

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088506.D
 Acq On : 10 Dec 2025 17:13
 Operator : JC\MD
 Sample : Q3815-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE

Quant Time: Dec 11 02:12:09 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	209410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	498044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	530030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	264391	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	239068	60.602	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	121.200%
35) Dibromofluoromethane	8.147	113	167328	48.481	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.960%
50) Toluene-d8	10.547	98	609976	47.499	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.000%
62) 4-Bromofluorobenzene	12.829	95	241666	54.845	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.700%

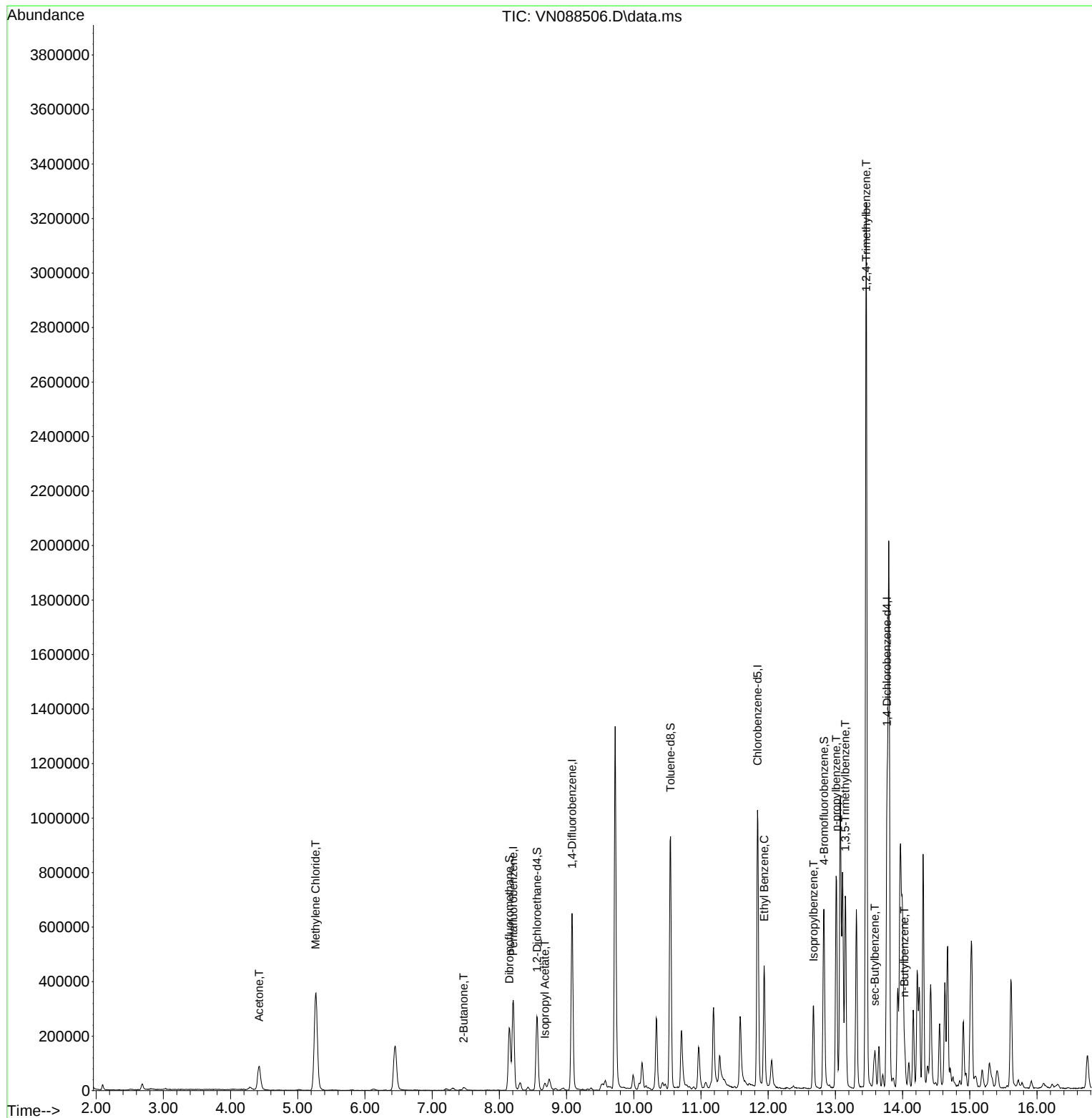
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.424	43	182931	128.222	ug/l	98
20) Methylene Chloride	5.265	84	271269	88.871	ug/l	98
25) 2-Butanone	7.471	43	19409	8.462	ug/l #	83
43) Isopropyl Acetate	8.677	43	28222	2.637	ug/l #	91
67) Ethyl Benzene	11.941	91	311343	14.962	ug/l	96
73) Isopropylbenzene	12.676	105	193813	9.914	ug/l	99
78) n-propylbenzene	13.012	91	622575	26.032	ug/l	97
80) 1,3,5-Trimethylbenzene	13.147	105	388876	24.006	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	1779205	110.503	ug/l	99
85) sec-Butylbenzene	13.588	105	71798	3.629	ug/l #	71
89) n-Butylbenzene	14.029	91	57174	3.630	ug/l #	77

