

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088045.D
 Acq On : 08 Oct 2025 16:44
 Operator : JC\MD
 Sample : Q3281-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(OCT)

Quant Time: Oct 09 02:59:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

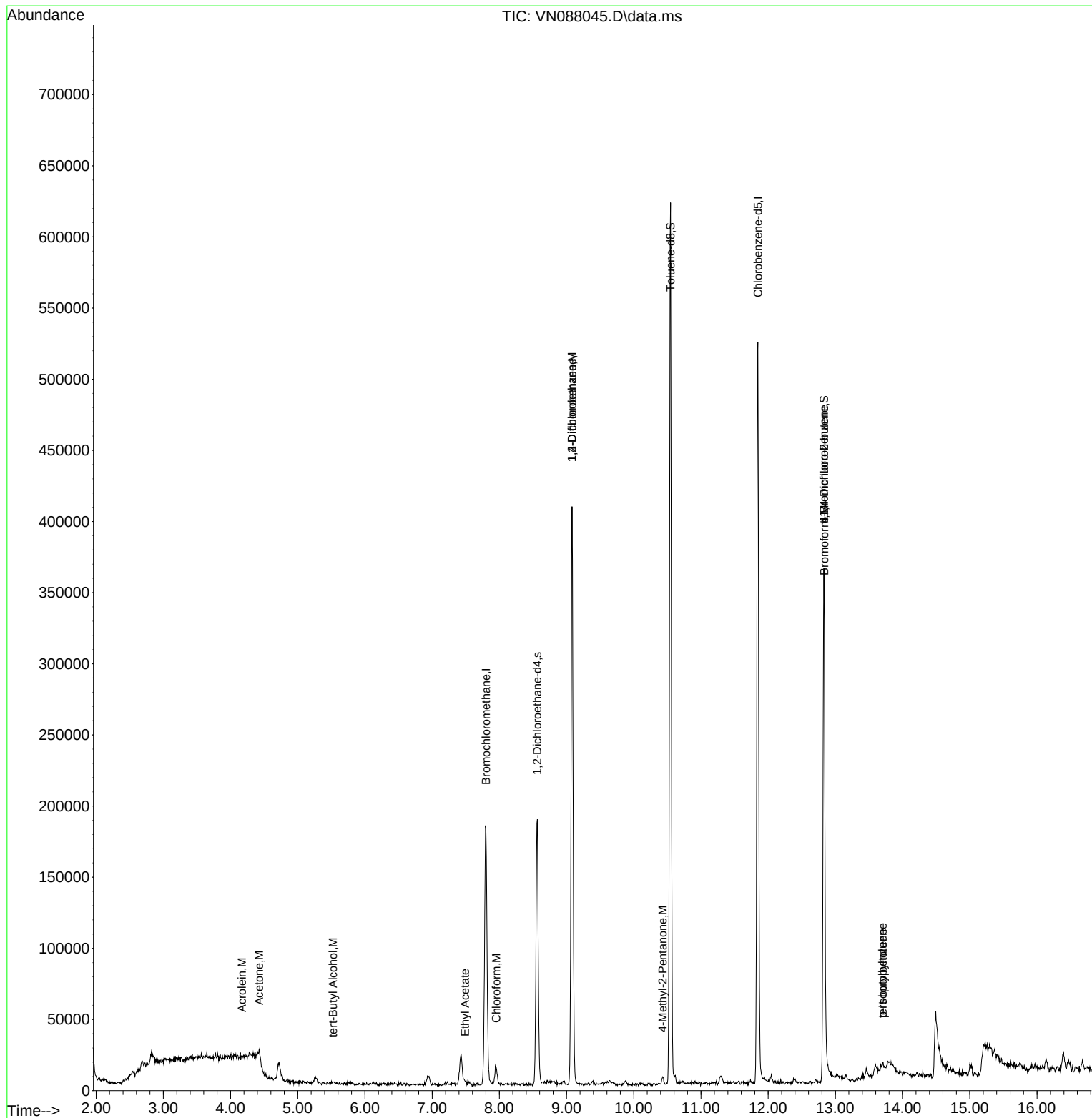
Internal Standards						
1) Bromochloromethane	7.800	128	64155	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	352319	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	309016	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	149389	29.904	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.667%
60) 4-Bromofluorobenzene	12.829	95	142776	28.027	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.433%
63) Toluene-d8	10.547	98	423383	30.751	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.500%
Target Compounds						
					Qvalue	
13) Acrolein	4.171	56	204	0.240	ug/l #	1
15) Acetone	4.424	58	3516	4.537	ug/l #	59
23) tert-Butyl Alcohol	5.524	59	961	0.905	ug/l #	100
25) Chloroform	7.953	83	11635	1.495	ug/l	92
36) 1,2-Dichloroethane	9.082	62	12835	2.207	ug/l #	74
43) Ethyl Acetate	7.488	43	1961	0.274	ug/l	98
56) Bromoform	12.835	173	1261	0.385	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	3277	0.474	ug/l #	83
77) t-1,4-Dichloro-2-butene	12.829	75	79334	35.267	ug/l #	17
79) tert-butylbenzene	13.706	119	3737	0.283	ug/l	63
82) p-Isopropyltoluene	13.706	119	3737	0.236	ug/l	85

