

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088044.D
 Acq On : 08 Oct 2025 16:23
 Operator : JC\MD
 Sample : Q3281-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(OCT)

Quant Time: Oct 09 02:59:00 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)

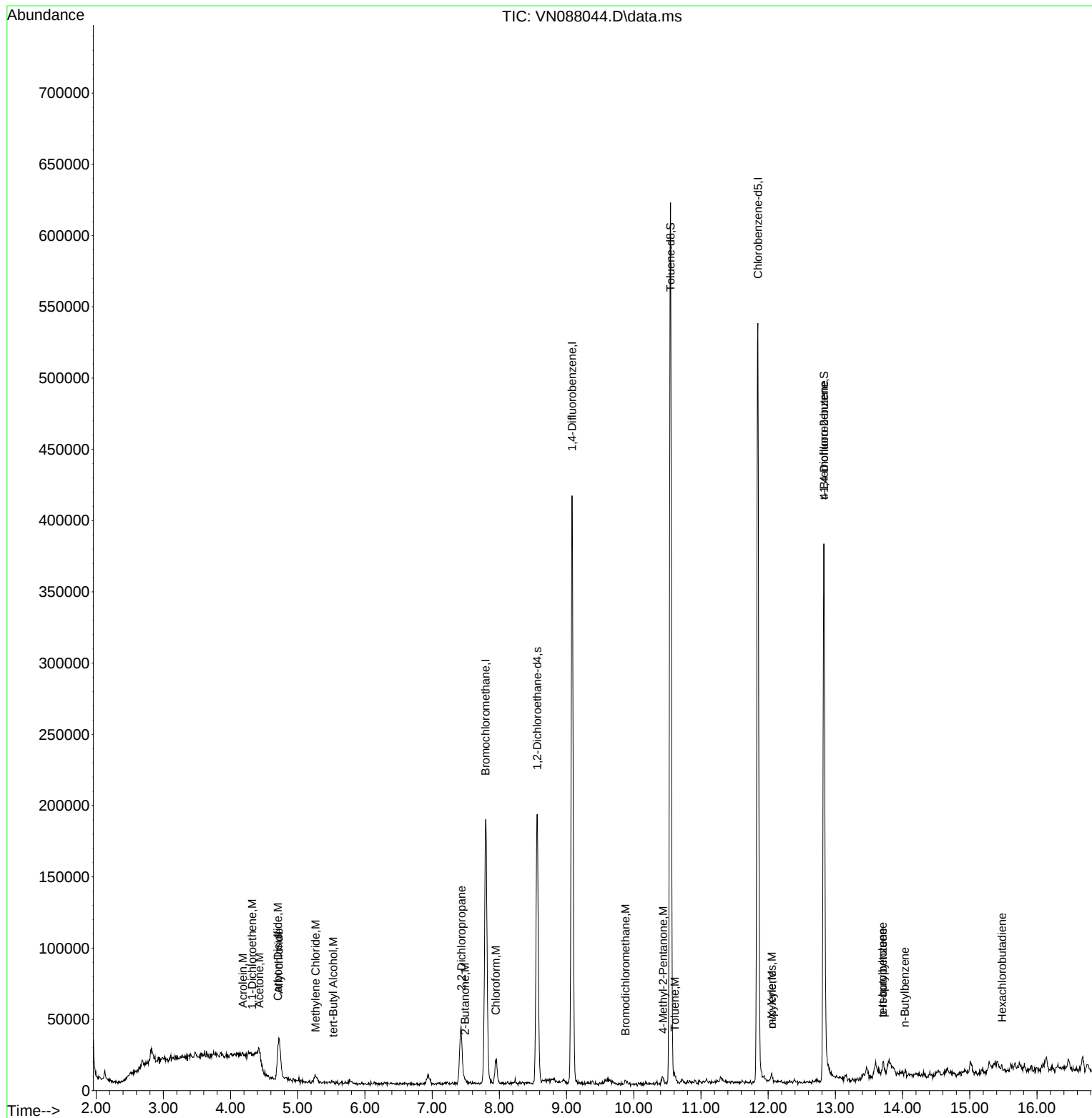
Internal Standards						
1) Bromochloromethane	7.794	128	64341	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	356991	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	318567	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	160423	32.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.733%			
60) 4-Bromofluorobenzene	12.829	95	153489	29.226	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.433%			
63) Toluene-d8	10.547	98	430391	30.323	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
10) 1,1-Dichloroethene	4.324	96	813	0.240	ug/l #	1
13) Acrolein	4.183	56	549	0.645	ug/l #	1
15) Acetone	4.430	58	3020	3.885	ug/l #	68
16) Carbon Disulfide	4.706	76	2531	0.239	ug/l #	81
17) Allyl chloride	4.718	41	2603	0.408	ug/l	71
18) Methylene Chloride	5.265	84	4357	1.013	ug/l #	88
23) tert-Butyl Alcohol	5.530	59	551	0.518	ug/l #	100
25) Chloroform	7.947	83	16371	2.097	ug/l	92
30) 2-Butanone	7.488	43	769	0.204	ug/l #	89
31) 2,2-Dichloropropane	7.435	77	1659	0.252	ug/l #	53
41) Bromodichloromethane	9.876	83	1606	0.254	ug/l #	91
58) 4-Methyl-2-Pentanone	10.435	43	4433	0.622	ug/l	91
62) Toluene	10.612	91	3952	0.219	ug/l	88
67) m/p-Xylenes	12.053	106	1560	0.206	ug/l #	69
68) o-Xylene	12.053	106	1560	0.207	ug/l	64
77) t-1,4-Dichloro-2-butene	12.829	75	78599	33.893	ug/l #	17
79) tert-butylbenzene	13.706	119	6185	0.454	ug/l	63
82) p-Isopropyltoluene	13.706	119	6185	0.379	ug/l	94
85) n-Butylbenzene	14.035	91	3105	0.204	ug/l	71
90) Hexachlorobutadiene	15.482	225	386	0.223	ug/l	75

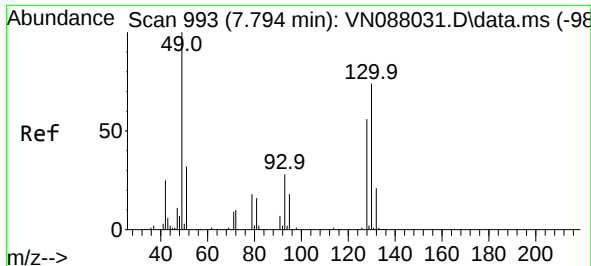
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
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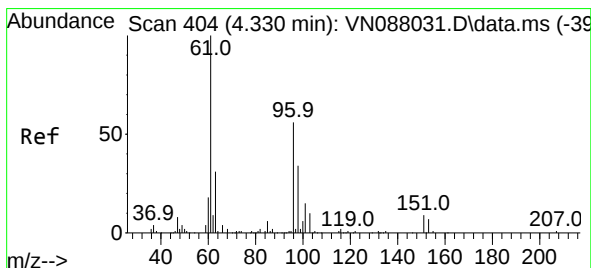
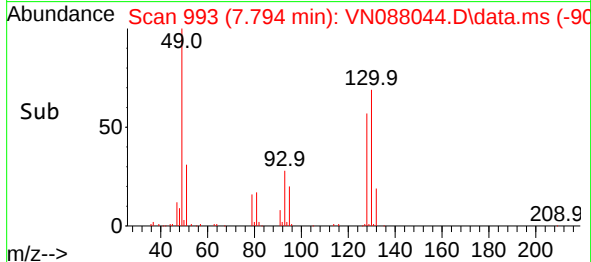
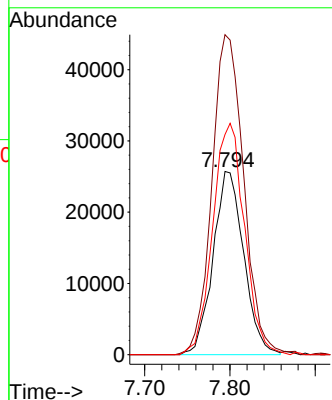
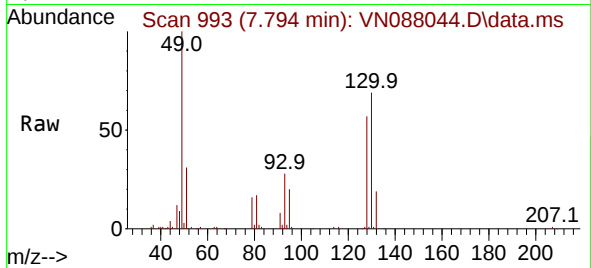




