Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
Data File : VN086830.D
Acq On : 30 May 2025 13:25
Operator : JC\MD
Sample : PB168191ZHE#01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Quant Time: May 31 03:46:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 30 02:22:52 2025
Response via : Initial Calibration

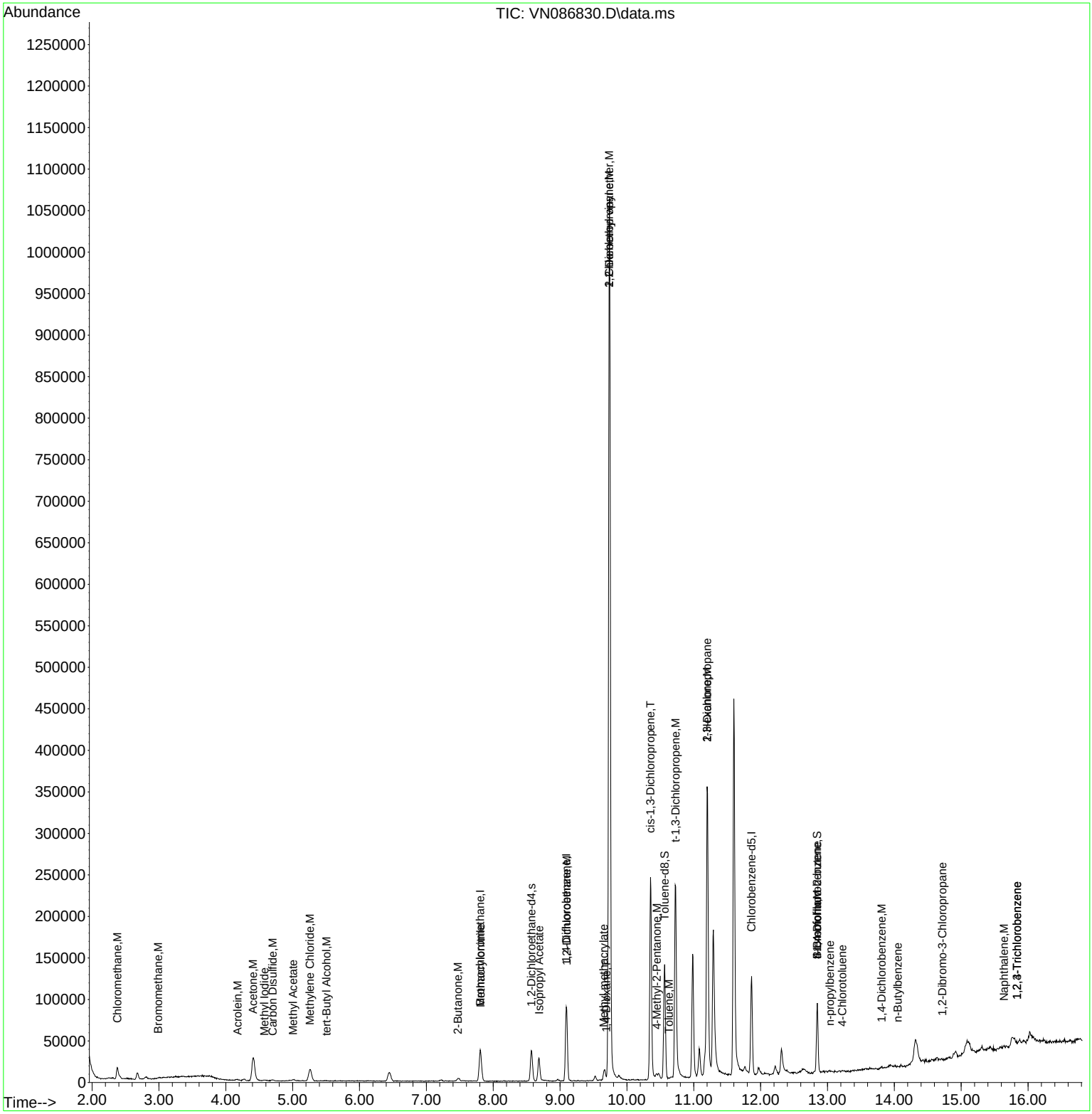
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.806	128	14598	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	85610	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	71137	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	31011	30.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.067%			
60) 4-Bromofluorobenzene	12.847	95	32509	29.107	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.033%			
63) Toluene-d8	10.565	98	97706	29.924	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	24733	19.348	ug/l	90
5) Bromomethane	2.989	94	216	0.347	ug/l #	76
11) Methyl Iodide	4.577	142	218	0.215	ug/l #	67
12) Methyl Acetate	5.006	43	1282	1.341	ug/l #	68
13) Acrolein	4.177	56	796	8.059	ug/l #	75
15) Acetone	4.406	58	18023	159.992	ug/l	89
16) Carbon Disulfide	4.700	76	1052	0.419	ug/l #	75
18) Methylene Chloride	5.259	84	12191	12.194	ug/l	93
23) tert-Butyl Alcohol	5.506	59	171	1.197	ug/l #	100
30) 2-Butanone	7.471	43	2554	4.631	ug/l #	57
35) Methacrylonitrile	7.812	41	198	0.313	ug/l #	25
36) 1,2-Dichloroethane	9.100	62	2269	1.891	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1470	1.491	ug/l #	44
44) Isopropyl Acetate	8.688	43	32348	16.710	ug/l #	86
45) 1,4-Dioxane	9.694	88	951	55.270	ug/l #	75
46) Methyl methacrylate	9.653	41	772	0.865	ug/l #	16
48) t-1,3-Dichloropropene	10.729	75	910	0.630	ug/l #	64
49) cis-1,3-Dichloropropene	10.353	75	52495	33.039	ug/l #	57
52) 1,3-Dichloropropane	11.200	76	4452	2.762	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.735	63	1470	2.082	ug/l #	44
56) Bromoform	12.847	173	145	0.224	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	2541	2.434	ug/l #	63
59) 2-Hexanone	11.200	43	54090	72.343	ug/l #	1
62) Toluene	10.629	91	895	0.223	ug/l #	58
74) n-propylbenzene	13.035	91	1054	0.227	ug/l #	53
77) t-1,4-Dichloro-2-butene	12.847	75	15198	34.002	ug/l #	14
78) 4-Chlorotoluene	13.223	91	959	0.325	ug/l #	41
84) 1,4-Dichlorobenzene	13.812	146	468	0.263	ug/l #	20
85) n-Butylbenzene	14.053	91	1086	0.402	ug/l #	46
88) 1,2-Dibromo-3-Chloropr...	14.717	75	113	0.576	ug/l #	3
89) 1,2,4-Trichlorobenzene	15.835	180	150	0.208	ug/l #	60
91) Naphthalene	15.641	128	2895	1.150	ug/l #	73
92) 1,2,3-Trichlorobenzene	15.835	180	150	0.208	ug/l #	60

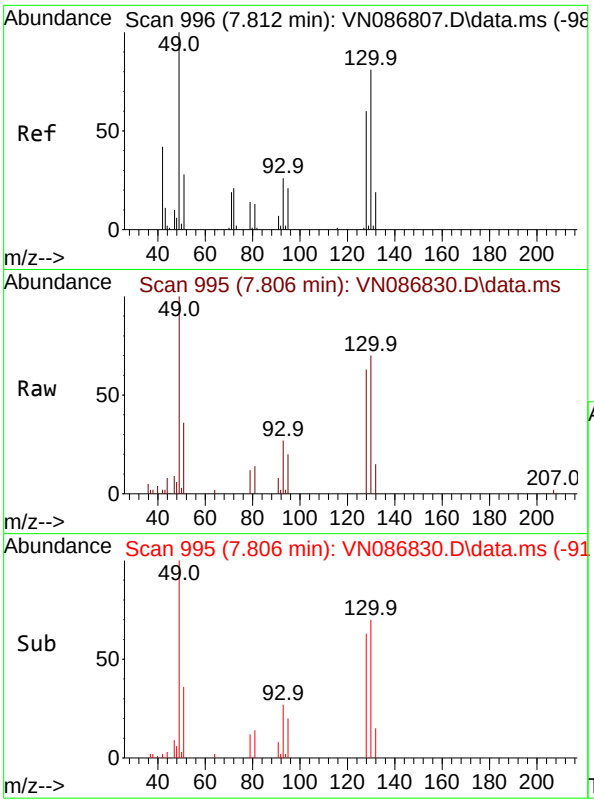
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
Data File : VN086830.D
Acq On : 30 May 2025 13:25
Operator : JC\MD
Sample : PB168191ZHE#01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Quant Time: May 31 03:46:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 30 02:22:52 2025
Response via : Initial Calibration



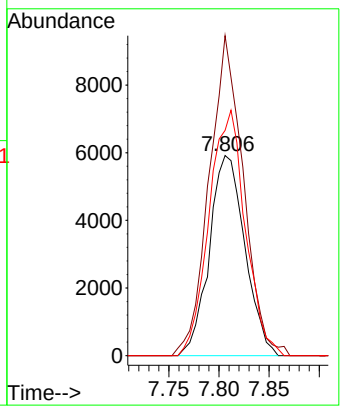


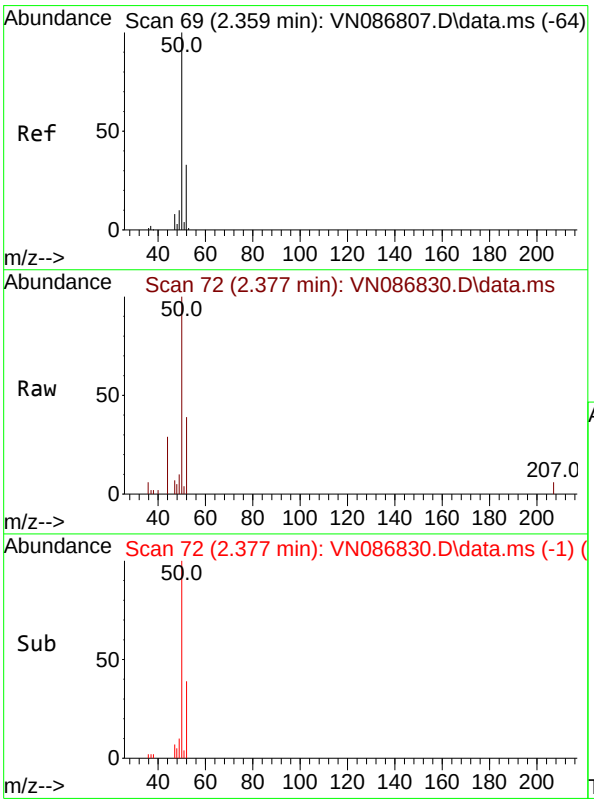
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion:128 Resp: 14598

