

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070125\
 Data File : VN087256.D
 Acq On : 01 Jul 2025 12:39
 Operator : JC\MD
 Sample : Q2459-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Jul 02 02:01:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	176485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	329684	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	155219	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	122060	55.106	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.220%	
35) Dibromofluoromethane	8.177	113	108309	51.307	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.620%	
50) Toluene-d8	10.565	98	409435	49.760	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.520%	
62) 4-Bromofluorobenzene	12.847	95	143945	49.167	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.340%	

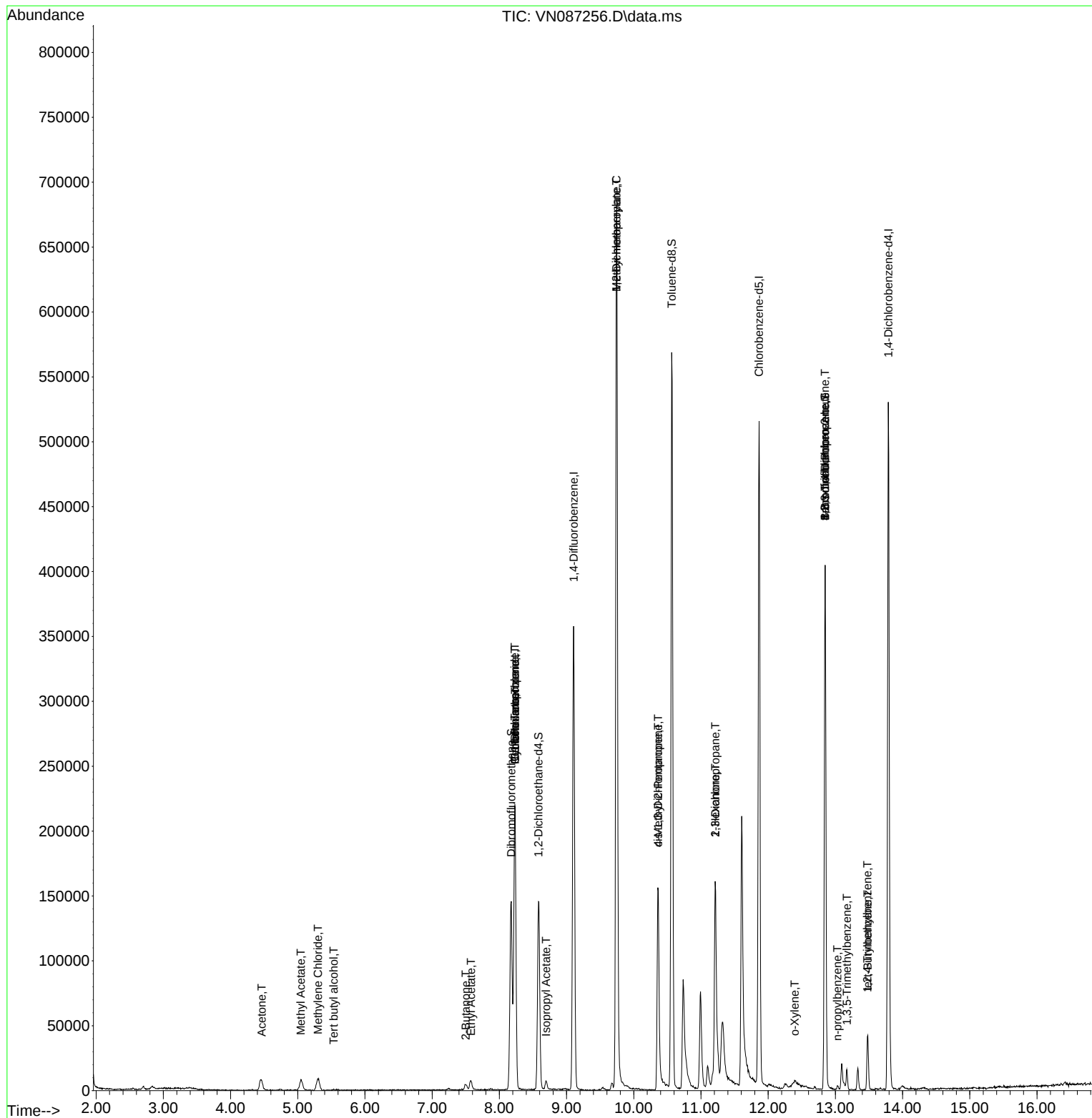
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.536	59	913	2.262	ug/l #	72
16) Acetone	4.465	43	17198	20.309	ug/l	93
18) Methyl Acetate	5.047	43	17277	8.912	ug/l	98
20) Methylene Chloride	5.300	84	8221	4.382	ug/l	95
25) 2-Butanone	7.500	43	7203	5.443	ug/l #	78
31) Cyclohexane	8.235	56	3026	1.003	ug/l #	18
36) 1,1-Dichloropropene	8.230	75	12231	4.261	ug/l #	47
37) Ethyl Acetate	7.577	43	11941	3.869	ug/l #	89
38) Carbon Tetrachloride	8.230	117	17337	5.330	ug/l #	15
43) Isopropyl Acetate	8.694	43	7098	1.483	ug/l #	93
45) 1,2-Dichloropropane	9.741	63	954	0.492	ug/l #	45
48) Methyl methacrylate	9.741	41	64731	32.092	ug/l #	35
51) 4-Methyl-2-Pentanone	10.365	43	66275	22.634	ug/l #	44
54) cis-1,3-Dichloropropene	10.365	75	38039	11.064	ug/l #	60
57) 1,3-Dichloropropane	11.212	76	2167	0.603	ug/l #	41
59) 2-Hexanone	11.212	43	34499	16.448	ug/l #	48
69) o-Xylene	12.394	106	865	0.204	ug/l	74
71) Bromoform	12.847	173	744	0.397	ug/l #	28
76) 1,2,3-Trichloropropane	12.847	75	69339	23.486	ug/l #	1
78) n-propylbenzene	13.029	91	3696	0.306	ug/l	81
80) 1,3,5-Trimethylbenzene	13.170	105	8171	0.977	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.847	75	69339	55.166	ug/l #	14
83) tert-Butylbenzene	13.482	119	3569	0.487	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.476	105	24829	2.965	ug/l	99

