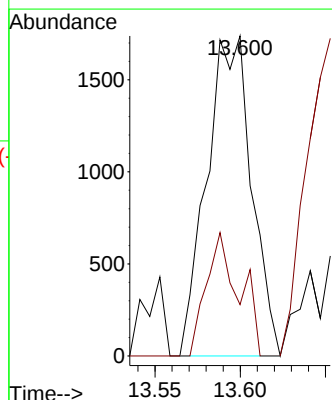
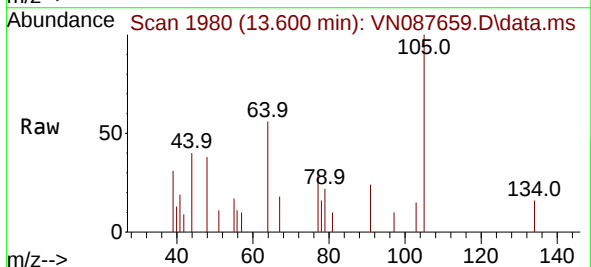
Instrument :
MSVOA_N
ClientSampleId :

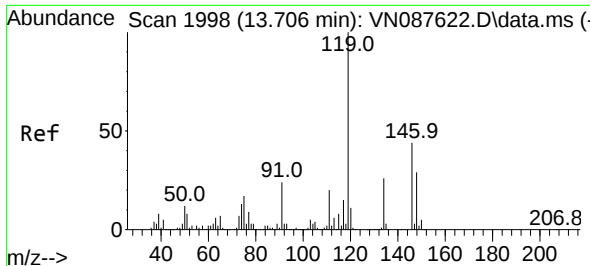
Tgt Ion:105 Resp: 35962
Ion Ratio Lower Upper
105 100
120 43.7 22.0 66.0



#85
sec-Butylbenzene
Concen: 0.210 ug/l
RT: 13.600 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion:105 Resp: 3175
Ion Ratio Lower Upper
105 100
134 28.3 9.6 28.6

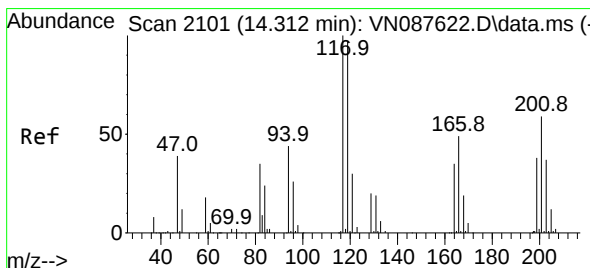
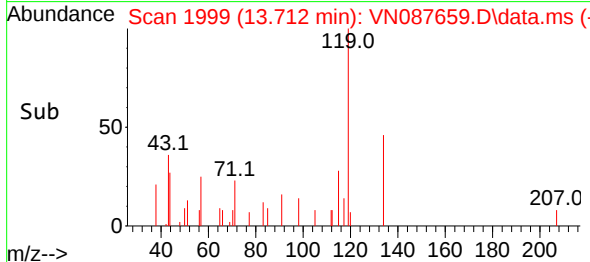
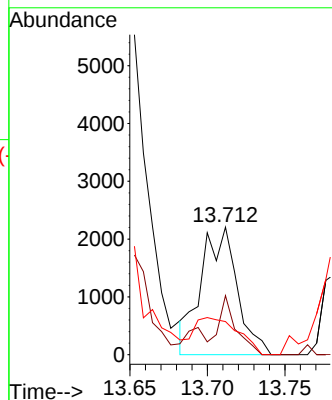
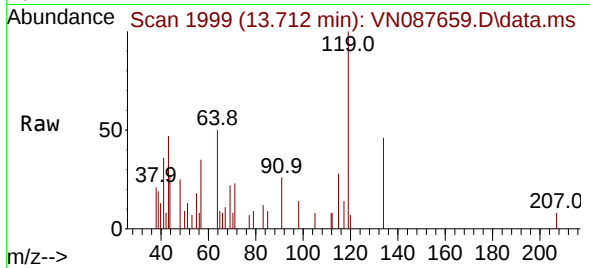




#86
p-Isopropyltoluene
Concen: 0.285 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