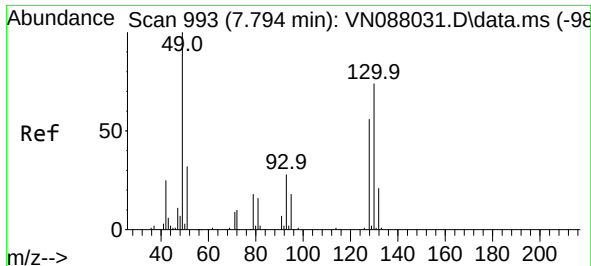
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

Quant Time: Oct 09 02:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

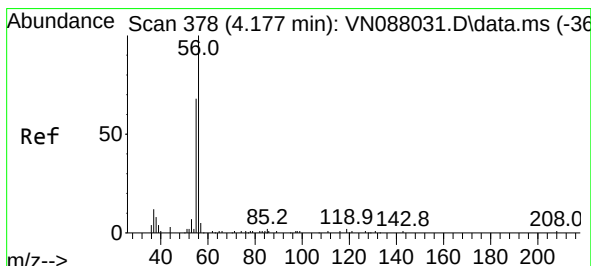
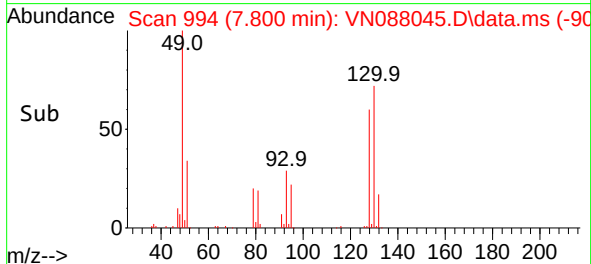
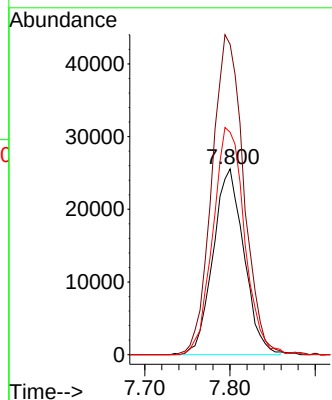
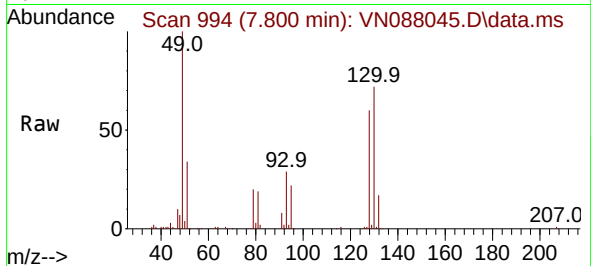




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

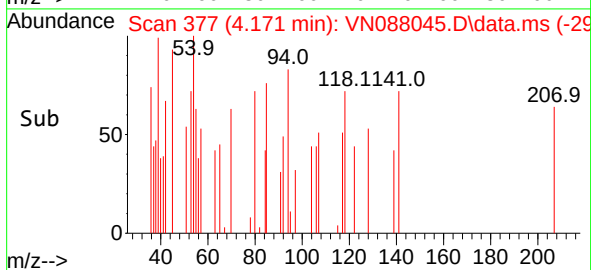
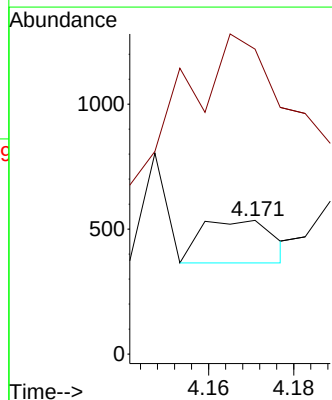
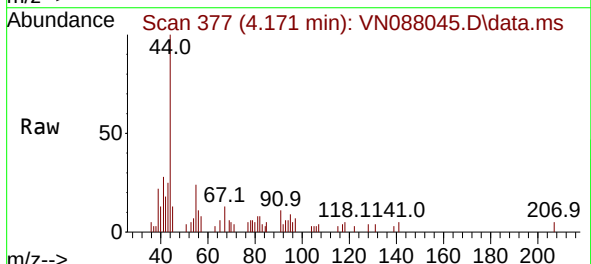
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

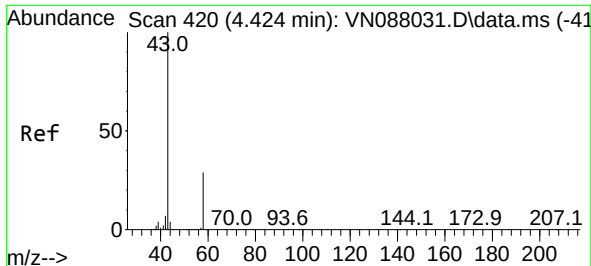
Tgt Ion:128 Resp: 64155
Ion Ratio Lower Upper
128 100
49 177.3 0.0 439.8
130 124.6 0.0 325.8



#13
Acrolein
Concen: 0.240 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion: 56 Resp: 204
Ion Ratio Lower Upper
56 100
55 485.8 0.3 0.5#

