

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086875.D
 Acq On : 06 Jun 2025 18:42
 Operator : JC\MD
 Sample : Q2237-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-WTS-10

Quant Time: Jun 07 02:28:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

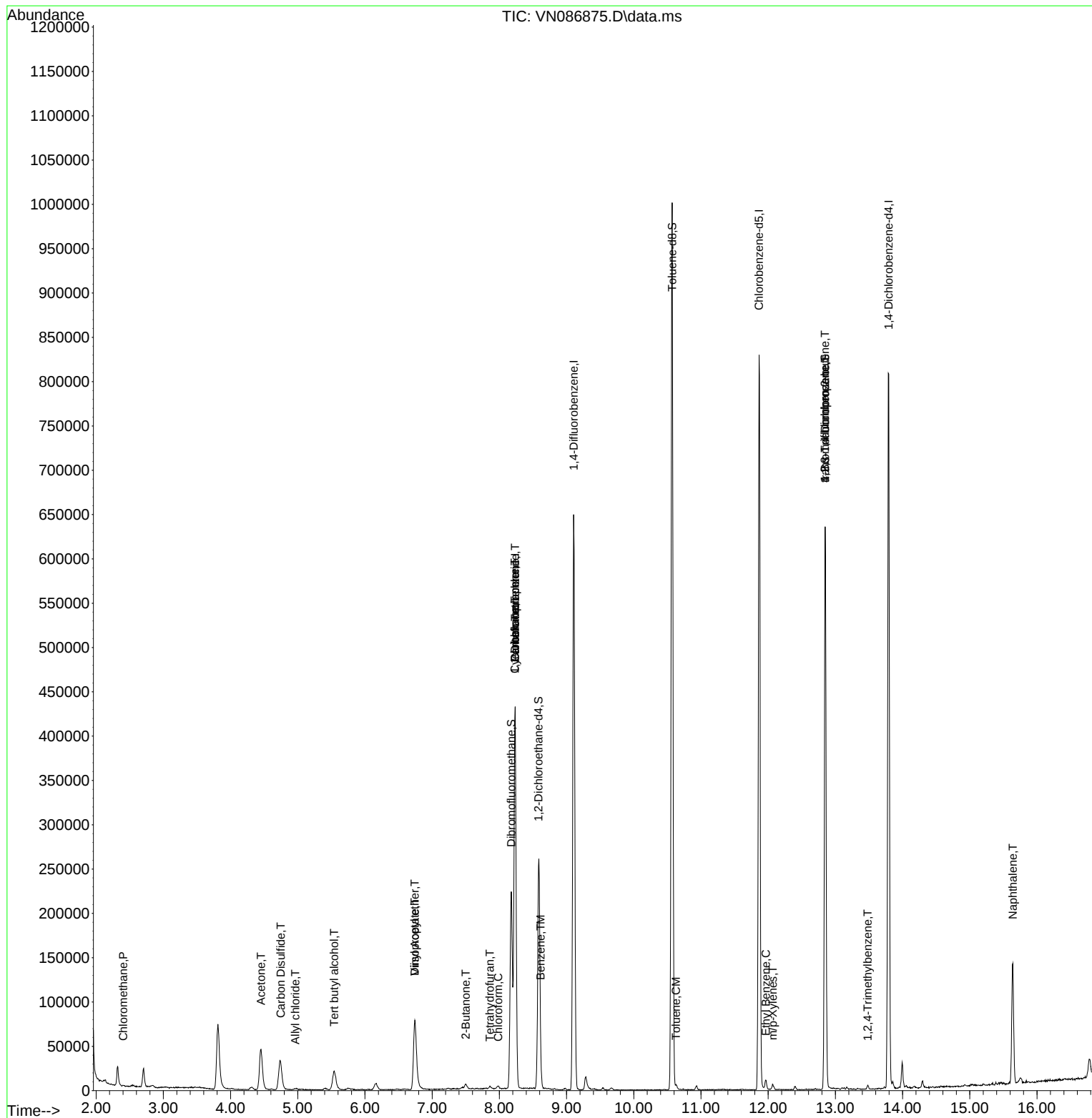
Internal Standards						
1) Pentafluorobenzene	8.235	168	335826	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	595271	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	514382	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	237388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	212375	47.233	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.460%
35) Dibromofluoromethane	8.177	113	172709	48.958	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.920%
50) Toluene-d8	10.571	98	718532	51.451	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.900%
62) 4-Bromofluorobenzene	12.847	95	249738	48.133	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.260%
Target Compounds						
					Qvalue	
3) Chloromethane	2.401	50	963	0.223	ug/l	100
11) Tert butyl alcohol	5.542	59	45098	36.964	ug/l	98
14) Allyl chloride	4.965	41	2108	0.340	ug/l #	33
16) Acetone	4.453	43	92129	38.638	ug/l	100
17) Carbon Disulfide	4.747	76	2450	0.237	ug/l #	75
22) Diisopropyl ether	6.741	45	6194	0.474	ug/l #	1
23) Vinyl Acetate	6.741	43	15320	1.388	ug/l #	69
25) 2-Butanone	7.500	43	9042	2.333	ug/l	98
29) Tetrahydrofuran	7.859	42	1934	0.766	ug/l #	80
30) Chloroform	7.983	83	3307	0.440	ug/l	90
31) Cyclohexane	8.230	56	6482	0.889	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	26741	5.087	ug/l #	48
38) Carbon Tetrachloride	8.235	117	32734	6.343	ug/l #	17
40) Benzene	8.612	78	3933	0.229	ug/l	99
52) Toluene	10.629	92	2157	0.205	ug/l	99
67) Ethyl Benzene	11.965	91	8464	0.433	ug/l	94
68) m/p-Xylenes	12.071	106	1942	0.260	ug/l	82
76) 1,2,3-Trichloropropane	12.847	75	119692	21.211	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	119692	48.828	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.482	105	3221	0.225	ug/l	98
95) Naphthalene	15.641	128	135924	7.628	ug/l	100

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

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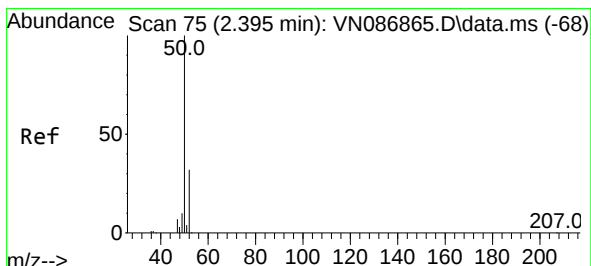
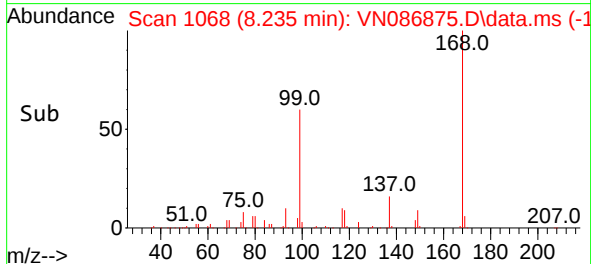
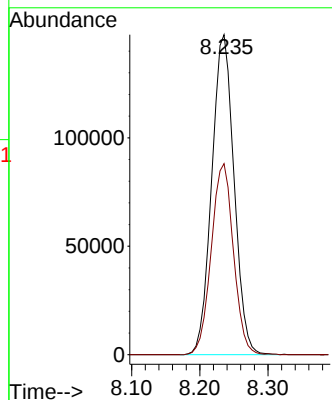
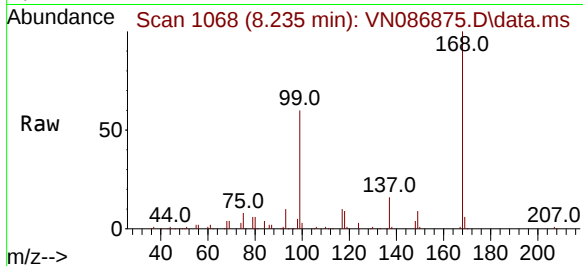




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

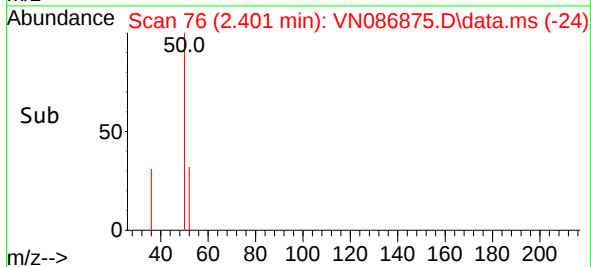
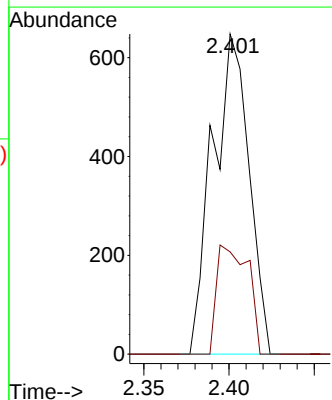
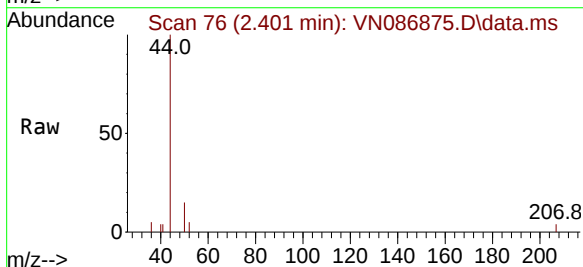
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

