

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088253.D
 Acq On : 11 Nov 2025 13:44
 Operator : JC\MD
 Sample : Q3581-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200059

Quant Time: Nov 12 01:15:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

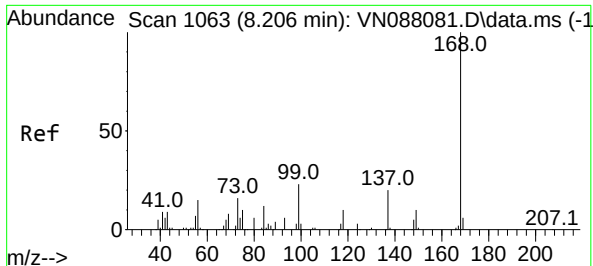
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	244745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	570899	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	575978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	278752	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	271026	64.040	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 128.080%#		
35) Dibromofluoromethane	8.147	113	197307	51.445	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.880%		
50) Toluene-d8	10.541	98	704831	47.694	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.380%		
62) 4-Bromofluorobenzene	12.823	95	280830	53.808	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 107.620%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	4358	5.977	ug/l #	75
13) Acrolein	4.177	56	214	0.261	ug/l #	14
16) Acetone	4.424	43	157918	74.273	ug/l	97
18) Methyl Acetate	5.024	43	7801	1.792	ug/l #	85
20) Methylene Chloride	5.265	84	13238	3.709	ug/l	91
25) 2-Butanone	7.471	43	16301	5.818	ug/l	94
29) Tetrahydrofuran	7.830	42	1561	0.855	ug/l #	59
31) Cyclohexane	8.212	56	7813	1.319	ug/l #	49
36) 1,1-Dichloropropene	8.206	75	25693	4.588	ug/l #	52
37) Ethyl Acetate	7.471	43	16301	2.256	ug/l #	72
38) Carbon Tetrachloride	8.200	117	28562	4.938	ug/l #	16
43) Isopropyl Acetate	8.677	43	28282	2.547	ug/l	94
48) Methyl methacrylate	9.718	41	121665	23.731	ug/l #	47
51) 4-Methyl-2-Pentanone	10.424	43	16720	2.545	ug/l #	80
54) cis-1,3-Dichloropropene	10.335	75	45937	6.616	ug/l #	65
57) 1,3-Dichloropropane	11.188	76	4078	0.582	ug/l #	42
59) 2-Hexanone	11.182	43	70008	16.064	ug/l #	47
76) 1,2,3-Trichloropropane	12.823	75	164509	25.813	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	164509	72.006	ug/l #	1

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

Quant Time: Nov 12 01:15:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

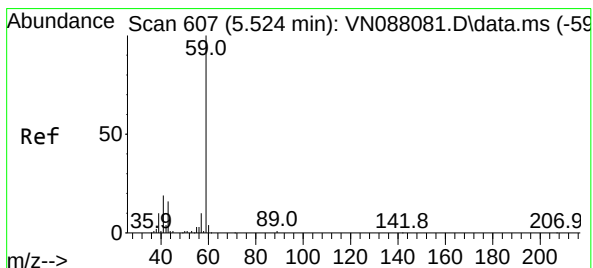
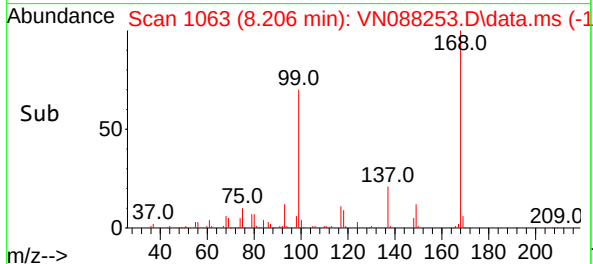
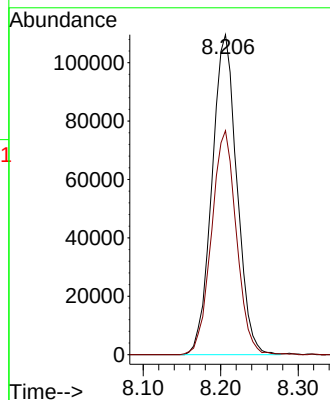
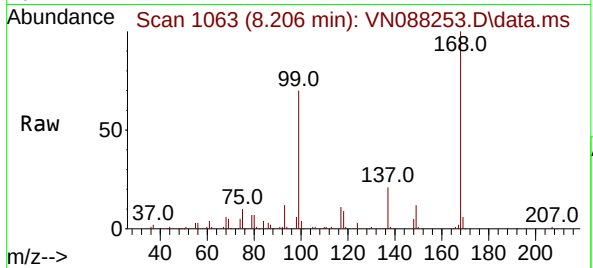




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

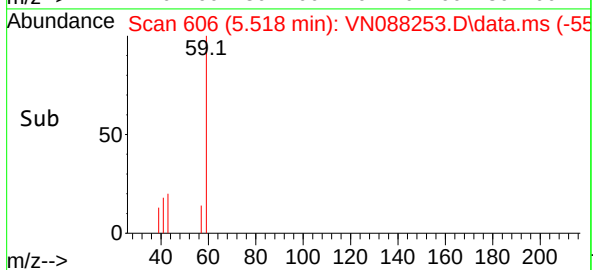
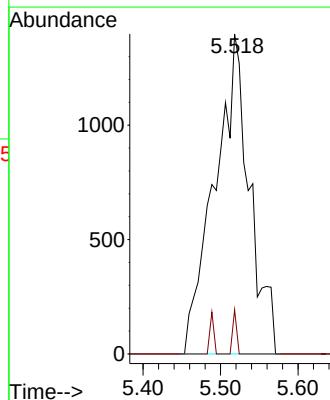
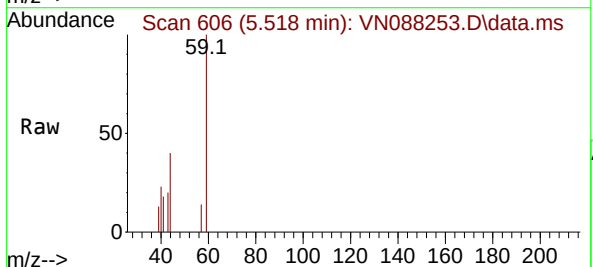
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

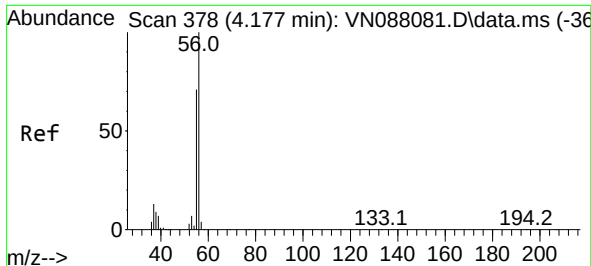
Tgt Ion:168 Resp: 244745
Ion Ratio Lower Upper
168 100
99 70.0 57.2 85.8



#11
Tert butyl alcohol
Concen: 5.977 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 59 Resp: 4358
Ion Ratio Lower Upper
59 100
57 1.6 9.0 13.4#