Ion	Ratio	Lower	Upper
128	100		
49	152.8	0.0	404.5
130	125.2	0.0	322.2

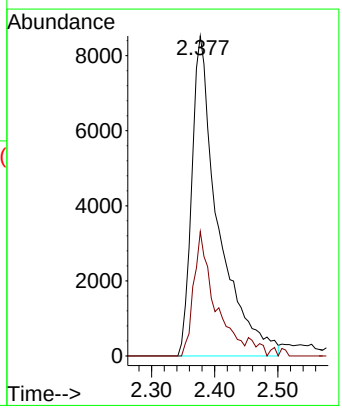


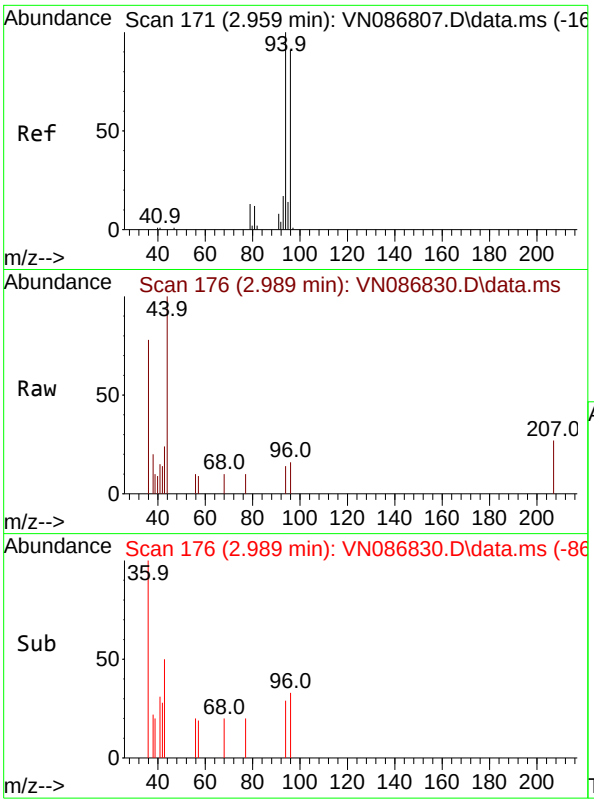


#3
Chloromethane
Concen: 19.348 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 50 Resp: 24733

Ion	Ratio	Lower	Upper
50	100		
52	38.8	26.6	40.0



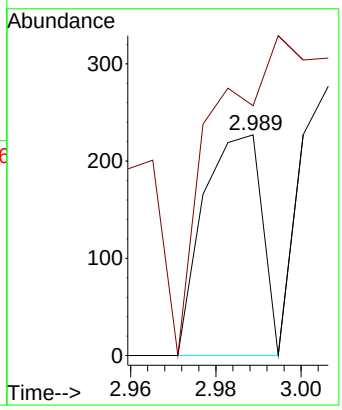


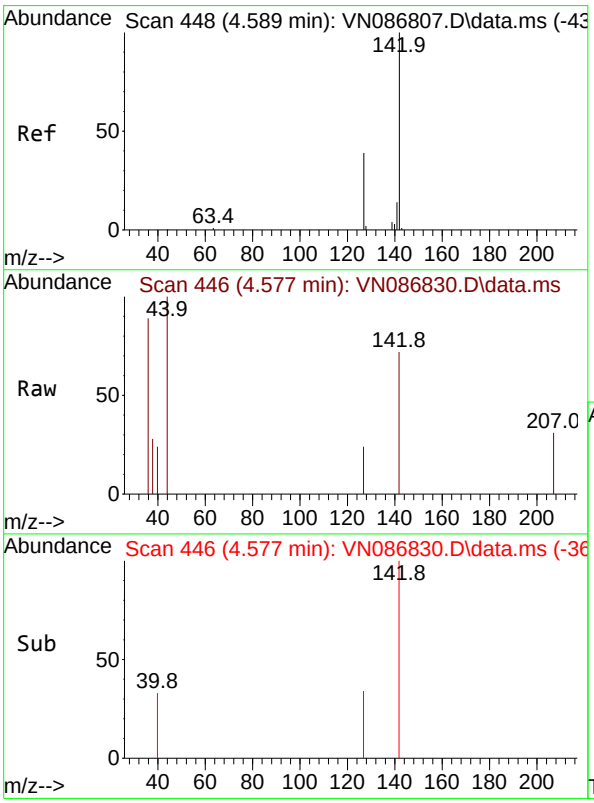
#5
Bromomethane
Concen: 0.347 ug/l
RT: 2.989 min Scan# 1
Delta R.T. 0.029 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 94 Resp: 216

Ion	Ratio	Lower	Upper
94	100		
96	113.2	72.7	109.1#

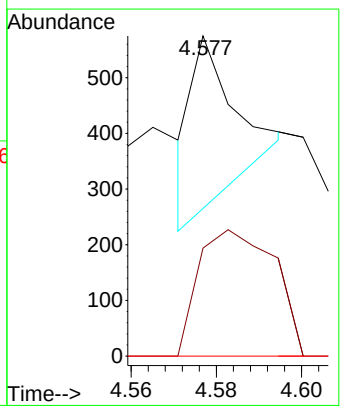


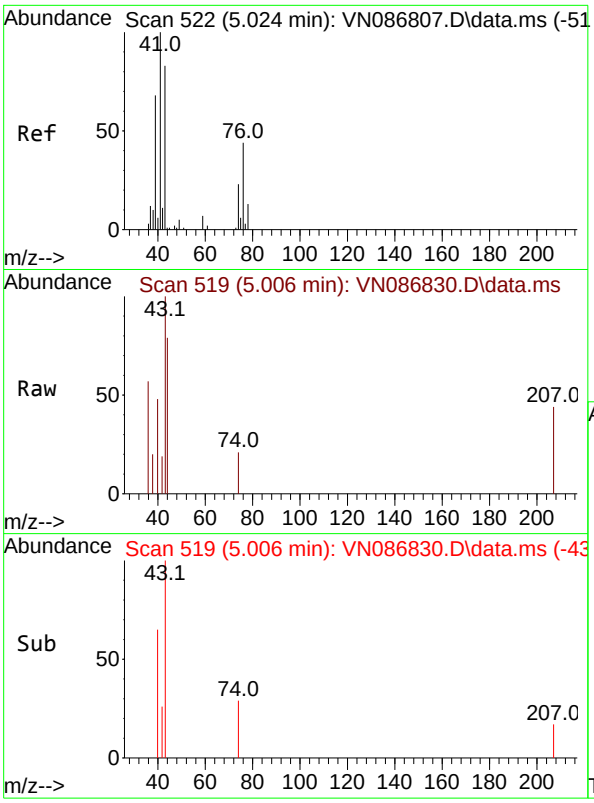


#11
Methyl Iodide
Concen: 0.215 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion:142 Resp: 218

Ion	Ratio	Lower	Upper
142	100		
127	59.1	19.5	58.5#
141	0.0	7.1	21.4#



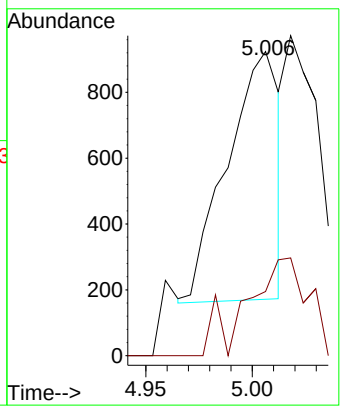


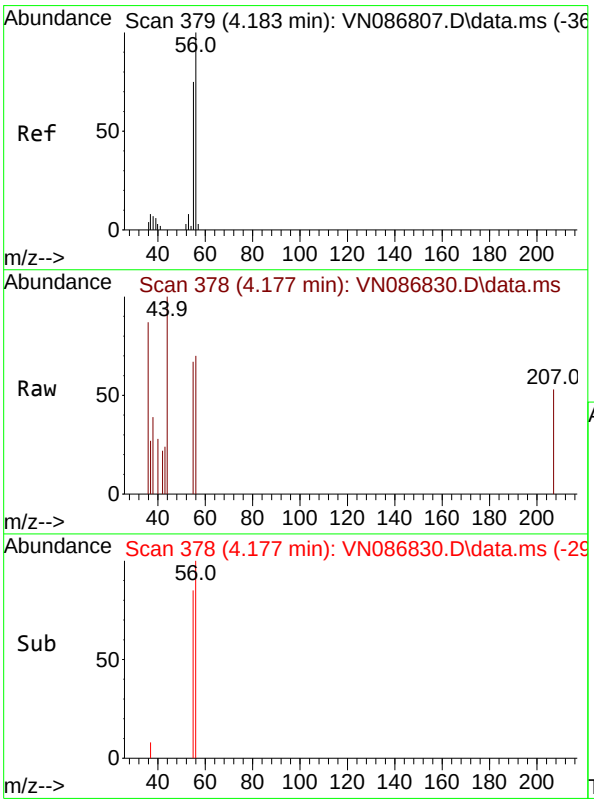
#12
Methyl Acetate
Concen: 1.341 ug/l
RT: 5.006 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 43 Resp: 1282

Ion	Ratio	Lower	Upper
43	100		
74	11.3	22.7	34.1#

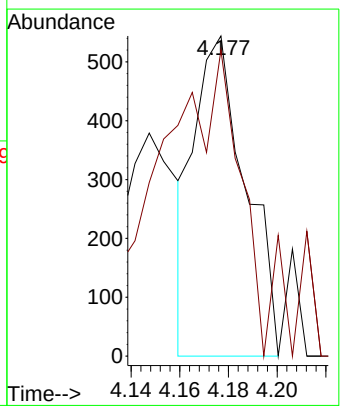


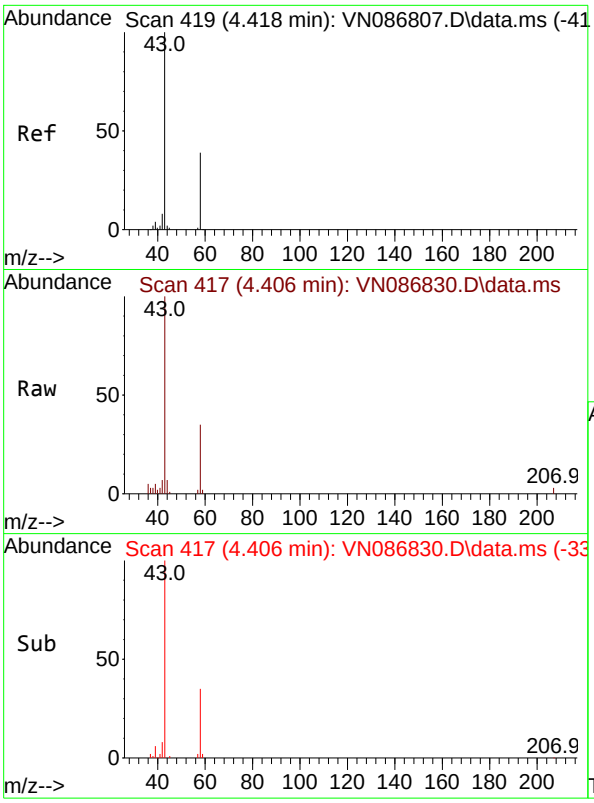


#13
Acrolein
Concen: 8.059 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 56 Resp: 796

Ion	Ratio	Lower	Upper
56	100		
55	49.7	55.9	83.9#



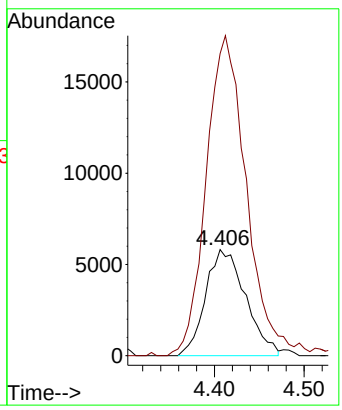


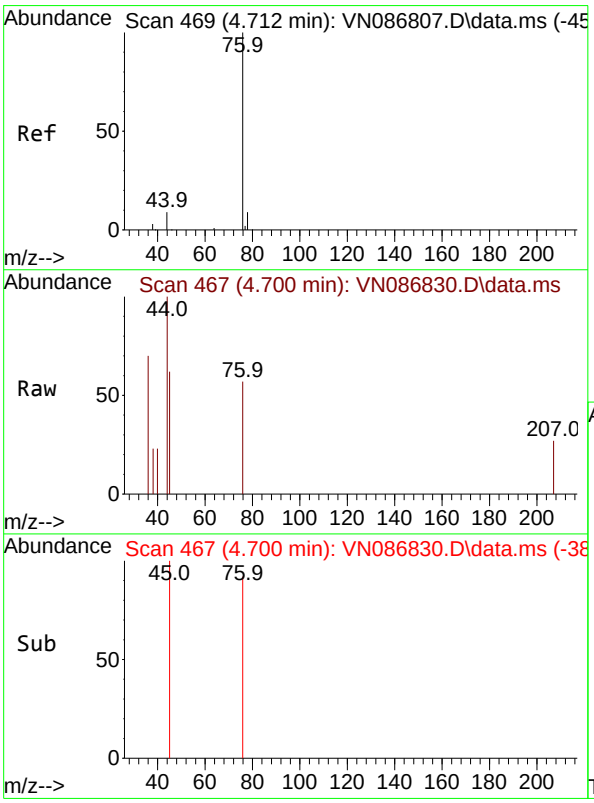
#15
Acetone
Concen: 159.992 ug/l
RT: 4.406 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 58 Resp: 18023

