

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087698.D
 Acq On : 29 Aug 2025 14:18
 Operator : JC\MD
 Sample : Q2964-04 100X
 Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RPXY1RDL

Quant Time: Aug 29 22:55:35 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)

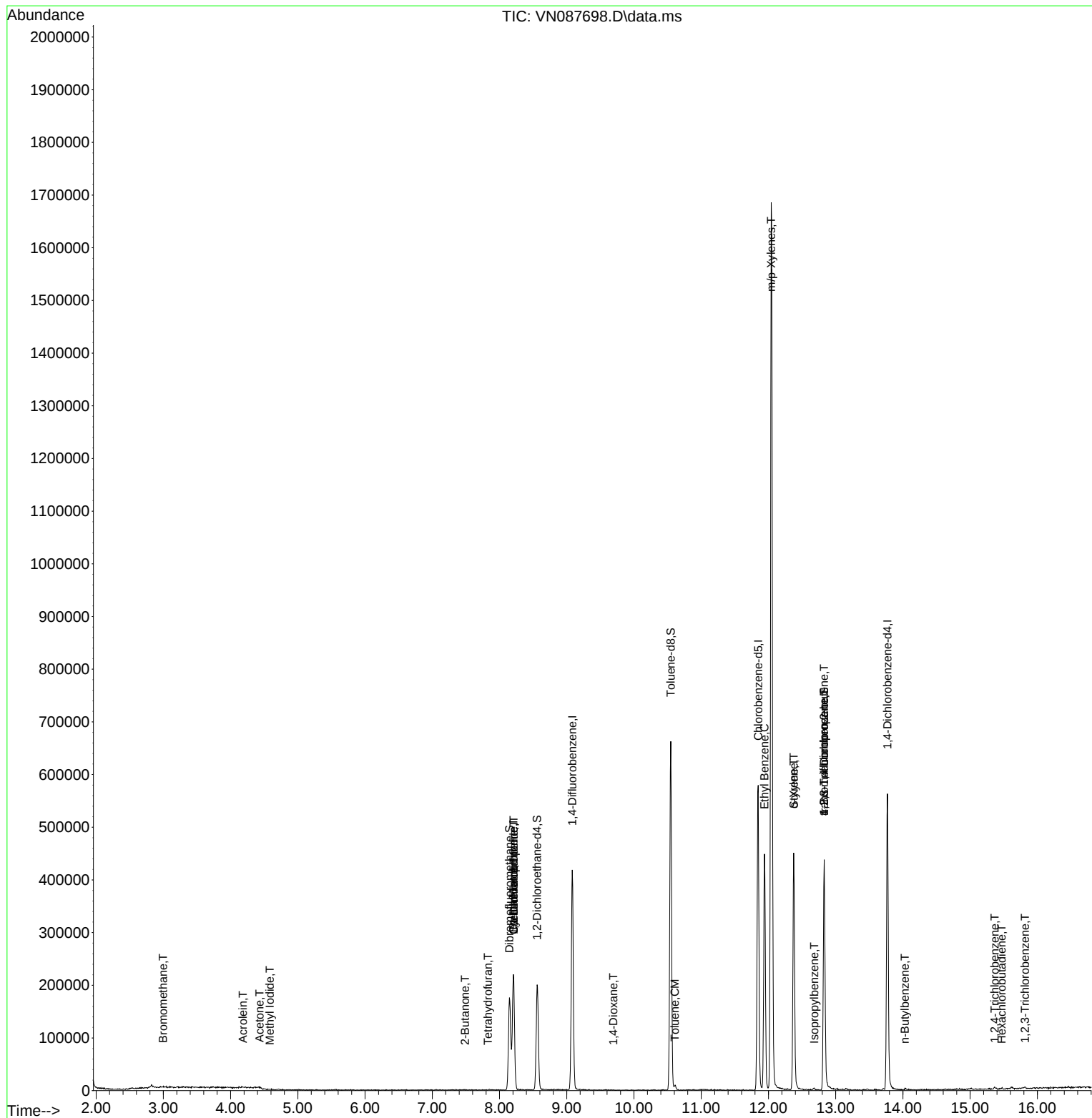
Internal Standards						
1) Pentafluorobenzene	8.206	168	144470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	341905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	313398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	145966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	164424	55.548	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.100%			
35) Dibromofluoromethane	8.147	113	122584	49.658	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.320%			
50) Toluene-d8	10.547	98	431806	46.736	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.480%			
62) 4-Bromofluorobenzene	12.829	95	155502	47.326	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.660%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	789	0.625	ug/l #	63
10) Methyl Iodide	4.583	142	79	6.856	ug/l #	38
13) Acrolein	4.183	56	647	1.024	ug/l	96
16) Acetone	4.430	43	1864	1.157	ug/l #	47
20) Methylene Chloride	5.271	84	82	Below Cal	#	5
25) 2-Butanone	7.489	43	616	0.291	ug/l #	50
29) Tetrahydrofuran	7.830	42	612	0.449	ug/l #	53
31) Cyclohexane	8.212	56	5290	1.421	ug/l #	51
36) 1,1-Dichloropropene	8.212	75	15342	4.051	ug/l #	54
38) Carbon Tetrachloride	8.212	117	18963	5.072	ug/l #	15
49) 1,4-Dioxane	9.694	88	102	2.059	ug/l #	13
52) Toluene	10.606	92	3402	0.472	ug/l	88
67) Ethyl Benzene	11.941	91	324437	24.033	ug/l	100
68) m/p-Xylenes	12.041	106	493325	99.643	ug/l	99
69) o-Xylene	12.376	106	123419	25.437	ug/l	100
70) Styrene	12.376	104	7361	0.906	ug/l #	1
73) Isopropylbenzene	12.682	105	2723	0.231	ug/l #	72
76) 1,2,3-Trichloropropane	12.829	75	89952	26.279	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	89952	69.570	ug/l #	1
89) n-Butylbenzene	14.029	91	2508	0.247	ug/l #	61
93) 1,2,4-Trichlorobenzene	15.364	180	888	0.285	ug/l #	82
94) Hexachlorobutadiene	15.470	225	250	0.225	ug/l	71
96) 1,2,3-Trichlorobenzene	15.817	180	1054	0.346	ug/l #	84

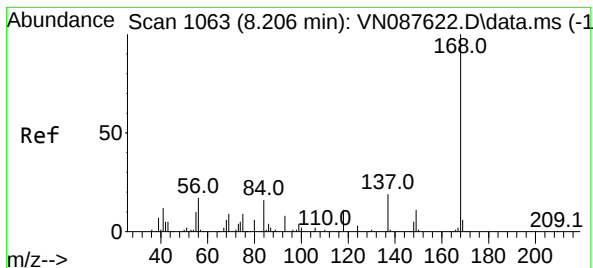
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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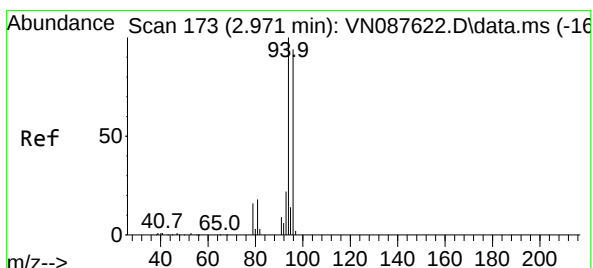
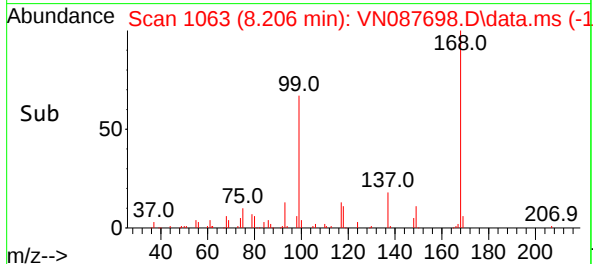
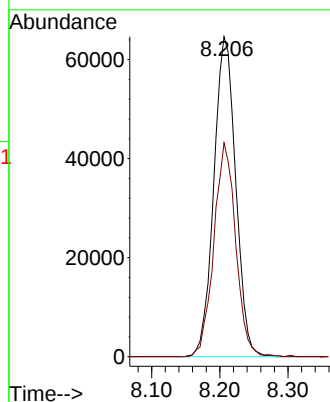
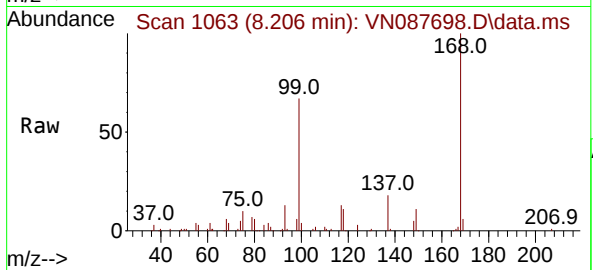




