

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088403.D
 Acq On : 02 Dec 2025 12:35
 Operator : JC\MD
 Sample : Q3738-01 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4

Quant Time: Dec 03 01:27:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

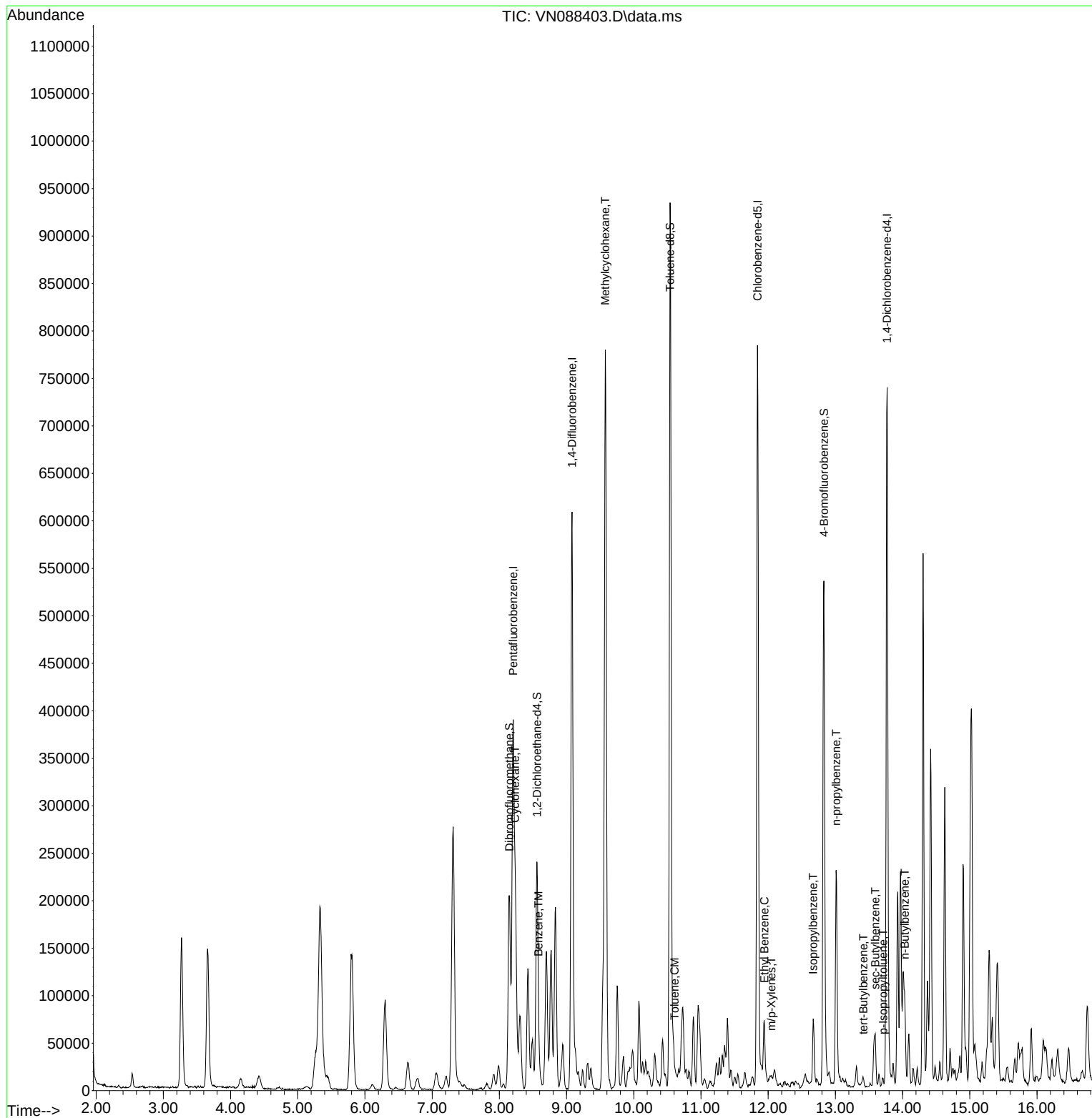
Internal Standards						
1) Pentafluorobenzene	8.206	168	183621	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	418628	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	407692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	190700	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	195104	56.404	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.800%		
35) Dibromofluoromethane	8.147	113	147599	50.877	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.760%		
50) Toluene-d8	10.541	98	546500	50.629	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 101.260%		
62) 4-Bromofluorobenzene	12.829	95	197439	53.309	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 106.620%		
Target Compounds						
					Qvalue	
31) Cyclohexane	8.236	56	116837	25.683	ug/l #	93
39) Methylcyclohexane	9.577	83	305623	63.817	ug/l	95
40) Benzene	8.583	78	18238	1.388	ug/l	93
52) Toluene	10.606	92	3039	0.401	ug/l	98
67) Ethyl Benzene	11.947	91	28233	1.764	ug/l #	89
68) m/p-Xylenes	12.047	106	3559	0.600	ug/l	74
73) Isopropylbenzene	12.671	105	46759	3.316	ug/l	99
78) n-propylbenzene	13.012	91	195714	11.346	ug/l	98
83) tert-Butylbenzene	13.418	119	4118	0.415	ug/l	75
85) sec-Butylbenzene	13.594	105	32868	2.304	ug/l #	73
86) p-Isopropyltoluene	13.712	119	4768	0.408	ug/l	98
89) n-Butylbenzene	14.035	91	51730	4.554	ug/l #	81