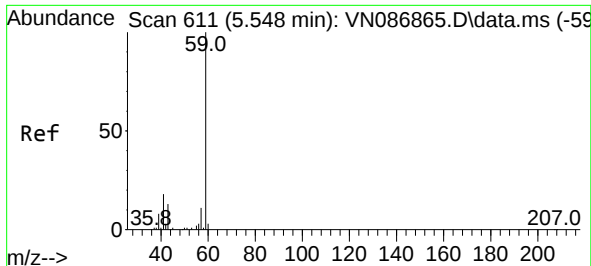
Tgt Ion:168 Resp: 335826
Ion Ratio Lower Upper
168 100
99 59.7 49.1 73.7



#3
Chloromethane
Concen: 0.223 ug/l
RT: 2.401 min Scan# 76
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 50 Resp: 963
Ion Ratio Lower Upper
50 100
52 31.9 25.7 38.5

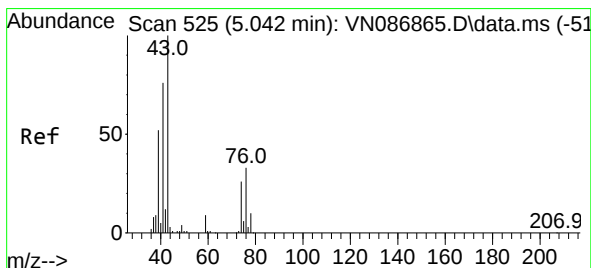
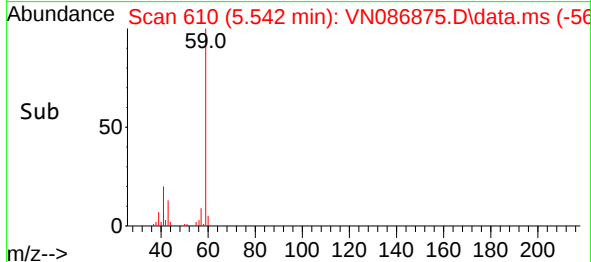
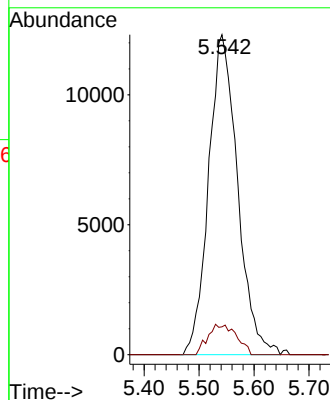
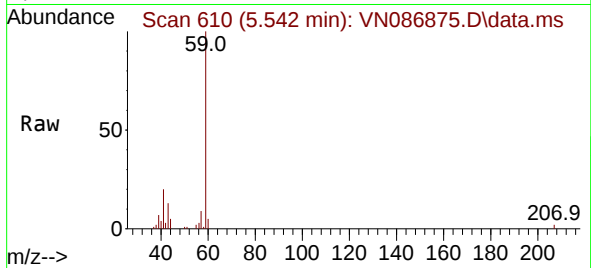




#11
Tert butyl alcohol
Concen: 36.964 ug/l
RT: 5.542 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

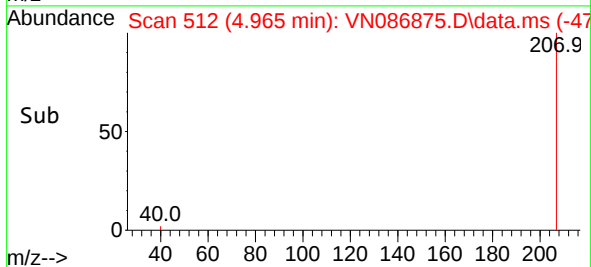
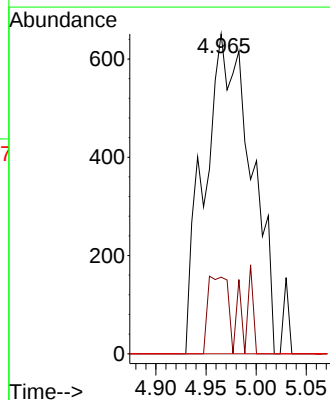
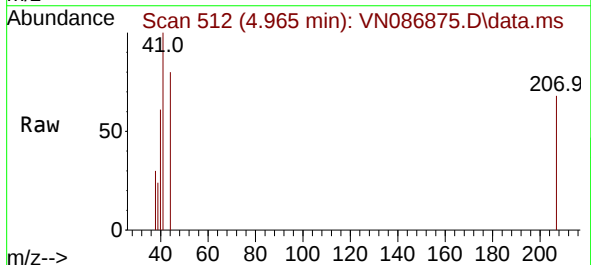
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

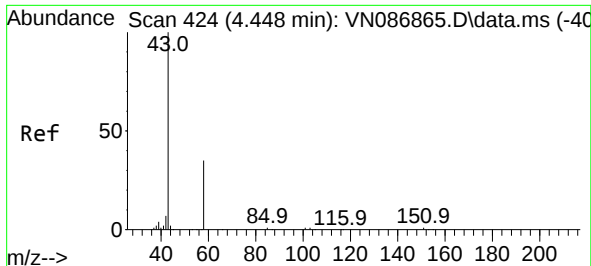
Tgt Ion: 59 Resp: 45098
Ion Ratio Lower Upper
59 100
57 9.3 8.1 12.1



#14
Allyl chloride
Concen: 0.340 ug/l
RT: 4.965 min Scan# 512
Delta R.T. -0.077 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 41 Resp: 2108
Ion Ratio Lower Upper
41 100
39 10.3 51.3 76.9#
76 0.0 31.4 47.0#

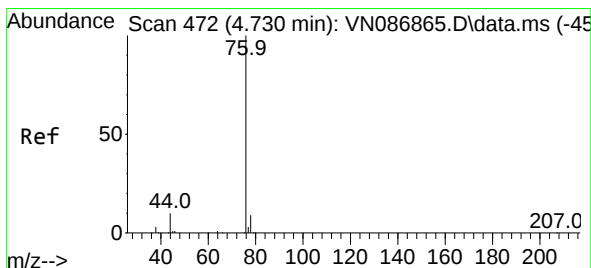
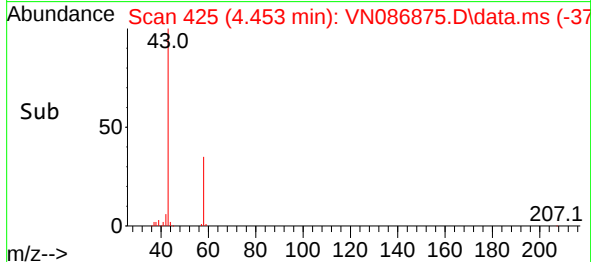
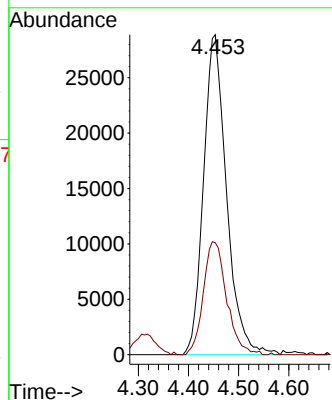
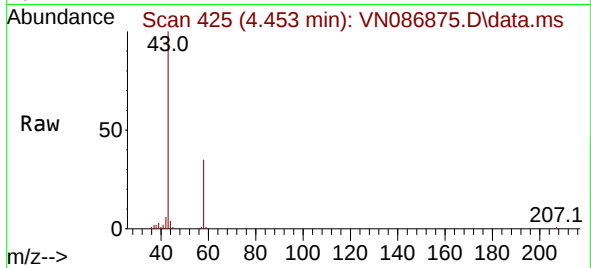