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

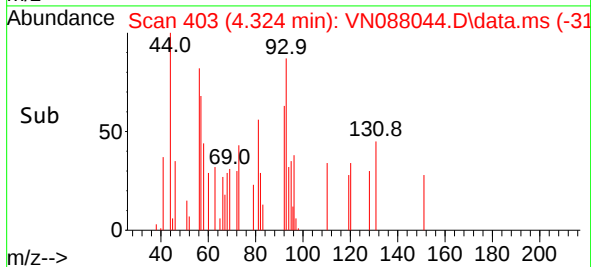
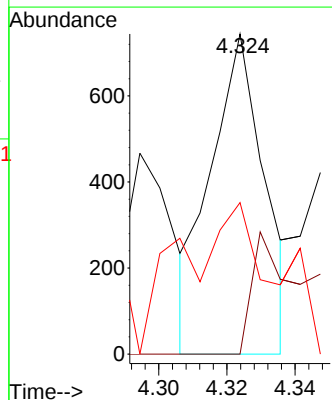
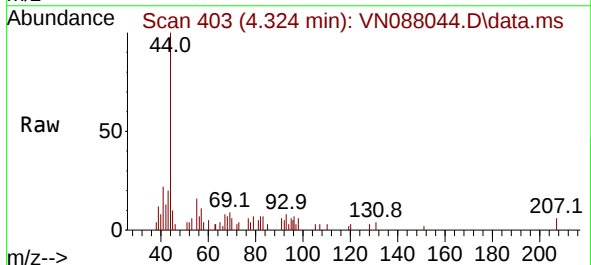
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

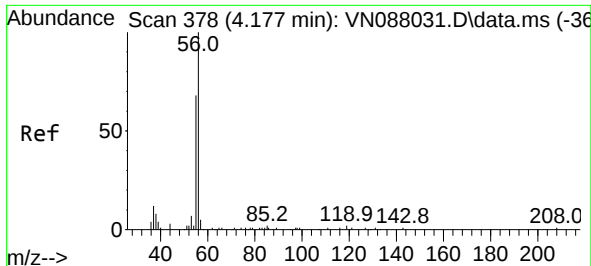
Tgt Ion:128 Resp: 64341
Ion Ratio Lower Upper
128 100
49 180.6 0.0 439.8
130 130.9 0.0 325.8



#10
1,1-Dichloroethene
Concen: 0.240 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 96 Resp: 813
Ion Ratio Lower Upper
96 100
61 0.0 144.1 216.1#
98 37.5 49.0 73.6#

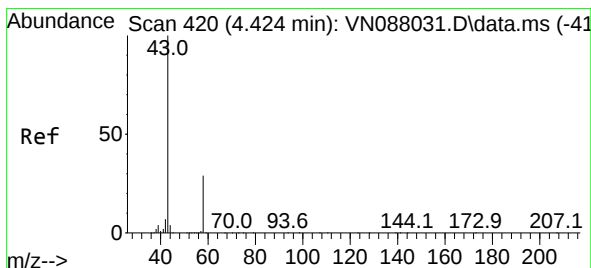
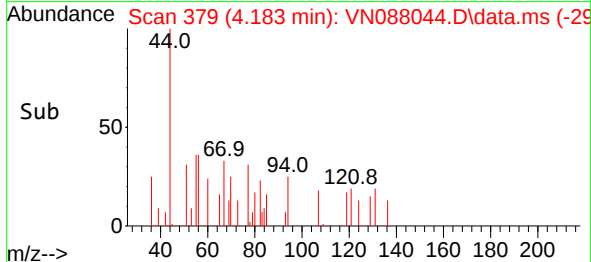
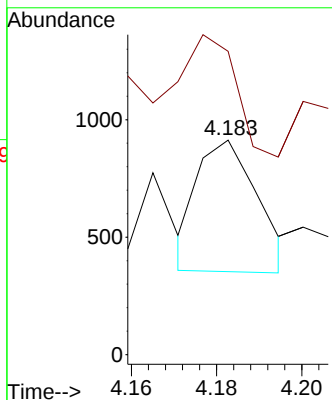
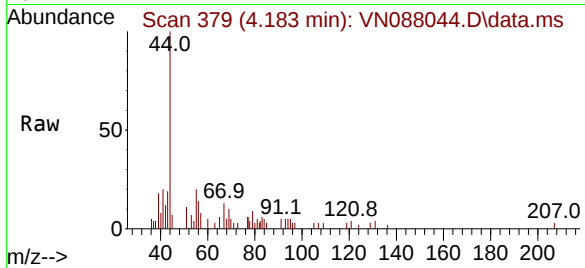




#13
Acrolein
Concen: 0.645 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

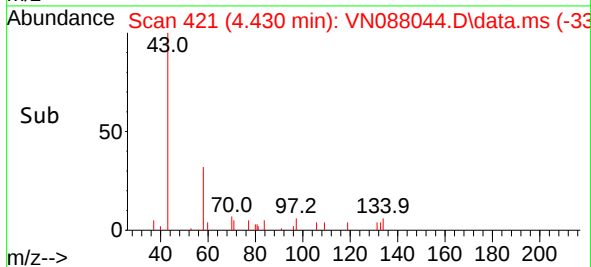
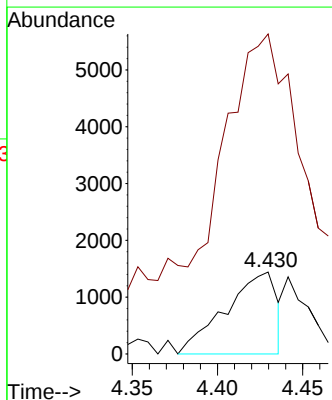
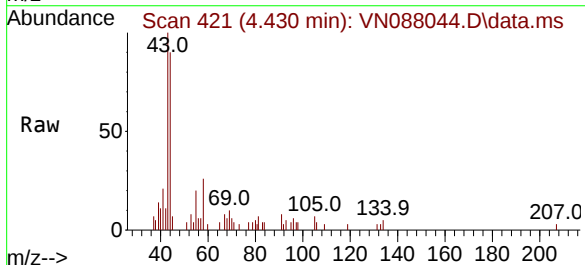
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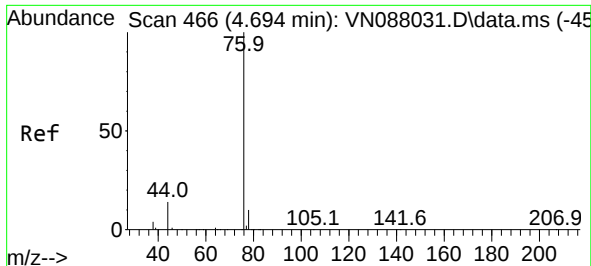
Tgt Ion: 56 Resp: 549
Ion Ratio Lower Upper
56 100
55 187.8 0.3 0.5#



#15
Acetone
Concen: 3.885 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 58 Resp: 3020
Ion Ratio Lower Upper
58 100
43 282.3 282.6 424.0#