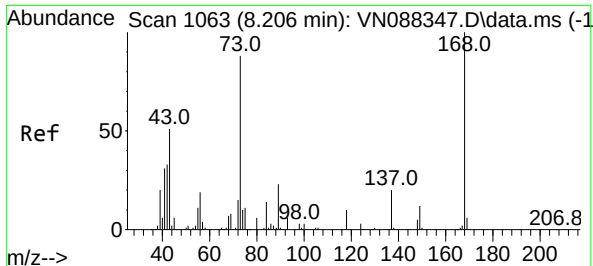
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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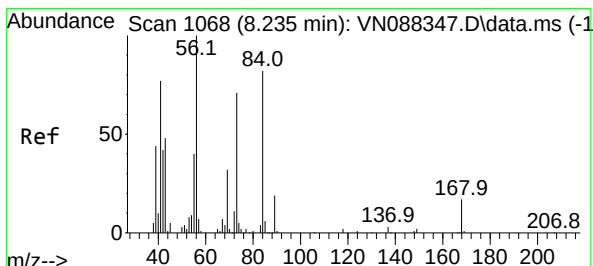
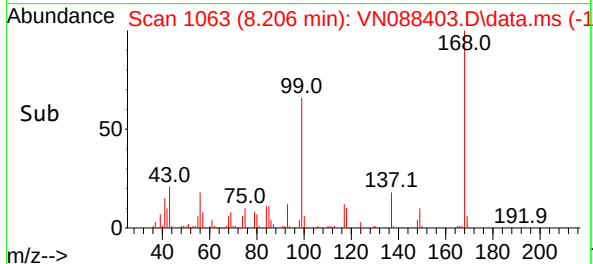
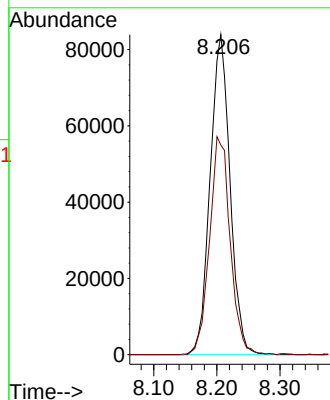
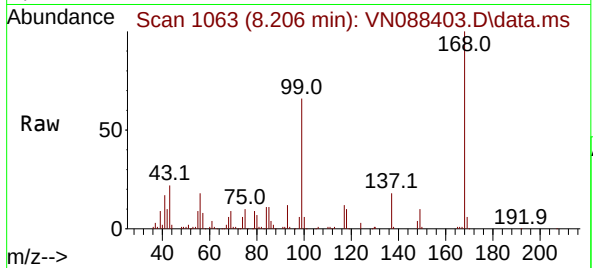




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

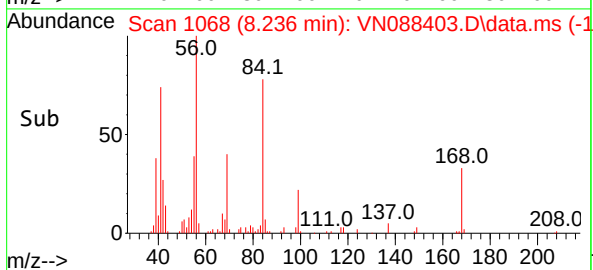
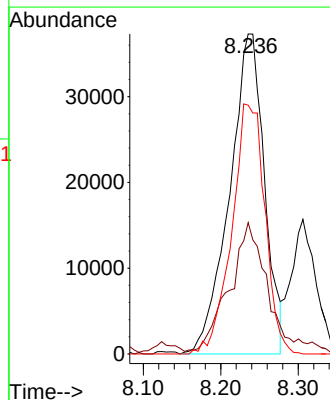
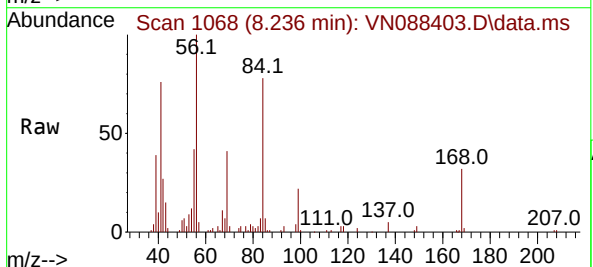
Instrument :
MSVOA_N
ClientSampleId :
MW4

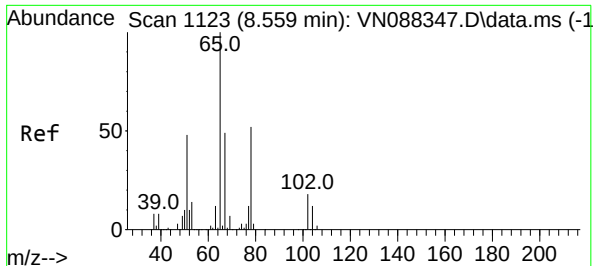
Tgt Ion:168 Resp: 183621
Ion Ratio Lower Upper
168 100
99 65.5 57.1 85.7



#31
Cyclohexane
Concen: 25.683 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 56 Resp: 116837
Ion Ratio Lower Upper
56 100
69 39.3 25.3 37.9#
84 77.7 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 56.404 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

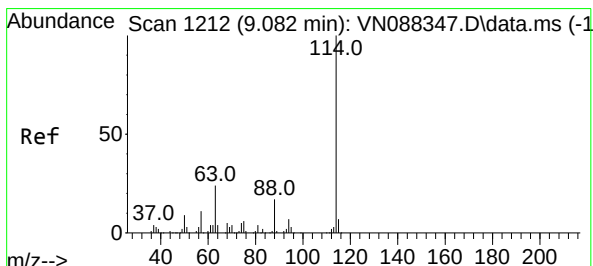
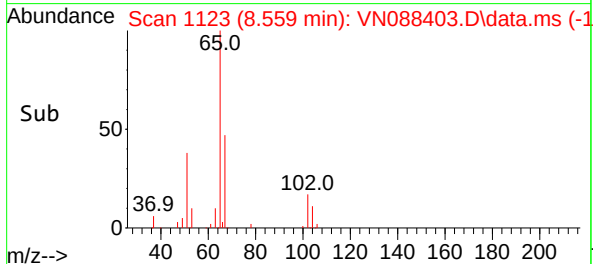
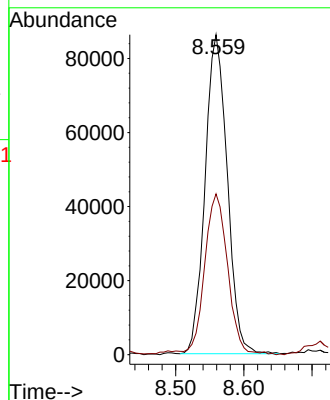
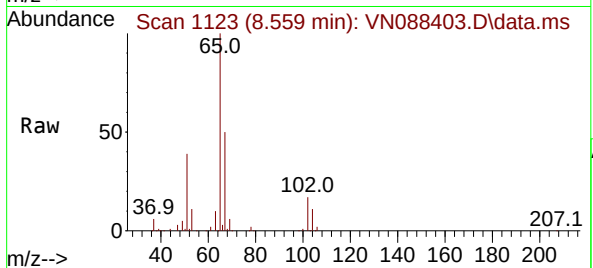
MW4