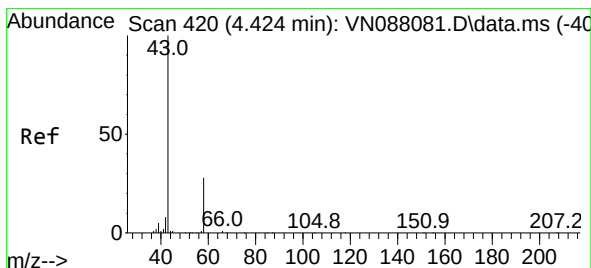
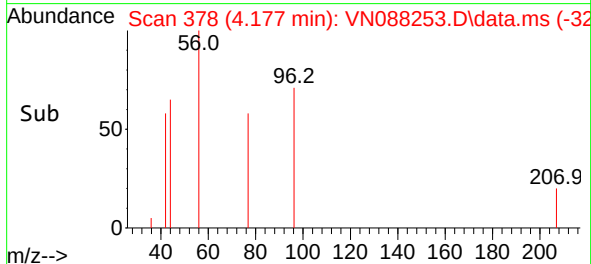
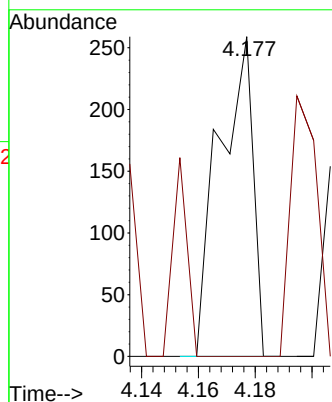
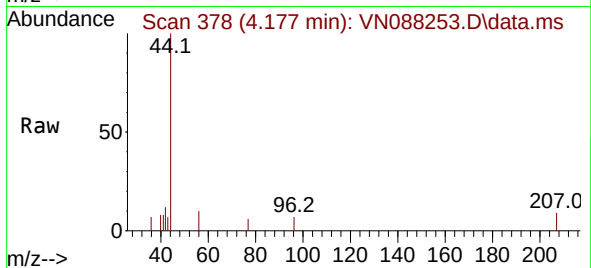




#13
Acrolein
Concen: 0.261 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

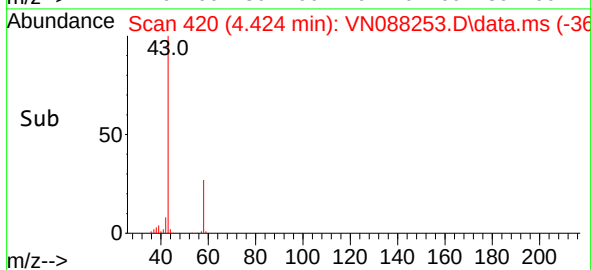
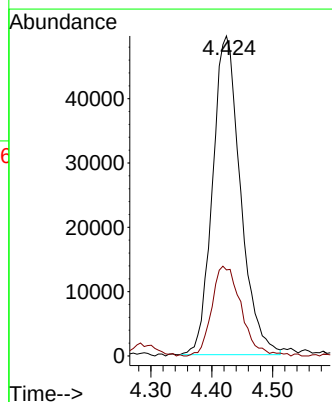
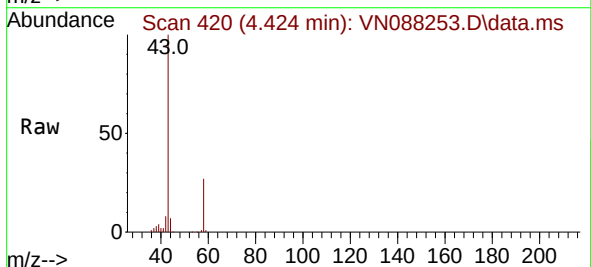
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

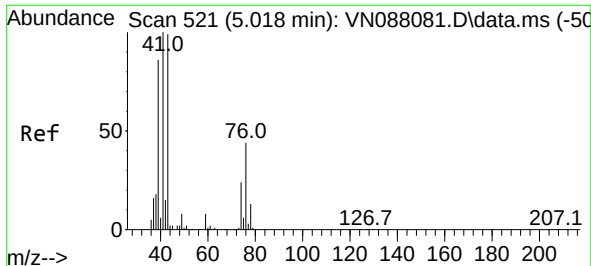
Tgt Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#



#16
Acetone
Concen: 74.273 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 43 Resp: 157918
Ion Ratio Lower Upper
43 100
58 26.6 22.6 33.8

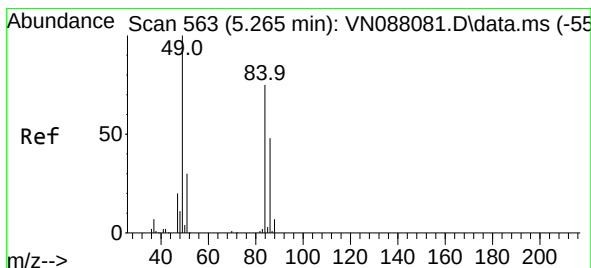
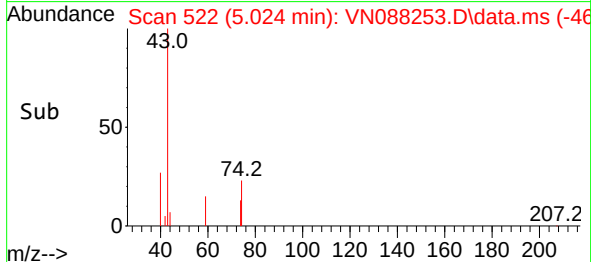
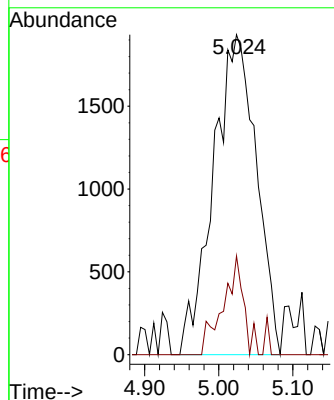
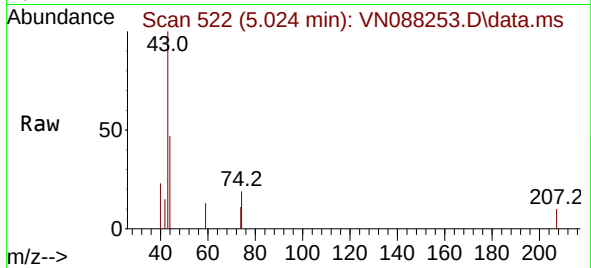




#18
Methyl Acetate
Concen: 1.792 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

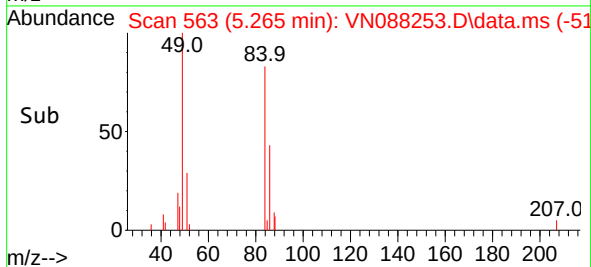
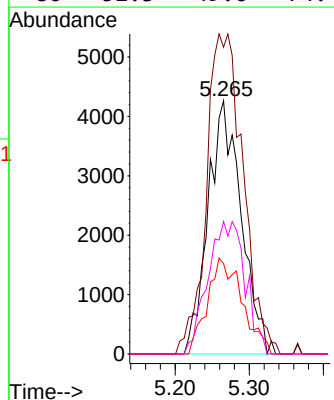
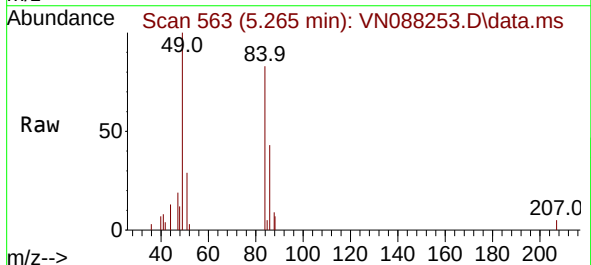
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