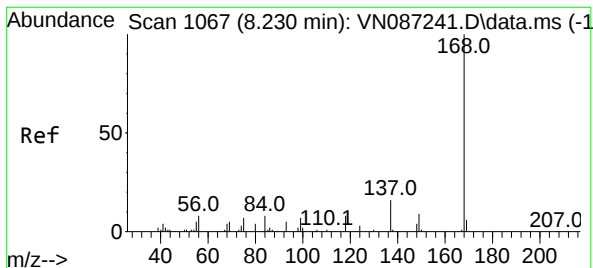
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TP-1

Quant Time: Jul 02 02:01:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

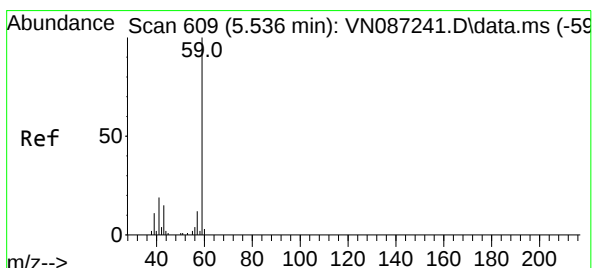
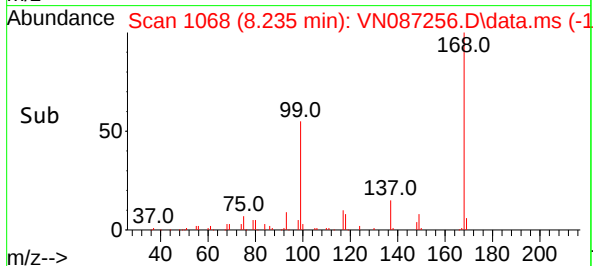
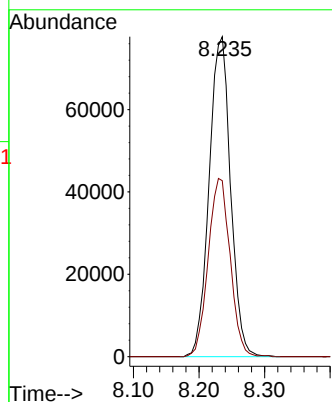
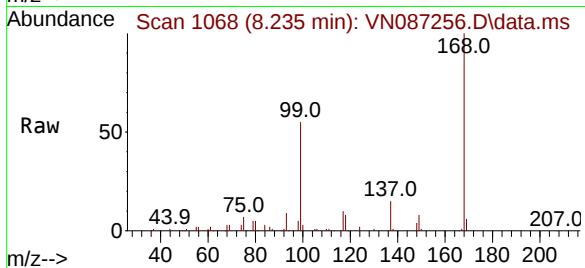
TP-1

