

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087699.D
 Acq On : 29 Aug 2025 14:54
 Operator : JC\MD
 Sample : Q2982-01
 Misc : 2.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MOO-25-0237

Quant Time: Aug 29 22:56:03 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)

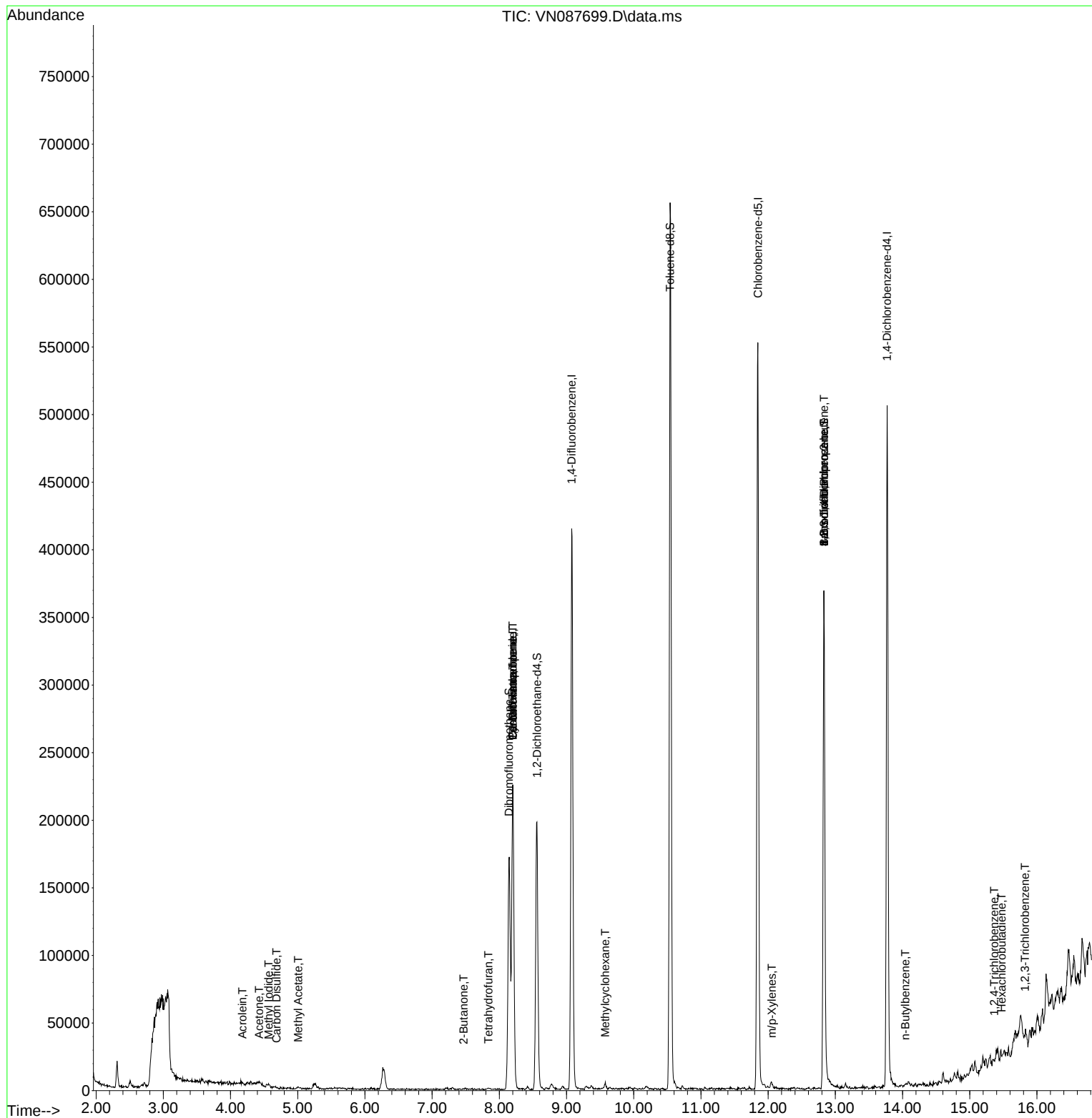
Internal Standards						
1) Pentafluorobenzene	8.200	168	145890	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	345543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	307393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	126874	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	166152	55.586	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.180%			
35) Dibromofluoromethane	8.141	113	125437	50.279	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.560%			
50) Toluene-d8	10.541	98	443881	47.537	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.080%			
62) 4-Bromofluorobenzene	12.829	95	130838	39.400	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 78.800%			
Target Compounds						Qvalue
10) Methyl Iodide	4.565	142	4027	9.084	ug/l	98
13) Acrolein	4.177	56	312	0.489	ug/l #	50
16) Acetone	4.424	43	1639	1.007	ug/l #	74
17) Carbon Disulfide	4.683	76	2832	0.489	ug/l #	74
18) Methyl Acetate	5.006	43	1731	0.508	ug/l #	64
20) Methylene Chloride	5.230	84	818	Below Cal	#	92
25) 2-Butanone	7.471	43	579	0.270	ug/l #	50
29) Tetrahydrofuran	7.836	42	281	0.204	ug/l #	62
31) Cyclohexane	8.200	56	5744	1.528	ug/l #	29
36) 1,1-Dichloropropene	8.200	75	15008	3.921	ug/l #	53
38) Carbon Tetrachloride	8.200	117	17596	4.656	ug/l #	15
39) Methylcyclohexane	9.577	83	1790	0.425	ug/l	95
68) m/p-Xylenes	12.053	106	1623	0.334	ug/l	81
71) Bromoform	12.829	173	1208	0.620	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	73961	24.859	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	73961	65.810	ug/l #	1
89) n-Butylbenzene	14.041	91	1765	0.200	ug/l #	41
93) 1,2,4-Trichlorobenzene	15.365	180	681	0.251	ug/l #	1
94) Hexachlorobutadiene	15.476	225	355	0.367	ug/l #	58
96) 1,2,3-Trichlorobenzene	15.823	180	2124	0.801	ug/l #	19

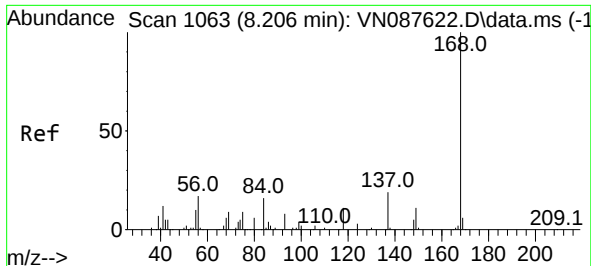
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

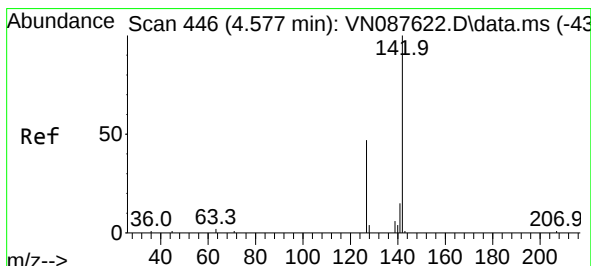
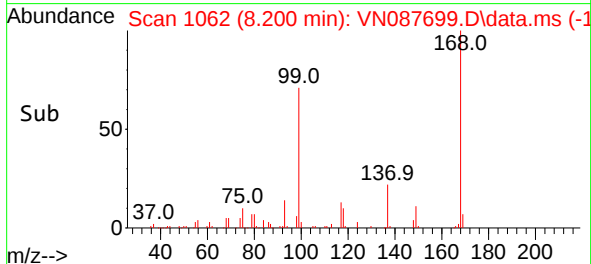
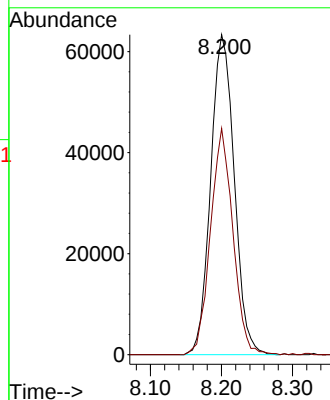
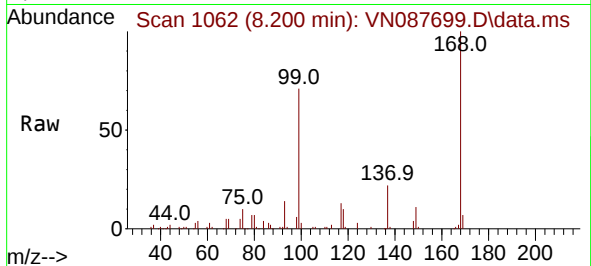