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

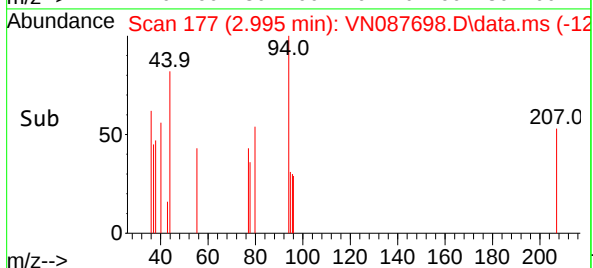
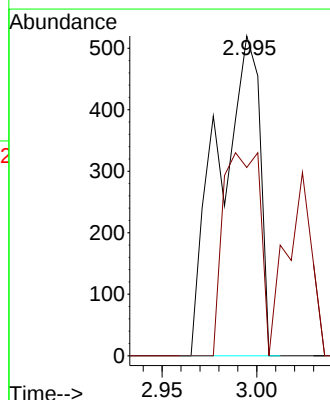
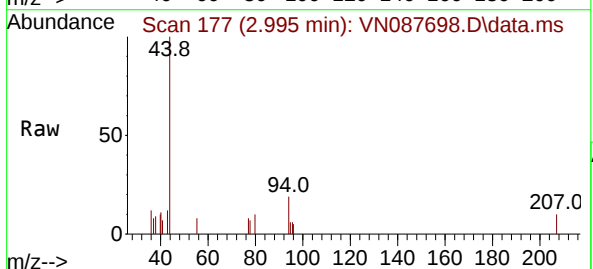
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

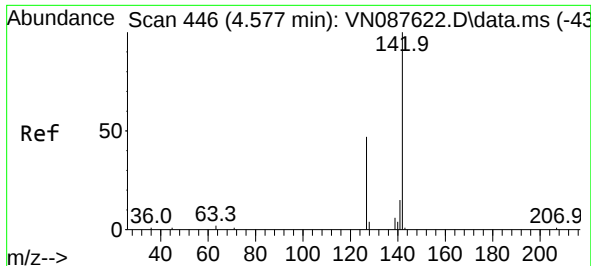
Tgt Ion:168 Resp: 144470
Ion Ratio Lower Upper
168 100
99 66.8 57.2 85.8



#5
Bromomethane
Concen: 0.625 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

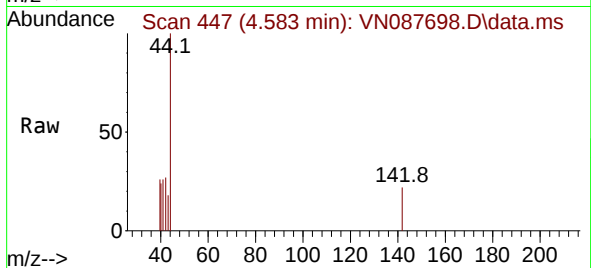
Tgt Ion: 94 Resp: 789
Ion Ratio Lower Upper
94 100
96 58.8 75.4 113.2#



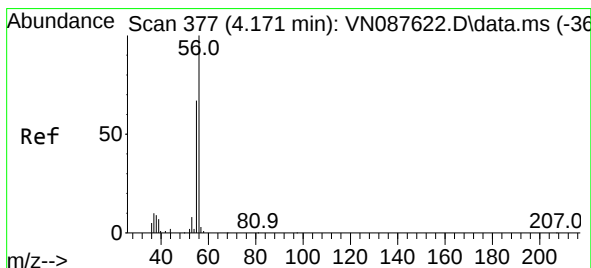
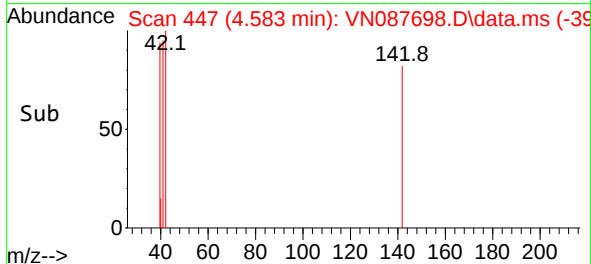
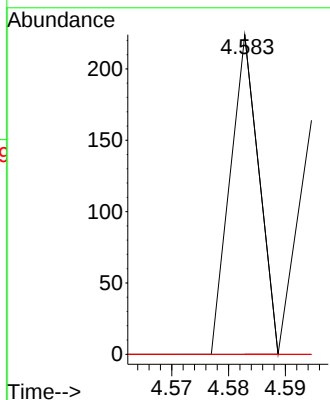


#10
Methyl Iodide
Concen: 6.856 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

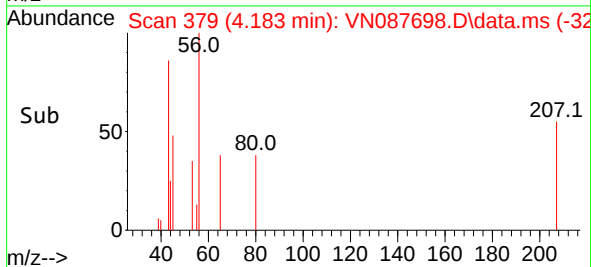
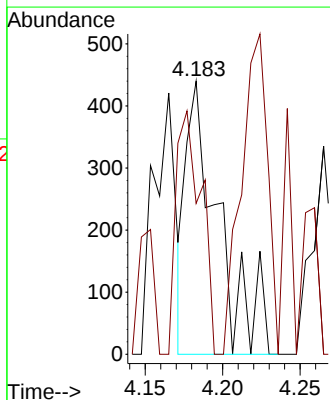
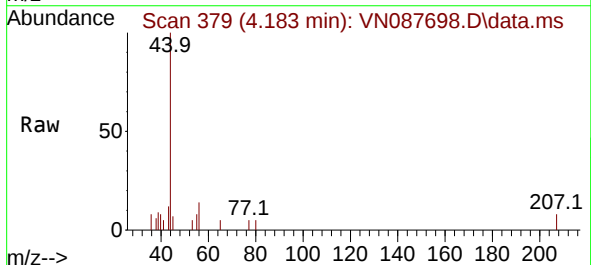


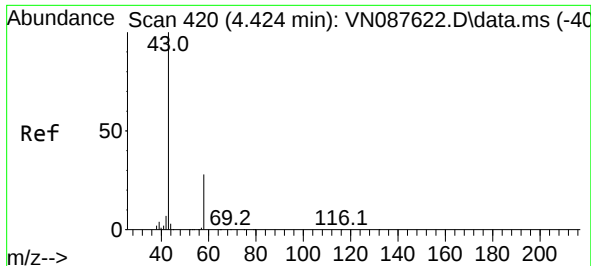
Tgt Ion:142 Resp: 79
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 1.024 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 56 Resp: 647
Ion Ratio Lower Upper
56 100
55 68.5 57.3 85.9

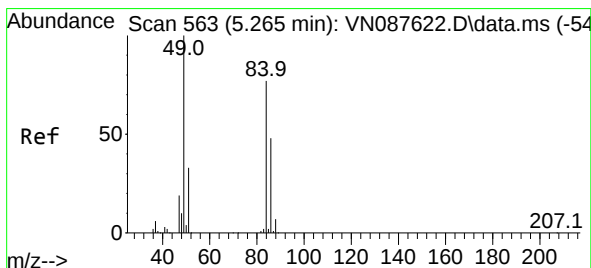
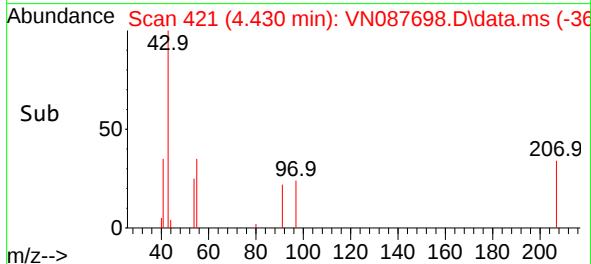
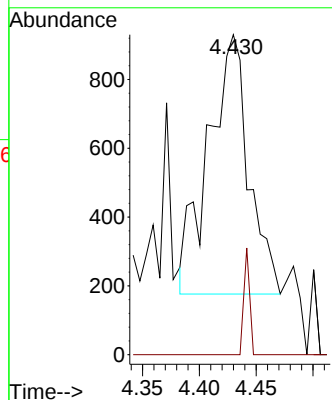
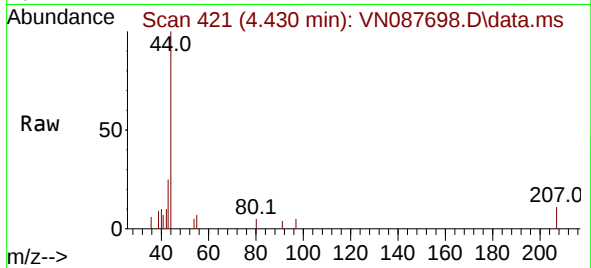




#16
Acetone
Concen: 1.157 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

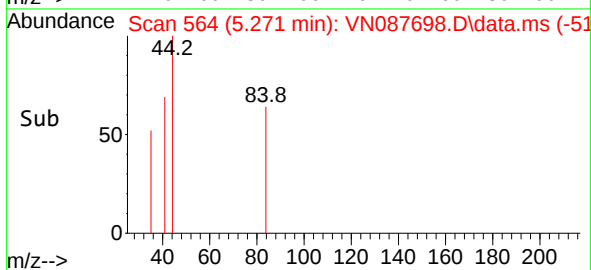
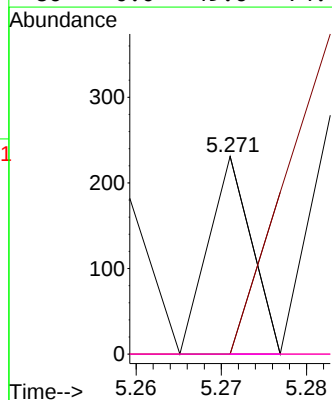
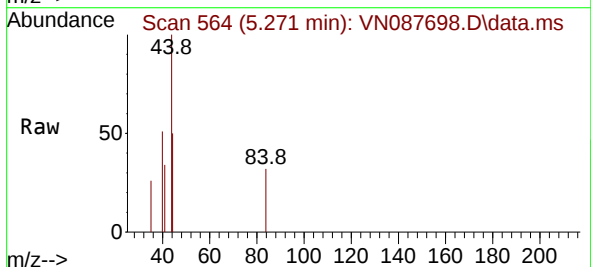
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

