

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082225\
 Data File : VN087644.D
 Acq On : 22 Aug 2025 16:08
 Operator : JC\MD
 Sample : Q2940-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP(1-6)

Quant Time: Aug 25 01:22:52 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)

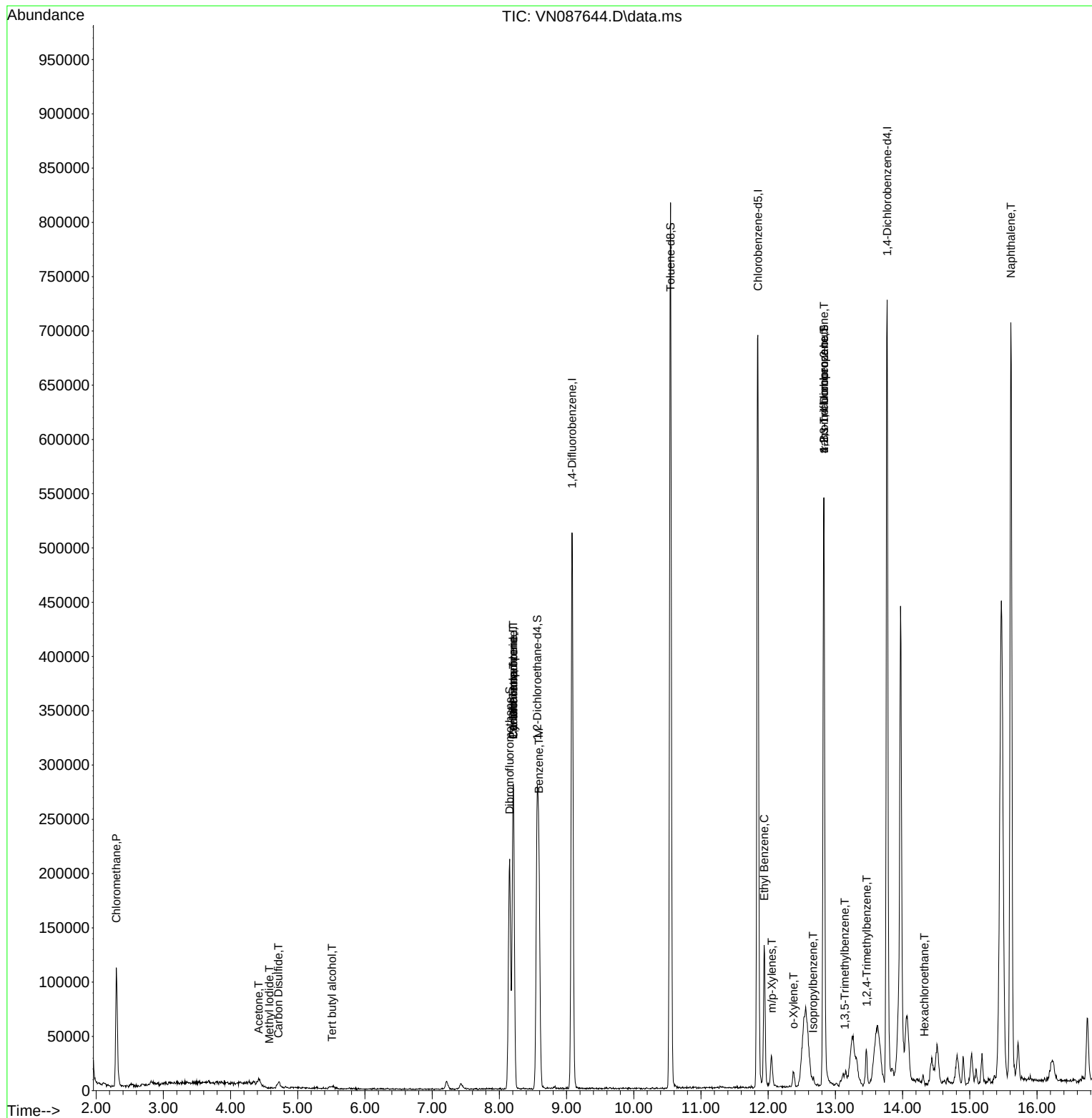
Internal Standards						
1) Pentafluorobenzene	8.206	168	190152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	420345	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	382873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	197052	50.578	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.160%			
35) Dibromofluoromethane	8.153	113	149076	49.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.240%			
50) Toluene-d8	10.547	98	535285	47.124	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.240%			
62) 4-Bromofluorobenzene	12.829	95	190701	47.208	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.420%			
Target Compounds						Qvalue
3) Chloromethane	2.300	50	3305	1.191	ug/l #	42
10) Methyl Iodide	4.577	142	191	6.893	ug/l #	38
11) Tert butyl alcohol	5.512	59	472	0.698	ug/l #	71
16) Acetone	4.418	43	8684	4.095	ug/l	95
17) Carbon Disulfide	4.712	76	3095	0.410	ug/l #	74
20) Methylene Chloride	5.247	84	97	Below Cal	#	26
31) Cyclohexane	8.206	56	6323	1.290	ug/l #	42
36) 1,1-Dichloropropene	8.206	75	18596	3.994	ug/l #	52
38) Carbon Tetrachloride	8.206	117	22599	4.916	ug/l #	13
40) Benzene	8.588	78	174319	12.207	ug/l	97
67) Ethyl Benzene	11.941	91	96194	5.833	ug/l	99
68) m/p-Xylenes	12.053	106	9417	1.557	ug/l	98
69) o-Xylene	12.376	106	4169	0.703	ug/l	94
73) Isopropylbenzene	12.670	105	4454	0.298	ug/l	98
76) 1,2,3-Trichloropropane	12.829	75	116630	26.874	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.141	105	4328	0.341	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.829	75	116630	71.146	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.464	105	19727	1.553	ug/l	98
90) Hexachloroethane	14.323	117	719	0.291	ug/l #	22
95) Naphthalene	15.611	128	649057	46.323	ug/l	100

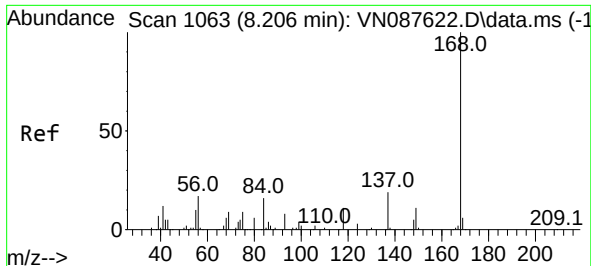
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

Quant Time: Aug 25 01:22:52 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

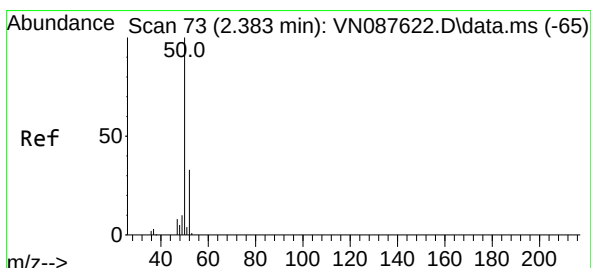
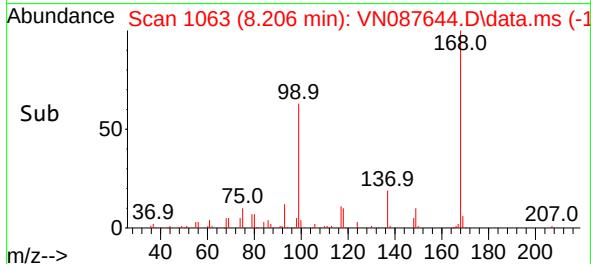
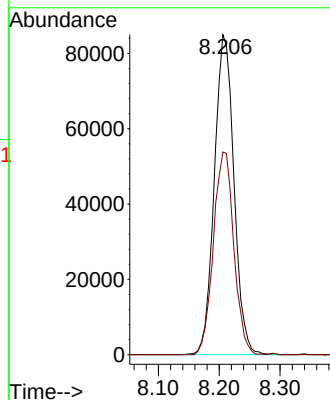
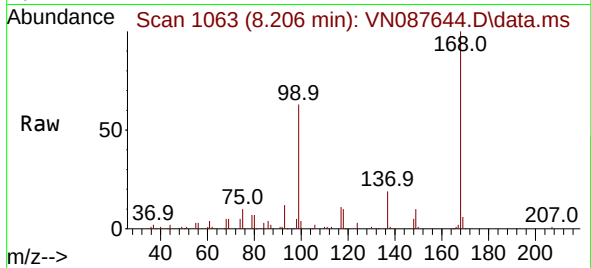