#16
Acetone
Concen: 38.638 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

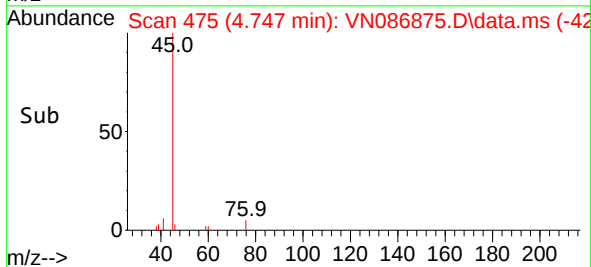
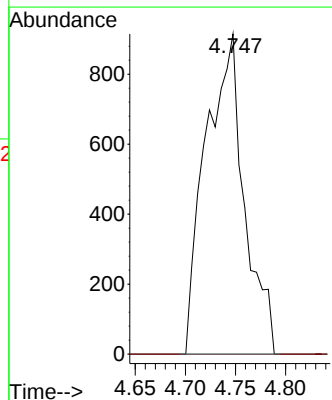
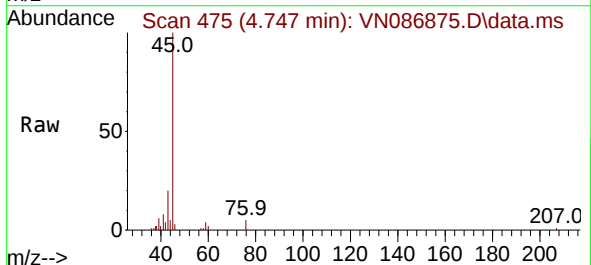
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

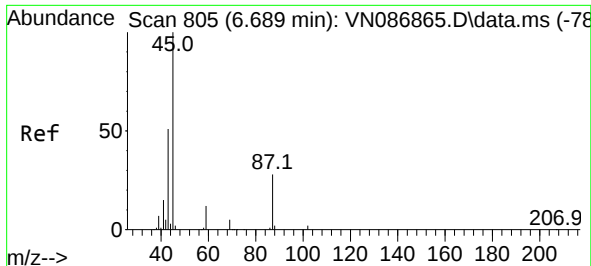
Tgt Ion: 43 Resp: 92129
Ion Ratio Lower Upper
43 100
58 35.0 28.0 42.0



#17
Carbon Disulfide
Concen: 0.237 ug/l
RT: 4.747 min Scan# 475
Delta R.T. 0.018 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 76 Resp: 2450
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

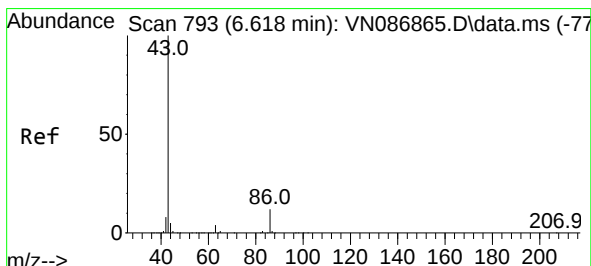
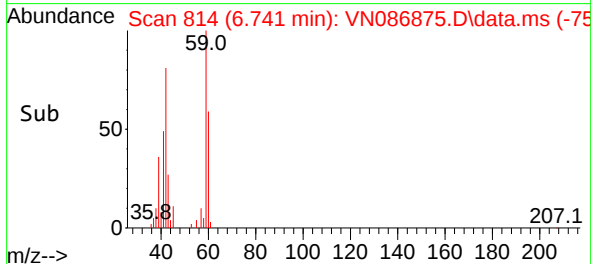
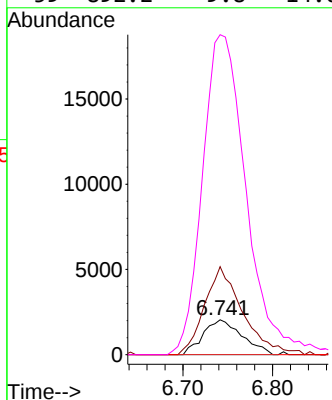
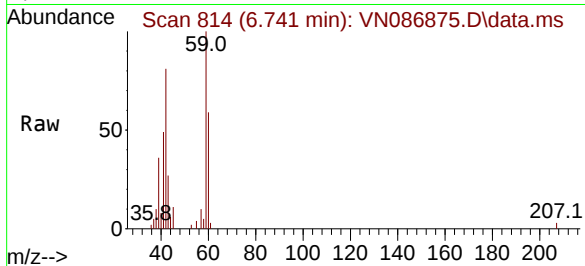




#22
Diisopropyl ether
Concen: 0.474 ug/l
RT: 6.741 min Scan# 814
Delta R.T. 0.053 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

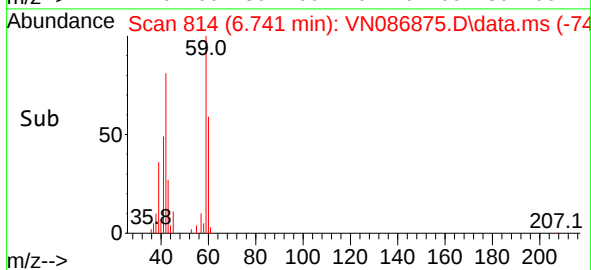
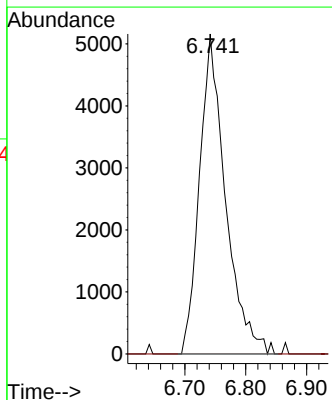
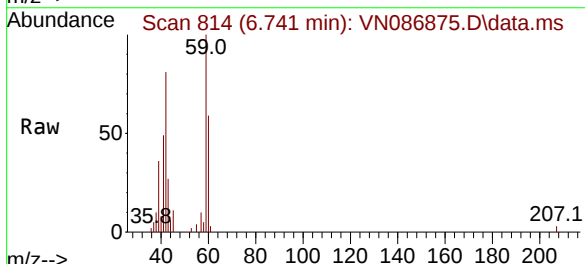
Instrument :
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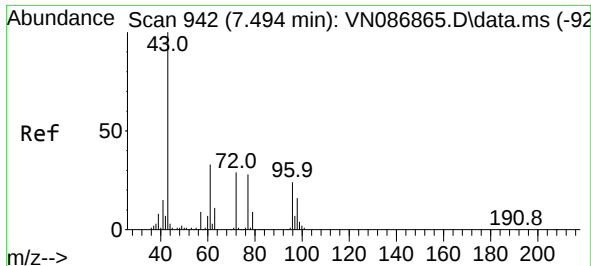
Tgt Ion:	45	Resp:	6194
Ion	Ratio	Lower	Upper
45	100		
43	251.6	41.9	62.9#
87	0.0	22.4	33.6#
59	892.2	9.8	14.6#



#23
Vinyl Acetate
Concen: 1.388 ug/l
RT: 6.741 min Scan# 814
Delta R.T. 0.123 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion:	43	Resp:	15320
Ion	Ratio	Lower	Upper
43	100		
86	0.0	9.5	14.3#

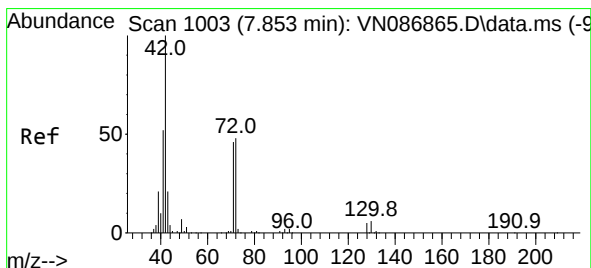
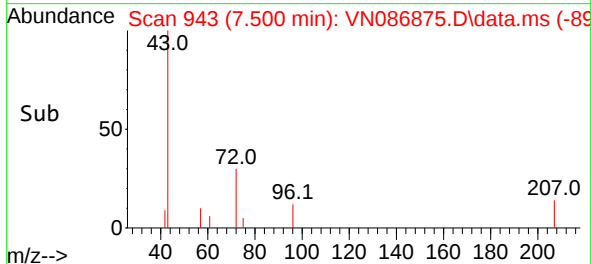
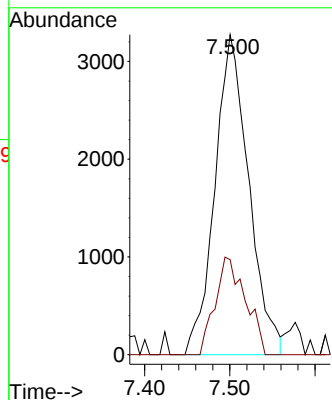
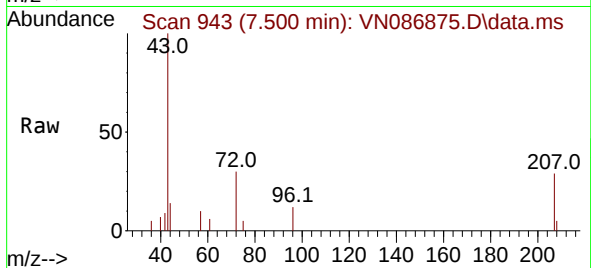