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

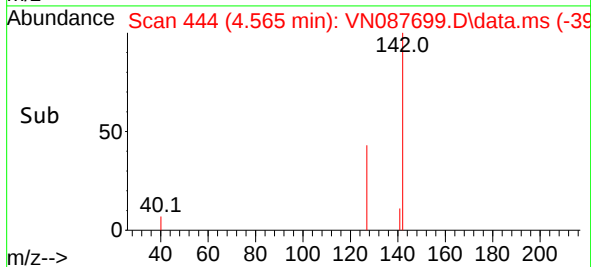
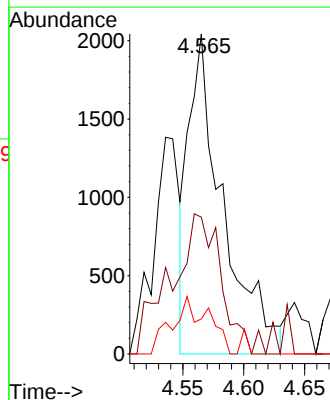
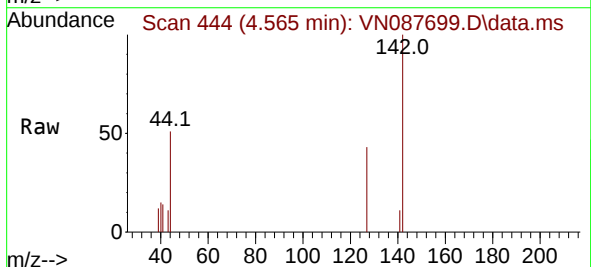
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

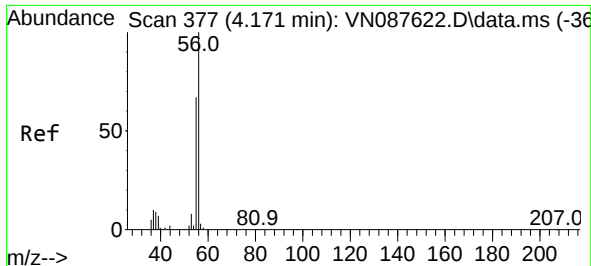
Tgt Ion:168 Resp: 145890
Ion Ratio Lower Upper
168 100
99 70.7 57.2 85.8



#10
Methyl Iodide
Concen: 9.084 ug/l
RT: 4.565 min Scan# 444
Delta R.T. -0.012 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion:142 Resp: 4027
Ion Ratio Lower Upper
142 100
127 46.8 38.0 57.0
141 12.0 12.0 18.0

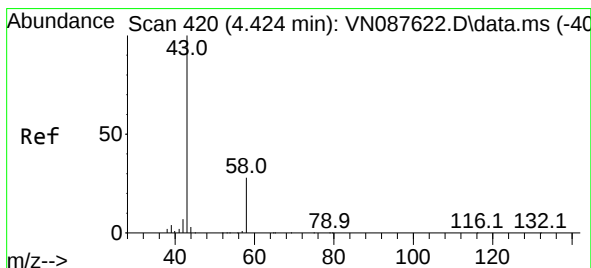
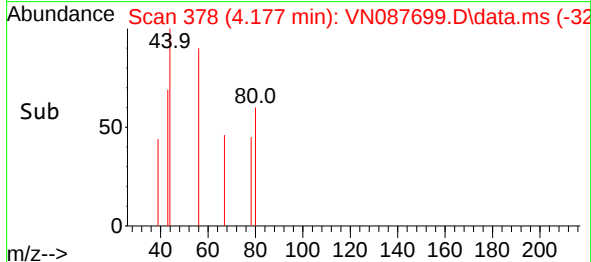
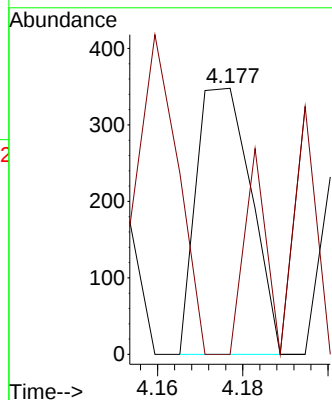
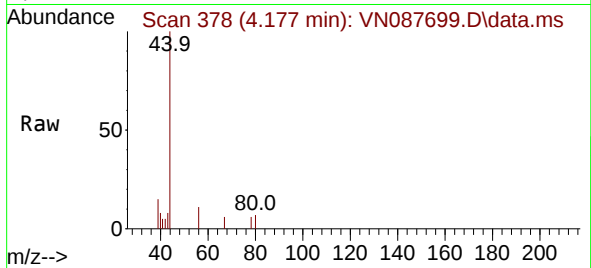




#13
Acrolein
Concen: 0.489 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

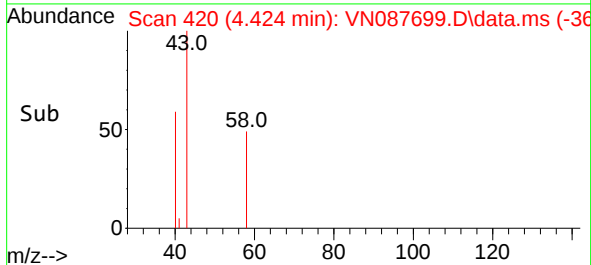
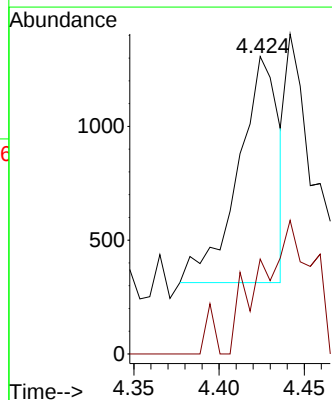
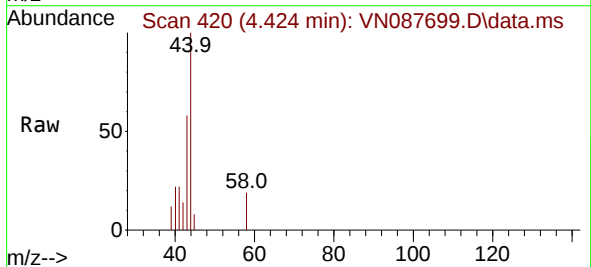
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

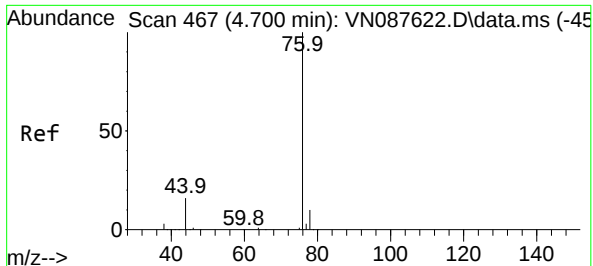
Tgt Ion: 56 Resp: 312
Ion Ratio Lower Upper
56 100
55 30.4 57.3 85.9#



#16
Acetone
Concen: 1.007 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
58 42.0 22.6 33.8#

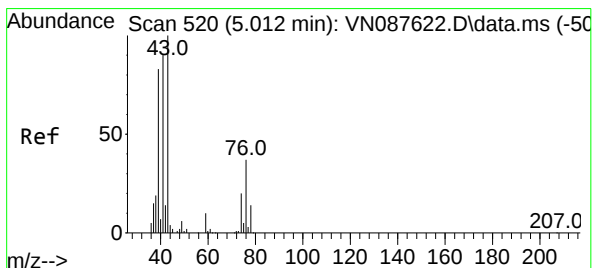
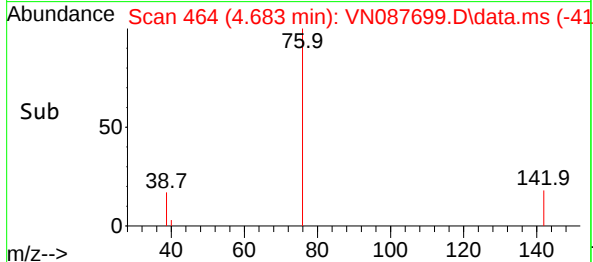
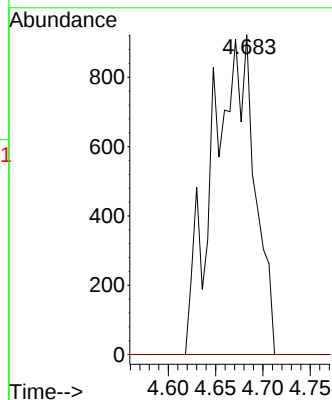
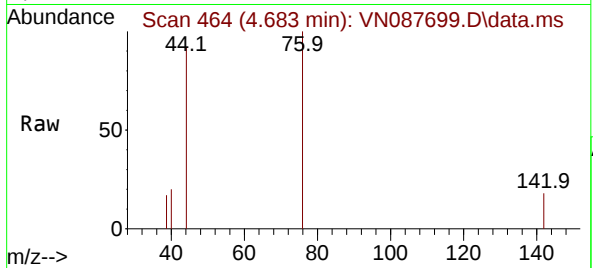