Tgt Ion:168 Resp: 176485

Ion Ratio Lower Upper

168 100

99 55.0 42.6 64.0



#11

Tert butyl alcohol

Concen: 2.262 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.000 min

Lab File: VN087256.D

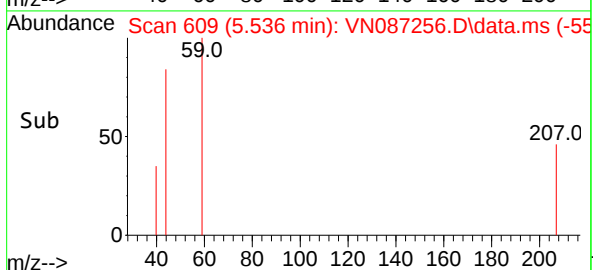
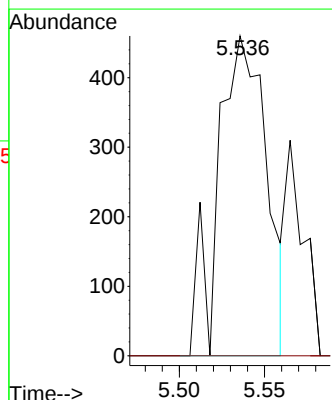
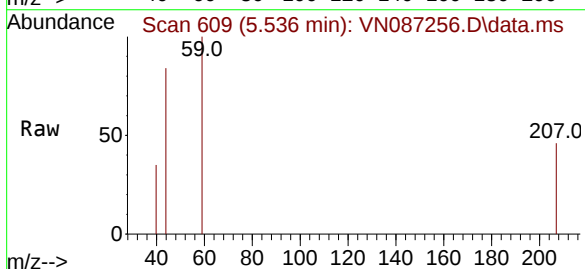
Acq: 01 Jul 2025 12:39