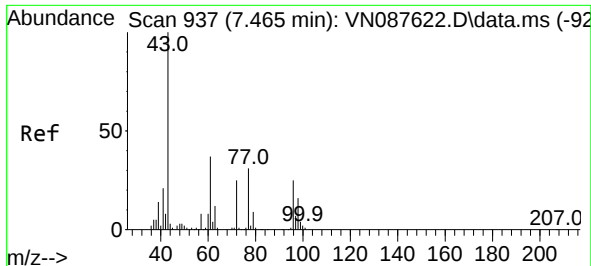
Tgt Ion: 43 Resp: 1864
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 84 Resp: 82
Ion Ratio Lower Upper
84 100
49 0.0 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

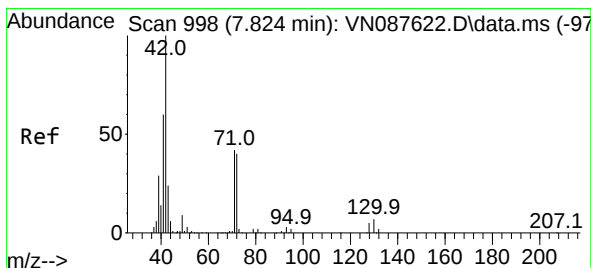
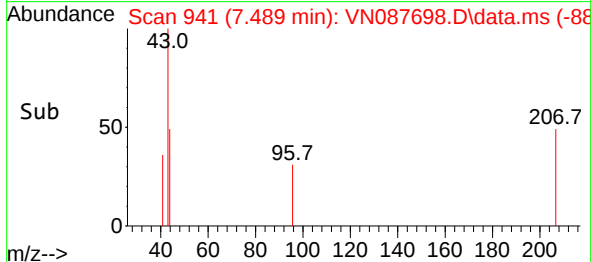
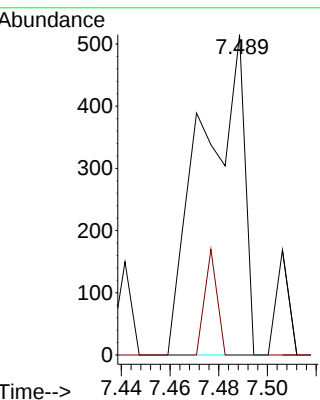
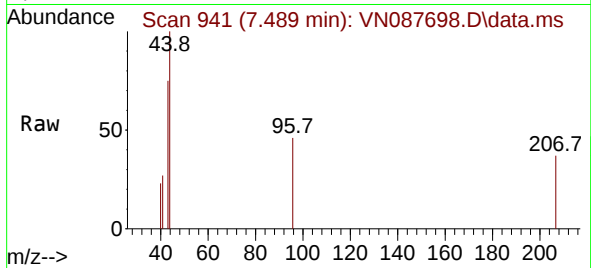




#25
2-Butanone
Concen: 0.291 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.024 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

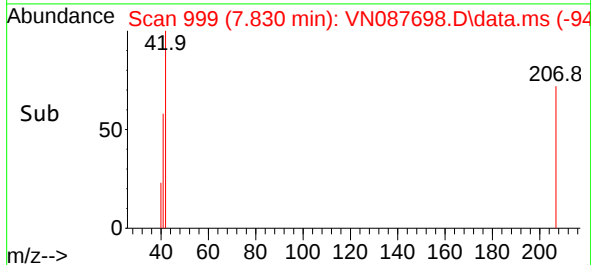
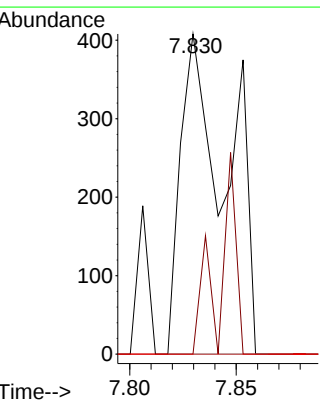
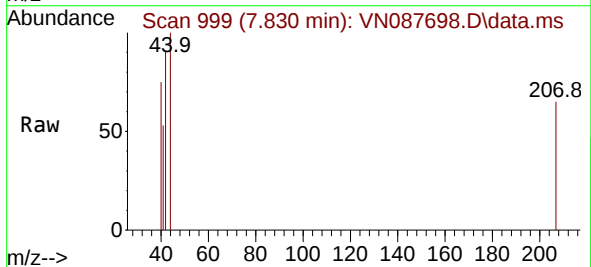
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

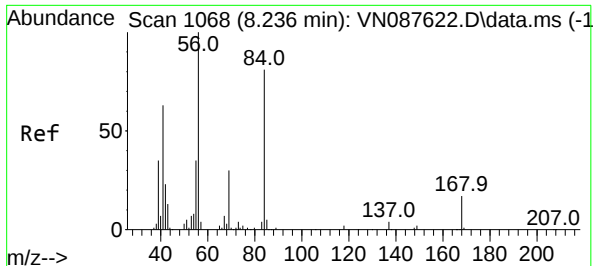
Tgt Ion: 43 Resp: 616
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.449 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 42 Resp: 612
Ion Ratio Lower Upper
42 100
72 23.5 33.7 50.5#
71 0.0 31.9 47.9#

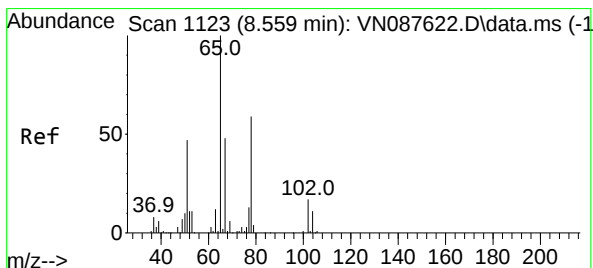
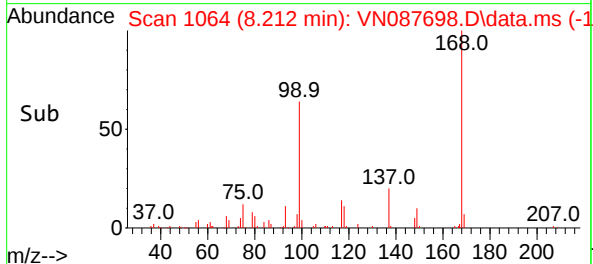
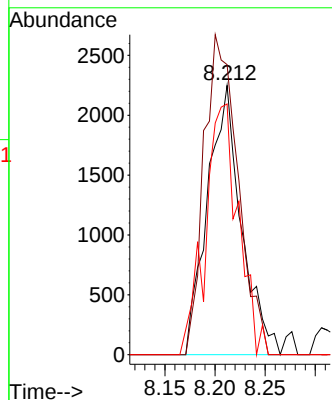
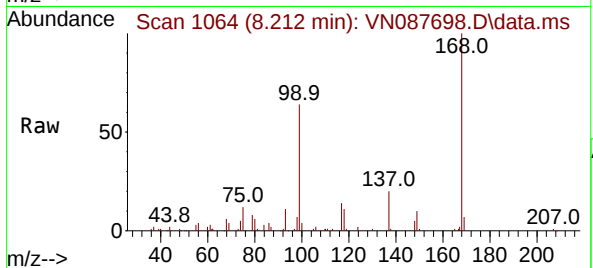




#31
Cyclohexane
Concen: 1.421 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

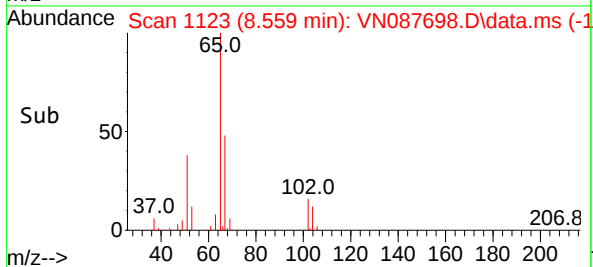
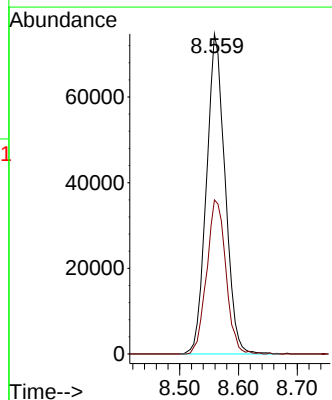
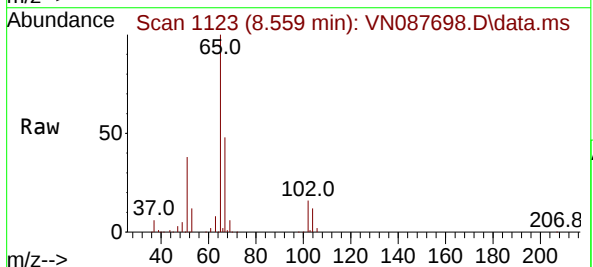
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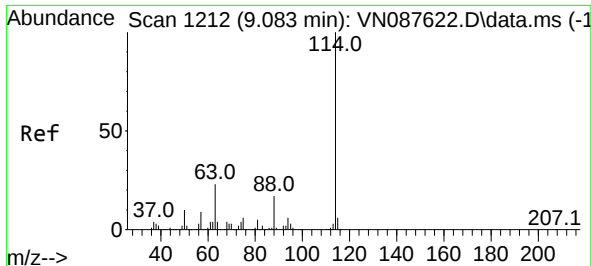
Tgt Ion: 56 Resp: 5290
Ion Ratio Lower Upper
56 100
69 107.7 23.7 35.5#
84 93.1 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 55.548 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 65 Resp: 164424
Ion Ratio Lower Upper
65 100
67 49.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