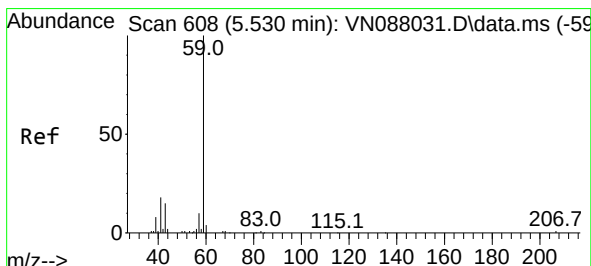
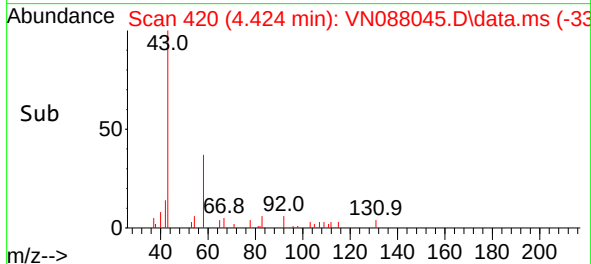
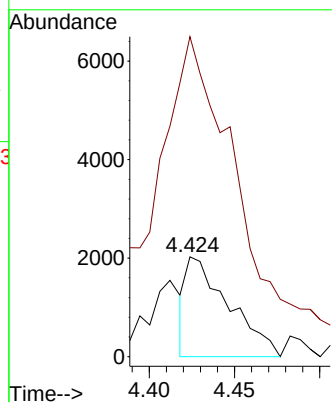
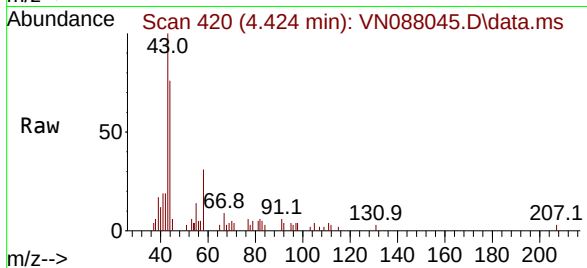




#15
Acetone
Concen: 4.537 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

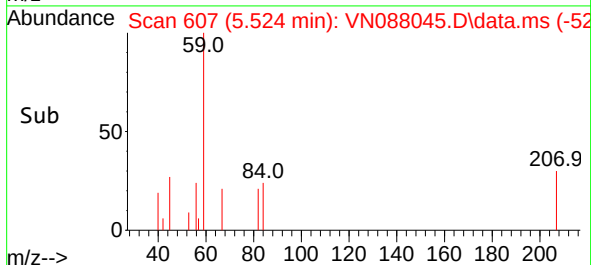
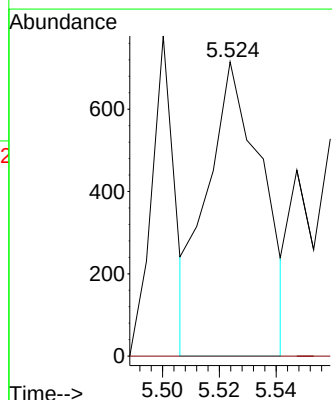
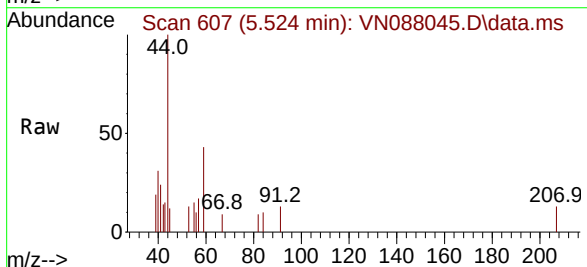
Instrument :
MSVOA_N
ClientSampleId :
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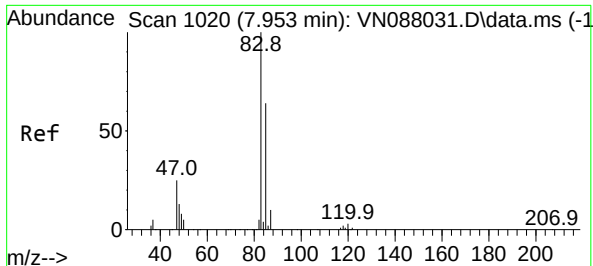
Tgt Ion: 58 Resp: 3516
Ion Ratio Lower Upper
58 100
43 262.9 282.6 424.0#



#23
tert-Butyl Alcohol
Concen: 0.905 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion: 59 Resp: 961
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#25

Chloroform

Concen: 1.495 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. -0.000 min

Lab File: VN088045.D

Acq: 08 Oct 2025 16:44

Instrument :

MSVOA_N

ClientSampleId :

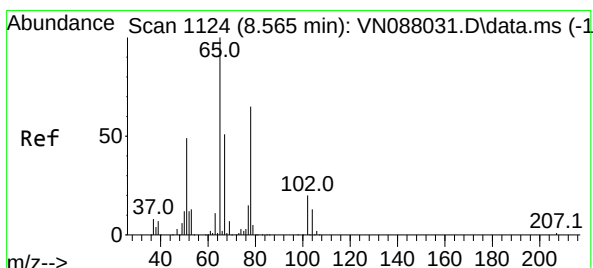
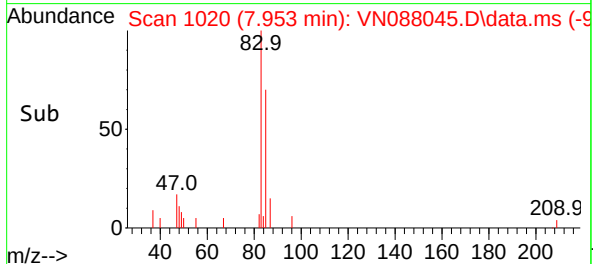
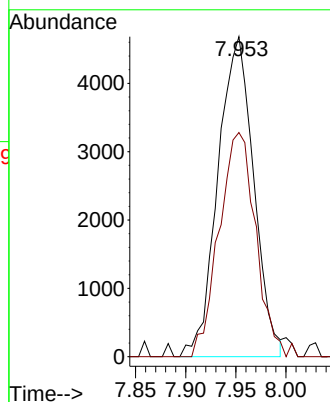
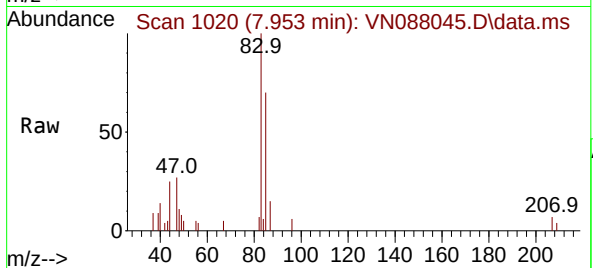
002-35TH-AVE(OCT)

