

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092525\
 Data File : VN087952.D
 Acq On : 25 Sep 2025 14:17
 Operator : JC\MD
 Sample : PB169819TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 26 07:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

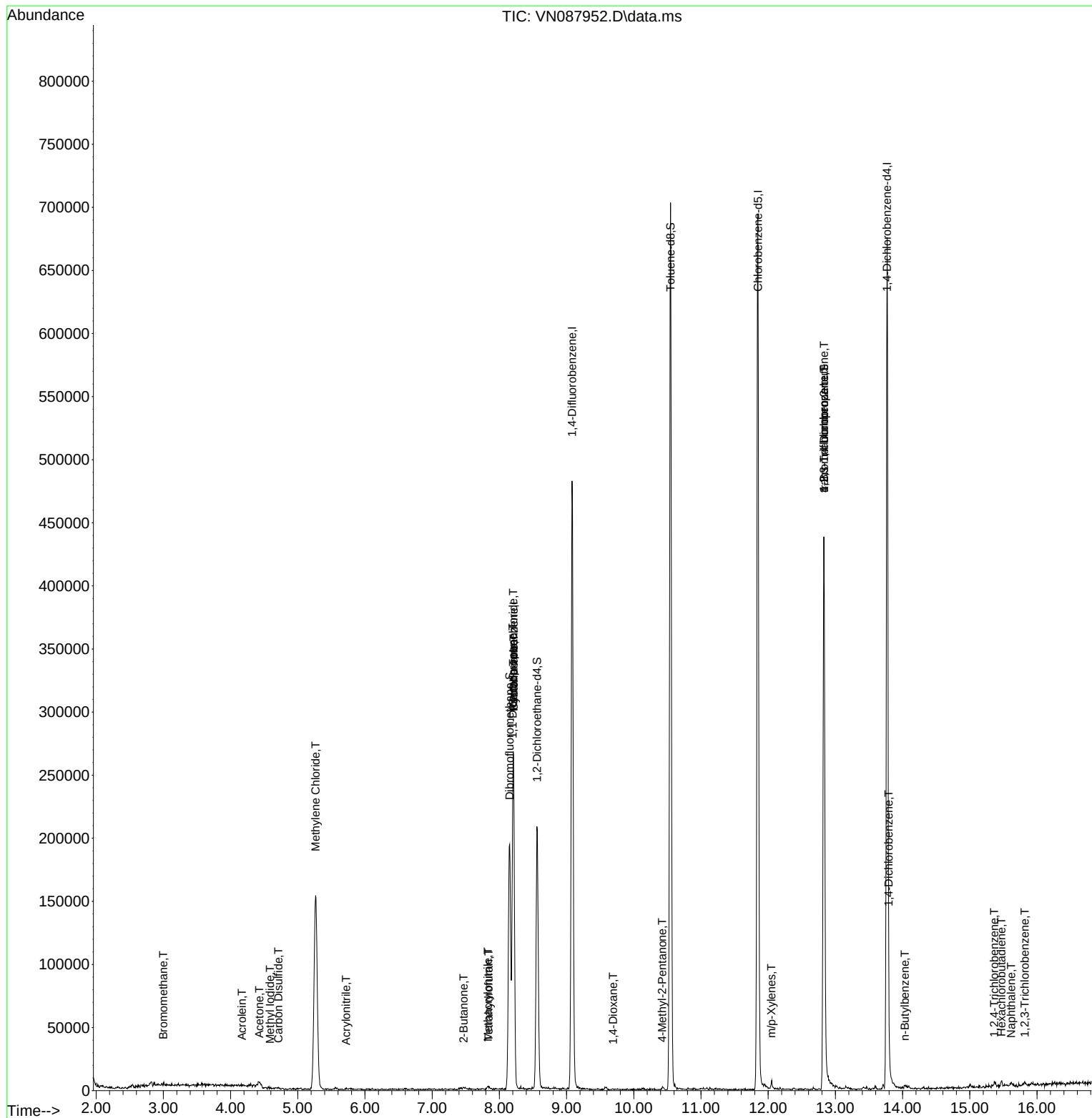
Internal Standards						
1) Pentafluorobenzene	8.212	168	190830	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	412227	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	395284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	181399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	169296	52.715	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.440%			
35) Dibromofluoromethane	8.153	113	142729	47.688	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.380%			
50) Toluene-d8	10.547	98	473532	44.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.980%			
62) 4-Bromofluorobenzene	12.829	95	163062	43.342	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 86.680%			
Target Compounds					Qvalue	
5) Bromomethane	3.000	94	888	0.620	ug/l #	65
10) Methyl Iodide	4.588	142	775	0.433	ug/l #	53
13) Acrolein	4.171	56	696	1.173	ug/l #	24
15) Acrylonitrile	5.718	53	542	0.374	ug/l #	23
16) Acetone	4.430	43	6948	5.258	ug/l	93
17) Carbon Disulfide	4.712	76	2570	0.410	ug/l #	76
20) Methylene Chloride	5.265	84	124445	46.529	ug/l	98
25) 2-Butanone	7.471	43	807	0.400	ug/l #	48
29) Tetrahydrofuran	7.841	42	1280	0.990	ug/l #	65
31) Cyclohexane	8.212	56	5539	1.538	ug/l #	57
36) 1,1-Dichloropropene	8.200	75	17215	4.783	ug/l #	48
38) Carbon Tetrachloride	8.206	117	21843	5.289	ug/l #	20
41) Methacrylonitrile	7.829	41	1210	0.495	ug/l #	35
49) 1,4-Dioxane	9.694	88	226	4.441	ug/l #	83
51) 4-Methyl-2-Pentanone	10.423	43	1804	0.389	ug/l #	68
68) m/p-Xylenes	12.047	106	1248	0.232	ug/l #	64
76) 1,2,3-Trichloropropane	12.829	75	86919	24.308	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	86919	67.499	ug/l #	9
88) 1,4-Dichlorobenzene	13.794	146	1591	0.265	ug/l #	1
89) n-Butylbenzene	14.035	91	2154	0.223	ug/l	90
93) 1,2,4-Trichlorobenzene	15.364	180	1392	0.419	ug/l #	81
94) Hexachlorobutadiene	15.470	225	724	0.592	ug/l	85
95) Naphthalene	15.617	128	2717	0.255	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.817	180	1206	0.373	ug/l	91

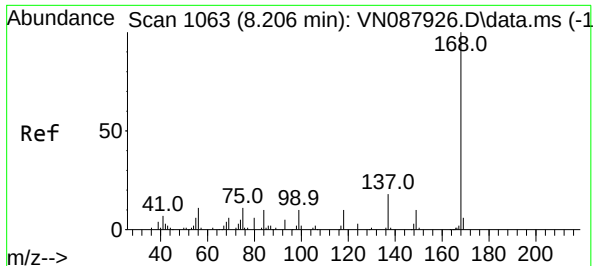
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092525\
Data File : VN087952.D
Acq On : 25 Sep 2025 14:17
Operator : JC\MD
Sample : PB169819TB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 26 07:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

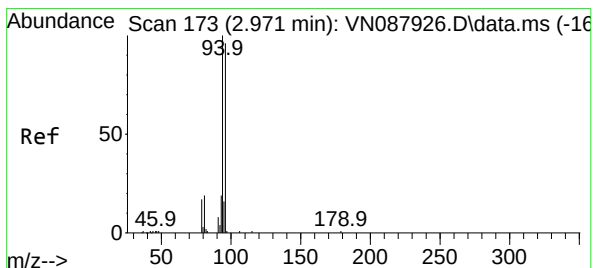
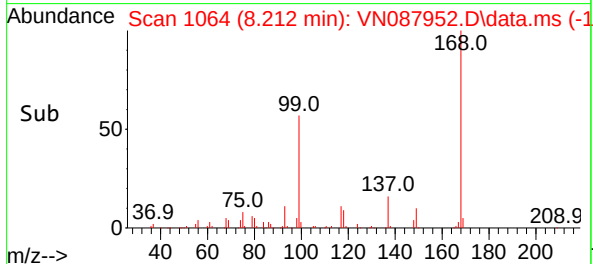
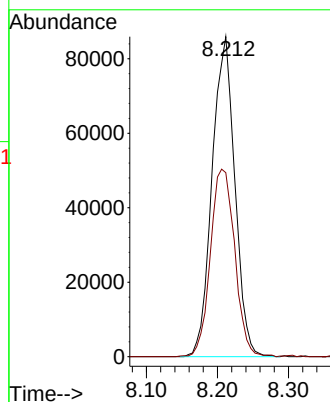
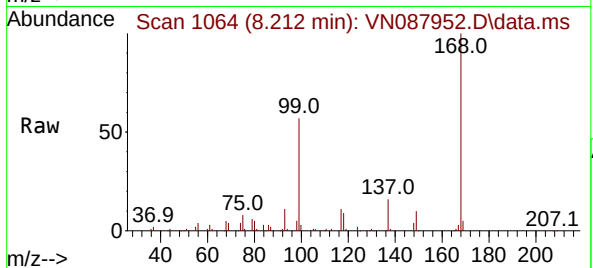




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

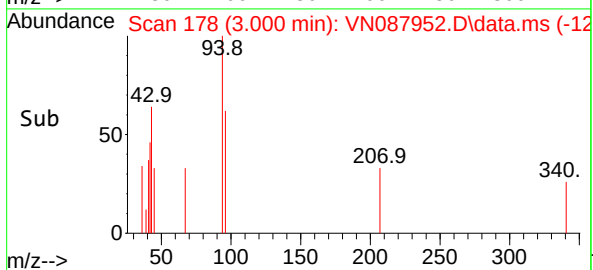
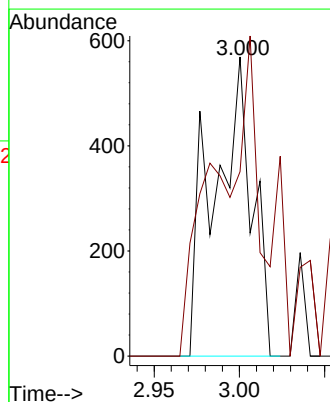
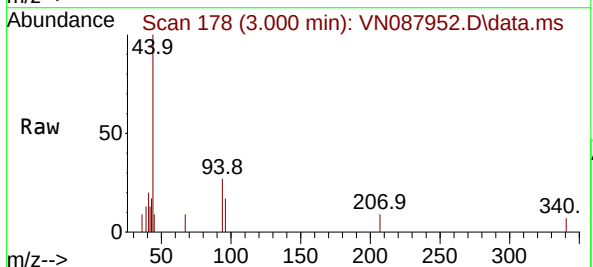
Instrument :
MSVOA_N
ClientSampleId :