#25
2-Butanone
Concen: 2.333 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

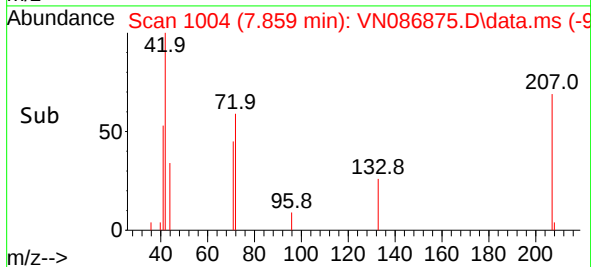
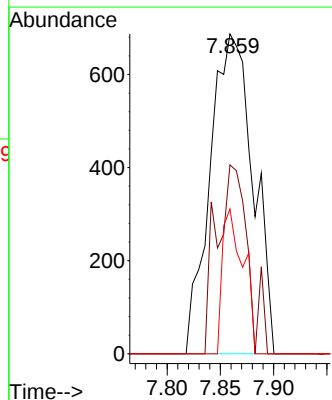
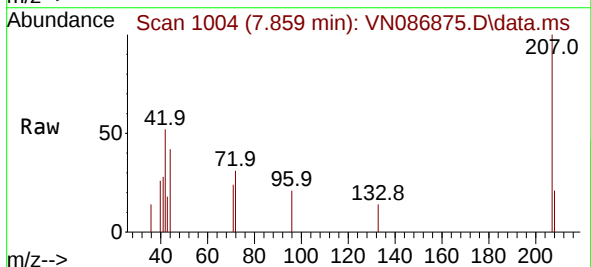
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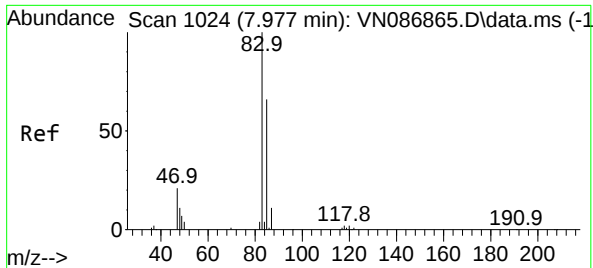
Tgt Ion: 43 Resp: 9042
Ion Ratio Lower Upper
43 100
72 29.7 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.766 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 42 Resp: 1934
Ion Ratio Lower Upper
42 100
72 42.7 37.8 56.6
71 22.1 35.6 53.4#

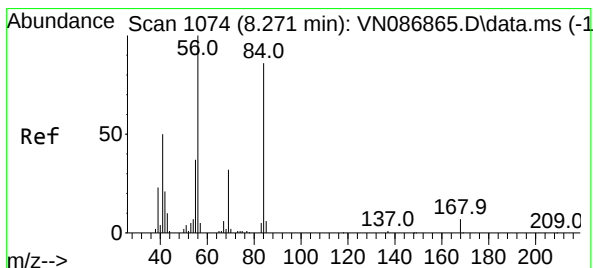
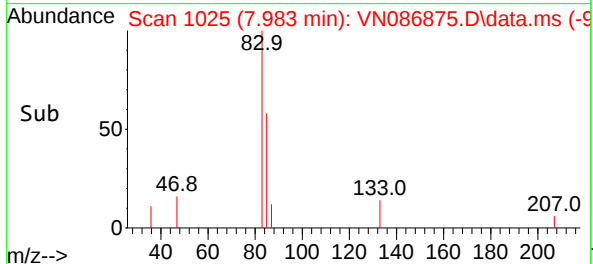
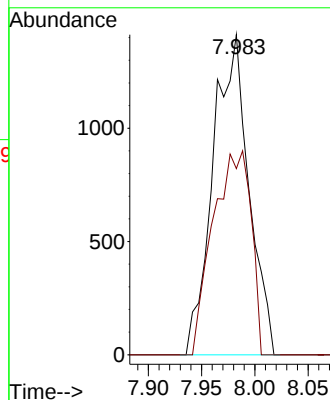
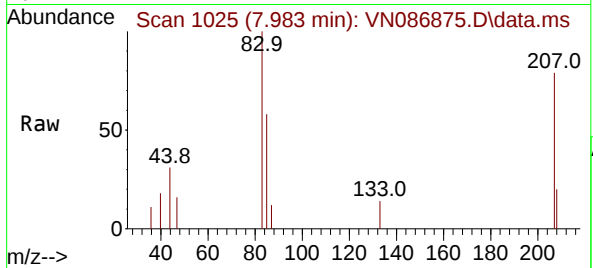




#30
Chloroform
Concen: 0.440 ug/l
RT: 7.983 min Scan# 1025
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

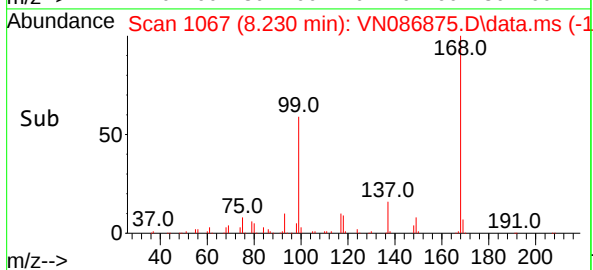
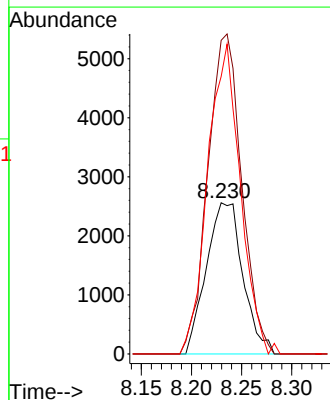
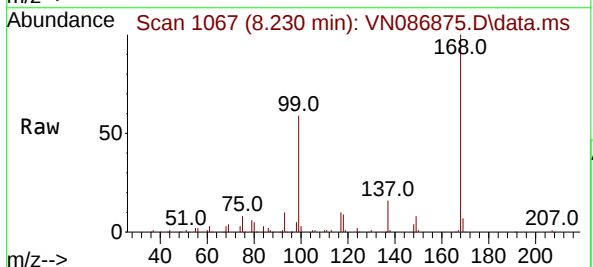
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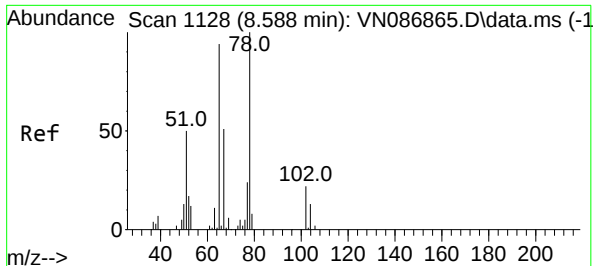
Tgt Ion: 83 Resp: 3307
Ion Ratio Lower Upper
83 100
85 58.2 52.9 79.3



#31
Cyclohexane
Concen: 0.889 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 56 Resp: 6482
Ion Ratio Lower Upper
56 100
69 207.4 25.4 38.0#
84 183.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 47.233 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN086875.D

Acq: 06 Jun 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

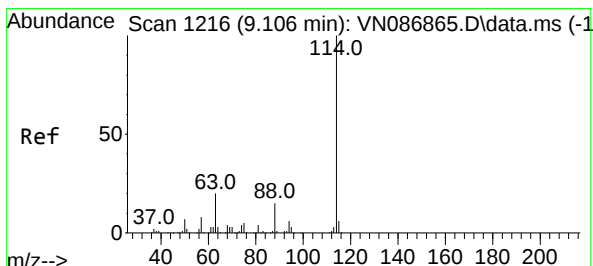
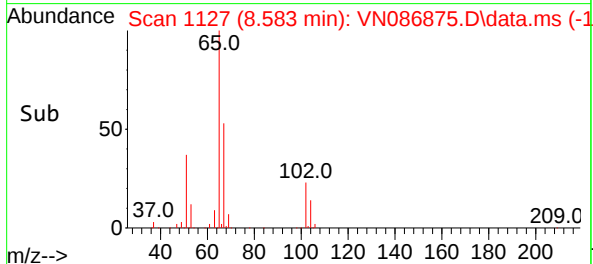
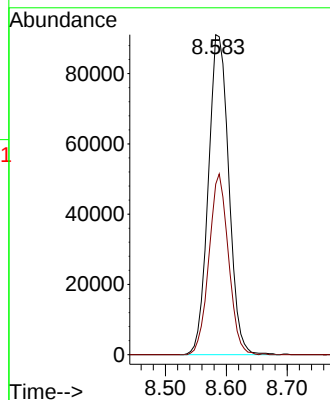
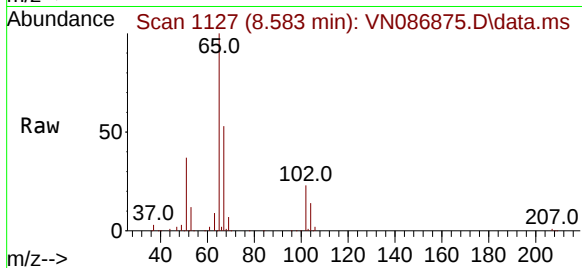
TW-WTS-10