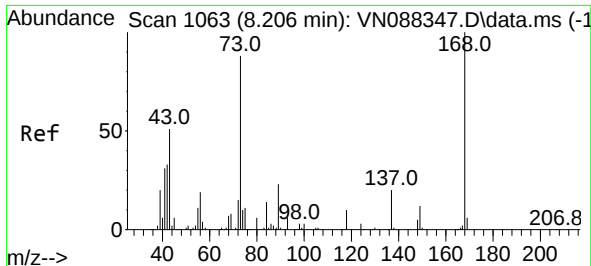
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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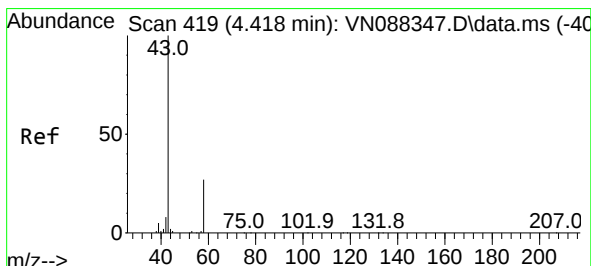
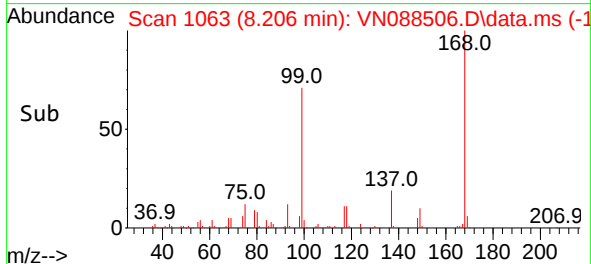
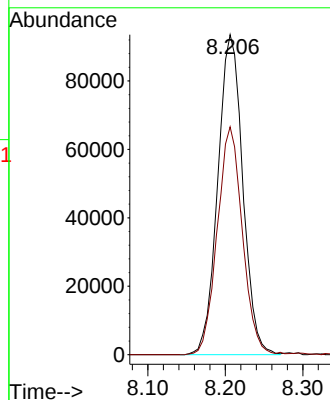
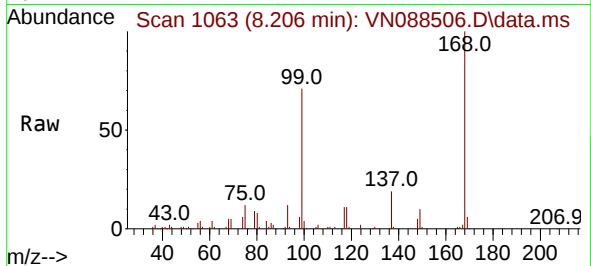




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

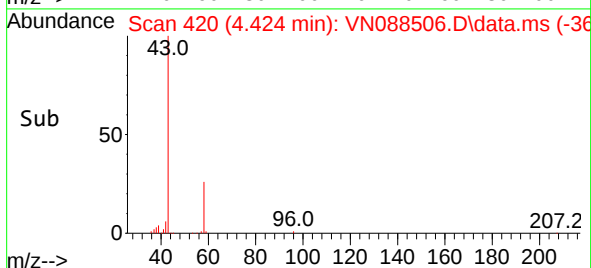
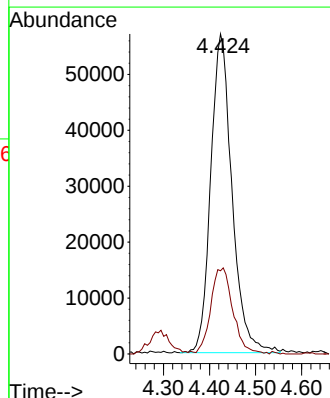
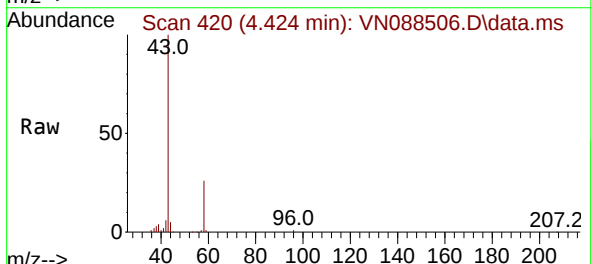
Instrument :
MSVOA_N
ClientSampleId :
RE

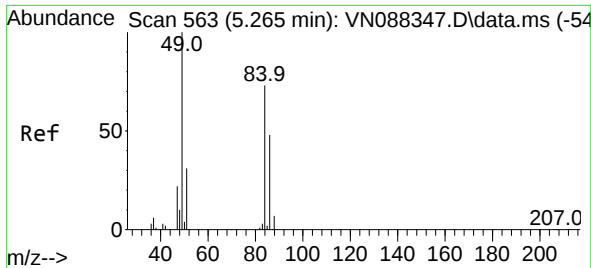
Tgt Ion:168 Resp: 209410
Ion Ratio Lower Upper
168 100
99 71.2 57.1 85.7



#16
Acetone
Concen: 128.222 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

Tgt Ion: 43 Resp: 182931
Ion Ratio Lower Upper
43 100
58 26.1 21.7 32.5

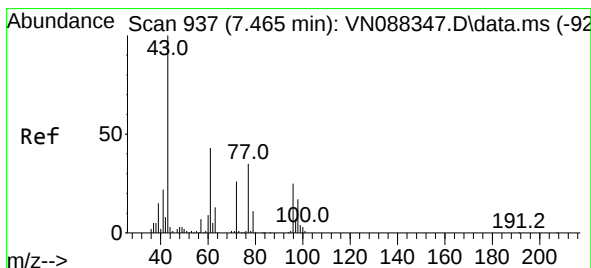
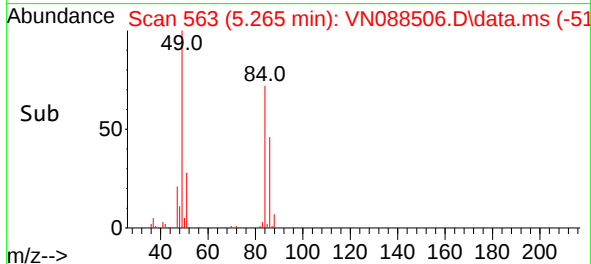
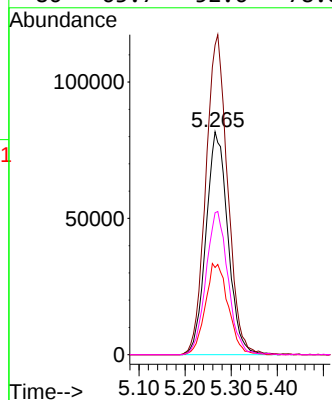
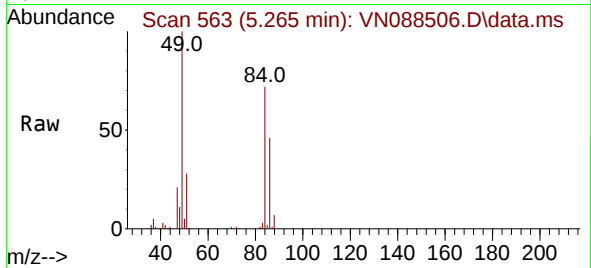