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

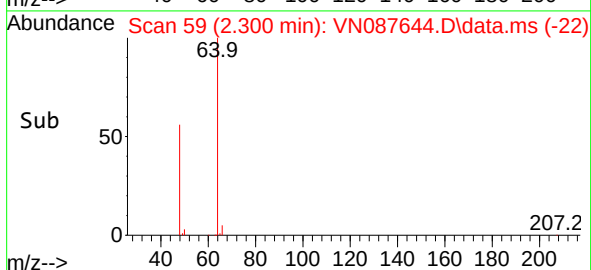
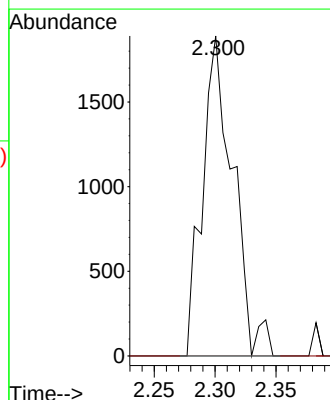
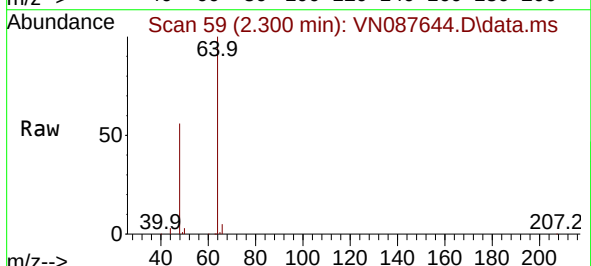
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

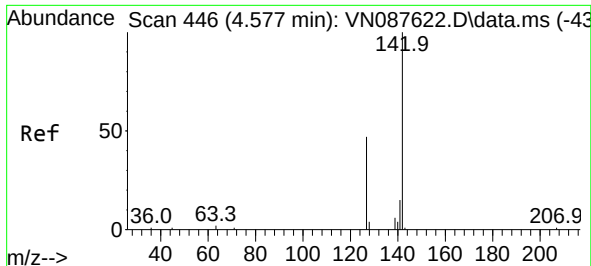
Tgt Ion:168 Resp: 190152
Ion Ratio Lower Upper
168 100
99 63.4 57.2 85.8



#3
Chloromethane
Concen: 1.191 ug/l
RT: 2.300 min Scan# 59
Delta R.T. -0.083 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

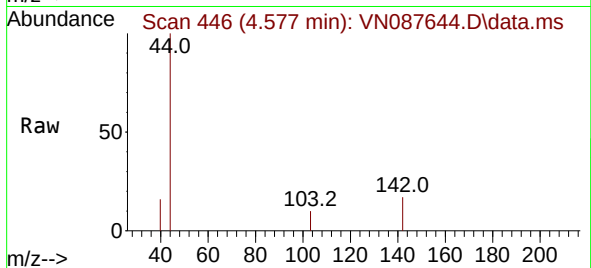
Tgt Ion: 50 Resp: 3305
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#



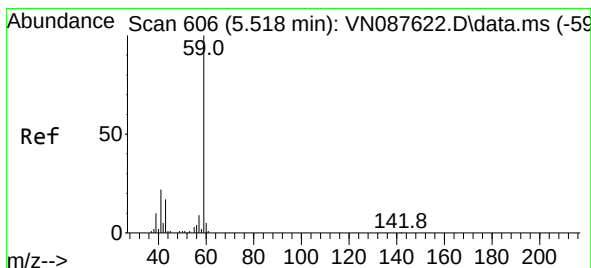
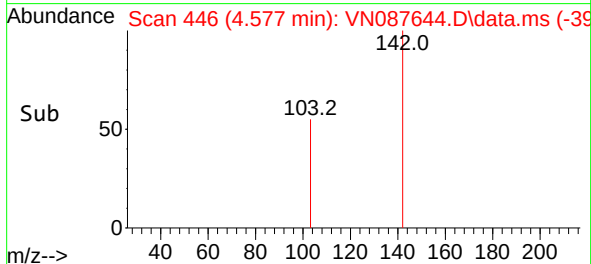
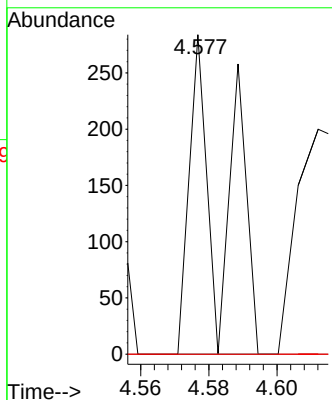


#10
Methyl Iodide
Concen: 6.893 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

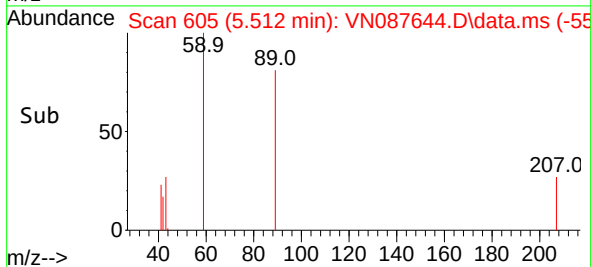
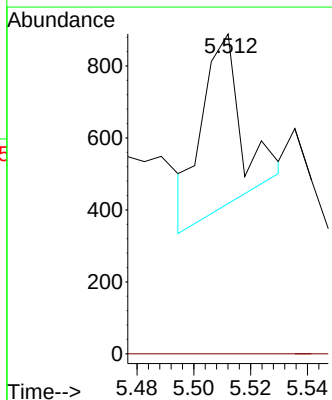
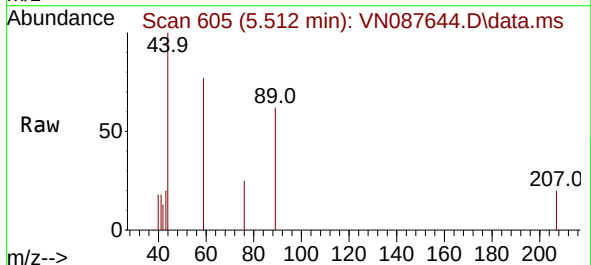


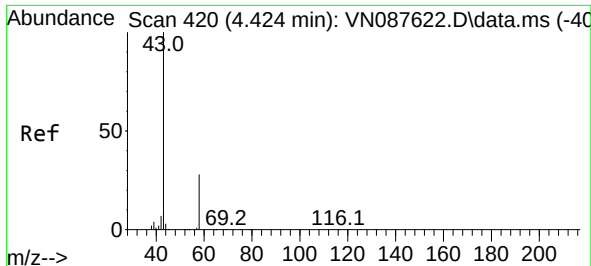
Tgt Ion:142 Resp: 191
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 0.698 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 59 Resp: 472
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

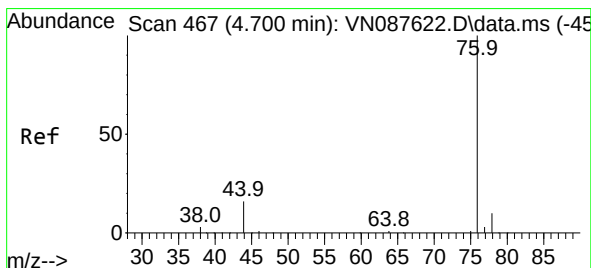
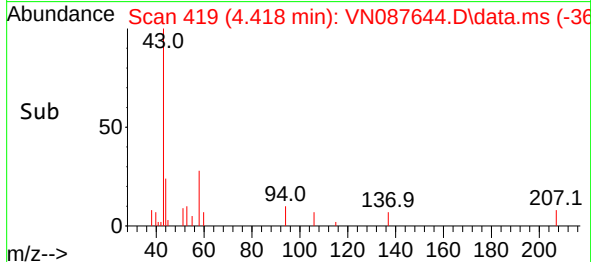
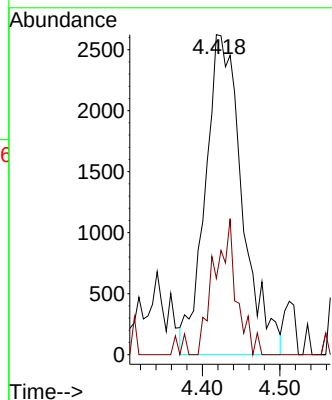
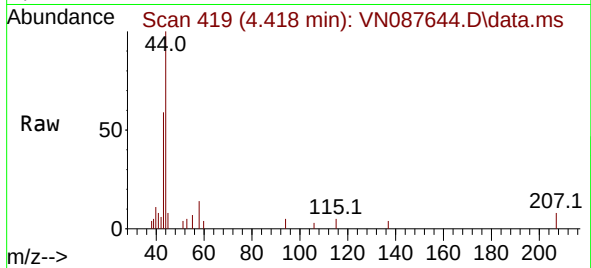