Tgt Ion: 65 Resp: 212375

Ion Ratio Lower Upper

65 100

67 53.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086875.D

Acq: 06 Jun 2025 18:42

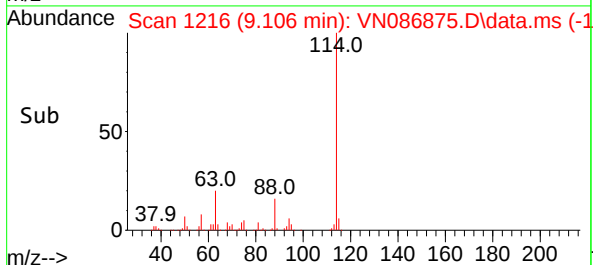
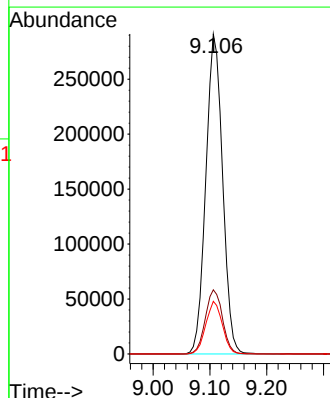
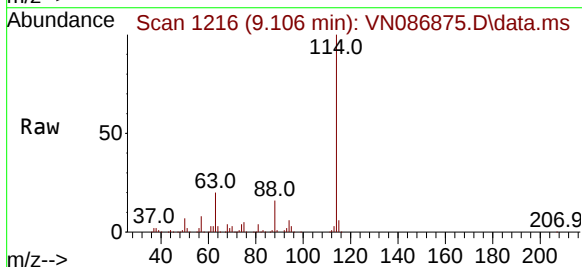
Tgt Ion: 114 Resp: 595271

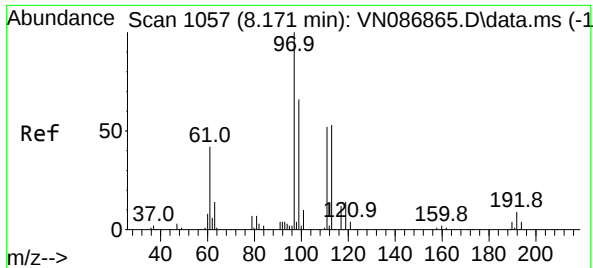
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

88 16.4 0.0 30.2

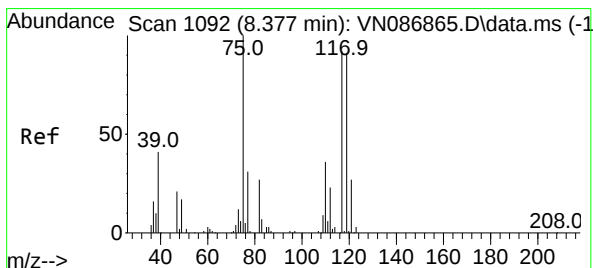
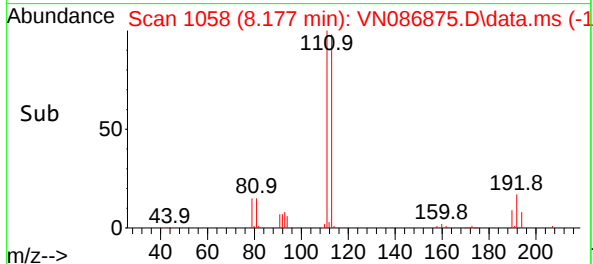
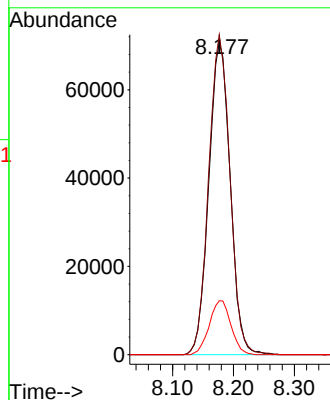
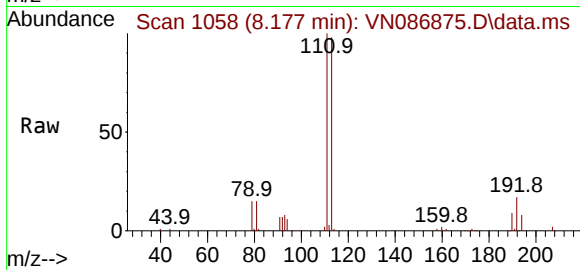




#35
Dibromofluoromethane
Concen: 48.958 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

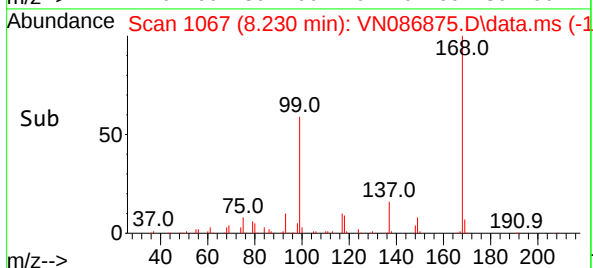
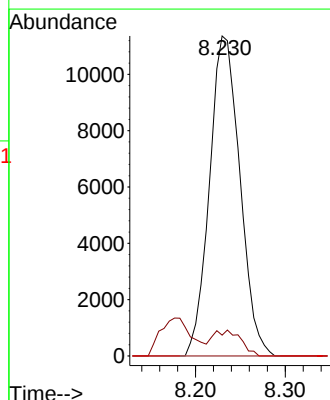
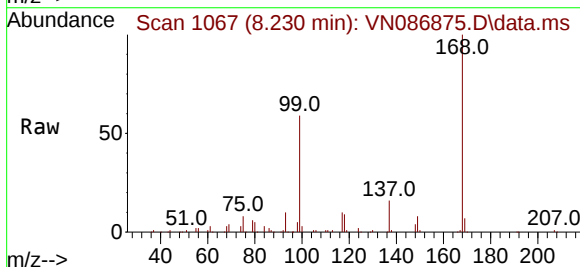
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

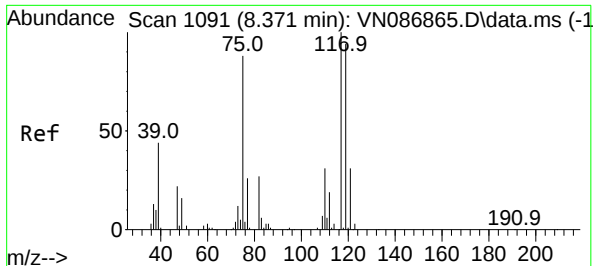
Tgt Ion:113 Resp: 172709
Ion Ratio Lower Upper
113 100
111 101.9 84.2 126.2
192 17.5 14.2 21.4



#36
1,1-Dichloropropene
Concen: 5.087 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 75 Resp: 26741
Ion Ratio Lower Upper
75 100
110 7.4 17.6 52.9#
77 0.0 25.3 37.9#

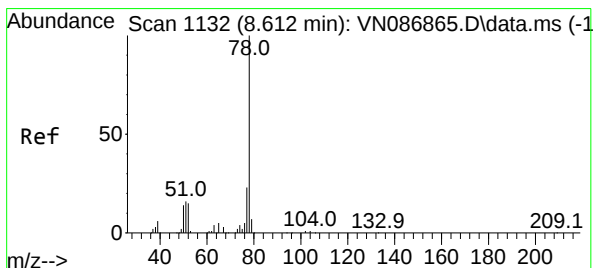
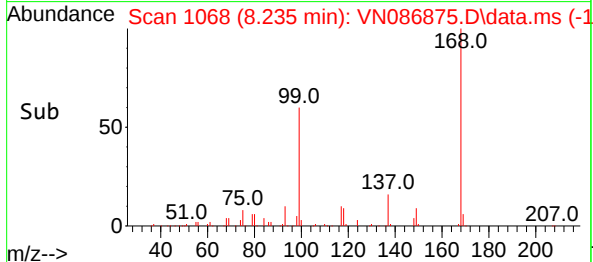
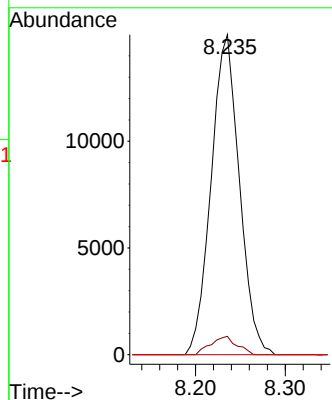
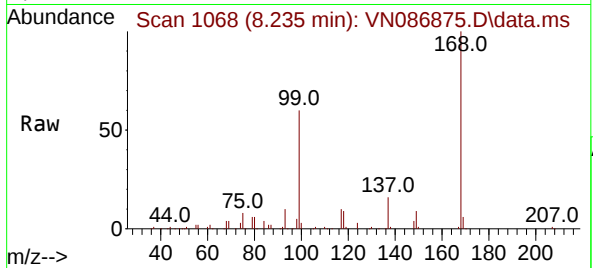




