

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087538.D
 Acq On : 13 Aug 2025 16:21
 Operator : JC\MD
 Sample : Q2732-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:03:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

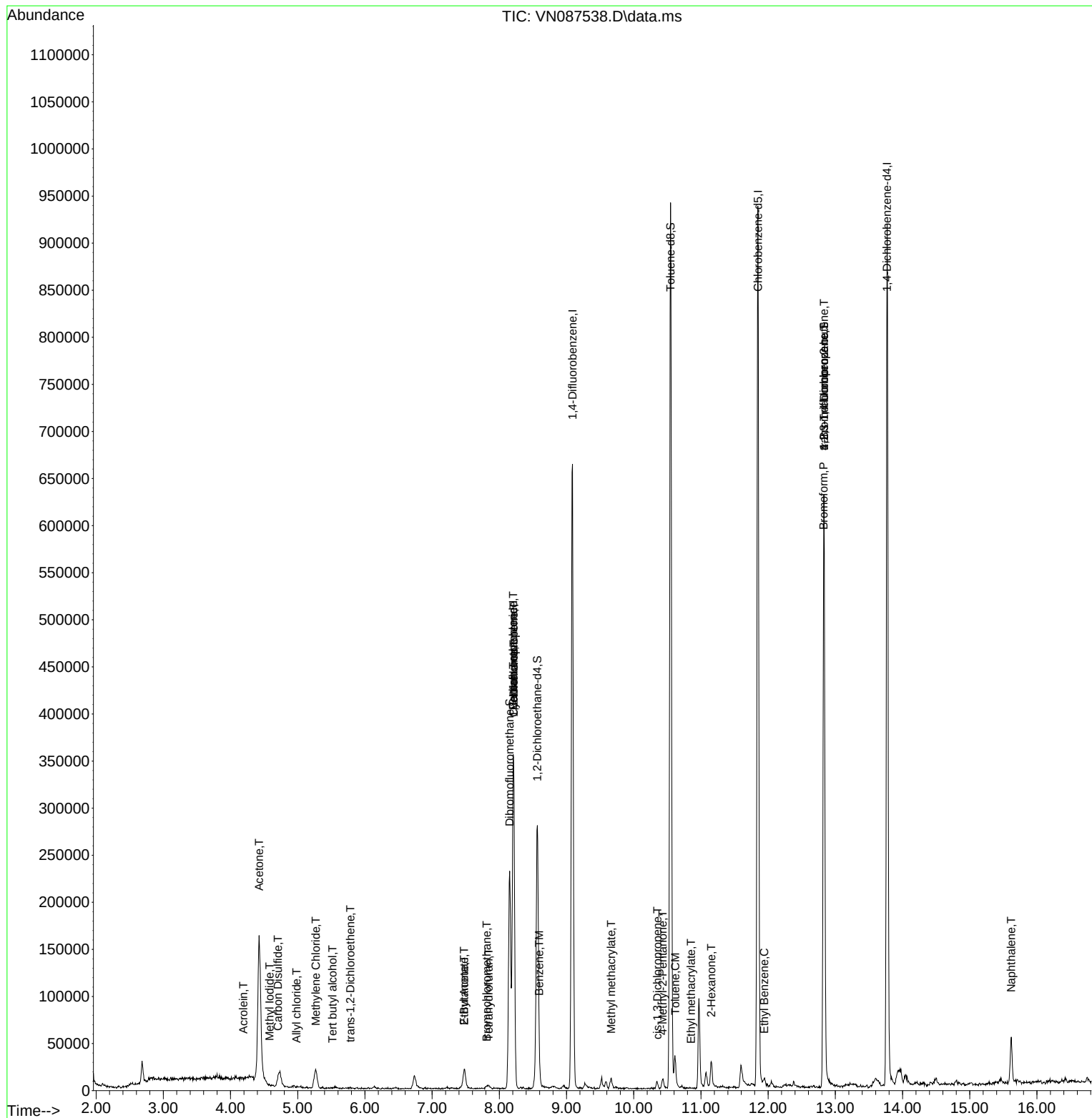
Internal Standards						
1) Pentafluorobenzene	8.206	168	239708	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	533270	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	494800	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	227638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	239523	58.889	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.780%			
35) Dibromofluoromethane	8.153	113	161141	43.806	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 87.620%			
50) Toluene-d8	10.547	98	624414	47.587	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.180%			
62) 4-Bromofluorobenzene	12.829	95	228200	47.073	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.140%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.583	142	167	5.691	ug/l #	40
11) Tert butyl alcohol	5.518	59	350	0.453	ug/l #	72
13) Acrolein	4.189	56	1037	1.673	ug/l #	72
14) Allyl chloride	4.983	41	1016	0.205	ug/l #	21
16) Acetone	4.424	43	292723	153.495	ug/l	97
17) Carbon Disulfide	4.706	76	4378	0.540	ug/l #	89
20) Methylene Chloride	5.271	84	14756	3.988	ug/l #	83
21) trans-1,2-Dichloroethene	5.783	96	672	0.218	ug/l #	41
25) 2-Butanone	7.477	43	36044	12.232	ug/l	97
28) Bromochloromethane	7.812	49	619	0.216	ug/l #	44
29) Tetrahydrofuran	7.841	42	3033	1.584	ug/l #	48
31) Cyclohexane	8.212	56	7628	1.526	ug/l #	12
36) 1,1-Dichloropropene	8.212	75	24973	5.139	ug/l #	52
37) Ethyl Acetate	7.477	43	36044	5.135	ug/l #	70
38) Carbon Tetrachloride	8.206	117	28232	5.273	ug/l #	13
40) Benzene	8.594	78	6507	0.414	ug/l #	78
48) Methyl methacrylate	9.665	41	2790	0.569	ug/l #	39
51) 4-Methyl-2-Pentanone	10.430	43	7951	1.154	ug/l #	68
52) Toluene	10.618	92	12182	1.276	ug/l	86
54) cis-1,3-Dichloropropene	10.353	75	1442	0.229	ug/l #	78
56) Ethyl methacrylate	10.853	69	53	0.643	ug/l #	1
59) 2-Hexanone	11.153	43	28459	6.224	ug/l #	25
67) Ethyl Benzene	11.941	91	5368	0.294	ug/l #	86
71) Bromoform	12.823	173	1200	0.393	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	134399	26.329	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	134399	72.040	ug/l #	8
95) Naphthalene	15.617	128	42077	2.927	ug/l	97

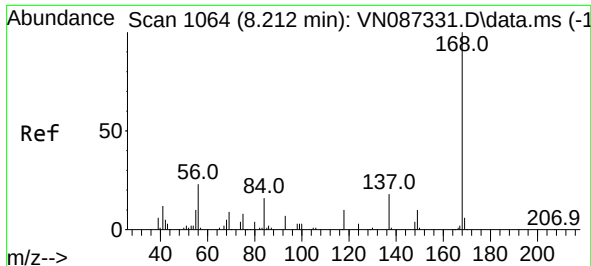
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 14 04:03:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

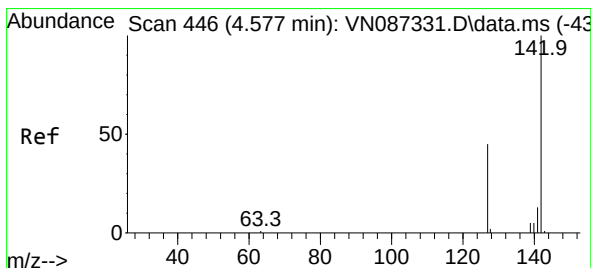
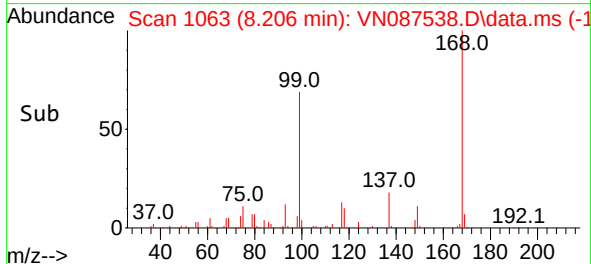
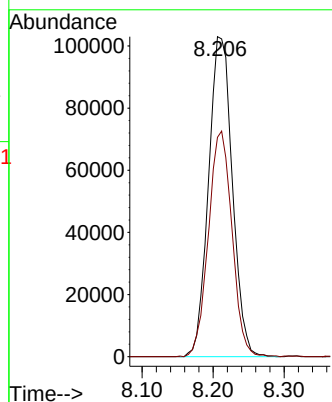
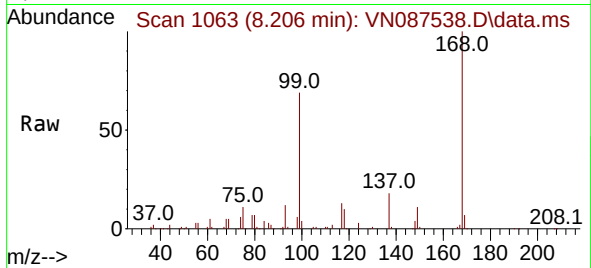




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

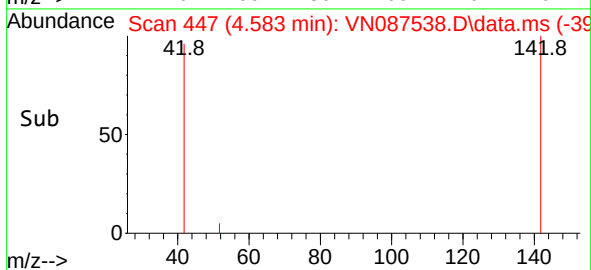
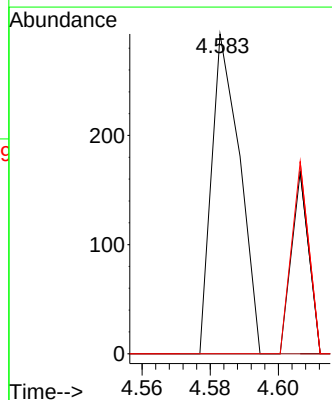
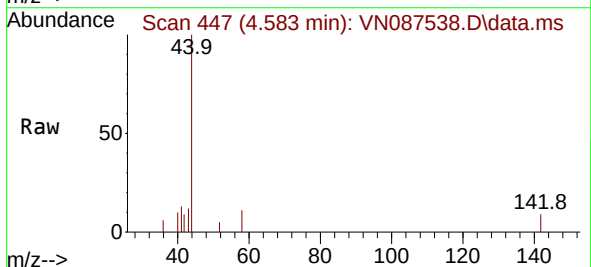
Instrument :
MSVOA_N
ClientSampleId :