#17
Carbon Disulfide
Concen: 0.489 ug/l
RT: 4.683 min Scan# 41
Delta R.T. -0.018 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

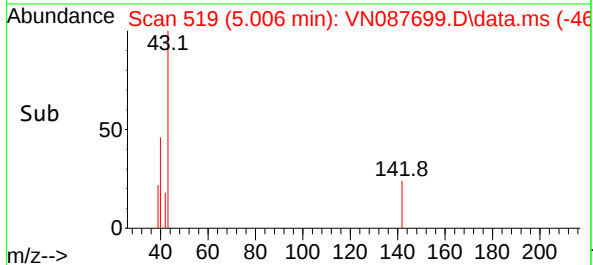
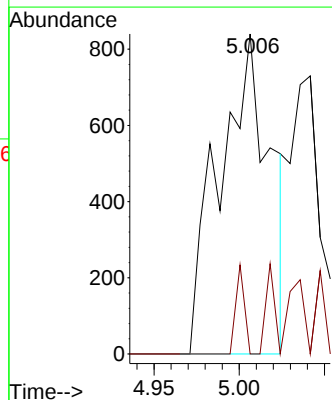
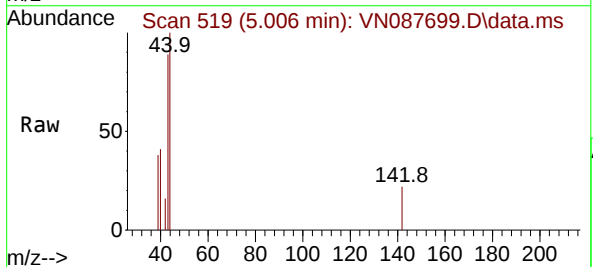
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

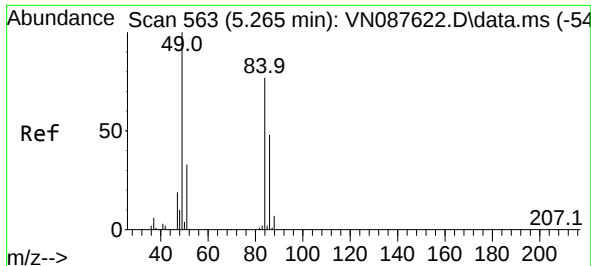
Tgt Ion: 76 Resp: 2832
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.508 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

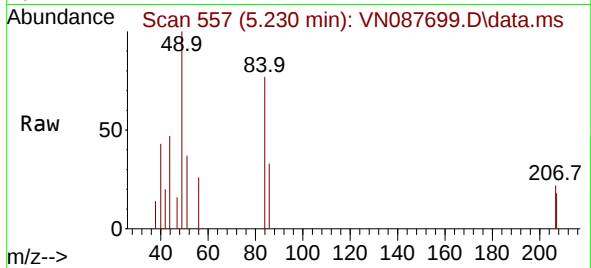
Tgt Ion: 43 Resp: 1731
Ion Ratio Lower Upper
43 100
74 4.8 17.6 26.4#



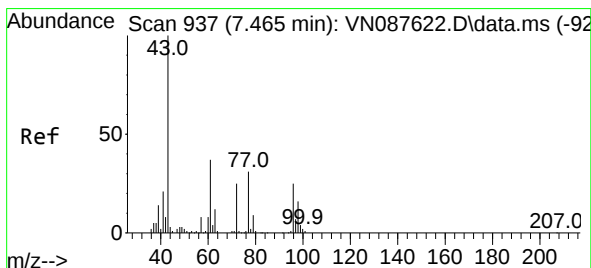
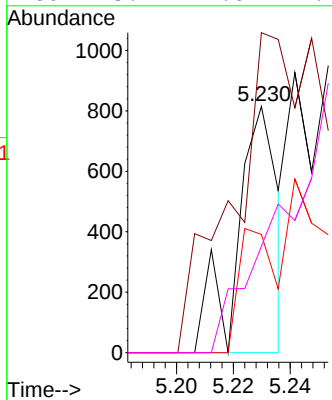
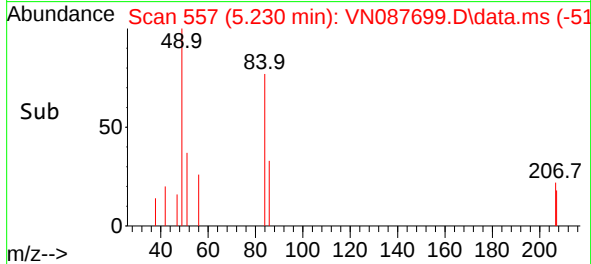


#20
Methylene Chloride
Concen: Below Cal
RT: 5.230 min Scan# 51
Delta R.T. -0.035 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

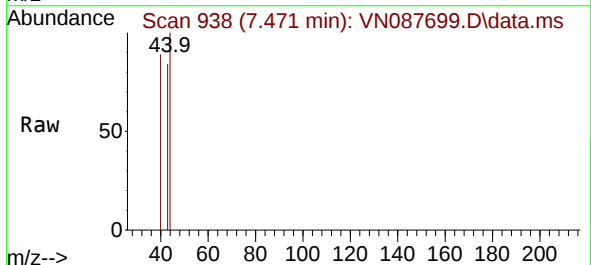
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237



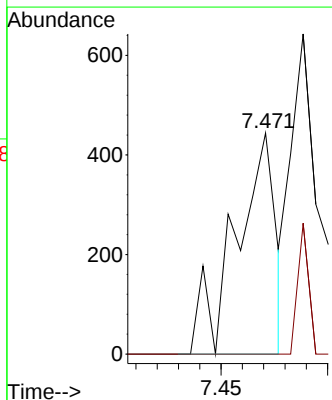
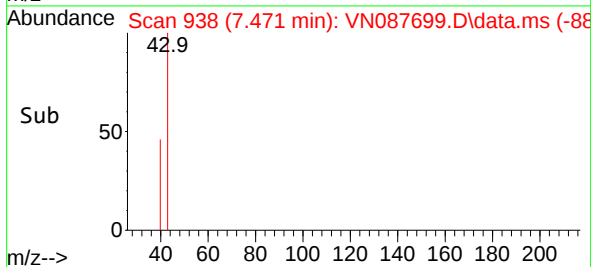
Tgt Ion: 84 Resp: 818
Ion Ratio Lower Upper
84 100
49 129.9 103.4 155.2
51 48.0 33.8 50.8
86 43.2 49.6 74.4#

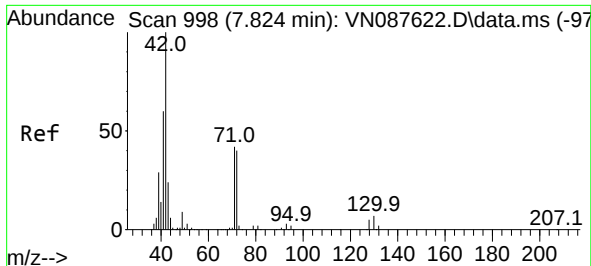


#25
2-Butanone
Concen: 0.270 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54



Tgt Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

Instrument :

MSVOA_N

ClientSampleId :

