

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086119.D
 Acq On : 26 Mar 2025 12:12
 Operator : JC\MD
 Sample : VN0326MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0326MBL01

Quant Time: Mar 27 01:33:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

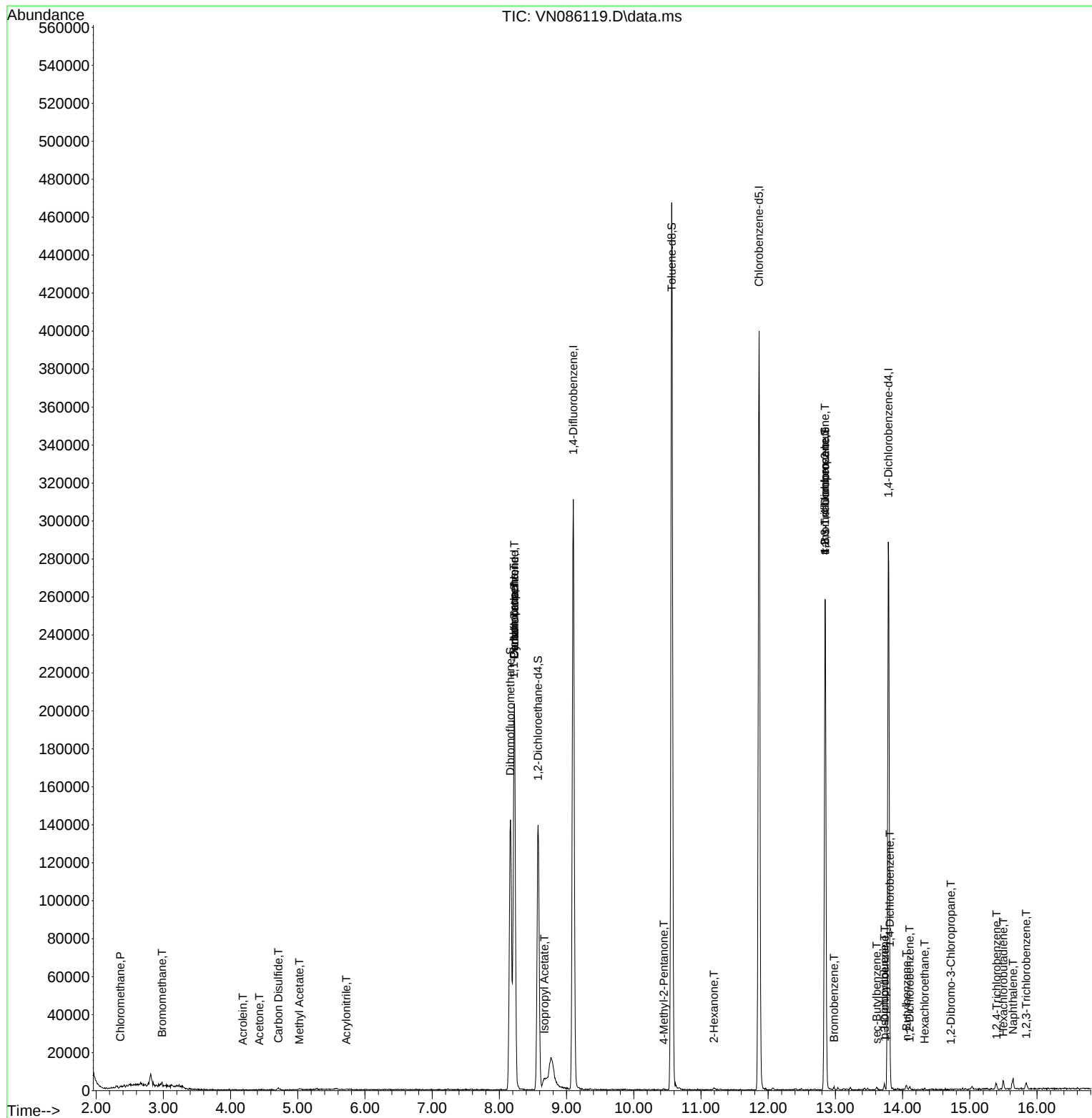
Internal Standards						
1) Pentafluorobenzene	8.224	168	146632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	273280	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	233807	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	84028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117627	58.582	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.160%			
35) Dibromofluoromethane	8.165	113	102390	53.679	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.360%			
50) Toluene-d8	10.565	98	332364	48.010	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.020%			
62) 4-Bromofluorobenzene	12.847	95	89866	36.400	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 72.800%#			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	622	0.365	ug/l #	42
5) Bromomethane	2.983	94	779	0.657	ug/l	90
13) Acrolein	4.183	56	165	0.544	ug/l #	15
15) Acrylonitrile	5.724	53	387	0.515	ug/l #	43
16) Acetone	4.430	43	334	0.544	ug/l #	38
17) Carbon Disulfide	4.712	76	2308	0.467	ug/l #	74
18) Methyl Acetate	5.024	43	403	0.266	ug/l #	70
31) Cyclohexane	8.224	56	2985	1.193	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	11412	4.544	ug/l #	48
38) Carbon Tetrachloride	8.224	117	16315	4.940	ug/l #	18
43) Isopropyl Acetate	8.671	43	3450	0.751	ug/l #	50
51) 4-Methyl-2-Pentanone	10.447	43	566	0.280	ug/l #	30
59) 2-Hexanone	11.194	43	1043	0.707	ug/l	59
76) 1,2,3-Trichloropropane	12.847	75	45018	23.930	ug/l #	1
77) Bromobenzene	12.982	156	347	0.217	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.847	75	45018	63.267	ug/l #	16
85) sec-Butylbenzene	13.618	105	1359	0.251	ug/l	81
86) p-Isopropyltoluene	13.729	119	1383	0.302	ug/l #	75
87) 1,3-Dichlorobenzene	13.735	146	968	0.336	ug/l #	79
88) 1,4-Dichlorobenzene	13.812	146	1267	0.418	ug/l #	63
89) n-Butylbenzene	14.059	91	1923	0.516	ug/l	94
90) Hexachloroethane	14.329	117	267	0.253	ug/l #	37
91) 1,2-Dichlorobenzene	14.106	146	898	0.313	ug/l	87
92) 1,2-Dibromo-3-Chloropr...	14.717	75	112	0.289	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.400	180	1644	1.140	ug/l	84
94) Hexachlorobutadiene	15.500	225	1381	1.651	ug/l	94
95) Naphthalene	15.647	128	6273	1.503	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	1686	1.233	ug/l	92

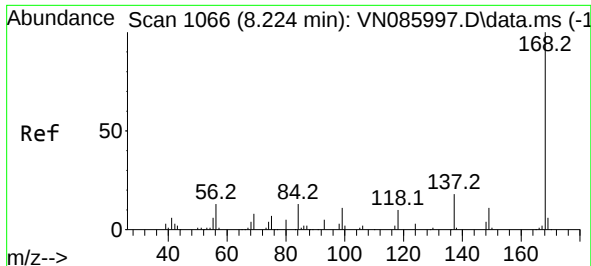
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
Data File : VN086119.D
Acq On : 26 Mar 2025 12:12
Operator : JC\MD
Sample : VN0326MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

Quant Time: Mar 27 01:33:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

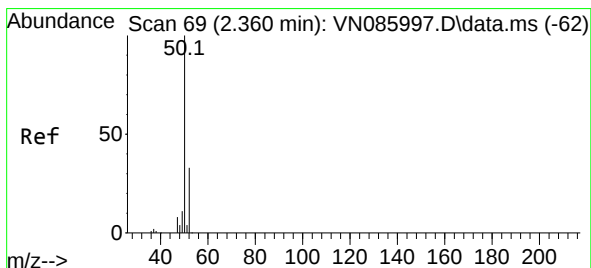
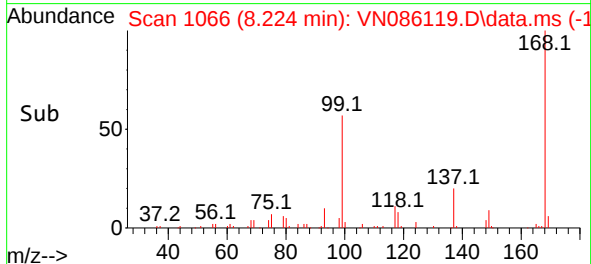
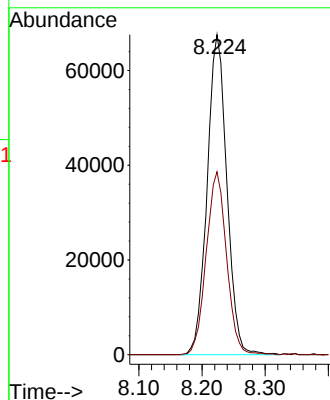
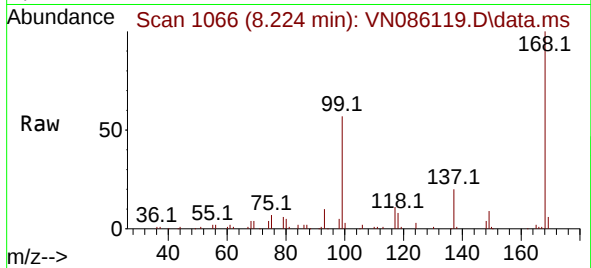




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

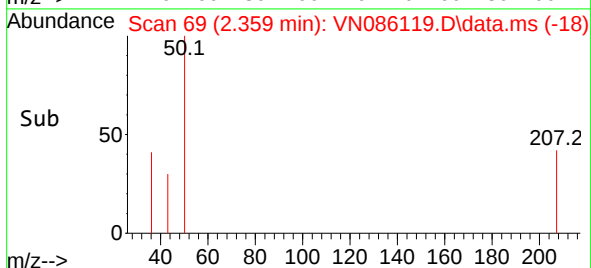
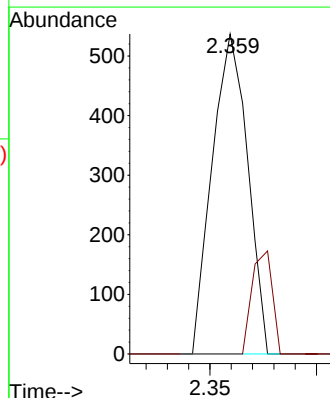
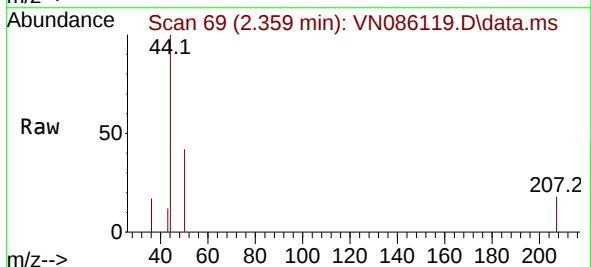
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