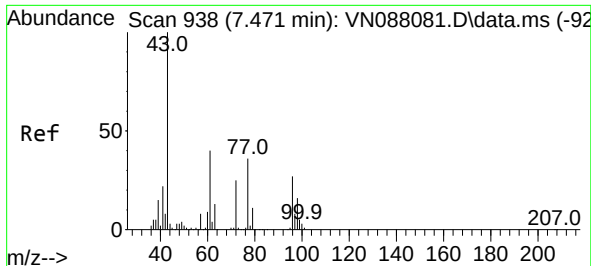
Tgt Ion: 43 Resp: 7801
Ion Ratio Lower Upper
43 100
74 14.9 17.6 26.4#



#20
Methylene Chloride
Concen: 3.709 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 84 Resp: 13238
Ion Ratio Lower Upper
84 100
49 121.2 103.4 155.2
51 35.7 33.8 50.8
86 52.3 49.6 74.4

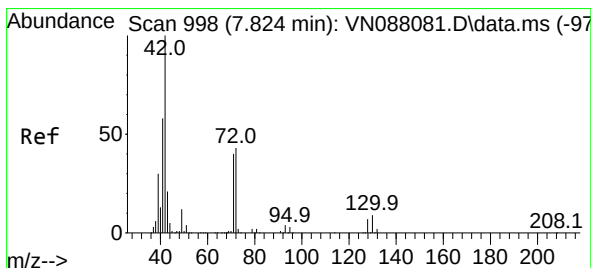
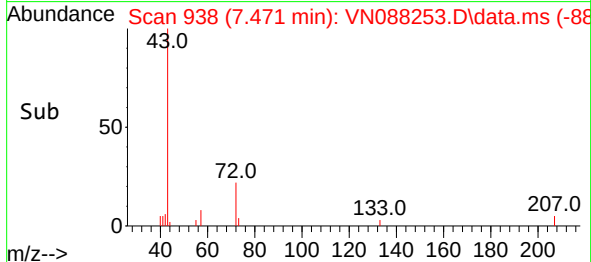
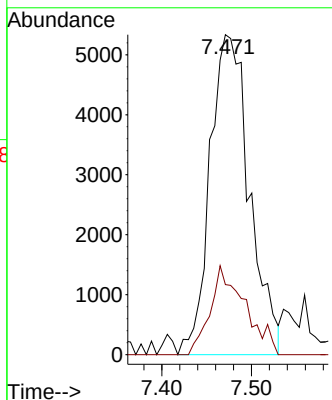
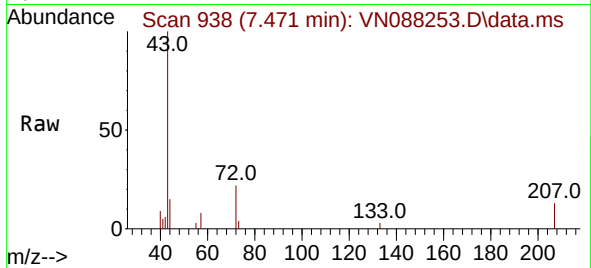




#25
2-Butanone
Concen: 5.818 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

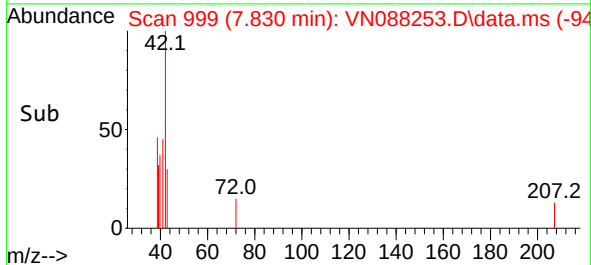
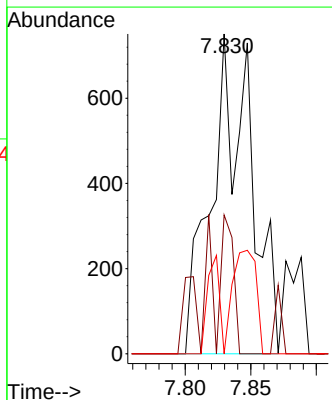
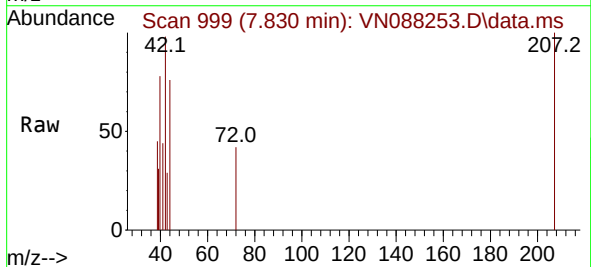
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

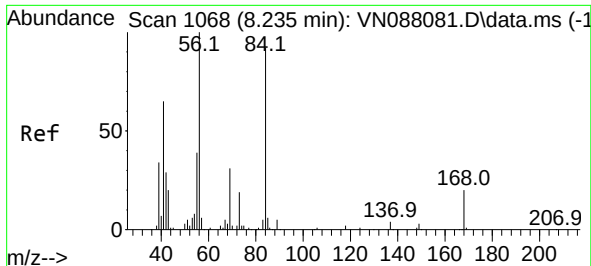
Tgt Ion: 43 Resp: 16301
Ion Ratio Lower Upper
43 100
72 21.9 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.855 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 42 Resp: 1561
Ion Ratio Lower Upper
42 100
72 20.9 33.7 50.5#
71 9.4 31.9 47.9#

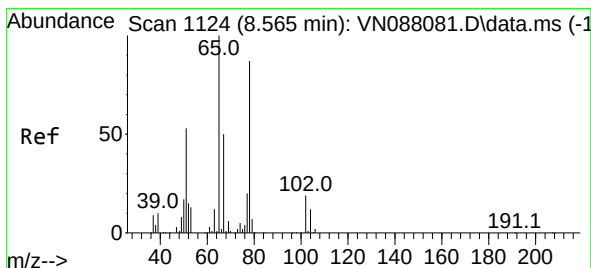
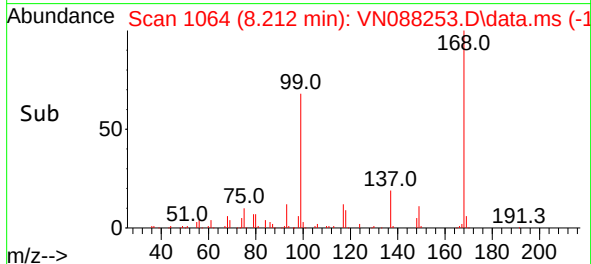
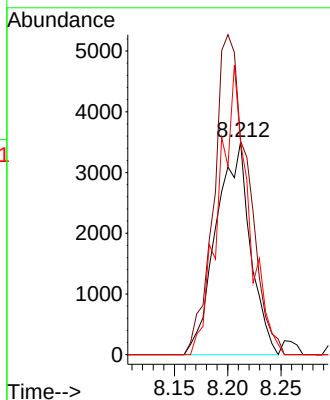
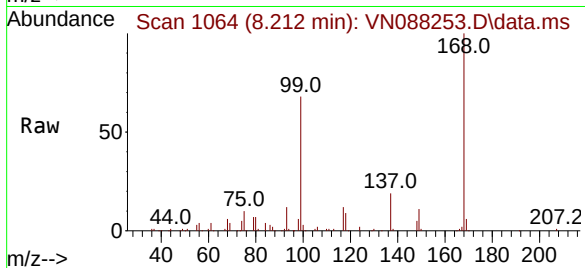




#31
Cyclohexane
Concen: 1.319 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.024 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