MOO-25-0237

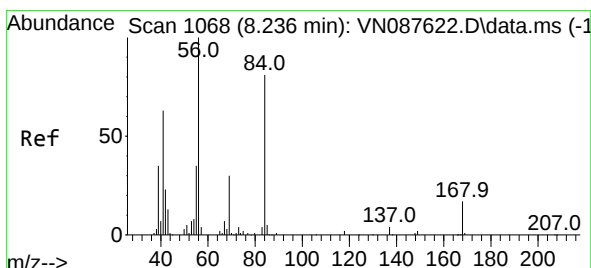
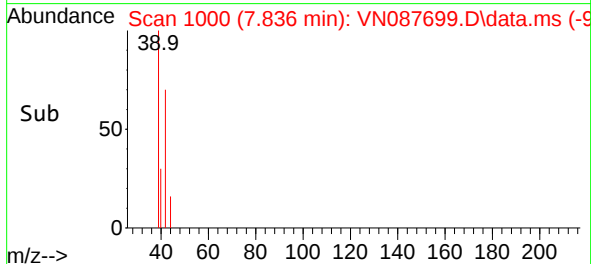
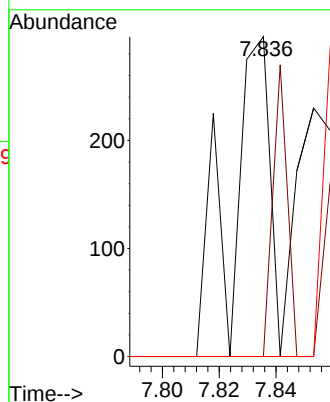
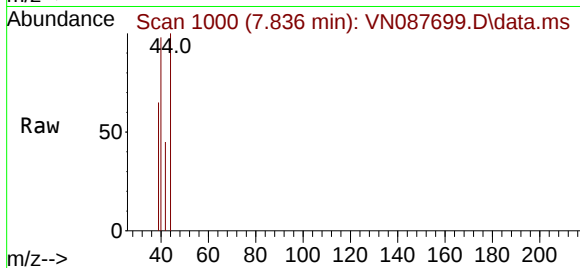
Tgt Ion: 42 Resp: 281

Ion Ratio Lower Upper

42 100

72 33.8 33.7 50.5

71 0.0 31.9 47.9#



#31

Cyclohexane

Concen: 1.528 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.035 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

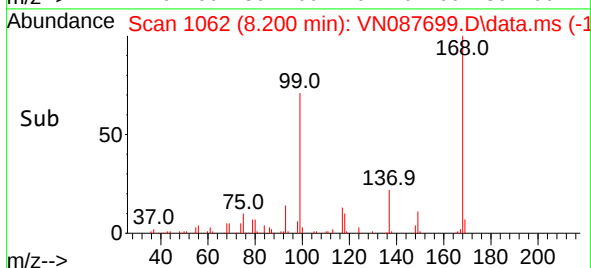
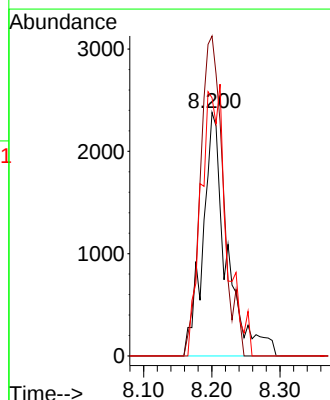
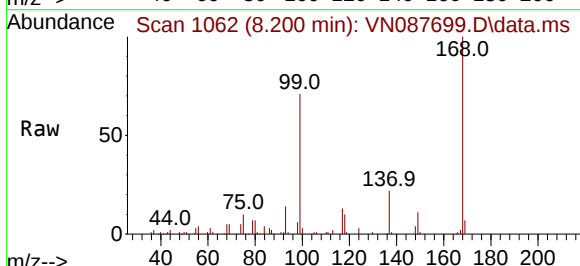
Tgt Ion: 56 Resp: 5744

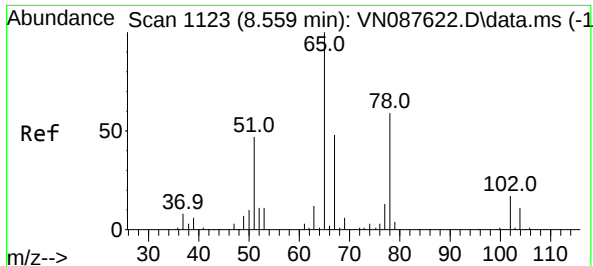
Ion Ratio Lower Upper

56 100

69 131.4 23.7 35.5#

84 106.0 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 55.586 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

Instrument :

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ClientSampleId :

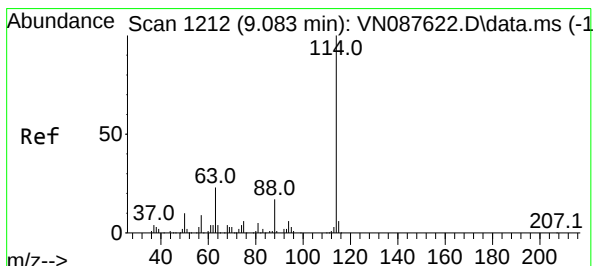
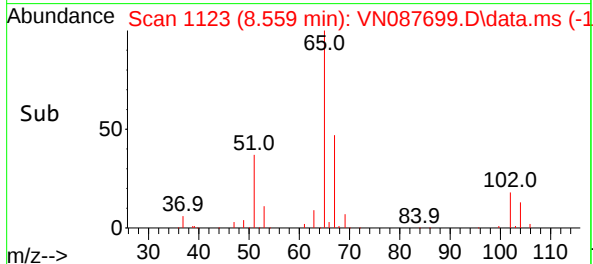
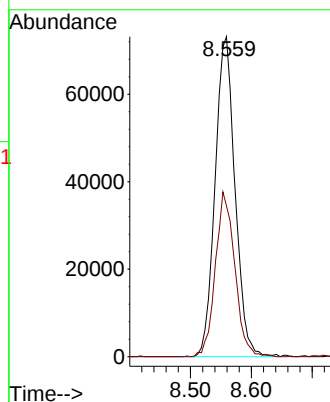
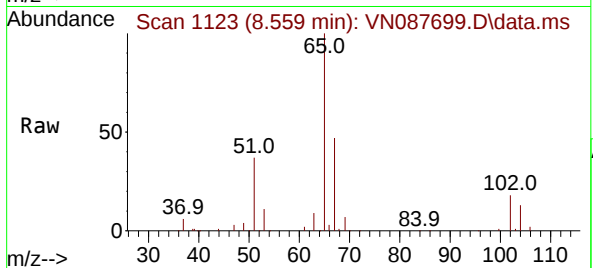
MOO-25-0237

Tgt Ion: 65 Resp: 166152

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

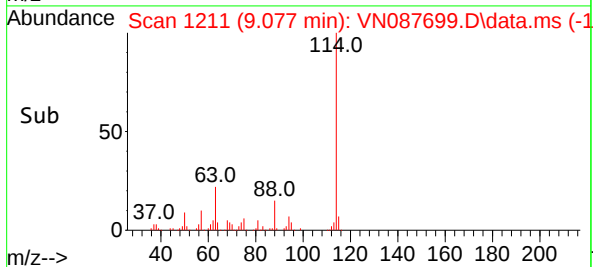
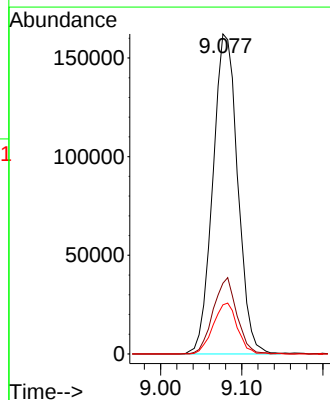
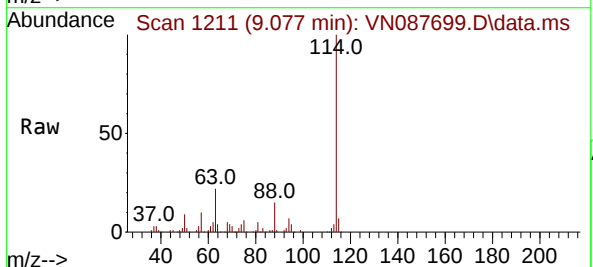
Tgt Ion: 114 Resp: 345543

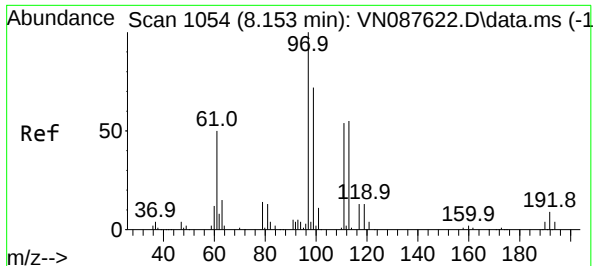
Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.2

88 15.3 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.279 ug/l

RT: 8.141 min Scan# 1052

Delta R.T. -0.012 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

Instrument :

MSVOA_N

ClientSampleId :