#20
Methylene Chloride
Concen: 88.871 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

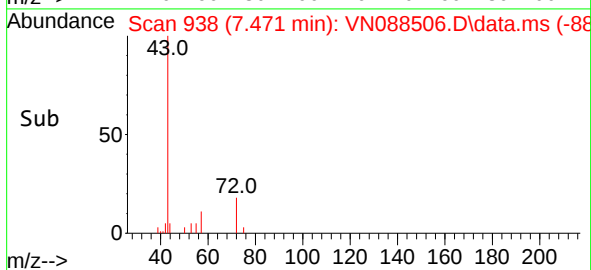
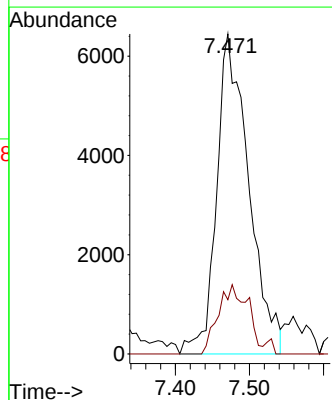
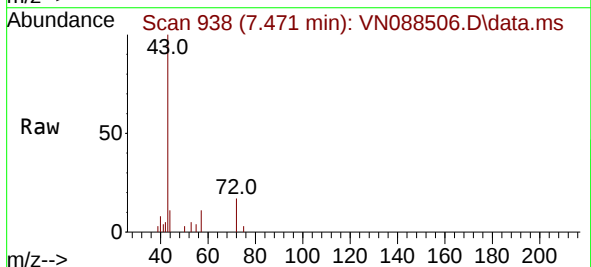
Instrument :
MSVOA_N
ClientSampleId :
RE

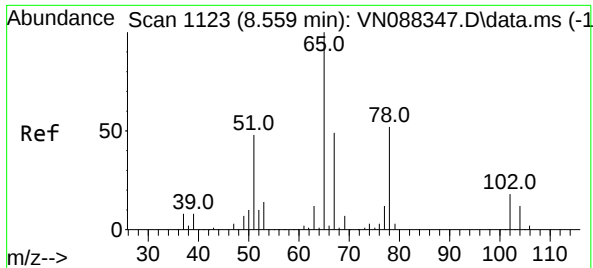
Tgt Ion: 84 Resp: 271269
Ion Ratio Lower Upper
84 100
49 139.0 110.2 165.2
51 39.1 34.1 51.1
86 63.7 52.6 78.8



#25
2-Butanone
Concen: 8.462 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

Tgt Ion: 43 Resp: 19409
Ion Ratio Lower Upper
43 100
72 16.9 20.5 30.7#

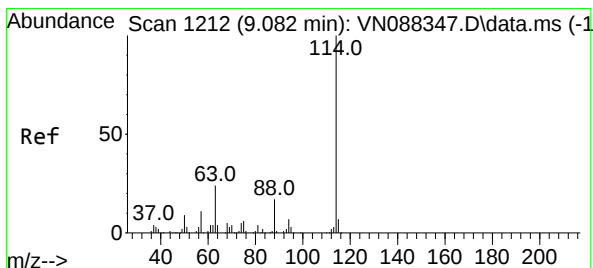
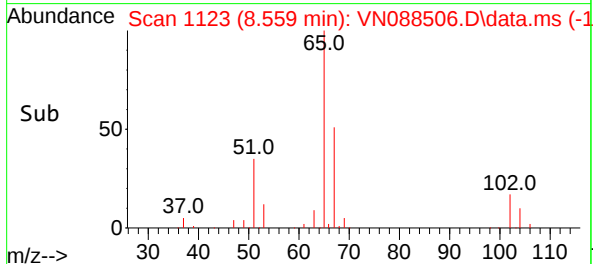
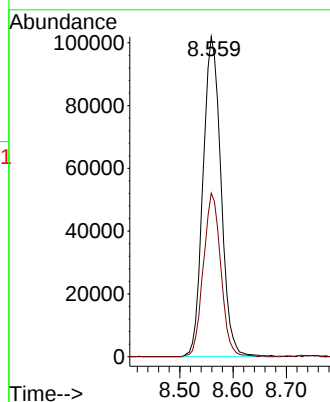
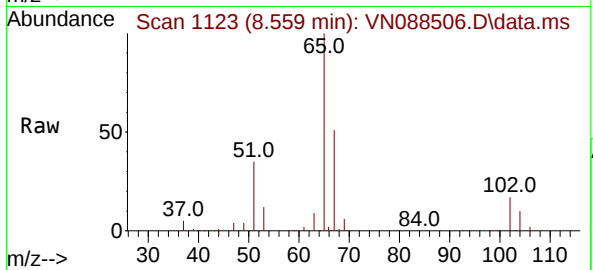




#33
1,2-Dichloroethane-d4
Concen: 60.602 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

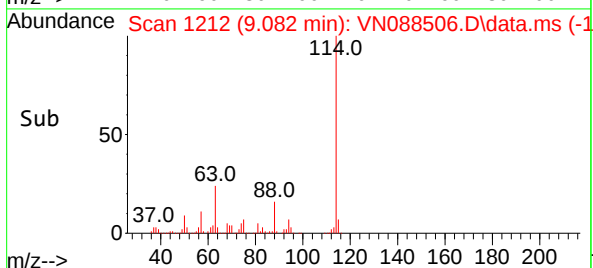
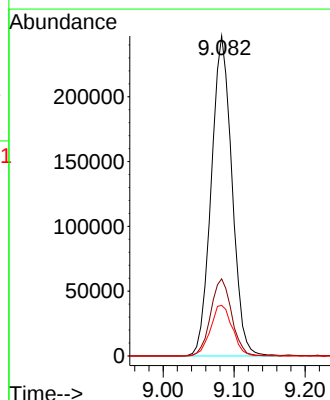
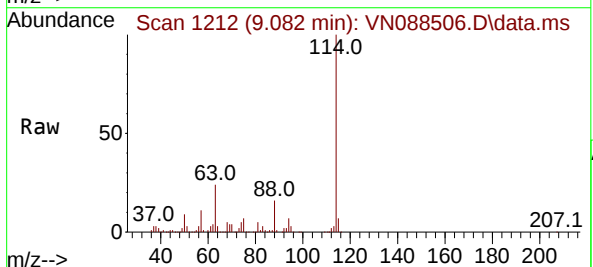
Instrument :
MSVOA_N
ClientSampleId :
RE