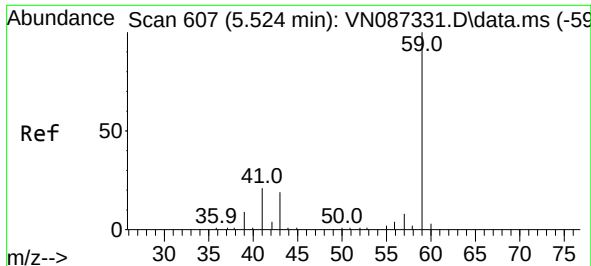
Tgt Ion:168 Resp: 239708
Ion Ratio Lower Upper
168 100
99 68.5 47.9 71.9



#10
Methyl Iodide
Concen: 5.691 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Tgt Ion:142 Resp: 167
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#





#11

Tert butyl alcohol

Concen: 0.453 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

Instrument :

MSVOA_N

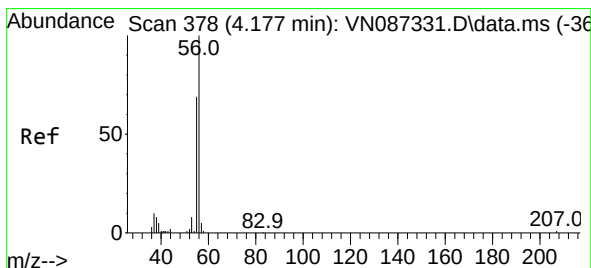
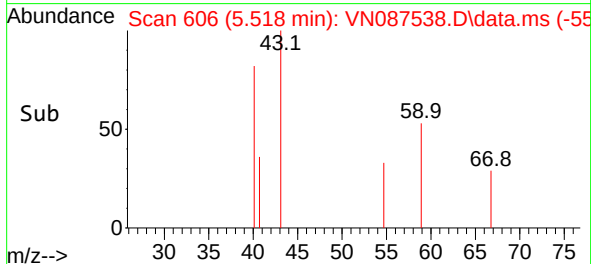
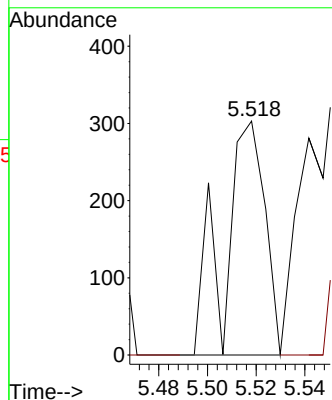
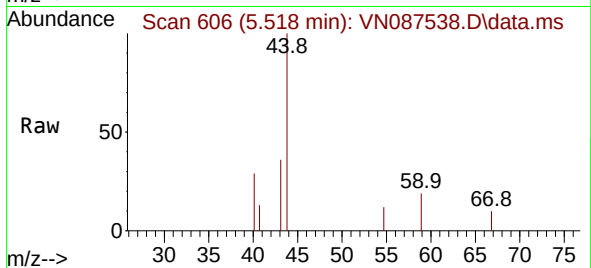
ClientSampleId :

Tgt Ion: 59 Resp: 350

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 1.673 ug/l

RT: 4.189 min Scan# 380

Delta R.T. 0.012 min

Lab File: VN087538.D

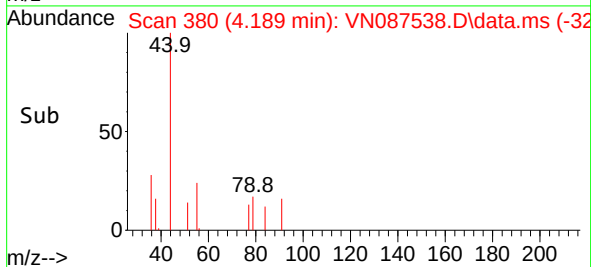
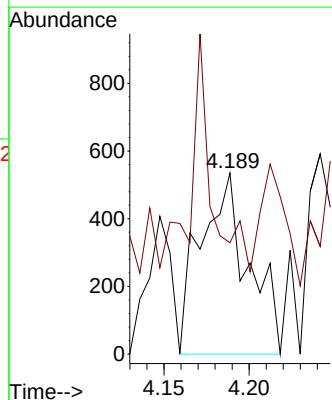
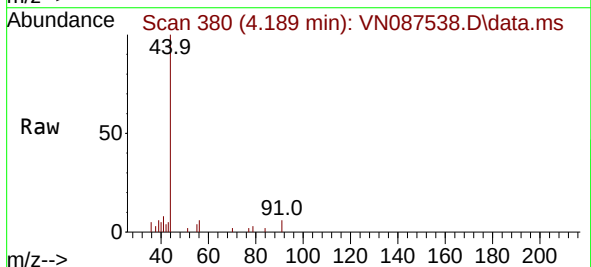
Acq: 13 Aug 2025 16:21

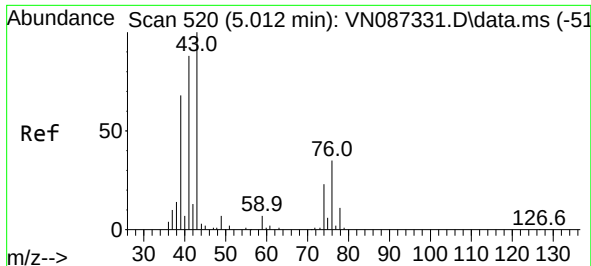
Tgt Ion: 56 Resp: 1037

Ion Ratio Lower Upper

56 100

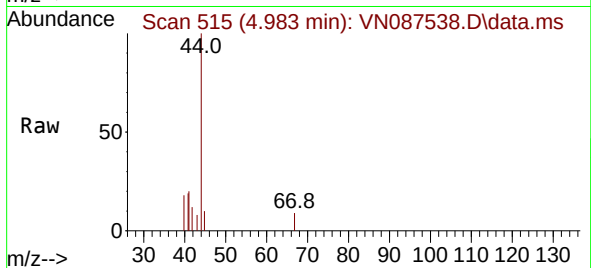
55 47.1 56.2 84.4#



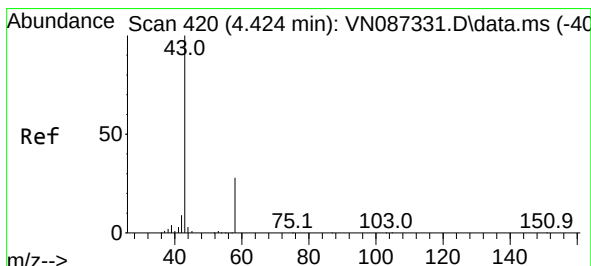
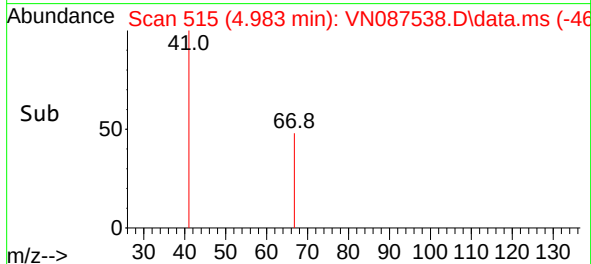
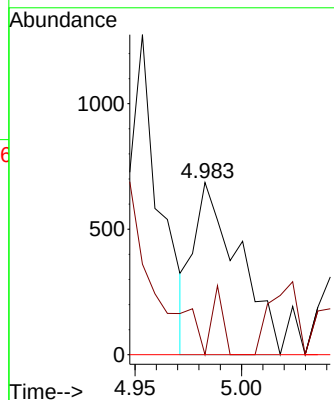


#14
 Allyl chloride
 Concen: 0.205 ug/l
 RT: 4.983 min Scan# 51
 Delta R.T. -0.029 min
 Lab File: VN087538.D
 Acq: 13 Aug 2025 16:21

Instrument :
 MSVOA_N
 ClientSampleId :

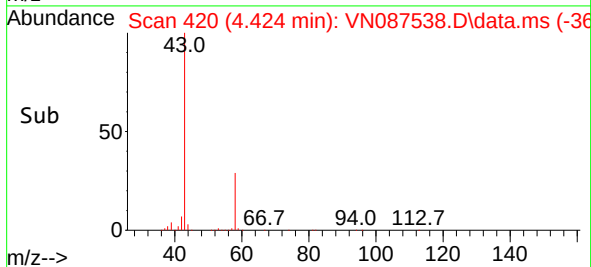
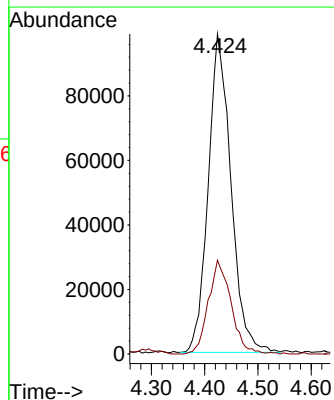
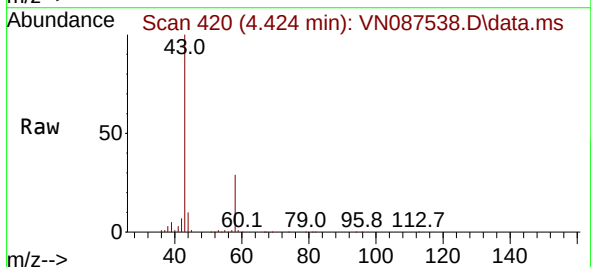


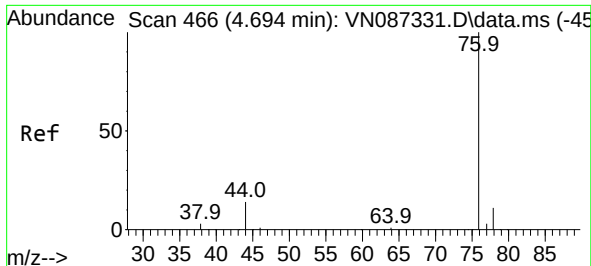
Tgt Ion: 41 Resp: 1016
 Ion Ratio Lower Upper
 41 100
 39 0.0 59.0 88.6#
 76 0.0 28.7 43.1#



#16
 Acetone
 Concen: 153.495 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: VN087538.D
 Acq: 13 Aug 2025 16:21

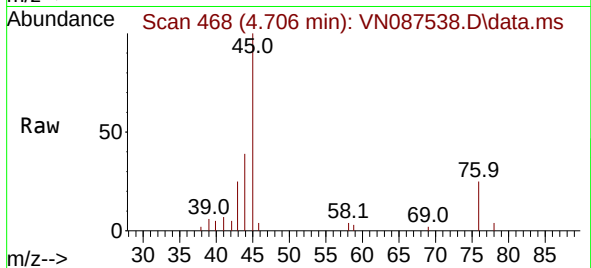
Tgt Ion: 43 Resp: 292723
 Ion Ratio Lower Upper
 43 100
 58 29.4 22.3 33.5