Ion	Ratio	Lower	Upper
58	100		
43	278.4	207.7	311.5

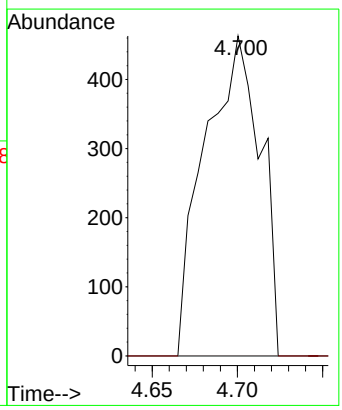


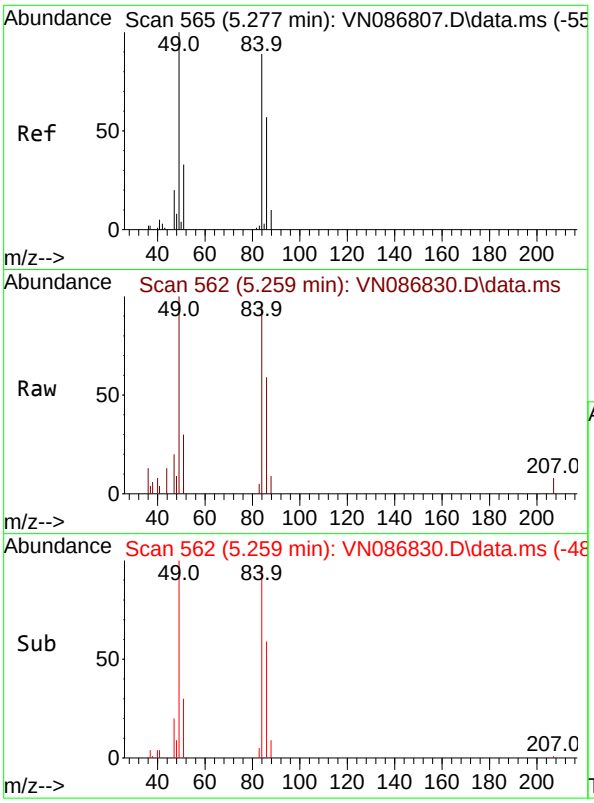


#16
Carbon Disulfide
Concen: 0.419 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 76 Resp: 1052

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.2	10.8#



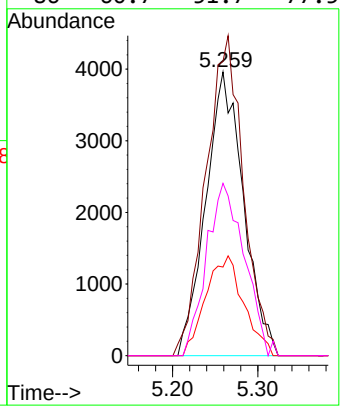


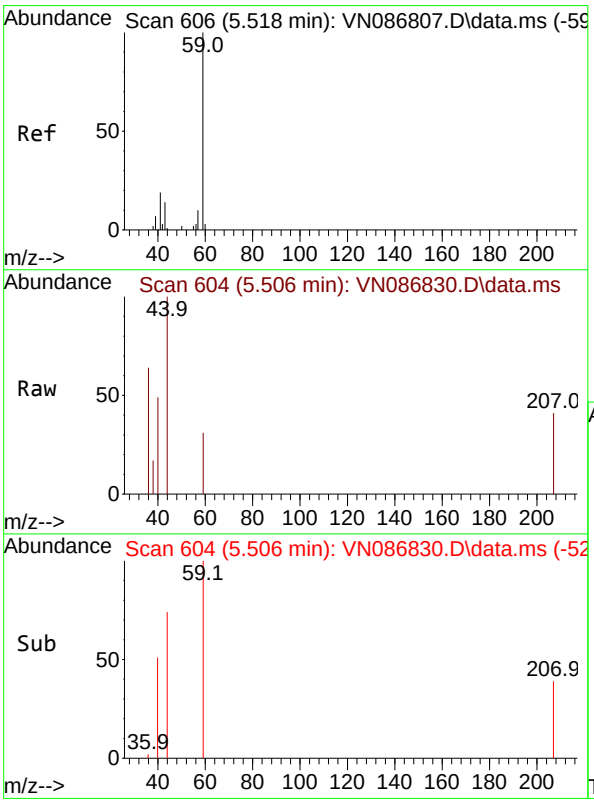
#18
Methylene Chloride
Concen: 12.194 ug/l
RT: 5.259 min Scan# 5
Delta R.T. -0.018 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 84 Resp: 12191

Ion	Ratio	Lower	Upper
84	100		
49	103.7	89.9	134.9
51	31.3	29.6	44.4
86	60.7	51.7	77.5

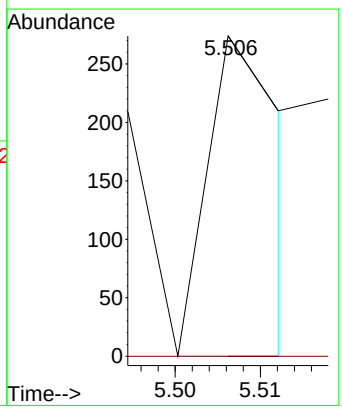


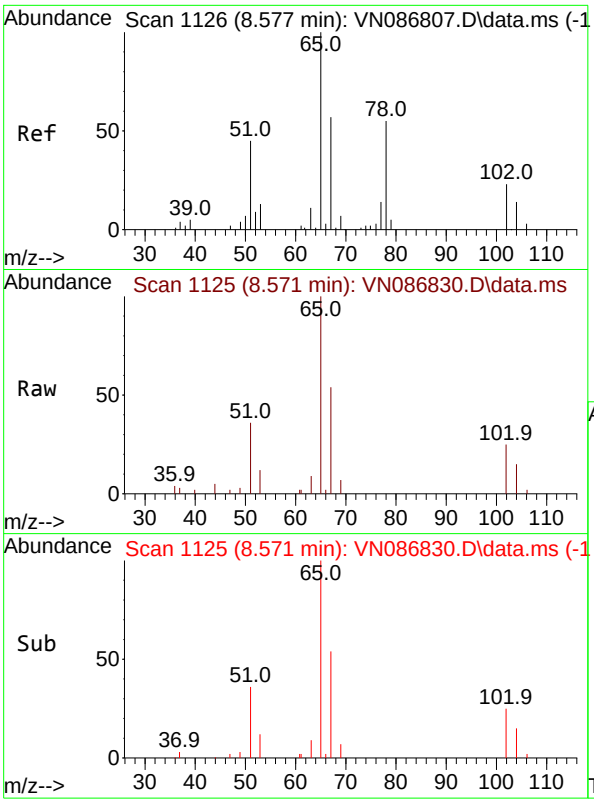


#23
tert-Butyl Alcohol
Concen: 1.197 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 59 Resp: 171

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0



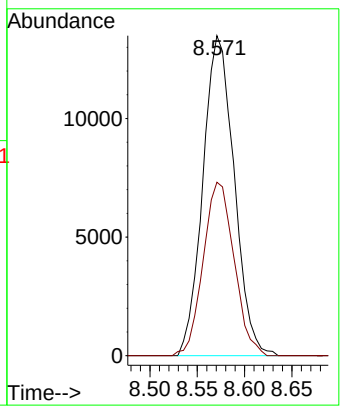


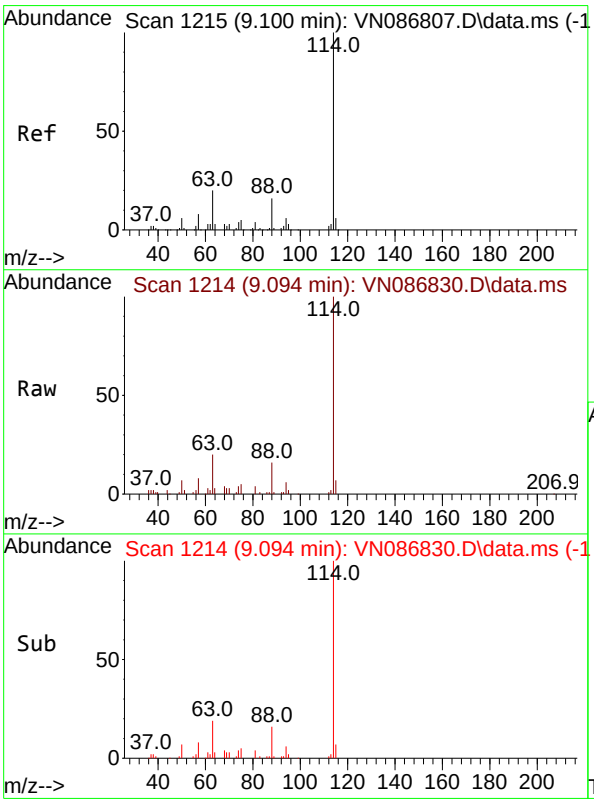
#27
1,2-Dichloroethane-d4
Concen: 30.919 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 65 Resp: 31011