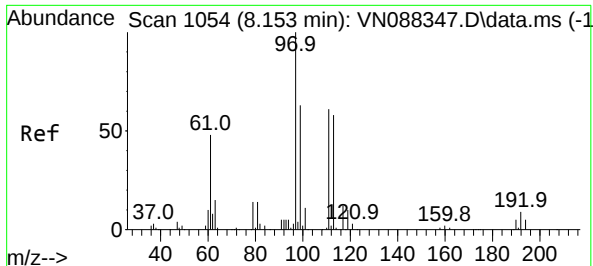
Tgt Ion: 65 Resp: 239068
Ion Ratio Lower Upper
65 100
67 49.6 0.0 100.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

Tgt Ion: 114 Resp: 498044
Ion Ratio Lower Upper
114 100
63 24.1 0.0 49.0
88 15.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 48.481 ug/l

RT: 8.147 min Scan# 110

Delta R.T. -0.006 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

Instrument :

MSVOA_N

ClientSampleId :

RE

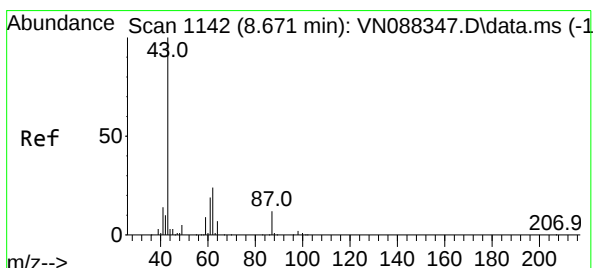
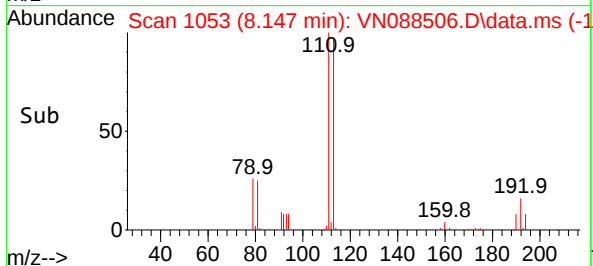
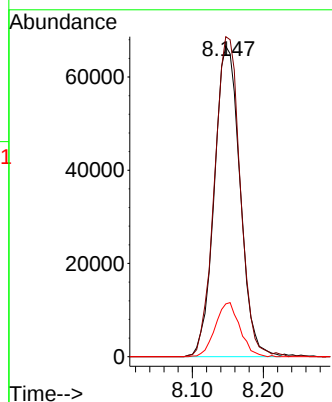
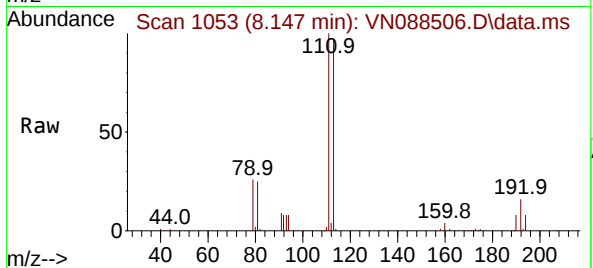
Tgt Ion:113 Resp: 167328

Ion Ratio Lower Upper

113 100

111 102.9 82.5 123.7

192 16.7 12.8 19.2



#43

Isopropyl Acetate

Concen: 2.637 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

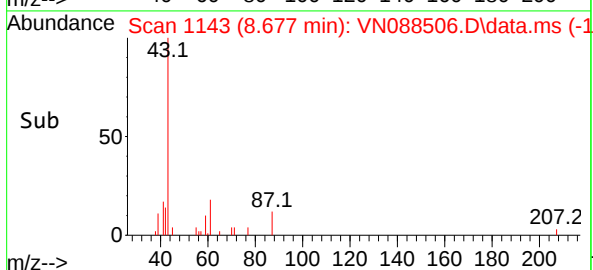
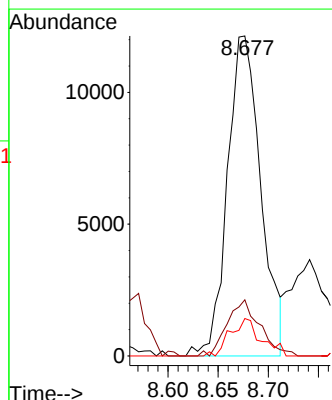
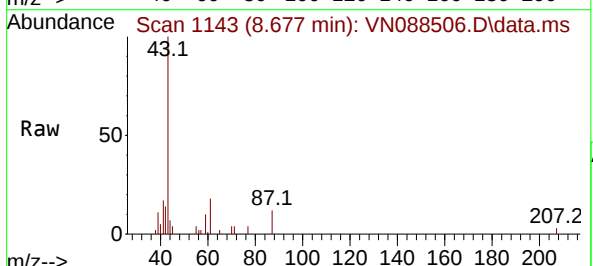
Tgt Ion: 43 Resp: 28222

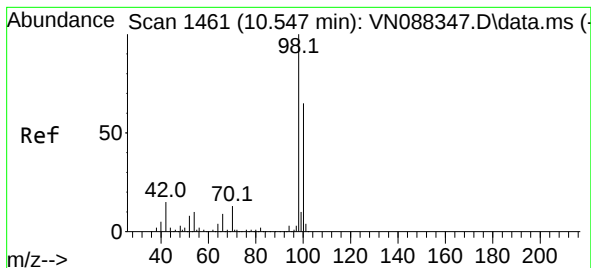
Ion Ratio Lower Upper

43 100

61 17.2 18.7 28.1#

87 10.7 9.1 13.7





#50

Toluene-d8

Concen: 47.499 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

Instrument :