Tgt Ion: 65 Resp: 195104

Ion Ratio Lower Upper

65 100

67 52.1 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

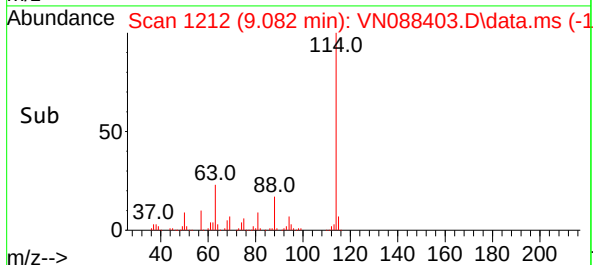
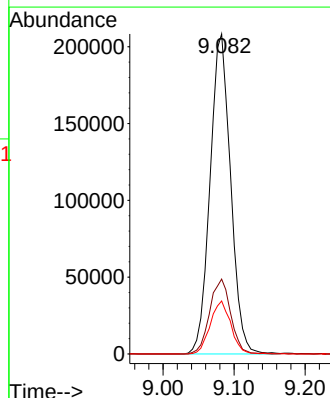
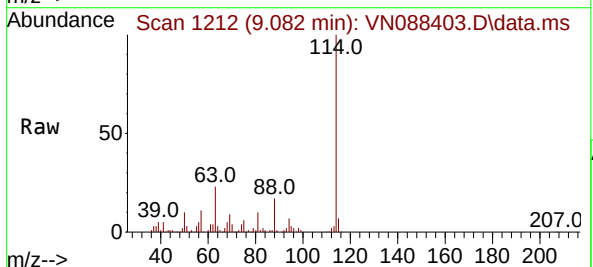
Tgt Ion: 114 Resp: 418628

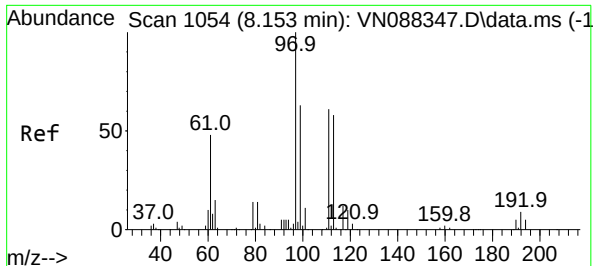
Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.0

88 16.6 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.877 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

MW4

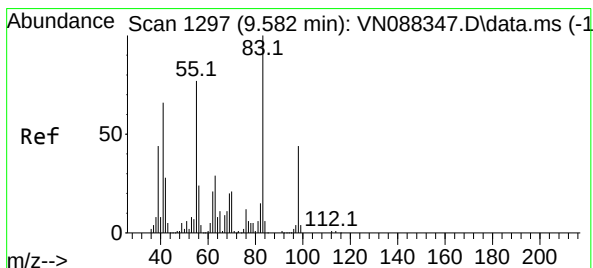
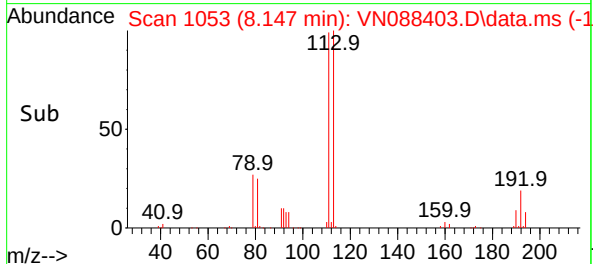
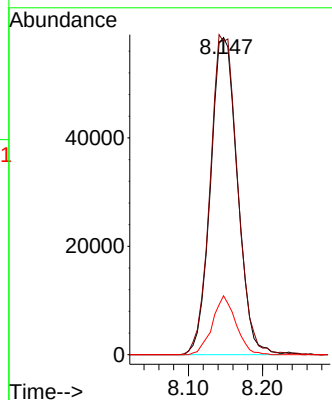
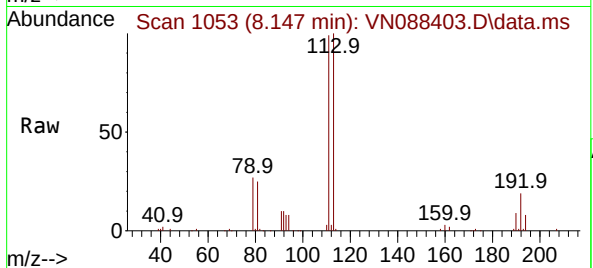
Tgt Ion:113 Resp: 147599

Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 16.2 12.8 19.2



#39

Methylcyclohexane

Concen: 63.817 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

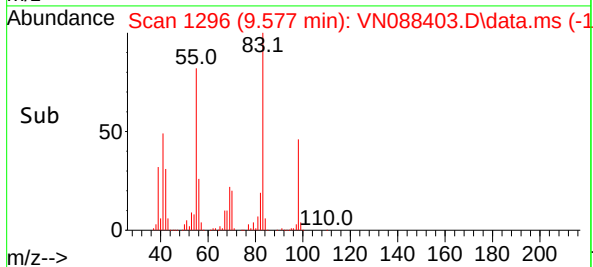
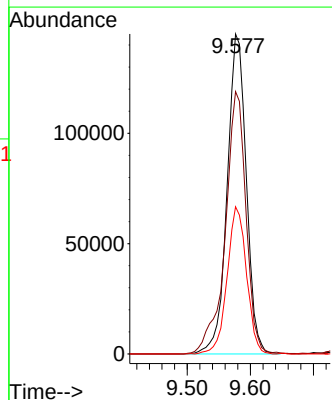
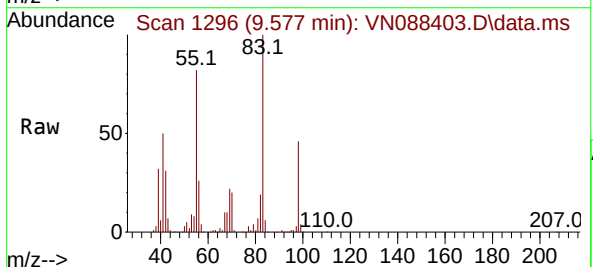
Tgt Ion: 83 Resp: 305623