RPXY1RDL

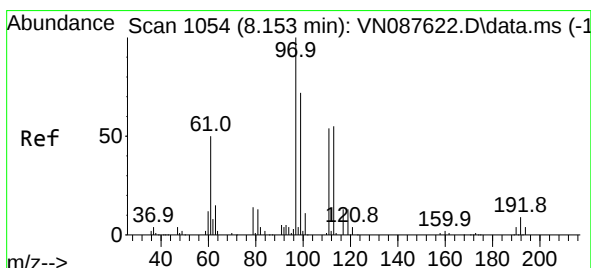
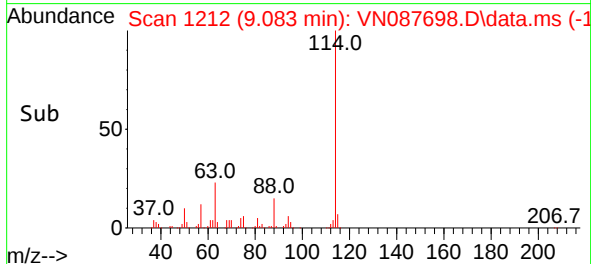
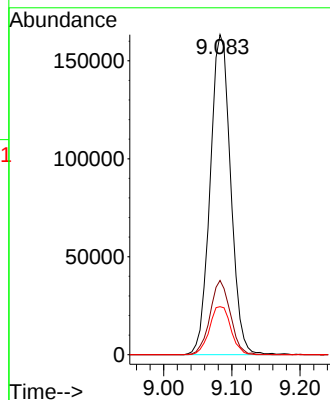
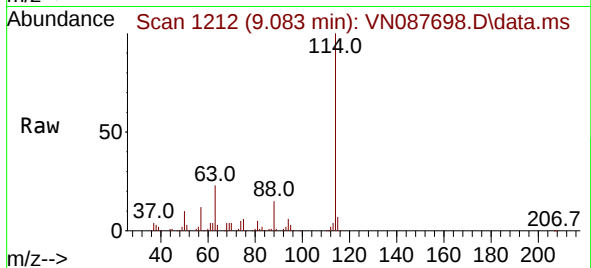
Tgt Ion:114 Resp: 341905

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.2

88 15.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.658 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

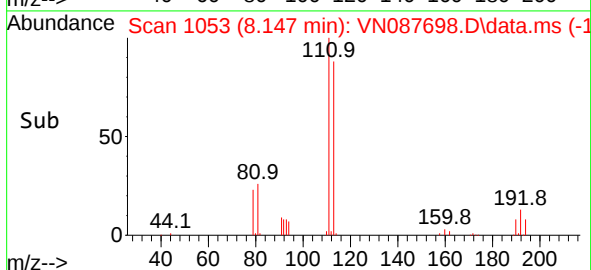
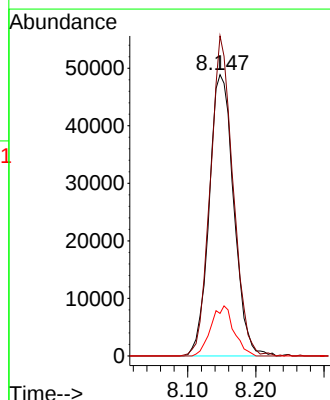
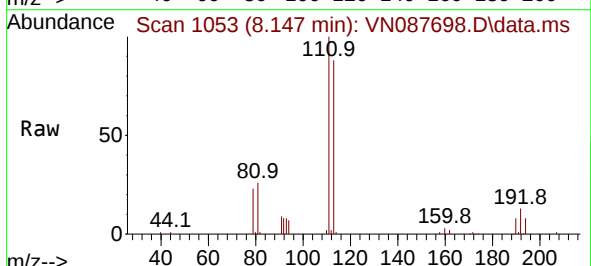
Tgt Ion:113 Resp: 122584

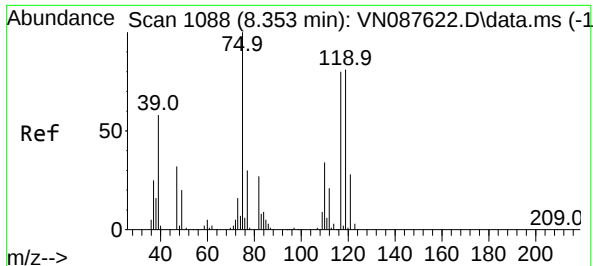
Ion Ratio Lower Upper

113 100

111 105.4 82.8 124.2

192 16.7 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.051 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

Instrument :

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RPXY1RDL

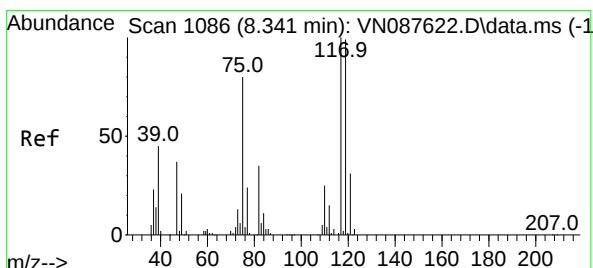
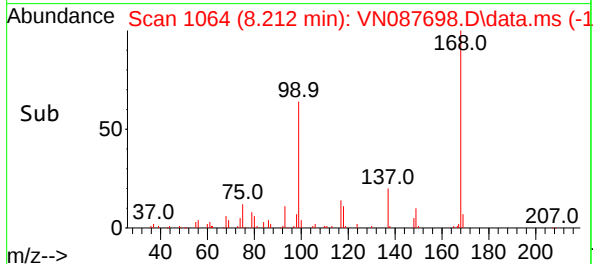
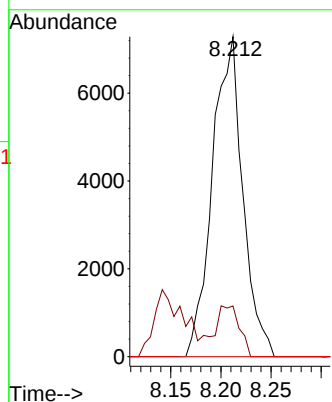
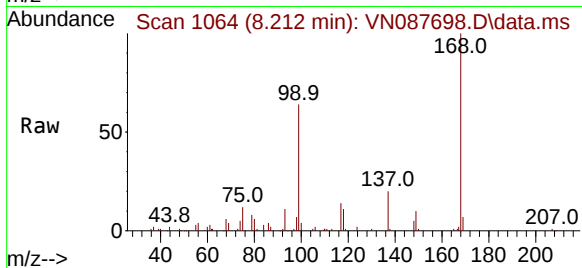
Tgt Ion: 75 Resp: 15342

Ion Ratio Lower Upper

75 100

110 11.5 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.072 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.129 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

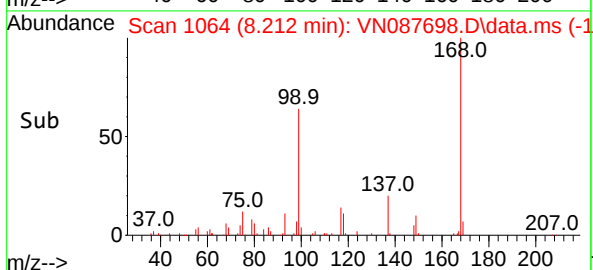
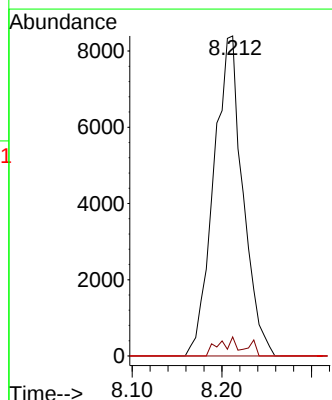
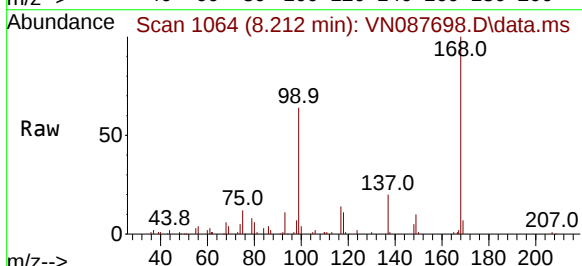
Tgt Ion: 117 Resp: 18963