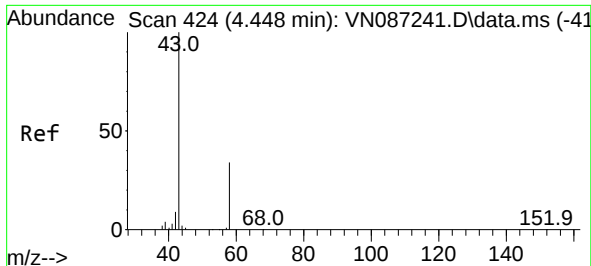
Tgt Ion: 59 Resp: 913

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#16

Acetone

Concen: 20.309 ug/l

RT: 4.465 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

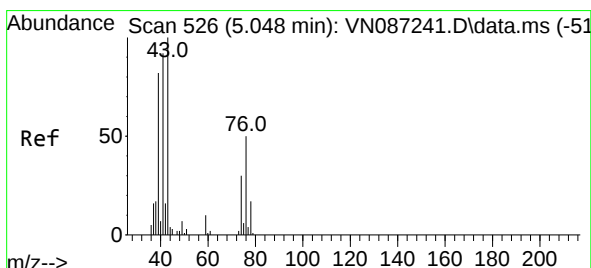
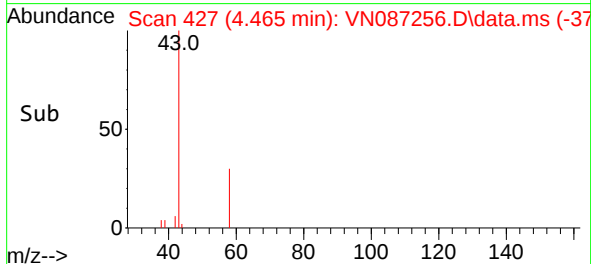
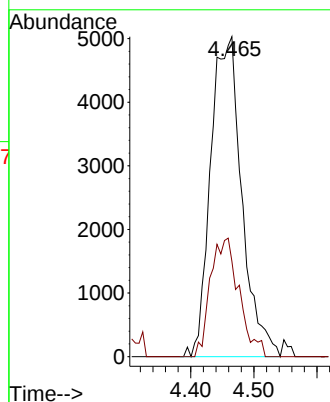
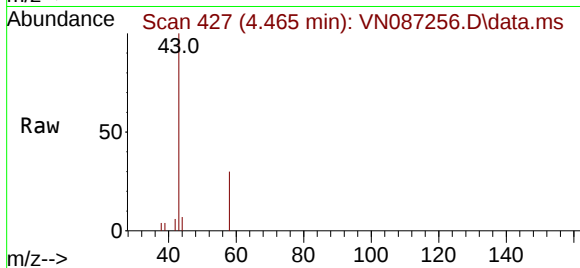
TP-1

Tgt Ion: 43 Resp: 17198

Ion Ratio Lower Upper

43 100

58 29.9 27.1 40.7



#18

Methyl Acetate

Concen: 8.912 ug/l

RT: 5.047 min Scan# 526

Delta R.T. -0.000 min

Lab File: VN087256.D

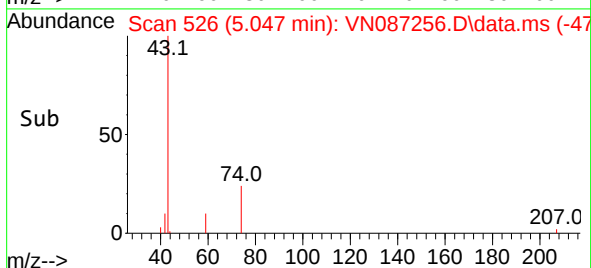
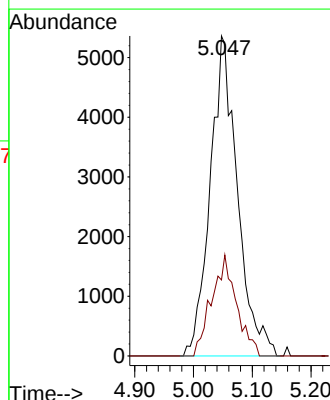
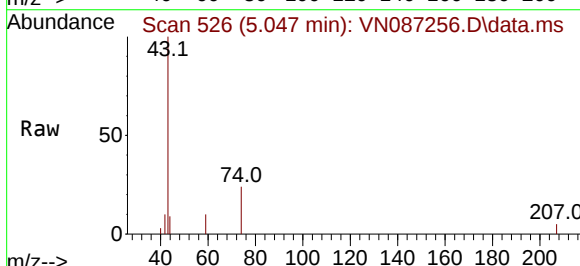
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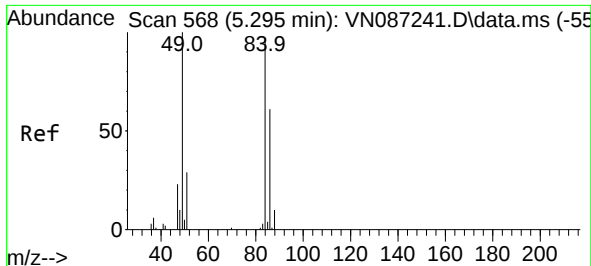
Tgt Ion: 43 Resp: 17277