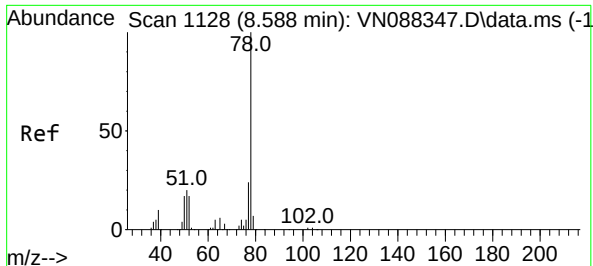
Ion Ratio Lower Upper

83 100

55 82.0 61.6 92.4

98 46.0 35.3 52.9

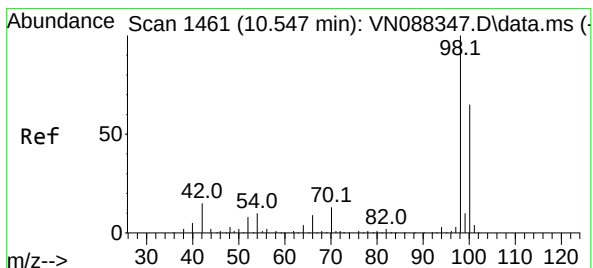
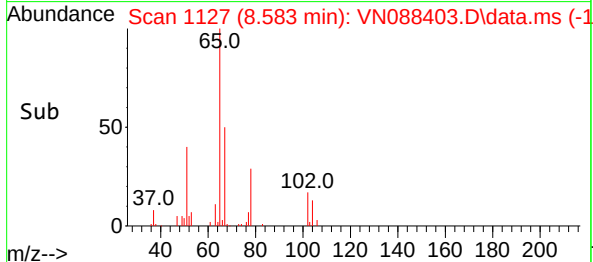
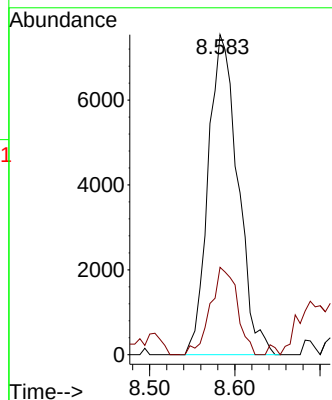
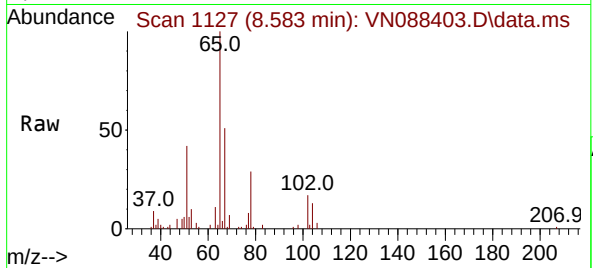




#40
Benzene
Concen: 1.388 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

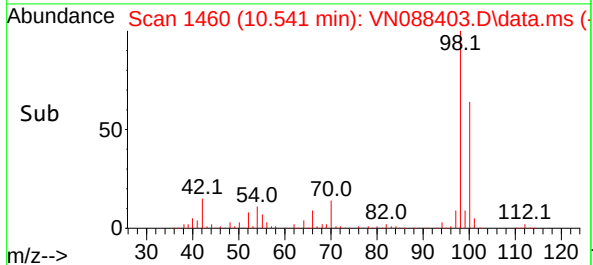
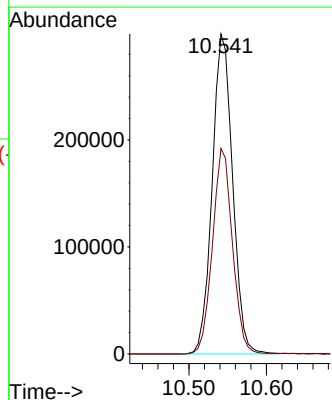
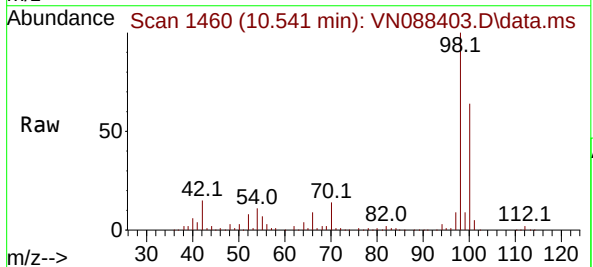
Instrument :
MSVOA_N
ClientSampleId :
MW4

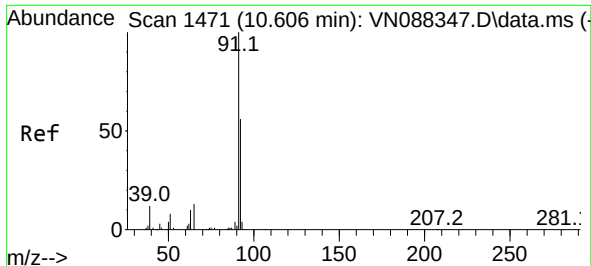
Tgt Ion: 78 Resp: 18238
Ion Ratio Lower Upper
78 100
77 27.3 19.0 28.4



#50
Toluene-d8
Concen: 50.629 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 98 Resp: 546500
Ion Ratio Lower Upper
98 100
100 63.0 52.2 78.2