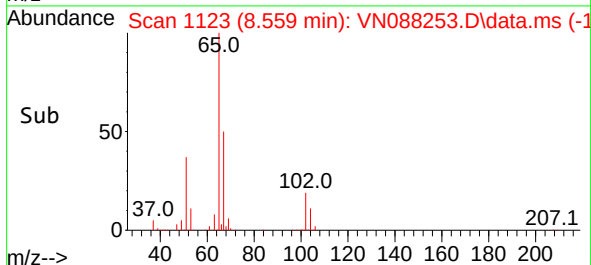
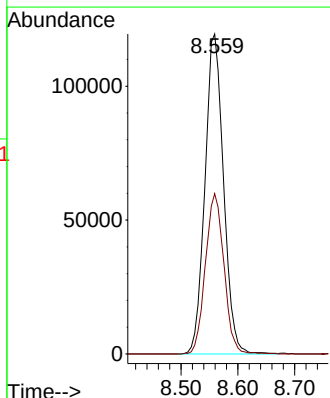
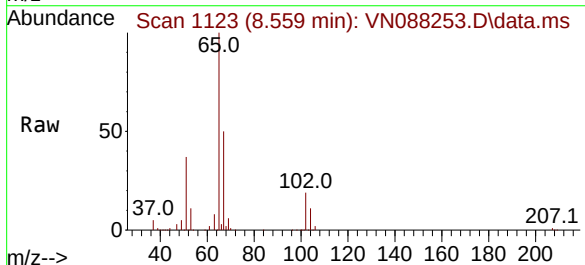
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

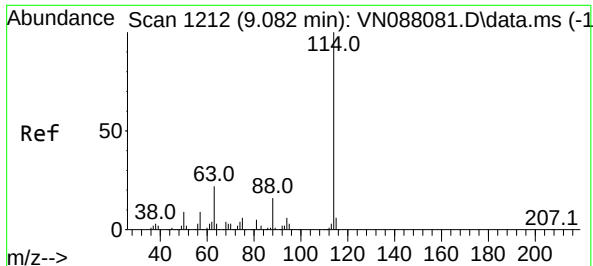
Tgt Ion: 56 Resp: 7813
Ion Ratio Lower Upper
56 100
69 100.3 23.7 35.5#
84 99.6 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 64.040 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 65 Resp: 271026
Ion Ratio Lower Upper
65 100
67 50.1 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

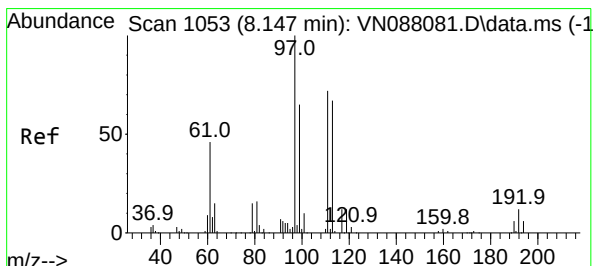
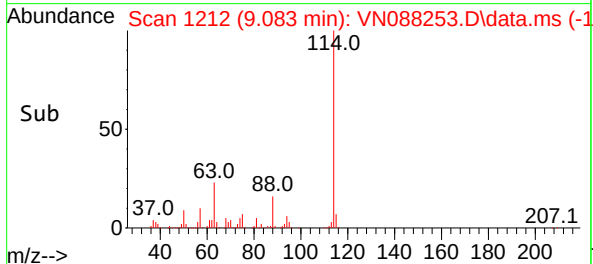
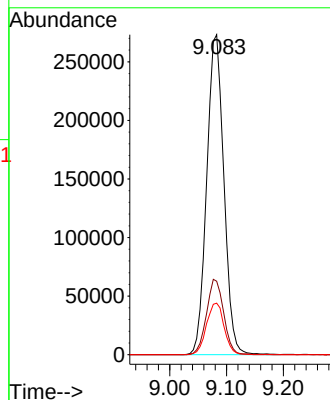
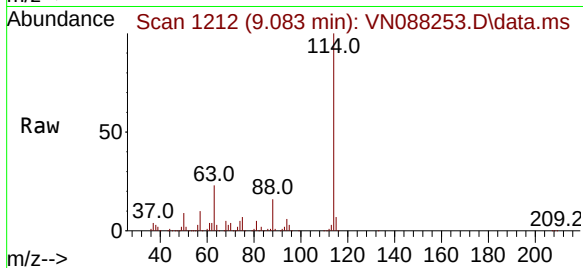
Tgt Ion:114 Resp: 570899

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 16.1 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.445 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

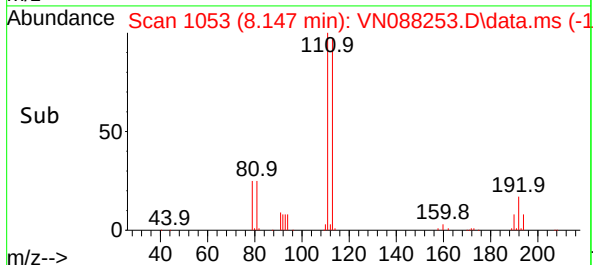
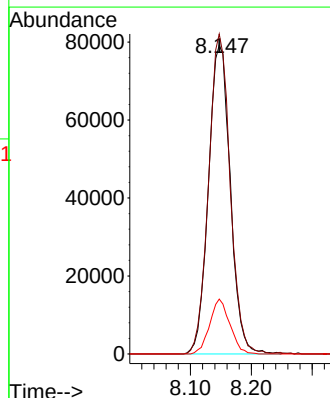
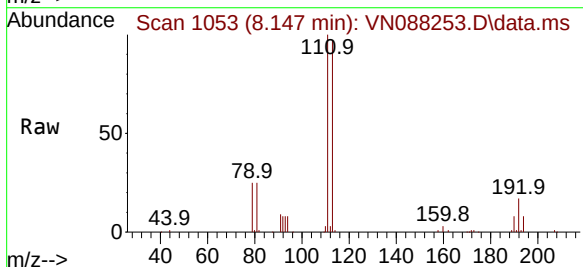
Tgt Ion:113 Resp: 197307

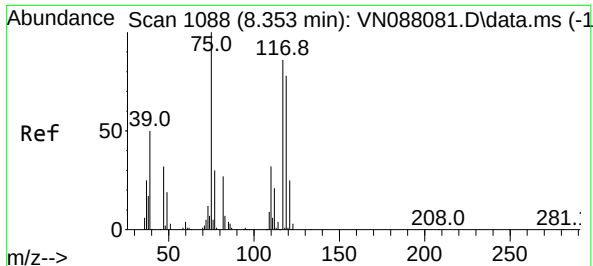
Ion Ratio Lower Upper

113 100

111 102.0 82.8 124.2

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.588 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

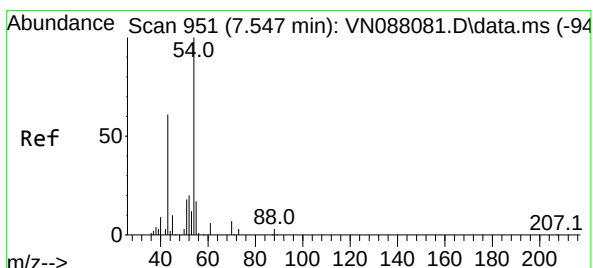
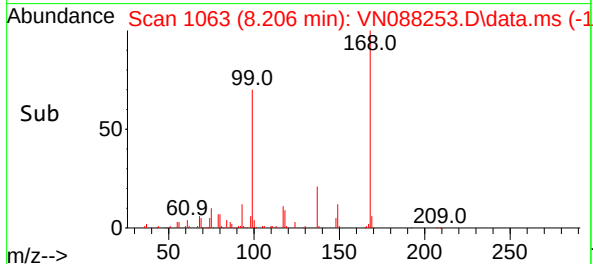
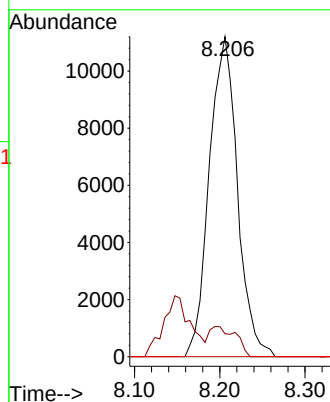
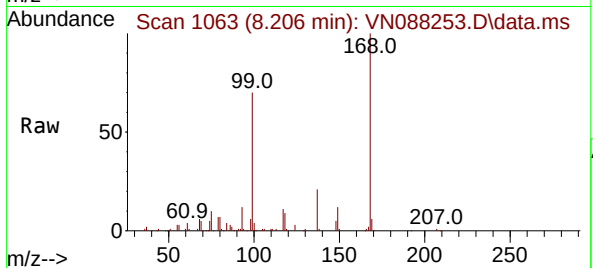
Tgt Ion: 75 Resp: 25693