#16
Acetone
Concen: 4.095 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

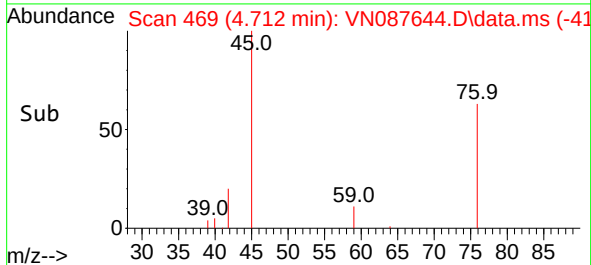
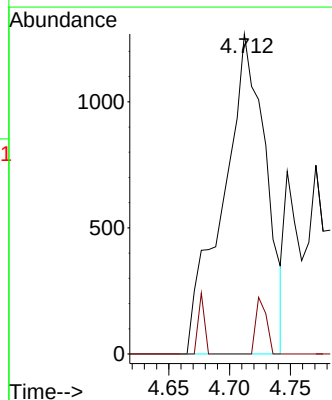
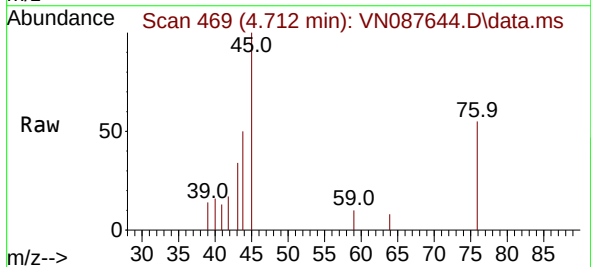
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

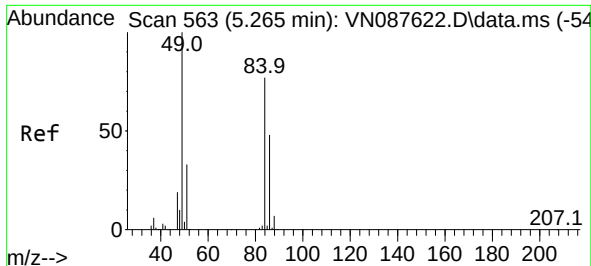
Tgt Ion: 43 Resp: 8684
Ion Ratio Lower Upper
43 100
58 25.4 22.6 33.8



#17
Carbon Disulfide
Concen: 0.410 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

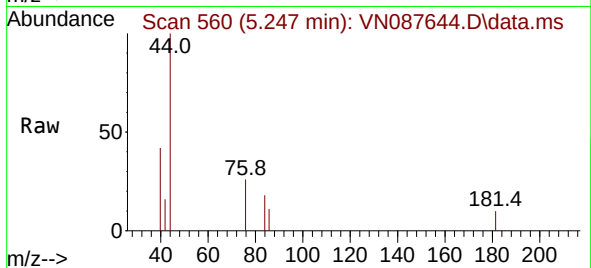
Tgt Ion: 76 Resp: 3095
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#





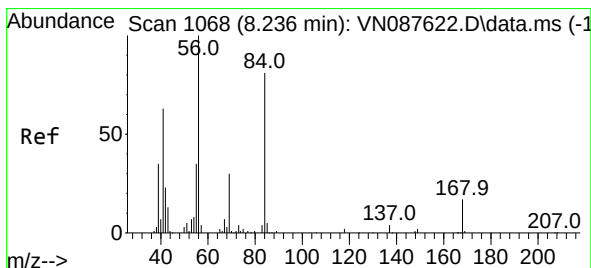
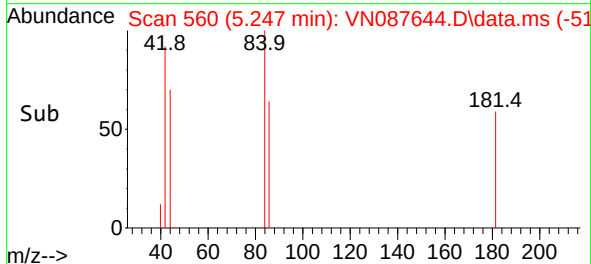
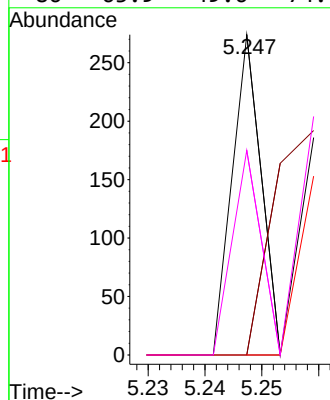
#20
Methylene Chloride
Concen: Below Cal
RT: 5.247 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)



Tgt Ion: 84 Resp: 97

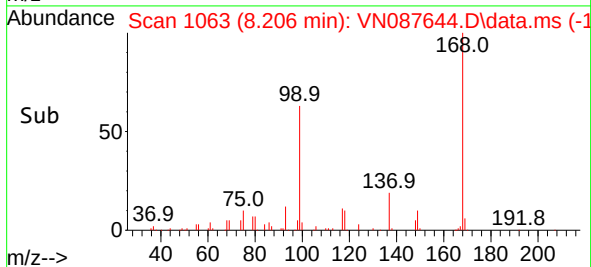
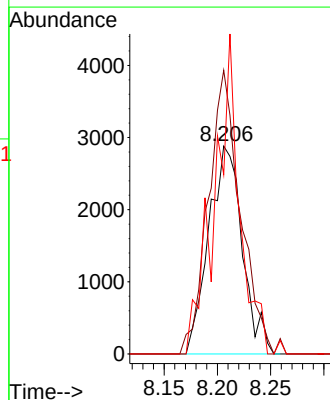
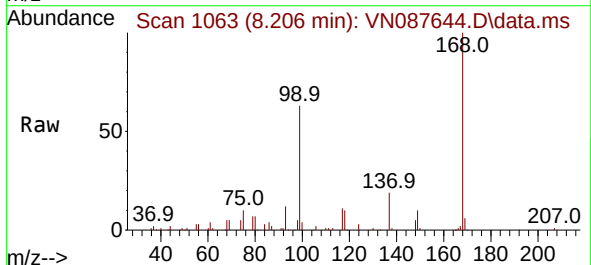
Ion	Ratio	Lower	Upper
84	100		
49	0.0	103.4	155.2#
51	0.0	33.8	50.8#
86	63.9	49.6	74.4

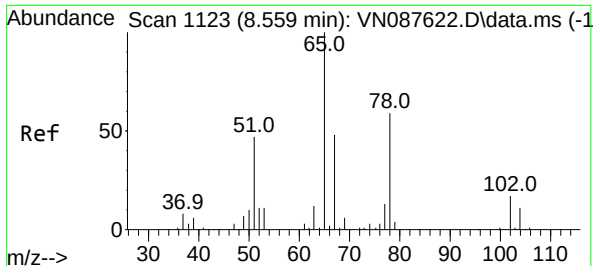


#31
Cyclohexane
Concen: 1.290 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 56 Resp: 6323