MOO-25-0237

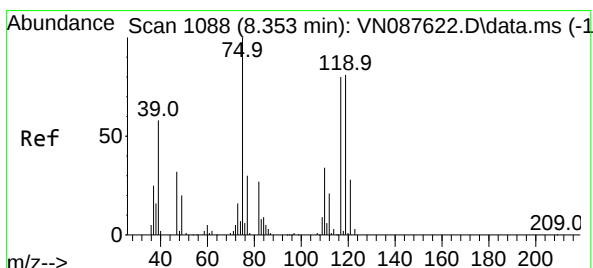
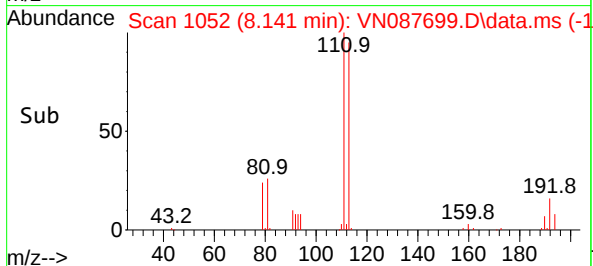
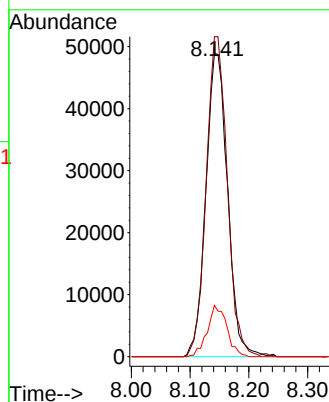
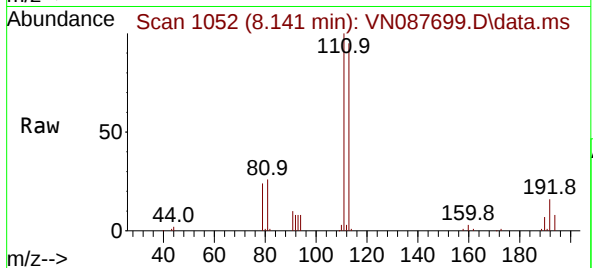
Tgt Ion:113 Resp: 125437

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

192 15.2 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.921 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

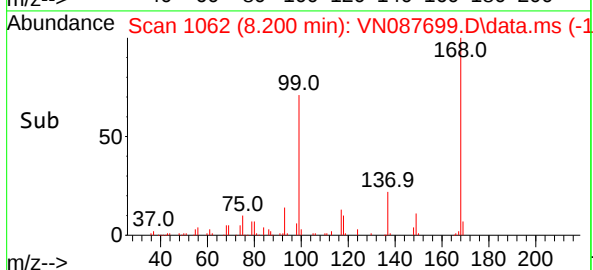
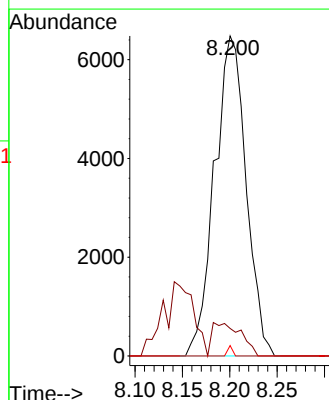
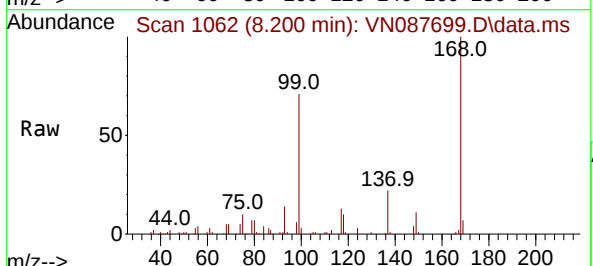
Tgt Ion: 75 Resp: 15008

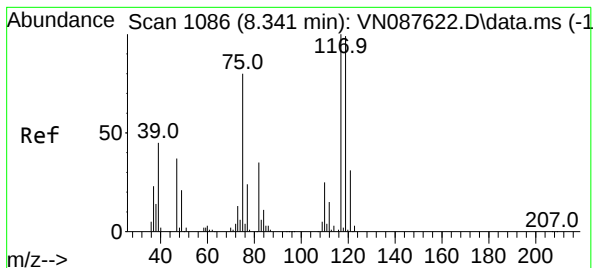
Ion Ratio Lower Upper

75 100

110 9.4 15.9 47.6#

77 0.5 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.656 ug/l

RT: 8.200 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN087699.D

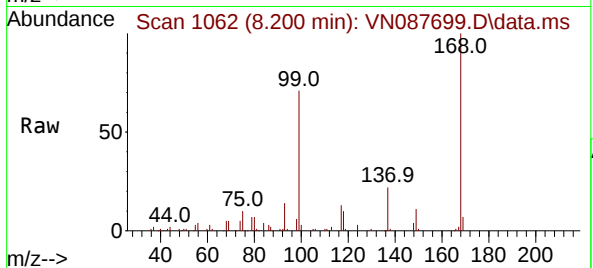
Acq: 29 Aug 2025 14:54

Instrument :

MSVOA_N

ClientSampleId :

MOO-25-0237



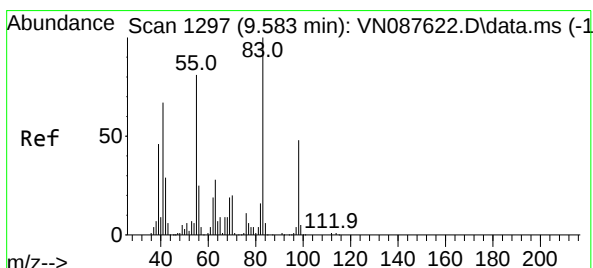
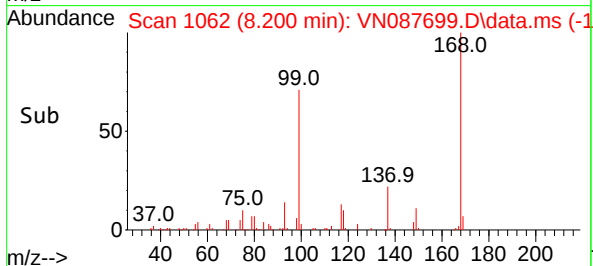
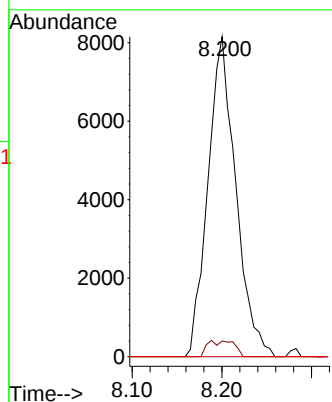
Tgt Ion:117 Resp: 17596

Ion Ratio Lower Upper

117 100

119 4.9 79.0 118.6#

121 0.0 25.0 37.6#



#39

Methylcyclohexane

Concen: 0.425 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

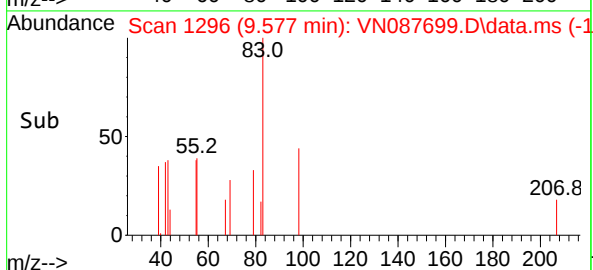
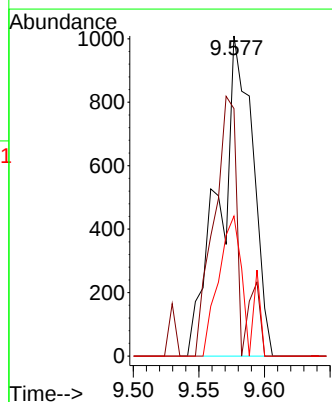
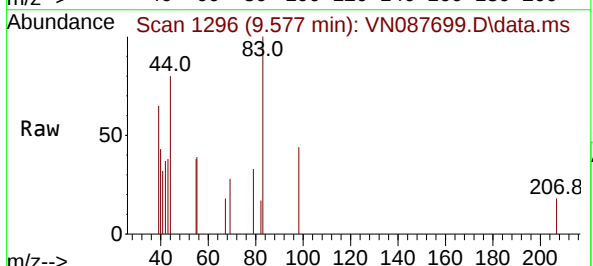
Tgt Ion: 83 Resp: 1790