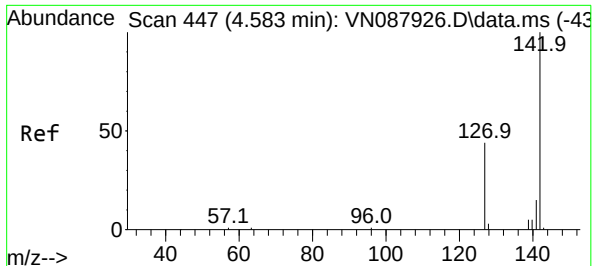
Tgt Ion:168 Resp: 190830
Ion Ratio Lower Upper
168 100
99 57.3 52.2 78.2



#5
Bromomethane
Concen: 0.620 ug/l
RT: 3.000 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

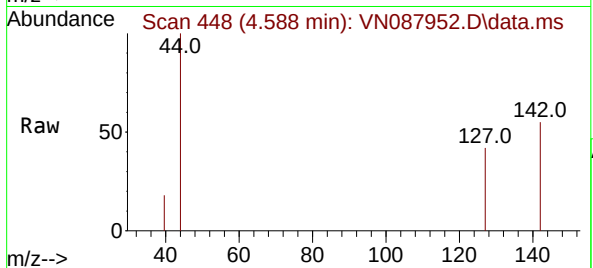
Tgt Ion: 94 Resp: 888
Ion Ratio Lower Upper
94 100
96 61.7 76.8 115.2#



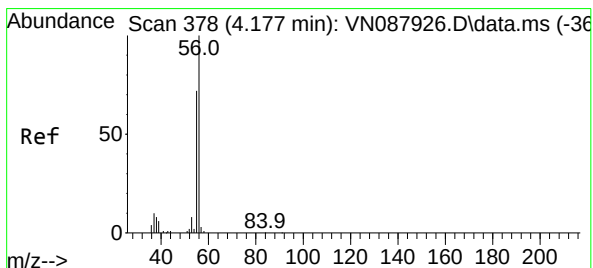
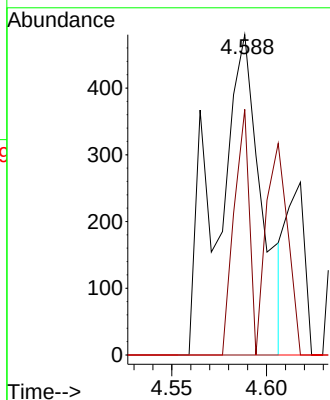
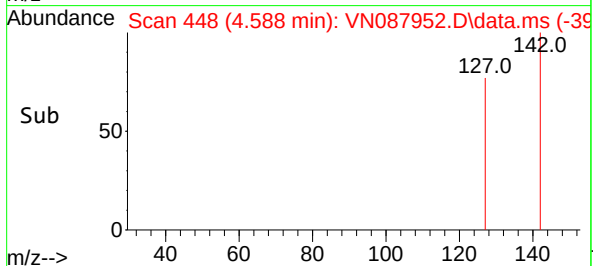


#10
Methyl Iodide
Concen: 0.433 ug/l
RT: 4.588 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Instrument :
MSVOA_N
ClientSampleId :

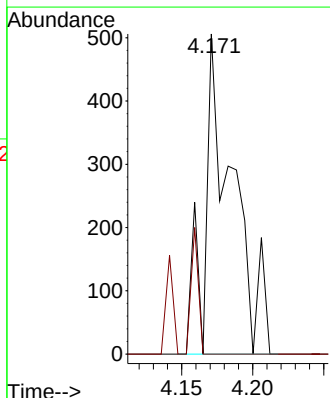
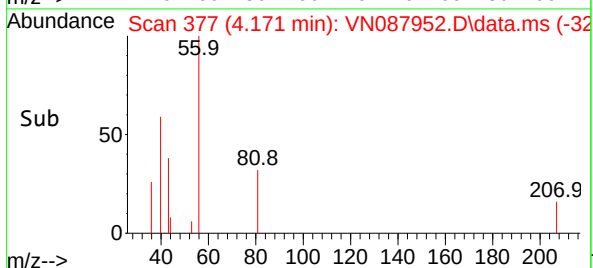
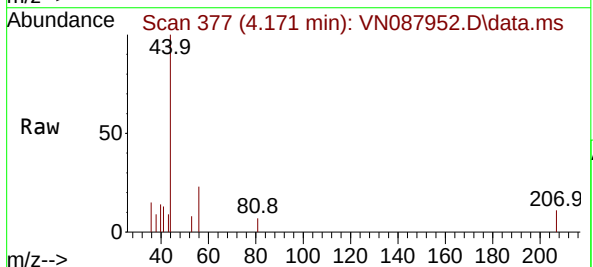


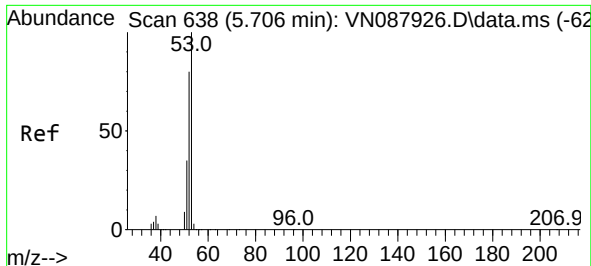
Tgt Ion:142 Resp: 775
Ion Ratio Lower Upper
142 100
127 76.7 35.3 52.9#
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 1.173 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

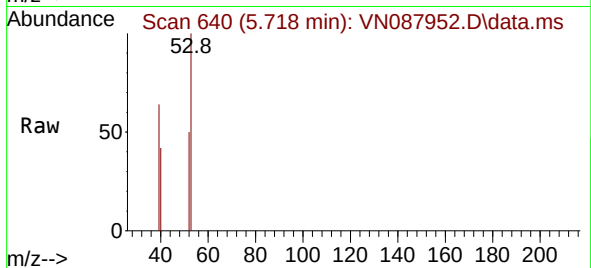
Tgt Ion: 56 Resp: 696
Ion Ratio Lower Upper
56 100
55 10.2 59.3 88.9#



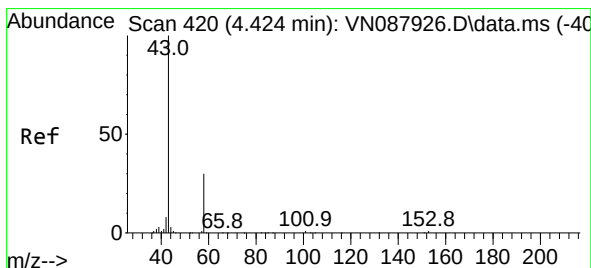
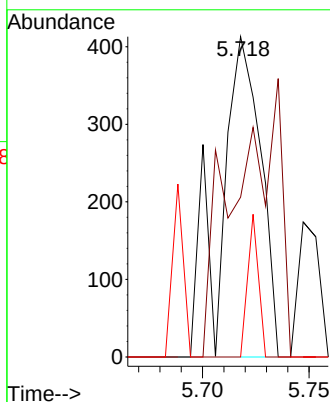
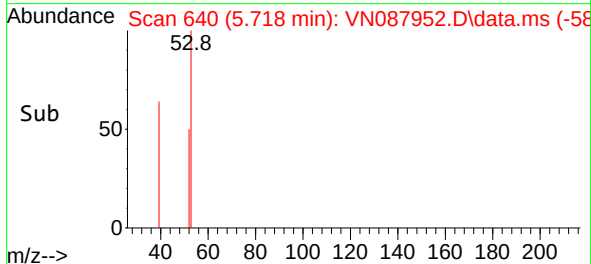


#15
Acrylonitrile
Concen: 0.374 ug/l
RT: 5.718 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Instrument :
MSVOA_N
ClientSampleId :

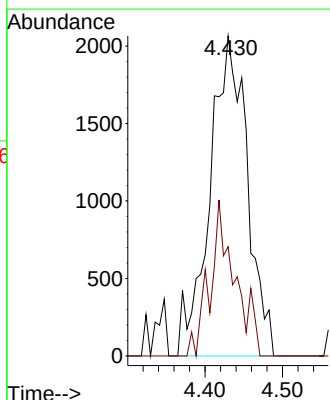
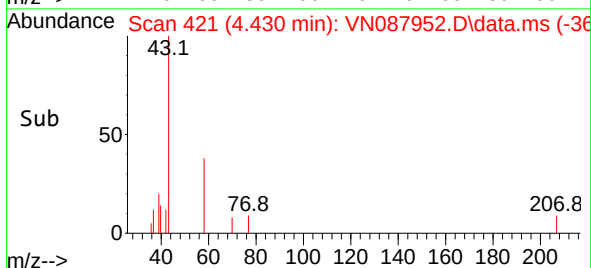
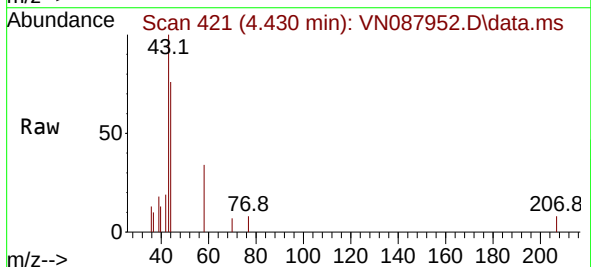