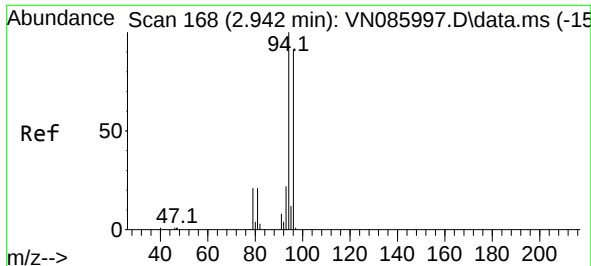
Tgt Ion:168 Resp: 146632
Ion Ratio Lower Upper
168 100
99 57.1 49.4 74.2



#3
Chloromethane
Concen: 0.365 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 50 Resp: 622
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

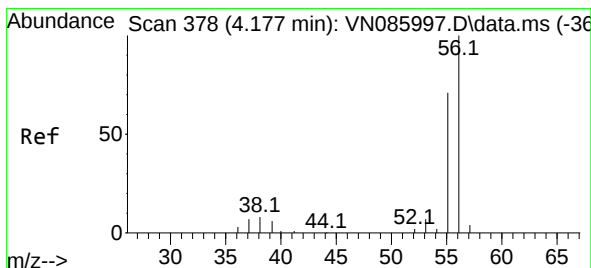
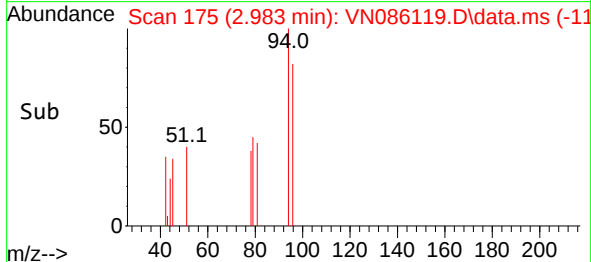
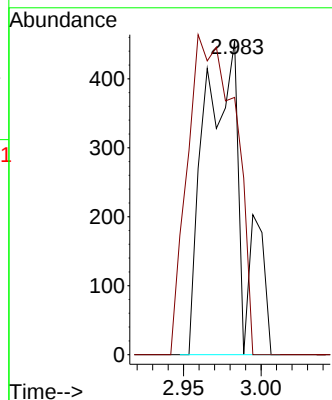
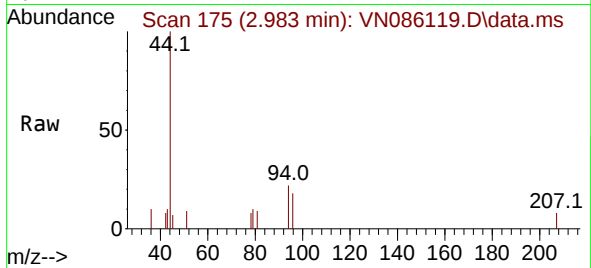




#5
Bromomethane
Concen: 0.657 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

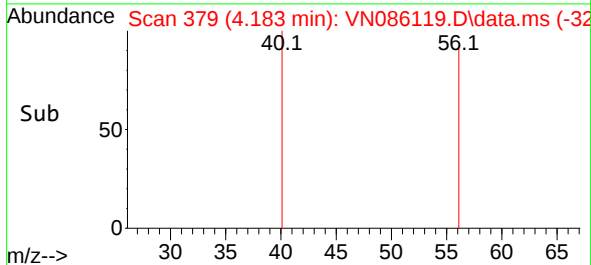
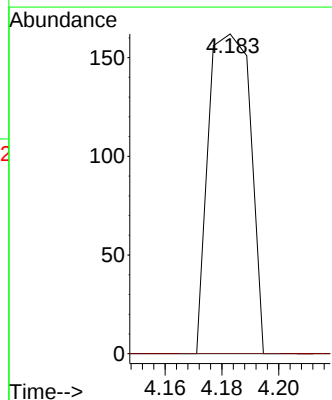
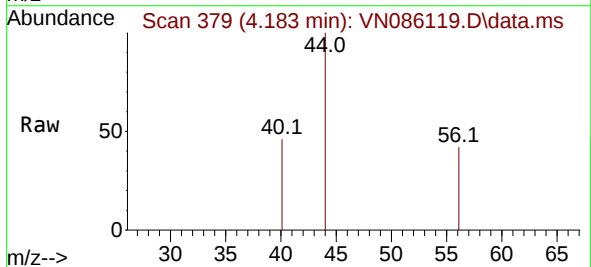
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

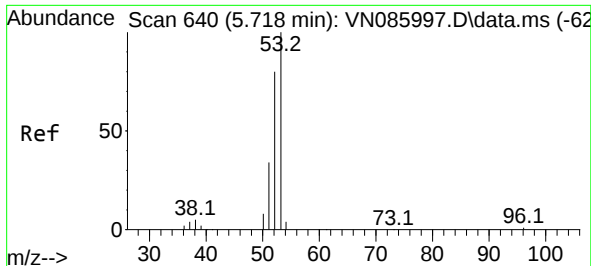
Tgt Ion: 94 Resp: 779
Ion Ratio Lower Upper
94 100
96 82.0 72.8 109.2



#13
Acrolein
Concen: 0.544 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 56 Resp: 165
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

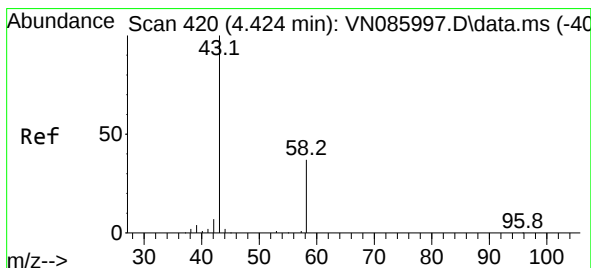
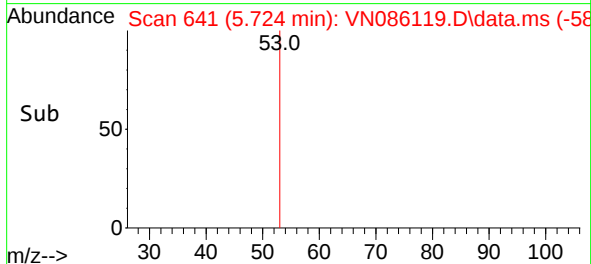
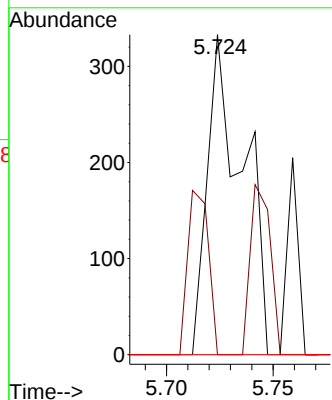
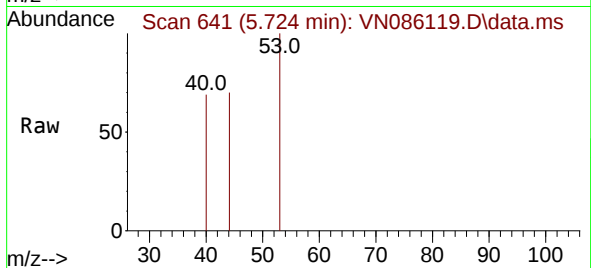




#15
Acrylonitrile
Concen: 0.515 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.006 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

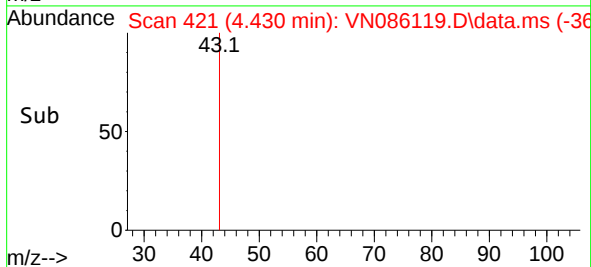
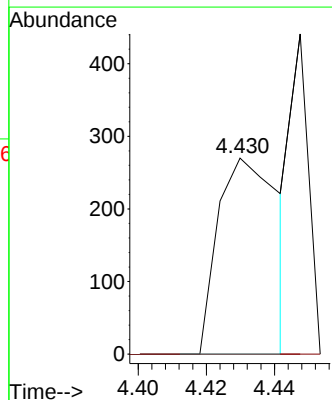
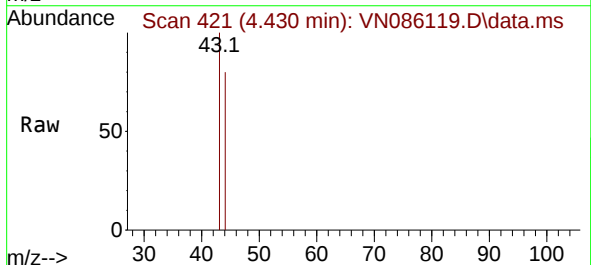
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

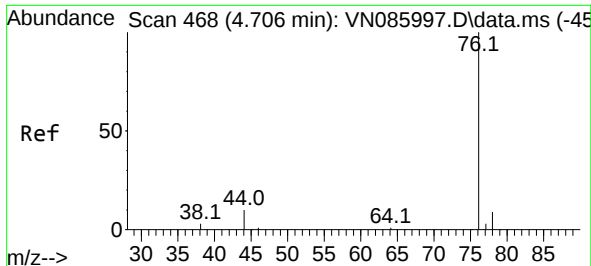
Tgt Ion: 53 Resp: 387
Ion Ratio Lower Upper
53 100
52 30.0 63.9 95.9#
51 0.0 27.1 40.7#



#16
Acetone
Concen: 0.544 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 43 Resp: 334
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.2#

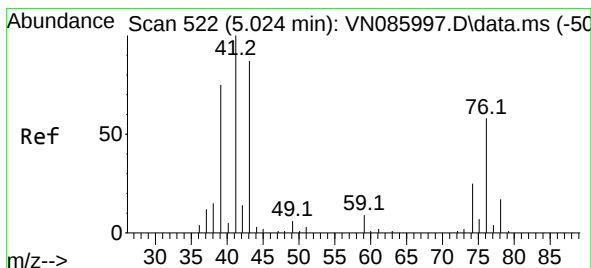
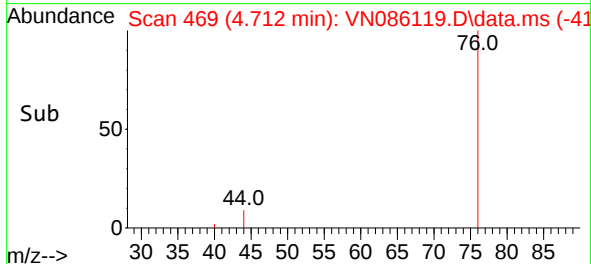
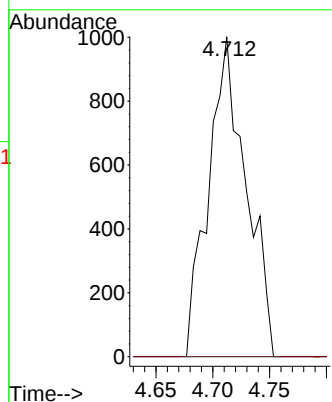
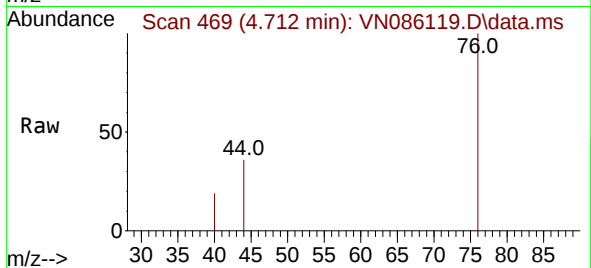