Ion Ratio Lower Upper

75 100

110 8.8 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.256 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.076 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

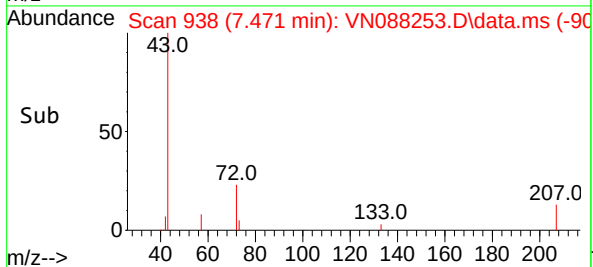
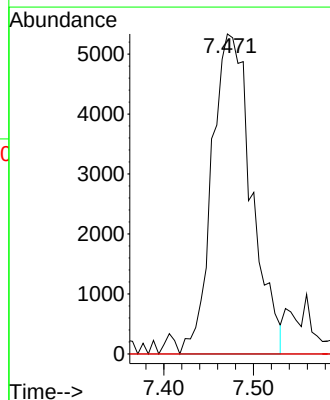
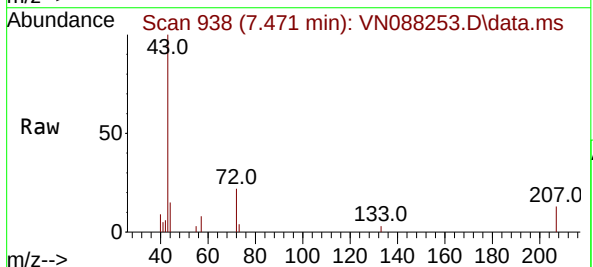
Tgt Ion: 43 Resp: 16301

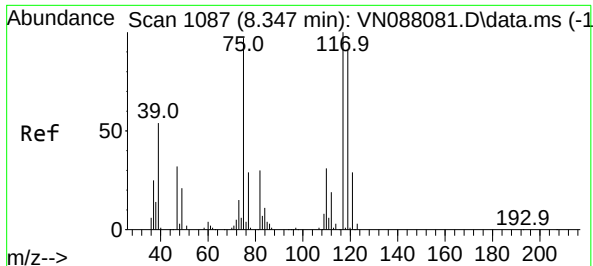
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#

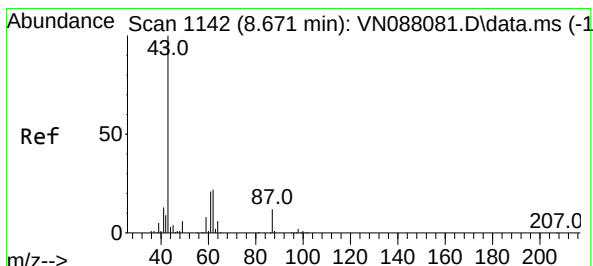
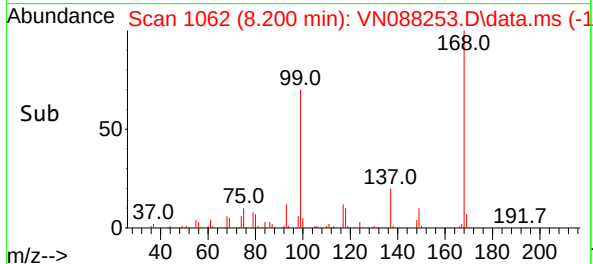
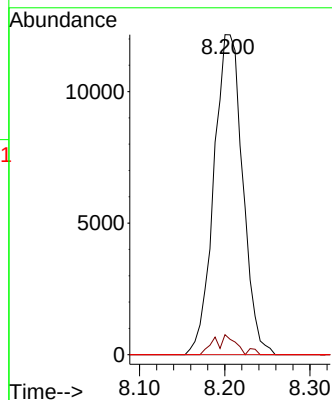
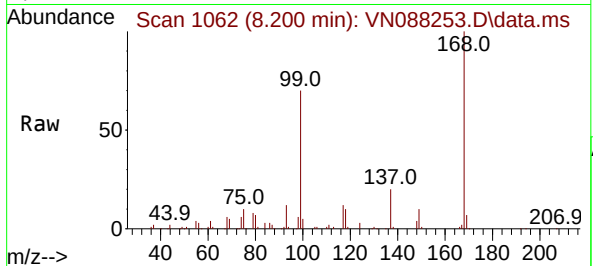




#38
Carbon Tetrachloride
Concen: 4.938 ug/l
RT: 8.200 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

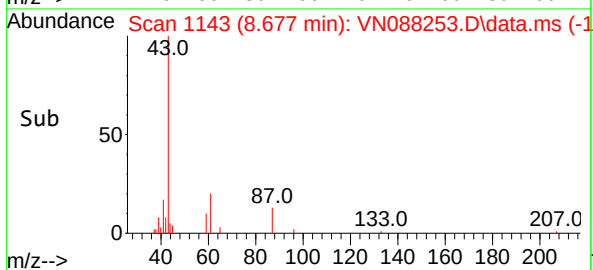
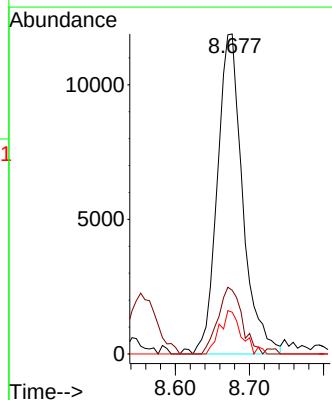
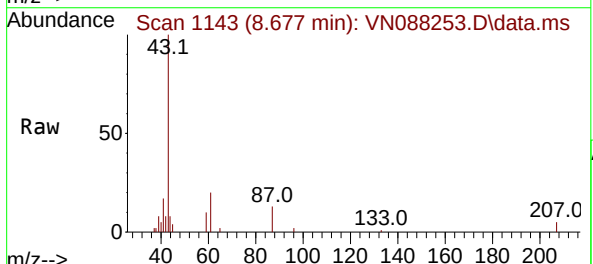
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

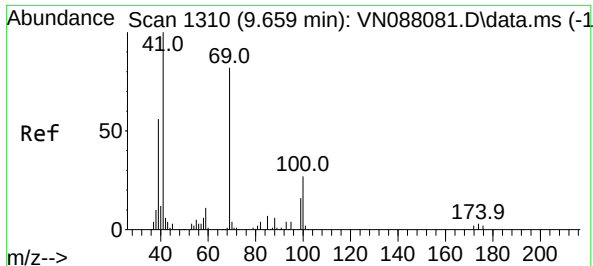
Tgt Ion:117 Resp: 28562
Ion Ratio Lower Upper
117 100
119 6.2 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.547 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 43 Resp: 28282
Ion Ratio Lower Upper
43 100
61 19.6 18.8 28.2
87 11.6 9.6 14.4