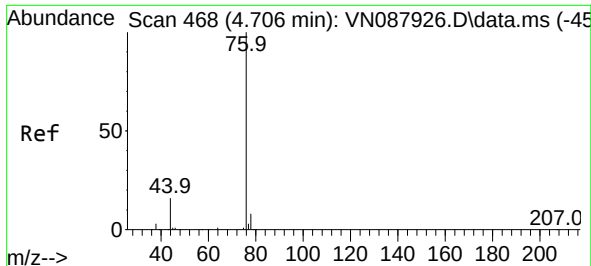
Tgt Ion: 53 Resp: 542
Ion Ratio Lower Upper
53 100
52 0.0 66.6 99.8#
51 12.0 29.0 43.4#



#16
Acetone
Concen: 5.258 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion: 43 Resp: 6948
Ion Ratio Lower Upper
43 100
58 34.1 24.1 36.1

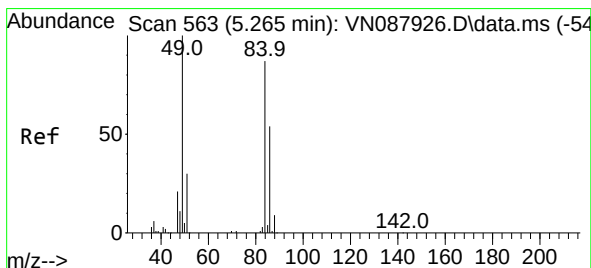
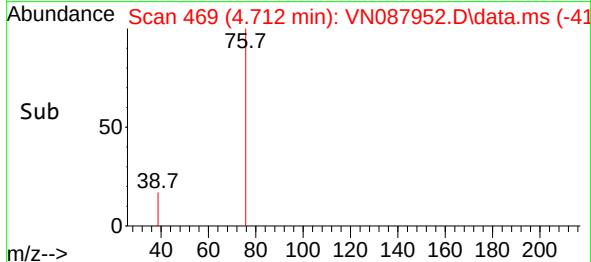
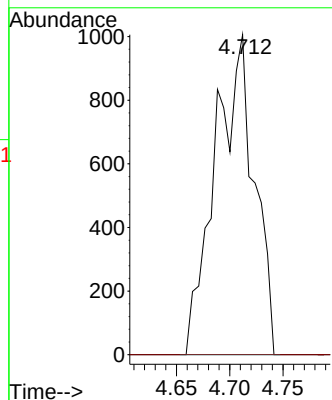
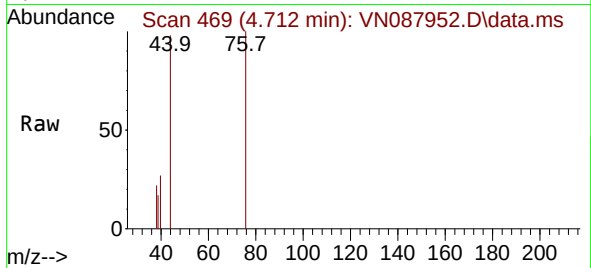




#17
Carbon Disulfide
Concen: 0.410 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

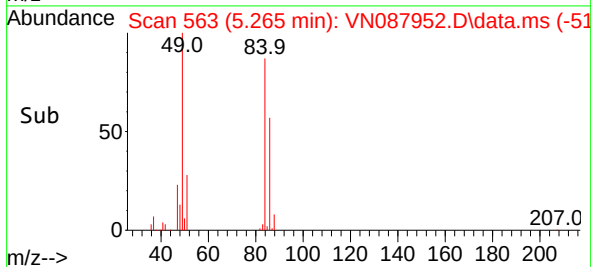
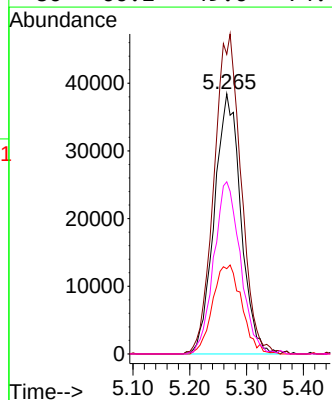
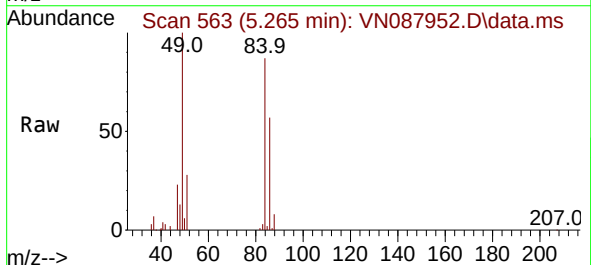
Instrument :
MSVOA_N
ClientSampleId :

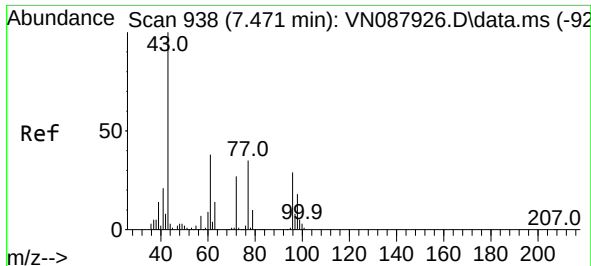
Tgt Ion: 76 Resp: 2570
Ion Ratio Lower Upper
76 100
78 0.0 6.7 10.1#



#20
Methylene Chloride
Concen: 46.529 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

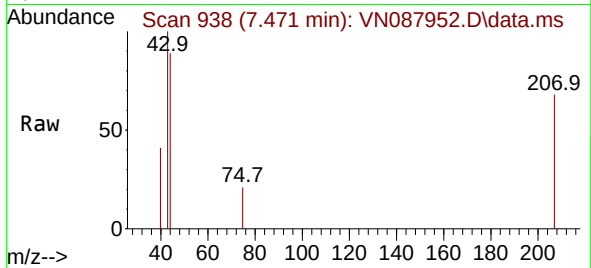
Tgt Ion: 84 Resp: 124445
Ion Ratio Lower Upper
84 100
49 115.2 92.1 138.1
51 32.8 27.7 41.5
86 66.2 49.6 74.4



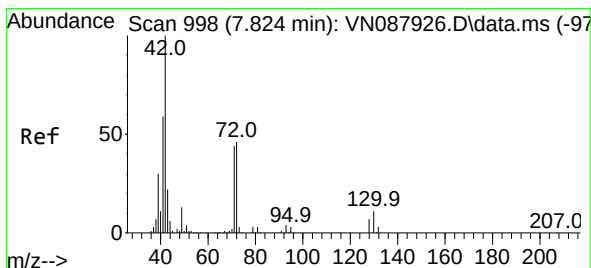
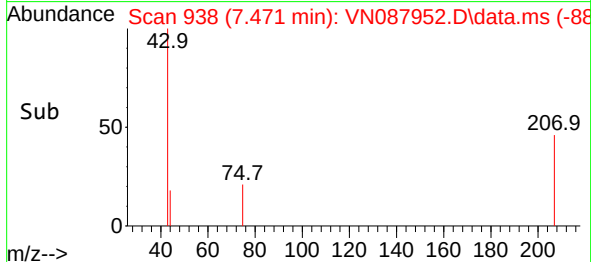
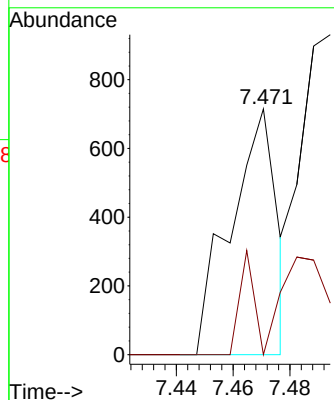


#25
2-Butanone
Concen: 0.400 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Instrument :
MSVOA_N
ClientSampleId :

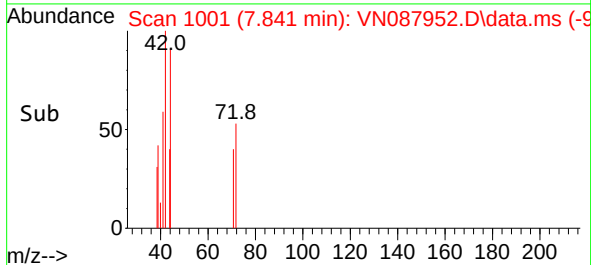
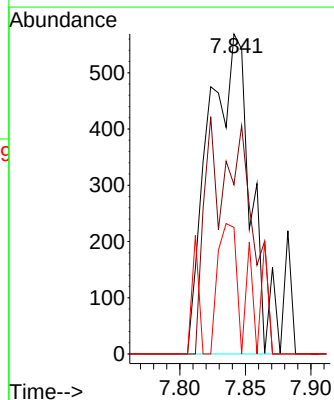
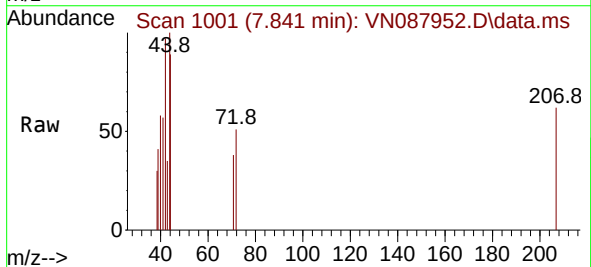


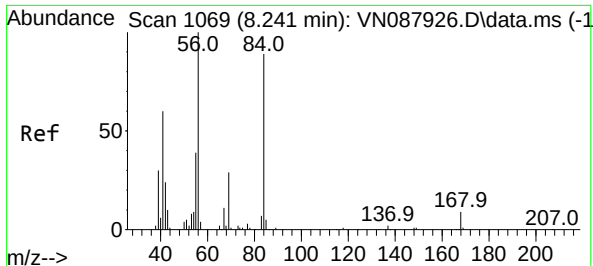
Tgt Ion: 43 Resp: 807
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.990 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.017 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