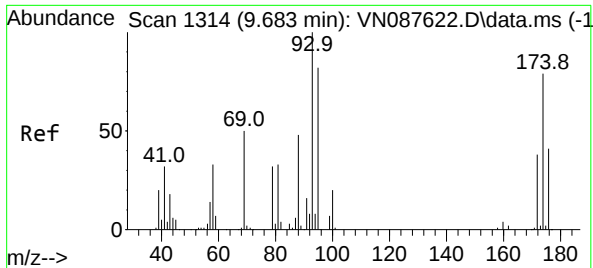
Ion Ratio Lower Upper

117 100

119 6.0 79.0 118.6#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 2.059 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

RPXY1RDL

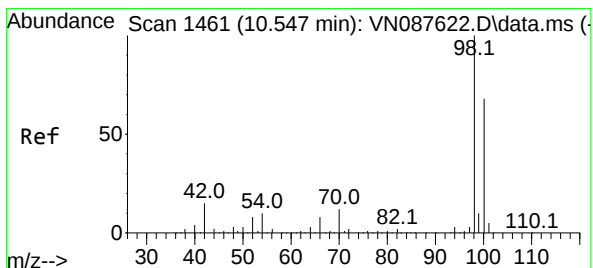
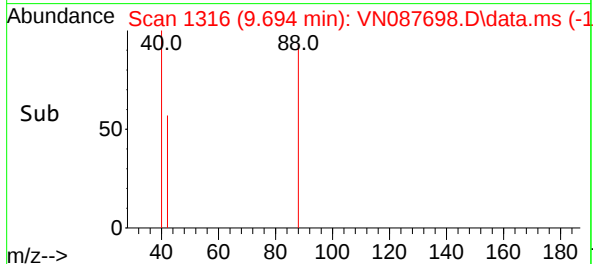
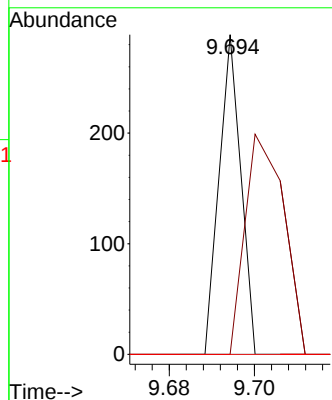
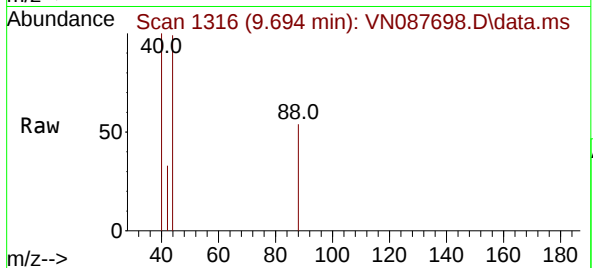
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 123.5 0.0 0.0#

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 46.736 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087698.D

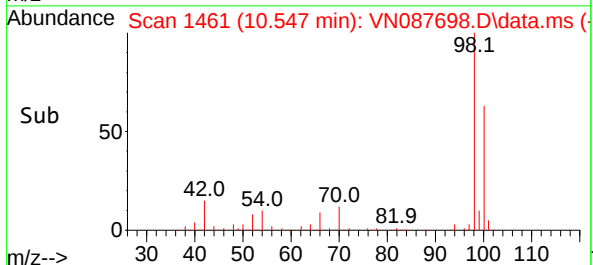
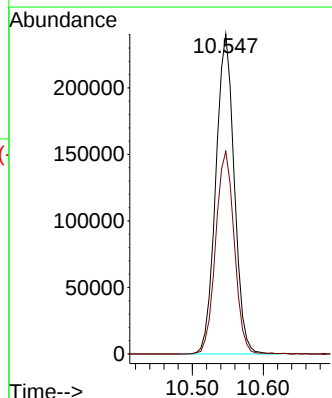
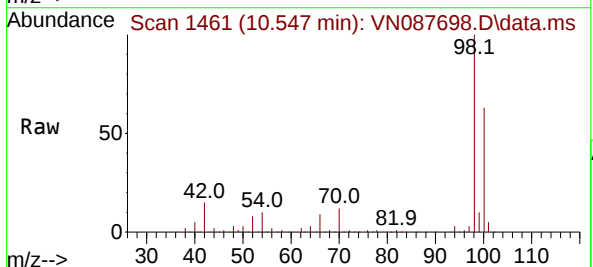
Acq: 29 Aug 2025 14:18

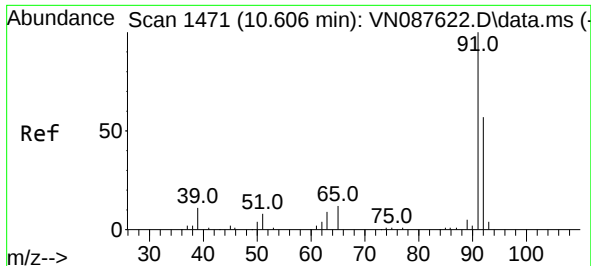
Tgt Ion: 98 Resp: 431806

Ion Ratio Lower Upper

98 100

100 63.9 52.8 79.2

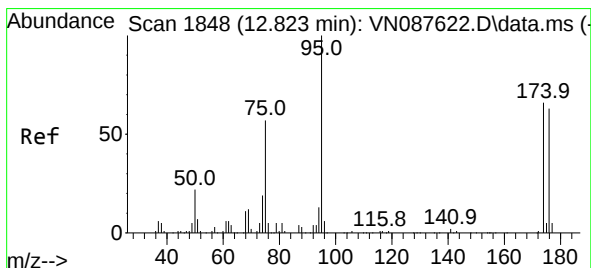
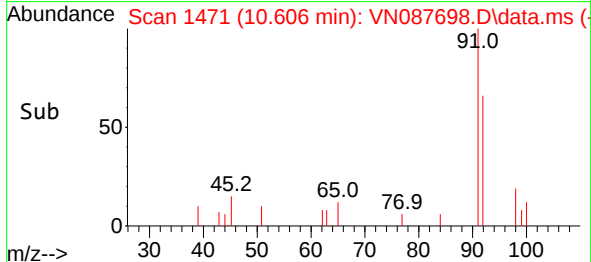
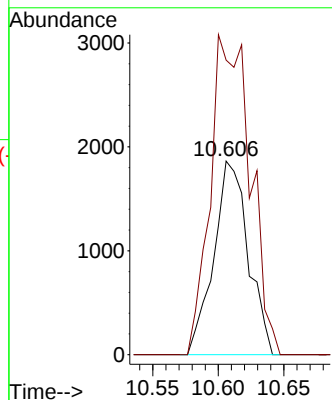
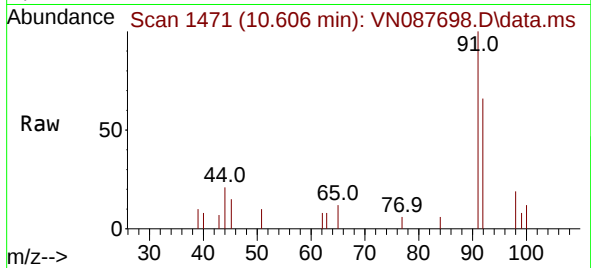




#52
Toluene
Concen: 0.472 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

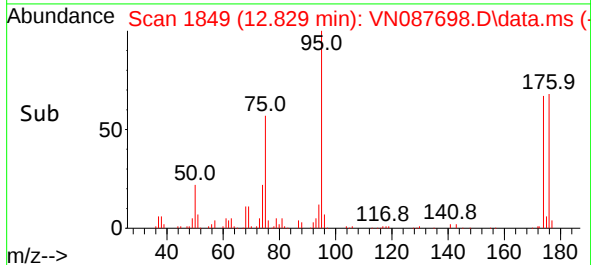
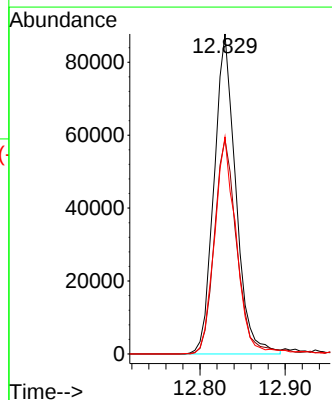
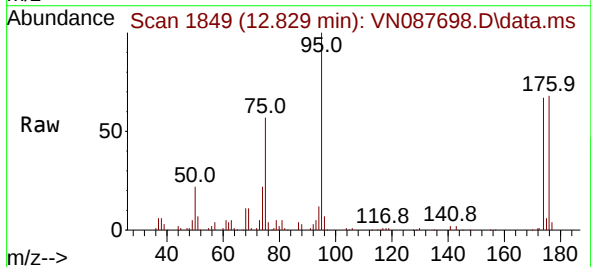
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

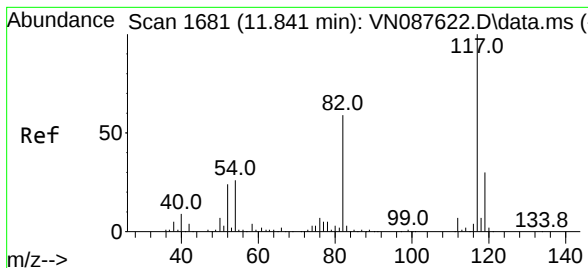
Tgt Ion: 92 Resp: 3402
Ion Ratio Lower Upper
92 100
91 191.7 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 47.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 95 Resp: 155502
Ion Ratio Lower Upper
95 100
174 69.5 0.0 138.4
176 67.8 0.0 132.6