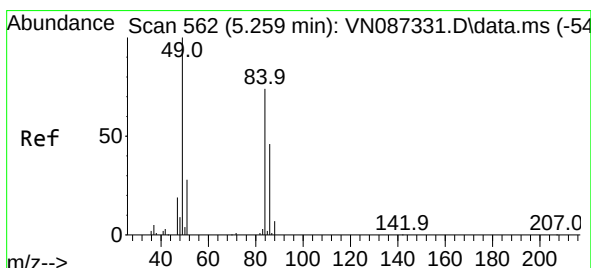
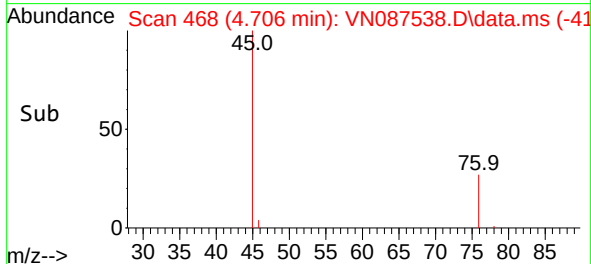
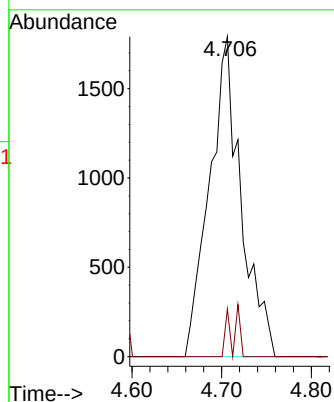


#17
Carbon Disulfide
Concen: 0.540 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

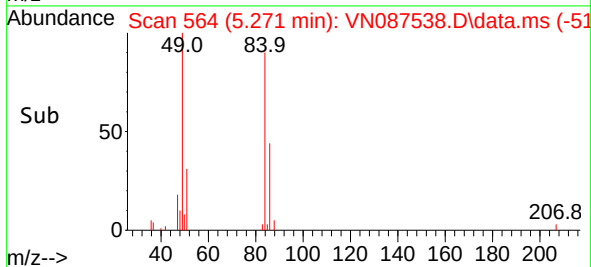
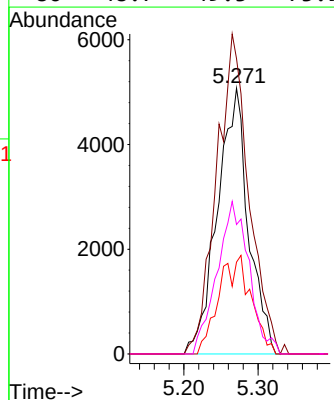
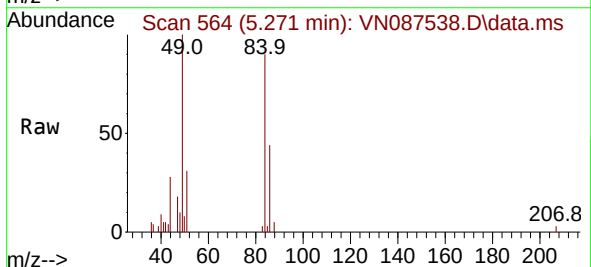


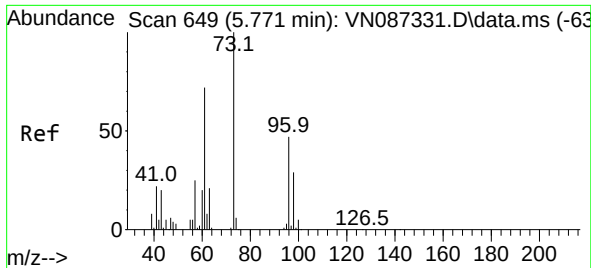
Tgt Ion: 76 Resp: 4378
Ion Ratio Lower Upper
76 100
78 14.9 8.6 13.0#



#20
Methylene Chloride
Concen: 3.988 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.012 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

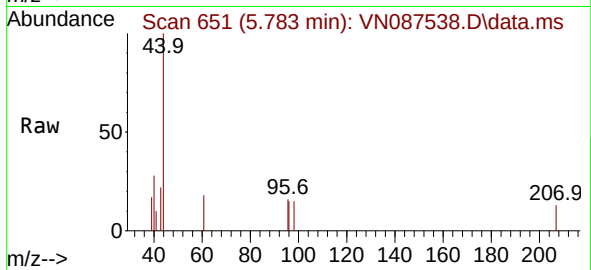
Tgt Ion: 84 Resp: 14756
Ion Ratio Lower Upper
84 100
49 111.2 107.5 161.3
51 34.5 30.2 45.2
86 48.7 49.3 73.9#



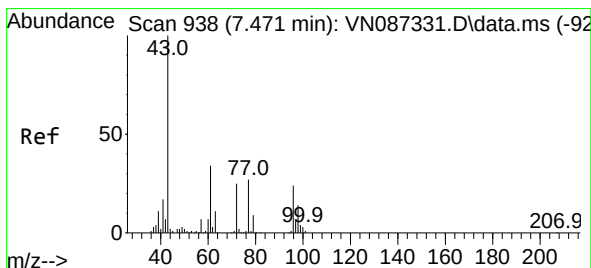
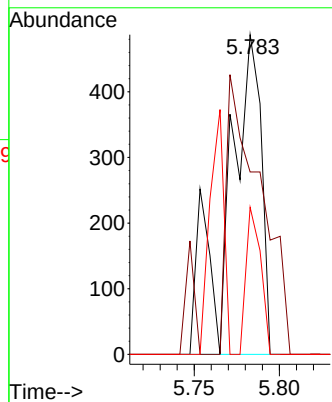
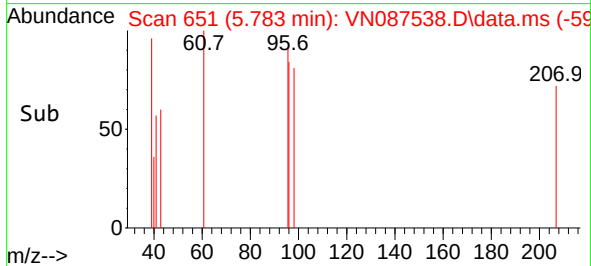


#21
trans-1,2-Dichloroethene
Concen: 0.218 ug/l
RT: 5.783 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

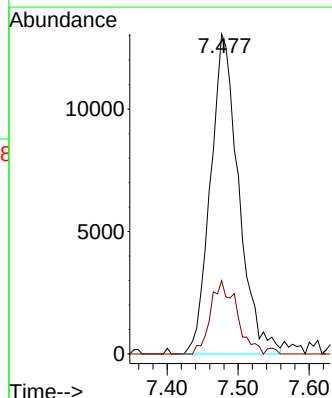
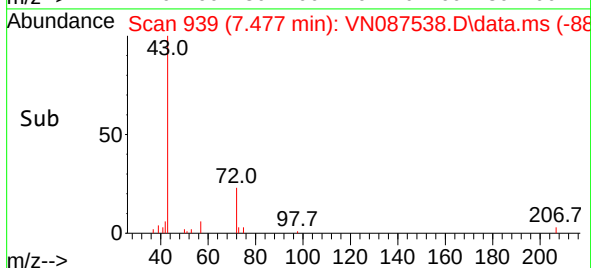
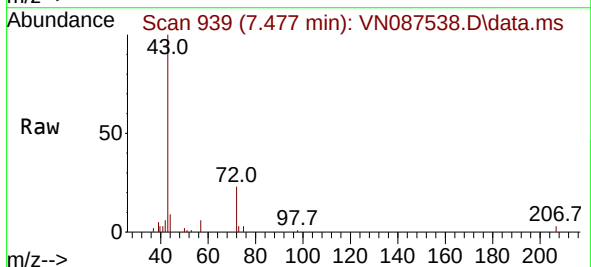


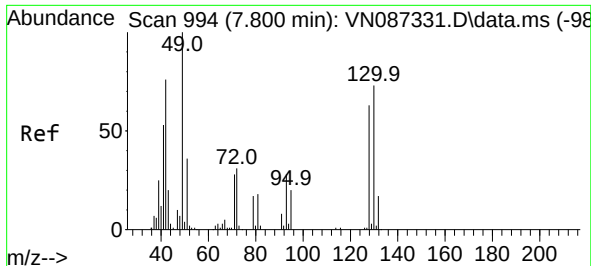
Tgt Ion: 96 Resp: 672
Ion Ratio Lower Upper
96 100
61 57.1 122.0 183.0#
98 46.0 50.0 75.0#



#25
2-Butanone
Concen: 12.232 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Tgt Ion: 43 Resp: 36044
Ion Ratio Lower Upper
43 100
72 22.9 19.6 29.4

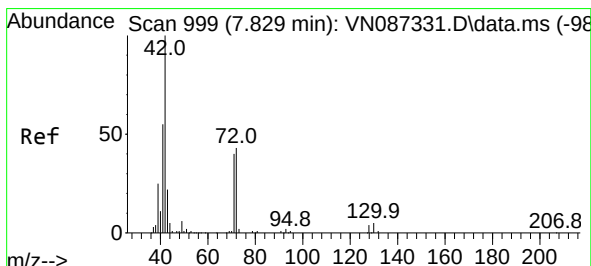
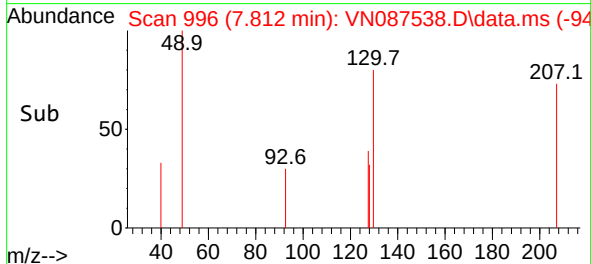
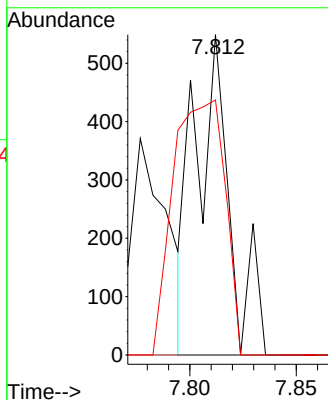
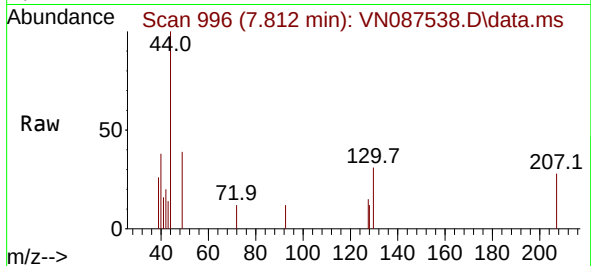




#28
Bromochloromethane
Concen: 0.216 ug/l
RT: 7.812 min Scan# 994
Delta R.T. 0.012 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