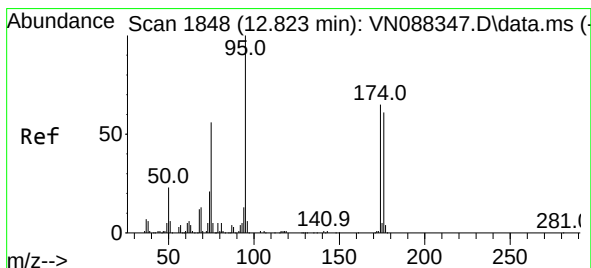
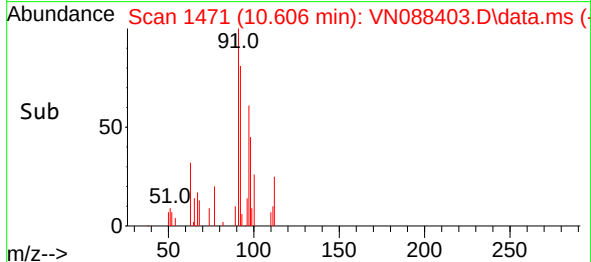
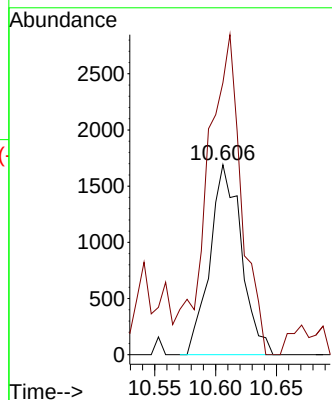
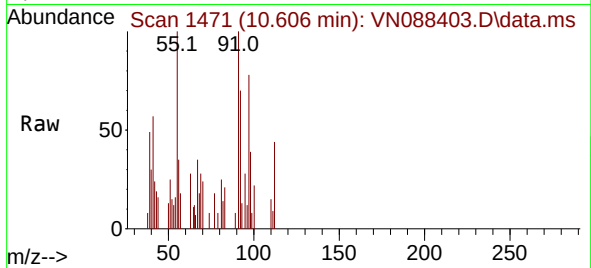




#52
Toluene
Concen: 0.401 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

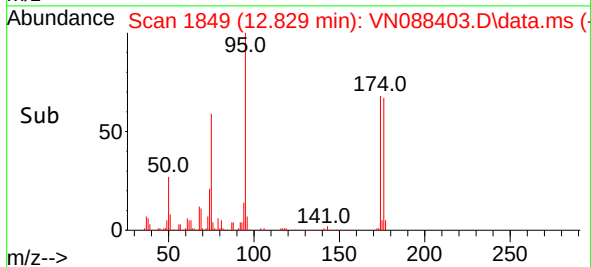
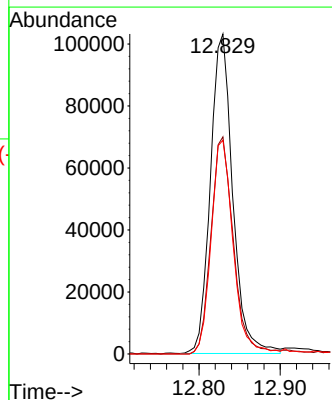
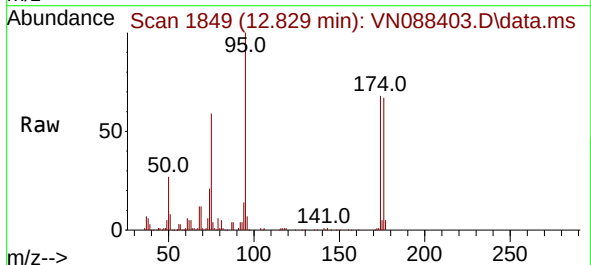
Instrument :
MSVOA_N
ClientSampleId :
MW4

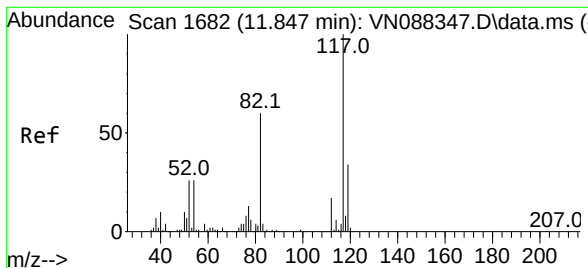
Tgt Ion: 92 Resp: 3039
Ion Ratio Lower Upper
92 100
91 178.6 140.2 210.2



#62
4-Bromofluorobenzene
Concen: 53.309 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 95 Resp: 197439
Ion Ratio Lower Upper
95 100
174 67.8 0.0 139.0
176 65.9 0.0 132.4

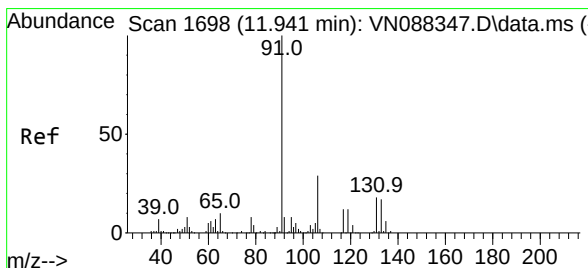
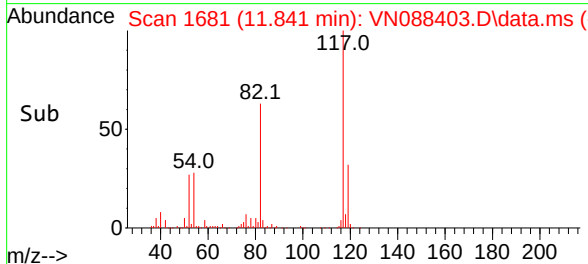
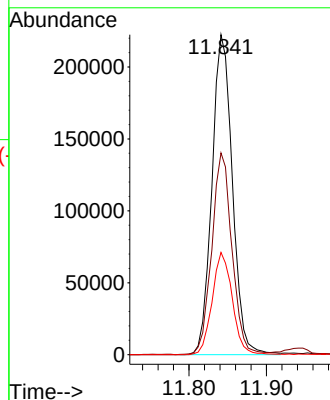
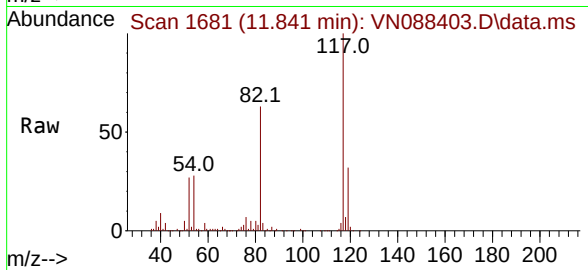