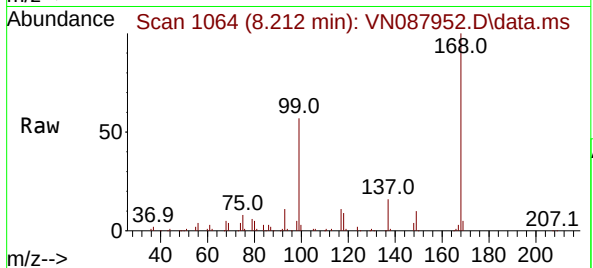
Tgt Ion: 42 Resp: 1280
Ion Ratio Lower Upper
42 100
72 24.8 36.5 54.7#
71 17.7 33.8 50.8#



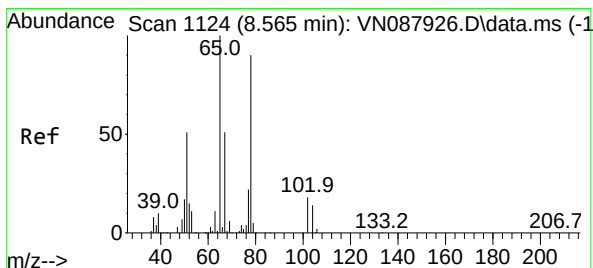
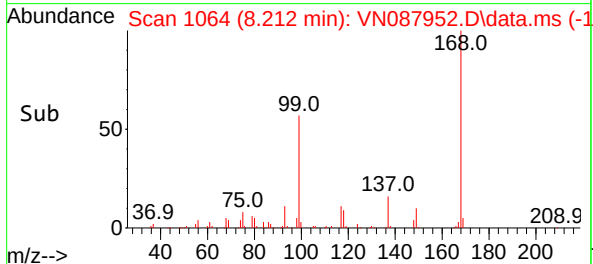
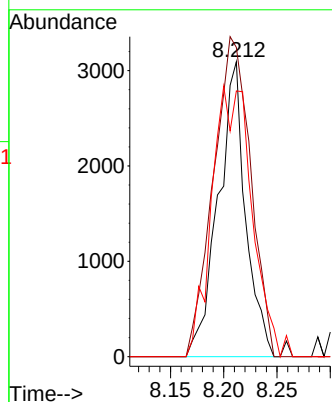


#31
Cyclohexane
Concen: 1.538 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.030 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Instrument :
MSVOA_N
ClientSampleId :

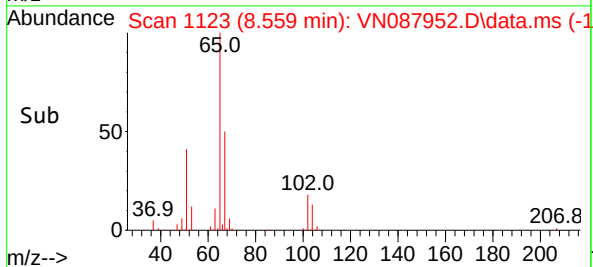
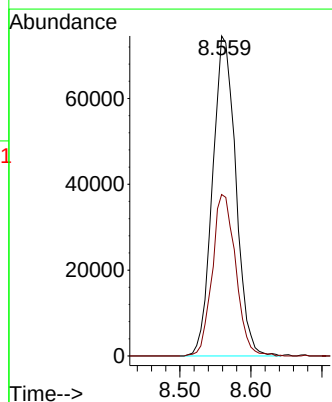
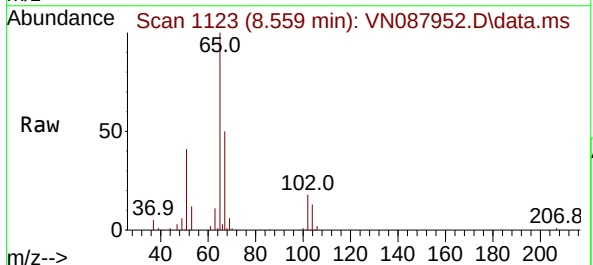


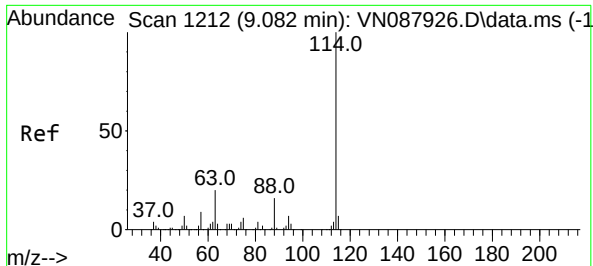
Tgt Ion: 56 Resp: 5539
Ion Ratio Lower Upper
56 100
69 104.9 23.4 35.0#
84 98.5 70.8 106.2



#33
1,2-Dichloroethane-d4
Concen: 52.715 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion: 65 Resp: 169296
Ion Ratio Lower Upper
65 100
67 50.8 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

Instrument :

MSVOA_N

ClientSampleId :

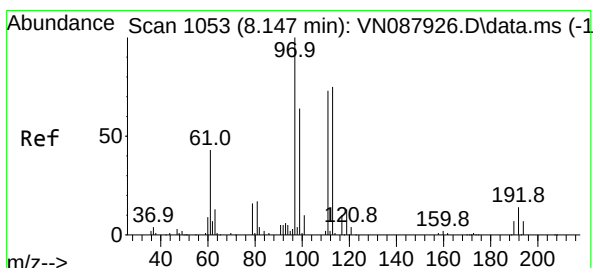
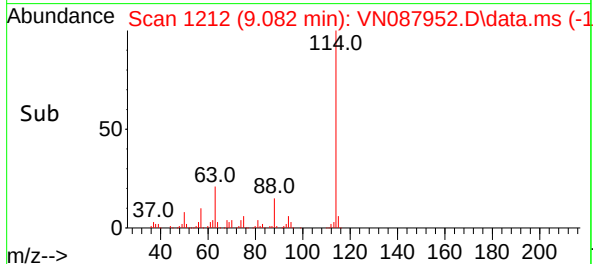
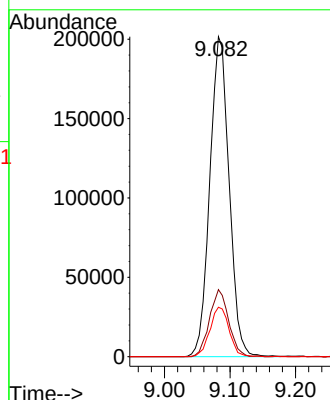
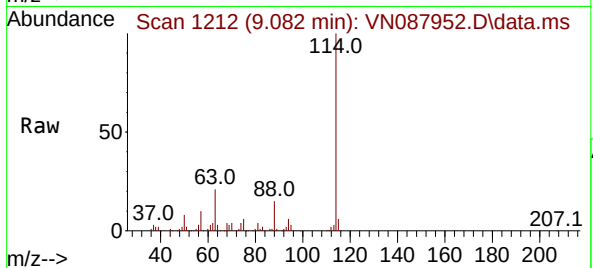
Tgt Ion:114 Resp: 412227

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.0

88 15.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 47.688 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

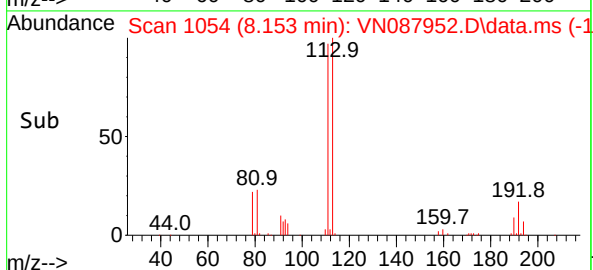
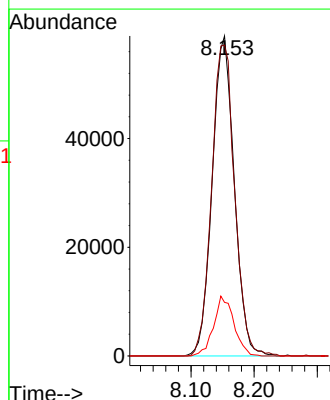
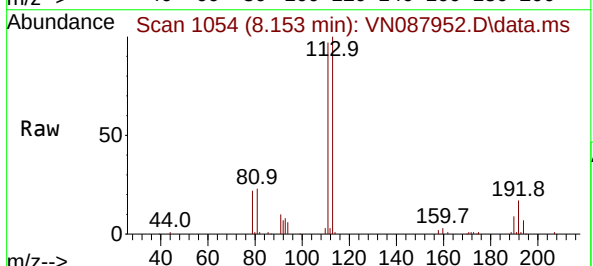
Tgt Ion:113 Resp: 142729

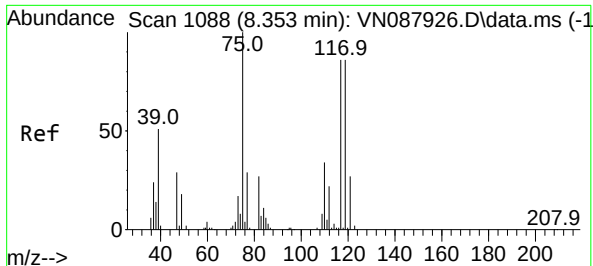
Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.2