Ion	Ratio	Lower	Upper
65	100		
67	53.5	44.6	67.0

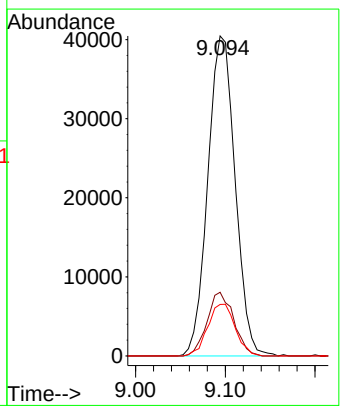


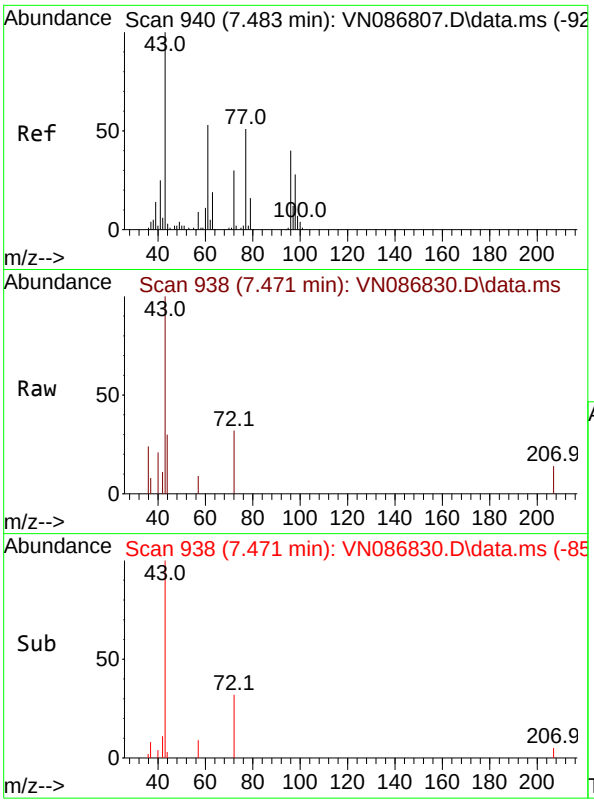


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion:114 Resp: 85610

Ion	Ratio	Lower	Upper
114	100		
63	19.4	15.8	23.8
88	16.3	12.9	19.3



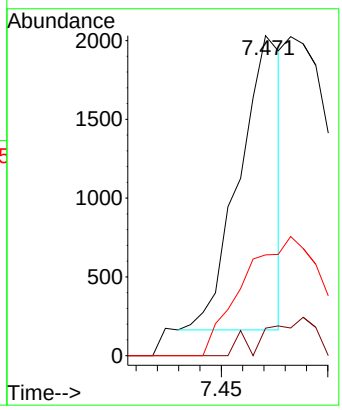


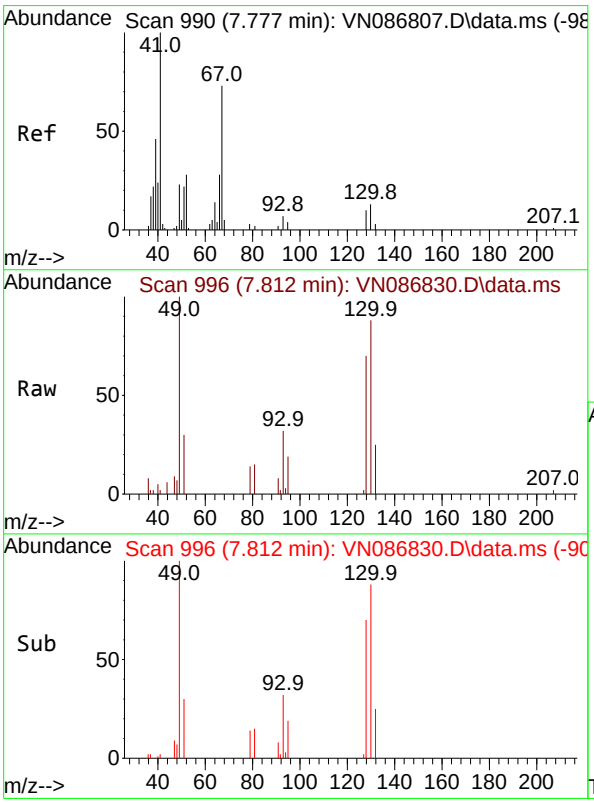
#30
2-Butanone
Concen: 4.631 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 43 Resp: 2554

Ion	Ratio	Lower	Upper
43	100		
57	7.5	6.8	10.2
72	0.0	23.4	35.0#

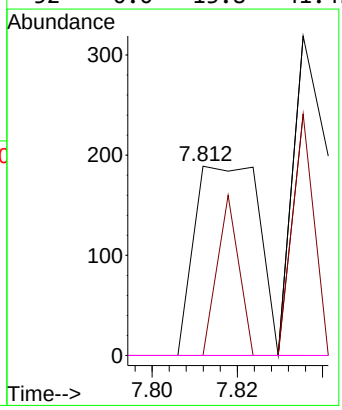


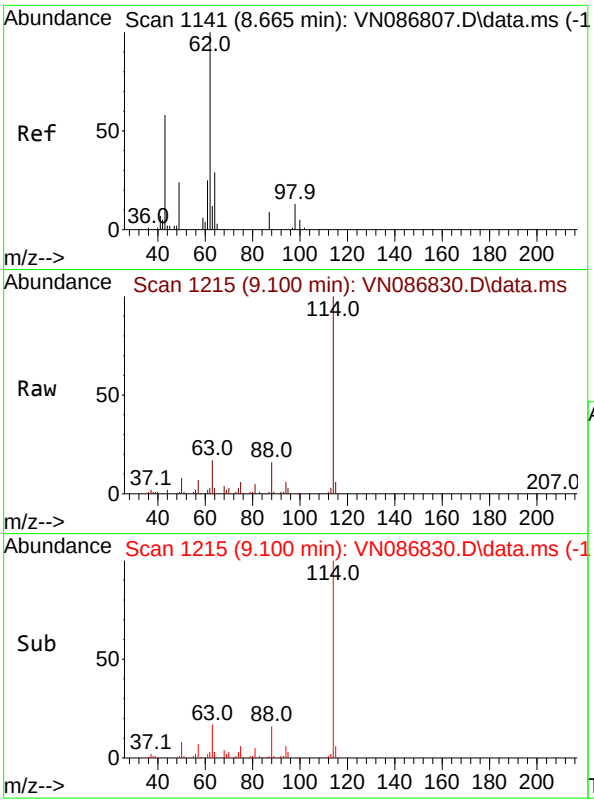


#35
Methacrylonitrile
Concen: 0.313 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.035 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 41 Resp: 198

Ion	Ratio	Lower	Upper
41	100		
39	0.0	23.2	69.6#
67	0.0	36.5	109.7#
52	0.0	13.8	41.4#



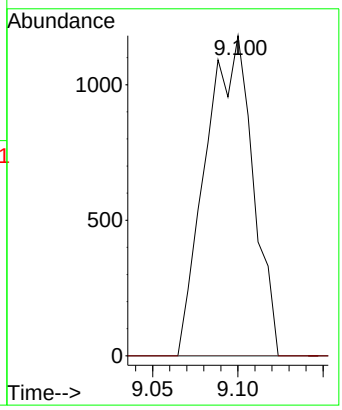


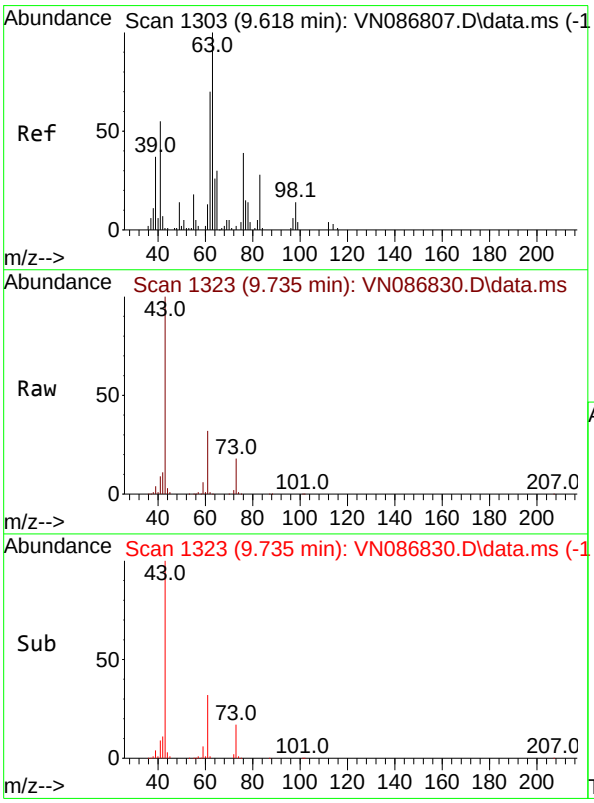
#36
1,2-Dichloroethane
Concen: 1.891 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.435 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 62 Resp: 2269

Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.5	12.7#

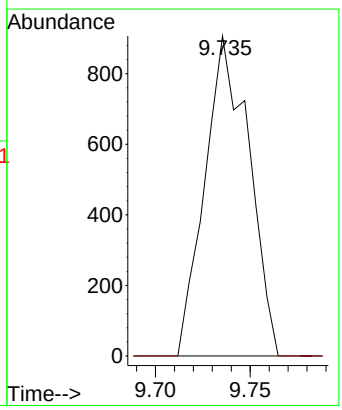


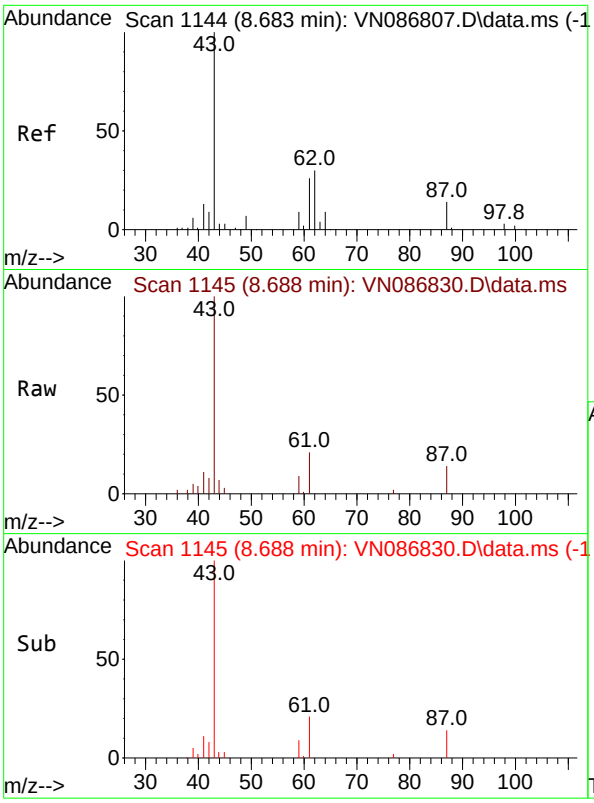


#39
1,2-Dichloropropane
Concen: 1.491 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 63 Resp: 1470

Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.2	36.4#



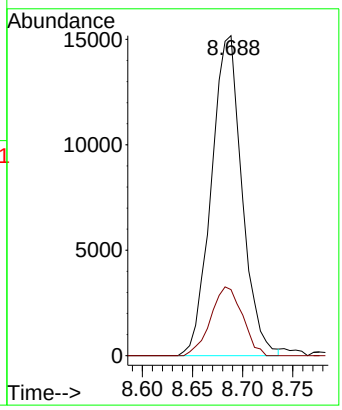


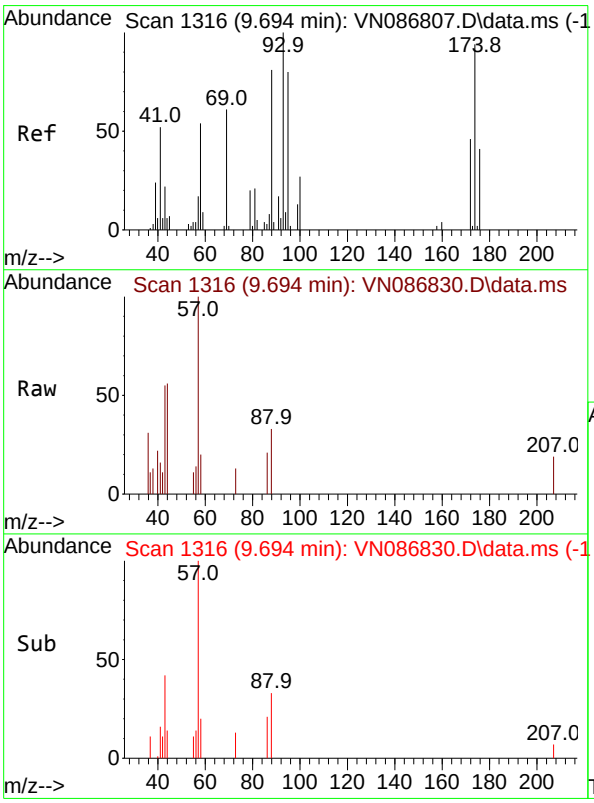
#44
Isopropyl Acetate
Concen: 16.710 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 43 Resp: 32348