Ion	Ratio	Lower	Upper
56	100		
69	136.5	23.7	35.5#
84	86.3	64.7	97.1





#33

1,2-Dichloroethane-d4

Concen: 50.578 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

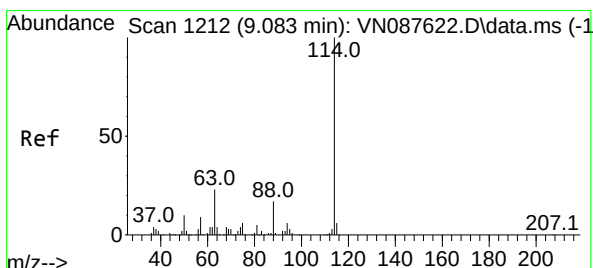
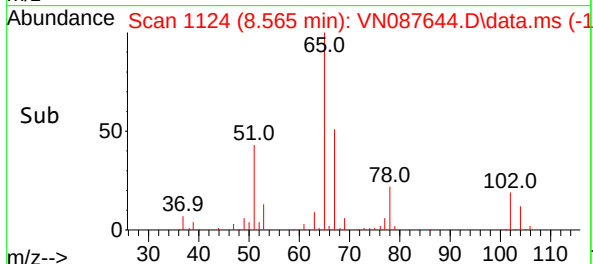
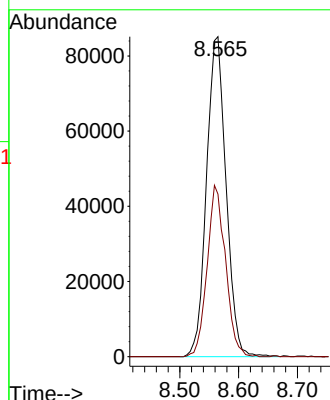
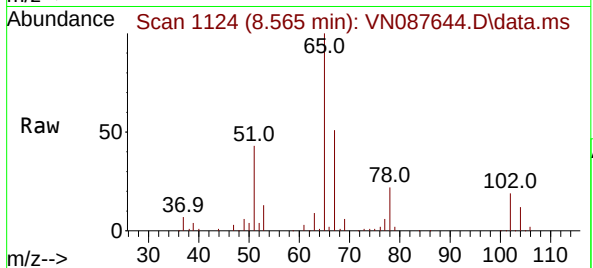
COMP(1-6)

Tgt Ion: 65 Resp: 197052

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

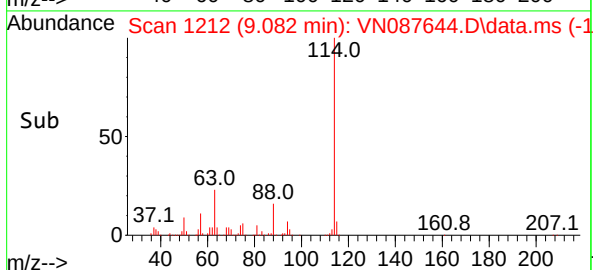
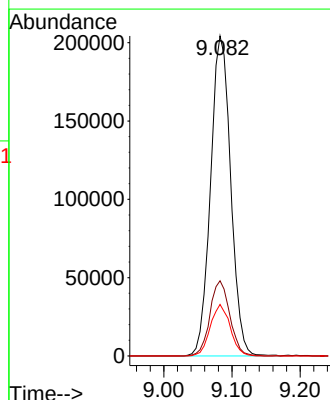
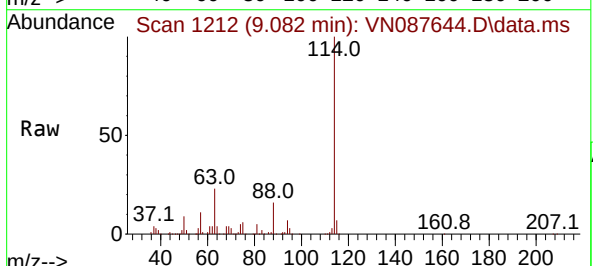
Tgt Ion: 114 Resp: 420345

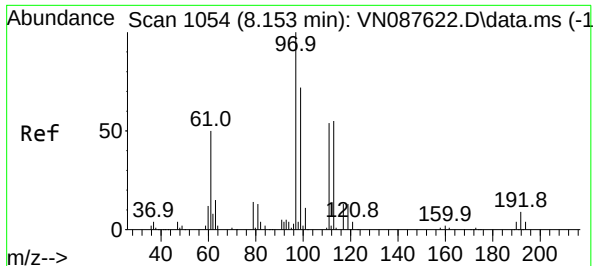
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.2

88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 49.121 ug/l

RT: 8.153 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

COMP(1-6)

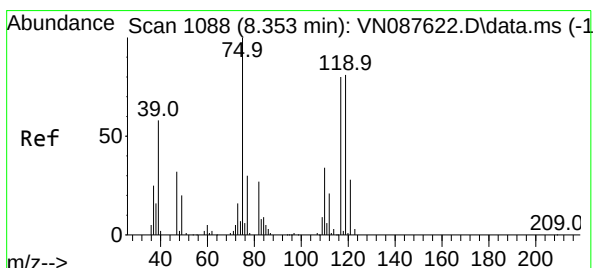
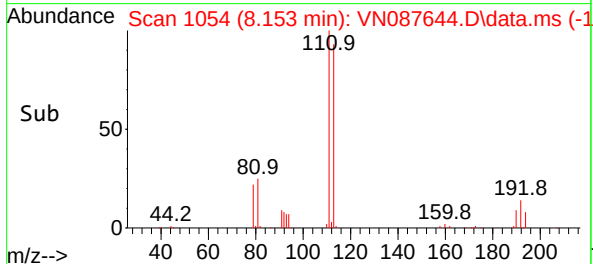
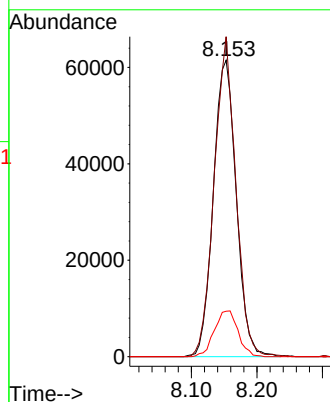
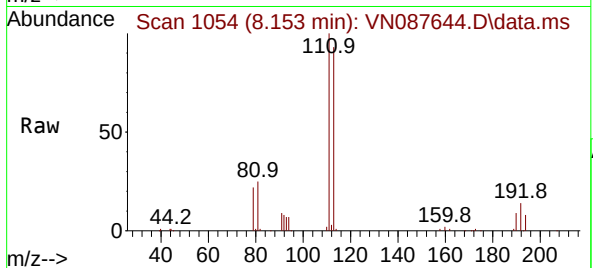
Tgt Ion:113 Resp: 149076

Ion Ratio Lower Upper

113 100

111 101.9 82.8 124.2

192 16.0 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.994 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

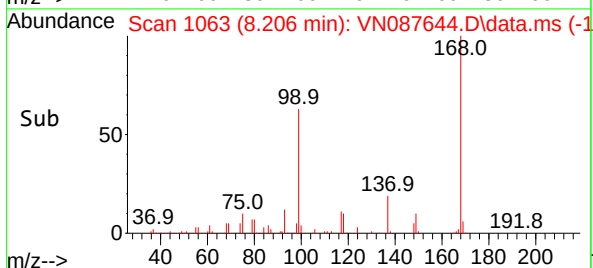
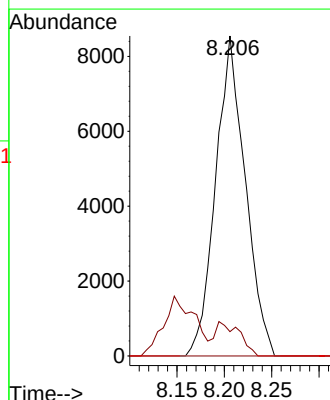
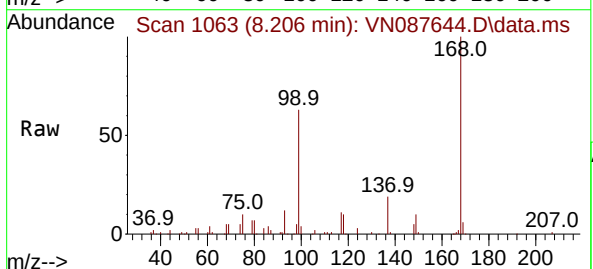
Tgt Ion: 75 Resp: 18596