Tgt Ion: 83 Resp: 11635

Ion Ratio Lower Upper

83 100

85 70.0 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 29.904 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN088045.D

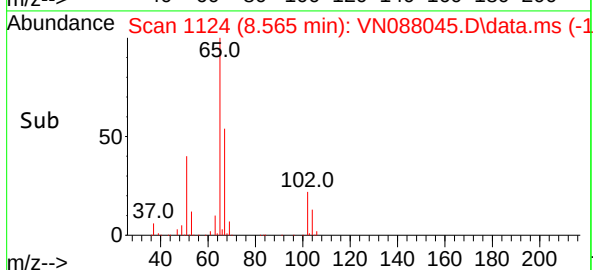
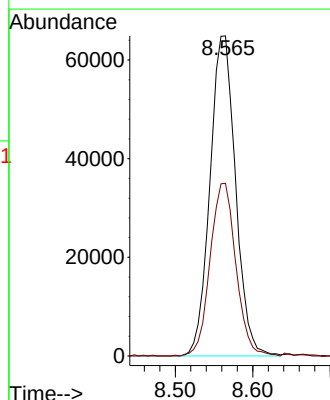
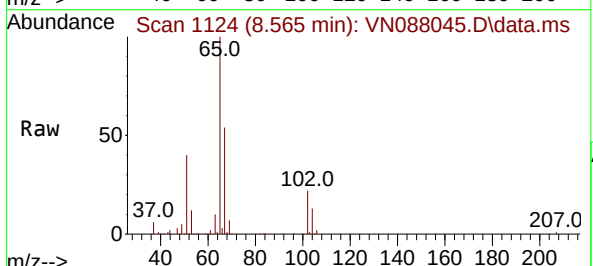
Acq: 08 Oct 2025 16:44

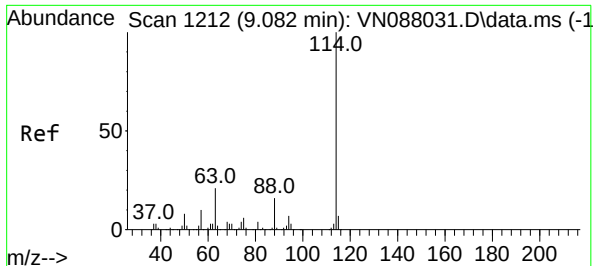
Tgt Ion: 65 Resp: 149389

Ion Ratio Lower Upper

65 100

67 54.2 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088045.D

Acq: 08 Oct 2025 16:44

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(OCT)

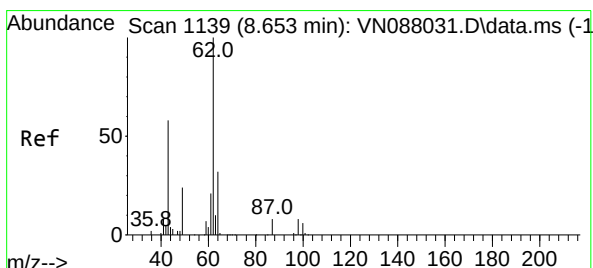
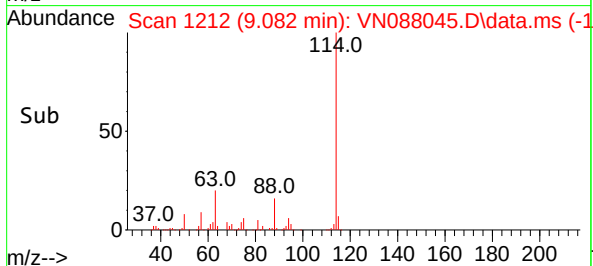
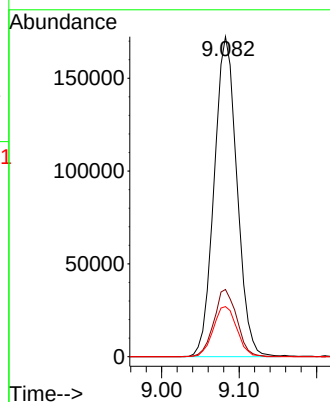
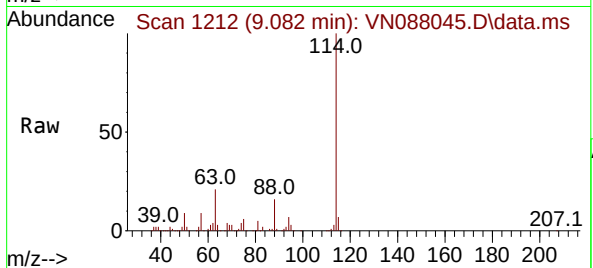
Tgt Ion:114 Resp: 352319