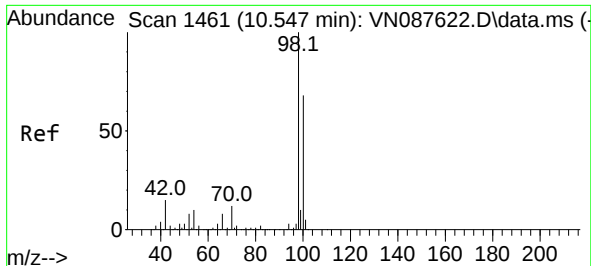
Ion Ratio Lower Upper

83 100

55 77.3 64.6 96.8

98 43.7 38.4 57.6

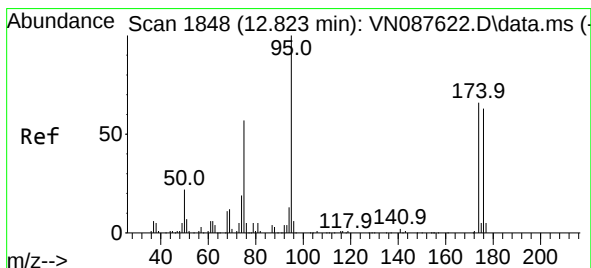
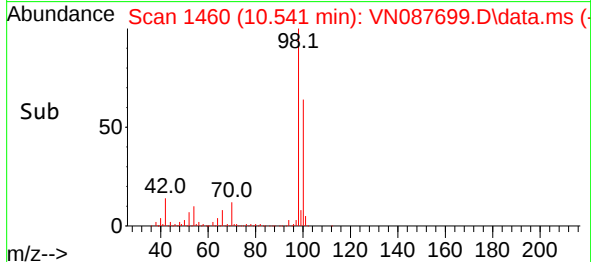
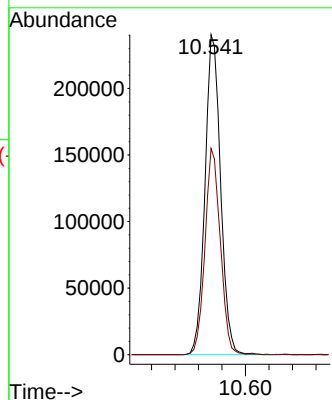
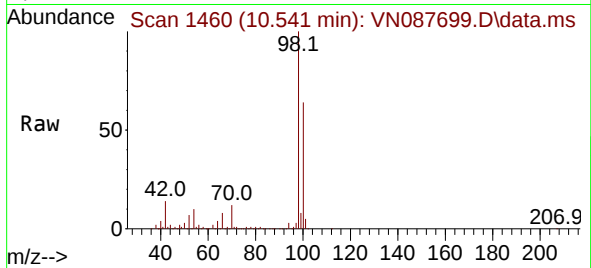




#50
Toluene-d8
Concen: 47.537 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

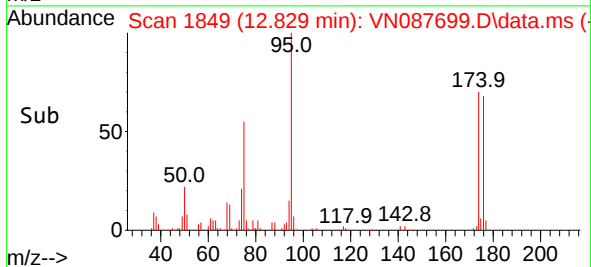
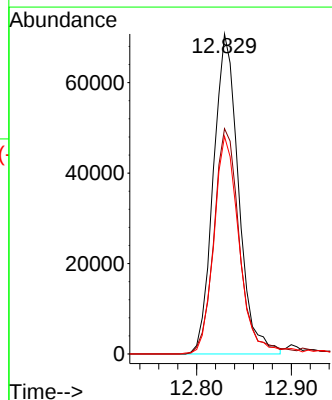
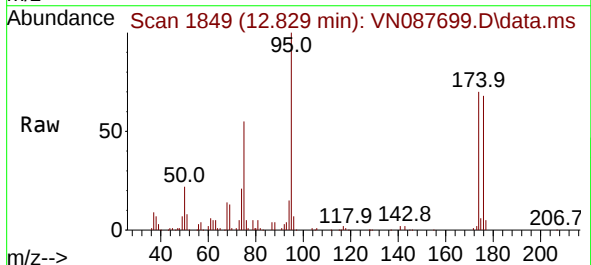
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

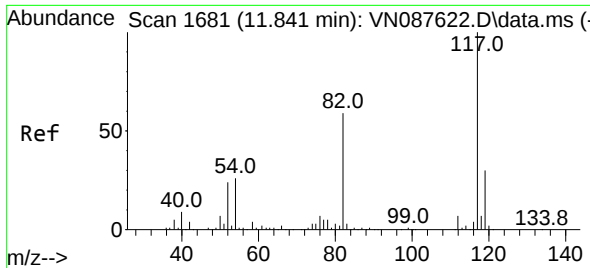
Tgt Ion: 98 Resp: 443881
Ion Ratio Lower Upper
98 100
100 63.3 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 39.400 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion: 95 Resp: 130838
Ion Ratio Lower Upper
95 100
174 71.6 0.0 138.4
176 68.7 0.0 132.6

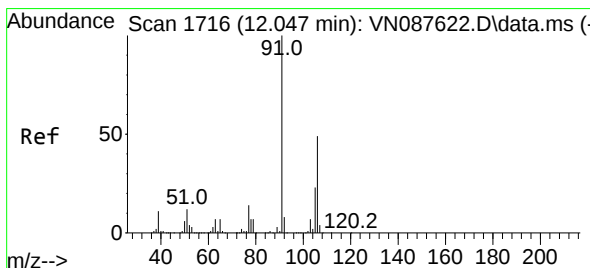
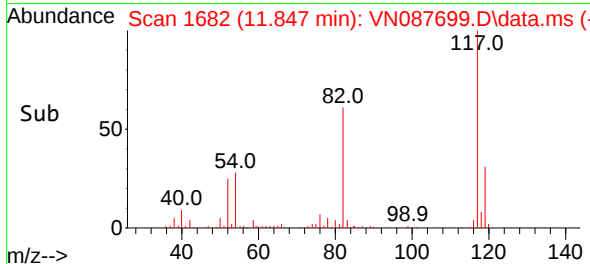
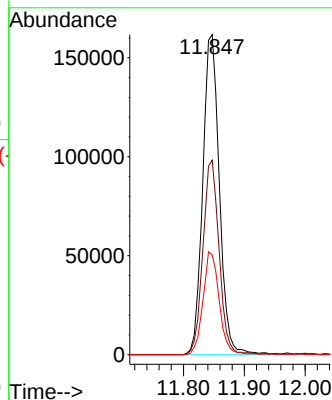
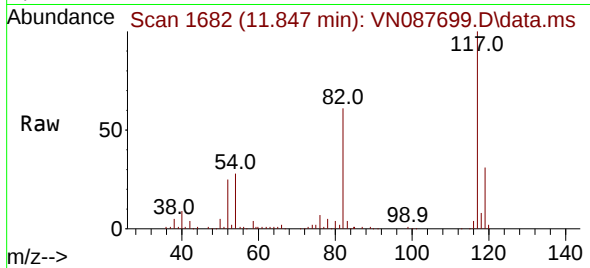




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

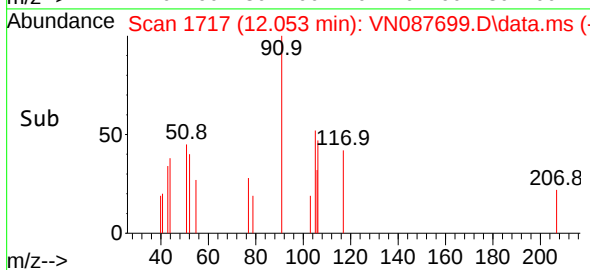
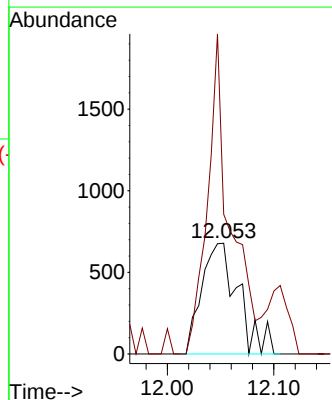
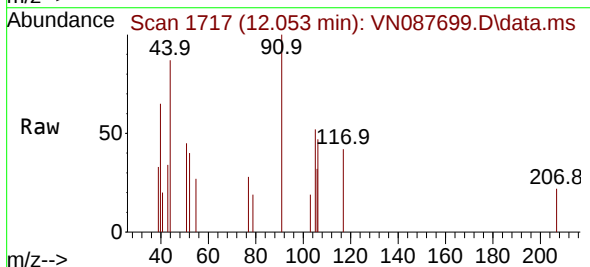
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

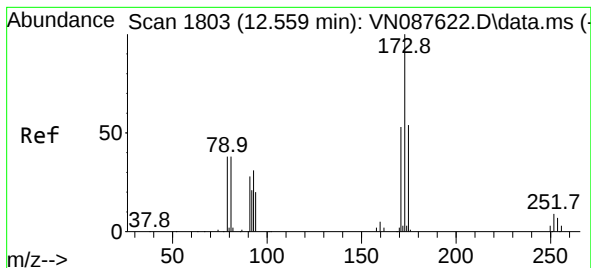
Tgt Ion:117 Resp: 307393
Ion Ratio Lower Upper
117 100
82 60.8 47.4 71.2
119 31.2 24.3 36.5