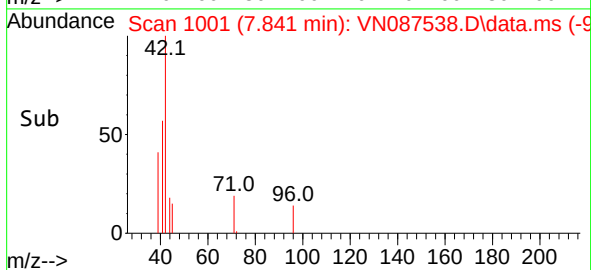
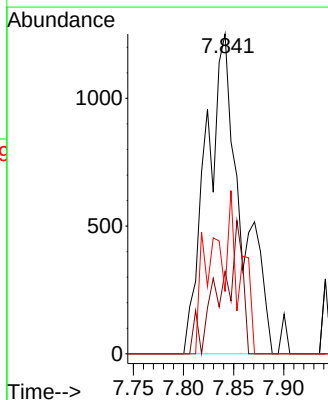
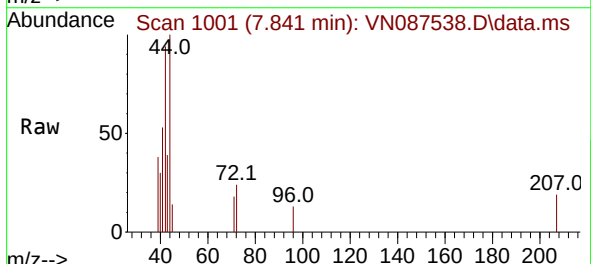
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MSVOA_N
ClientSampleId :

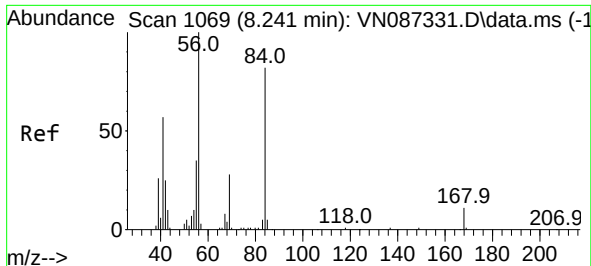
Tgt Ion: 49 Resp: 619
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 119.2 57.3 85.9#



#29
Tetrahydrofuran
Concen: 1.584 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

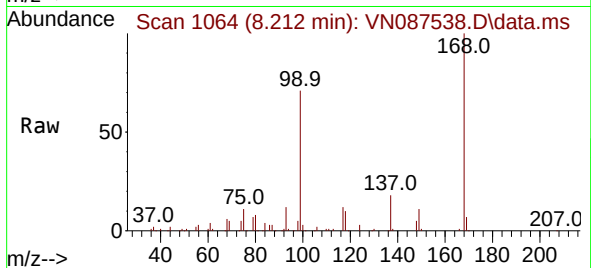
Tgt Ion: 42 Resp: 3033
Ion Ratio Lower Upper
42 100
72 16.3 33.4 50.0#
71 0.0 31.2 46.8#



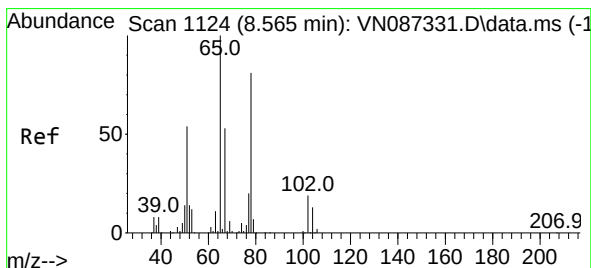
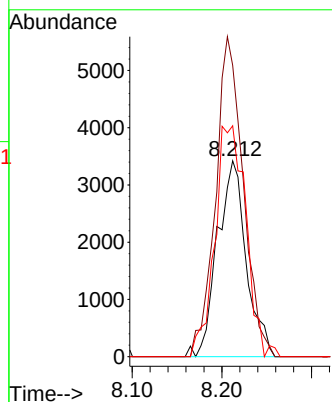
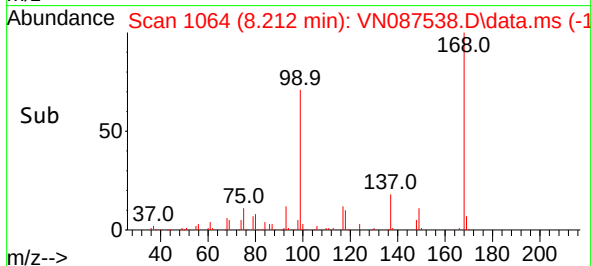


#31
Cyclohexane
Concen: 1.526 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

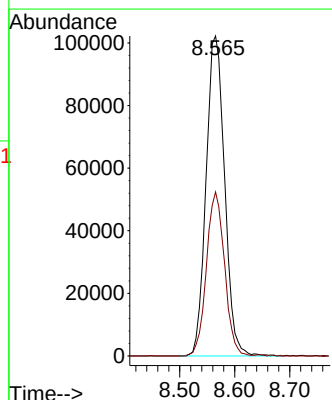
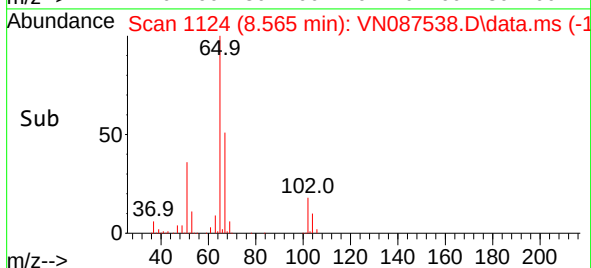
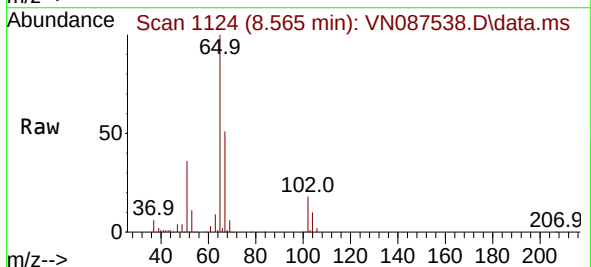


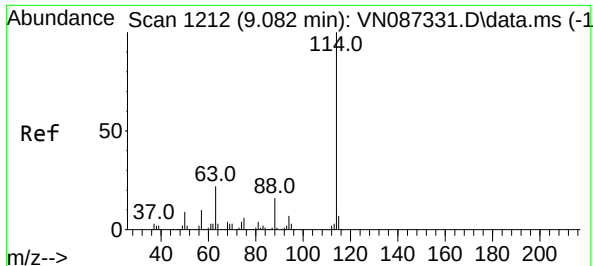
Tgt Ion: 56 Resp: 7628
Ion Ratio Lower Upper
56 100
69 148.8 22.7 34.1#
84 117.9 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 58.889 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Tgt Ion: 65 Resp: 239523
Ion Ratio Lower Upper
65 100
67 50.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

Instrument :

MSVOA_N

ClientSampleId :

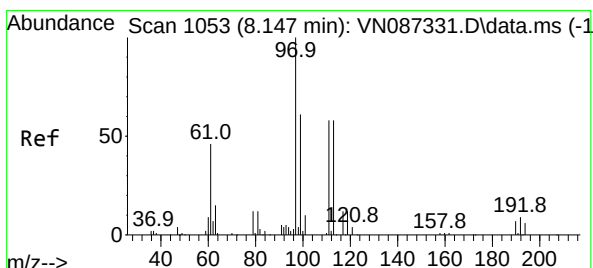
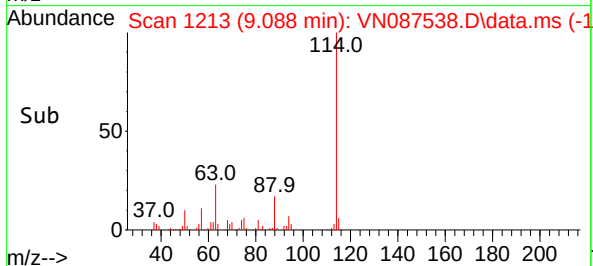
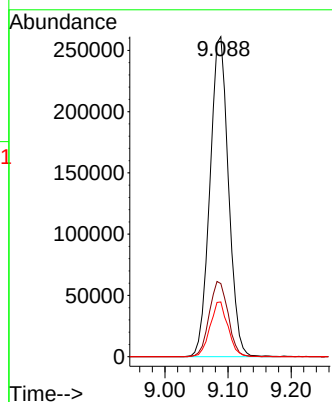
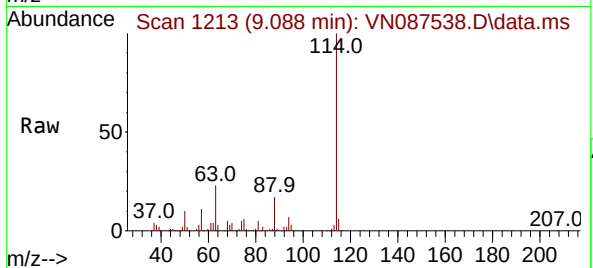
Tgt Ion:114 Resp: 533270

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 43.806 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

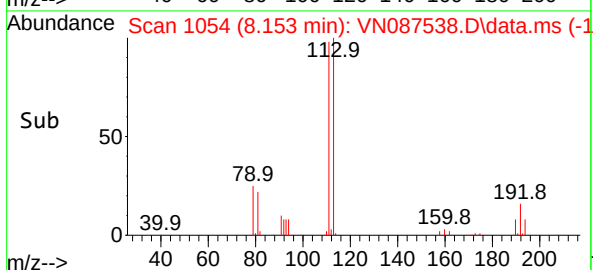
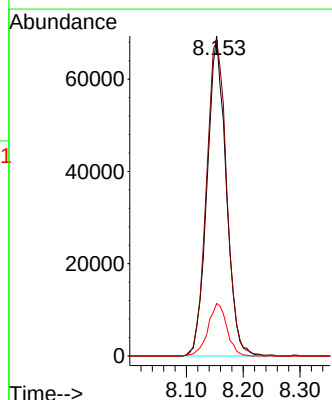
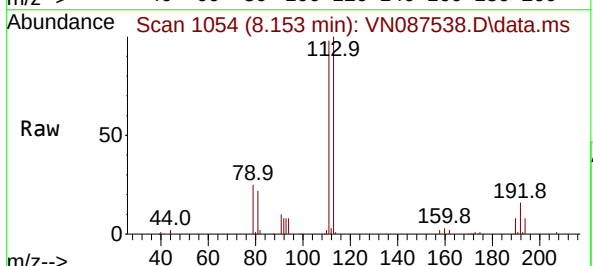
Tgt Ion:113 Resp: 161141