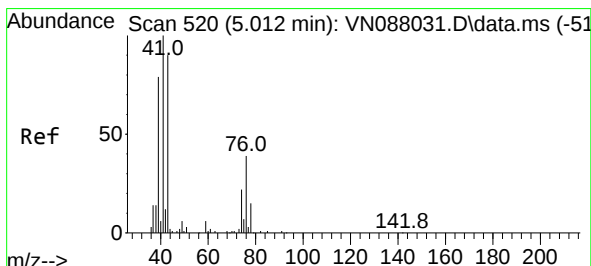
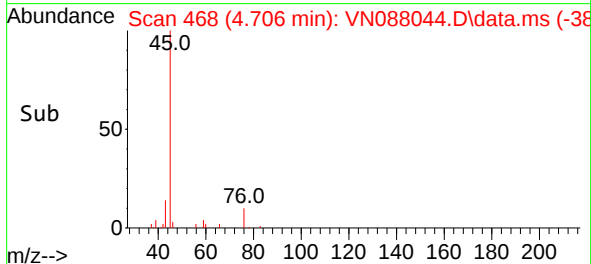
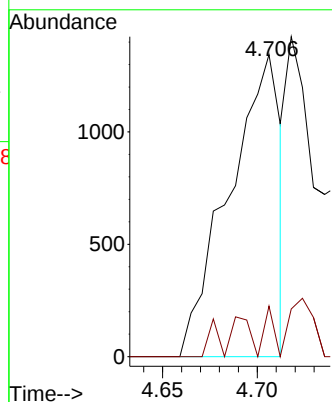
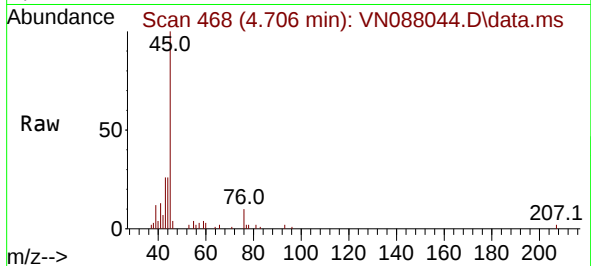




#16
Carbon Disulfide
Concen: 0.239 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

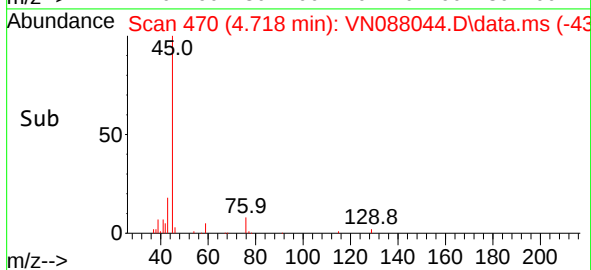
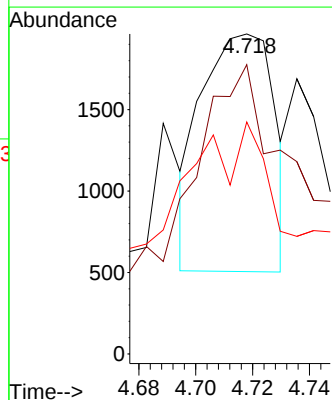
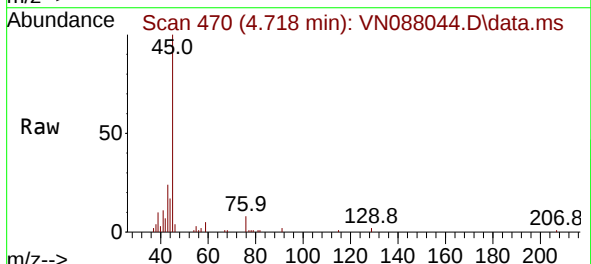
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

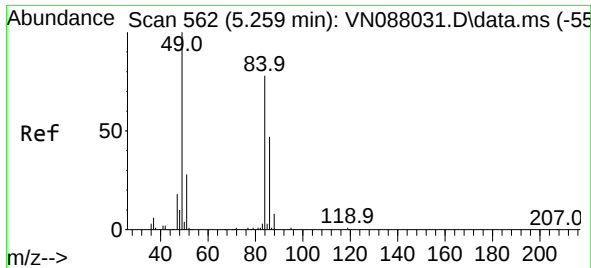
Tgt Ion: 76 Resp: 2531
Ion Ratio Lower Upper
76 100
78 16.7 7.8 11.8#



#17
Allyl chloride
Concen: 0.408 ug/l
RT: 4.718 min Scan# 470
Delta R.T. -0.294 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 41 Resp: 2603
Ion Ratio Lower Upper
41 100
39 97.4 36.4 109.2
76 52.4 18.1 54.1

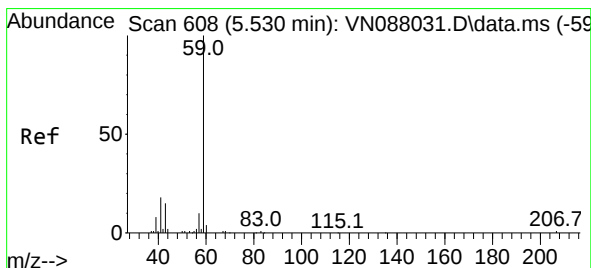
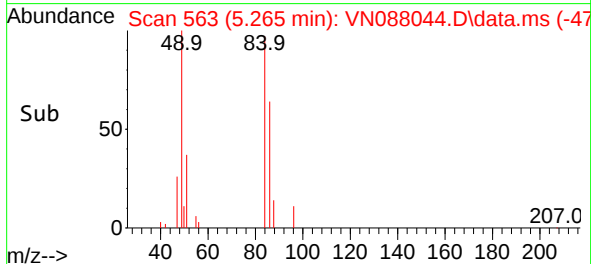
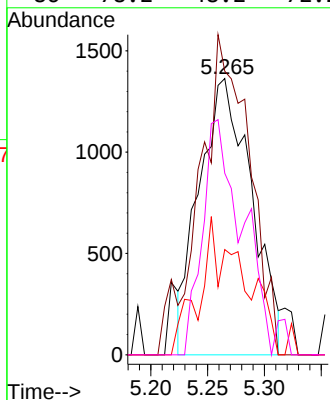
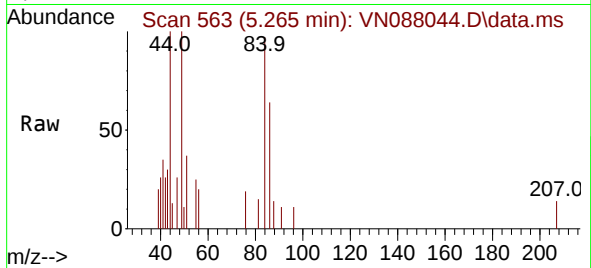




#18
Methylene Chloride
Concen: 1.013 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

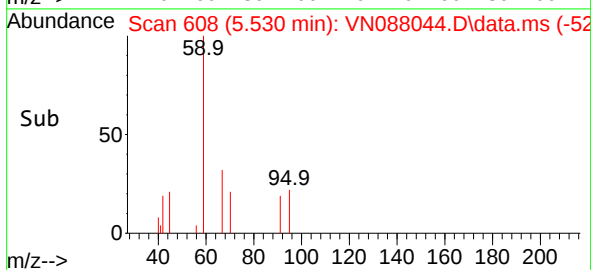
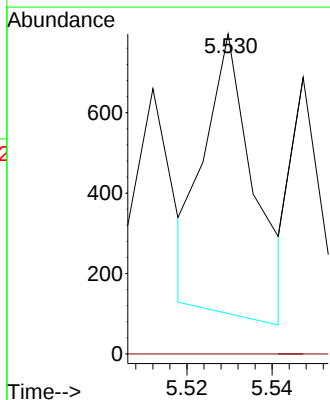
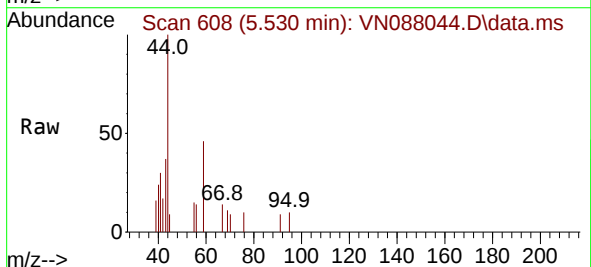
Instrument :
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ClientSampleId :
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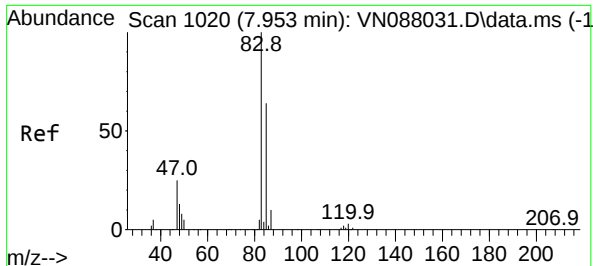
Tgt Ion:	84	Resp:	4357
Ion	Ratio	Lower	Upper
84	100		
49	122.2	102.6	153.8
51	45.3	28.6	42.8#
86	78.2	48.2	72.2#