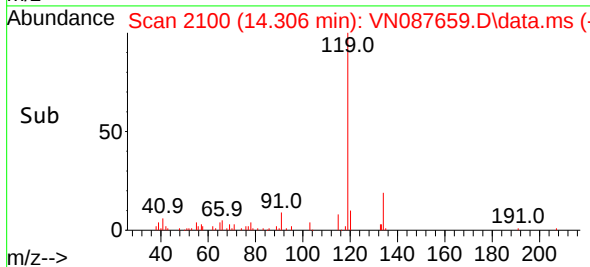
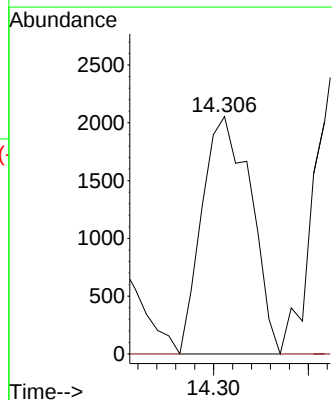
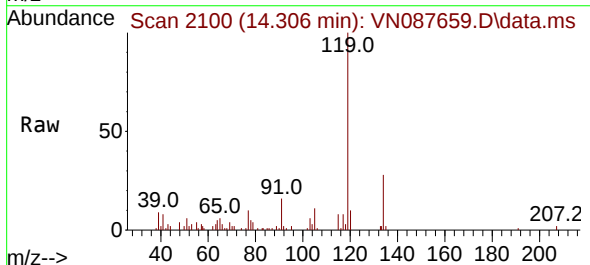
Instrument :
MSVOA_N
ClientSampleId :

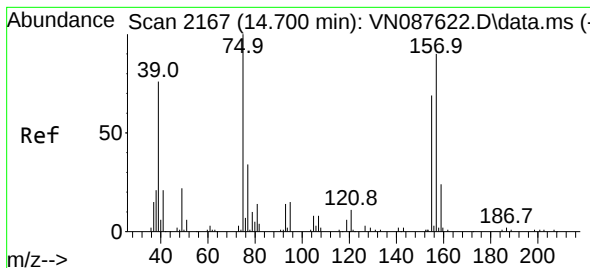
Tgt Ion:119 Resp: 3560
Ion Ratio Lower Upper
119 100
134 35.1 12.7 38.0
91 36.4 12.5 37.5



#90
Hexachloroethane
Concen: 1.552 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion:117 Resp: 3687
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#

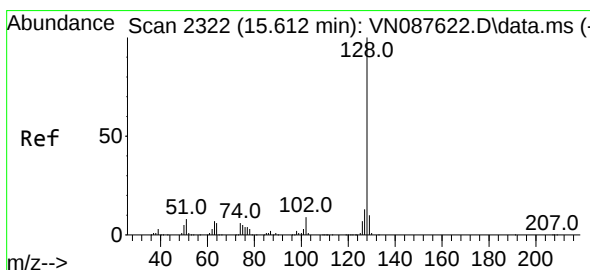
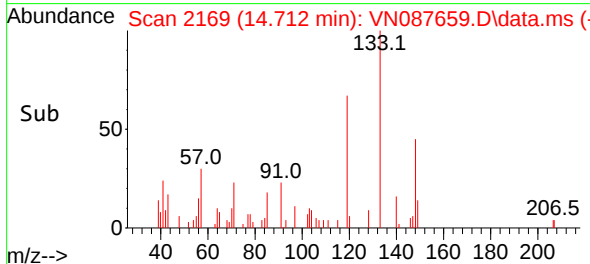
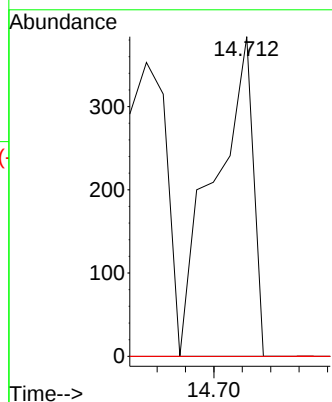
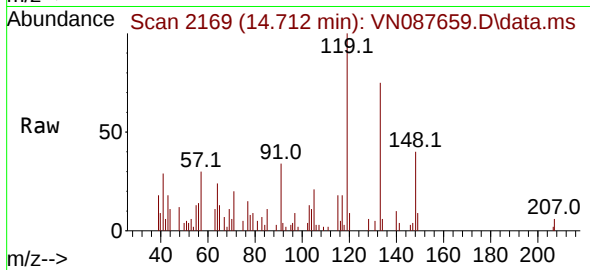




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.310 ug/l
RT: 14.712 min Scan# 2169
Delta R.T. 0.012 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 365
Ion Ratio Lower Upper
75 100
155 0.0 36.6 109.9#
157 0.0 45.6 136.9#



#95
Naphthalene
Concen: 1.104 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 128 Resp: 14885
Ion Ratio Lower Upper
128 100
127 12.2 10.6 15.8
129 8.0 8.6 12.8#