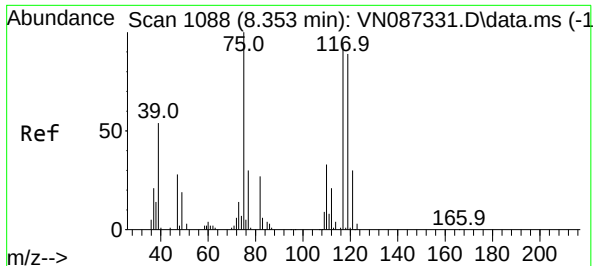
Ion Ratio Lower Upper

113 100

111 104.1 82.5 123.7

192 16.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.139 ug/l

RT: 8.212 min Scan# 1

Delta R.T. -0.141 min

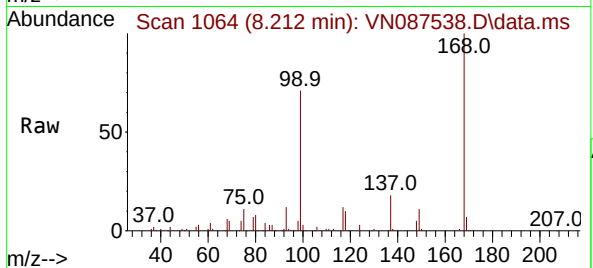
Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

Instrument :

MSVOA_N

ClientSampleId :



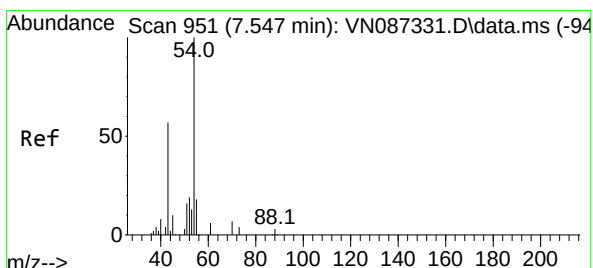
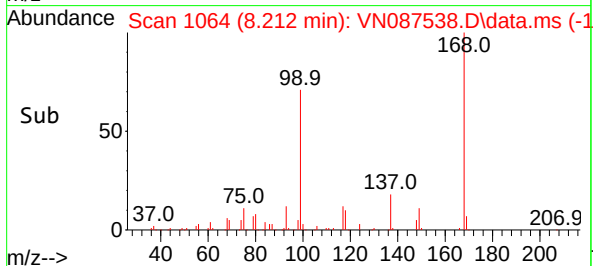
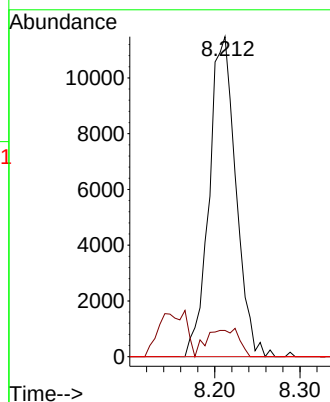
Tgt Ion: 75 Resp: 24973

Ion Ratio Lower Upper

75 100

110 10.4 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 5.135 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.070 min

Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

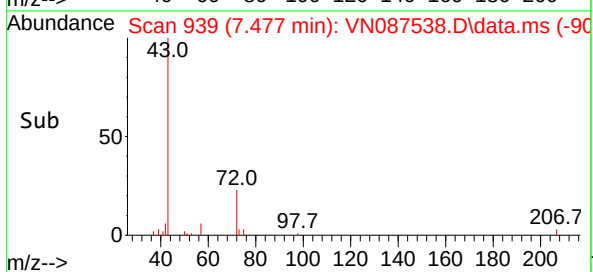
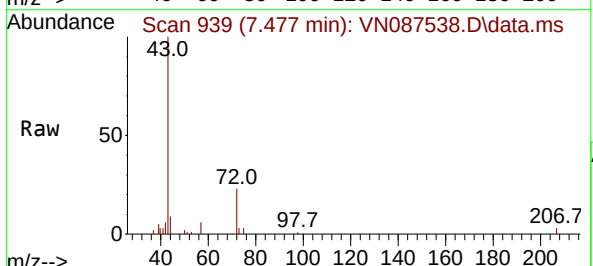
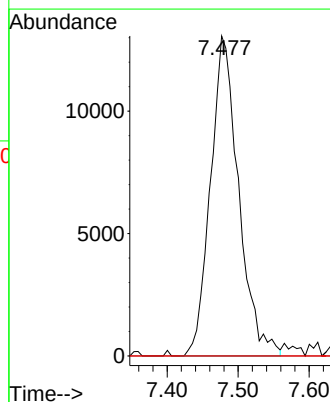
Tgt Ion: 43 Resp: 36044

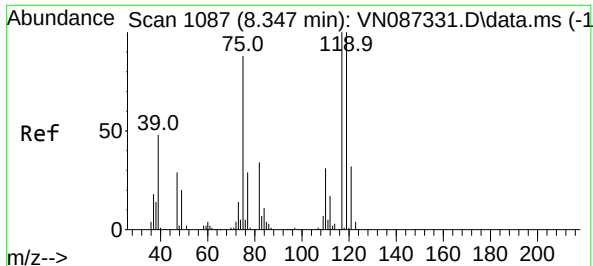
Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

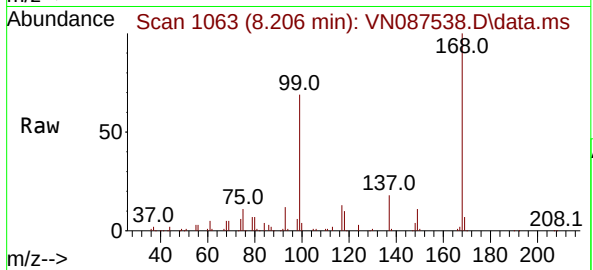
70 0.0 7.4 11.0#



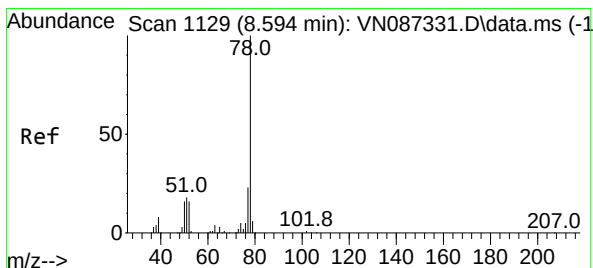
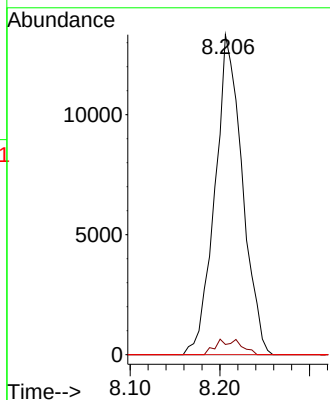
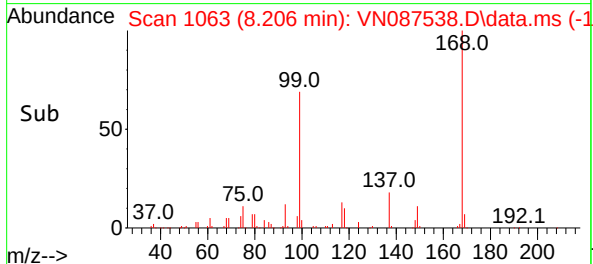


#38
Carbon Tetrachloride
Concen: 5.273 ug/l
RT: 8.206 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

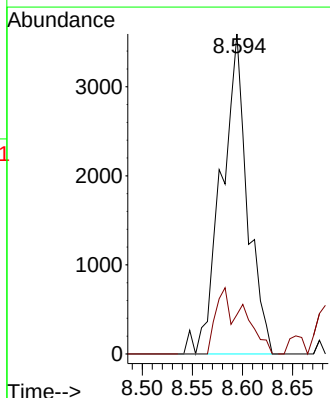
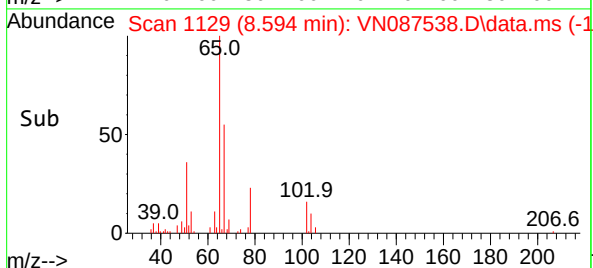
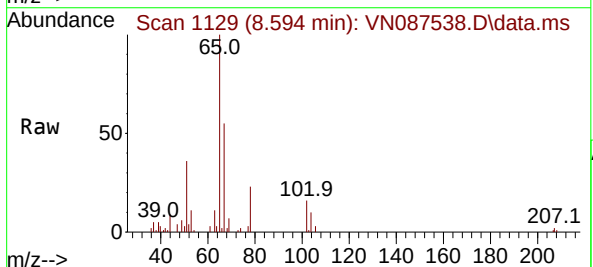


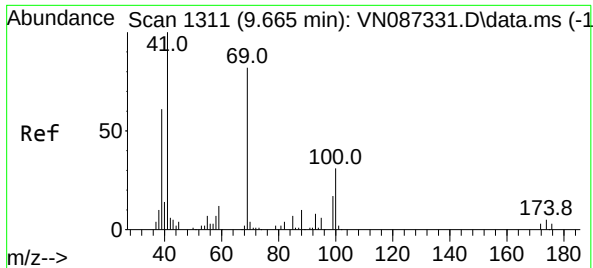
Tgt Ion:117 Resp: 28232
Ion Ratio Lower Upper
117 100
119 3.2 80.2 120.2#
121 0.0 25.4 38.2#



#40
Benzene
Concen: 0.414 ug/l
RT: 8.594 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

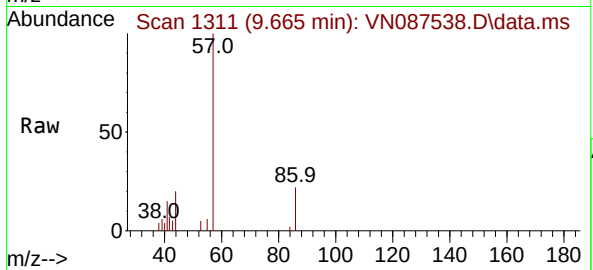
Tgt Ion: 78 Resp: 6507
Ion Ratio Lower Upper
78 100
77 12.3 18.2 27.2#