#23
tert-Butyl Alcohol
Concen: 0.518 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion:	59	Resp:	551
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

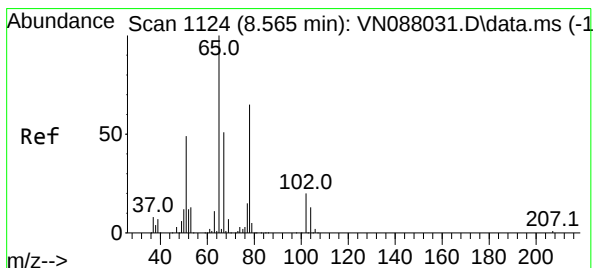
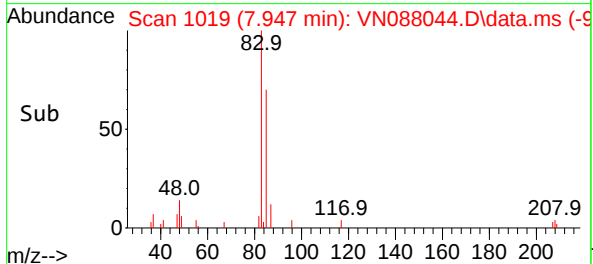
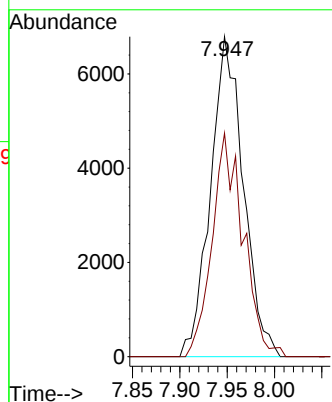
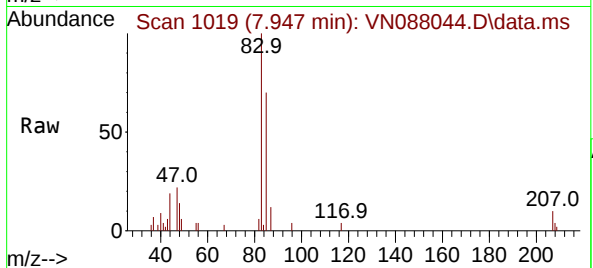




#25
Chloroform
Concen: 2.097 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

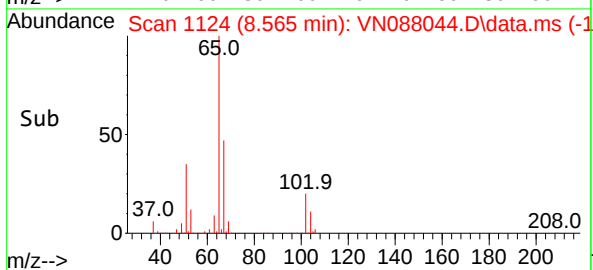
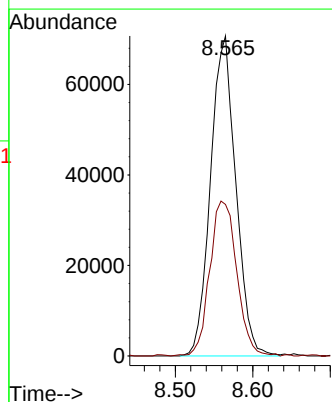
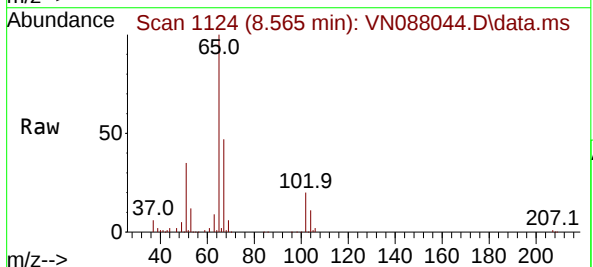
Instrument :
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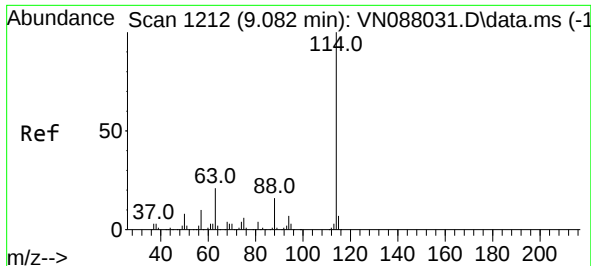
Tgt Ion: 83 Resp: 16371
Ion Ratio Lower Upper
83 100
85 69.8 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 32.020 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 65 Resp: 160423
Ion Ratio Lower Upper
65 100
67 51.5 41.9 62.9

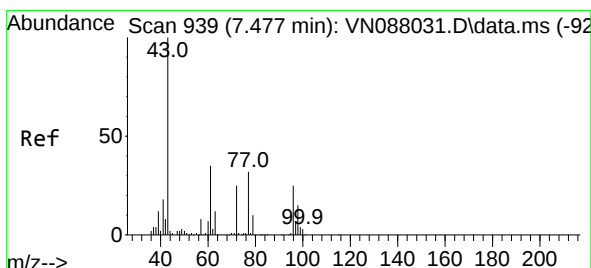
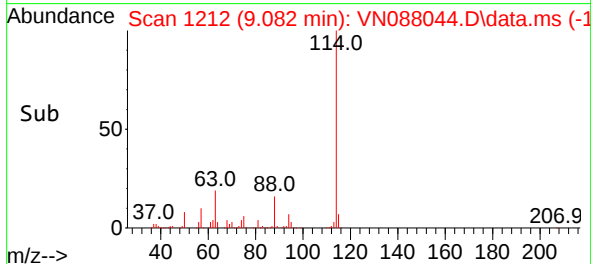
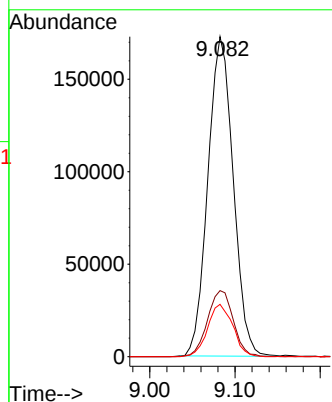
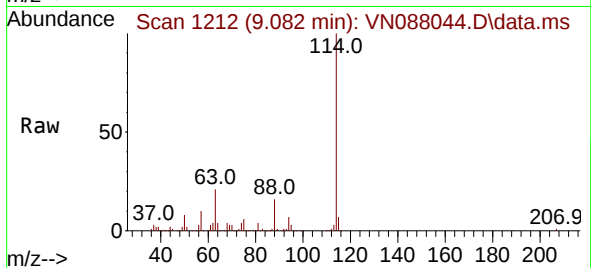