#68
m/p-Xylenes
Concen: 0.334 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion:106 Resp: 1623
Ion Ratio Lower Upper
106 100
91 181.9 169.3 253.9





#71

Bromoform

Concen: 0.620 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

Instrument :

MSVOA_N

ClientSampleId :

MOO-25-0237

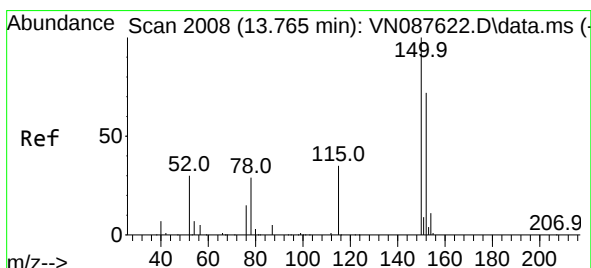
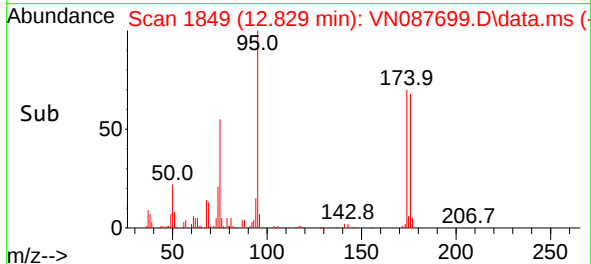
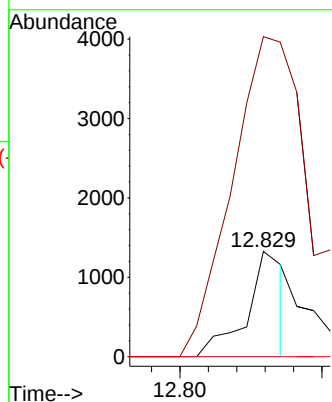
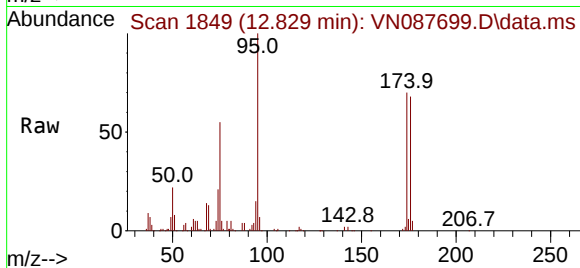
Tgt Ion:173 Resp: 1208

Ion Ratio Lower Upper

173 100

175 432.5 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

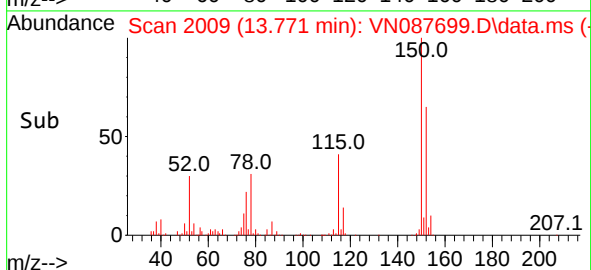
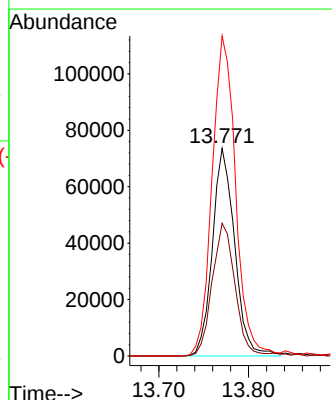
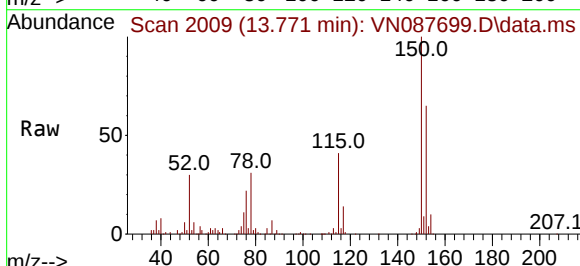
Tgt Ion:152 Resp: 126874

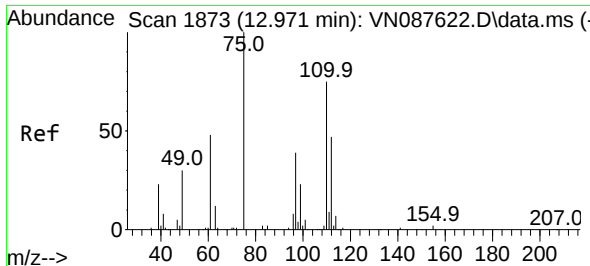
Ion Ratio Lower Upper

152 100

115 66.1 32.3 96.8

150 162.5 0.0 351.0

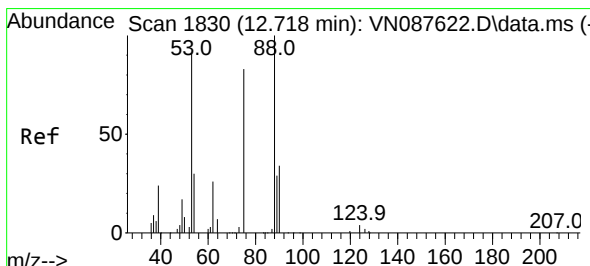
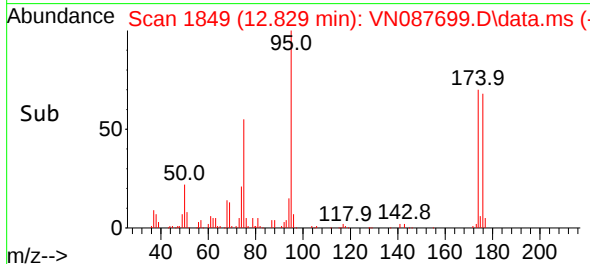
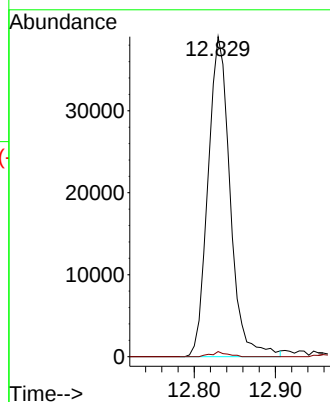
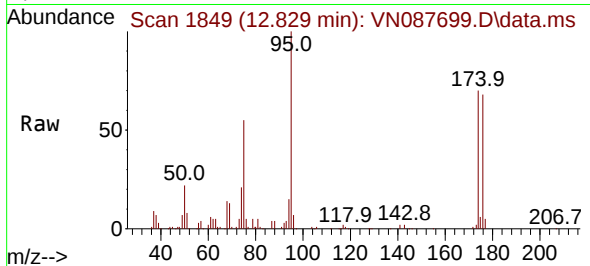




#76
1,2,3-Trichloropropane
Concen: 24.859 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

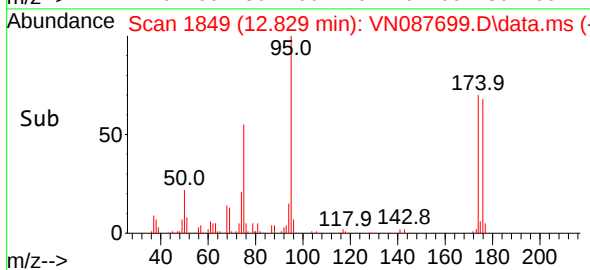
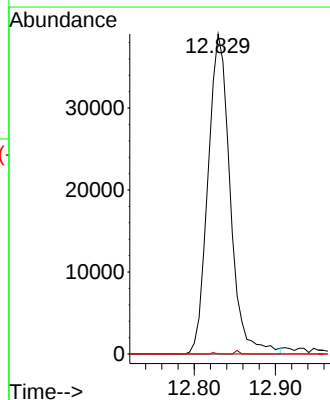
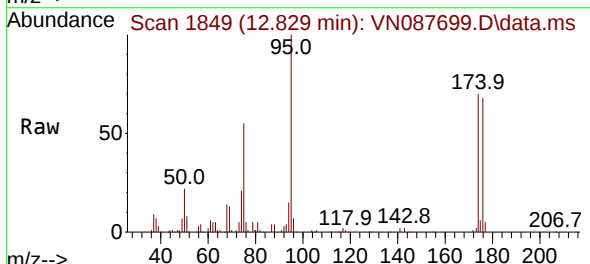
Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