Ion	Ratio	Lower	Upper
43	100		
61	22.2	23.8	35.6#

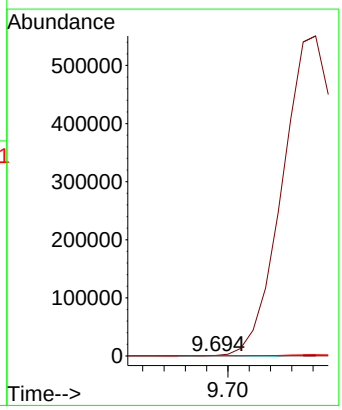


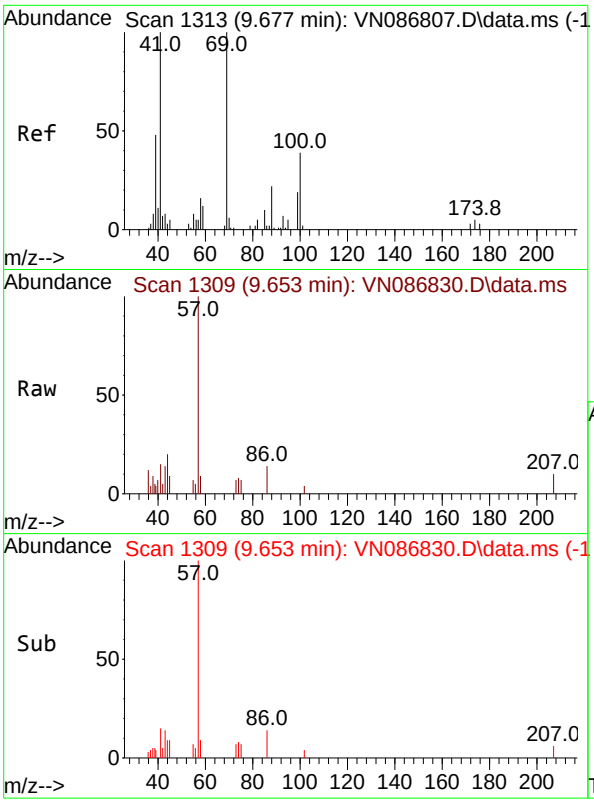


#45
1,4-Dioxane
Concen: 55.270 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 88 Resp: 951

Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.0	34.6#
58	60.4	57.6	86.4



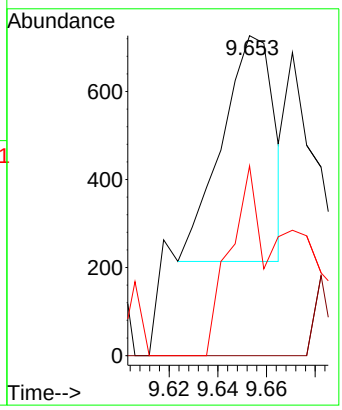


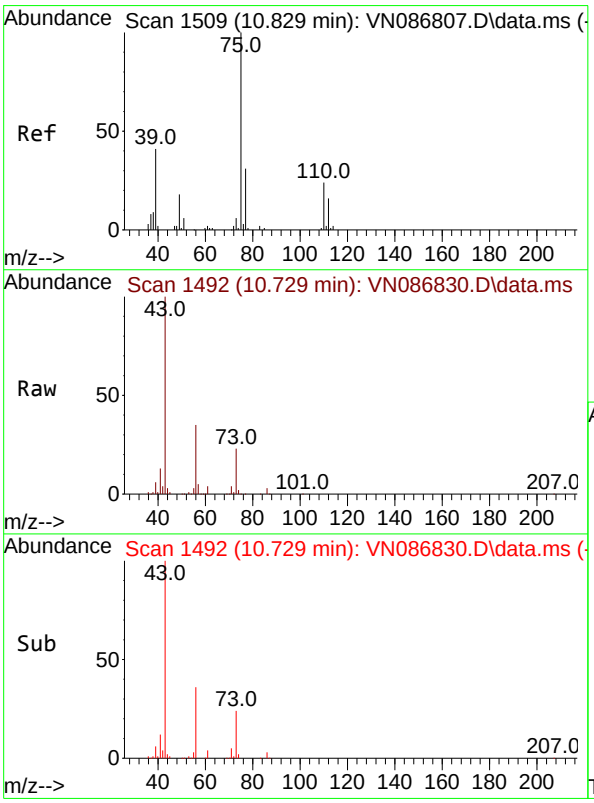
#46
Methyl methacrylate
Concen: 0.865 ug/l
RT: 9.653 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 41 Resp: 772

Ion	Ratio	Lower	Upper
41	100		
69	0.0	48.0	144.2#
39	84.0	23.8	71.2#

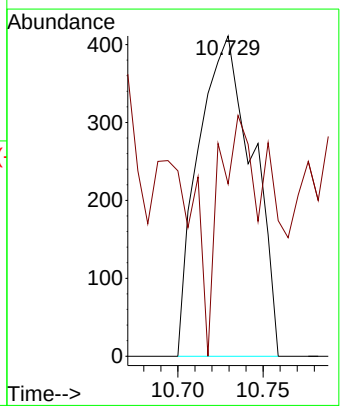


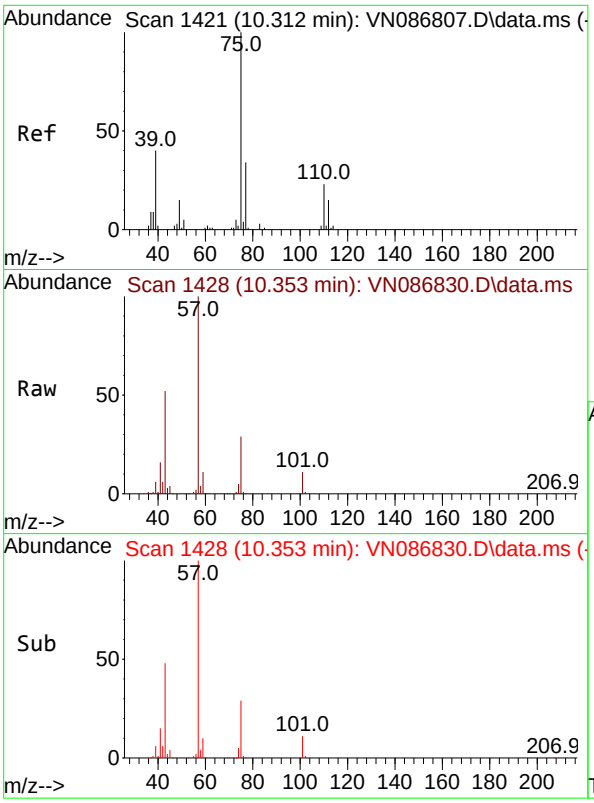


#48
t-1,3-Dichloropropene
Concen: 0.630 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.100 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 75 Resp: 910

Ion	Ratio	Lower	Upper
75	100		
77	11.4	25.1	37.7#



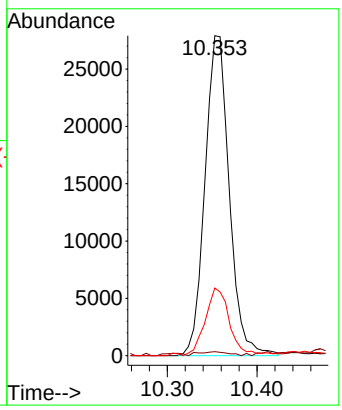


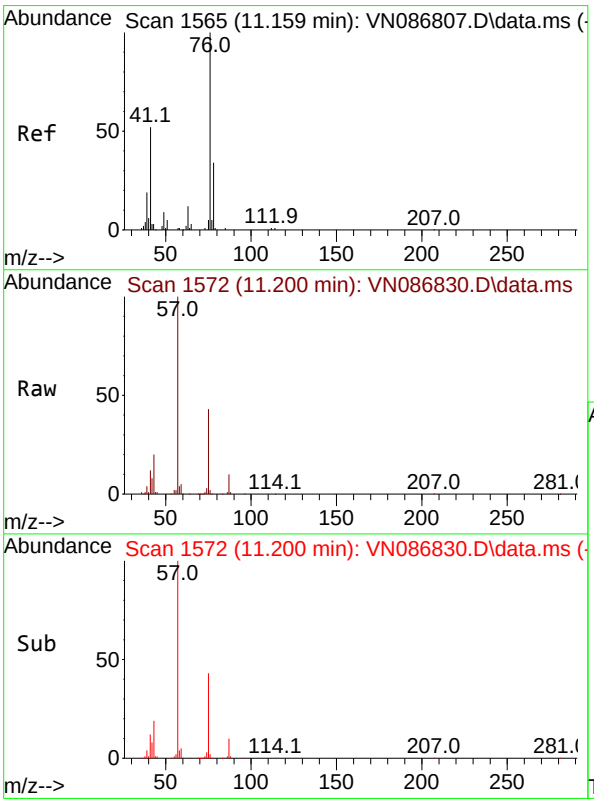
#49
cis-1,3-Dichloropropene
Concen: 33.039 ug/l
RT: 10.353 min Scan# 14
Delta R.T. 0.041 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 75 Resp: 52495

Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.9	40.3#
39	20.6	31.8	47.6#

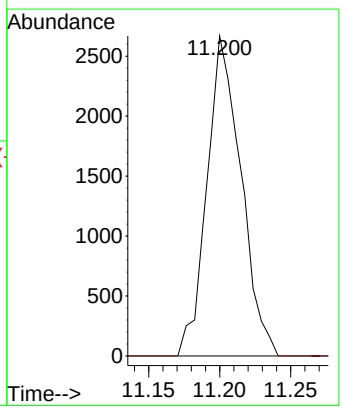


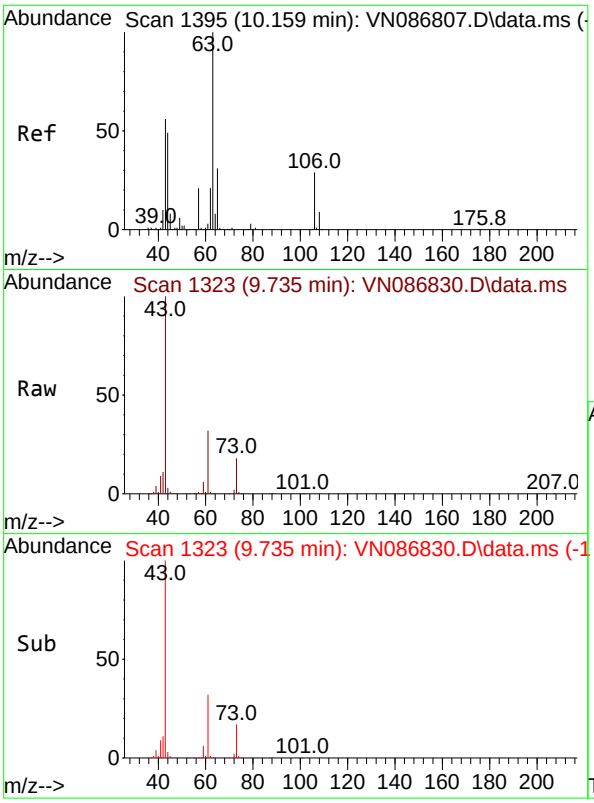


#52
1,3-Dichloropropane
Concen: 2.762 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 76 Resp: 4452