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

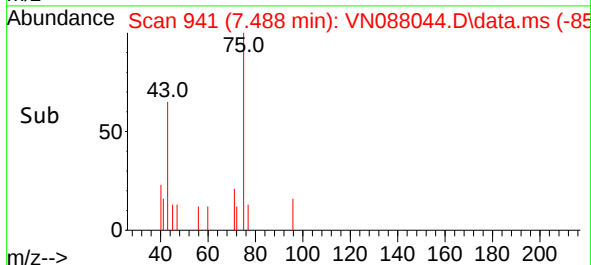
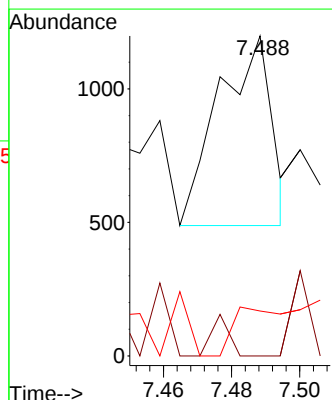
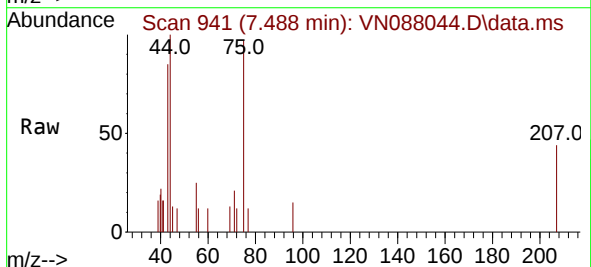
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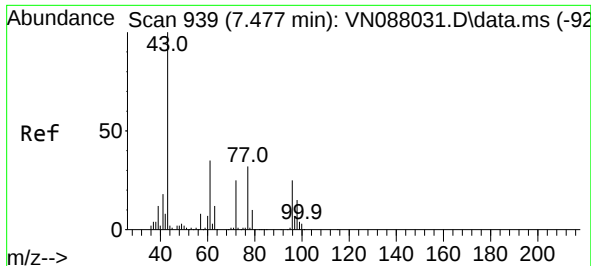
Tgt Ion:114 Resp: 356991
Ion Ratio Lower Upper
114 100
63 21.1 16.6 25.0
88 16.3 12.6 18.8



#30
2-Butanone
Concen: 0.204 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 43 Resp: 769
Ion Ratio Lower Upper
43 100
57 0.0 6.5 9.7#
72 23.3 21.4 32.2

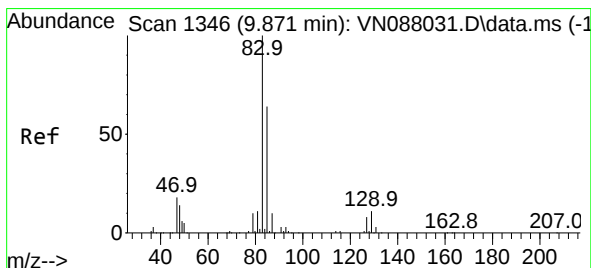
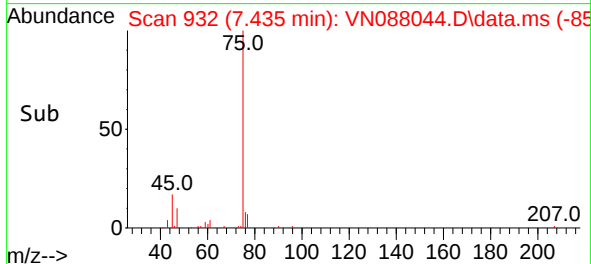
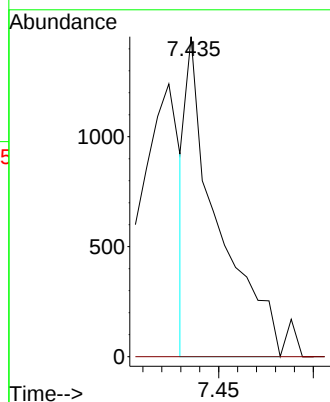
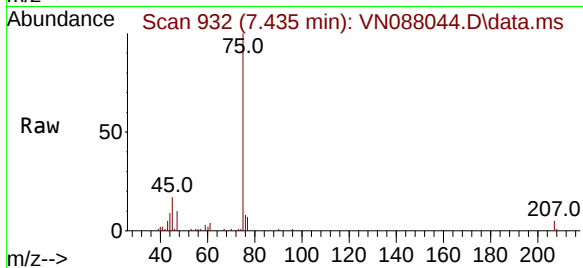




#31
2,2-Dichloropropane
Concen: 0.252 ug/l
RT: 7.435 min Scan# 91
Delta R.T. -0.041 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

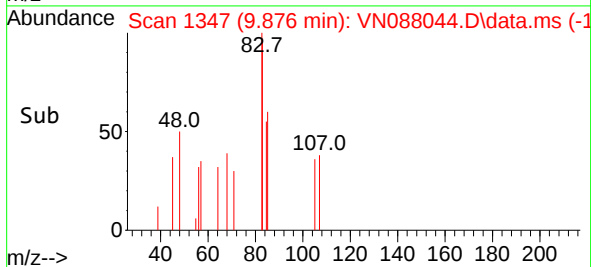
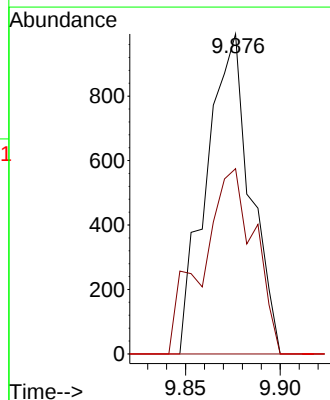
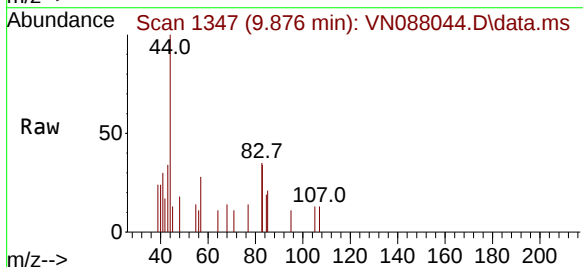
Instrument :
MSVOA_N
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001-WILLETS-PT-BLVD(OCT)

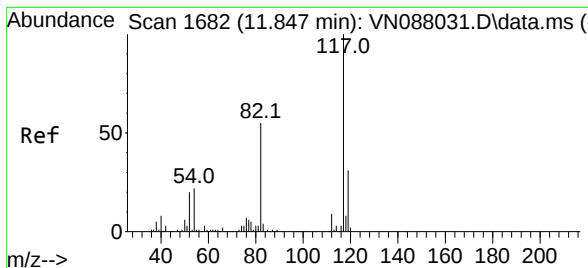
Tgt Ion: 77 Resp: 1659
Ion Ratio Lower Upper
77 100
97 0.0 17.8 26.8#



#41
Bromodichloromethane
Concen: 0.254 ug/l
RT: 9.876 min Scan# 1347
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 83 Resp: 1606
Ion Ratio Lower Upper
83 100
85 57.9 51.0 76.4
127 0.0 6.1 9.1#

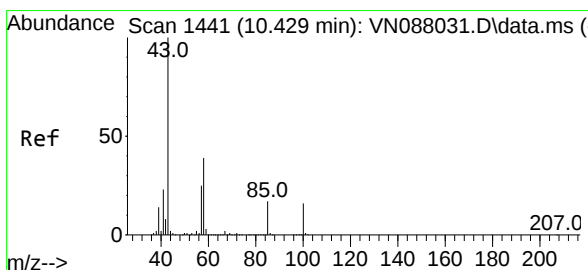
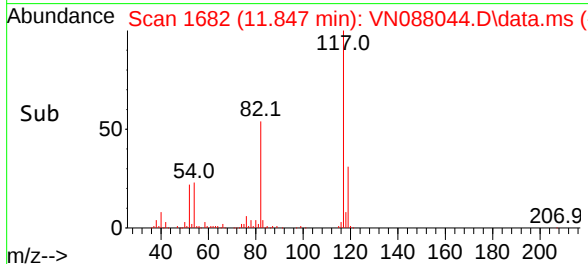
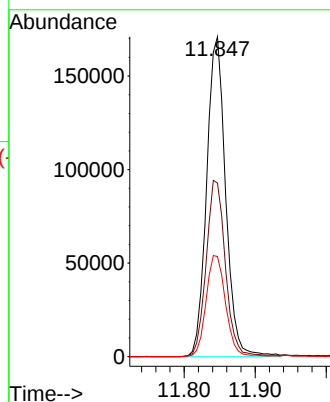
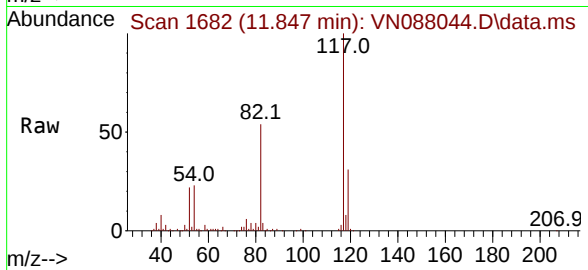