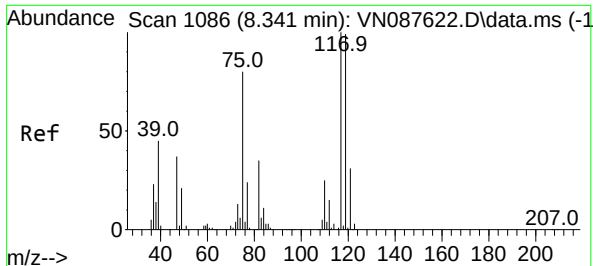
Ion Ratio Lower Upper

75 100

110 8.9 15.9 47.6#

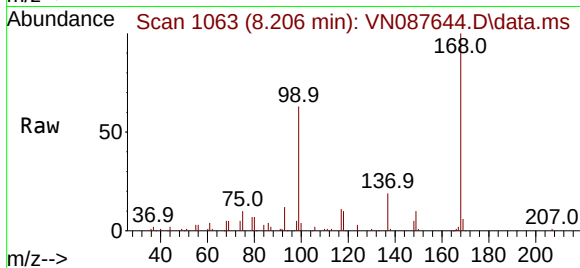
77 0.0 24.4 36.6#



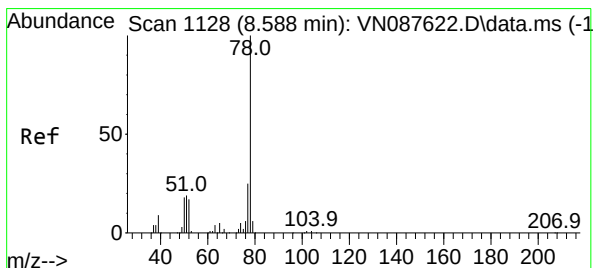
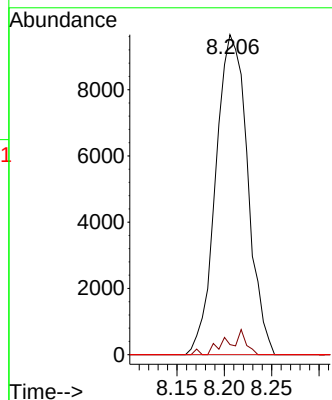
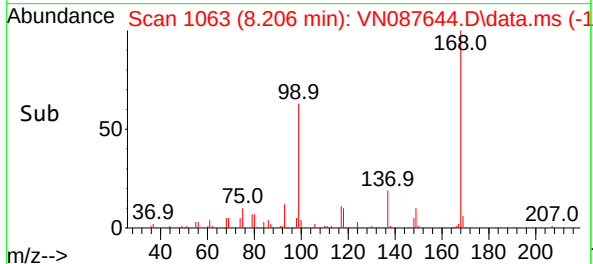


#38
Carbon Tetrachloride
Concen: 4.916 ug/l
RT: 8.206 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

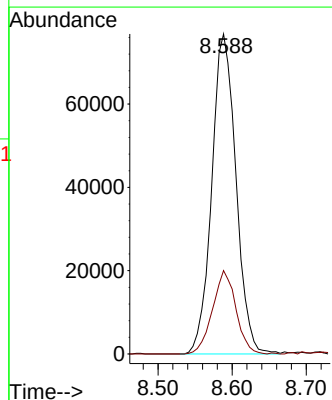
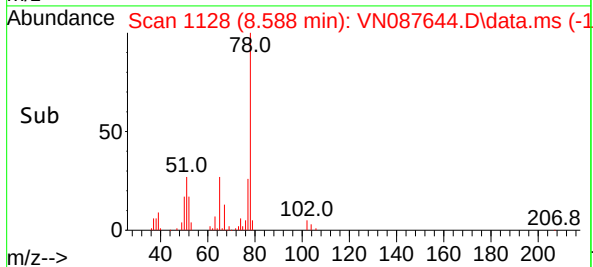
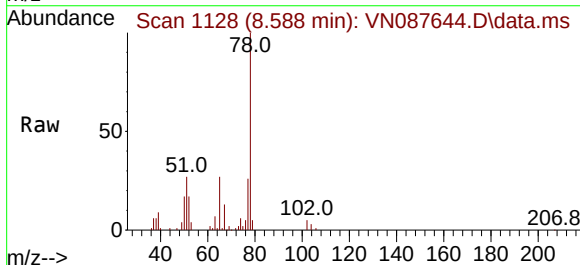


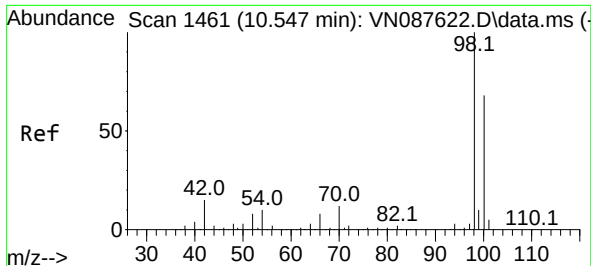
Tgt Ion:117 Resp: 22599
Ion Ratio Lower Upper
117 100
119 3.1 79.0 118.6#
121 0.0 25.0 37.6#



#40
Benzene
Concen: 12.207 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 78 Resp: 174319
Ion Ratio Lower Upper
78 100
77 26.1 19.7 29.5

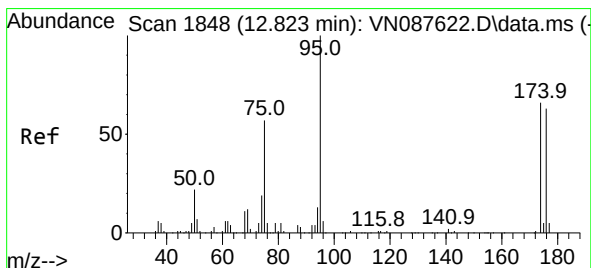
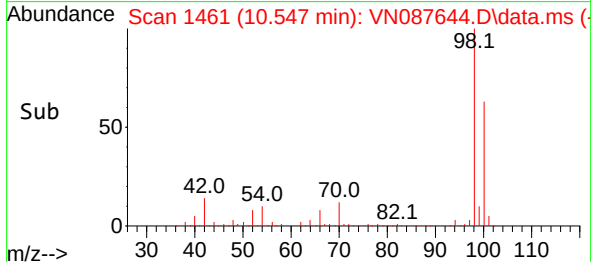
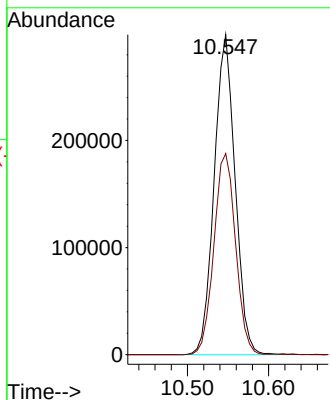
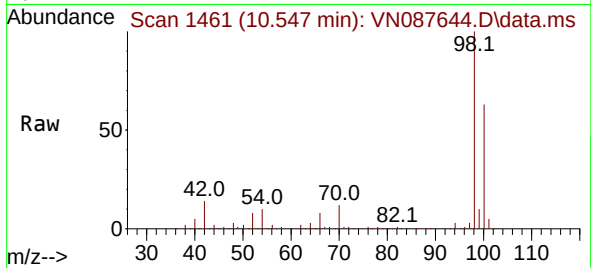




#50
Toluene-d8
Concen: 47.124 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

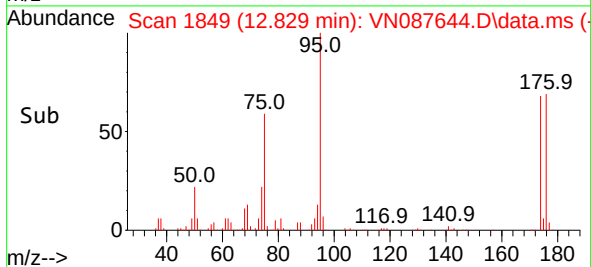
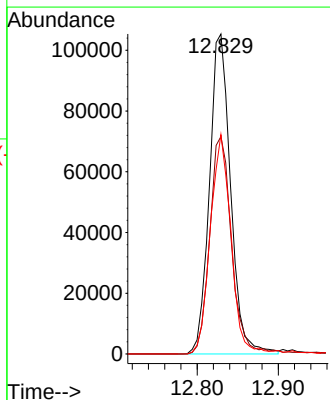
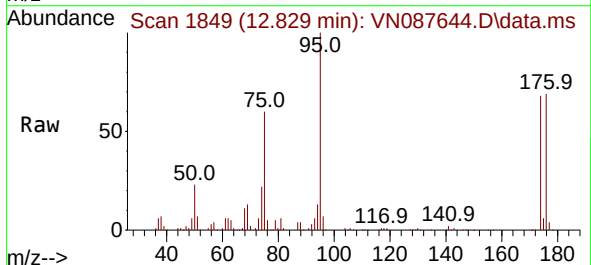
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

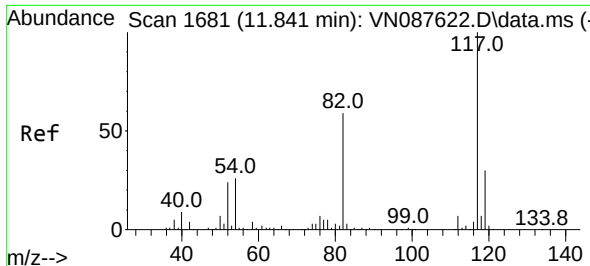
Tgt Ion: 98 Resp: 535285
Ion Ratio Lower Upper
98 100
100 65.2 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 47.208 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 95 Resp: 190701
Ion Ratio Lower Upper
95 100
174 70.5 0.0 138.4
176 67.4 0.0 132.6