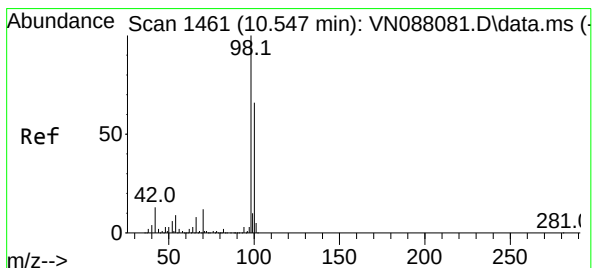
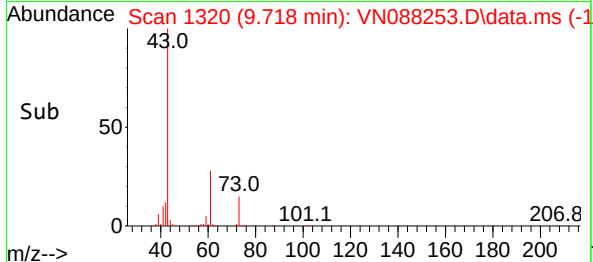
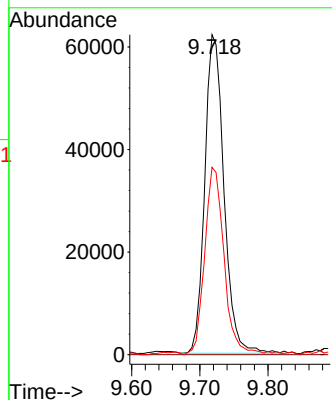
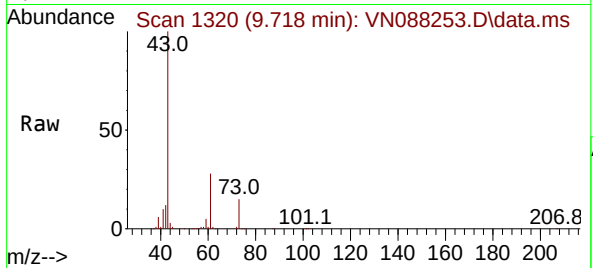




#48
Methyl methacrylate
Concen: 23.731 ug/l
RT: 9.718 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

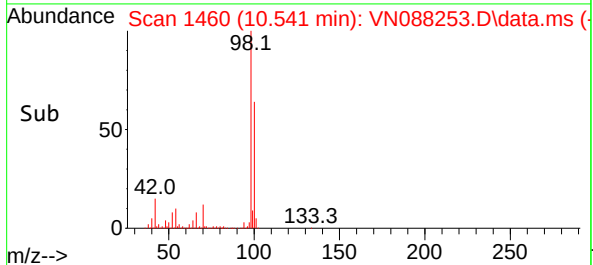
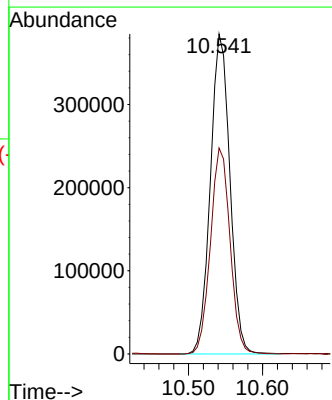
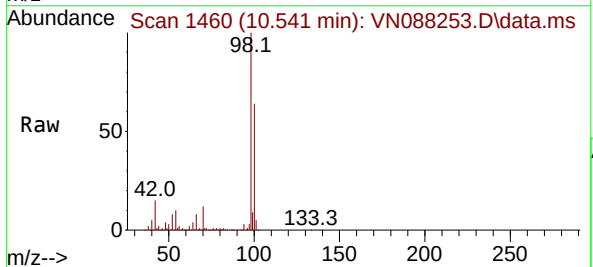
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

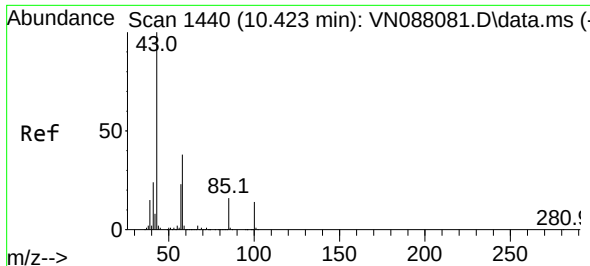
Tgt Ion: 41 Resp: 121665
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 59.3 52.9 79.3



#50
Toluene-d8
Concen: 47.694 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 98 Resp: 704831
Ion Ratio Lower Upper
98 100
100 64.4 52.8 79.2

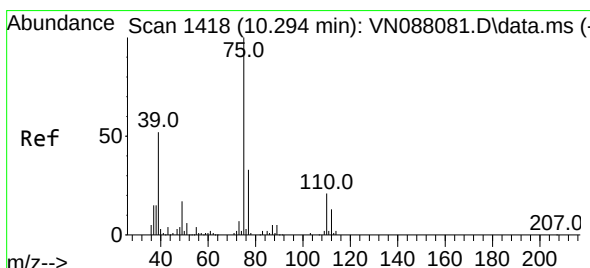
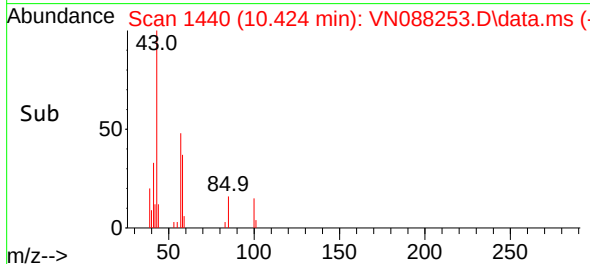
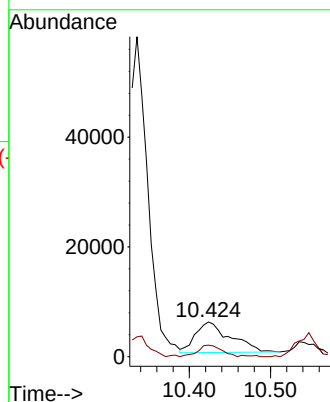
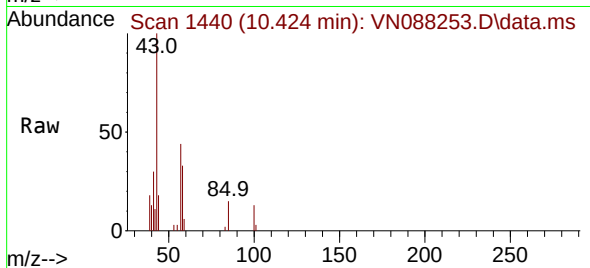




#51
4-Methyl-2-Pentanone
Concen: 2.545 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

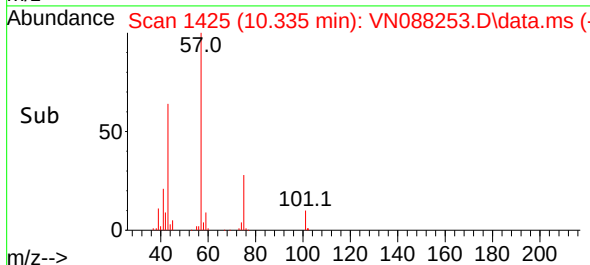
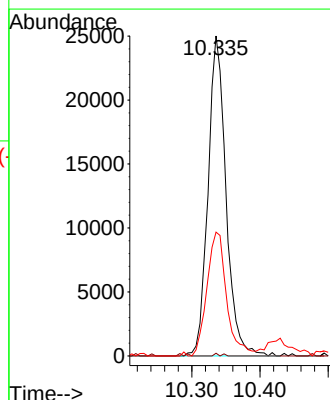
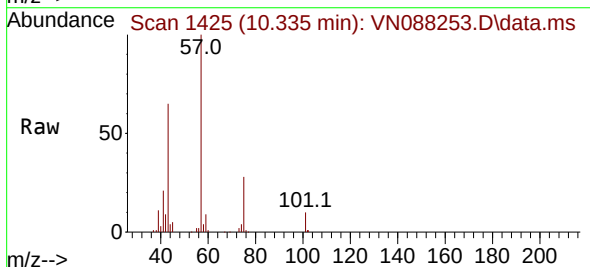
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