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	64.6



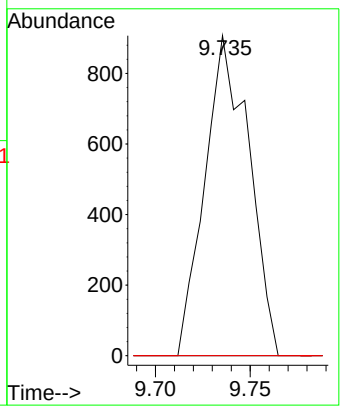


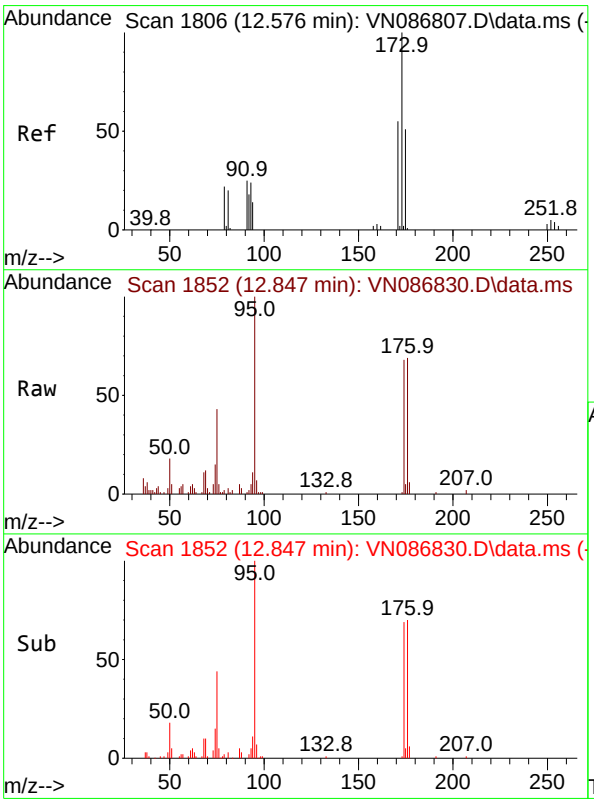
#55
2-Chloroethyl vinyl ether
Concen: 2.082 ug/l
RT: 9.735 min Scan# 1
Delta R.T. -0.424 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 63 Resp: 1470

Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.7	38.5#
106	0.0	22.7	34.1#

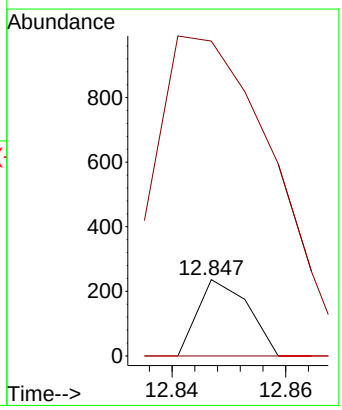


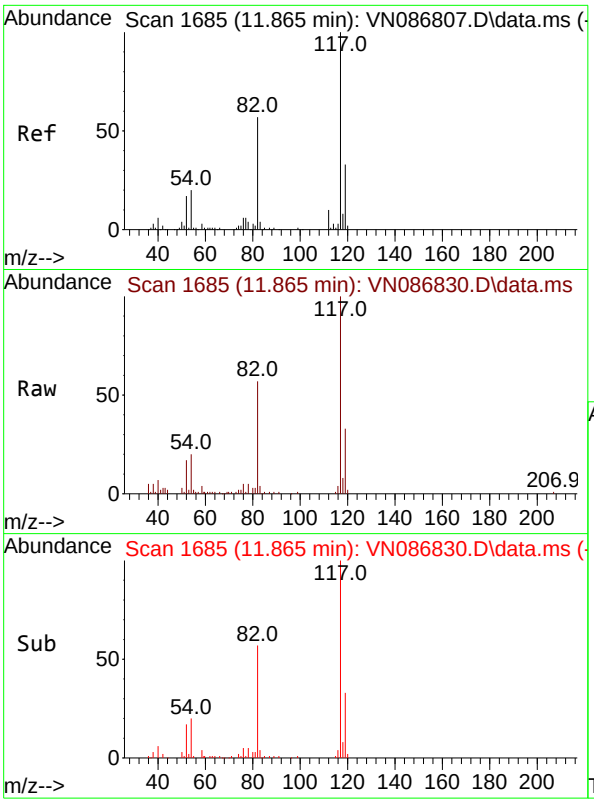


#56
Bromoform
Concen: 0.224 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion:173 Resp: 145

Ion	Ratio	Lower	Upper
173	100		
175	1067.6	39.7	59.5#
254	0.0	3.5	5.3#



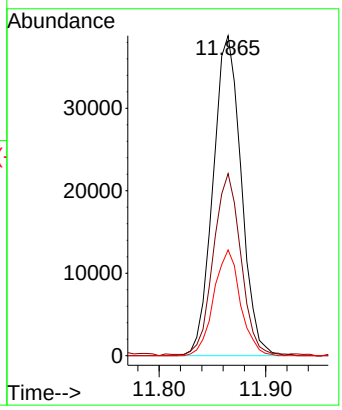


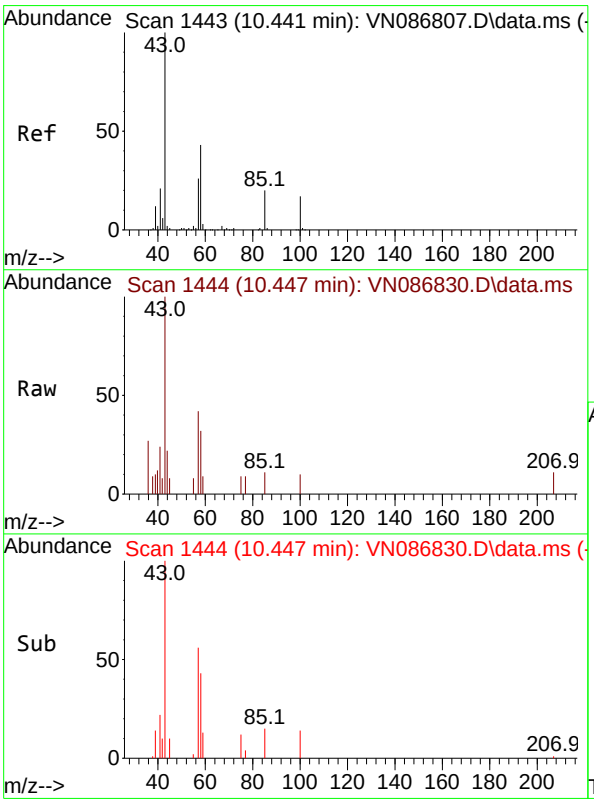
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion:117 Resp: 71137

Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.7	67.1
119	31.3	25.6	38.4

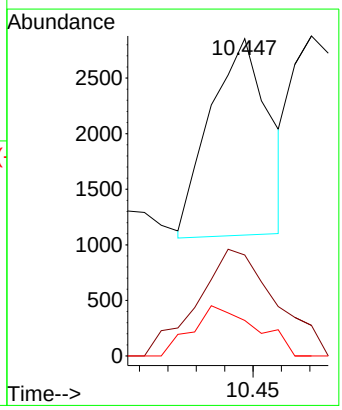


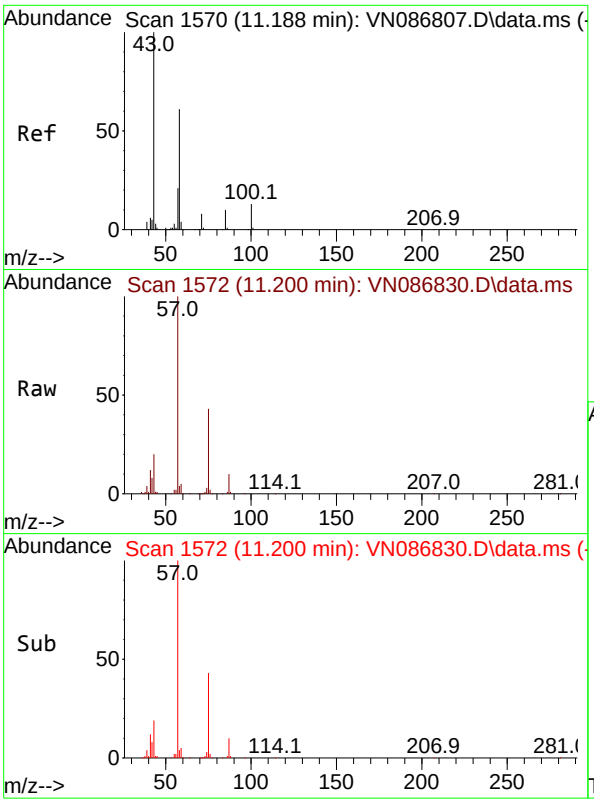


#58
4-Methyl-2-Pentanone
Concen: 2.434 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 43 Resp: 2541

Ion	Ratio	Lower	Upper
43	100		
58	72.4	34.5	51.7#
85	27.9	15.8	23.8#



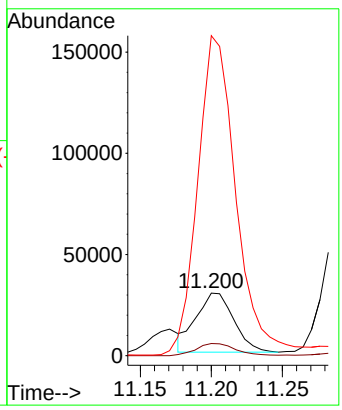


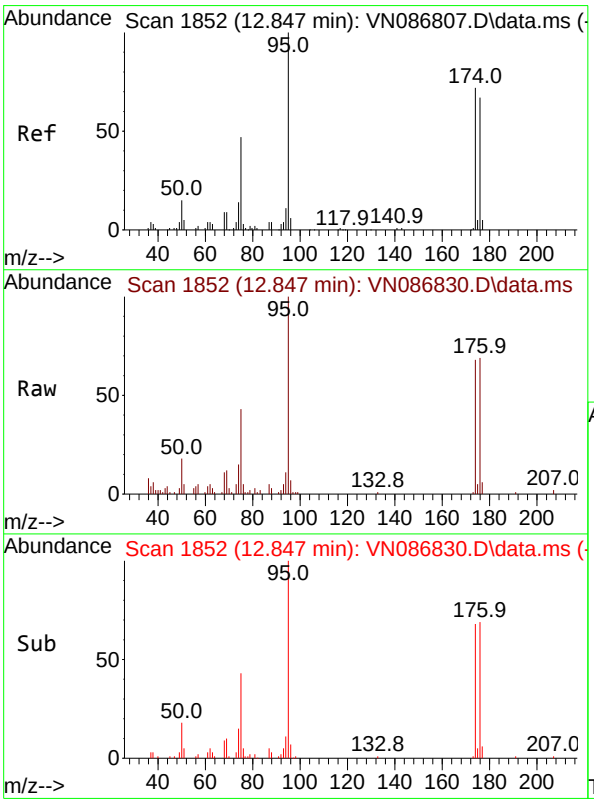
#59
2-Hexanone
Concen: 72.343 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 43 Resp: 54090

Ion	Ratio	Lower	Upper
43	100		
58	21.7	49.1	73.7#
57	550.6	16.6	25.0#

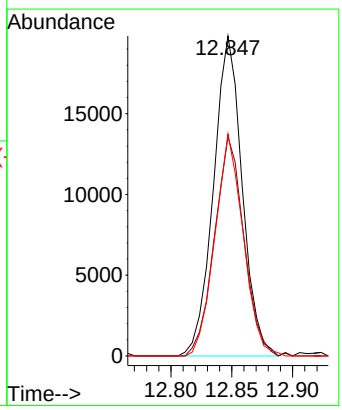


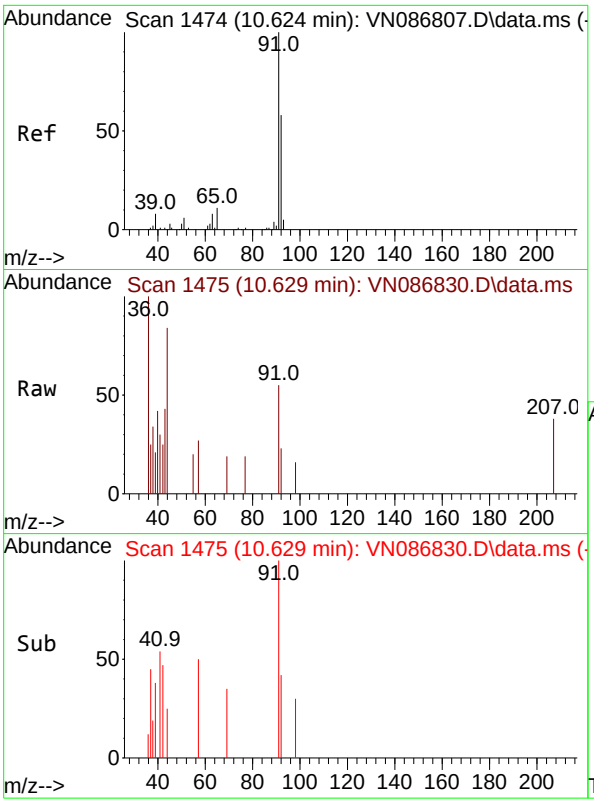


#60
4-Bromofluorobenzene
Concen: 29.107 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 95 Resp: 32509