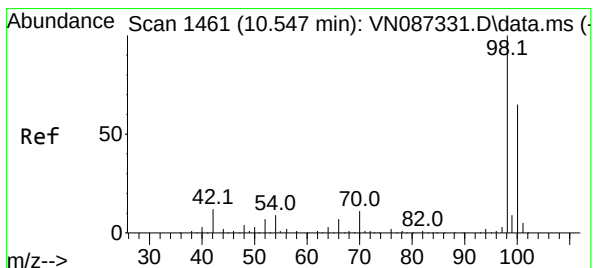
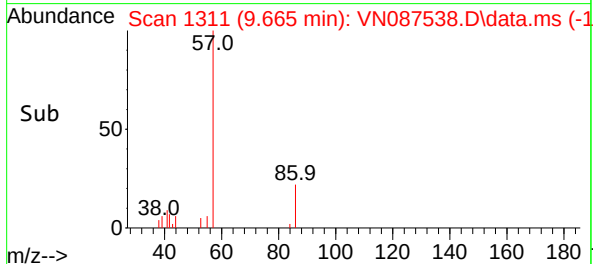
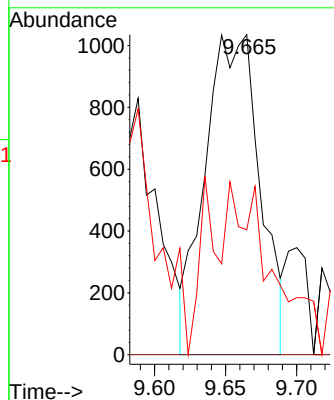


#48
Methyl methacrylate
Concen: 0.569 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

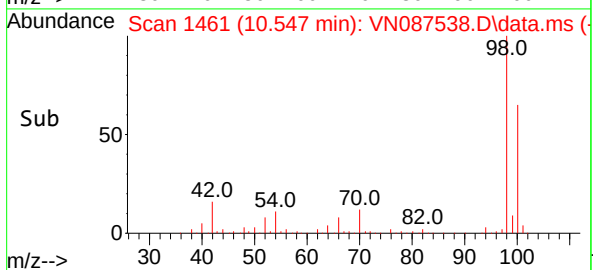
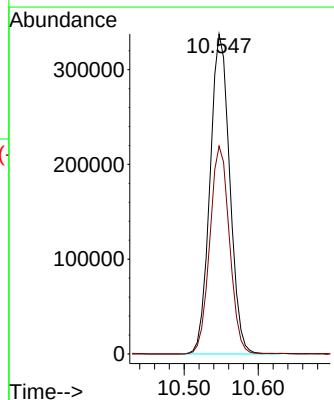
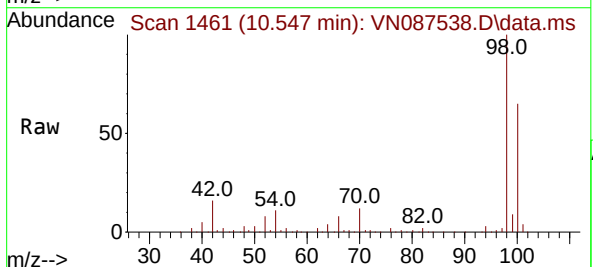


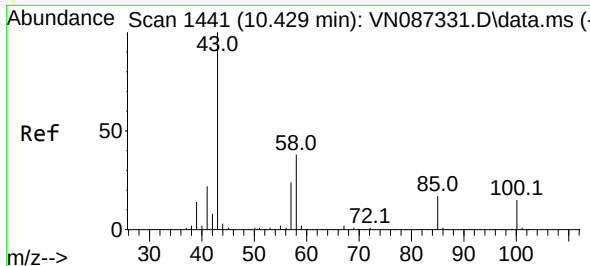
Tgt Ion: 41 Resp: 2790
Ion Ratio Lower Upper
41 100
69 0.0 64.1 96.1#
39 42.7 45.5 68.3#



#50
Toluene-d8
Concen: 47.587 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Tgt Ion: 98 Resp: 624414
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1

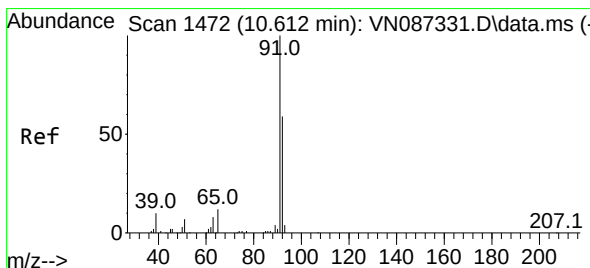
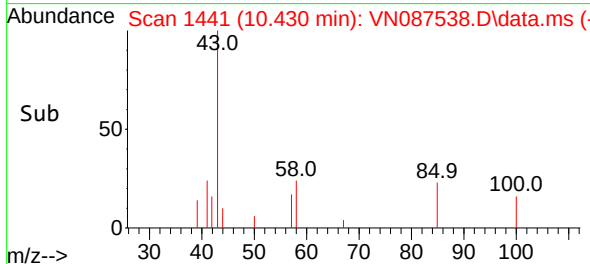
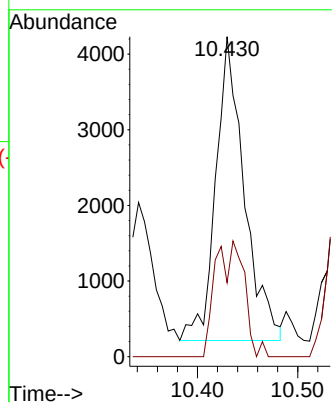
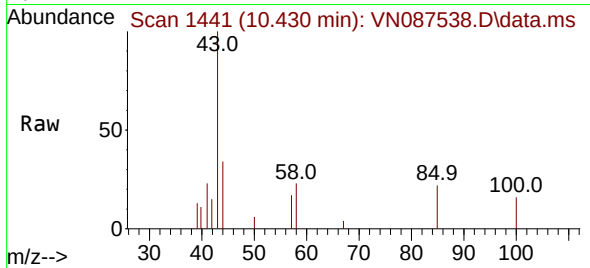




#51
4-Methyl-2-Pentanone
Concen: 1.154 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.001 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

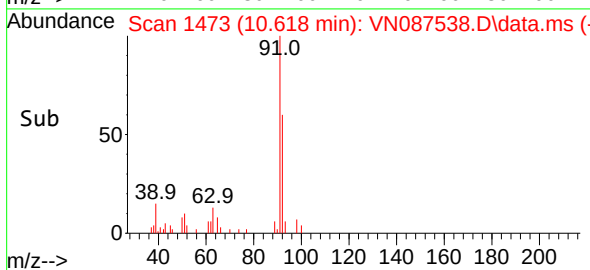
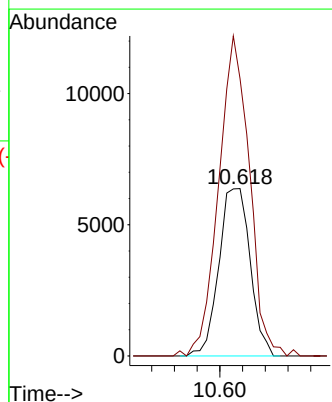
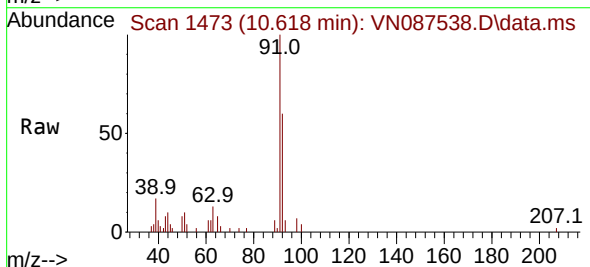
Instrument :
MSVOA_N
ClientSampleId :

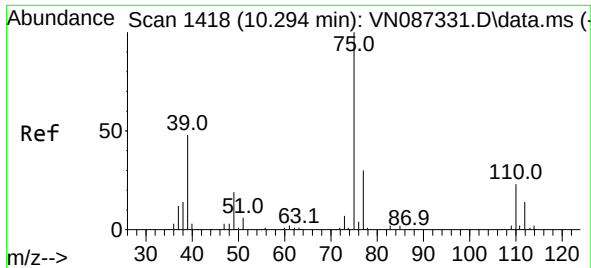
Tgt Ion: 43 Resp: 7951
Ion Ratio Lower Upper
43 100
58 18.8 30.8 46.2#



#52
Toluene
Concen: 1.276 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. 0.006 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

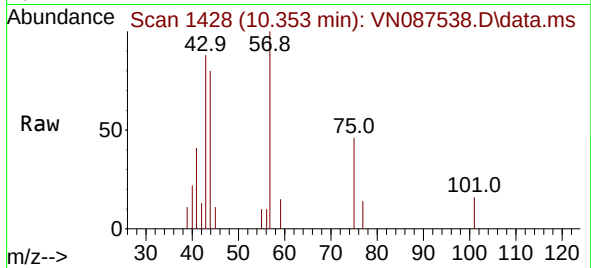
Tgt Ion: 92 Resp: 12182
Ion Ratio Lower Upper
92 100
91 188.5 135.1 202.7



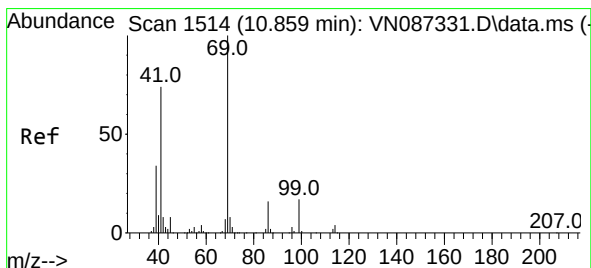
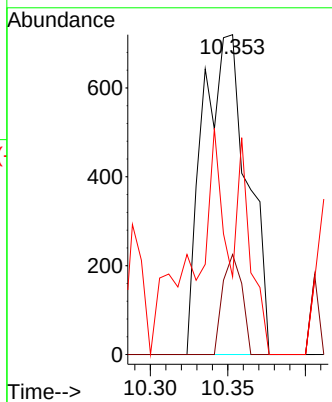
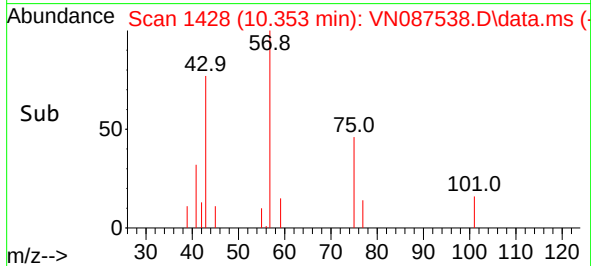


#54
 cis-1,3-Dichloropropene
 Concen: 0.229 ug/l
 RT: 10.353 min Scan# 1418
 Delta R.T. 0.059 min
 Lab File: VN087538.D
 Acq: 13 Aug 2025 16:21

Instrument :
 MSVOA_N
 ClientSampleId :