MSVOA_N

ClientSampleId :

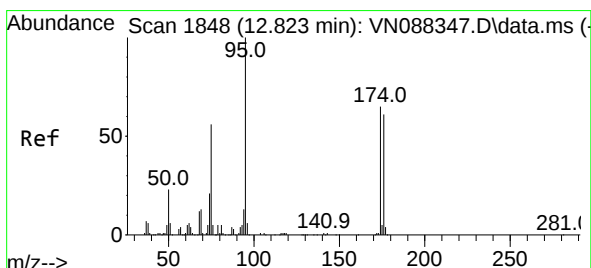
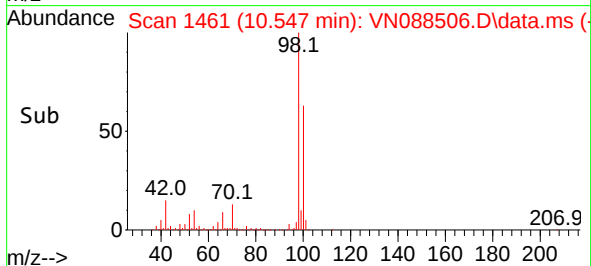
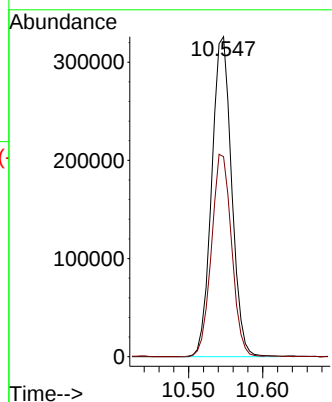
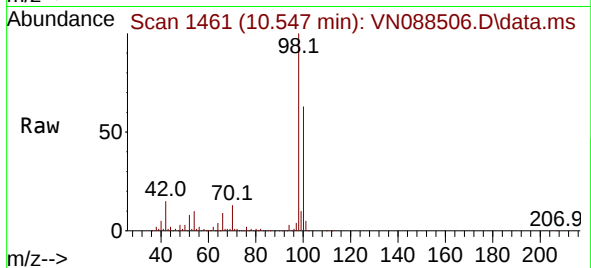
RE

Tgt Ion: 98 Resp: 609976

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 54.845 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

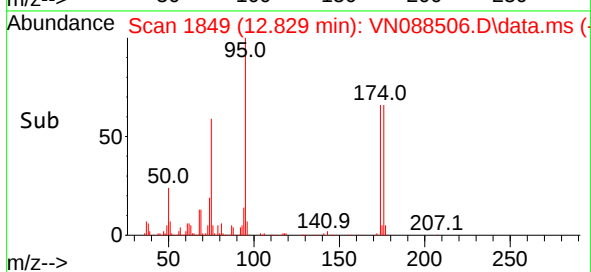
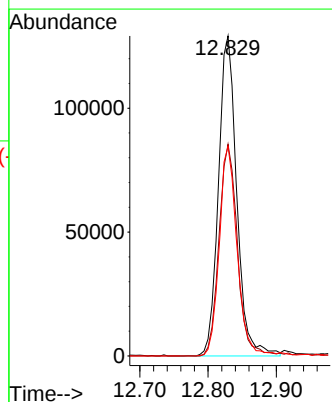
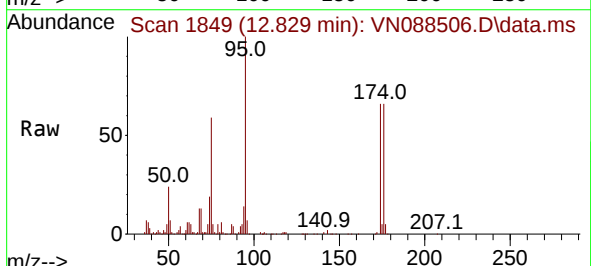
Tgt Ion: 95 Resp: 241666

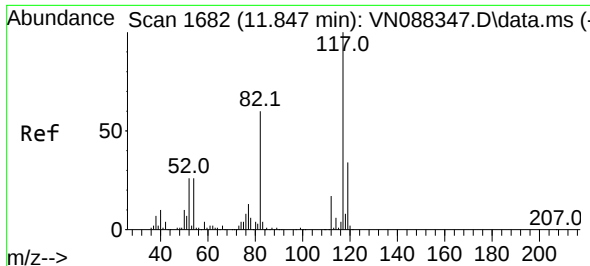
Ion Ratio Lower Upper

95 100

174 66.3 0.0 139.0

176 64.3 0.0 132.4

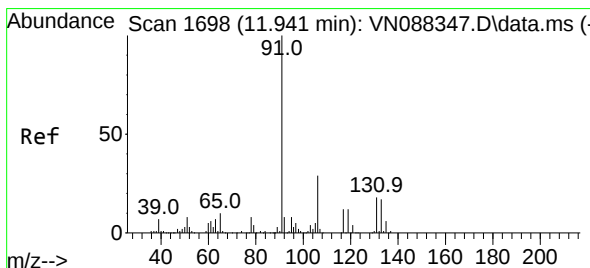
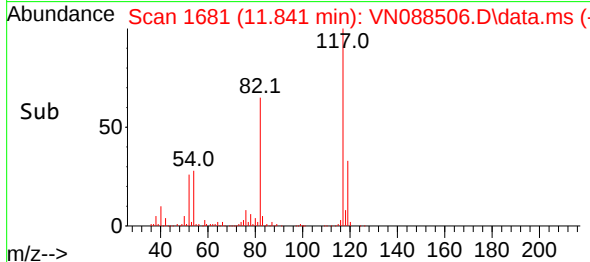
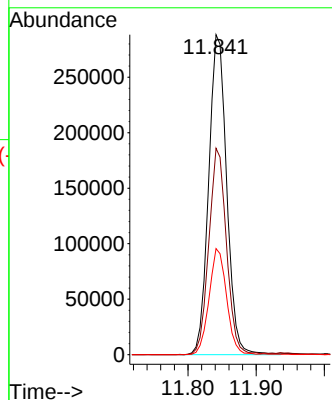
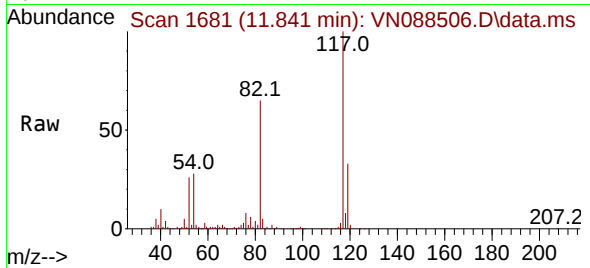