Ion Ratio Lower Upper

114 100

63 21.1 16.6 25.0

88 16.2 12.6 18.8



#36

1,2-Dichloroethane

Concen: 2.207 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.429 min

Lab File: VN088045.D

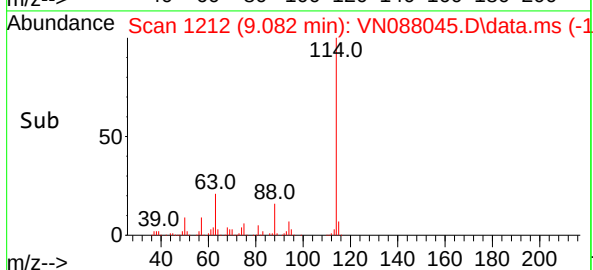
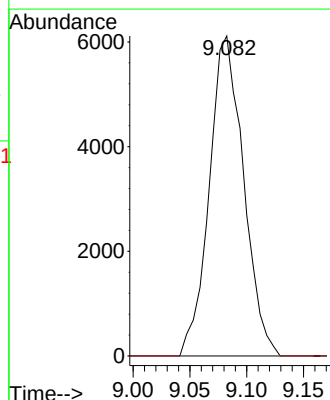
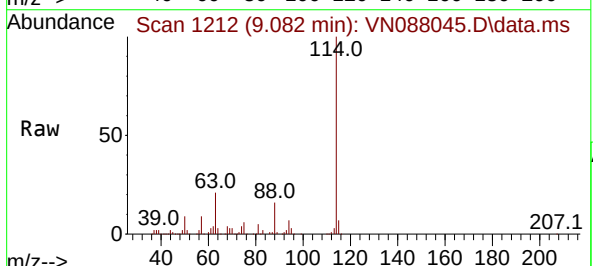
Acq: 08 Oct 2025 16:44

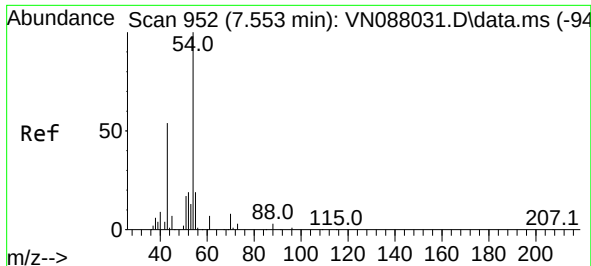
Tgt Ion: 62 Resp: 12835

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#

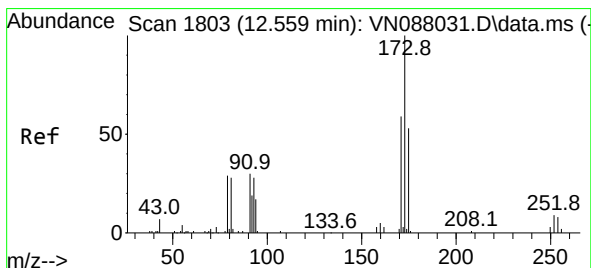
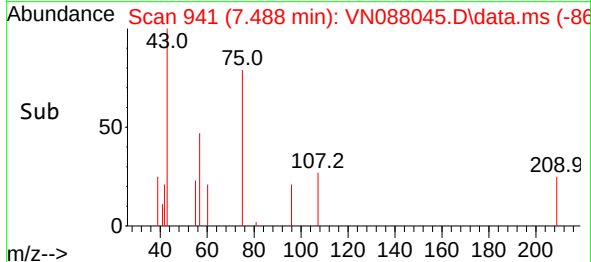
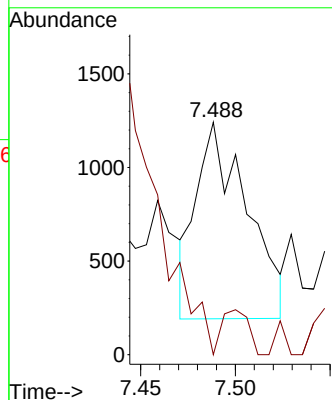
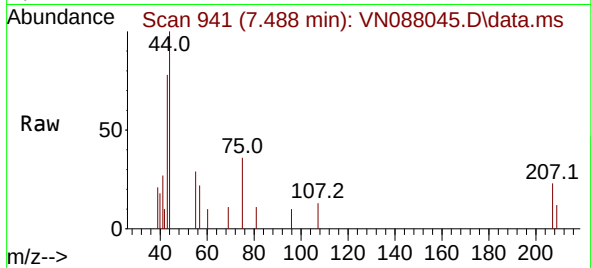




#43
Ethyl Acetate
Concen: 0.274 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.065 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