192 17.2 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087952.D

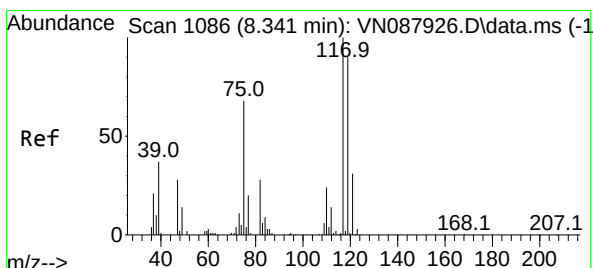
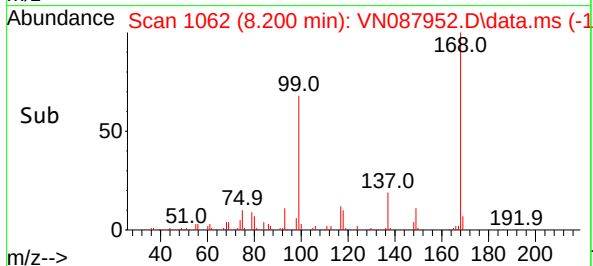
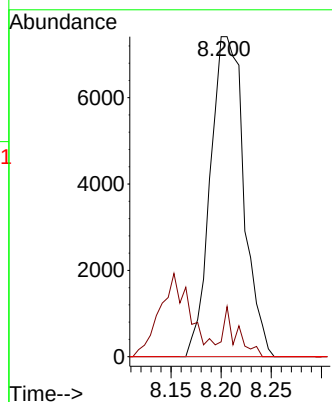
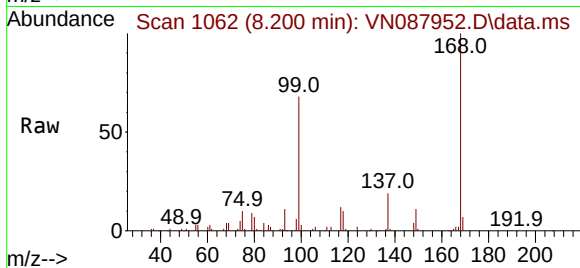
Acq: 25 Sep 2025 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	17215
Ion	Ratio	Lower	Upper
75	100		
110	6.5	17.1	51.3#
77	0.0	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 5.289 ug/l

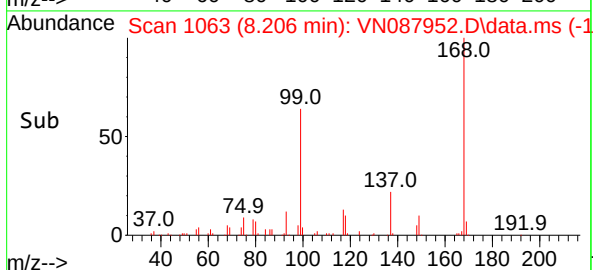
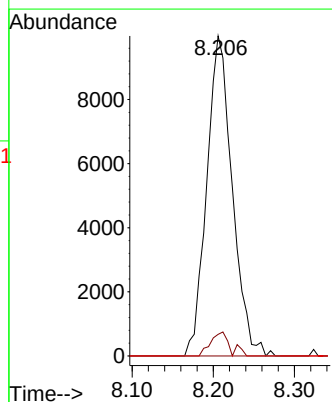
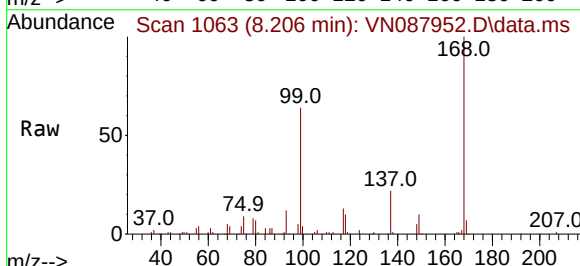
RT: 8.206 min Scan# 1063

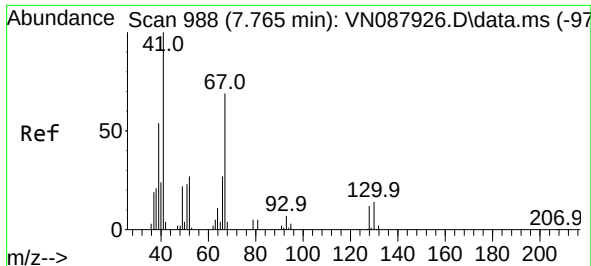
Delta R.T. -0.135 min

Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

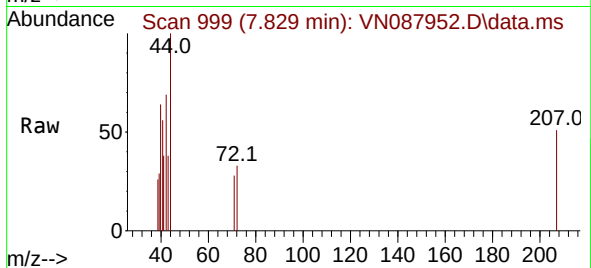
Tgt Ion:	117	Resp:	21843
Ion	Ratio	Lower	Upper
117	100		
119	6.8	72.1	108.1#
121	0.0	24.6	36.8#



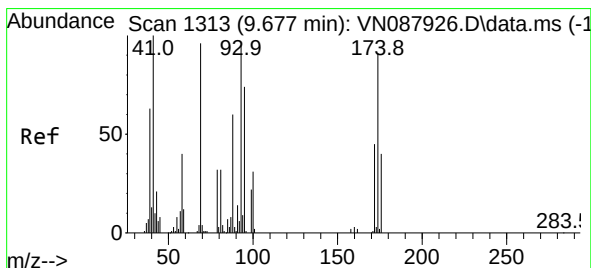
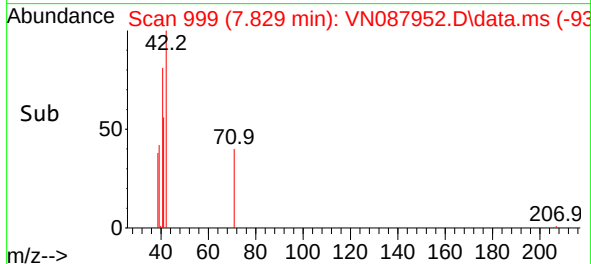
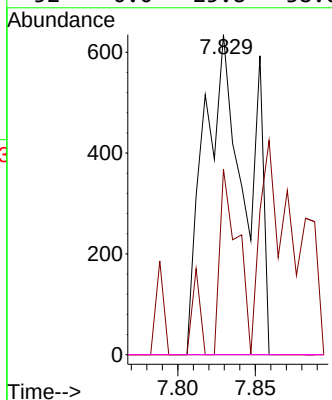


#41
Methacrylonitrile
Concen: 0.495 ug/l
RT: 7.829 min Scan# 999
Delta R.T. 0.065 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Instrument :
MSVOA_N
ClientSampleId :

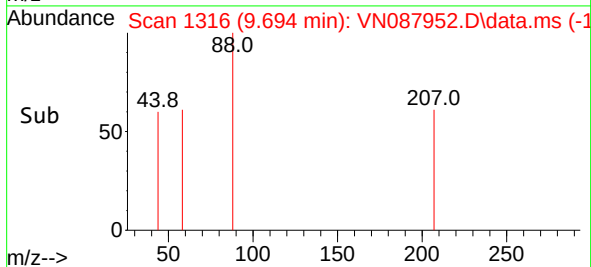
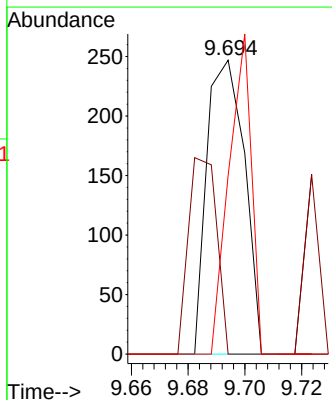
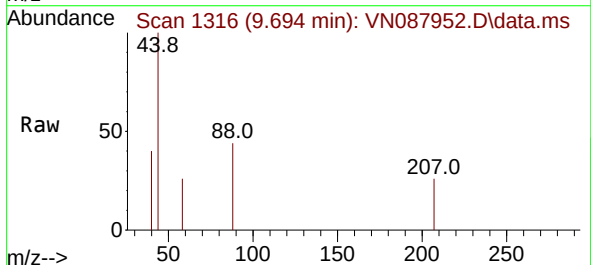


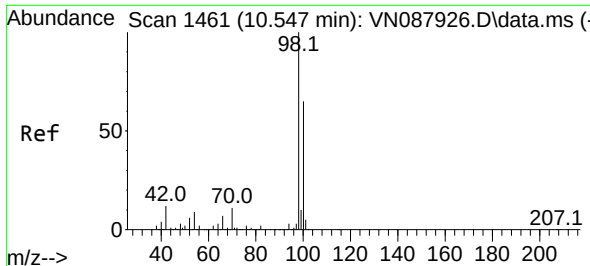
Tgt Ion:	41	Resp:	1210
Ion	Ratio	Lower	Upper
41	100		
39	24.3	43.5	65.3#
67	0.0	57.6	86.4#
52	0.0	25.8	38.6#



#49
1,4-Dioxane
Concen: 4.441 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.017 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion:	88	Resp:	226
Ion	Ratio	Lower	Upper
88	100		
43	50.4	22.6	33.8#
58	65.5	57.4	86.2