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

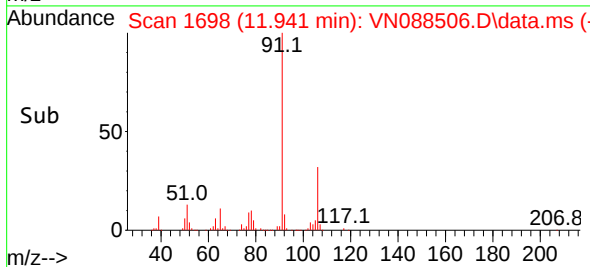
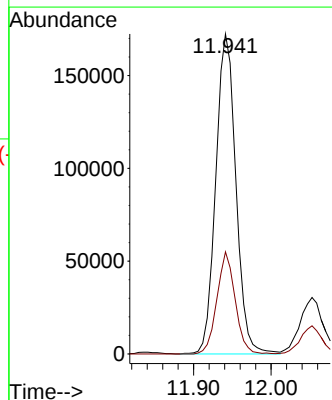
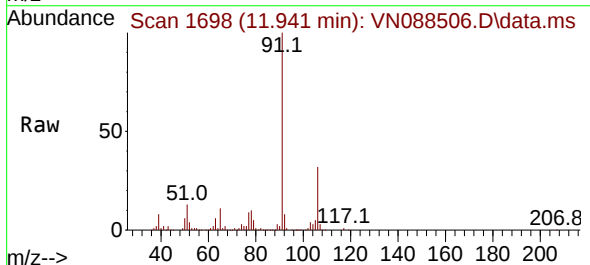
Instrument :
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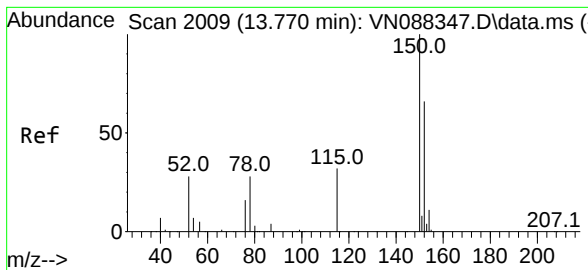
Tgt Ion:117 Resp: 530030
Ion Ratio Lower Upper
117 100
82 64.4 47.8 71.8
119 33.1 26.9 40.3



#67
Ethyl Benzene
Concen: 14.962 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

Tgt Ion: 91 Resp: 311343
Ion Ratio Lower Upper
91 100
106 31.9 23.6 35.4

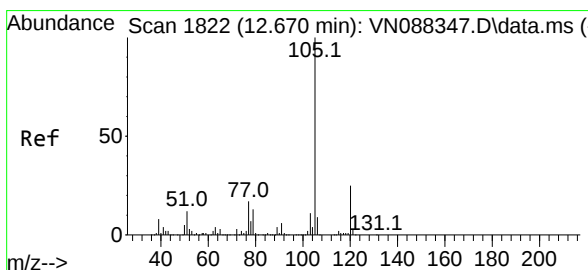
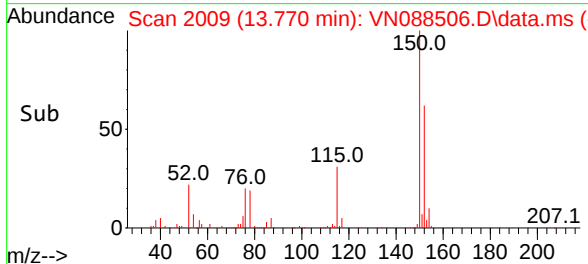
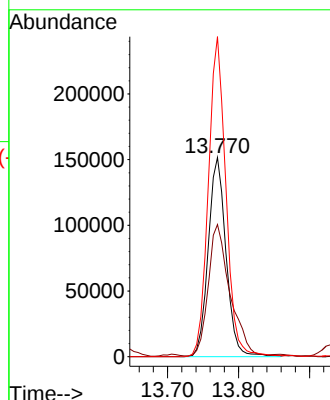
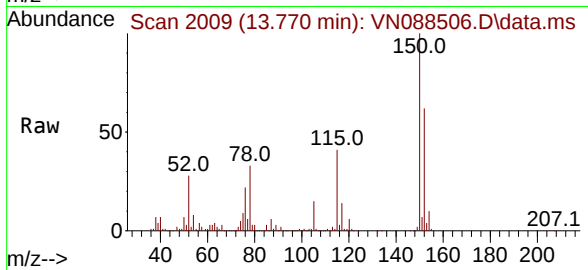




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

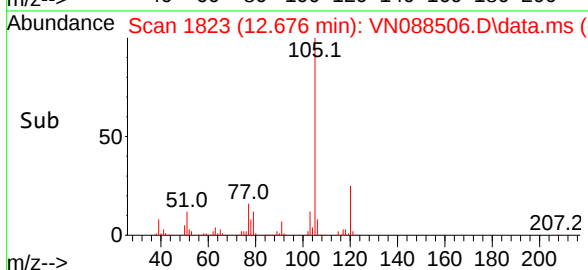
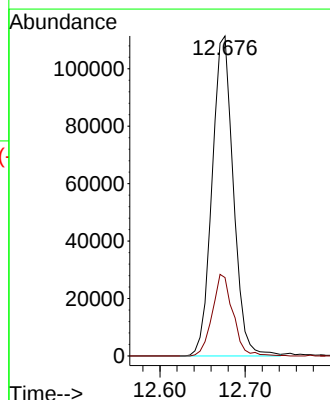
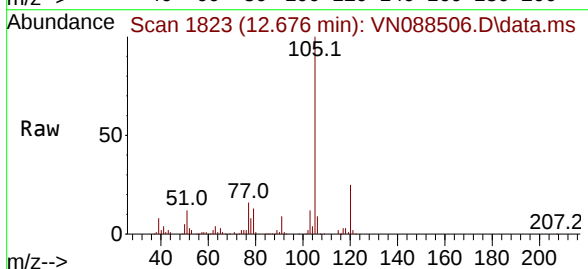
Instrument :
MSVOA_N
ClientSampleId :
RE