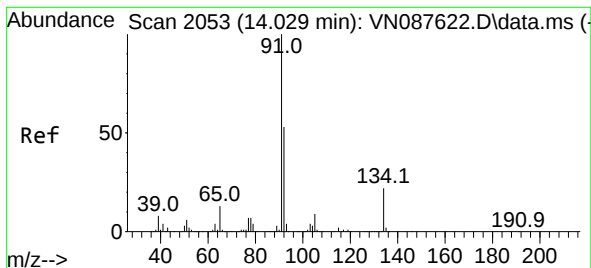
Tgt Ion: 75 Resp: 73961
Ion Ratio Lower Upper
75 100
77 1.1 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.810 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion: 75 Resp: 73961
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#





#89

n-Butylbenzene

Concen: 0.200 ug/l

RT: 14.041 min Scan# 2053

Delta R.T. 0.012 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

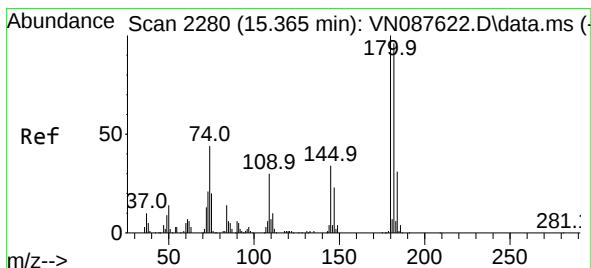
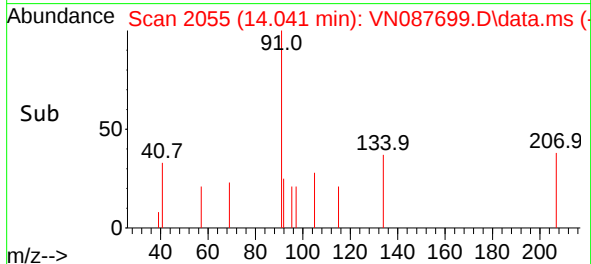
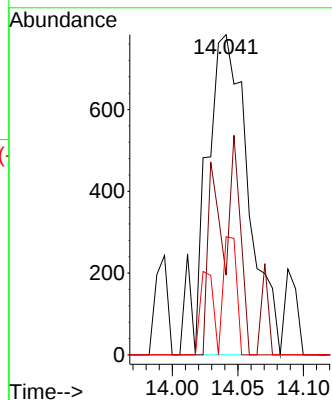
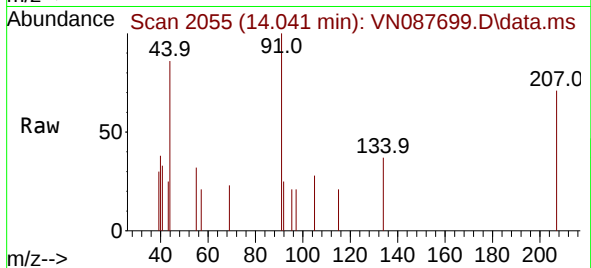
Instrument :

MSVOA_N

ClientSampleId :

MOO-25-0237

Tgt Ion: 91	Resp:	1765
Ion Ratio	Lower	Upper
91	100	
92	0.0	25.9
134	11.5	11.7



#93

1,2,4-Trichlorobenzene

Concen: 0.251 ug/l

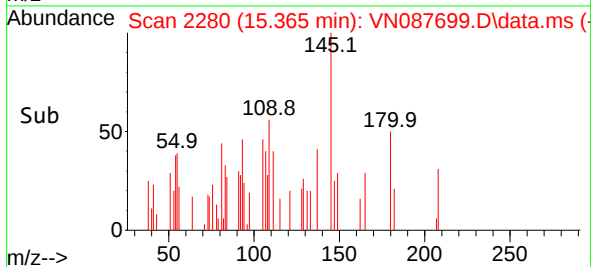
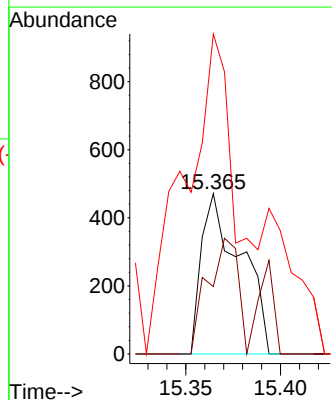
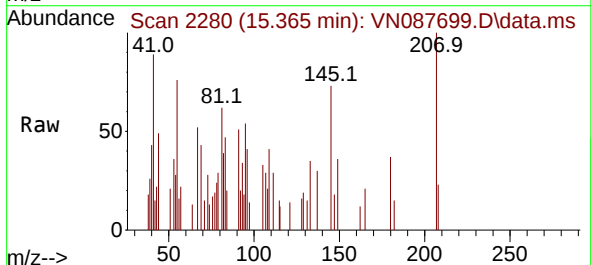
RT: 15.365 min Scan# 2280

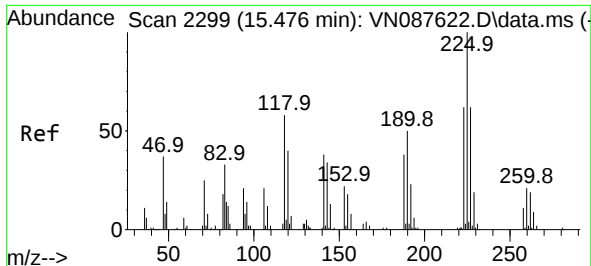
Delta R.T. 0.000 min

Lab File: VN087699.D

Acq: 29 Aug 2025 14:54

Tgt Ion: 180	Resp:	681
Ion Ratio	Lower	Upper
180	100	
182	55.7	47.6
145	264.3	16.5

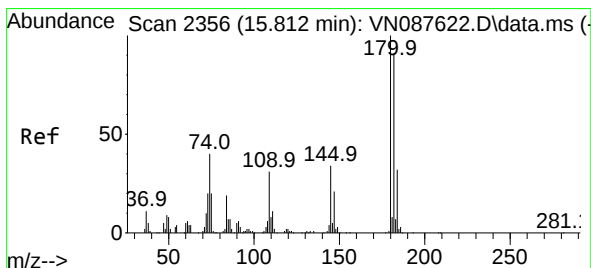
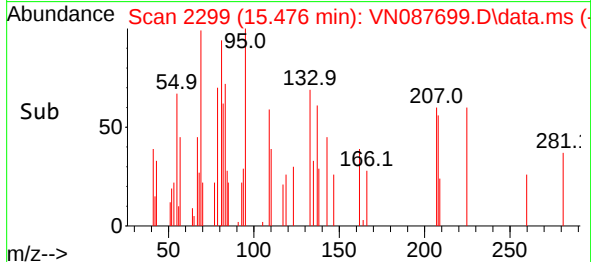
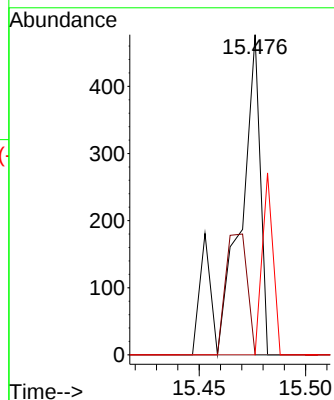
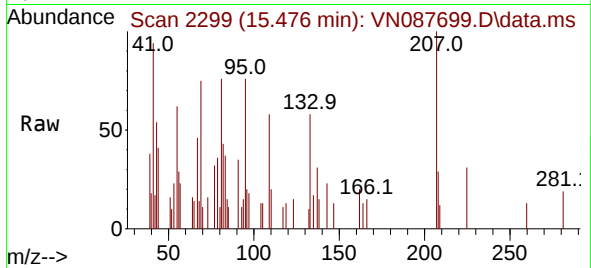




#94
Hexachlorobutadiene
Concen: 0.367 ug/l
RT: 15.476 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Instrument :
MSVOA_N
ClientSampleId :
MOO-25-0237

Tgt Ion:225 Resp: 355
Ion Ratio Lower Upper
225 100
223 35.5 32.0 96.2
227 27.0 32.1 96.5#



#96
1,2,3-Trichlorobenzene
Concen: 0.801 ug/l
RT: 15.823 min Scan# 2358
Delta R.T. 0.012 min
Lab File: VN087699.D
Acq: 29 Aug 2025 14:54

Tgt Ion:180 Resp: 2124
Ion Ratio Lower Upper
180 100
182 8.5 46.8 140.3#
145 0.0 17.3 52.0#