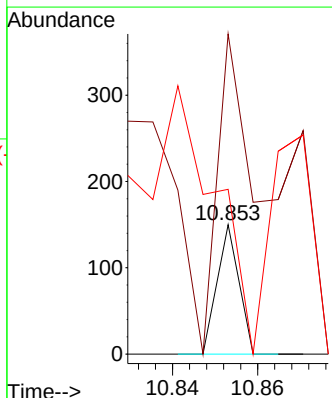
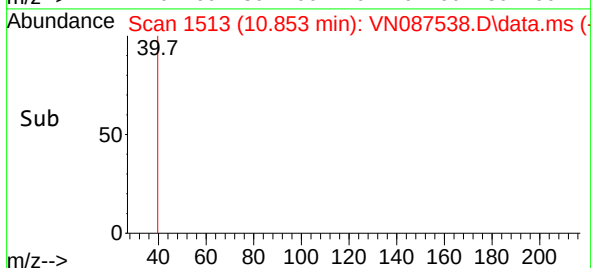
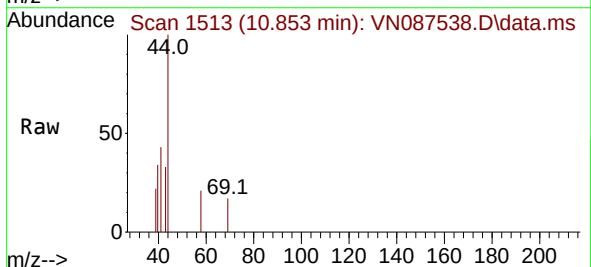


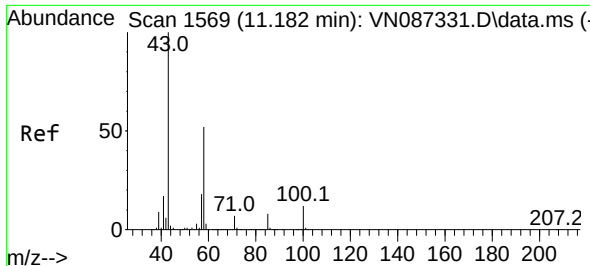
Tgt Ion:	75	Resp:	1442
Ion Ratio	100	Lower	Upper
75	100		
77	31.3	24.2	36.2
39	24.3	38.4	57.6#



#56
 Ethyl methacrylate
 Concen: 0.643 ug/l
 RT: 10.853 min Scan# 1513
 Delta R.T. -0.006 min
 Lab File: VN087538.D
 Acq: 13 Aug 2025 16:21

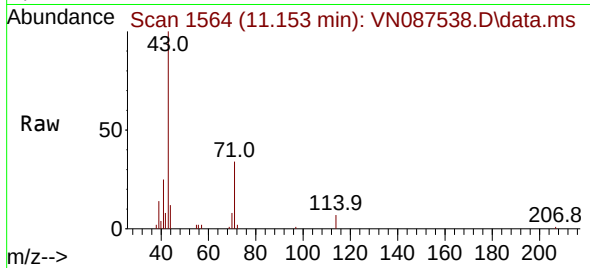
Tgt Ion:	69	Resp:	53
Ion Ratio	100	Lower	Upper
69	100		
41	0.0	55.1	82.7#
39	969.8	27.9	41.9#



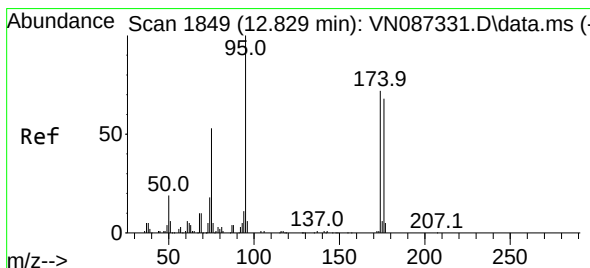
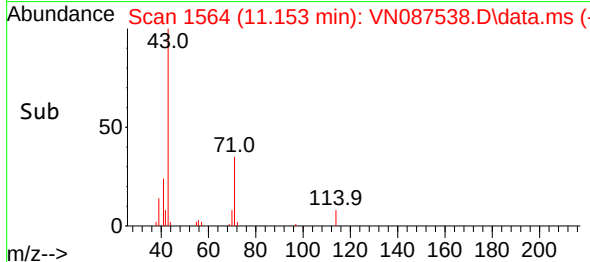
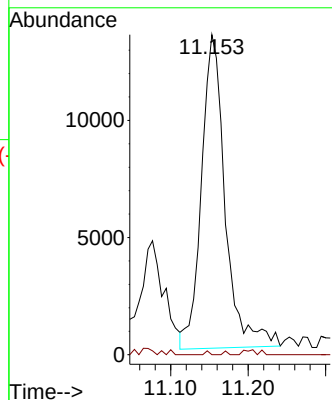


#59
2-Hexanone
Concen: 6.224 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.029 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

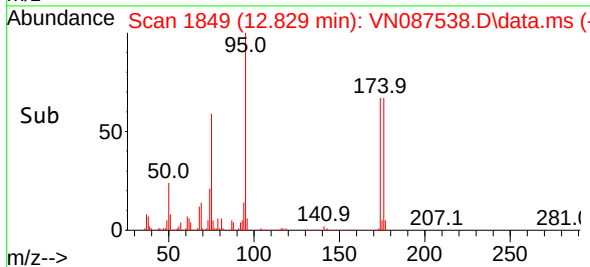
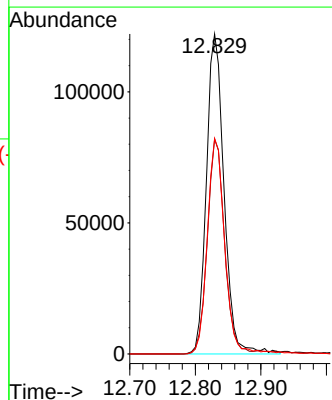
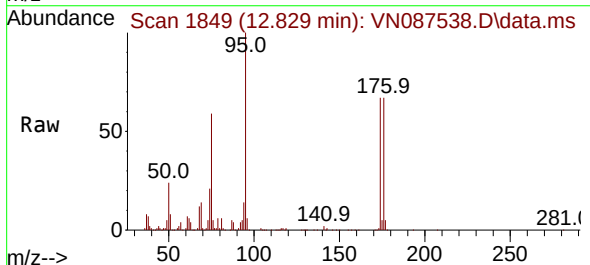


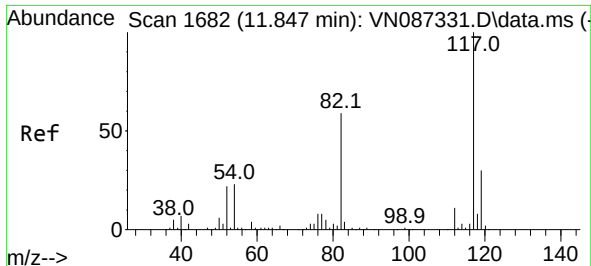
Tgt Ion: 43 Resp: 28459
Ion Ratio Lower Upper
43 100
58 0.2 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 47.073 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

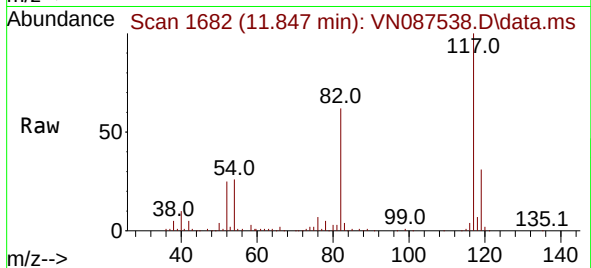
Tgt Ion: 95 Resp: 228200
Ion Ratio Lower Upper
95 100
174 65.2 0.0 149.4
176 66.9 0.0 141.2



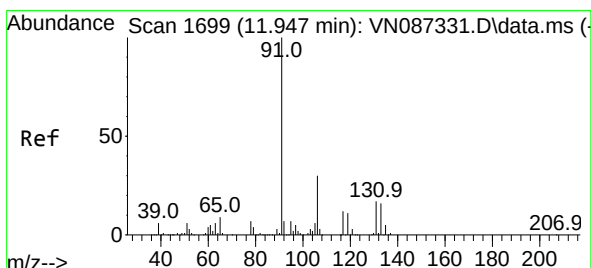
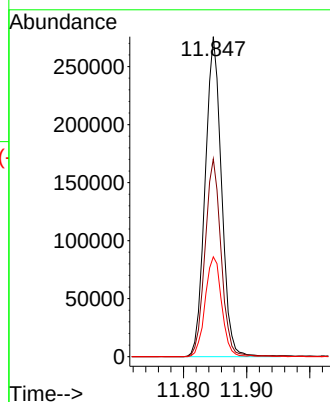
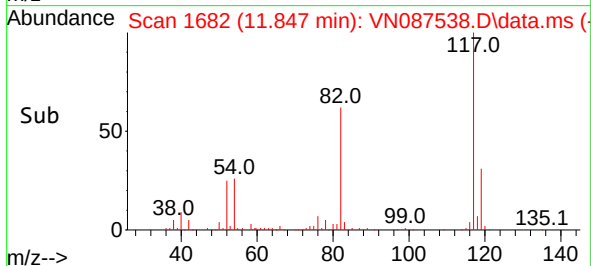


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Instrument :
MSVOA_N
ClientSampleId :

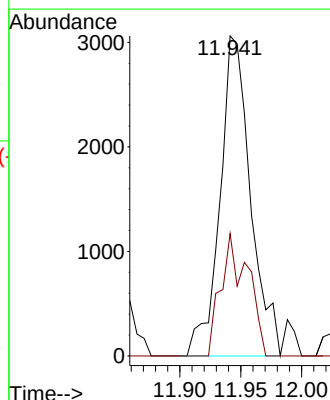
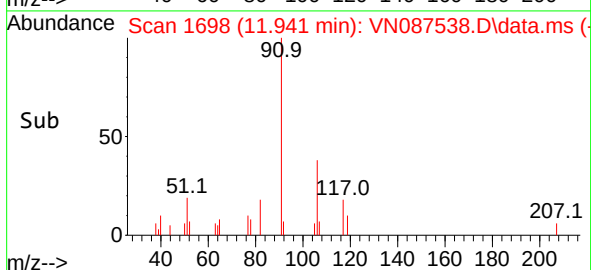
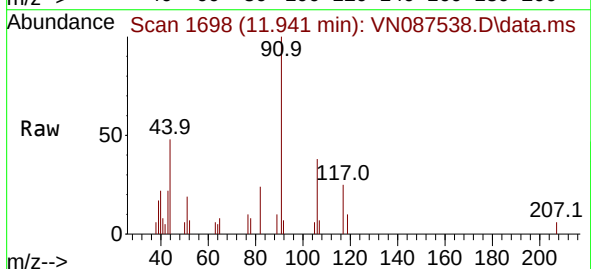