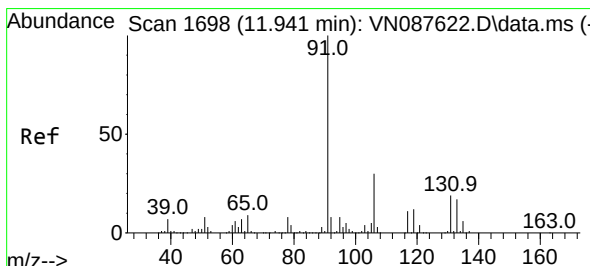
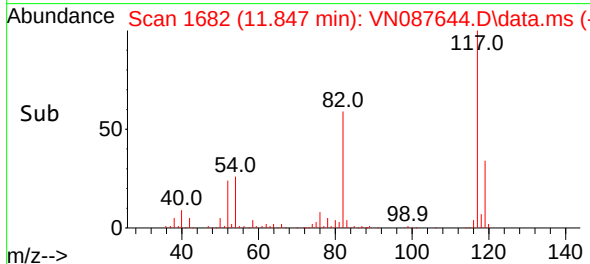
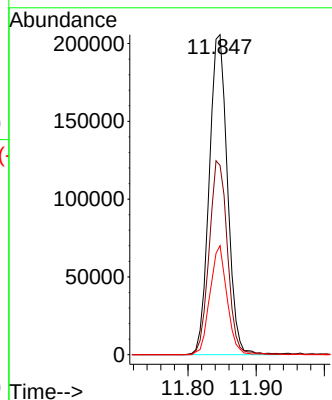
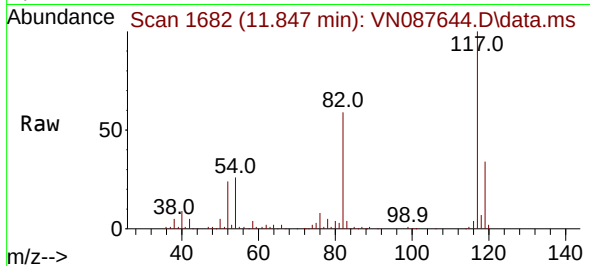




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

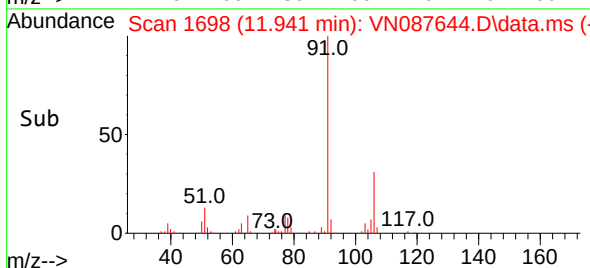
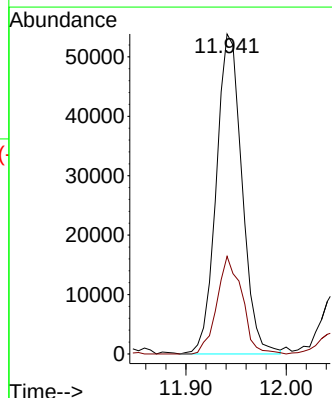
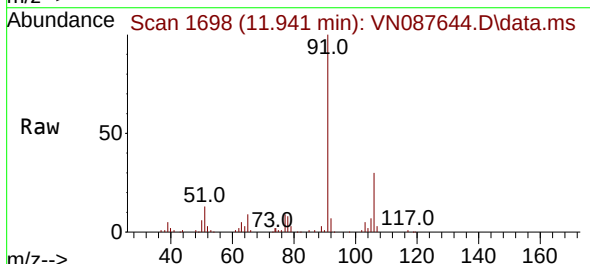
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

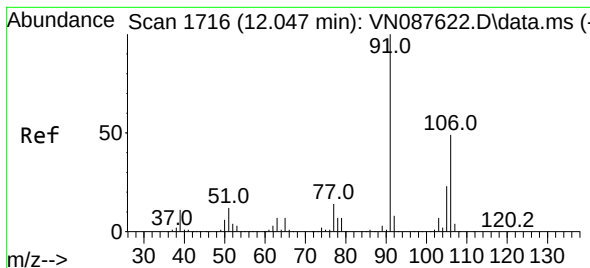
Tgt Ion:117 Resp: 382873
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.2
119 34.1 24.3 36.5



#67
Ethyl Benzene
Concen: 5.833 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 91 Resp: 96194
Ion Ratio Lower Upper
91 100
106 30.5 24.1 36.1





#68

m/p-Xylenes

Concen: 1.557 ug/l

RT: 12.053 min Scan# 1717

Delta R.T. 0.006 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

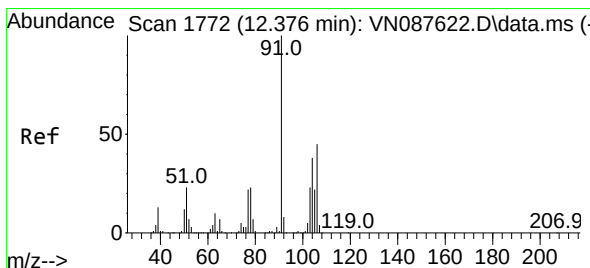
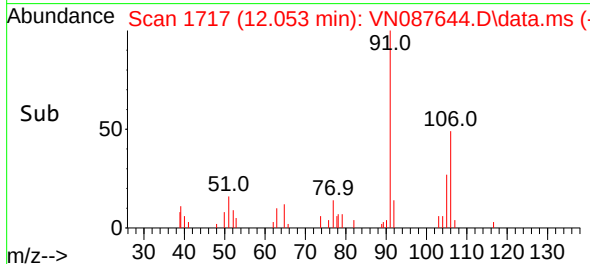
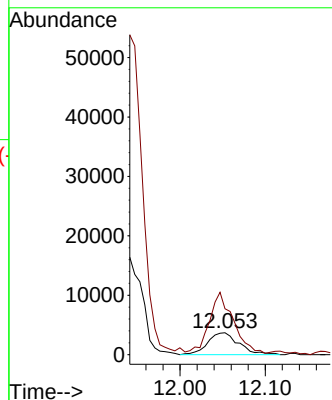
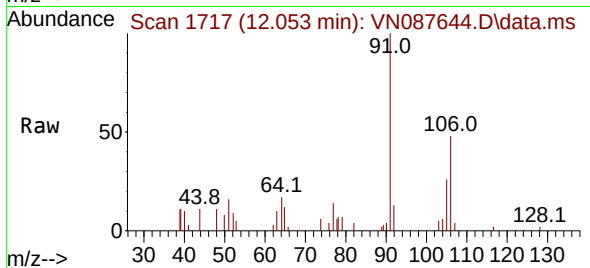
COMP(1-6)

Tgt Ion:106 Resp: 9417

Ion Ratio Lower Upper

106 100

91 214.8 169.3 253.9



#69

o-Xylene

Concen: 0.703 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VN087644.D

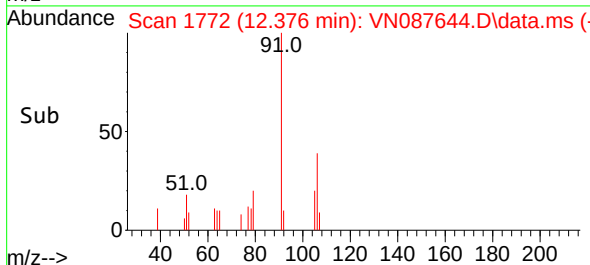
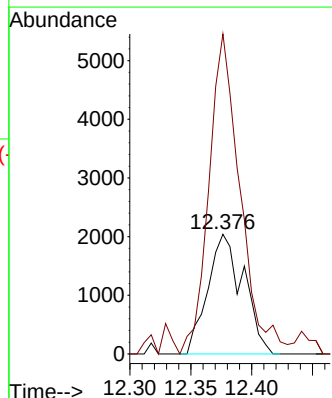
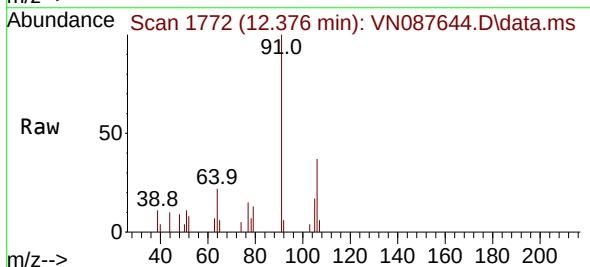
Acq: 22 Aug 2025 16:08