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

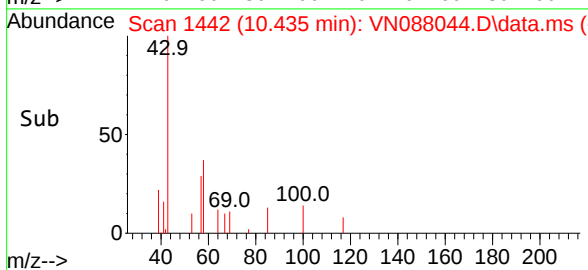
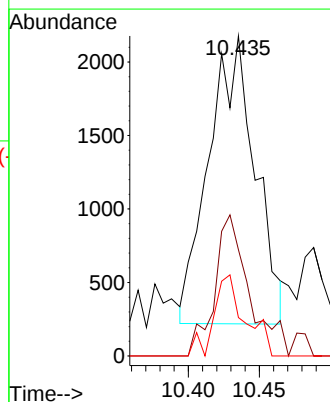
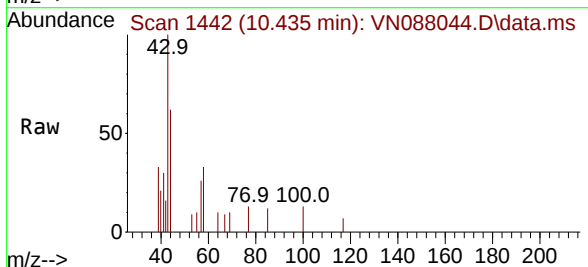
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

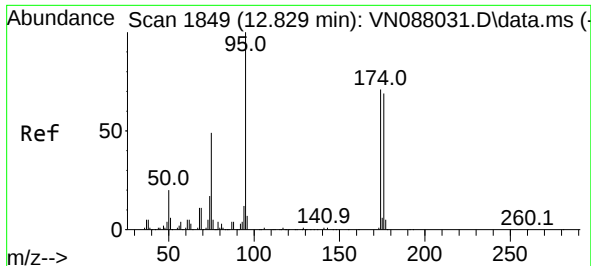
Tgt Ion:117 Resp: 318567
Ion Ratio Lower Upper
117 100
82 55.9 45.2 67.8
119 32.4 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 0.622 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 43 Resp: 4433
Ion Ratio Lower Upper
43 100
58 31.8 31.2 46.8
85 15.8 13.7 20.5

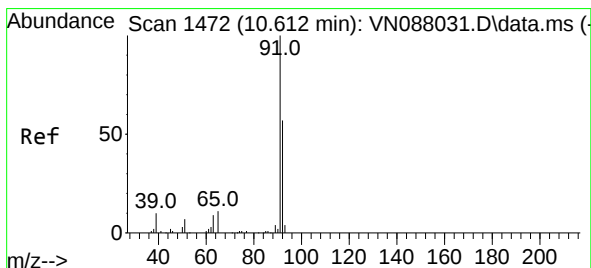
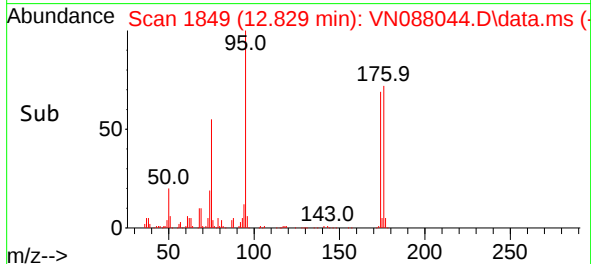
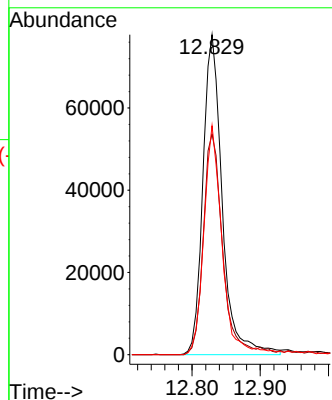
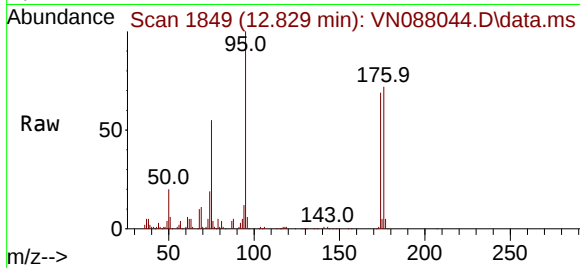




#60
4-Bromofluorobenzene
Concen: 29.226 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

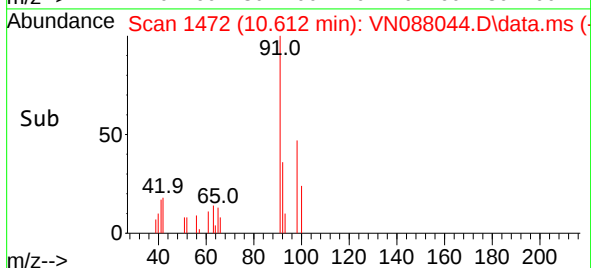
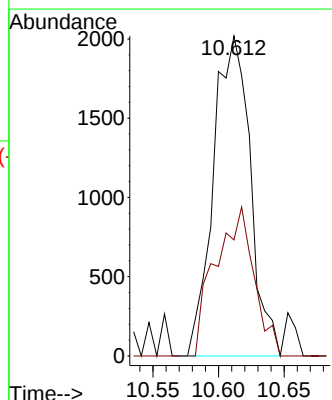
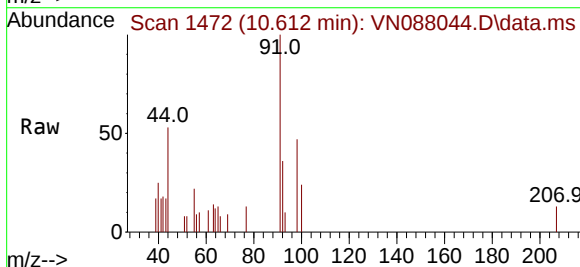
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

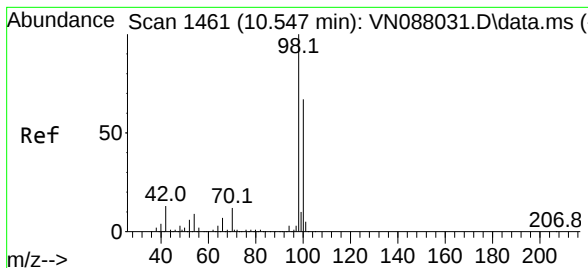
Tgt Ion: 95 Resp: 153489
Ion Ratio Lower Upper
95 100
174 68.0 57.4 86.0
176 68.0 57.0 85.4



#62
Toluene
Concen: 0.219 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 91 Resp: 3952
Ion Ratio Lower Upper
91 100
92 48.8 45.8 68.8