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

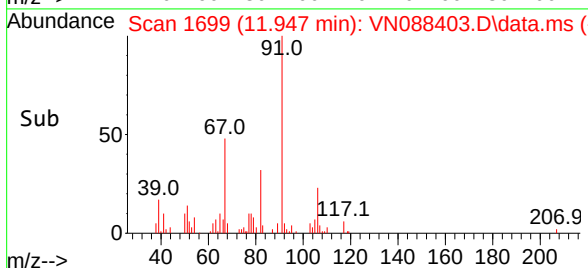
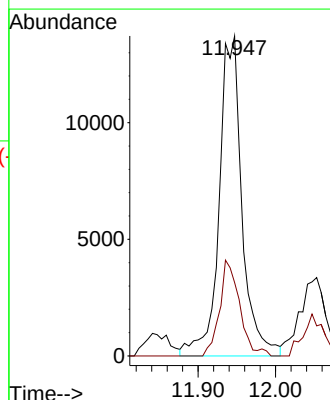
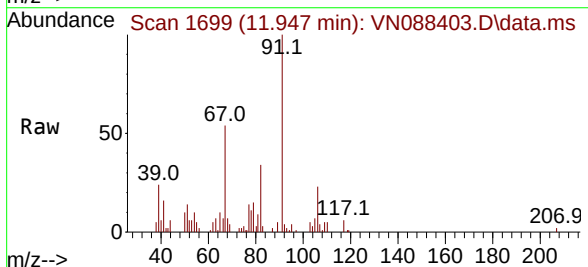
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ClientSampleId :
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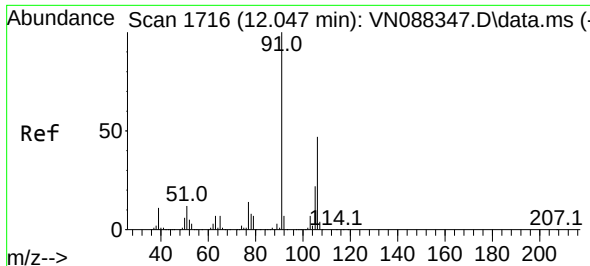
Tgt Ion:117 Resp: 407692
Ion Ratio Lower Upper
117 100
82 63.0 47.8 71.8
119 32.0 26.9 40.3



#67
Ethyl Benzene
Concen: 1.764 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 91 Resp: 28233
Ion Ratio Lower Upper
91 100
106 23.4 23.6 35.4#

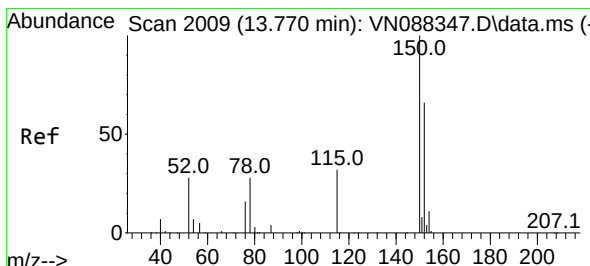
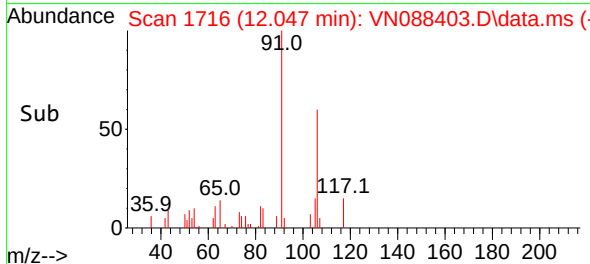
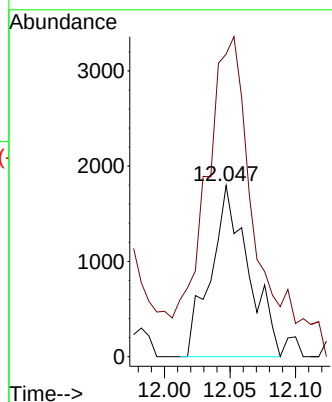
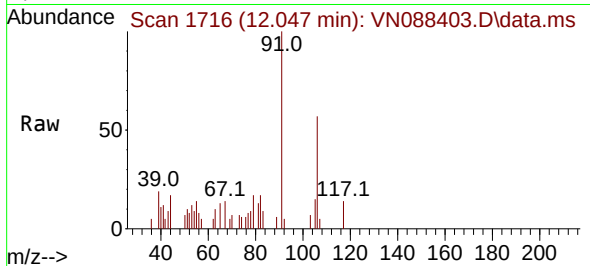




#68
m/p-Xylenes
Concen: 0.600 ug/l
RT: 12.047 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

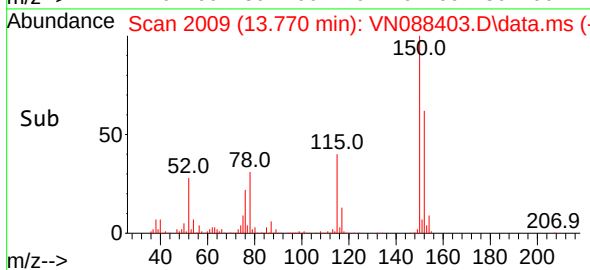
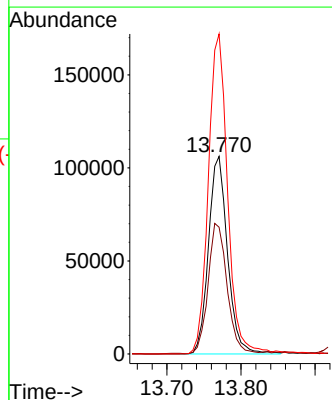
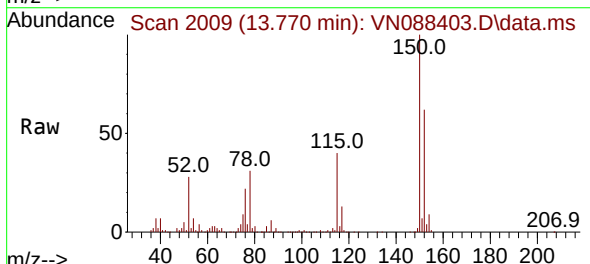
Instrument :
MSVOA_N
ClientSampleId :
MW4