#38
Carbon Tetrachloride
Concen: 6.343 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

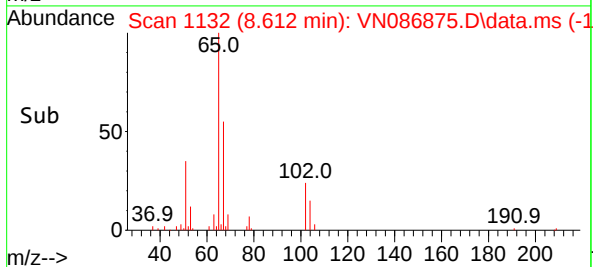
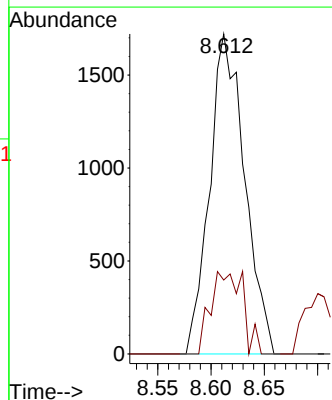
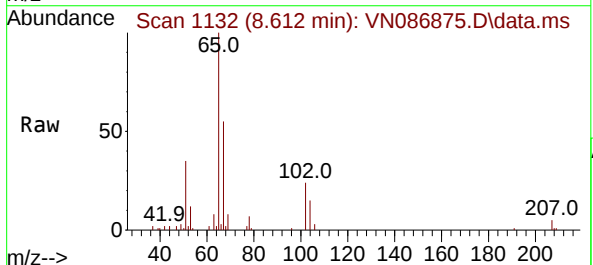
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

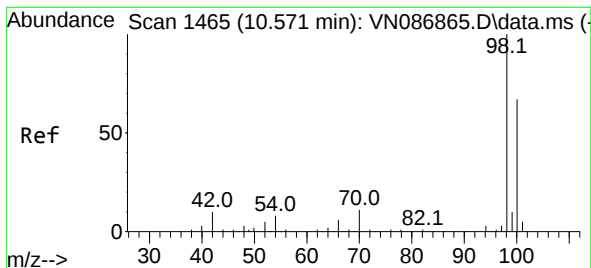
Tgt Ion:117 Resp: 32734
Ion Ratio Lower Upper
117 100
119 5.8 75.0 112.6#
121 0.0 24.9 37.3#



#40
Benzene
Concen: 0.229 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 78 Resp: 3933
Ion Ratio Lower Upper
78 100
77 23.1 18.7 28.1

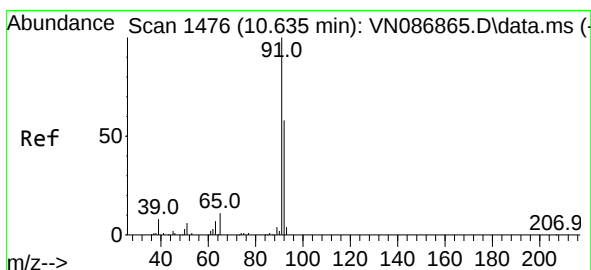
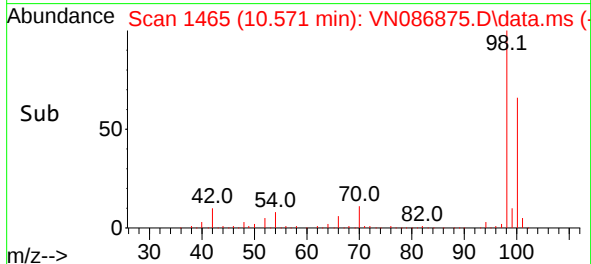
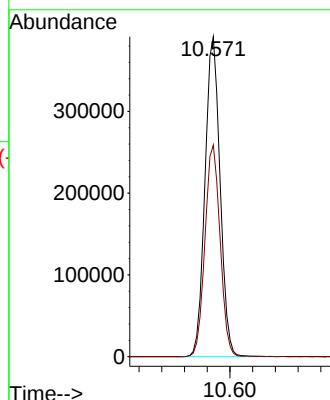
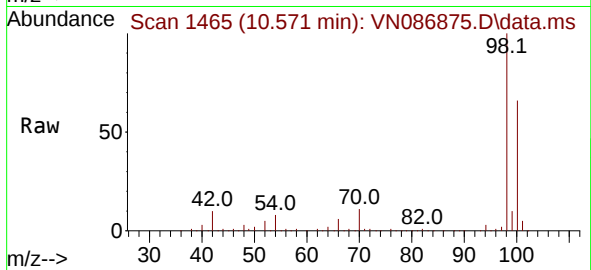




#50
Toluene-d8
Concen: 51.451 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

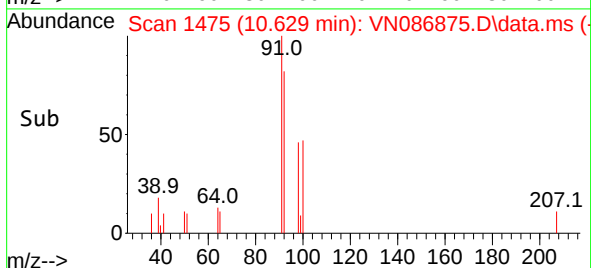
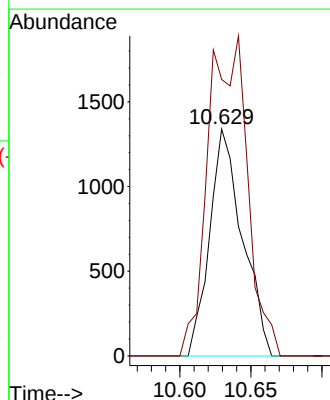
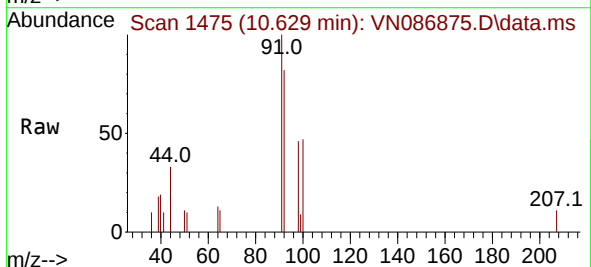
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

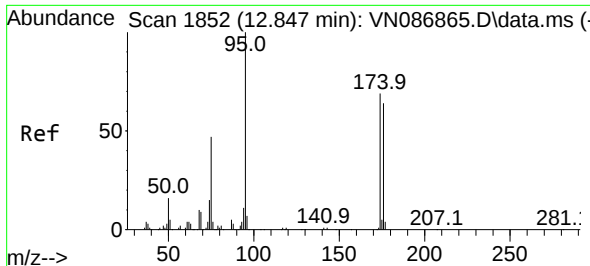
Tgt Ion: 98 Resp: 718532
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.0



#52
Toluene
Concen: 0.205 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 92 Resp: 2157
Ion Ratio Lower Upper
92 100
91 168.7 136.5 204.7

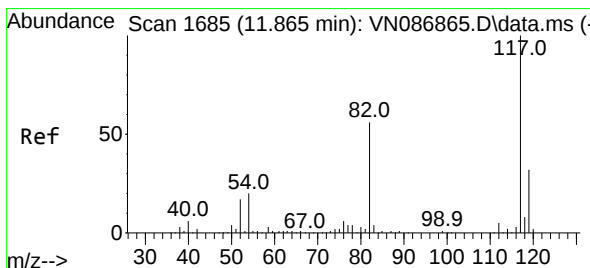
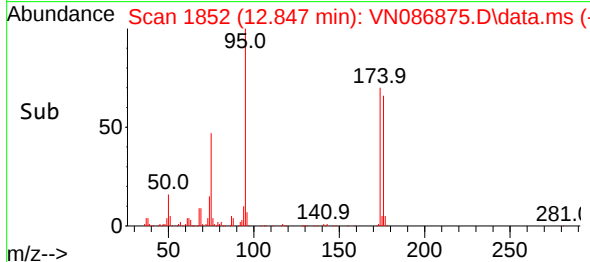
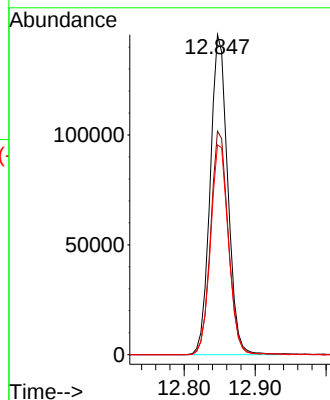
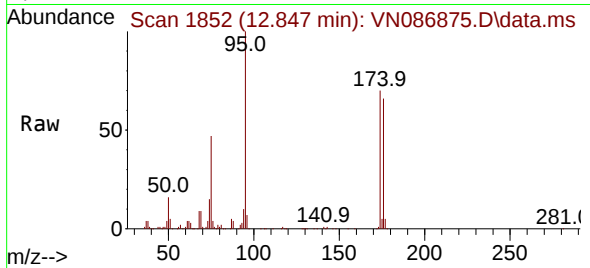