#17
Carbon Disulfide
Concen: 0.467 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

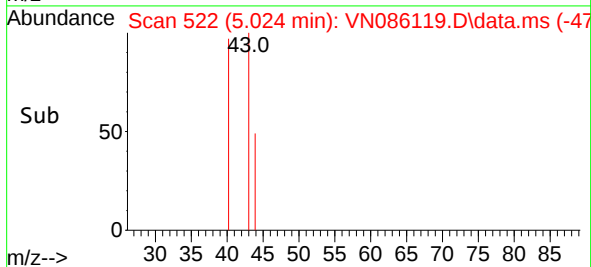
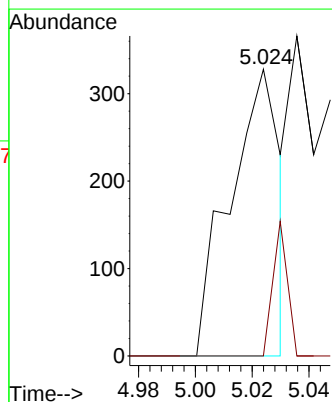
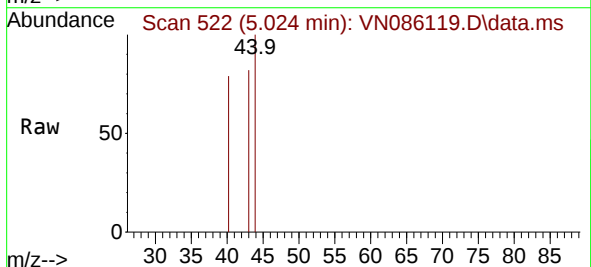
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

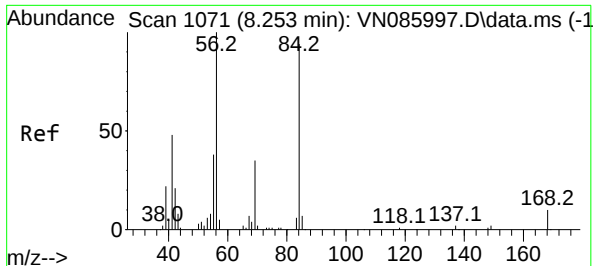
Tgt Ion: 76 Resp: 2308
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 0.266 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 43 Resp: 403
Ion Ratio Lower Upper
43 100
74 13.4 23.9 35.9#

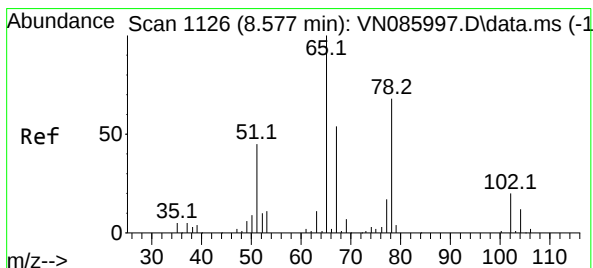
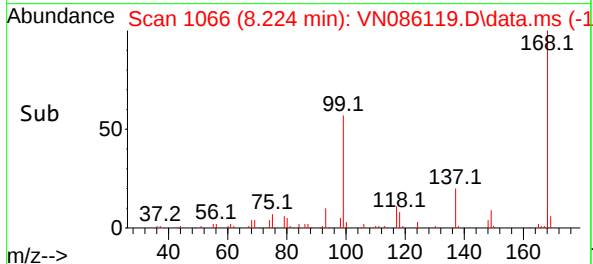
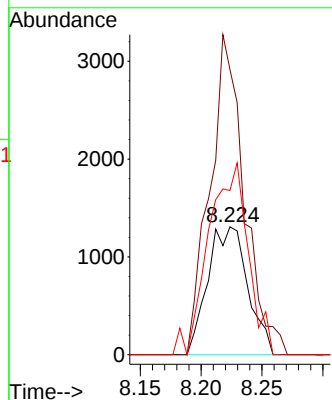
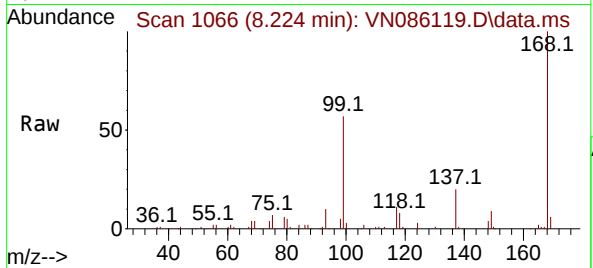




#31
Cyclohexane
Concen: 1.193 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

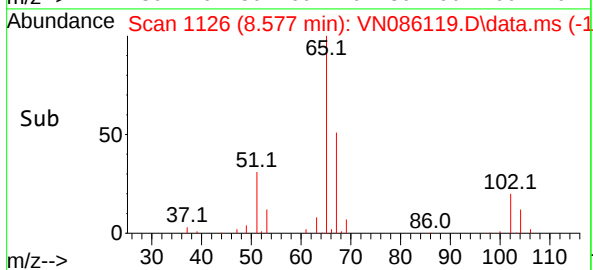
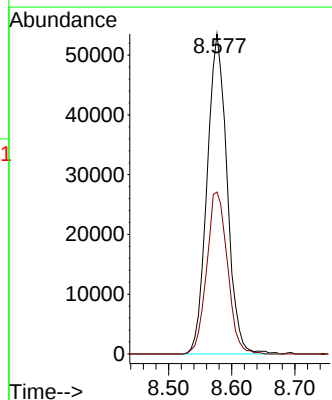
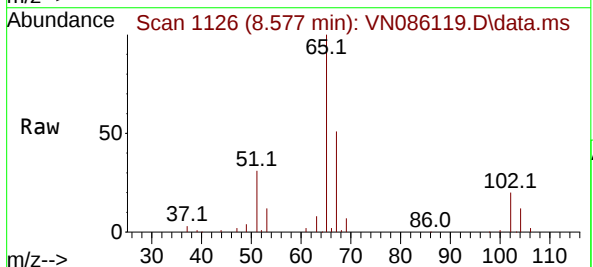
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

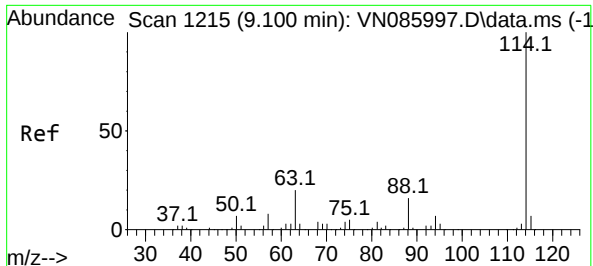
Tgt Ion: 56 Resp: 2985
Ion Ratio Lower Upper
56 100
69 222.9 28.0 42.0#
84 128.3 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 58.582 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 65 Resp: 117627
Ion Ratio Lower Upper
65 100
67 52.6 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

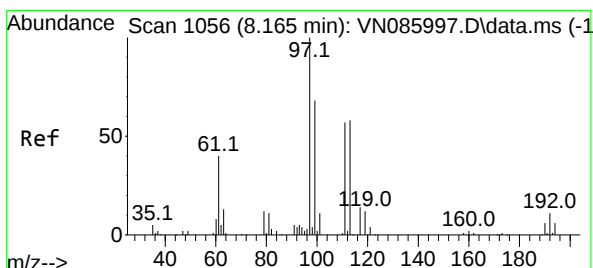
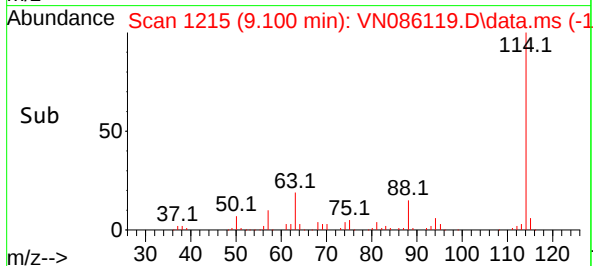
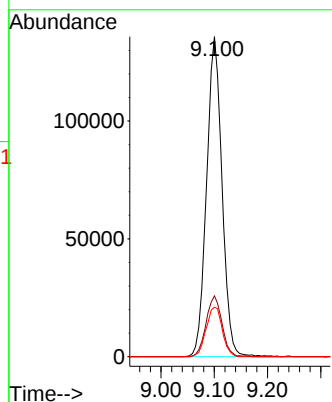
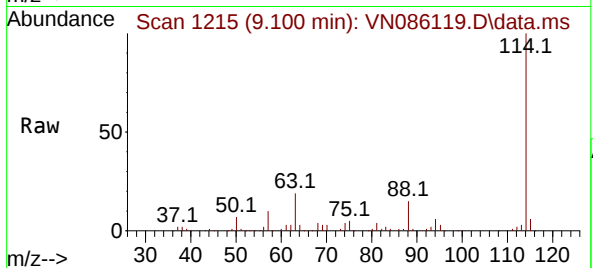
Tgt Ion:114 Resp: 273280

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.679 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

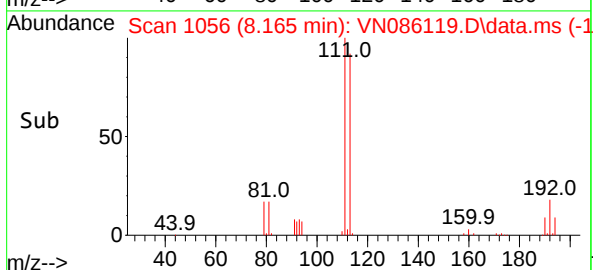
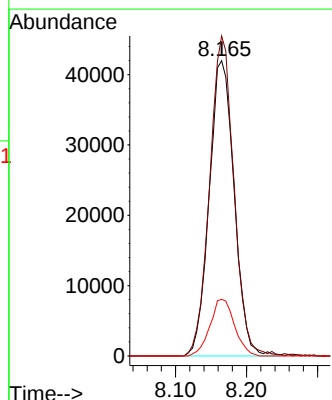
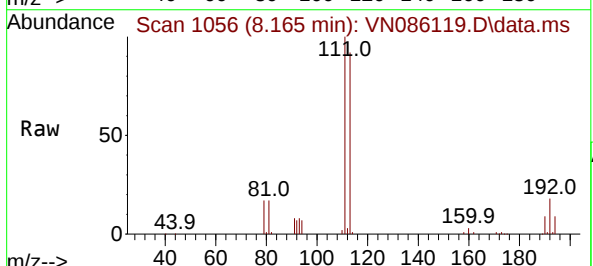
Tgt Ion:113 Resp: 102390