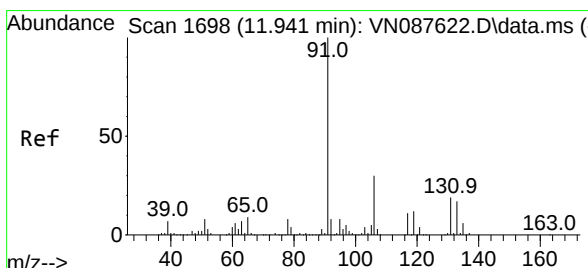
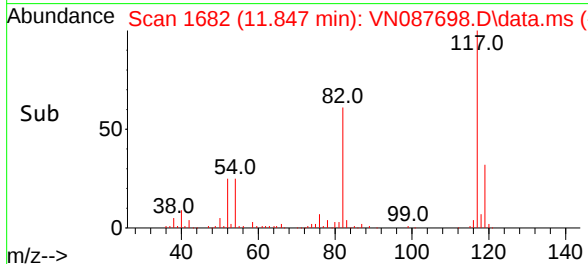
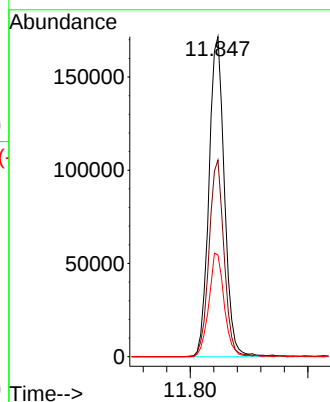
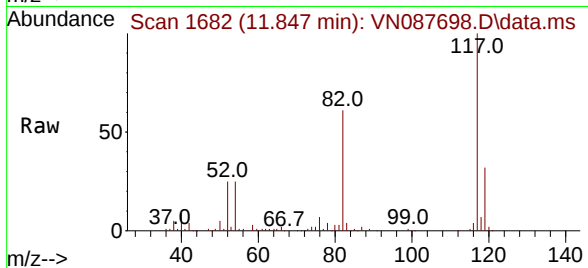




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

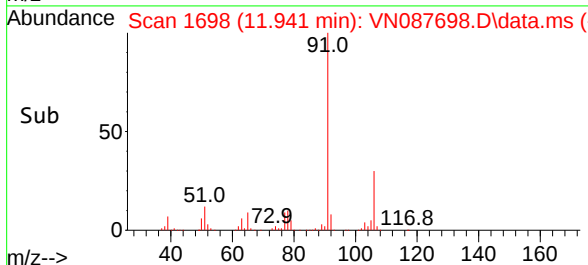
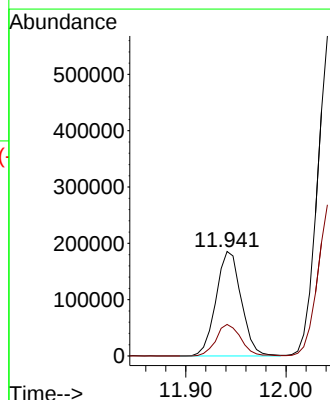
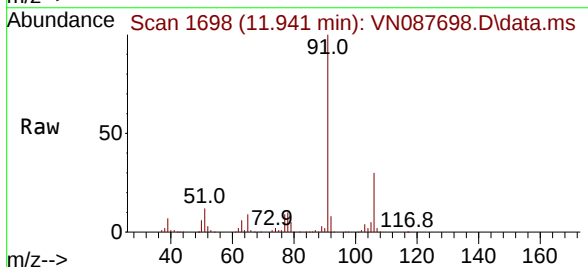
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

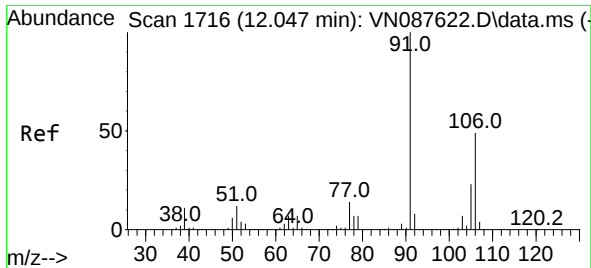
Tgt Ion:117 Resp: 313398
Ion Ratio Lower Upper
117 100
82 61.5 47.4 71.2
119 31.8 24.3 36.5



#67
Ethyl Benzene
Concen: 24.033 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 91 Resp: 324437
Ion Ratio Lower Upper
91 100
106 30.2 24.1 36.1

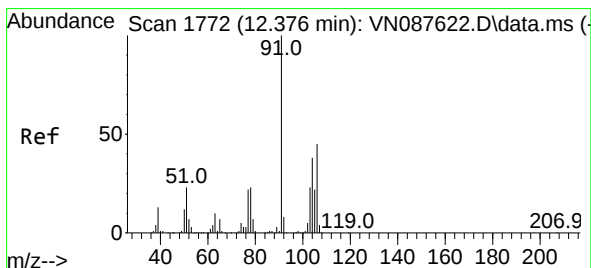
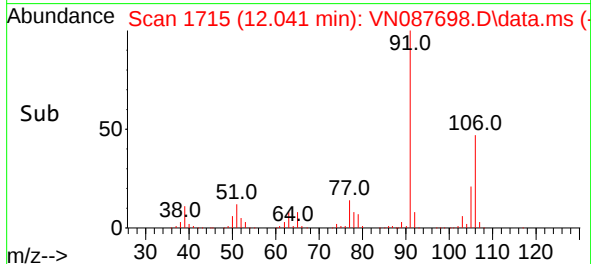
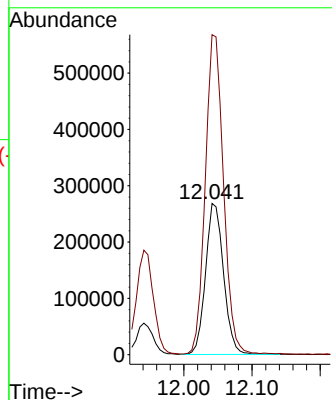
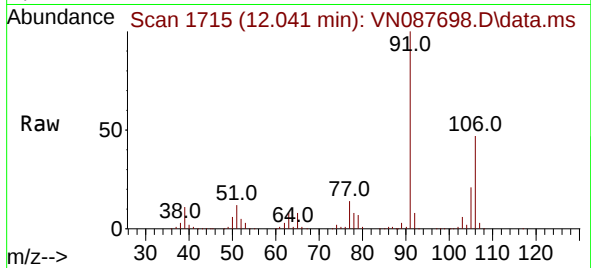




#68
m/p-Xylenes
Concen: 99.643 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

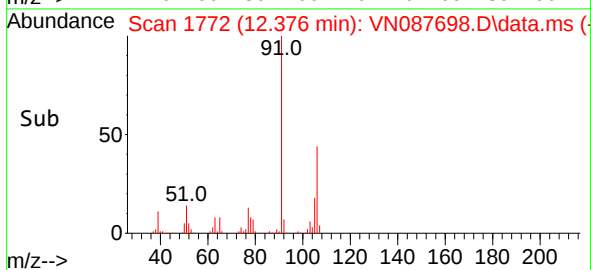
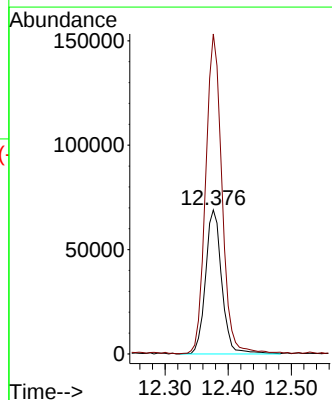
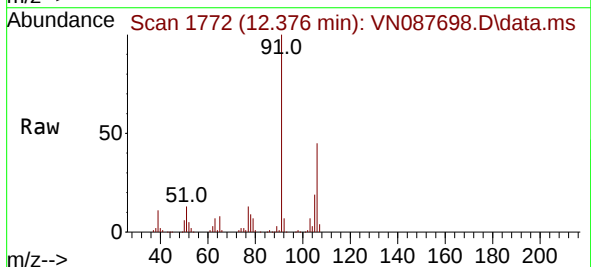
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

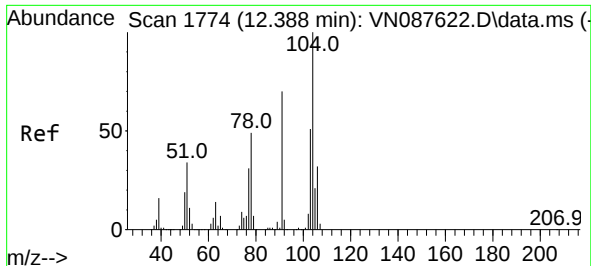
Tgt Ion:106 Resp: 493325
Ion Ratio Lower Upper
106 100
91 213.1 169.3 253.9



#69
o-Xylene
Concen: 25.437 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion:106 Resp: 123419
Ion Ratio Lower Upper
106 100
91 222.6 111.4 334.2