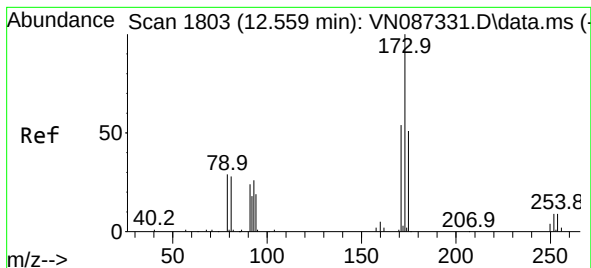
Tgt Ion:117 Resp: 494800
Ion Ratio Lower Upper
117 100
82 61.8 47.4 71.2
119 31.2 23.8 35.8



#67
Ethyl Benzene
Concen: 0.294 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

Tgt Ion: 91 Resp: 5368
Ion Ratio Lower Upper
91 100
106 38.3 24.3 36.5#





#71

Bromoform

Concen: 0.393 ug/l

RT: 12.823 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087538.D

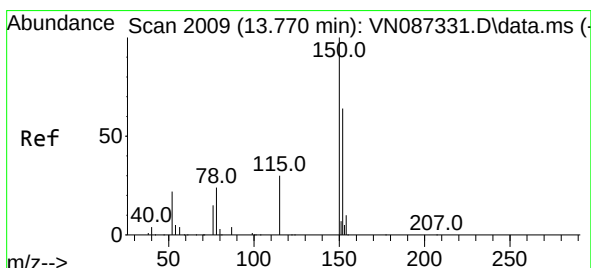
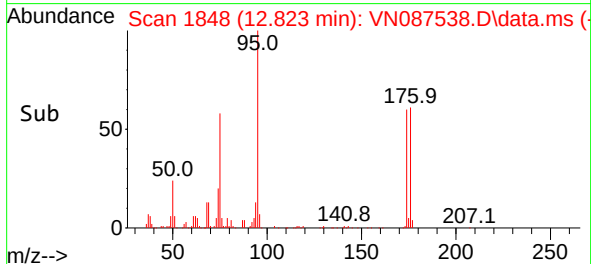
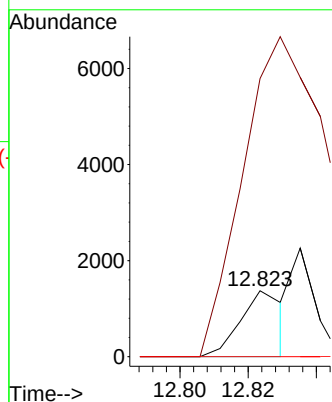
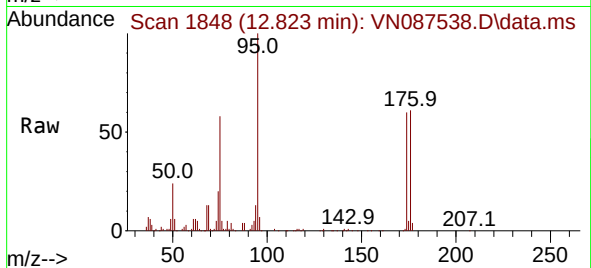
Acq: 13 Aug 2025 16:21

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 1200
 Ion Ratio Lower Upper
 173 100
 175 685.2 24.1 72.3#
 254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

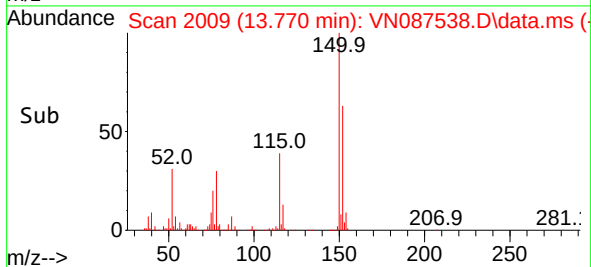
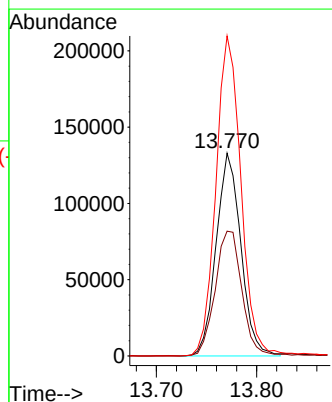
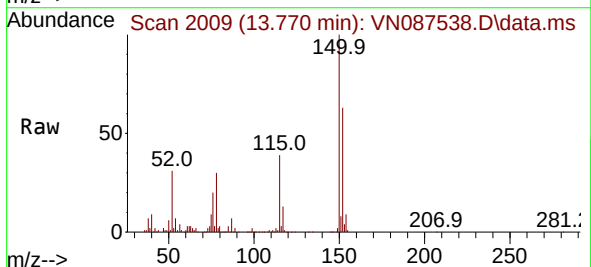
RT: 13.770 min Scan# 2009

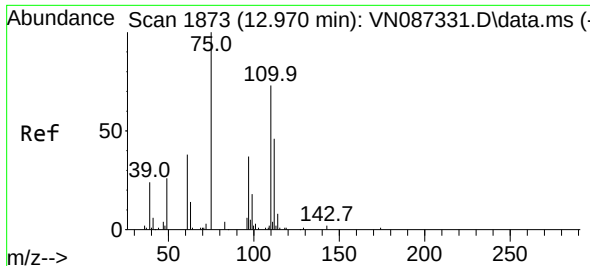
Delta R.T. 0.000 min

Lab File: VN087538.D

Acq: 13 Aug 2025 16:21

Tgt Ion:152 Resp: 227638
 Ion Ratio Lower Upper
 152 100
 115 67.1 31.1 93.5
 150 161.0 0.0 349.0

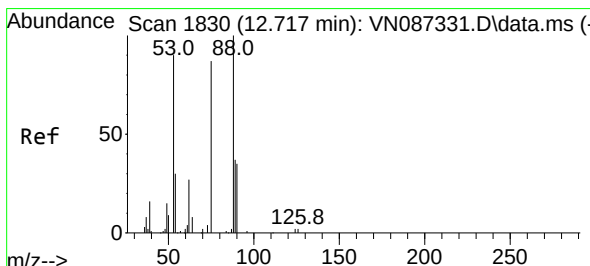
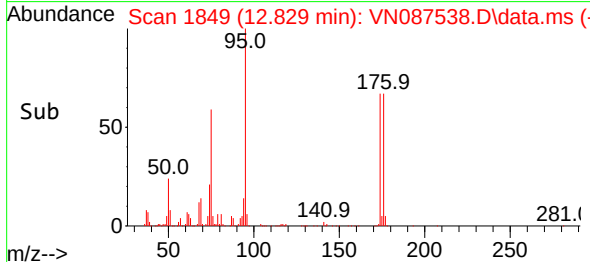
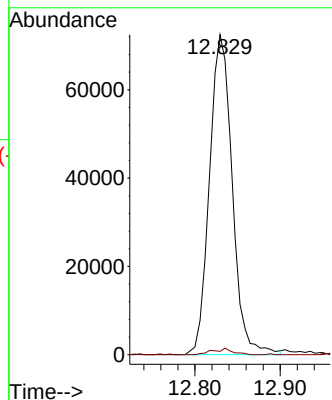
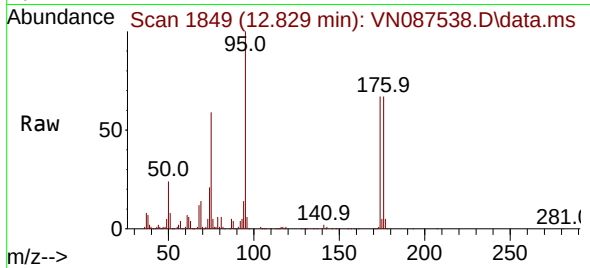




#76
1,2,3-Trichloropropane
Concen: 26.329 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

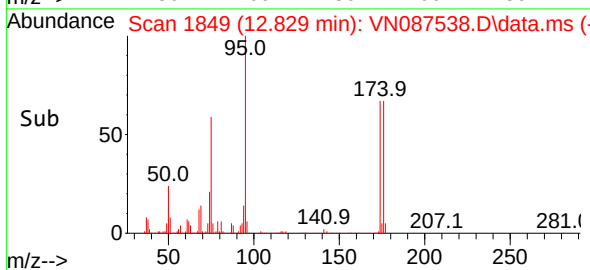
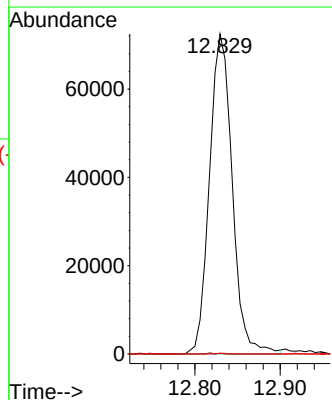
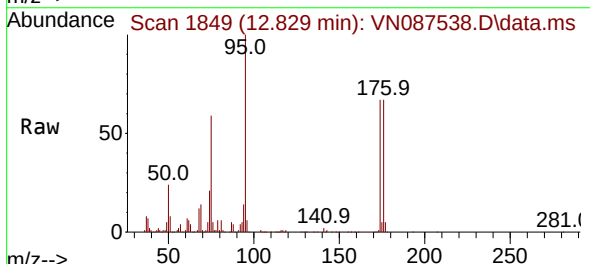
Instrument :
MSVOA_N
ClientSampleId :

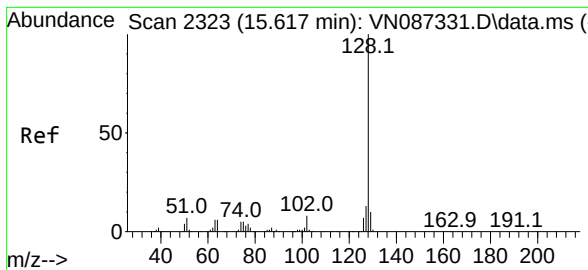
Tgt Ion: 75 Resp: 134399
Ion Ratio Lower Upper
75 100
77 1.8 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.040 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087538.D
Acq: 13 Aug 2025 16:21

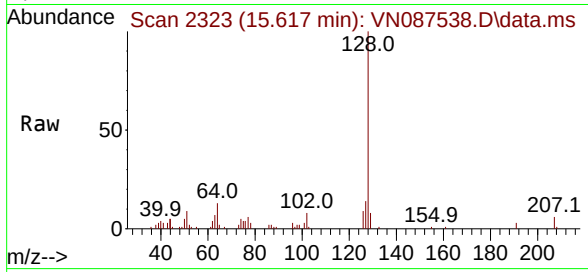
Tgt Ion: 75 Resp: 134399
Ion Ratio Lower Upper
75 100
53 0.1 83.5 125.3#
89 0.1 38.4 57.6#





#95
 Naphthalene
 Concen: 2.927 ug/l
 RT: 15.617 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087538.D
 Acq: 13 Aug 2025 16:21

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	42077
Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.5	15.7
129	10.1	8.4	12.6