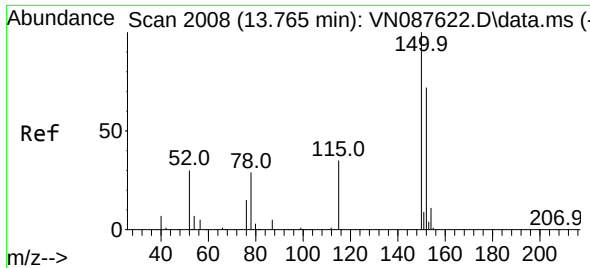
Tgt Ion:106 Resp: 4169

Ion Ratio Lower Upper

106 100

91 233.1 111.4 334.2

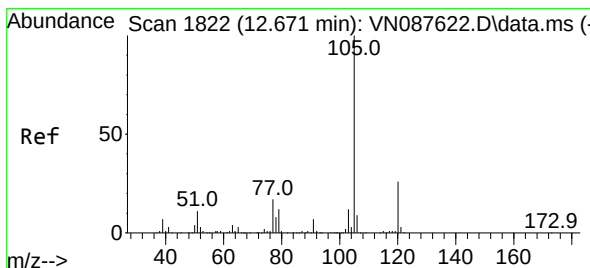
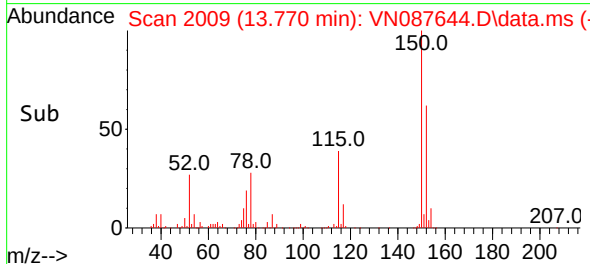
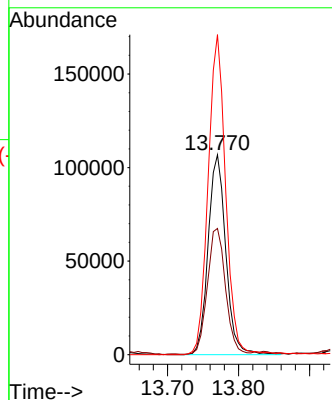
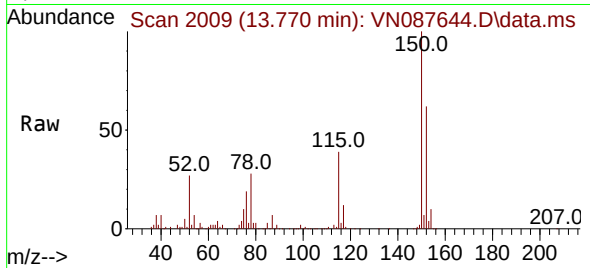




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

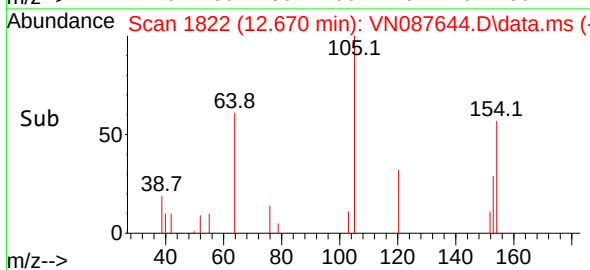
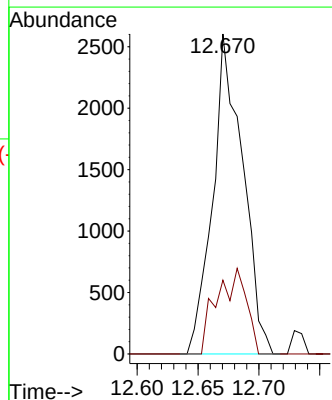
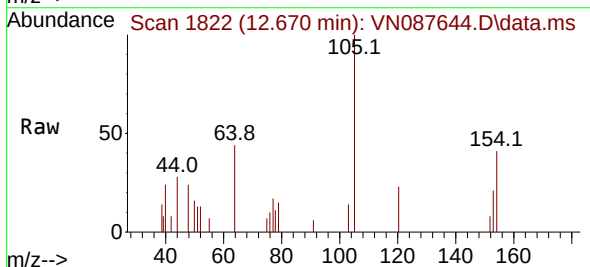
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

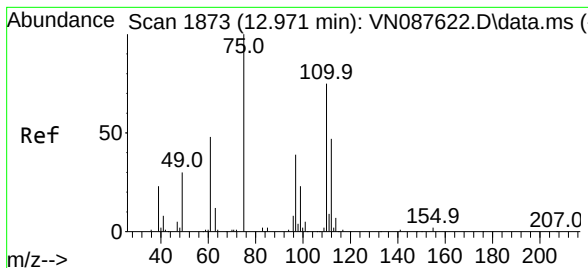
Tgt Ion:152 Resp: 185066
Ion Ratio Lower Upper
152 100
115 64.5 32.3 96.8
150 158.3 0.0 351.0



#73
Isopropylbenzene
Concen: 0.298 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion:105 Resp: 4454
Ion Ratio Lower Upper
105 100
120 26.6 12.8 38.3





#76

1,2,3-Trichloropropane

Concen: 26.874 ug/l

RT: 12.829 min Scan# 11

Delta R.T. -0.141 min

Lab File: VN087644.D

Acq: 22 Aug 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

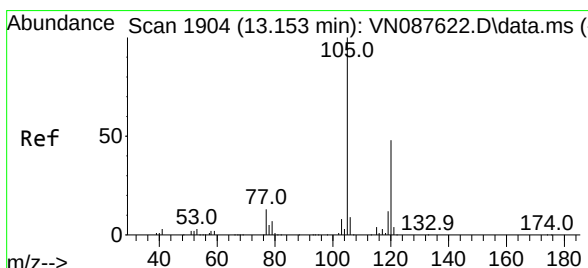
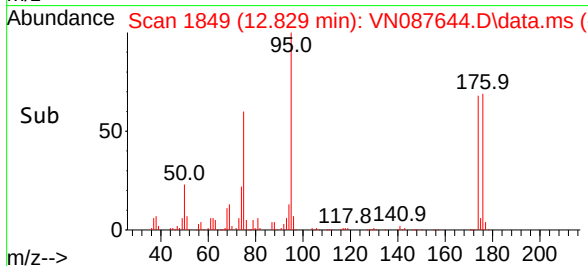
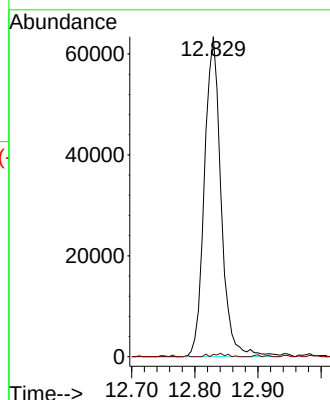
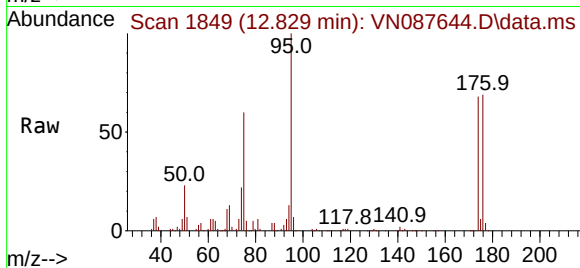
COMP(1-6)