#62
4-Bromofluorobenzene
Concen: 48.133 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

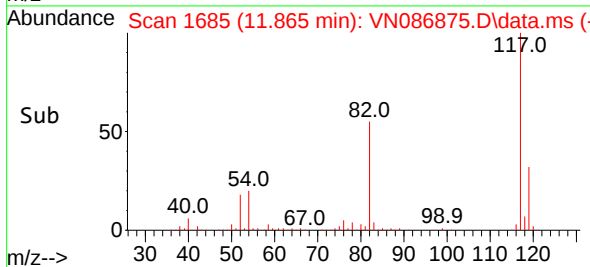
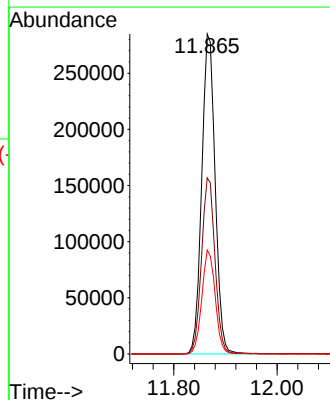
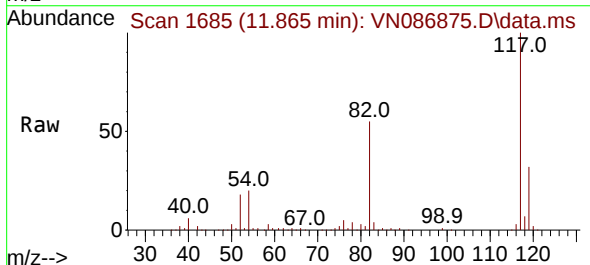
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

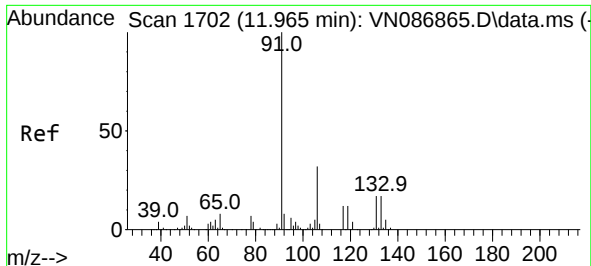
Tgt Ion: 95 Resp: 249738
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.8
176 67.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 117 Resp: 514382
Ion Ratio Lower Upper
117 100
82 55.1 44.6 67.0
119 32.5 25.5 38.3

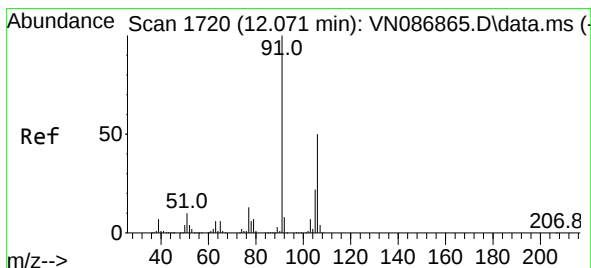
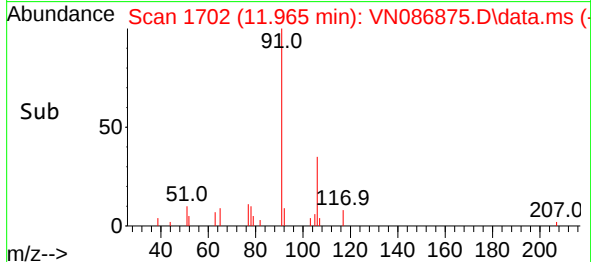
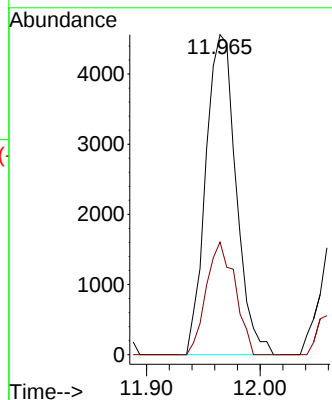
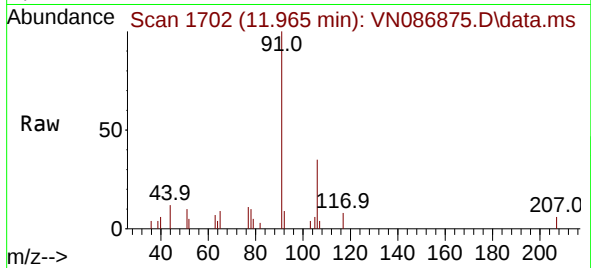




#67
Ethyl Benzene
Concen: 0.433 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

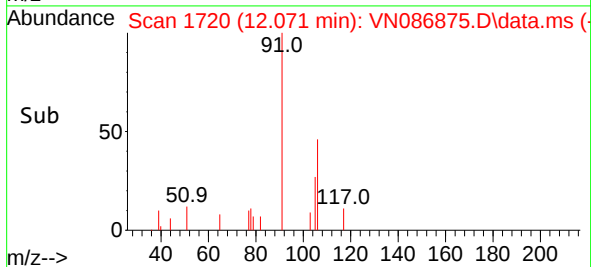
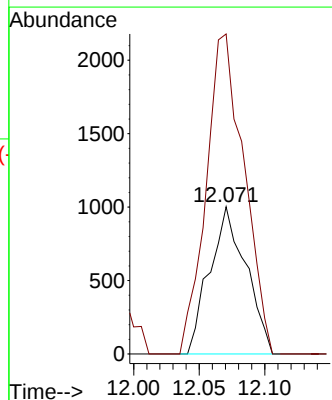
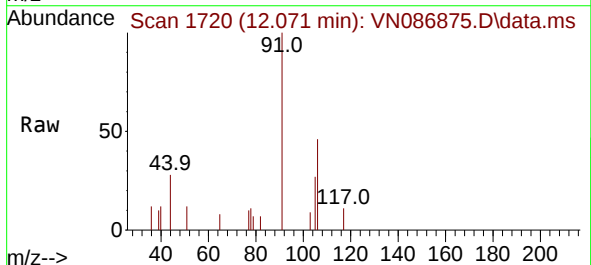
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

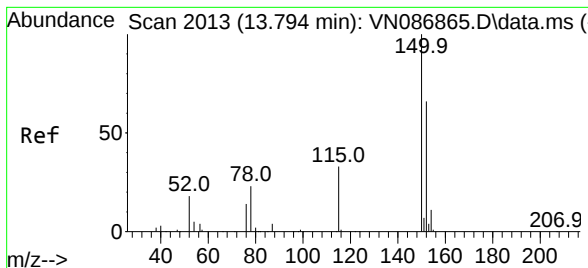
Tgt Ion: 91 Resp: 8464
Ion Ratio Lower Upper
91 100
106 35.2 25.4 38.2



#68
m/p-Xylenes
Concen: 0.260 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Tgt Ion: 106 Resp: 1942
Ion Ratio Lower Upper
106 100
91 226.0 159.4 239.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN086875.D