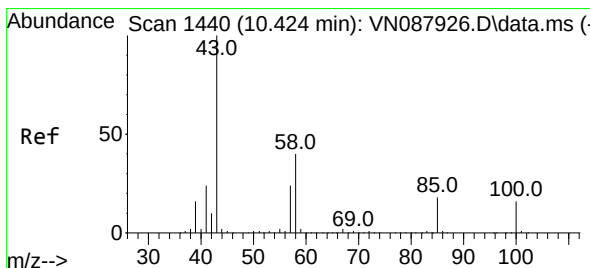
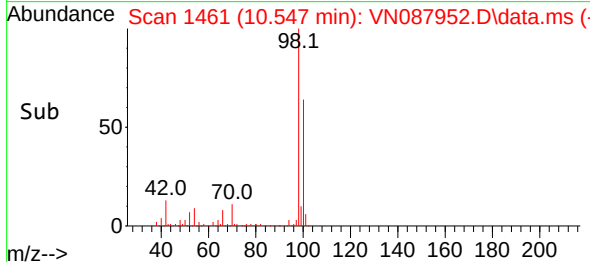
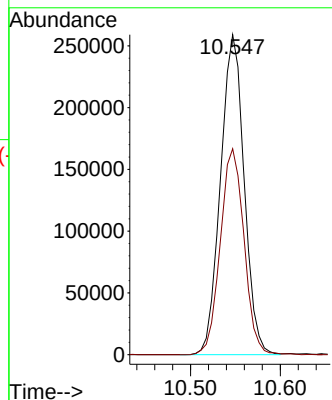
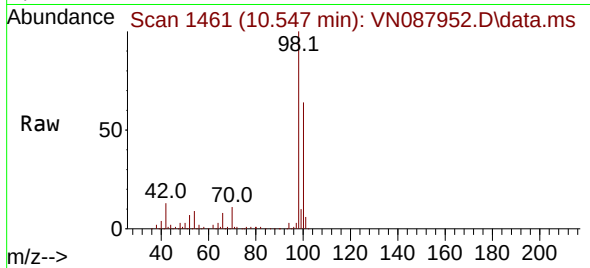




#50
Toluene-d8
Concen: 44.990 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

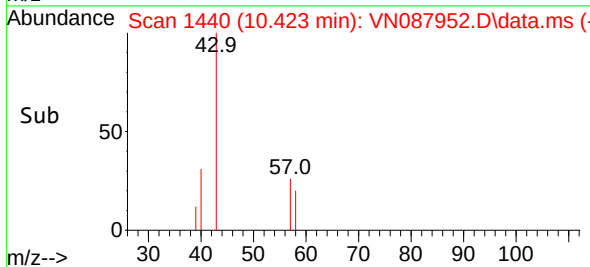
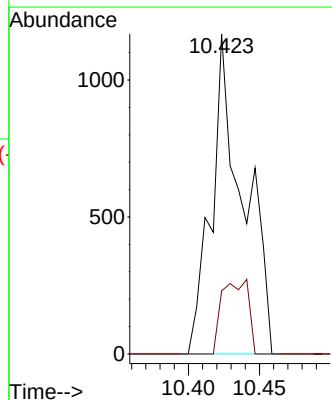
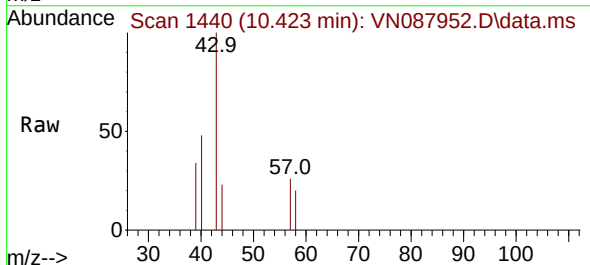
Instrument :
MSVOA_N
ClientSampleId :

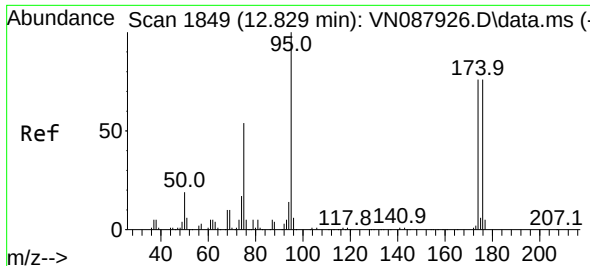
Tgt Ion: 98 Resp: 473532
Ion Ratio Lower Upper
98 100
100 64.7 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.389 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion: 43 Resp: 1804
Ion Ratio Lower Upper
43 100
58 19.5 31.0 46.6#

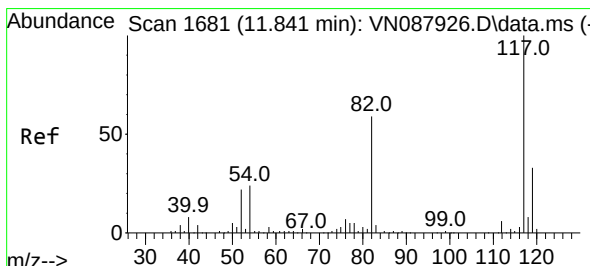
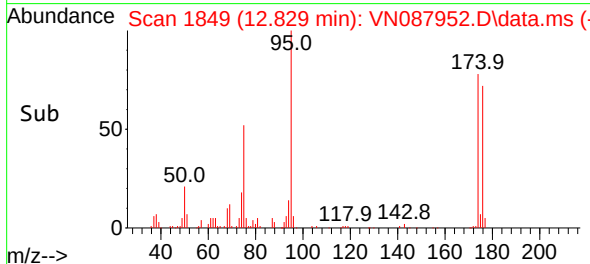
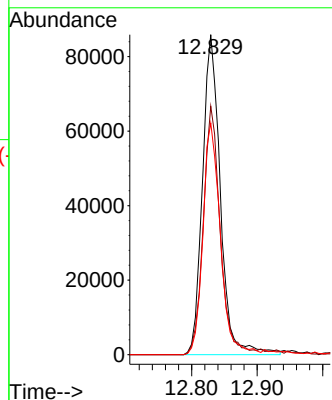
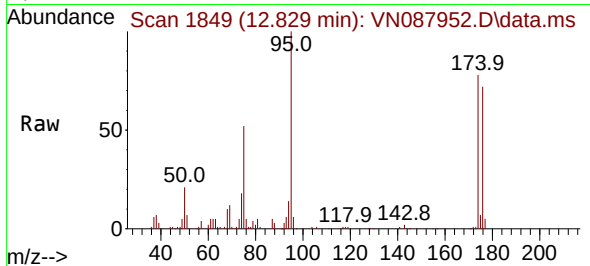




#62
4-Bromofluorobenzene
Concen: 43.342 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

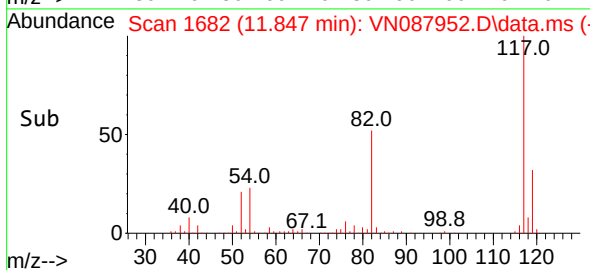
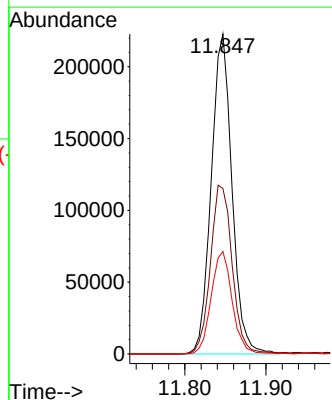
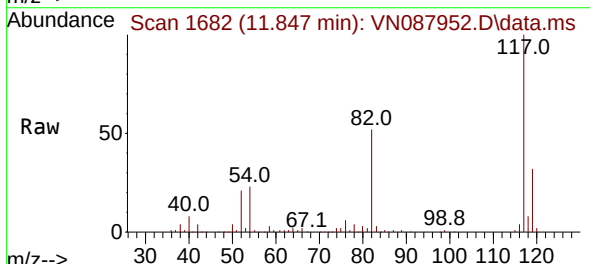
Instrument :
MSVOA_N
ClientSampleId :

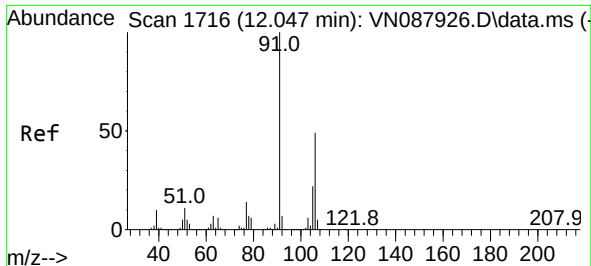
Tgt Ion: 95 Resp: 163062
Ion Ratio Lower Upper
95 100
174 74.4 0.0 159.2
176 70.8 0.0 152.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion: 117 Resp: 395284
Ion Ratio Lower Upper
117 100
82 51.7 47.0 70.4
119 32.0 26.1 39.1

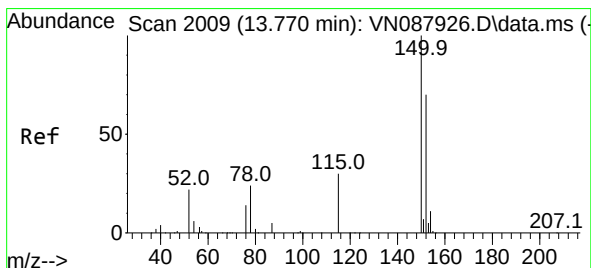
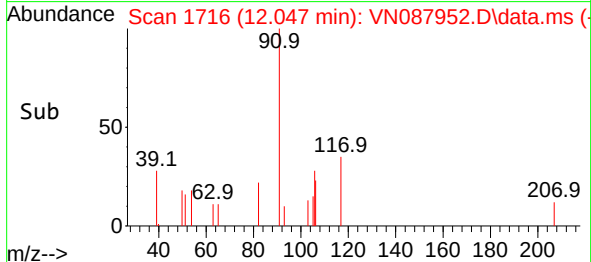
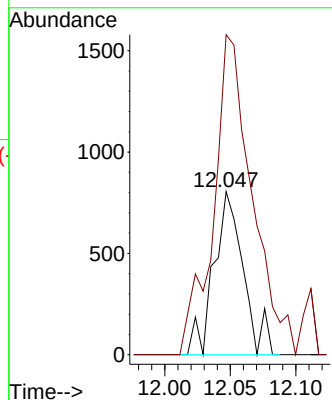
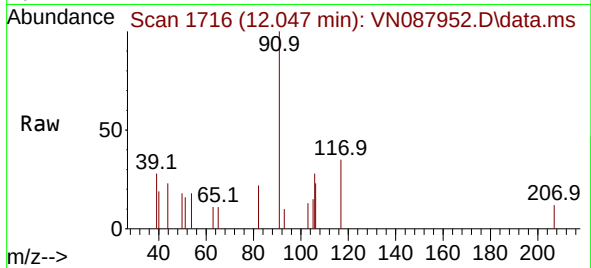