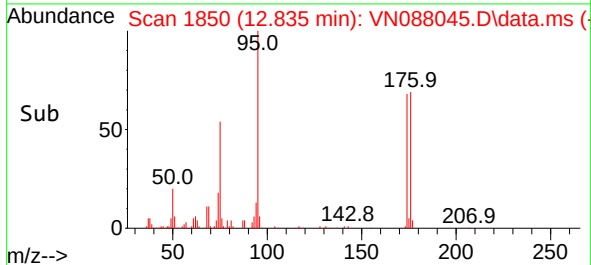
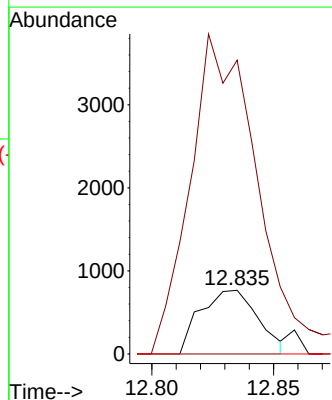
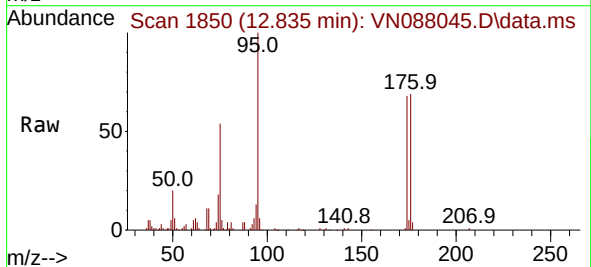
Instrument :
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002-35TH-AVE(OCT)

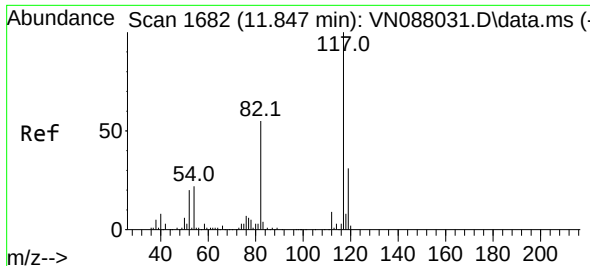
Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
45 11.8 10.2 15.4



#56
Bromoform
Concen: 0.385 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.276 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion:173 Resp: 1261
Ion Ratio Lower Upper
173 100
175 579.9 39.6 59.4#
254 0.0 6.6 10.0#

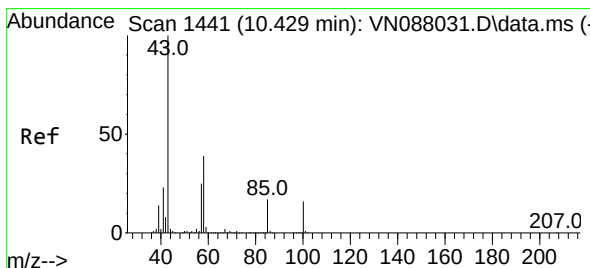
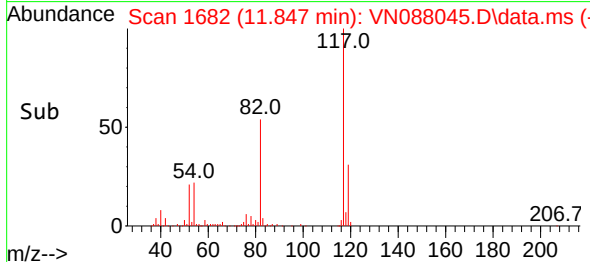
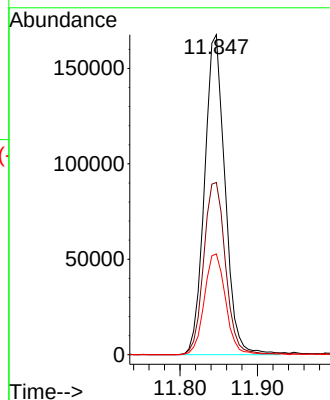
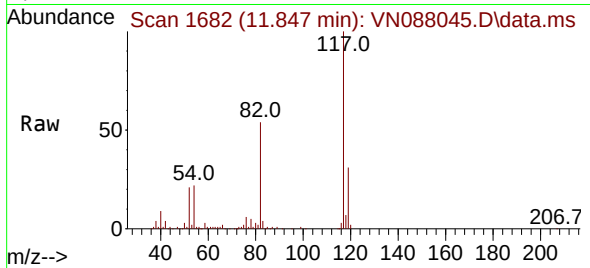




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

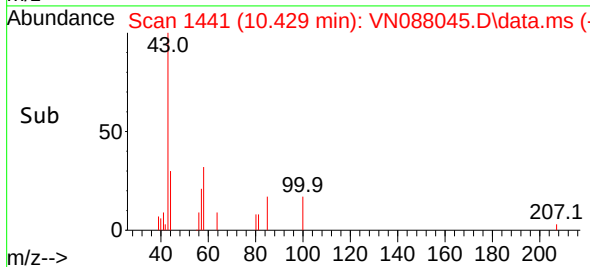
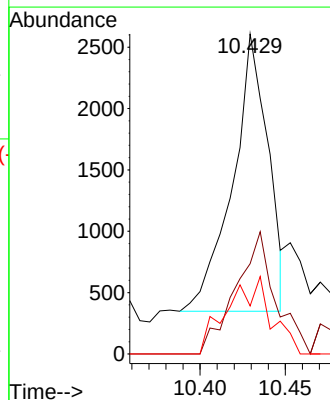
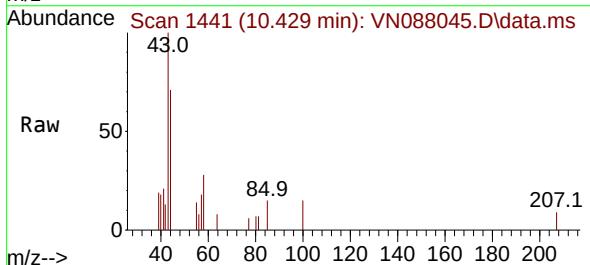
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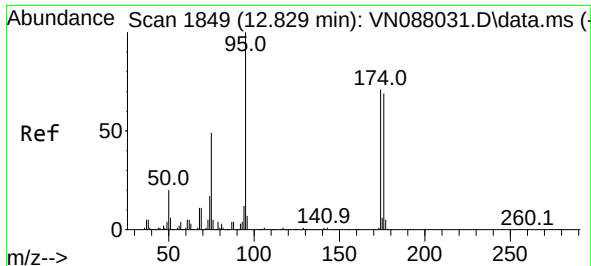
Tgt Ion:117 Resp: 309016
Ion Ratio Lower Upper
117 100
82 57.0 45.2 67.8
119 32.6 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 0.474 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion: 43 Resp: 3277
Ion Ratio Lower Upper
43 100
58 49.2 31.2 46.8#
85 9.0 13.7 20.5#