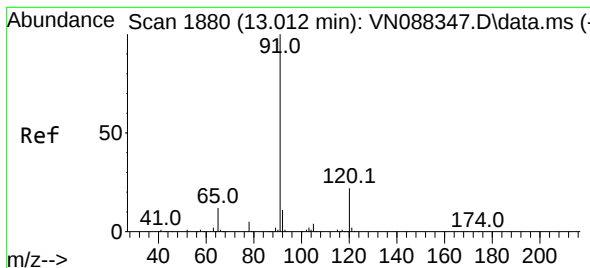
Tgt Ion:152 Resp: 264391
Ion Ratio Lower Upper
152 100
115 80.2 33.0 98.9
150 158.1 0.0 349.0



#73
Isopropylbenzene
Concen: 9.914 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088506.D
Acq: 10 Dec 2025 17:13

Tgt Ion:105 Resp: 193813
Ion Ratio Lower Upper
105 100
120 24.8 12.8 38.3





#78

n-propylbenzene

Concen: 26.032 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

Instrument :

MSVOA_N

ClientSampleId :

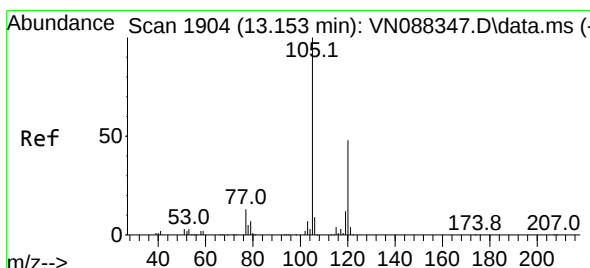
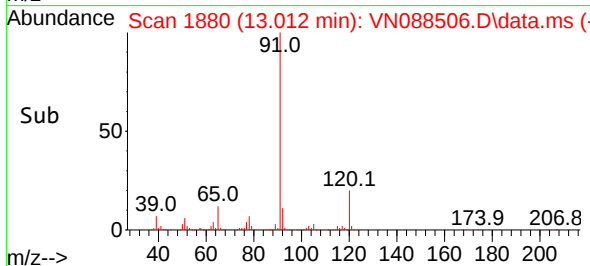
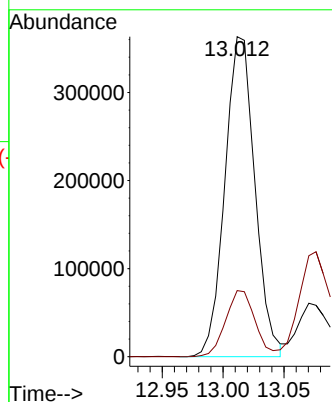
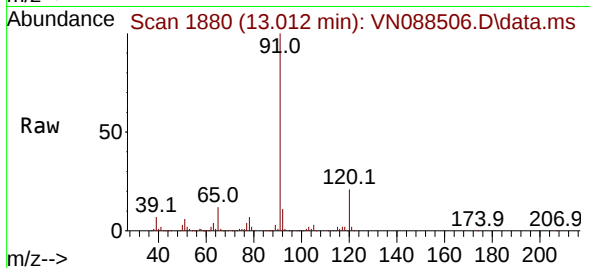
RE

Tgt Ion: 91 Resp: 622575

Ion Ratio Lower Upper

91 100

120 20.1 10.9 32.6



#80

1,3,5-Trimethylbenzene

Concen: 24.006 ug/l

RT: 13.147 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VN088506.D

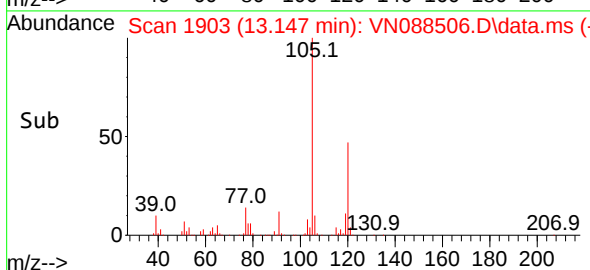
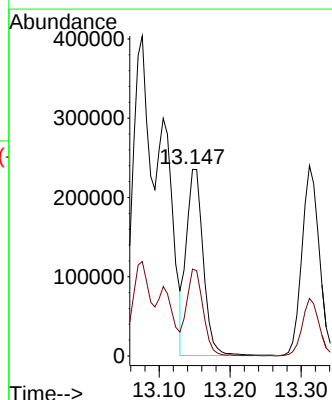
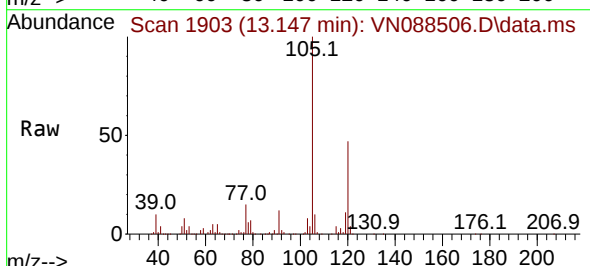
Acq: 10 Dec 2025 17:13