#68
m/p-Xylenes
Concen: 0.232 ug/l
RT: 12.047 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

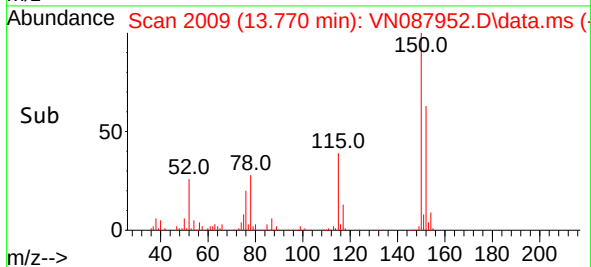
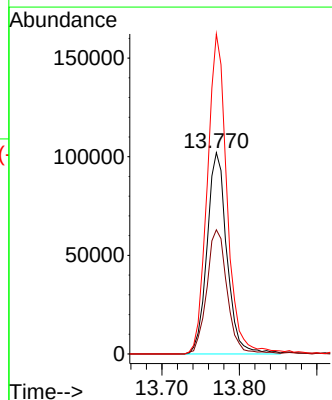
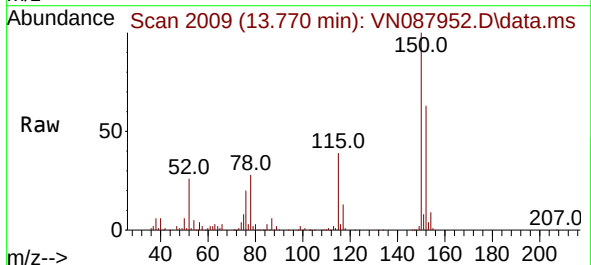
Instrument :
MSVOA_N
ClientSampleId :

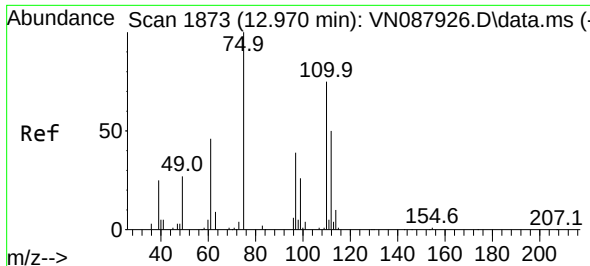
Tgt Ion:106 Resp: 1248
Ion Ratio Lower Upper
106 100
91 259.3 162.9 244.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

Tgt Ion:152 Resp: 181399
Ion Ratio Lower Upper
152 100
115 63.5 29.9 89.7
150 159.2 0.0 335.0

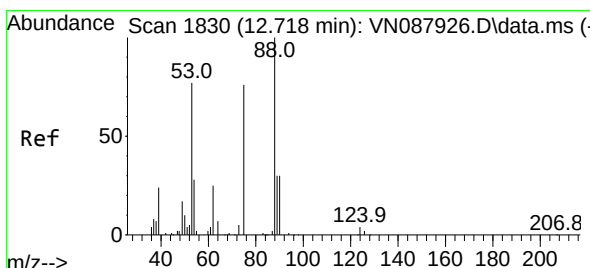
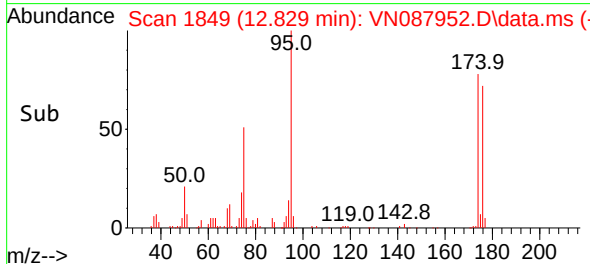
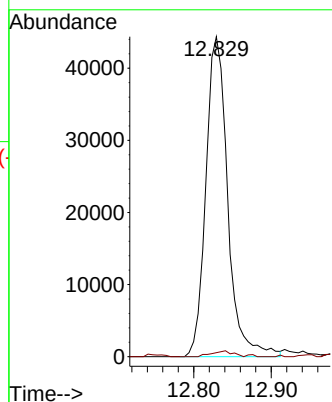
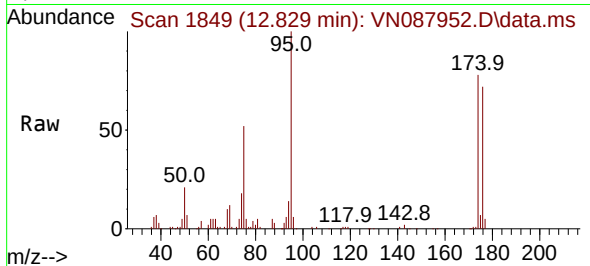




#76
1,2,3-Trichloropropane
Concen: 24.308 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

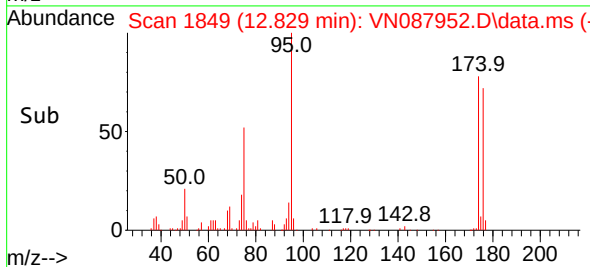
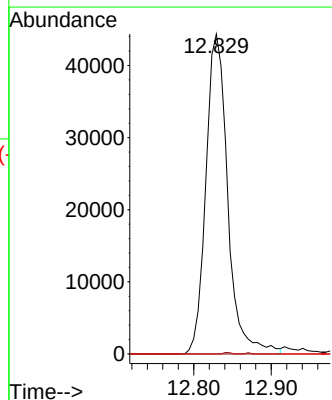
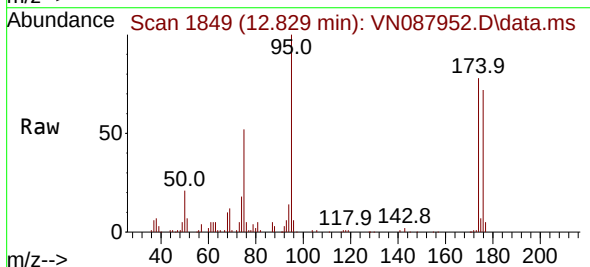
Instrument :
MSVOA_N
ClientSampleId :

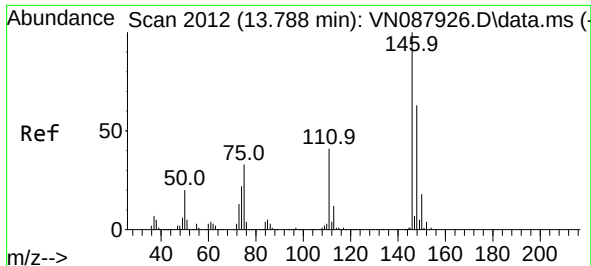
Tgt Ion: 75 Resp: 86919
Ion Ratio Lower Upper
75 100
77 1.7 89.5 268.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.499 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

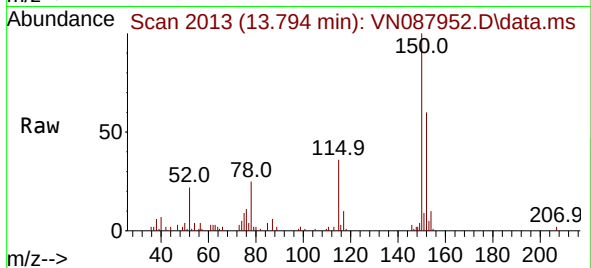
Tgt Ion: 75 Resp: 86919
Ion Ratio Lower Upper
75 100
53 0.1 82.0 123.0#
89 0.0 36.1 54.1#



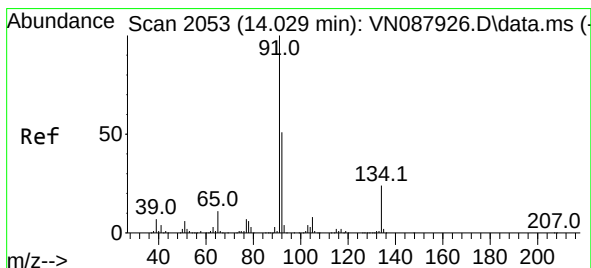
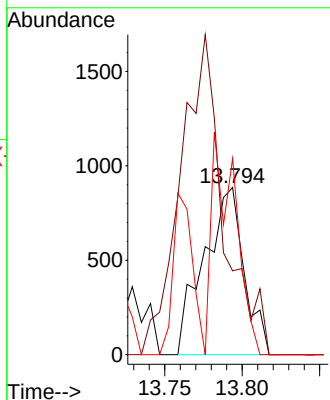
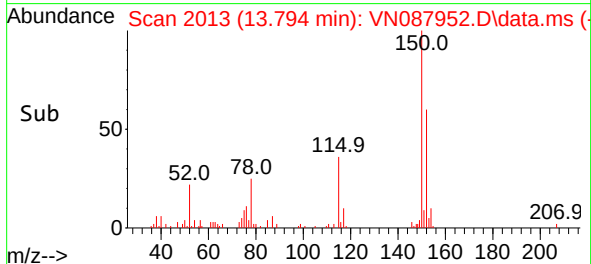


#88
1,4-Dichlorobenzene
Concen: 0.265 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17