Tgt Ion: 75 Resp: 116630

Ion Ratio Lower Upper

75 100

77 0.7 89.1 267.4#



#80

1,3,5-Trimethylbenzene

Concen: 0.341 ug/l

RT: 13.141 min Scan# 1902

Delta R.T. -0.012 min

Lab File: VN087644.D

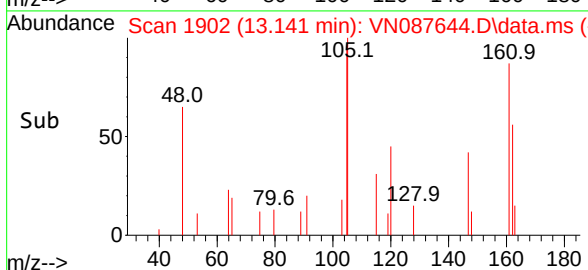
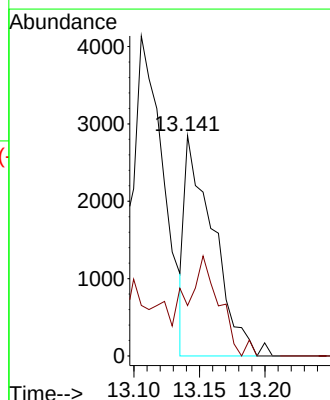
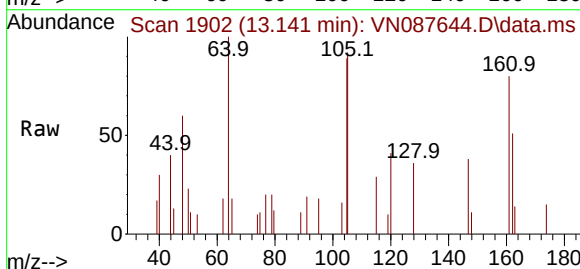
Acq: 22 Aug 2025 16:08

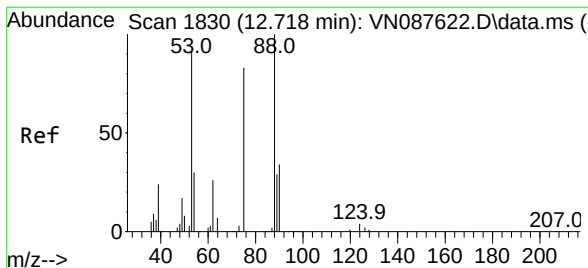
Tgt Ion: 105 Resp: 4328

Ion Ratio Lower Upper

105 100

120 49.9 23.2 69.6

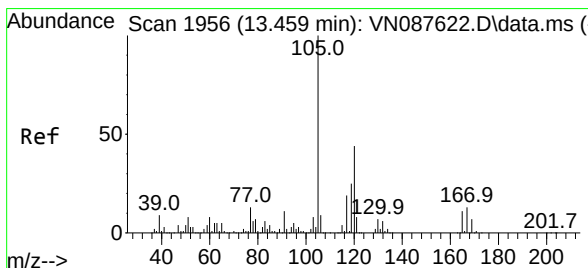
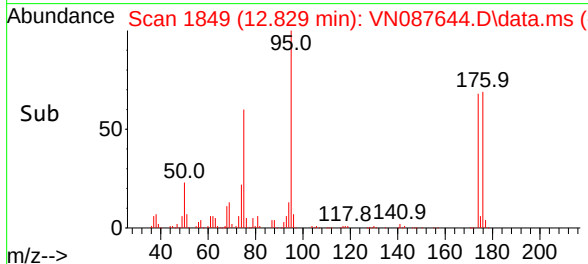
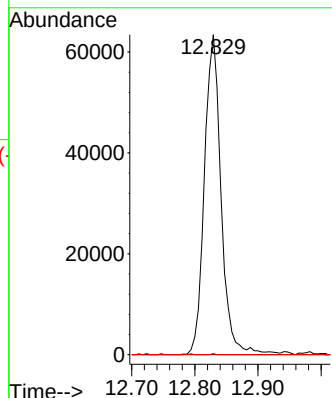
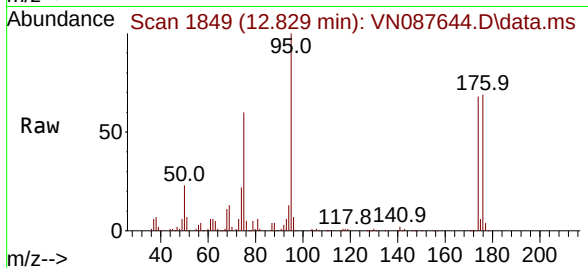




#81
trans-1,4-Dichloro-2-butene
Concen: 71.146 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

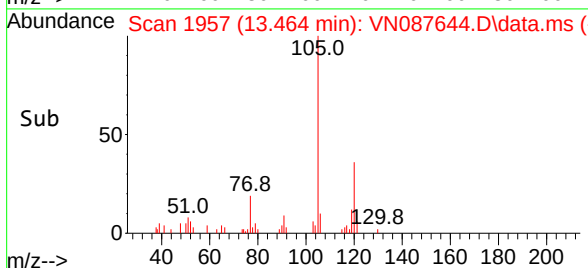
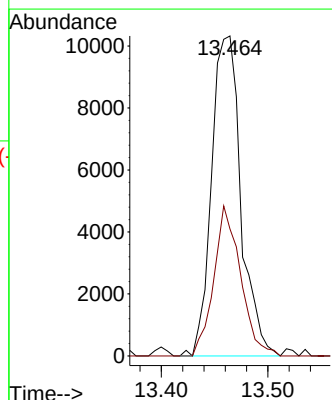
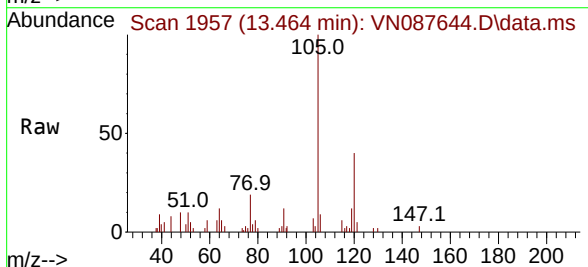
Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

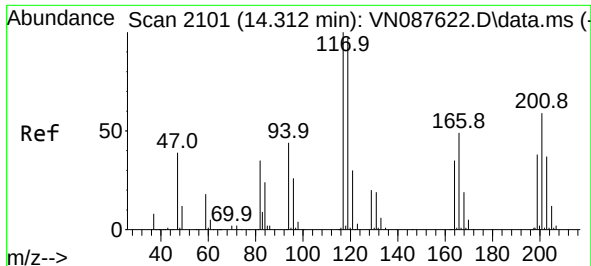
Tgt Ion: 75 Resp: 116630
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.553 ug/l
RT: 13.464 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion: 105 Resp: 19727
Ion Ratio Lower Upper
105 100
120 42.9 22.0 66.0

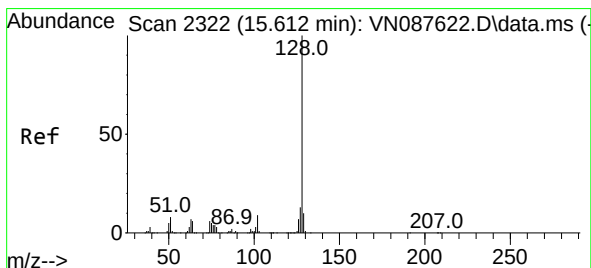
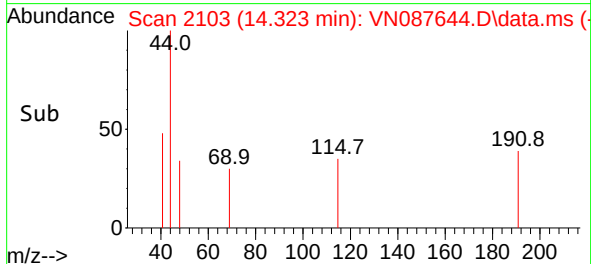
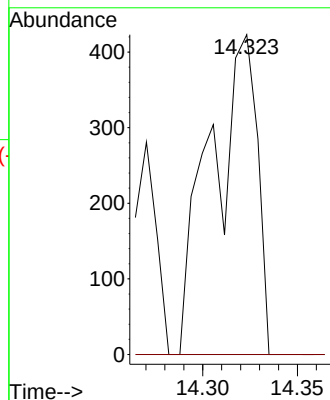
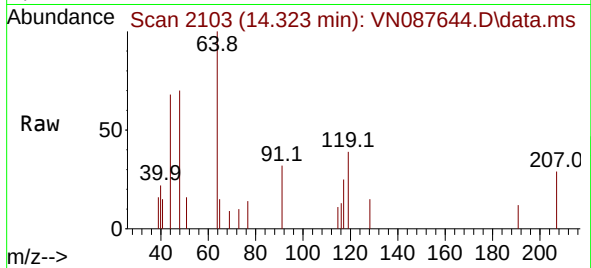




#90
Hexachloroethane
Concen: 0.291 ug/l
RT: 14.323 min Scan# 2101
Delta R.T. 0.012 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
COMP(1-6)

Tgt Ion:117 Resp: 719
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#



#95
Naphthalene
Concen: 46.323 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN087644.D
Acq: 22 Aug 2025 16:08

Tgt Ion:128 Resp: 649057
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.8 8.6 12.8