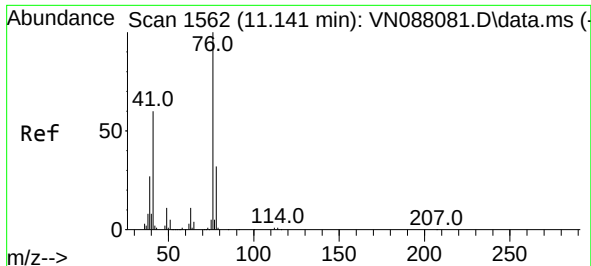
Tgt Ion: 43 Resp: 16720
Ion Ratio Lower Upper
43 100
58 25.4 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 6.616 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 75 Resp: 45937
Ion Ratio Lower Upper
75 100
77 0.8 24.6 37.0#
39 38.7 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.582 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

Instrument :

MSVOA_N

ClientSampleId :

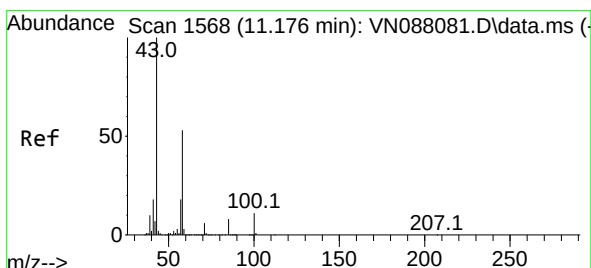
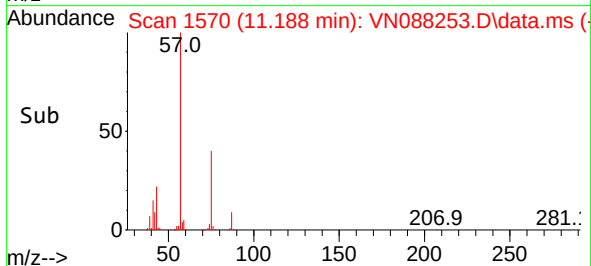
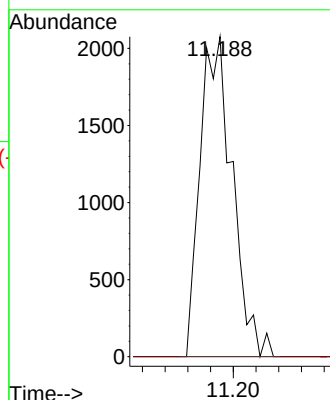
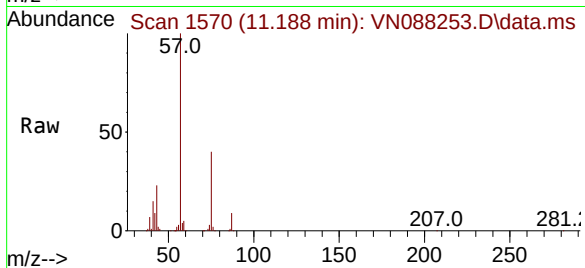
RBR200059

Tgt Ion: 76 Resp: 4078

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 16.064 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088253.D

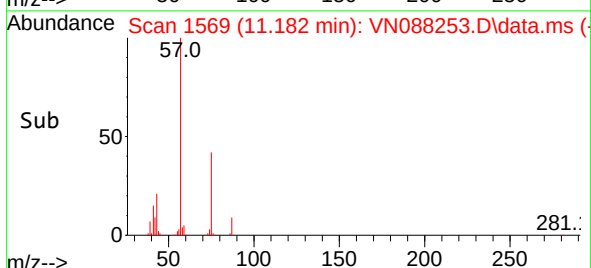
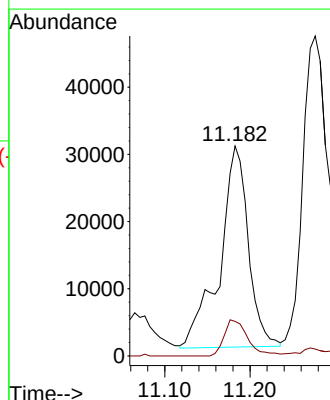
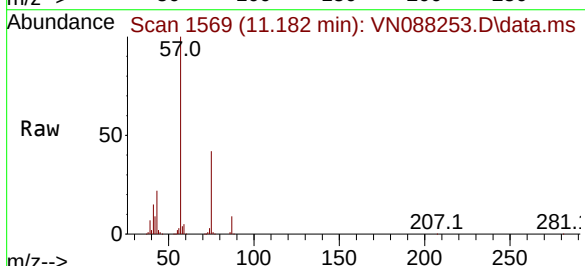
Acq: 11 Nov 2025 13:44

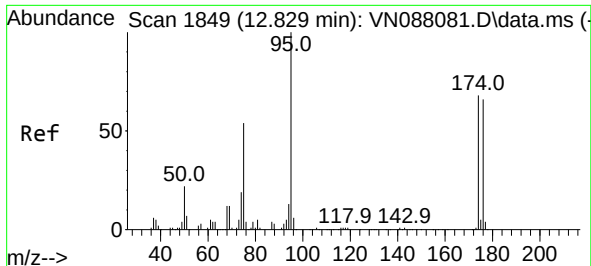
Tgt Ion: 43 Resp: 70008

Ion Ratio Lower Upper

43 100

58 14.8 25.9 77.8#

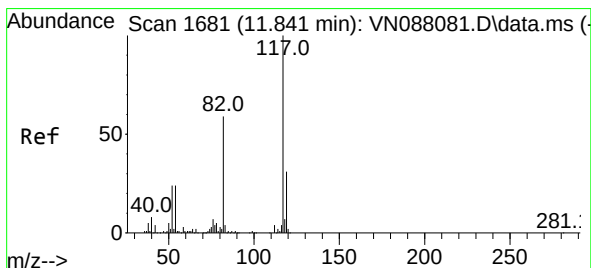
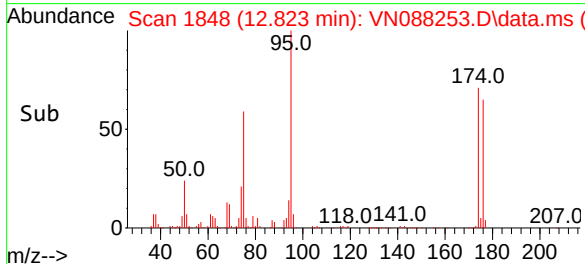
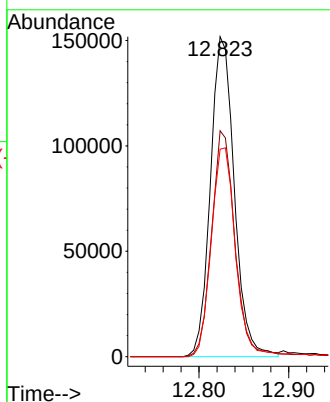
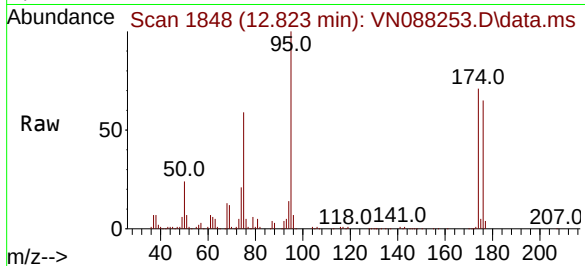