Ion	Ratio	Lower	Upper
95	100		
174	70.1	56.2	84.4
176	68.2	53.4	80.0



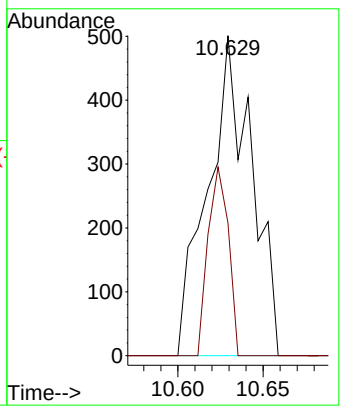


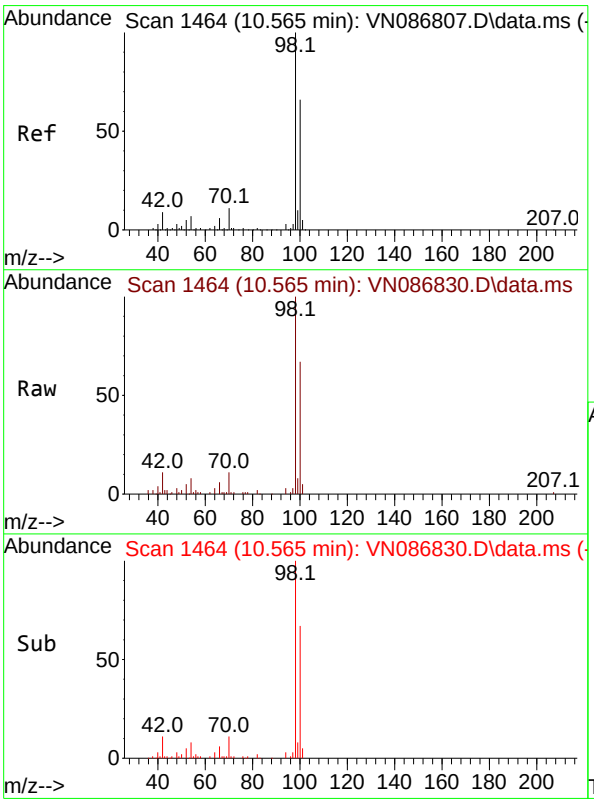
#62
Toluene
Concen: 0.223 ug/l
RT: 10.629 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 91 Resp: 895

Ion	Ratio	Lower	Upper
91	100		
92	27.4	46.6	70.0#

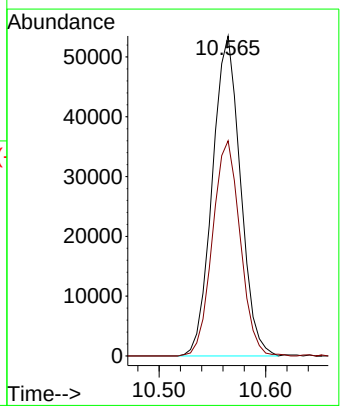


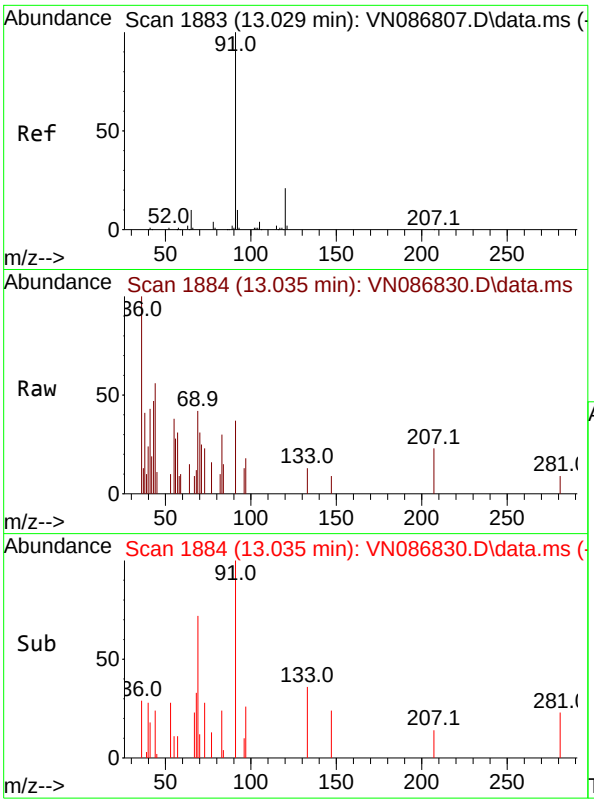


#63
Toluene-d8
Concen: 29.924 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 98 Resp: 97706

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1



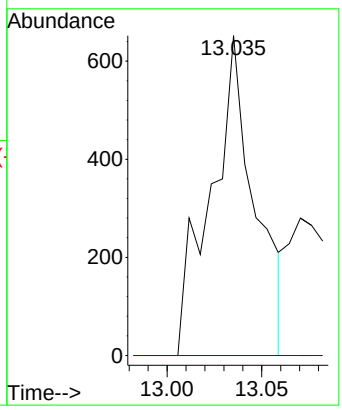


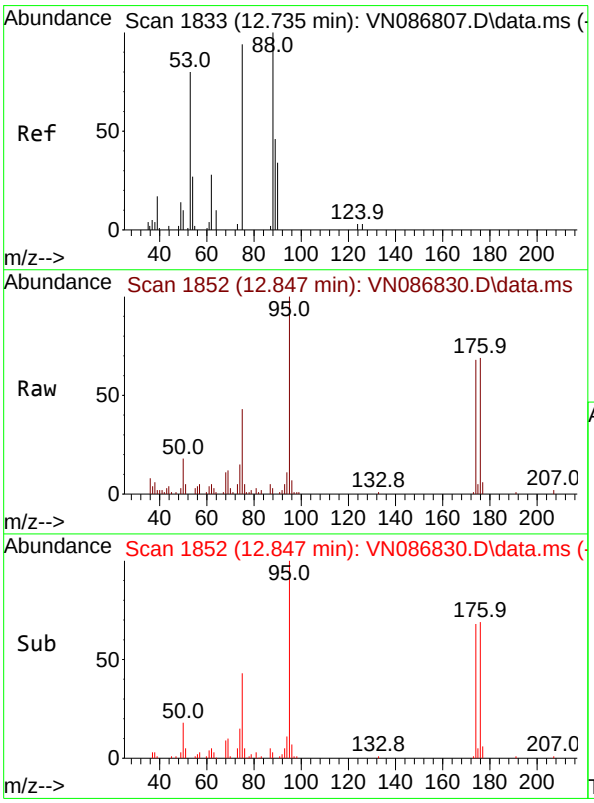
#74
n-propylbenzene
Concen: 0.227 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 91 Resp: 1054

Ion	Ratio	Lower	Upper
91	100		
120	0.0	0.0	45.6

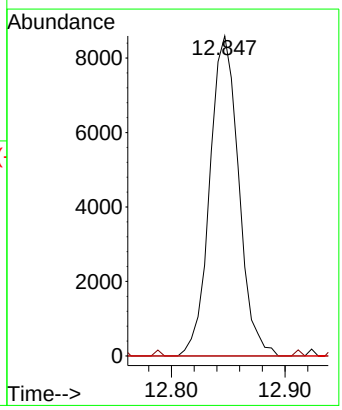


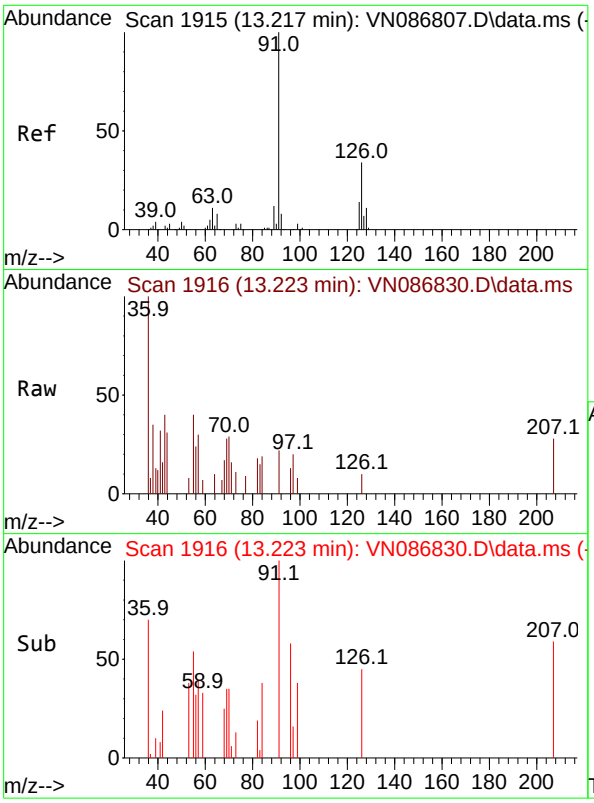


#77
t-1,4-Dichloro-2-butene
Concen: 34.002 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 75 Resp: 15198

Ion	Ratio	Lower	Upper
75	100		
53	0.0	43.0	128.8#
89	0.0	25.4	76.2#



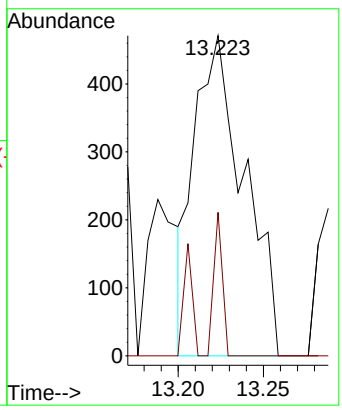


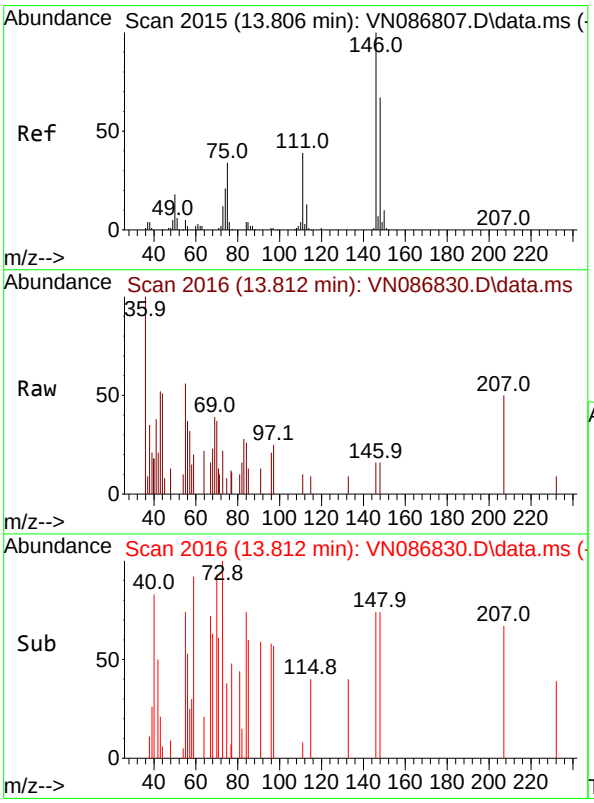
#78
4-Chlorotoluene
Concen: 0.325 ug/l
RT: 13.223 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 91 Resp: 959