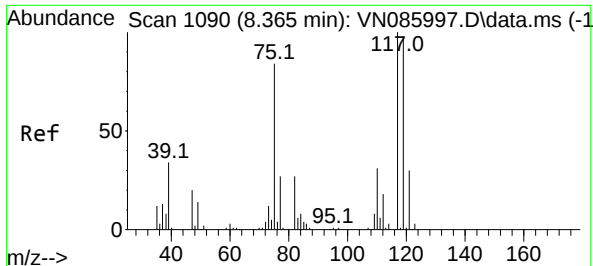
Ion Ratio Lower Upper

113 100

111 104.9 81.8 122.8

192 18.9 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.544 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

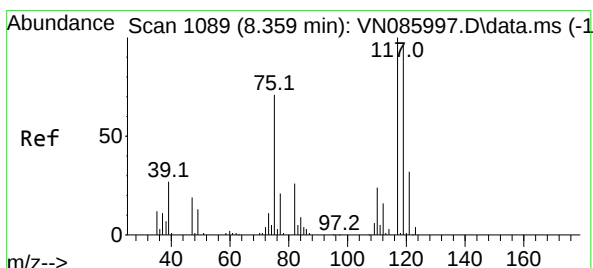
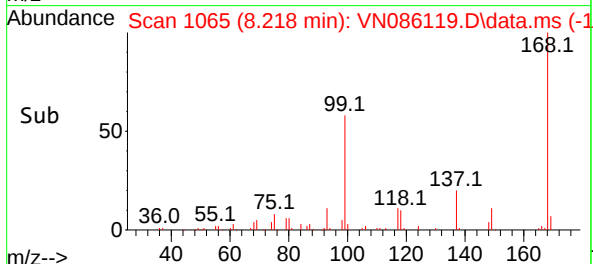
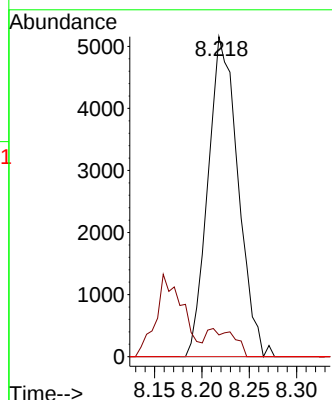
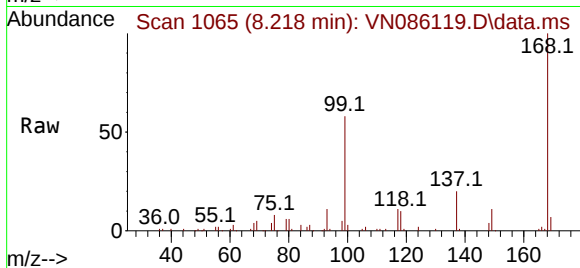
Tgt Ion: 75 Resp: 11412

Ion Ratio Lower Upper

75 100

110 7.9 17.8 53.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.940 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

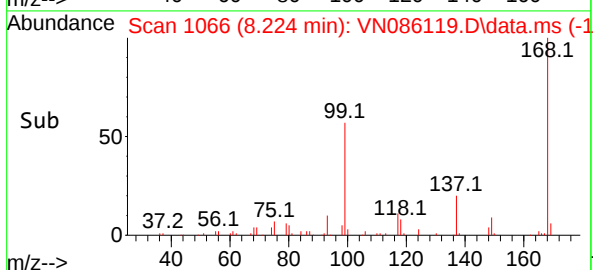
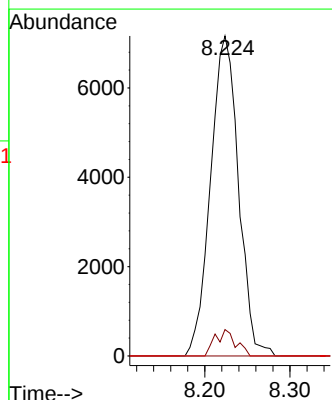
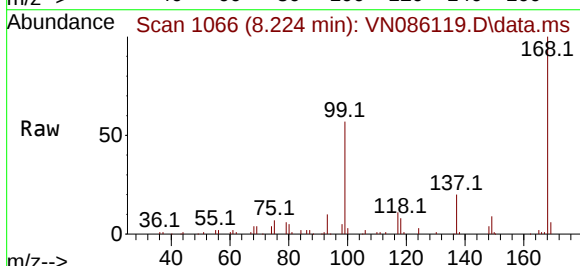
Tgt Ion: 117 Resp: 16315

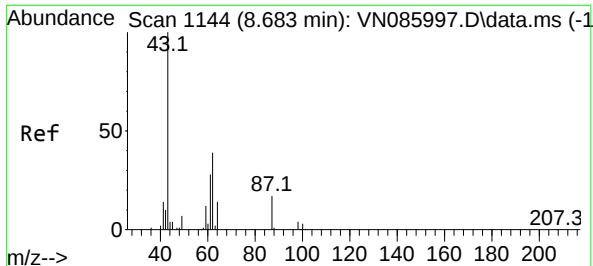
Ion Ratio Lower Upper

117 100

119 8.2 77.0 115.4#

121 0.0 25.6 38.4#





#43

Isopropyl Acetate

Concen: 0.751 ug/l

RT: 8.671 min Scan# 1144

Delta R.T. -0.012 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

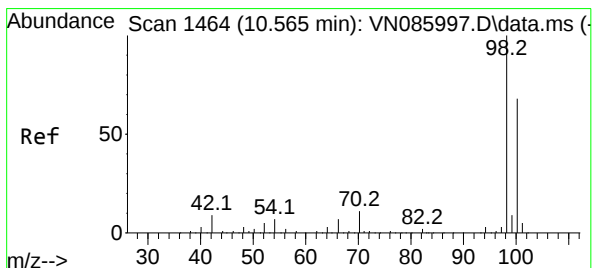
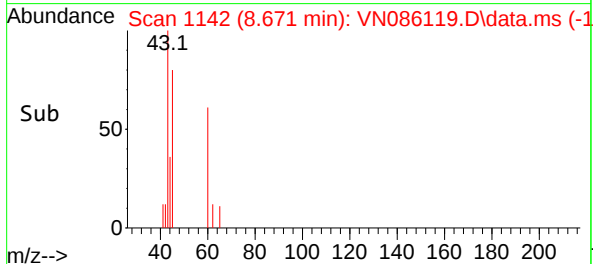
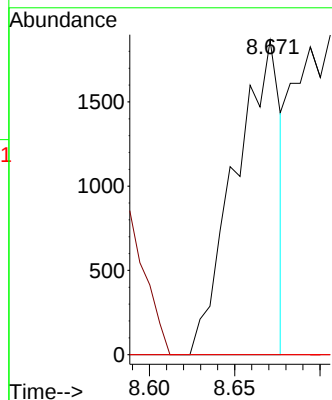
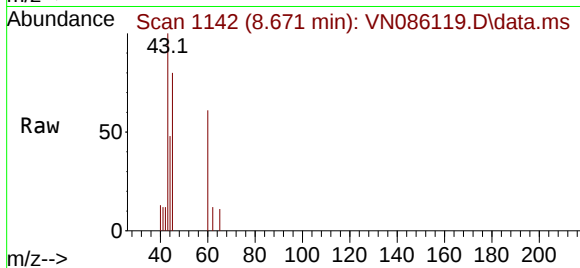
Tgt Ion: 43 Resp: 3450

Ion Ratio Lower Upper

43 100

61 0.0 25.0 37.6#

87 0.0 13.0 19.4#



#50

Toluene-d8

Concen: 48.010 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086119.D

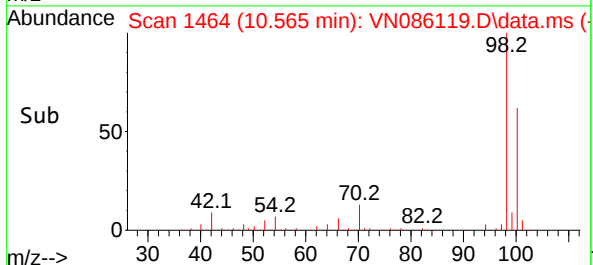
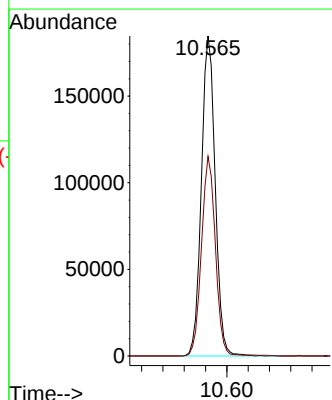
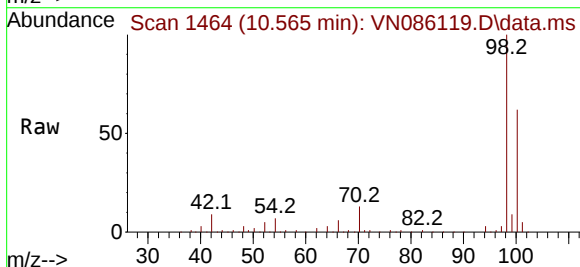
Acq: 26 Mar 2025 12:12