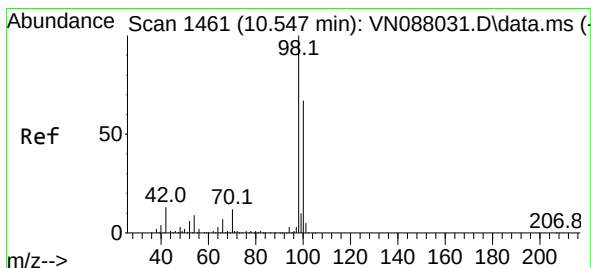
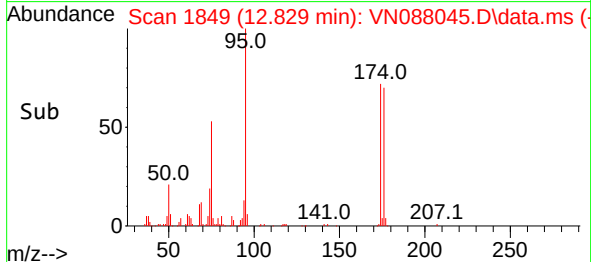
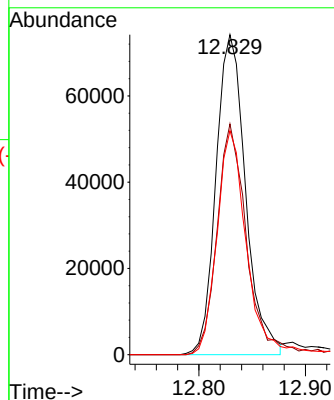
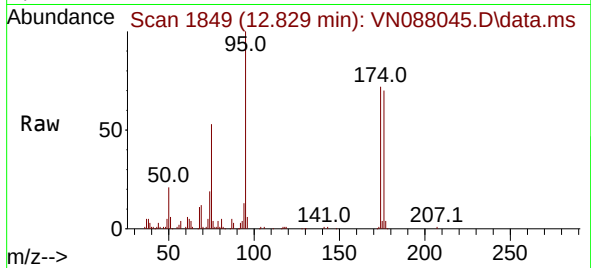




#60
4-Bromofluorobenzene
Concen: 28.027 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

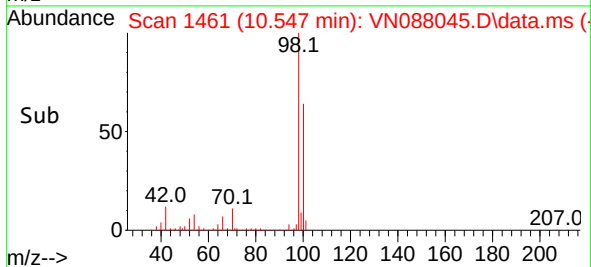
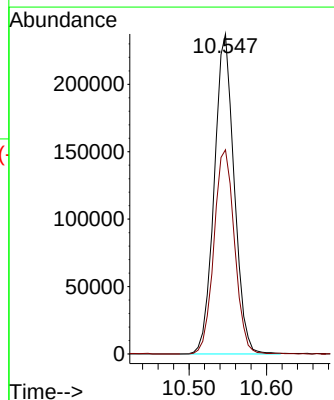
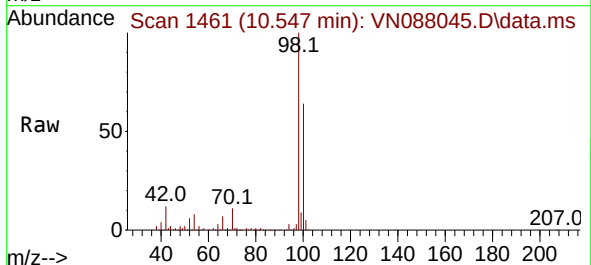
Instrument :
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002-35TH-AVE(OCT)

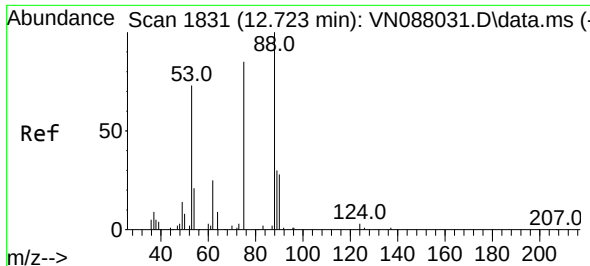
Tgt Ion: 95 Resp: 142776
Ion Ratio Lower Upper
95 100
174 69.0 57.4 86.0
176 68.5 57.0 85.4