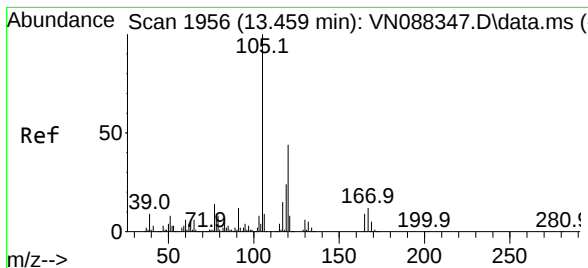
Tgt Ion:105 Resp: 388876

Ion Ratio Lower Upper

105 100

120 45.8 23.8 71.5





#84

1,2,4-Trimethylbenzene

Concen: 110.503 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088506.D

Acq: 10 Dec 2025 17:13

Instrument :

MSVOA_N

ClientSampleId :

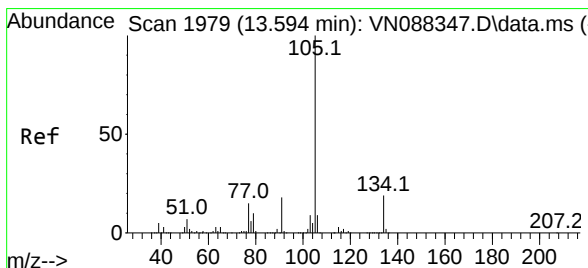
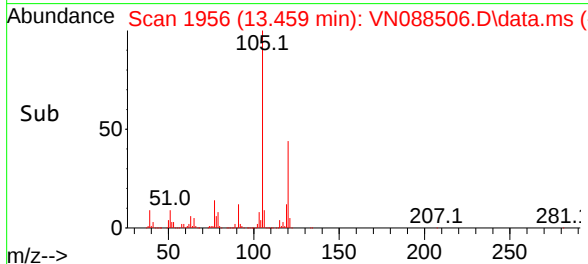
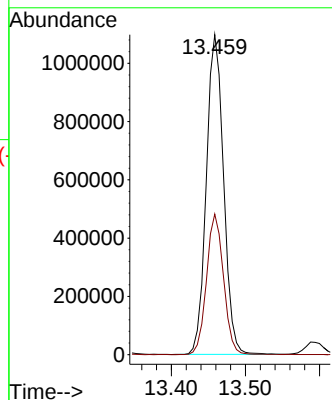
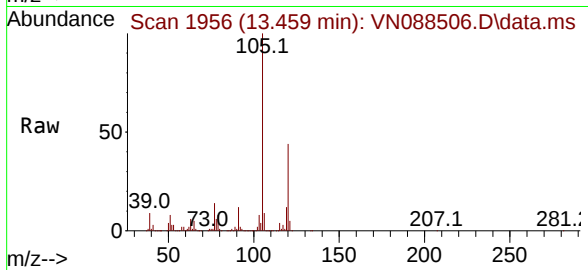
RE

Tgt Ion:105 Resp: 1779205

Ion Ratio Lower Upper

105 100

120 43.3 22.1 66.1



#85

sec-Butylbenzene

Concen: 3.629 ug/l

RT: 13.588 min Scan# 1978

Delta R.T. -0.006 min

Lab File: VN088506.D

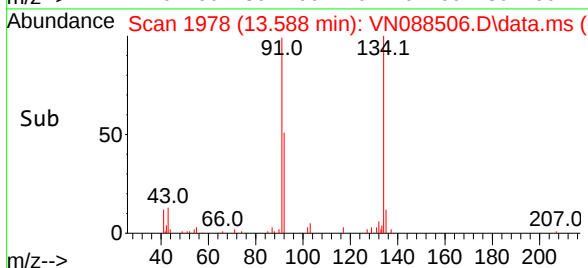
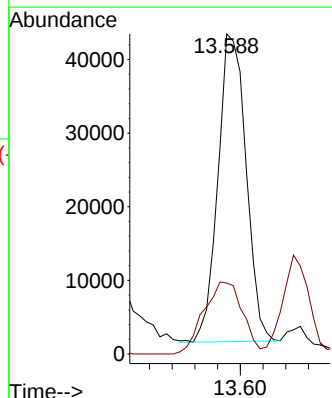
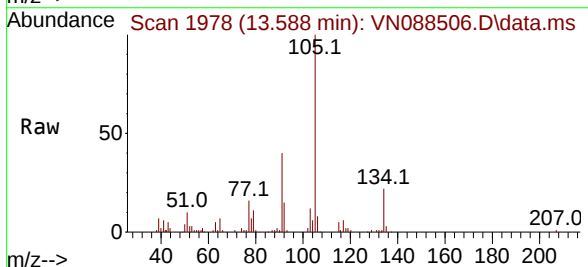
Acq: 10 Dec 2025 17:13

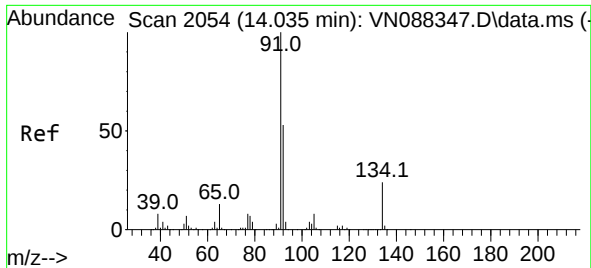
Tgt Ion:105 Resp: 71798

Ion Ratio Lower Upper

105 100

134 32.2 9.5 28.5#





#89

n-Butylbenzene

Concen: 3.630 ug/l

RT: 14.029 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN088506.D

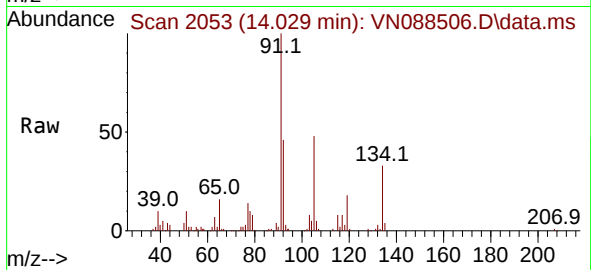
Acq: 10 Dec 2025 17:13

Instrument :

MSVOA_N

ClientSampleId :

RE



Tgt Ion: 91 Resp: 57174

Ion Ratio Lower Upper

91 100

92 60.1 26.1 78.3

134 0.0 11.7 35.1#