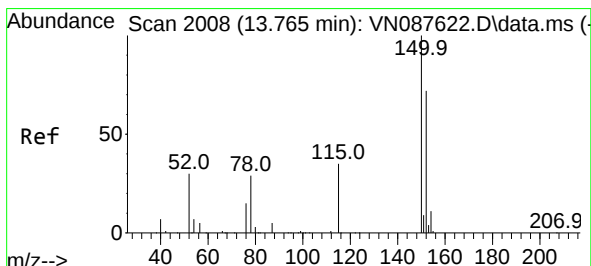
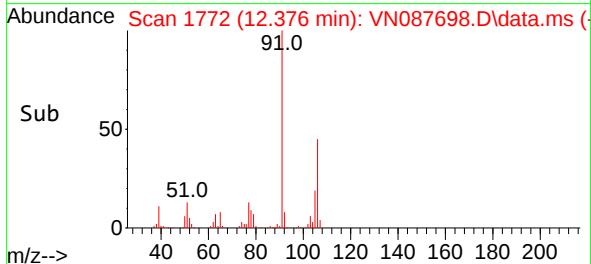
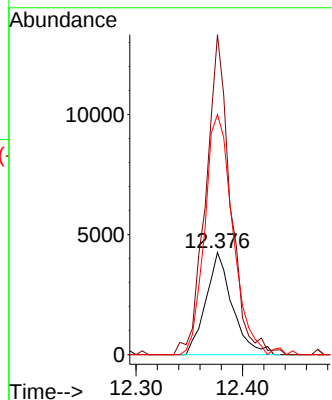
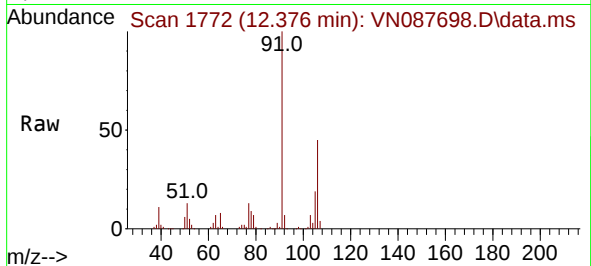




#70
Styrene
Concen: 0.906 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

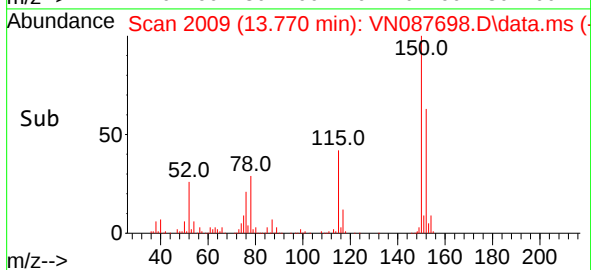
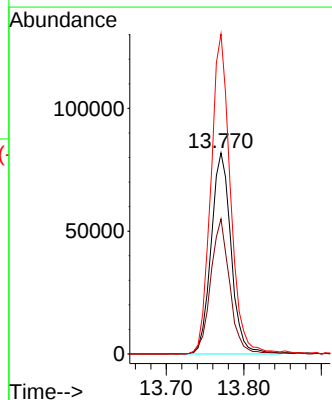
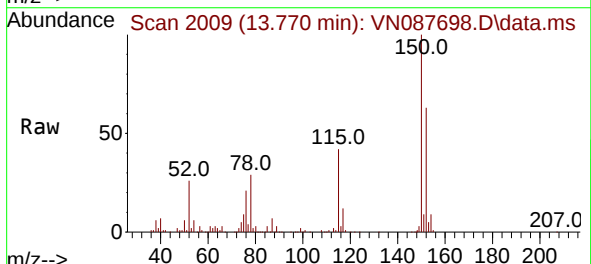
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

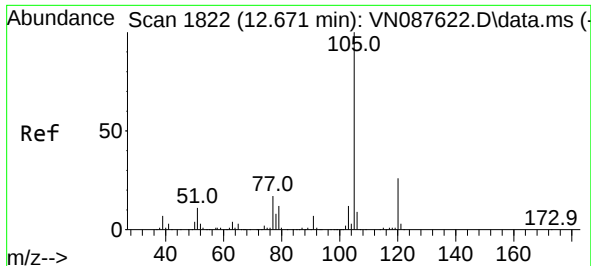
Tgt Ion:104 Resp: 7361
Ion Ratio Lower Upper
104 100
78 292.9 42.2 63.2#
103 248.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion:152 Resp: 145966
Ion Ratio Lower Upper
152 100
115 64.5 32.3 96.8
150 156.8 0.0 351.0

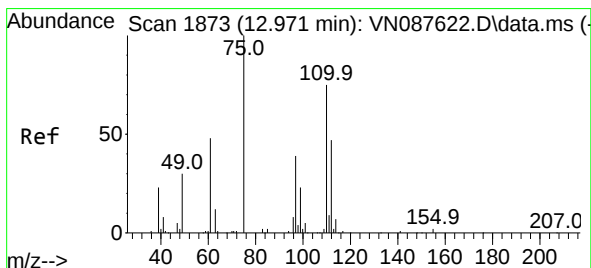
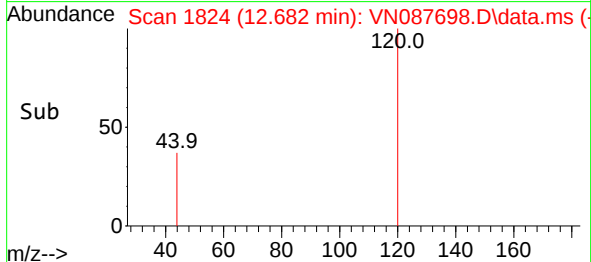
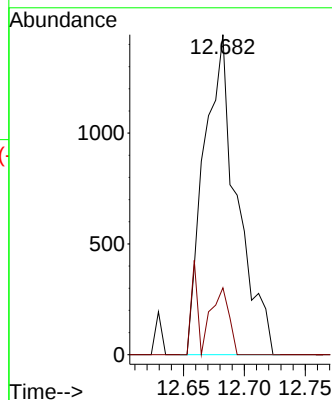
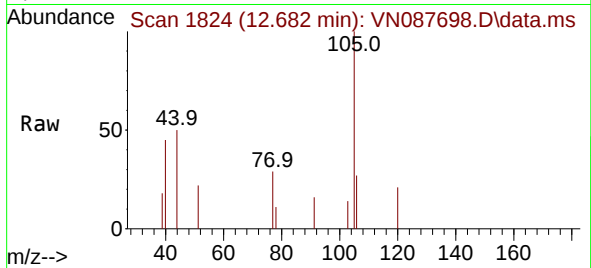




#73
Isopropylbenzene
Concen: 0.231 ug/l
RT: 12.682 min Scan# 1824
Delta R.T. 0.012 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

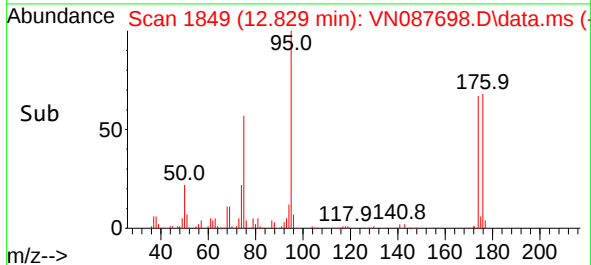
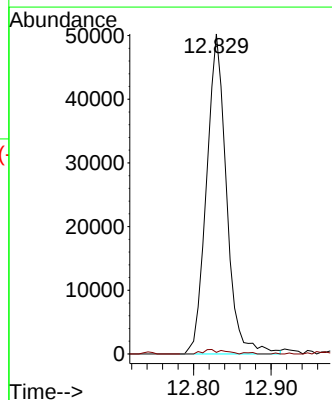
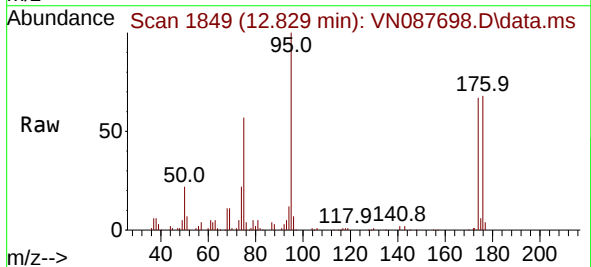
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

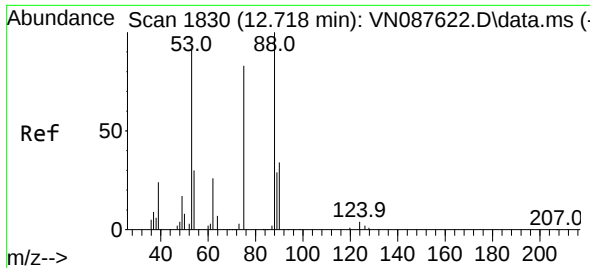
Tgt Ion:105 Resp: 2723
Ion Ratio Lower Upper
105 100
120 11.5 12.8 38.3#



#76
1,2,3-Trichloropropane
Concen: 26.279 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 75 Resp: 89952
Ion Ratio Lower Upper
75 100
77 1.4 89.1 267.4#