#63
Toluene-d8
Concen: 30.751 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion: 98 Resp: 423383
Ion Ratio Lower Upper
98 100
100 65.8 53.1 79.7

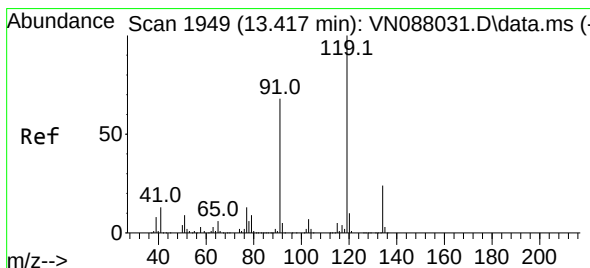
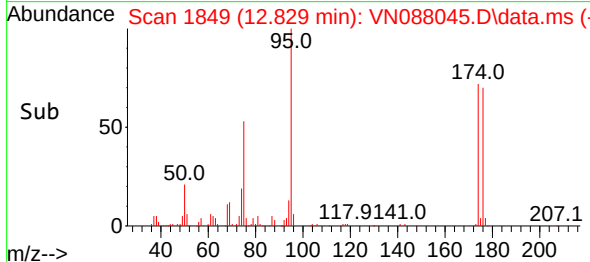
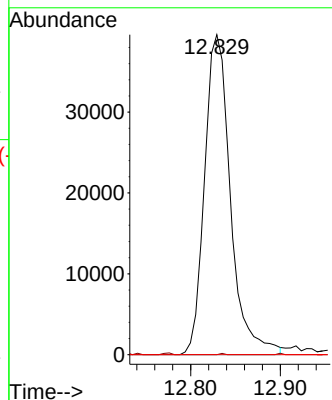
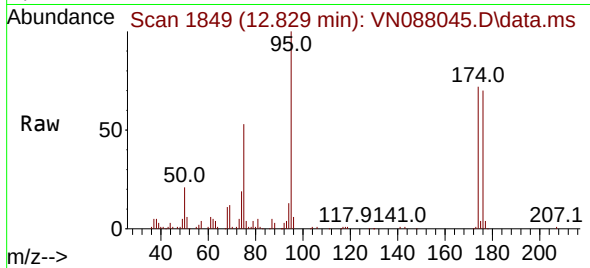




#77
t-1,4-Dichloro-2-butene
Concen: 35.267 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

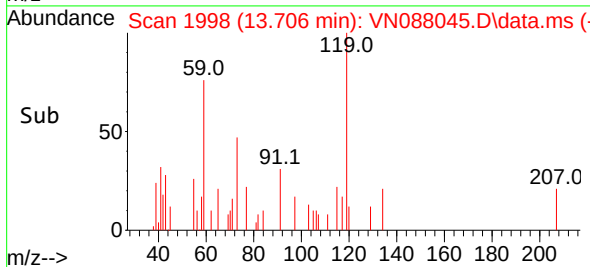
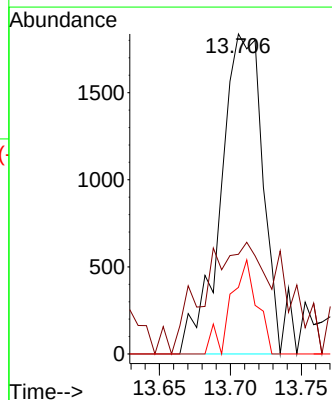
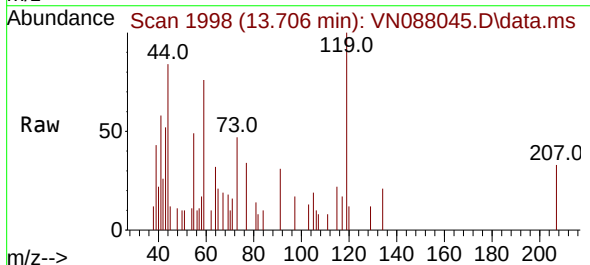
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

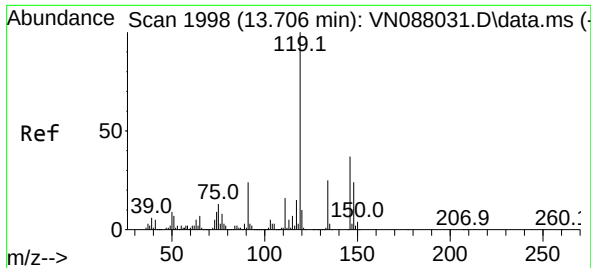
Tgt Ion: 75 Resp: 79334
Ion Ratio Lower Upper
75 100
53 0.0 41.8 125.3#
89 0.0 19.9 59.6#



#79
tert-butylbenzene
Concen: 0.283 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.288 min
Lab File: VN088045.D
Acq: 08 Oct 2025 16:44

Tgt Ion: 119 Resp: 3737
Ion Ratio Lower Upper
119 100
91 30.1 0.0 132.4
134 16.9 0.0 48.6





#82
 p-Isopropyltoluene
 Concen: 0.236 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN088045.D
 Acq: 08 Oct 2025 16:44

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(OCT)

Tgt Ion:	119	Resp:	3737
Ion	Ratio	Lower	Upper
119	100		
134	16.9	0.0	52.6
91	30.1	0.0	48.2