#62
4-Bromofluorobenzene
Concen: 53.808 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

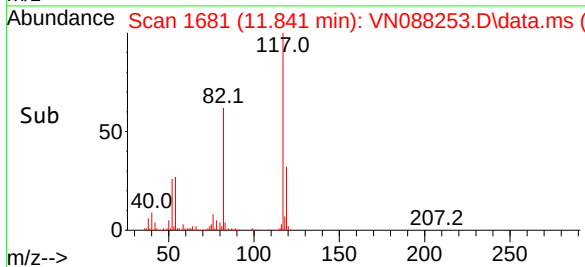
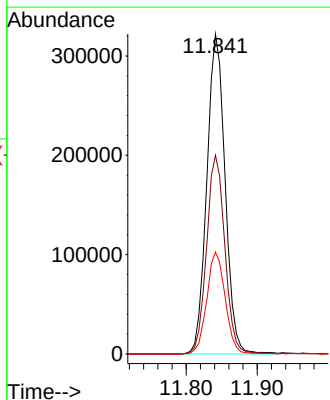
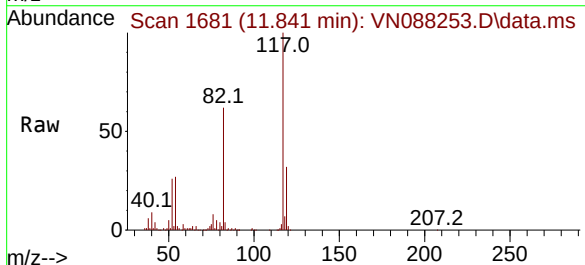
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

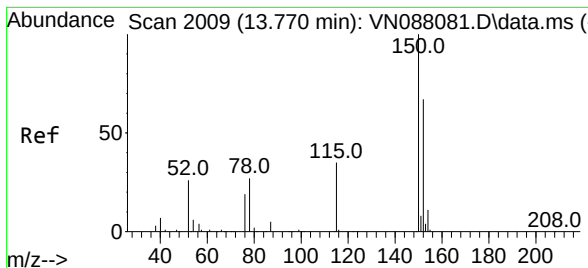
Tgt Ion: 95 Resp: 280830
Ion Ratio Lower Upper
95 100
174 69.2 0.0 138.4
176 67.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Tgt Ion: 117 Resp: 575978
Ion Ratio Lower Upper
117 100
82 62.1 47.4 71.2
119 31.8 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088253.D

Acq: 11 Nov 2025 13:44

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

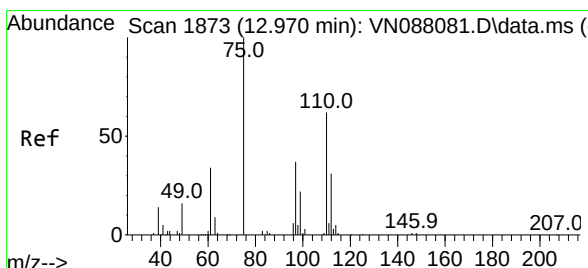
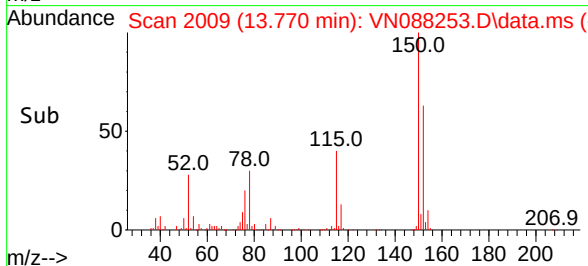
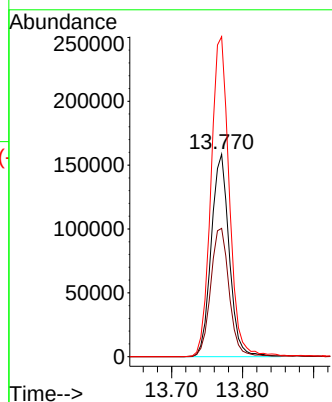
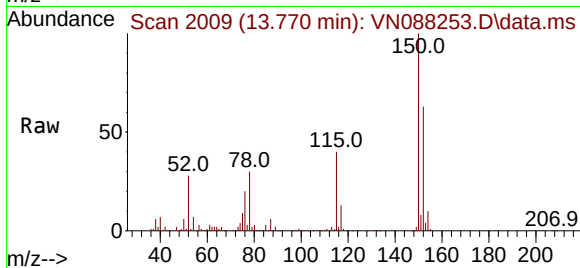
Tgt Ion:152 Resp: 278752

Ion Ratio Lower Upper

152 100

115 65.3 32.3 96.8

150 160.9 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 25.813 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN088253.D

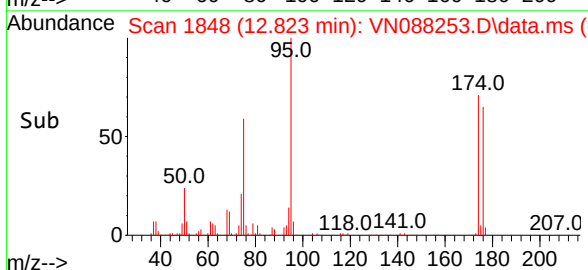
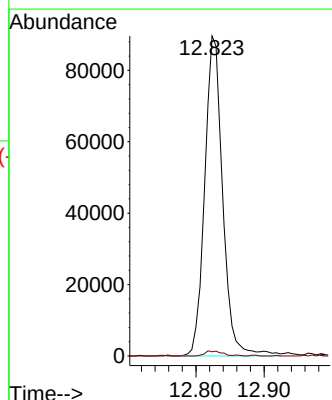
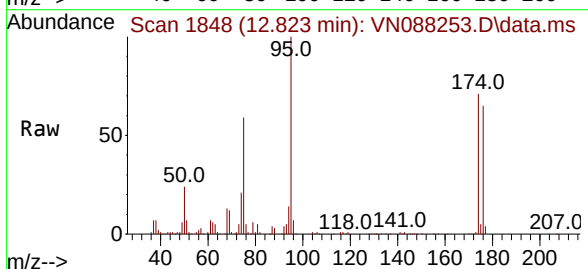
Acq: 11 Nov 2025 13:44

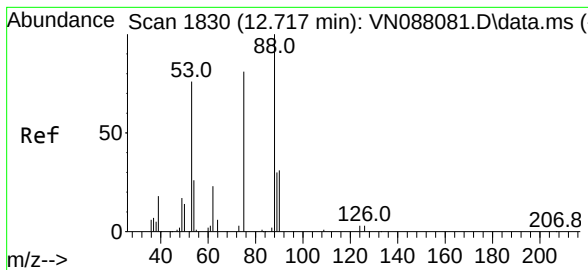
Tgt Ion: 75 Resp: 164509

Ion Ratio Lower Upper

75 100

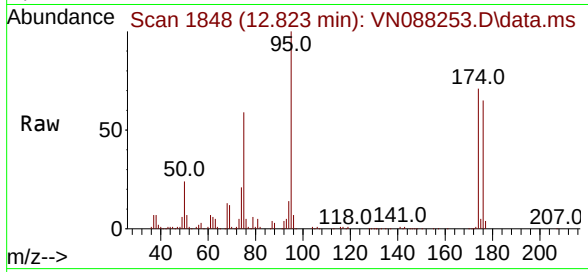
77 1.5 89.1 267.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 72.006 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN088253.D
Acq: 11 Nov 2025 13:44

Instrument :
MSVOA_N
ClientSampleId :
RBR200059



Tgt Ion: 75 Resp: 164509
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#