Acq: 06 Jun 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

TW-WTS-10

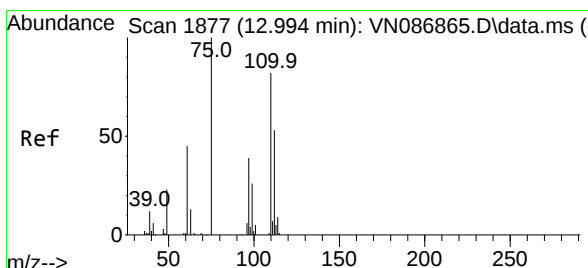
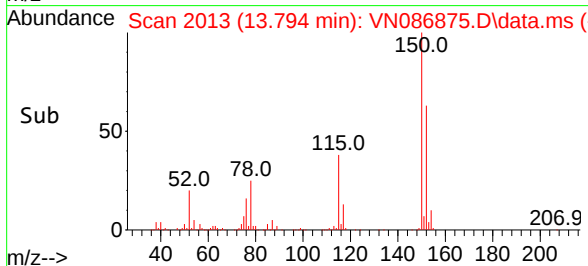
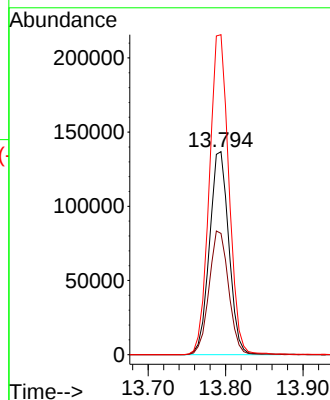
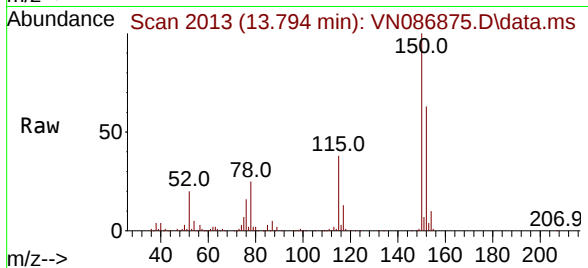
Tgt Ion:152 Resp: 237388

Ion Ratio Lower Upper

152 100

115 61.6 30.1 90.5

150 159.5 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 21.211 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086875.D

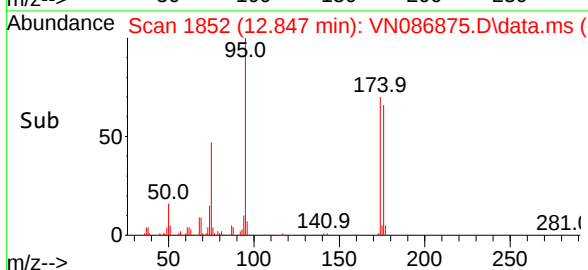
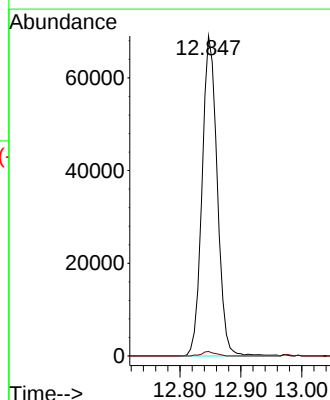
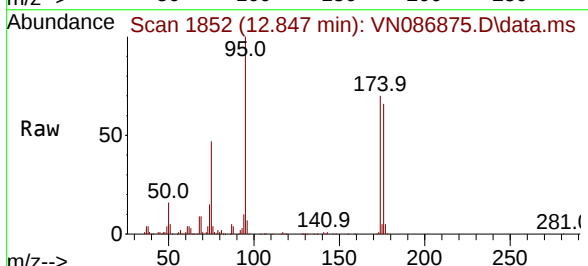
Acq: 06 Jun 2025 18:42

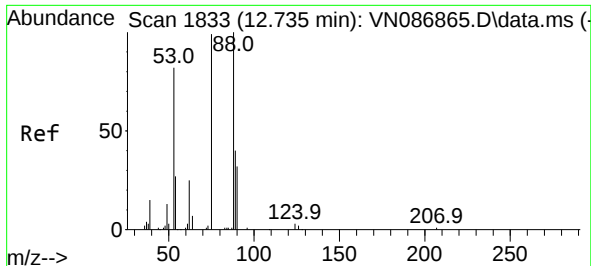
Tgt Ion: 75 Resp: 119692

Ion Ratio Lower Upper

75 100

77 1.3 79.3 237.9#

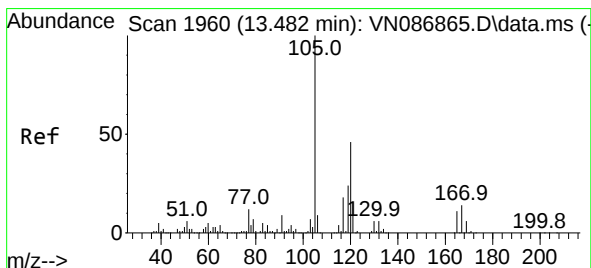
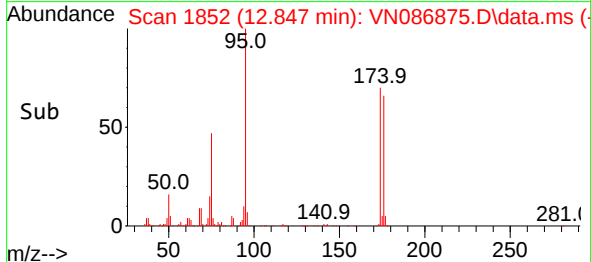
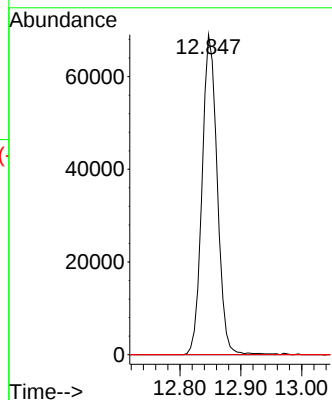
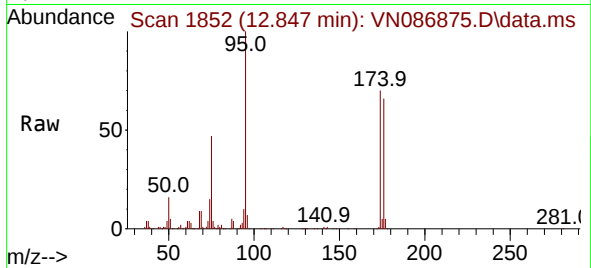




#81
trans-1,4-Dichloro-2-butene
Concen: 48.828 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

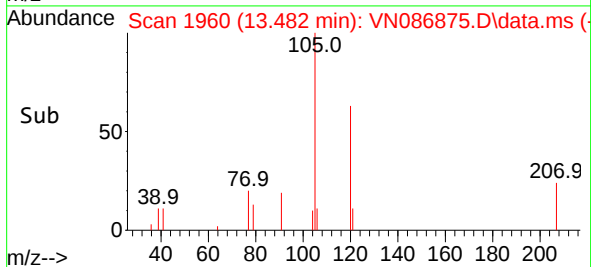
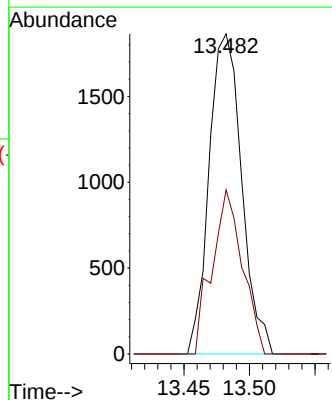
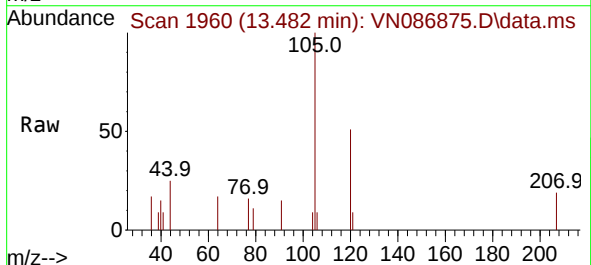
Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10

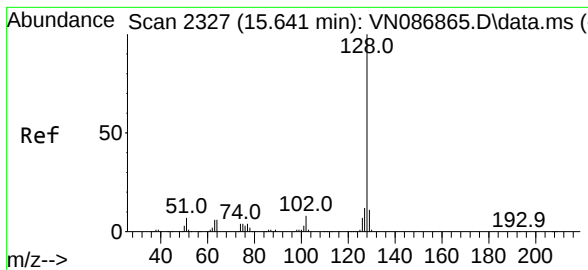
Tgt Ion: 75 Resp: 119692
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.225 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

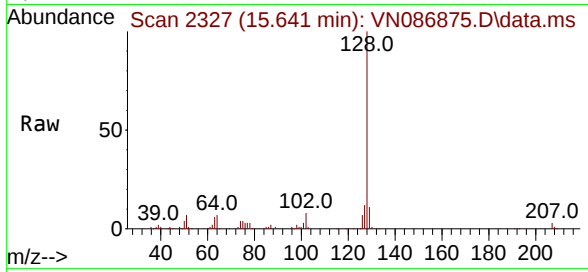
Tgt Ion:105 Resp: 3221
Ion Ratio Lower Upper
105 100
120 47.9 23.2 69.6





#95
Naphthalene
Concen: 7.628 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086875.D
Acq: 06 Jun 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :
TW-WTS-10



Tgt Ion:128 Resp: 135924

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.8	13.2