Ion	Ratio	Lower	Upper
91	100		
126	0.0	0.0	66.6

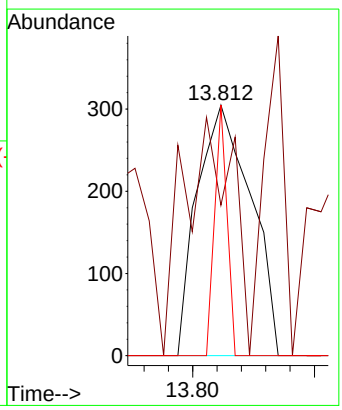


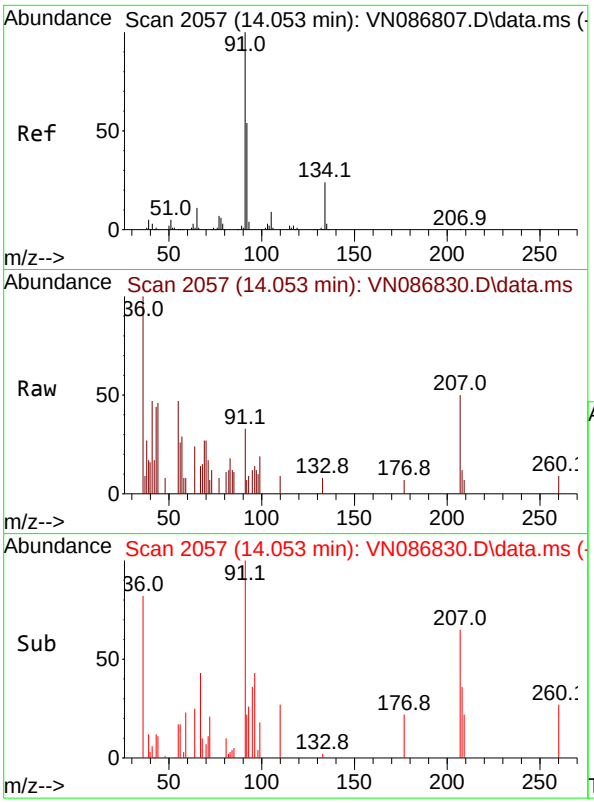


#84
1,4-Dichlorobenzene
Concen: 0.263 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion:146 Resp: 468

Ion	Ratio	Lower	Upper
146	100		
111	86.5	19.8	59.4#
148	0.0	31.9	95.5#



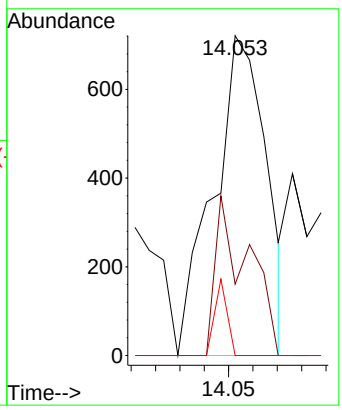


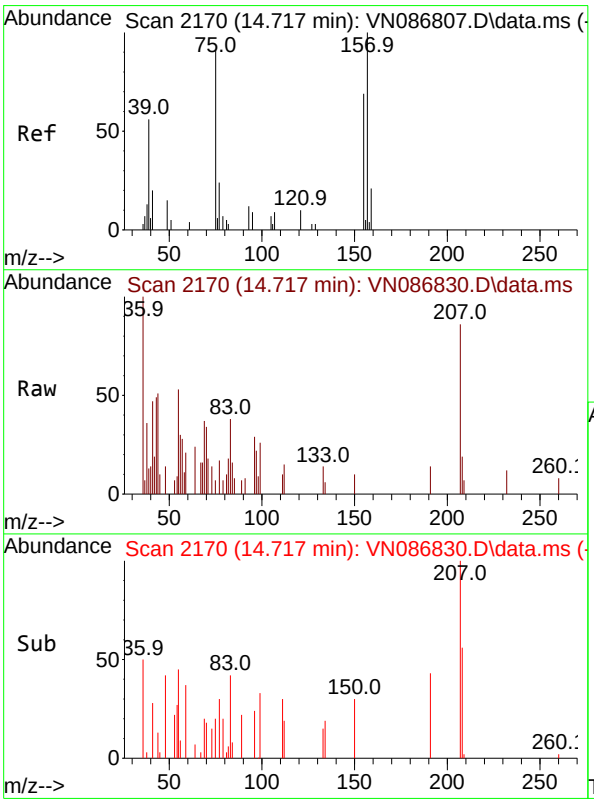
#85
n-Butylbenzene
Concen: 0.402 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion: 91 Resp: 1086

Ion	Ratio	Lower	Upper
91	100		
92	14.2	0.0	107.6
134	0.0	0.0	50.0

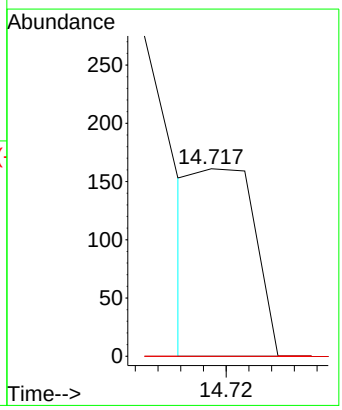


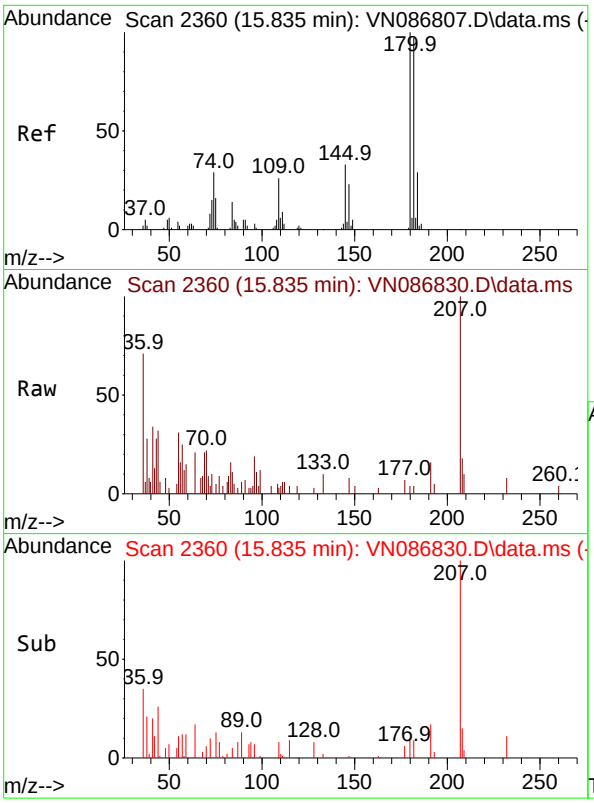


#88
1,2-Dibromo-3-Chloropropane
Concen: 0.576 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion: 75 Resp: 113

Ion	Ratio	Lower	Upper
75	100		
155	0.0	62.9	94.3#
157	0.0	84.0	126.0#



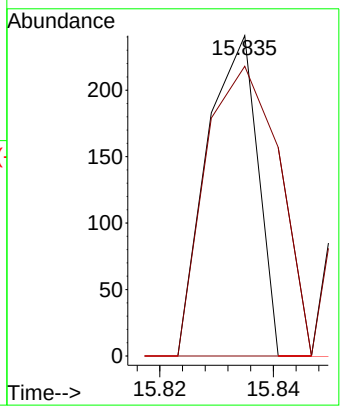


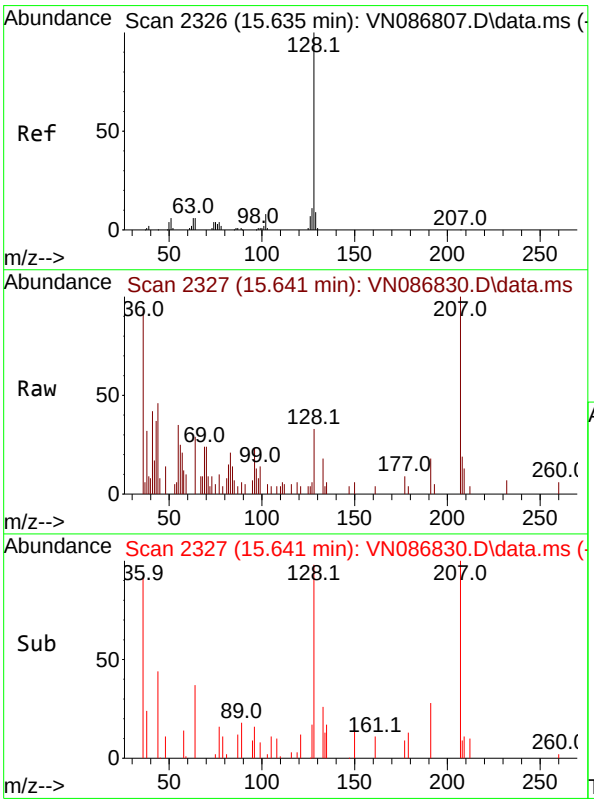
#89
1,2,4-Trichlorobenzene
Concen: 0.208 ug/l
RT: 15.835 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion:180 Resp: 150

Ion	Ratio	Lower	Upper
180	100		
182	130.7	78.2	117.2#
145	0.0	28.0	42.0#

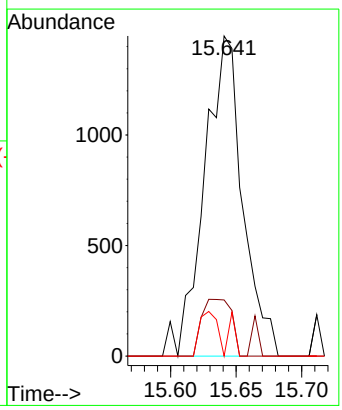


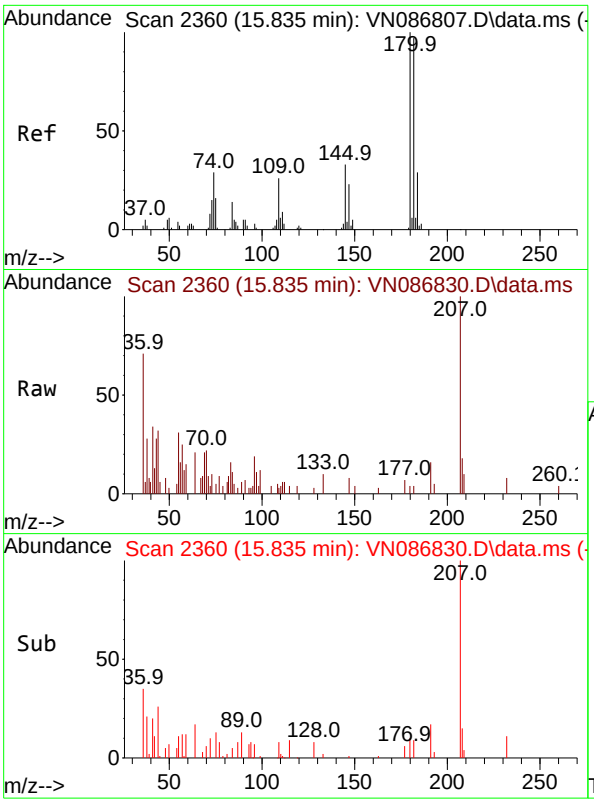


#91
Naphthalene
Concen: 1.150 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Tgt Ion:128 Resp: 2895

Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.6#
129	2.4	8.6	13.0#





#92
1,2,3-Trichlorobenzene
Concen: 0.208 ug/l
RT: 15.835 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086830.D
Acq: 30 May 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#01

Tgt Ion:180 Resp: 150

Ion	Ratio	Lower	Upper
180	100		
182	130.7	0.0	195.4
145	0.0	0.0	70.0