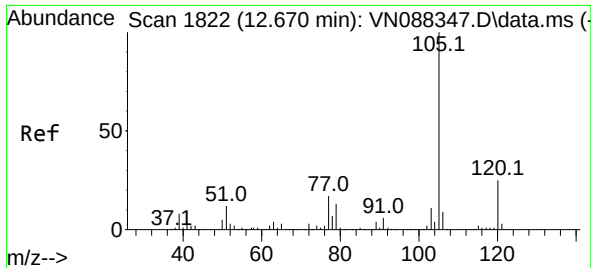
Tgt Ion:106 Resp: 3559
Ion Ratio Lower Upper
106 100
91 250.6 167.8 251.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion:152 Resp: 190700
Ion Ratio Lower Upper
152 100
115 65.3 33.0 98.9
150 163.7 0.0 349.0

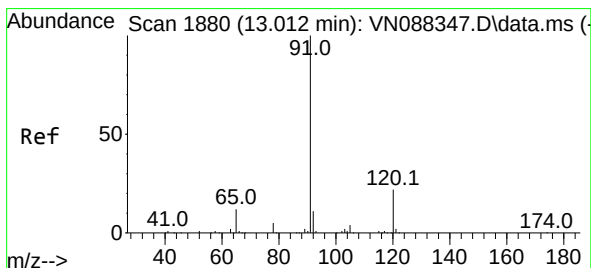
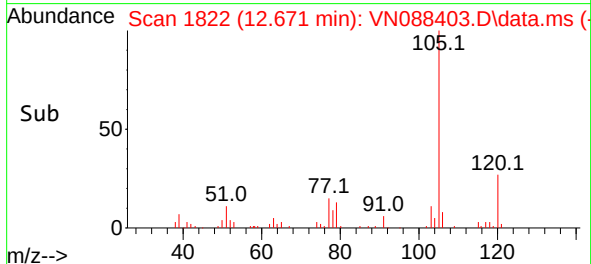
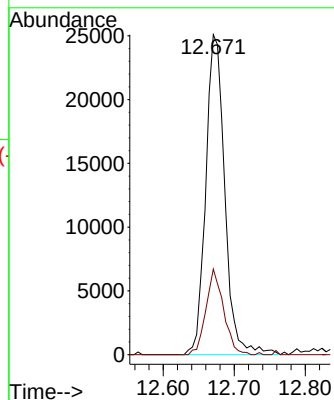
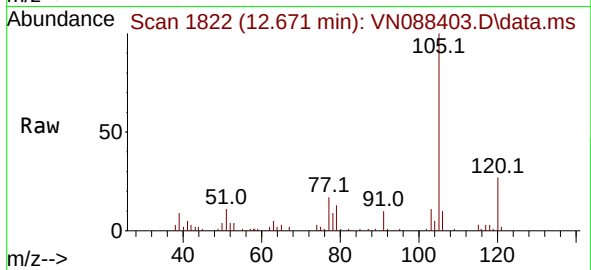




#73
Isopropylbenzene
Concen: 3.316 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

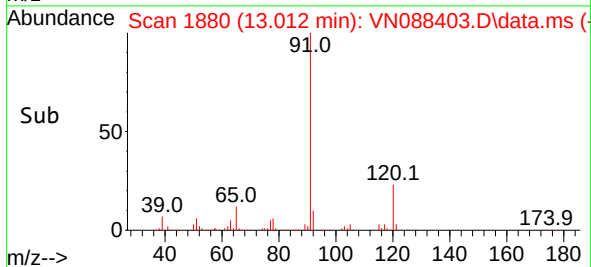
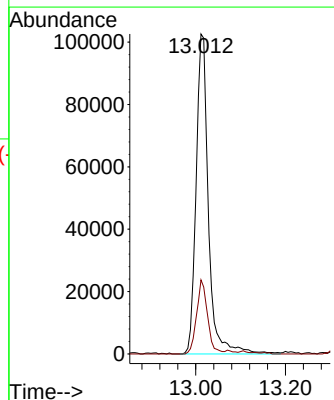
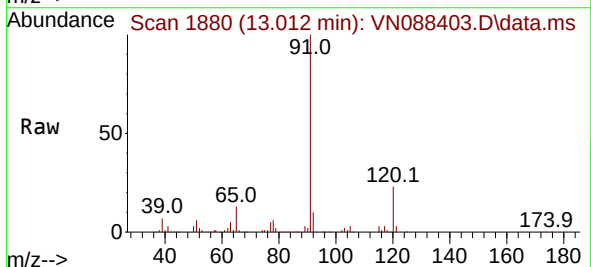
Instrument :
MSVOA_N
ClientSampleId :
MW4

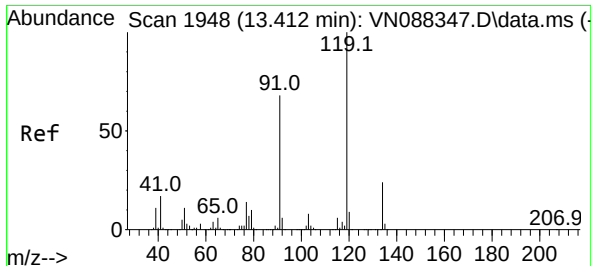
Tgt Ion:105 Resp: 46759
Ion Ratio Lower Upper
105 100
120 24.8 12.8 38.3



#78
n-propylbenzene
Concen: 11.346 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 91 Resp: 195714
Ion Ratio Lower Upper
91 100
120 20.5 10.9 32.6

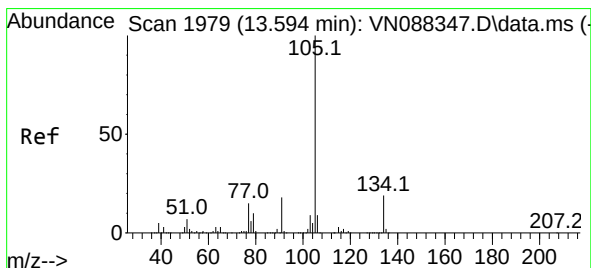
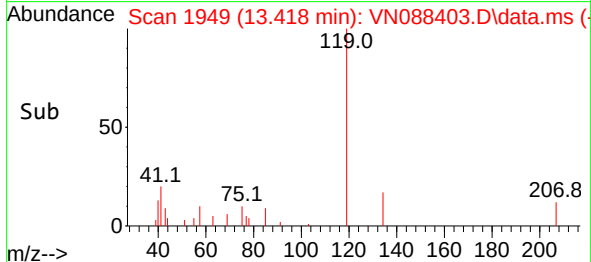
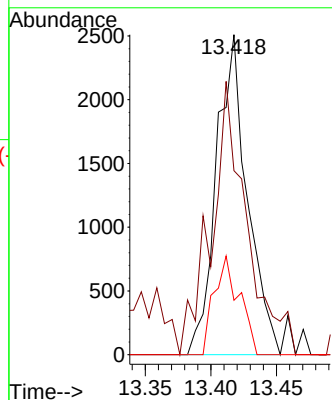
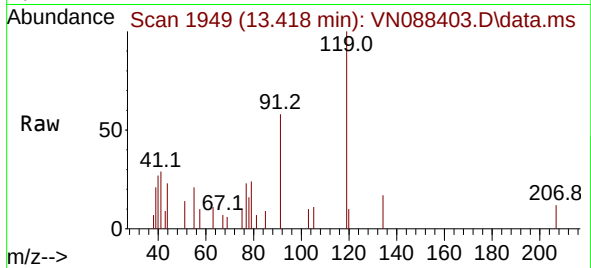