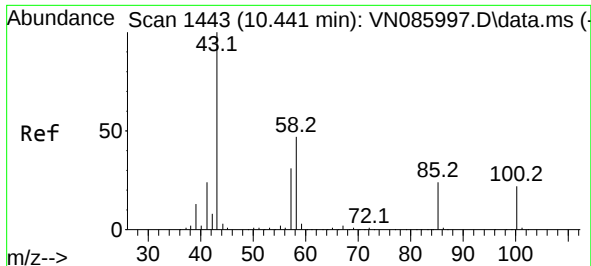
Tgt Ion: 98 Resp: 332364

Ion Ratio Lower Upper

98 100

100 62.7 53.1 79.7

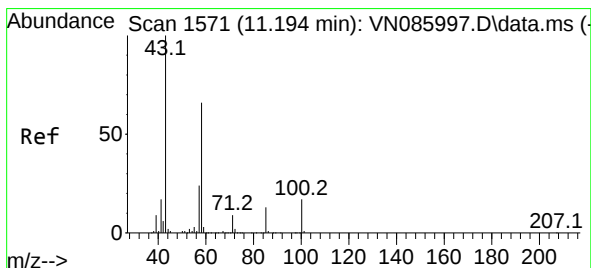
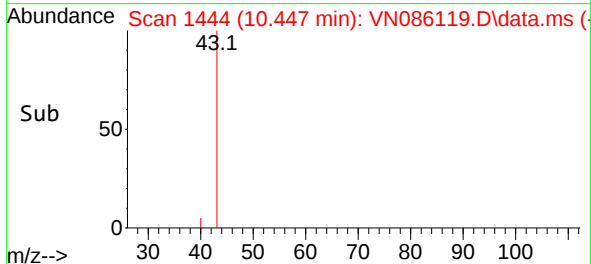
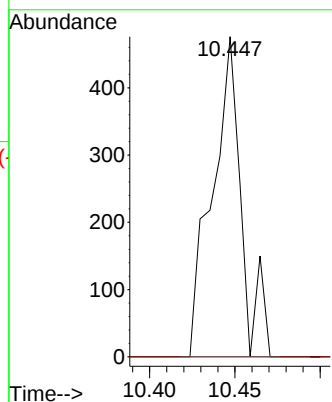
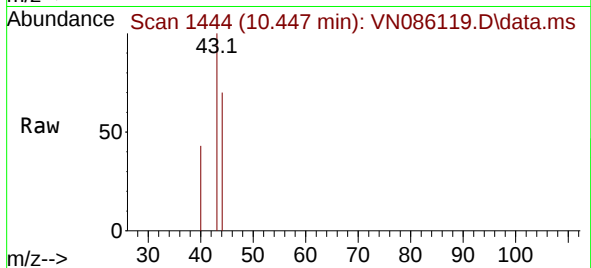




#51
4-Methyl-2-Pentanone
Concen: 0.280 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

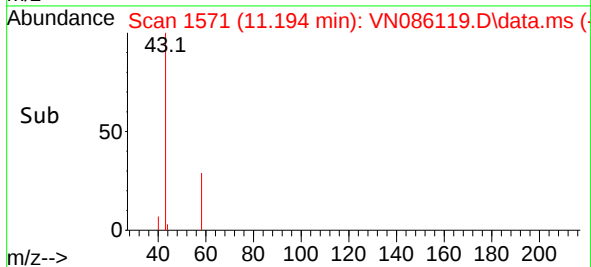
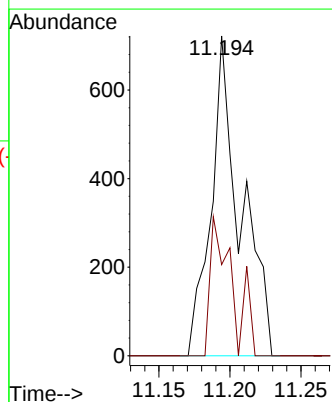
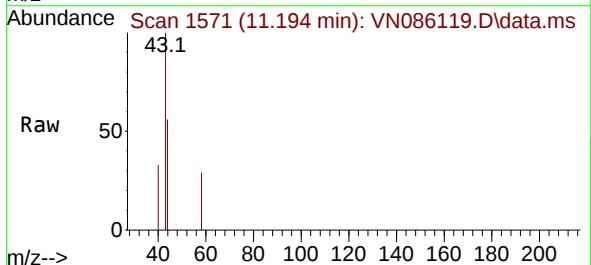
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

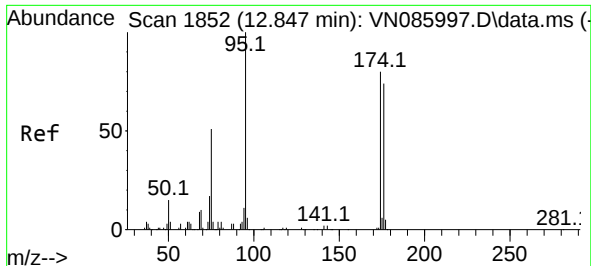
Tgt Ion: 43 Resp: 566
Ion Ratio Lower Upper
43 100
58 0.0 37.4 56.0#



#59
2-Hexanone
Concen: 0.707 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 43 Resp: 1043
Ion Ratio Lower Upper
43 100
58 32.7 32.4 97.2

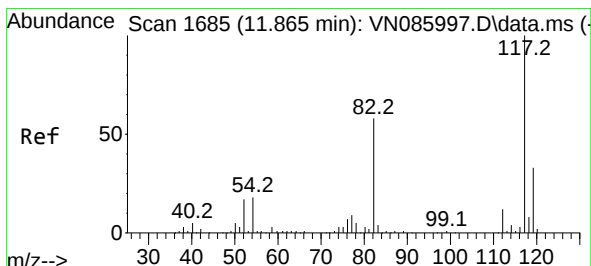
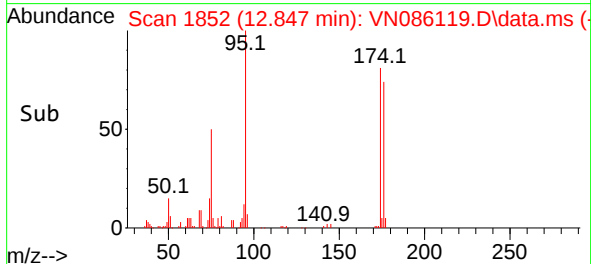
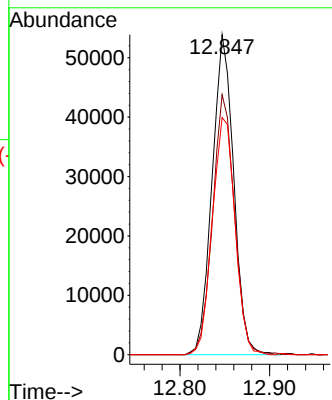
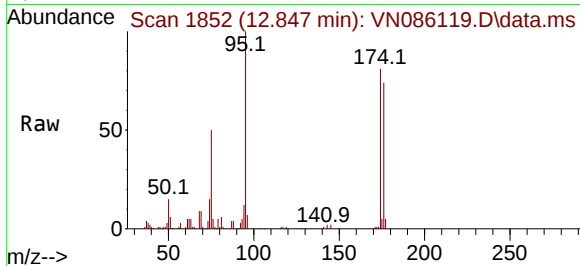




#62
4-Bromofluorobenzene
Concen: 36.400 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

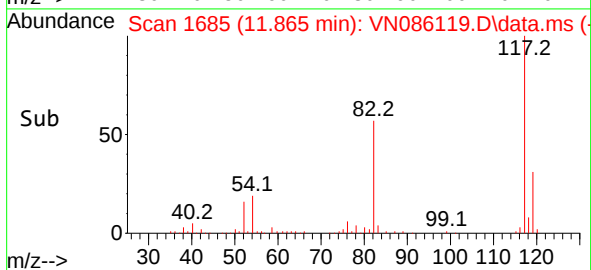
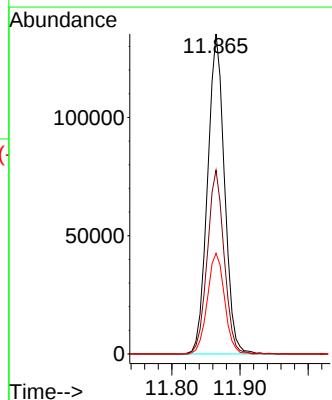
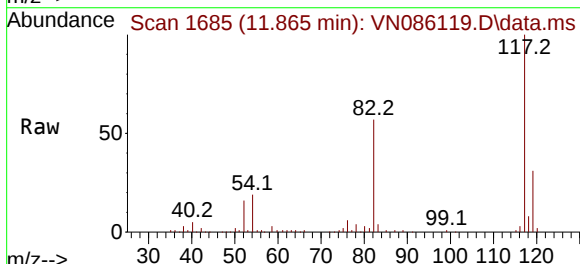
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

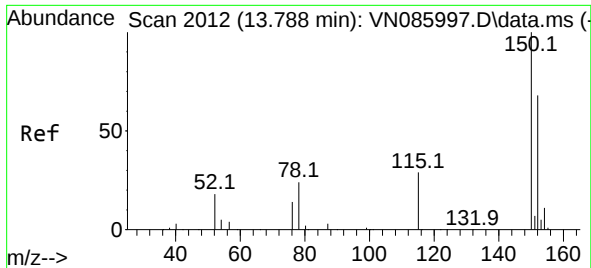
Tgt Ion:	95	Resp:	89866
Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	156.8
176	78.3	0.0	152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion:	117	Resp:	233807
Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.7	70.1
119	31.5	26.5	39.7

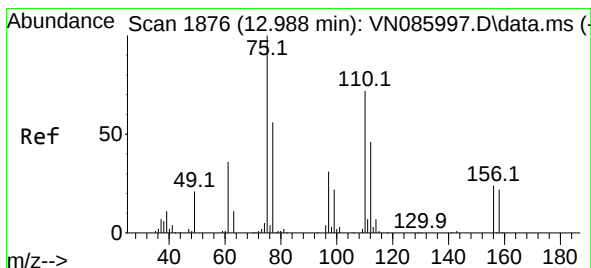
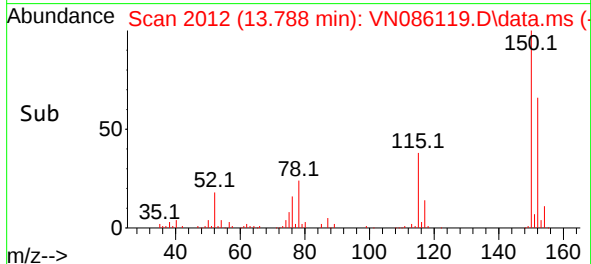
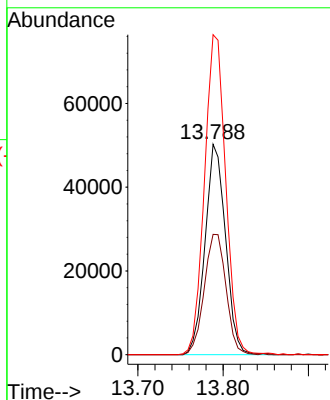
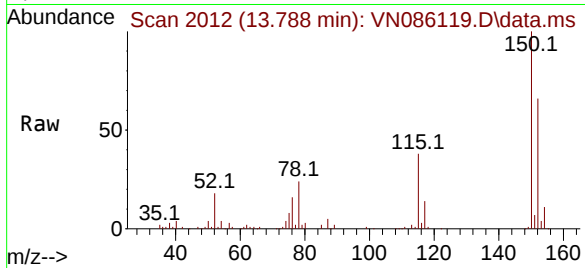