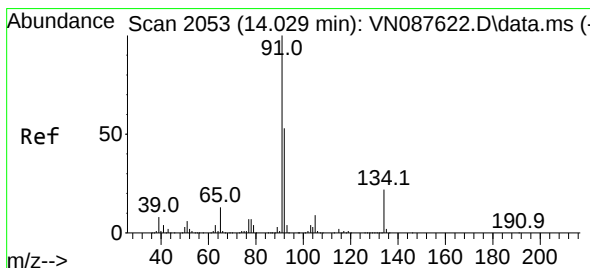
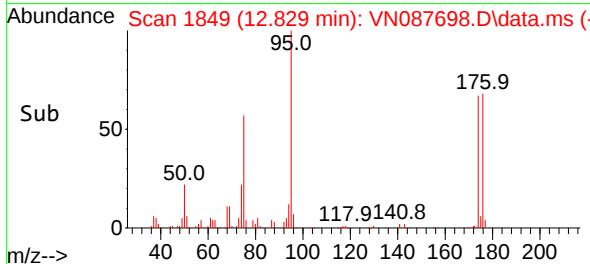
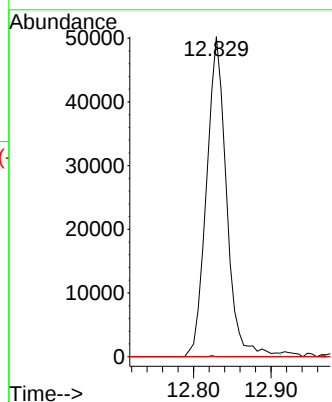
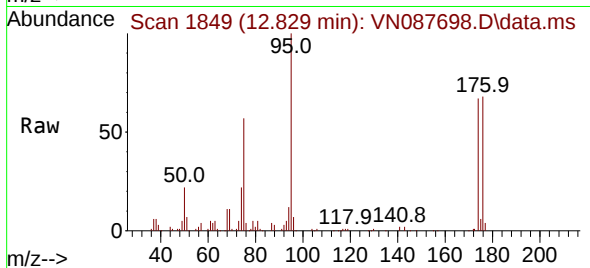




#81
trans-1,4-Dichloro-2-butene
Concen: 69.570 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

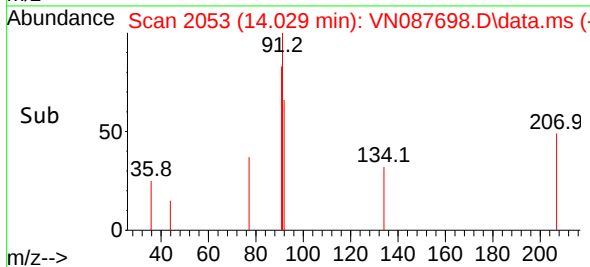
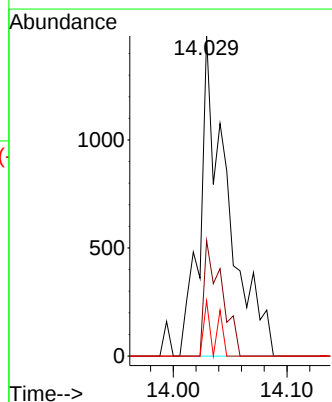
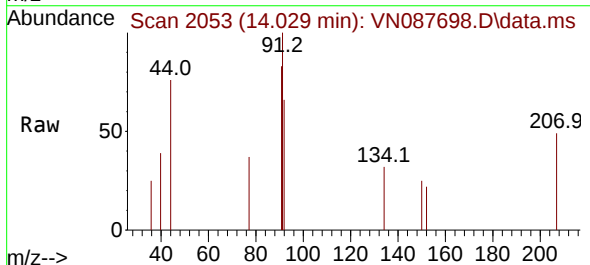
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ClientSampleId :
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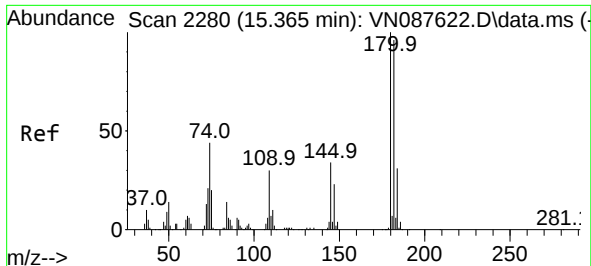
Tgt Ion: 75 Resp: 89952
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#



#89
n-Butylbenzene
Concen: 0.247 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 91 Resp: 2508
Ion Ratio Lower Upper
91 100
92 22.8 25.9 77.8#
134 6.6 11.7 35.0#

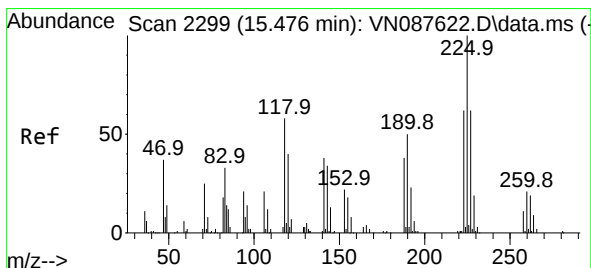
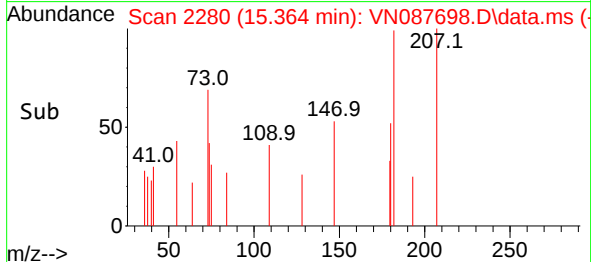
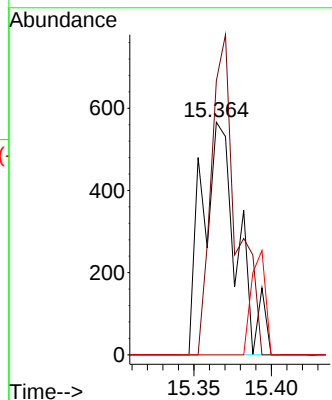
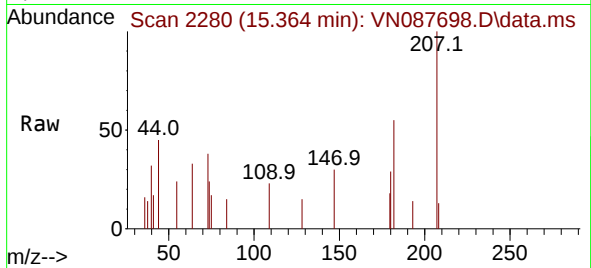




#93
1,2,4-Trichlorobenzene
Concen: 0.285 ug/l
RT: 15.364 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

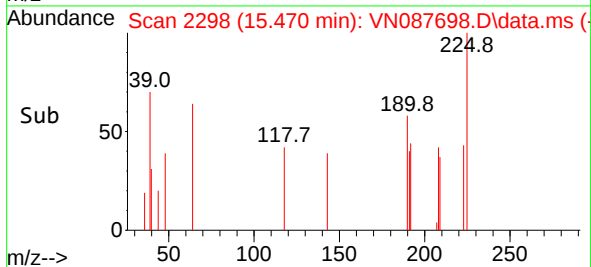
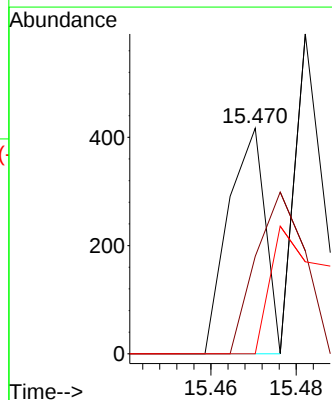
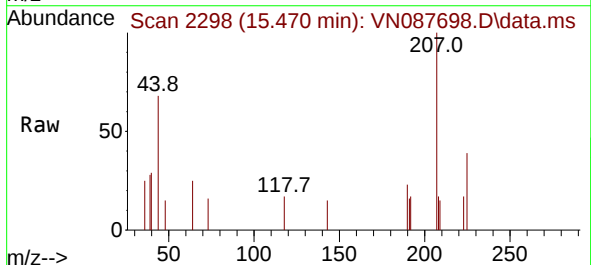
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ClientSampleId :
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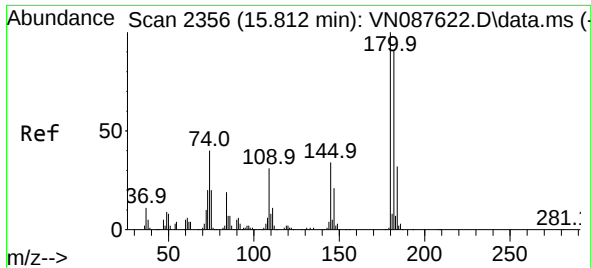
Tgt Ion:180 Resp: 888
Ion Ratio Lower Upper
180 100
182 98.6 47.6 142.9
145 0.0 16.5 49.5#



#94
Hexachlorobutadiene
Concen: 0.225 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion:225 Resp: 250
Ion Ratio Lower Upper
225 100
223 94.4 32.0 96.2
227 80.0 32.1 96.5





#96
 1,2,3-Trichlorobenzene
 Concen: 0.346 ug/l
 RT: 15.817 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087698.D
 Acq: 29 Aug 2025 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 RPXY1RDL

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.1	46.8	140.3
145	10.9	17.3	52.0