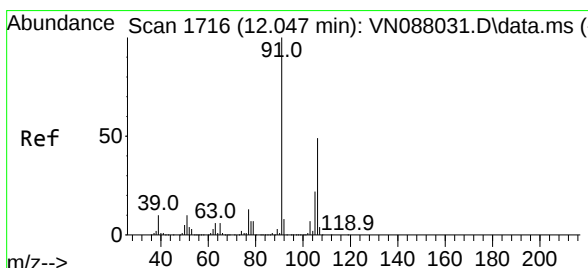
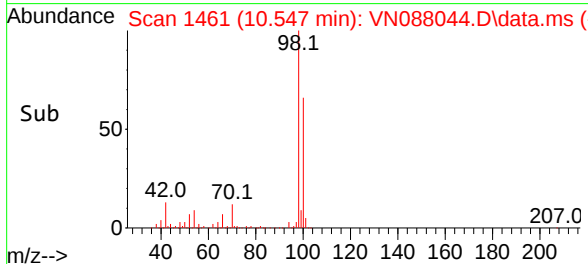
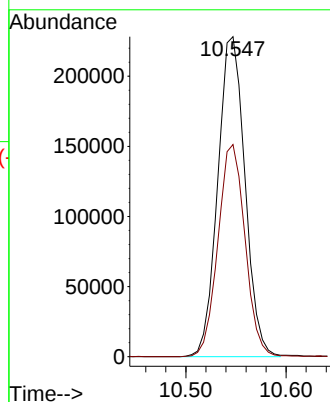
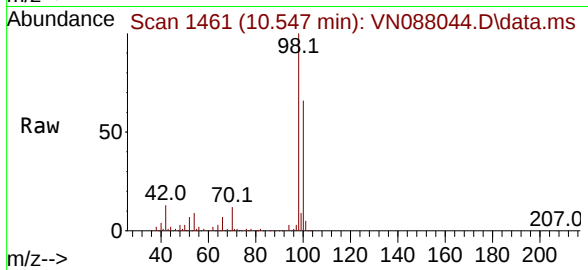




#63
Toluene-d8
Concen: 30.323 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

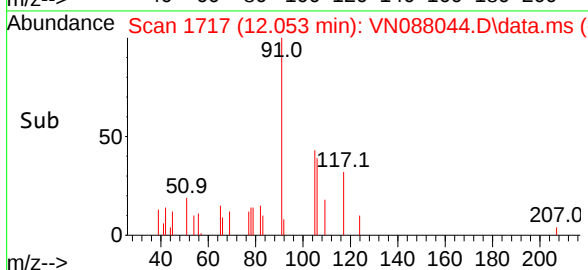
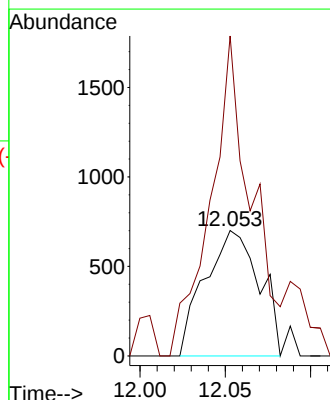
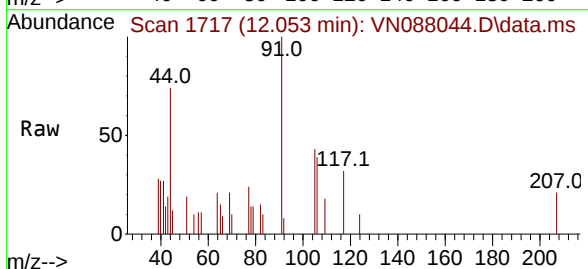
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

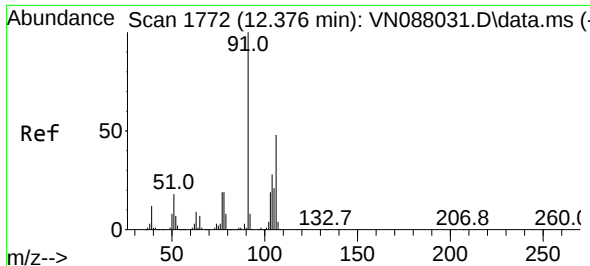
Tgt Ion: 98 Resp: 430391
Ion Ratio Lower Upper
98 100
100 66.0 53.1 79.7



#67
m/p-Xylenes
Concen: 0.206 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion:106 Resp: 1560
Ion Ratio Lower Upper
106 100
91 154.2 161.4 242.0#

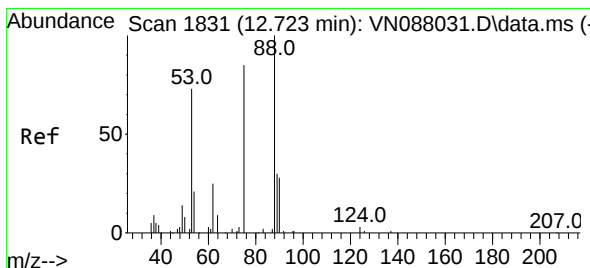
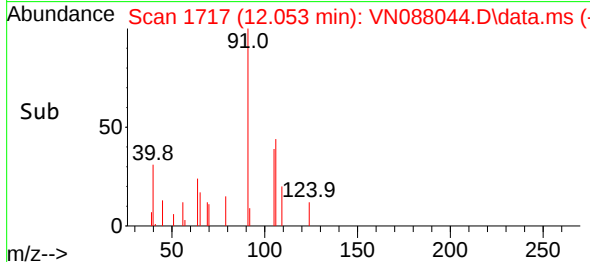
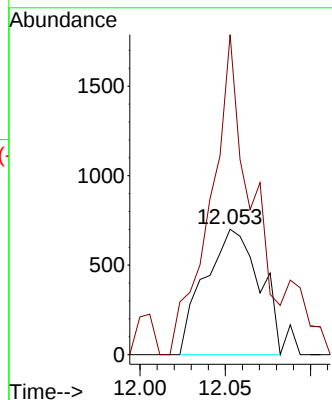
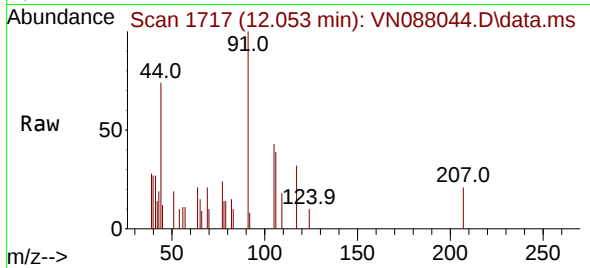




#68
o-Xylene
Concen: 0.207 ug/l
RT: 12.053 min Scan# 11
Delta R.T. -0.323 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

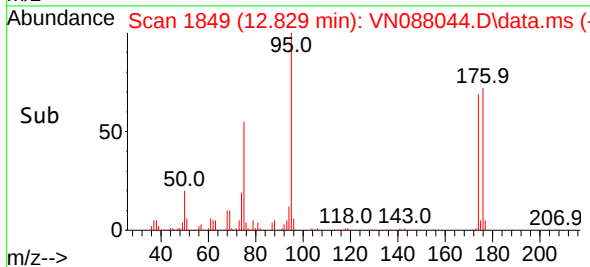
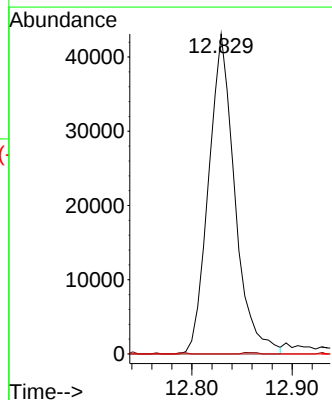
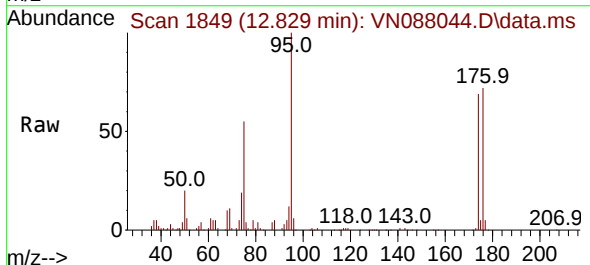
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

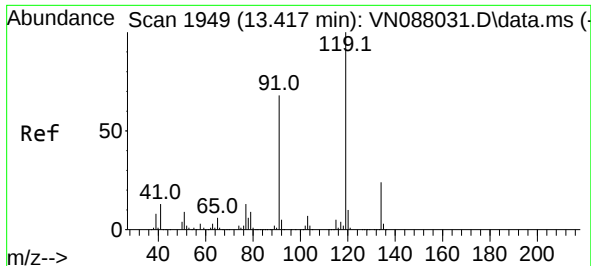
Tgt Ion:106 Resp: 1560
Ion Ratio Lower Upper
106 100
91 154.2 105.2 315.6