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

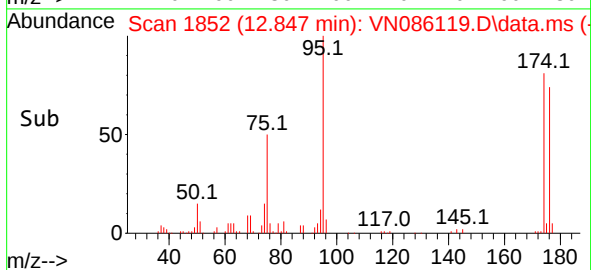
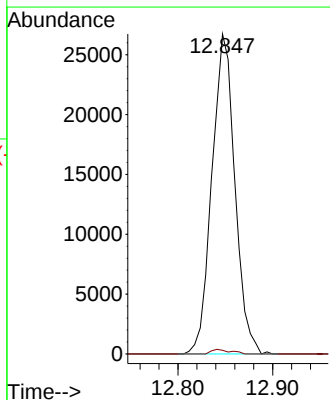
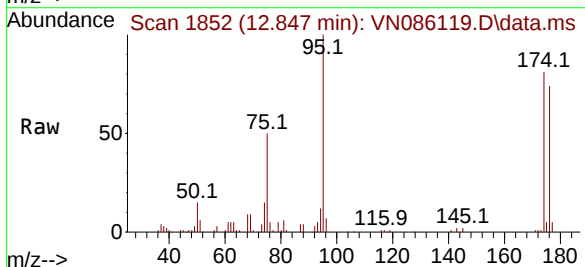
Instrument :
MSVOA_N
ClientSampleId :
VN0326MBL01

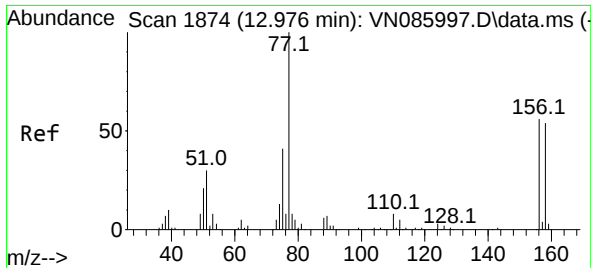
Tgt Ion:152 Resp: 84028
Ion Ratio Lower Upper
152 100
115 60.7 31.1 93.2
150 157.3 0.0 359.6



#76
1,2,3-Trichloropropane
Concen: 23.930 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086119.D
Acq: 26 Mar 2025 12:12

Tgt Ion: 75 Resp: 45018
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#

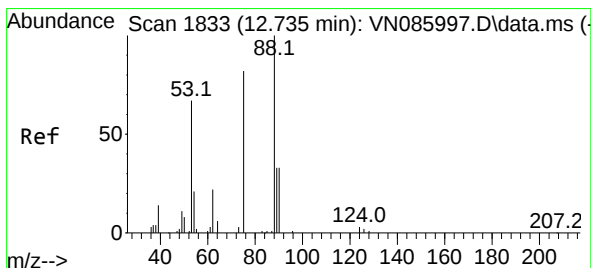
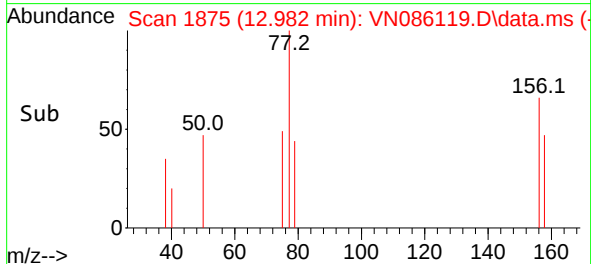
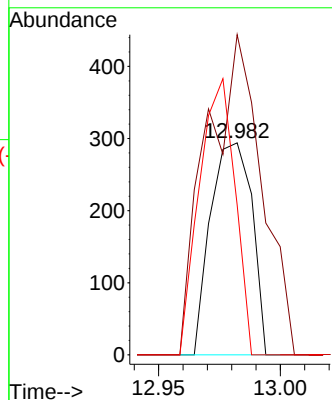
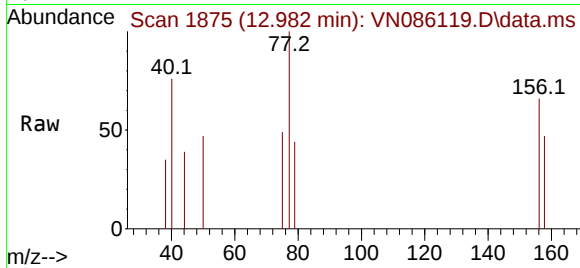




#77
 Bromobenzene
 Concen: 0.217 ug/l
 RT: 12.982 min Scan# 1875
 Delta R.T. 0.006 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

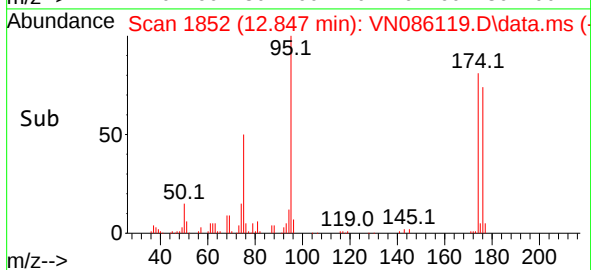
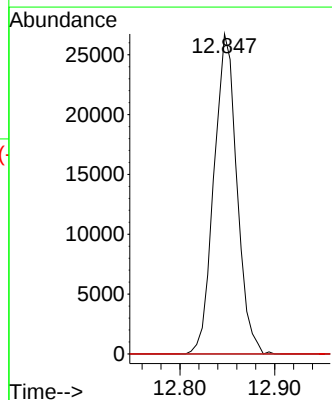
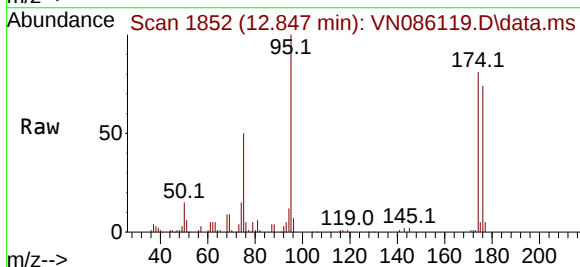
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0326MBL01

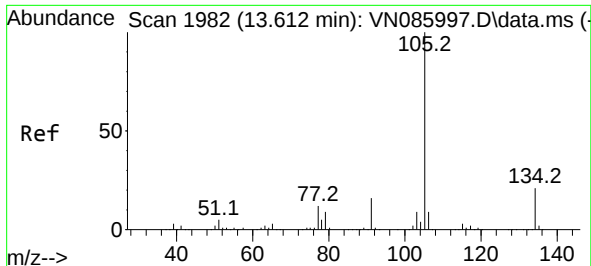
Tgt Ion:156 Resp: 347
 Ion Ratio Lower Upper
 156 100
 77 200.9 104.1 312.3
 158 112.4 49.0 147.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.267 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

Tgt Ion: 75 Resp: 45018
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.0 99.0#
 89 0.0 36.9 55.3#

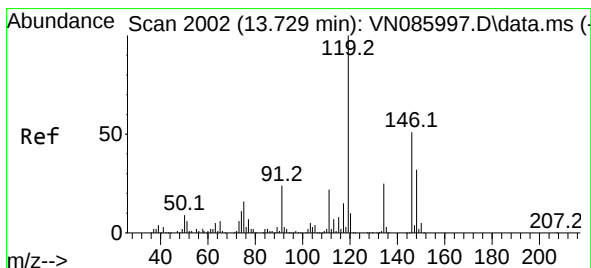
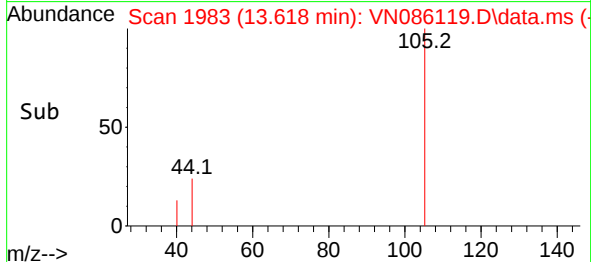
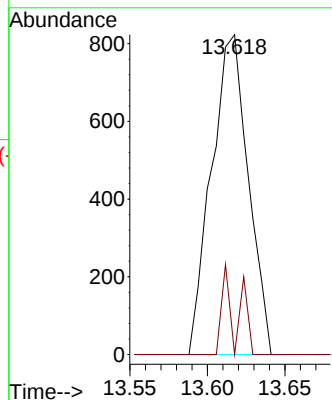
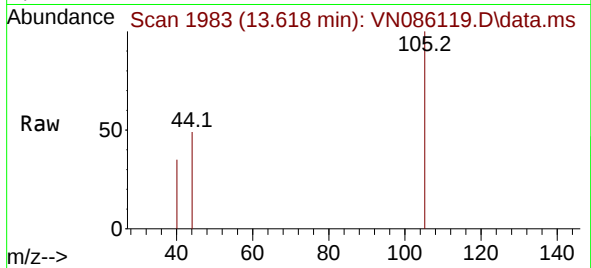




#85
 sec-Butylbenzene
 Concen: 0.251 ug/l
 RT: 13.618 min Scan# 1982
 Delta R.T. 0.006 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

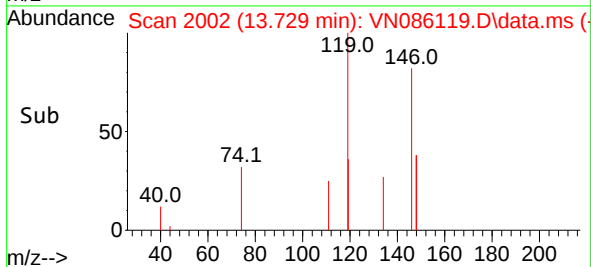
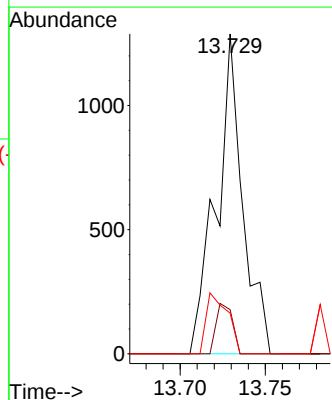
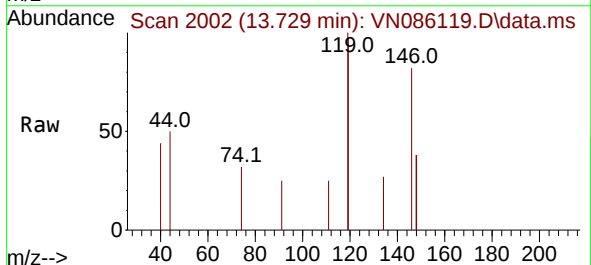
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0326MBL01