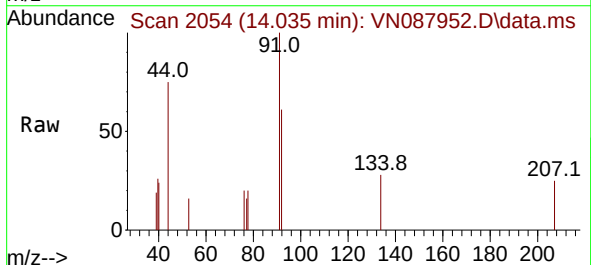
Instrument :
MSVOA_N
ClientSampleId :



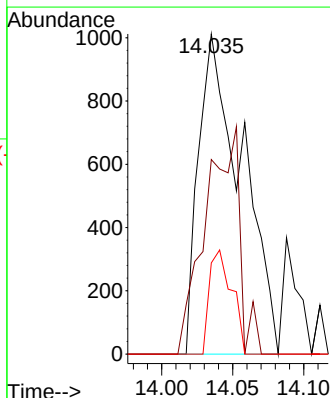
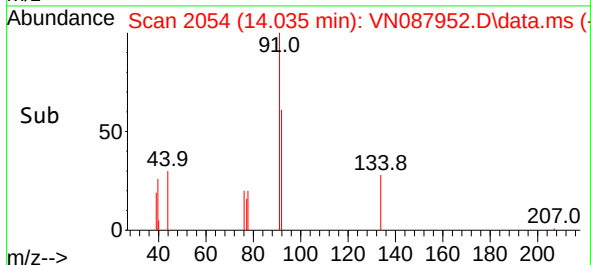
Tgt Ion:146 Resp: 1591
Ion Ratio Lower Upper
146 100
111 205.5 20.5 61.5#
148 78.9 32.8 98.4

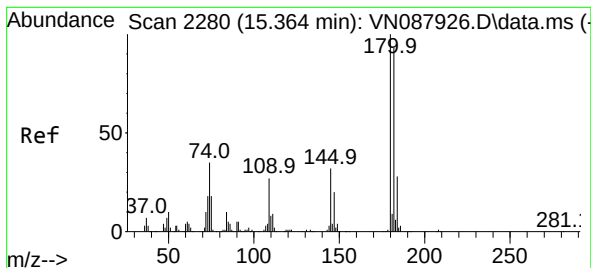


#89
n-Butylbenzene
Concen: 0.223 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087952.D
Acq: 25 Sep 2025 14:17



Tgt Ion: 91 Resp: 2154
Ion Ratio Lower Upper
91 100
92 56.2 25.9 77.8
134 16.7 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.419 ug/l

RT: 15.364 min Scan# 21

Delta R.T. -0.000 min

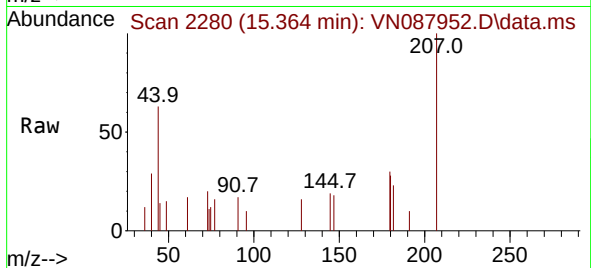
Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

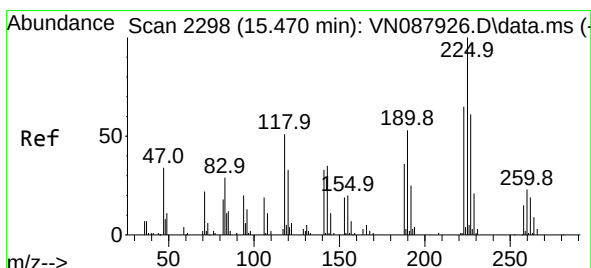
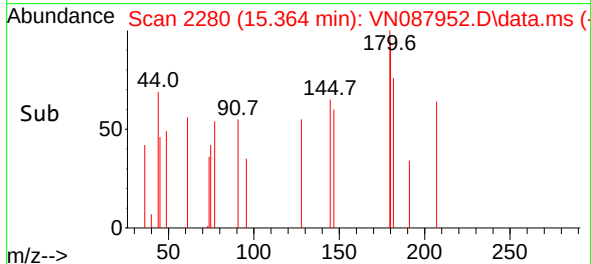
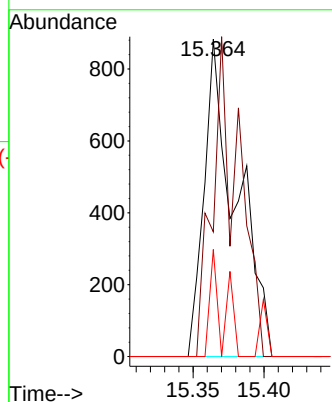
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	180	Resp:	1392
Ion Ratio	Lower	Upper	
180	100		
182	82.8	48.5	145.5
145	13.6	15.9	47.6#



#94

Hexachlorobutadiene

Concen: 0.592 ug/l

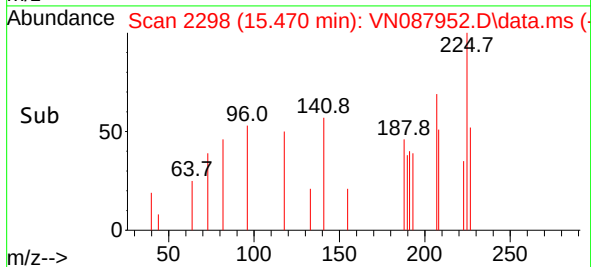
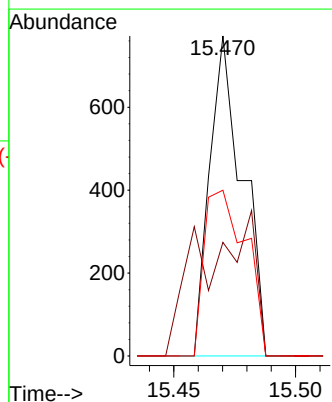
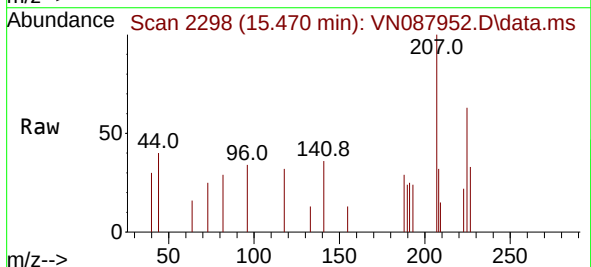
RT: 15.470 min Scan# 2298

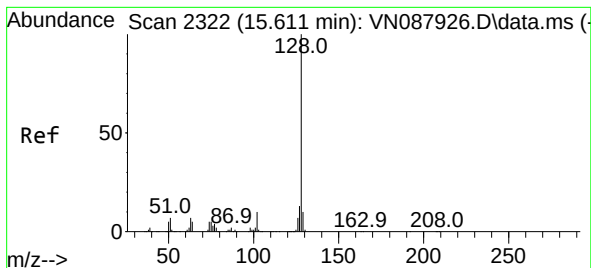
Delta R.T. -0.000 min

Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

Tgt Ion:	225	Resp:	724
Ion Ratio	Lower	Upper	
225	100		
223	41.4	31.8	95.4
227	65.3	31.9	95.9





#95

Naphthalene

Concen: 0.255 ug/l

RT: 15.617 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087952.D

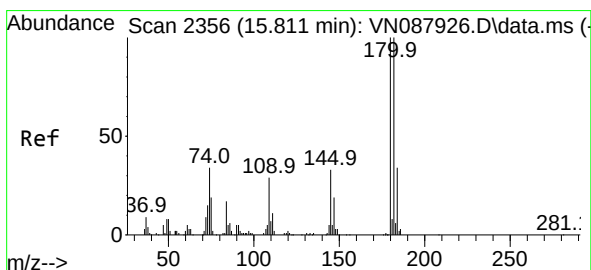
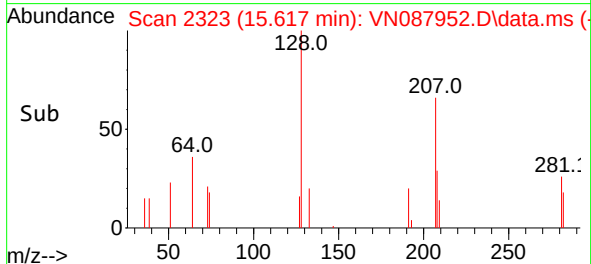
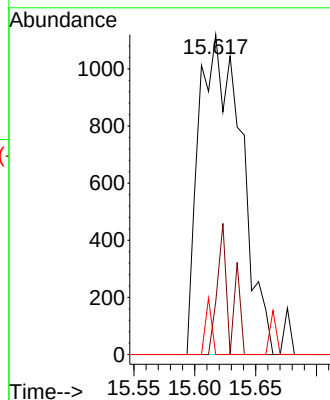
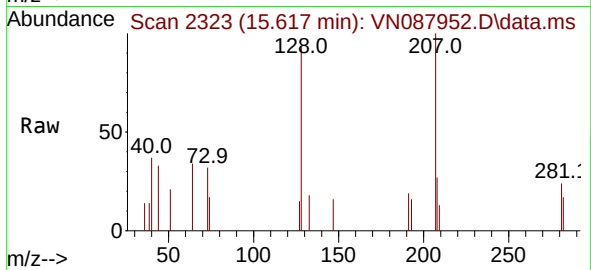
Acq: 25 Sep 2025 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	2717
Ion Ratio	Lower	Upper
128	100	
127	12.6	10.2 15.4
129	2.6	8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 0.373 ug/l

RT: 15.817 min Scan# 2357

Delta R.T. 0.006 min

Lab File: VN087952.D

Acq: 25 Sep 2025 14:17

Tgt Ion:180	Resp:	1206
Ion Ratio	Lower	Upper
180	100	
182	101.3	47.3 142.0
145	23.4	16.1 48.3