#77
t-1,4-Dichloro-2-butene
Concen: 33.893 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.106 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 75 Resp: 78599
Ion Ratio Lower Upper
75 100
53 0.0 41.8 125.3#
89 0.0 19.9 59.6#





#79

tert-butylbenzene

Concen: 0.454 ug/l

RT: 13.706 min Scan# 1949

Delta R.T. 0.288 min

Lab File: VN088044.D

Acq: 08 Oct 2025 16:23

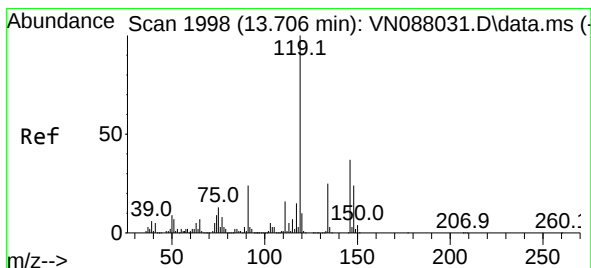
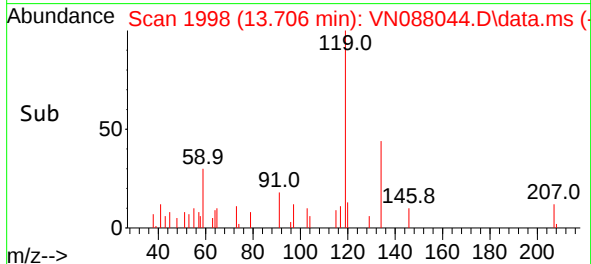
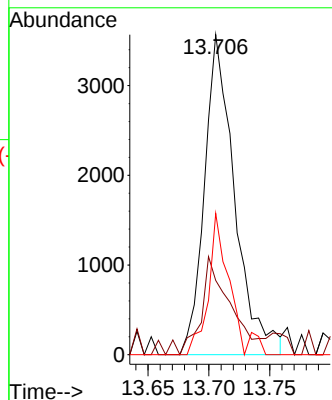
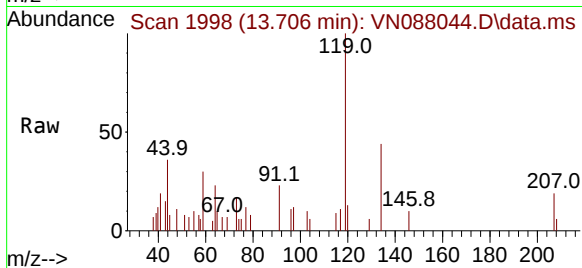
Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(OCT)

Tgt Ion:	119	Resp:	6185
Ion	Ratio	Lower	Upper
119	100		
91	27.9	0.0	132.4
134	28.5	0.0	48.6



#82

p-Isopropyltoluene

Concen: 0.379 ug/l

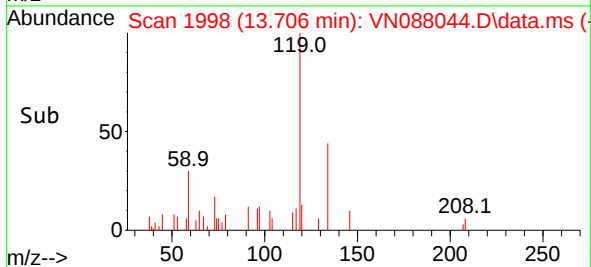
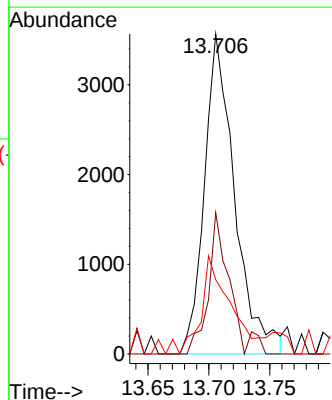
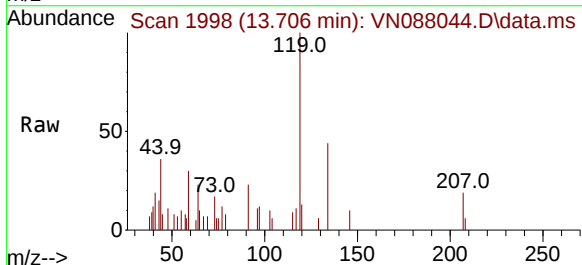
RT: 13.706 min Scan# 1998

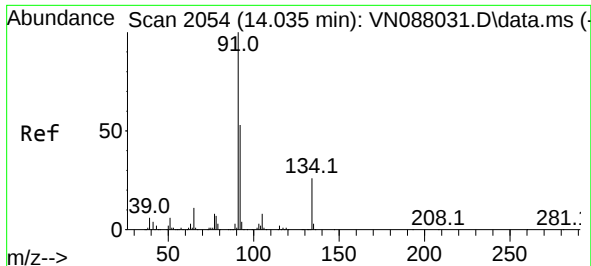
Delta R.T. 0.000 min

Lab File: VN088044.D

Acq: 08 Oct 2025 16:23

Tgt Ion:	119	Resp:	6185
Ion	Ratio	Lower	Upper
119	100		
134	28.5	0.0	52.6
91	27.9	0.0	48.2

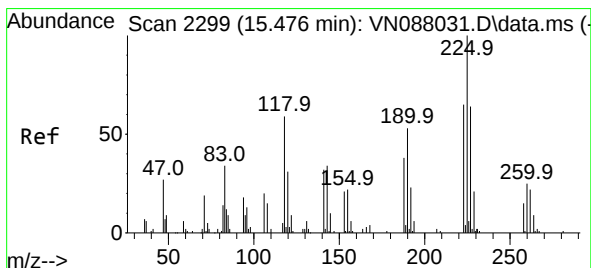
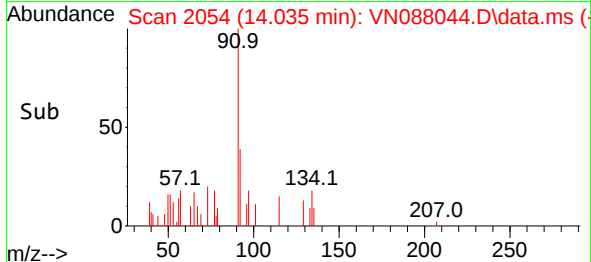
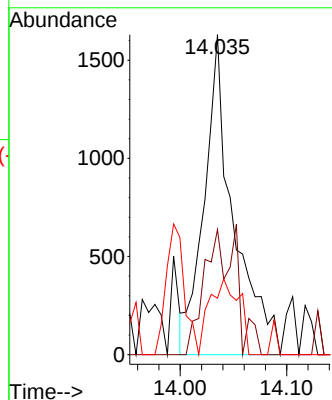
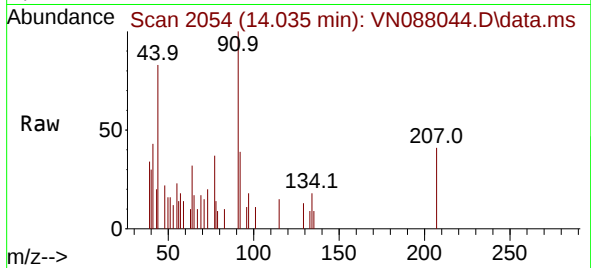




#85
n-Butylbenzene
Concen: 0.204 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(OCT)

Tgt Ion: 91	Resp:	3105
Ion Ratio	Lower	Upper
91	100	
92	26.5	0.0 107.6
134	20.4	0.0 52.6



#90
Hexachlorobutadiene
Concen: 0.223 ug/l
RT: 15.482 min Scan# 2300
Delta R.T. 0.006 min
Lab File: VN088044.D
Acq: 08 Oct 2025 16:23

Tgt Ion: 225	Resp:	386
Ion Ratio	Lower	Upper
225	100	
223	82.1	0.0 129.6
227	44.6	0.0 132.2