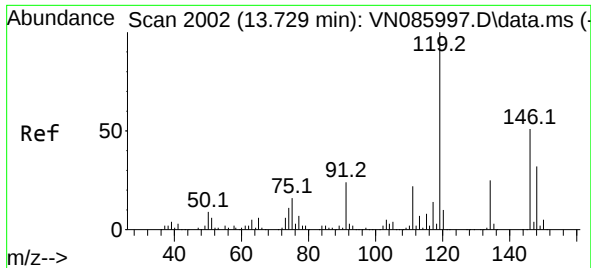
Tgt Ion:105 Resp: 1359
 Ion Ratio Lower Upper
 105 100
 134 11.2 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 0.302 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

Tgt Ion:119 Resp: 1383
 Ion Ratio Lower Upper
 119 100
 134 9.7 12.6 37.8#
 91 15.5 12.3 36.8

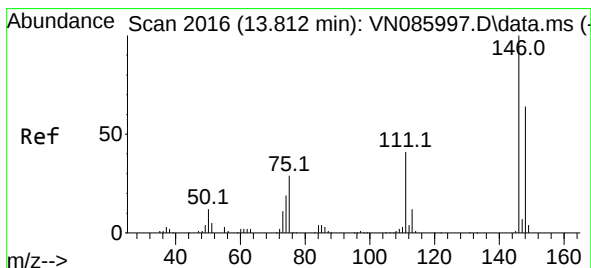
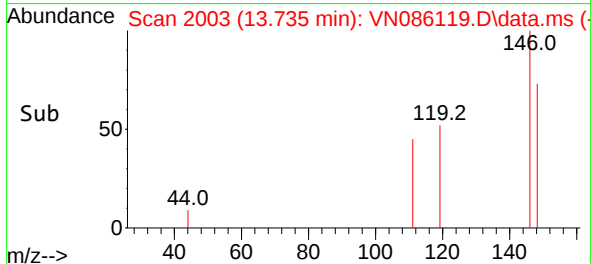
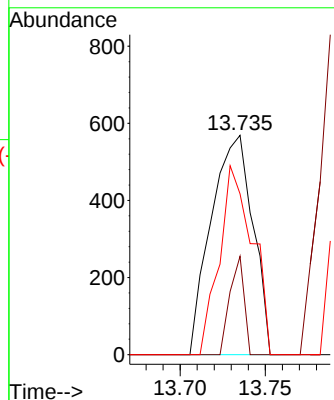
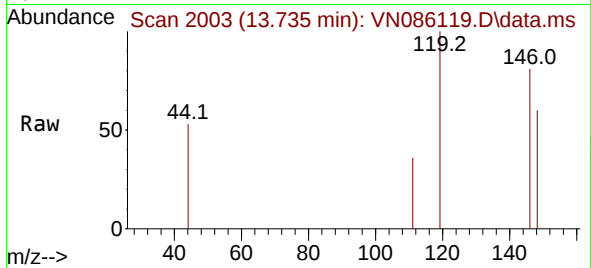




#87
 1,3-Dichlorobenzene
 Concen: 0.336 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.006 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

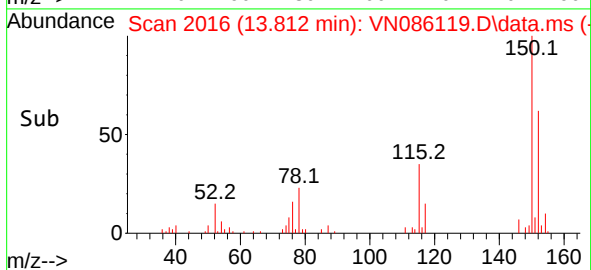
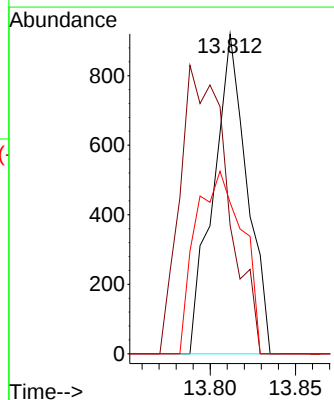
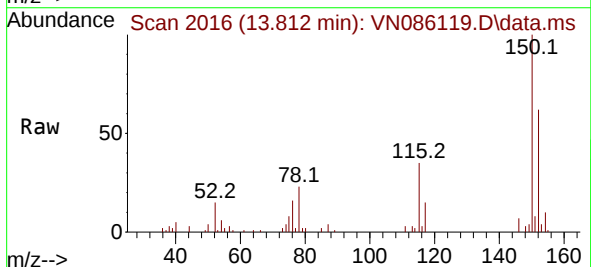
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0326MBL01

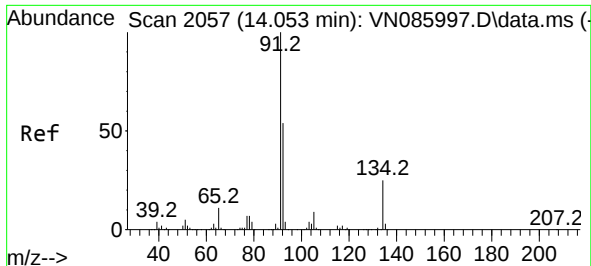
Tgt Ion:146 Resp: 968
 Ion Ratio Lower Upper
 146 100
 111 15.3 21.2 63.6#
 148 68.4 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 0.418 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

Tgt Ion:146 Resp: 1267
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.4 61.3#
 148 79.2 32.1 96.5





#89

n-Butylbenzene

Concen: 0.516 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

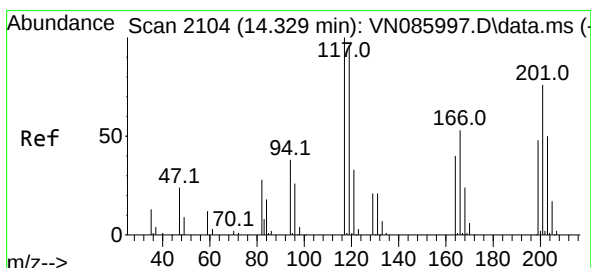
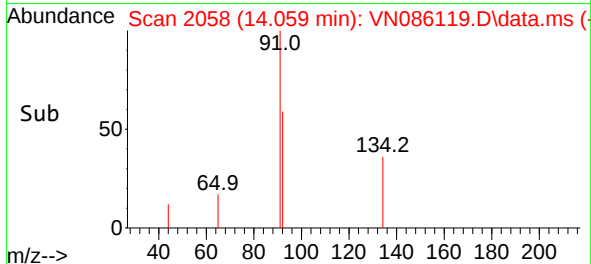
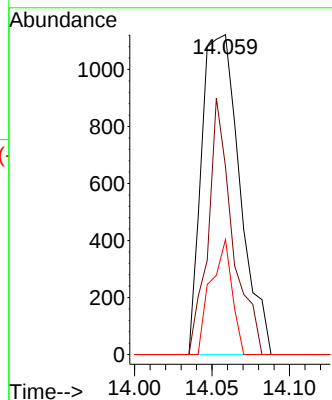
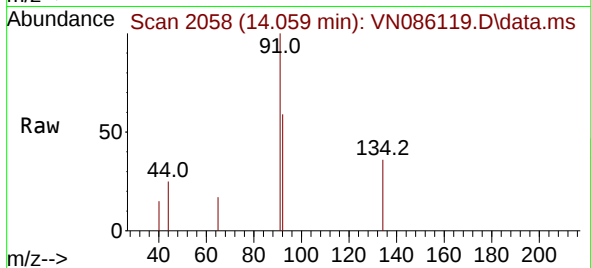
Tgt Ion: 91 Resp: 1923

Ion Ratio Lower Upper

91 100

92 51.2 26.9 80.6

134 20.0 13.0 39.0



#90

Hexachloroethane

Concen: 0.253 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086119.D

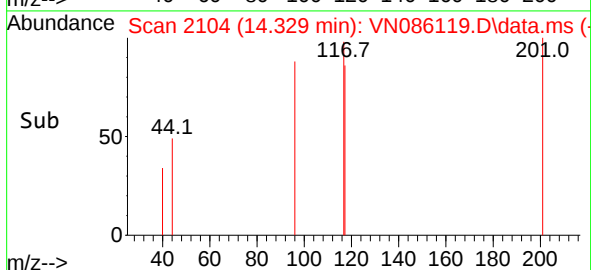
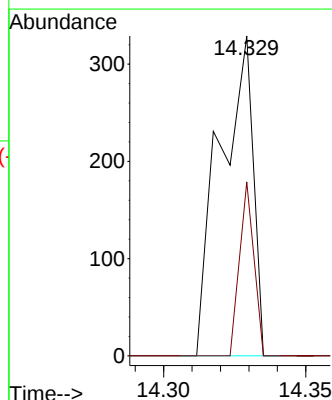
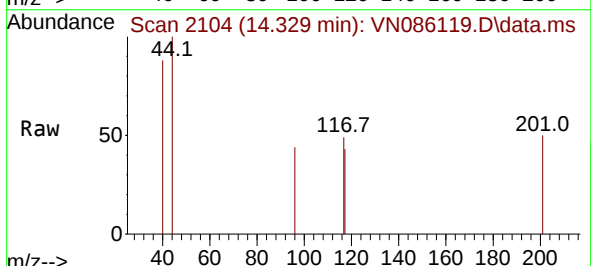
Acq: 26 Mar 2025 12:12

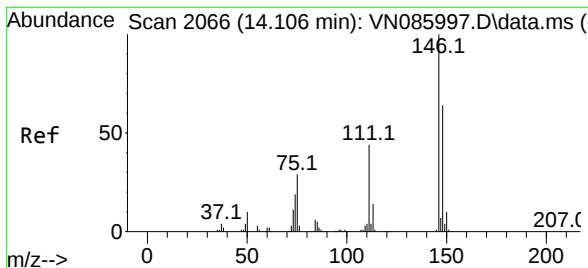
Tgt Ion: 117 Resp: 267

Ion Ratio Lower Upper

117 100

201 23.6 39.1 117.3#

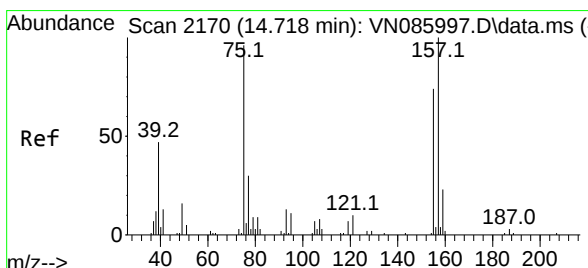
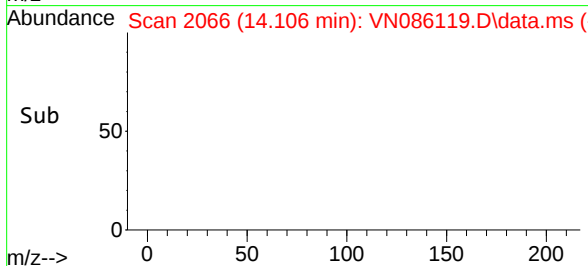
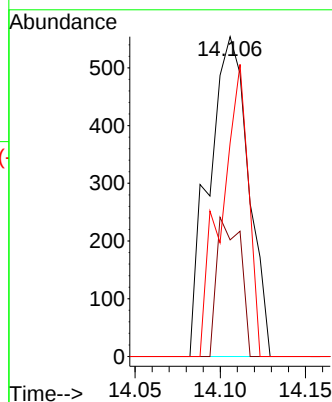
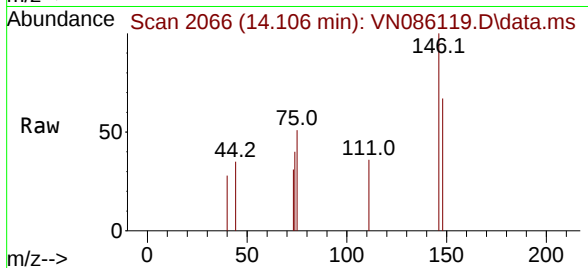