#83
tert-Butylbenzene
Concen: 0.415 ug/l
RT: 13.418 min Scan# 1948
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

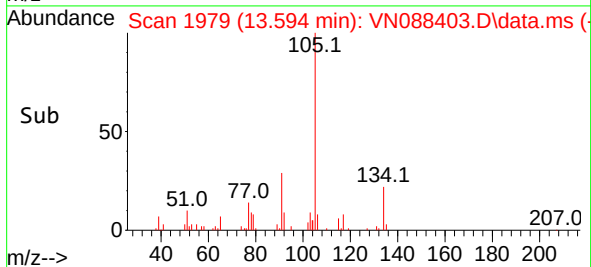
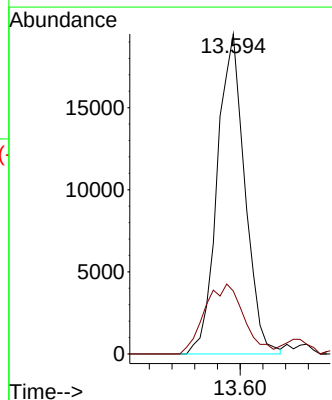
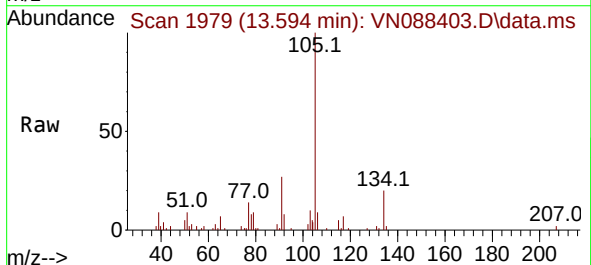
Instrument :
MSVOA_N
ClientSampleId :
MW4

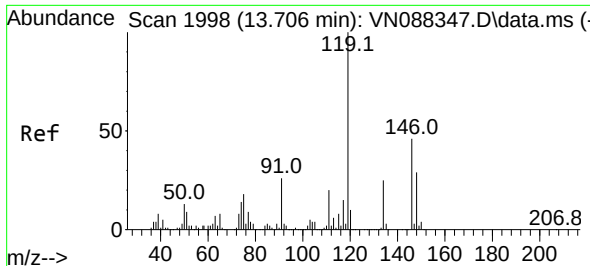
Tgt Ion:119 Resp: 4118
Ion Ratio Lower Upper
119 100
91 98.0 35.1 105.3
134 25.1 12.8 38.4



#85
sec-Butylbenzene
Concen: 2.304 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion:105 Resp: 32868
Ion Ratio Lower Upper
105 100
134 31.1 9.5 28.5#

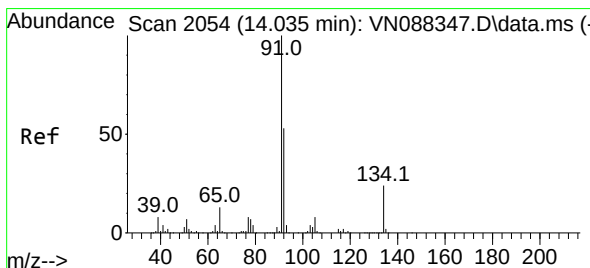
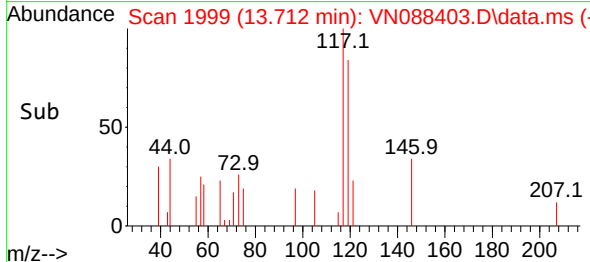
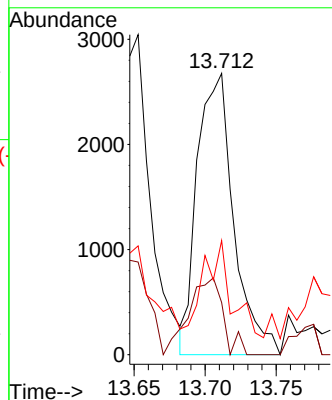
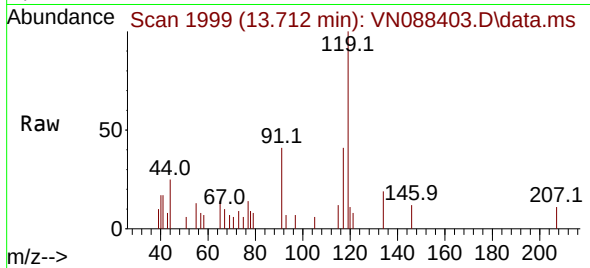




#86
p-Isopropyltoluene
Concen: 0.408 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Instrument :
MSVOA_N
ClientSampleId :
MW4

Tgt Ion:119 Resp: 4768
Ion Ratio Lower Upper
119 100
134 25.9 12.2 36.6
91 26.3 13.0 39.0



#89
n-Butylbenzene
Concen: 4.554 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 91 Resp: 51730
Ion Ratio Lower Upper
91 100
92 48.0 26.1 78.3
134 0.0 11.7 35.1#