#91
 1,2-Dichlorobenzene
 Concen: 0.313 ug/l
 RT: 14.106 min Scan# 2066
 Delta R.T. -0.000 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

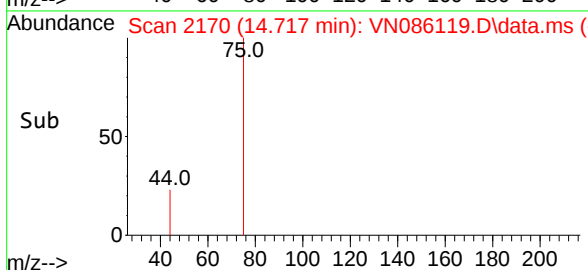
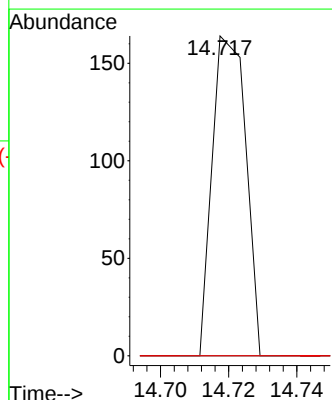
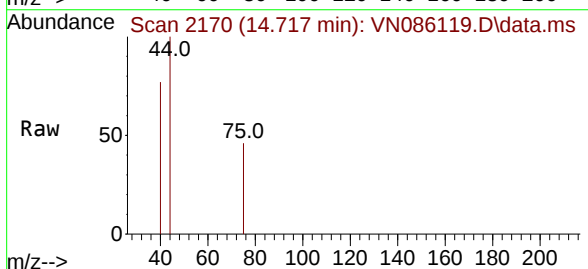
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0326MBL01

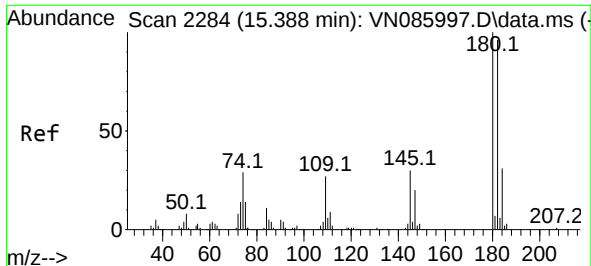
Tgt Ion:	146	Resp:	898
Ion	Ratio	Lower	Upper
146	100		
111	25.9	22.3	66.8
148	62.5	32.1	96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.289 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN086119.D
 Acq: 26 Mar 2025 12:12

Tgt Ion:	75	Resp:	112
Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.0	123.0#
157	0.0	53.7	161.1#





#93

1,2,4-Trichlorobenzene

Concen: 1.140 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

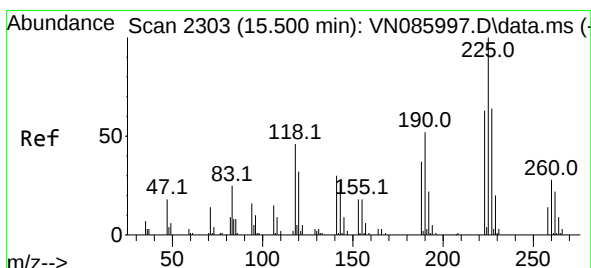
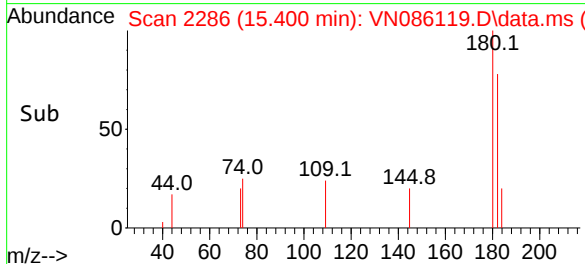
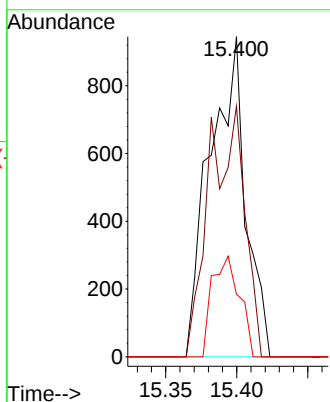
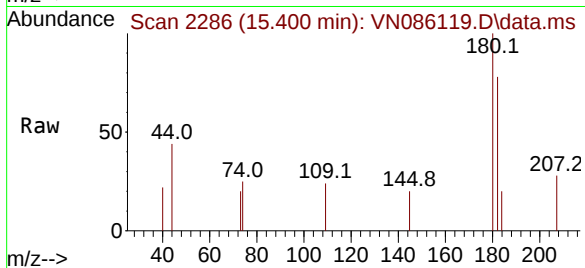
Tgt Ion:180 Resp: 1644

Ion Ratio Lower Upper

180 100

182 78.0 47.0 141.0

145 24.2 15.5 46.5



#94

Hexachlorobutadiene

Concen: 1.651 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

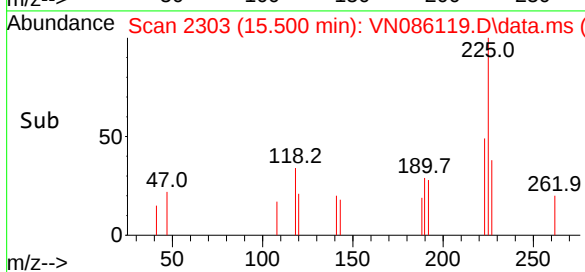
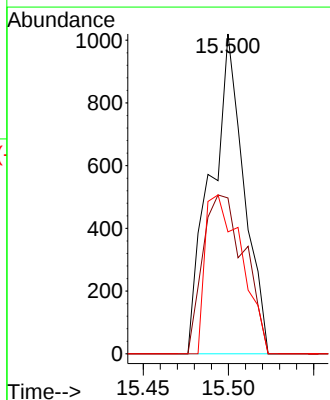
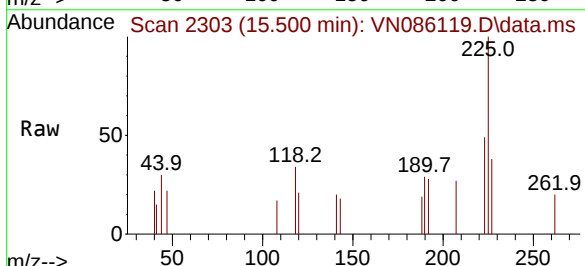
Tgt Ion:225 Resp: 1381

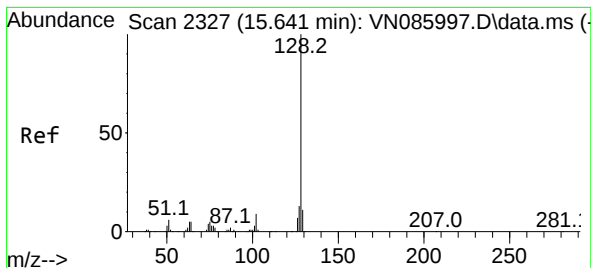
Ion Ratio Lower Upper

225 100

223 62.8 31.3 93.9

227 54.7 32.1 96.3





#95

Naphthalene

Concen: 1.503 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

VN0326MBL01

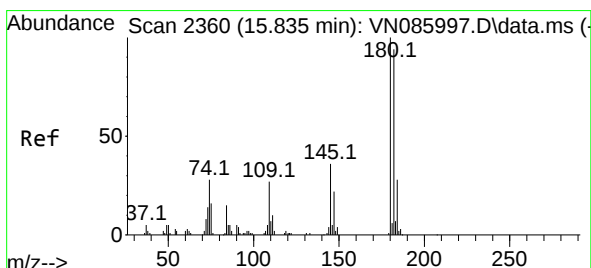
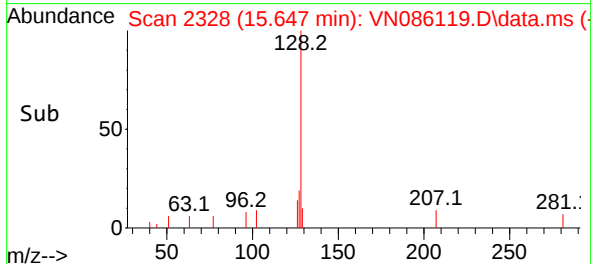
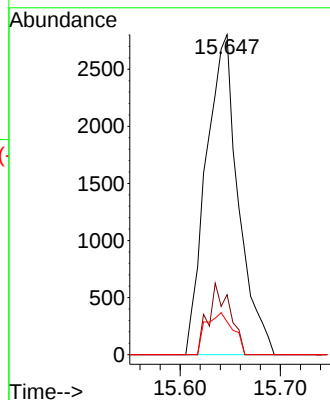
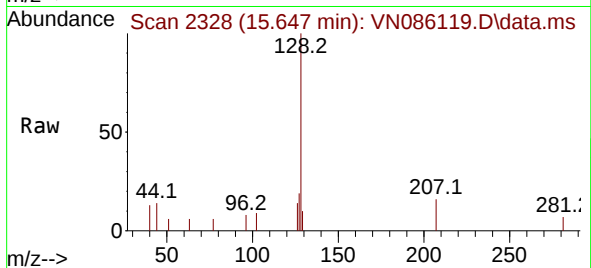
Tgt Ion:128 Resp: 6273

Ion Ratio Lower Upper

128 100

127 15.0 10.2 15.4

129 11.0 9.0 13.6



#96

1,2,3-Trichlorobenzene

Concen: 1.233 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN086119.D

Acq: 26 Mar 2025 12:12

Tgt Ion:180 Resp: 1686

Ion Ratio Lower Upper

180 100

182 85.5 47.5 142.5

145 33.3 17.7 53.1