Ion Ratio Lower Upper

43 100

74 28.7 23.8 35.6

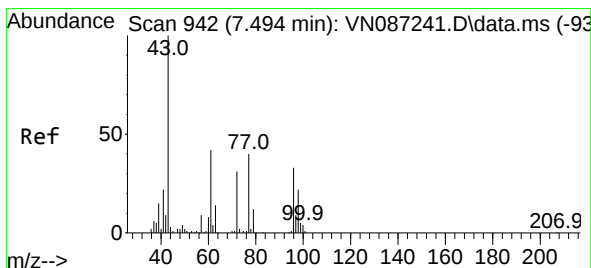
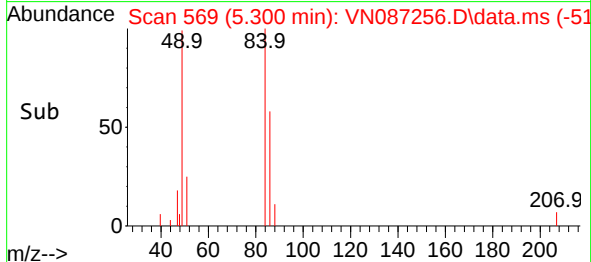
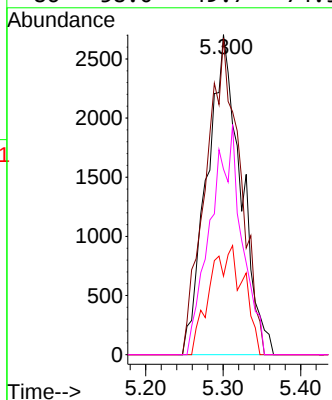
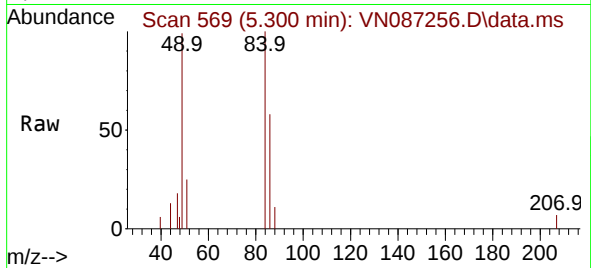




#20
Methylene Chloride
Concen: 4.382 ug/l
RT: 5.300 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

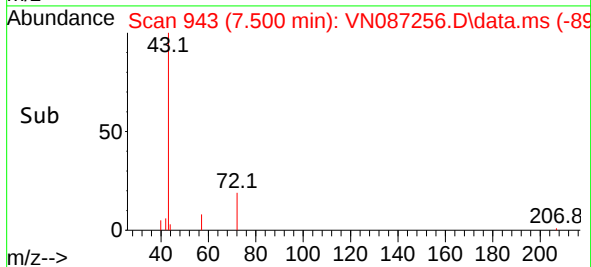
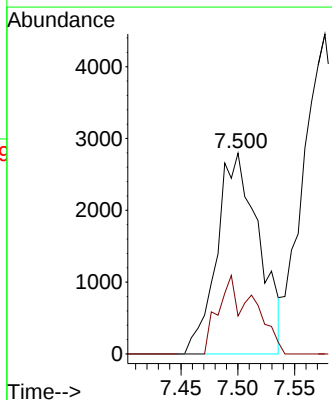
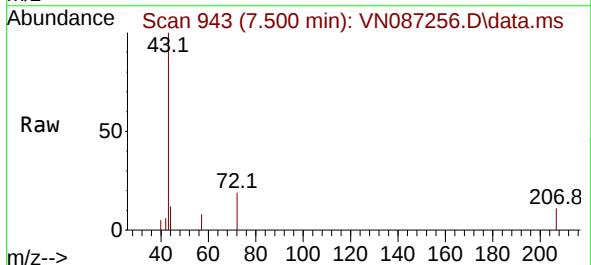
Instrument :
MSVOA_N
ClientSampleId :
TP-1

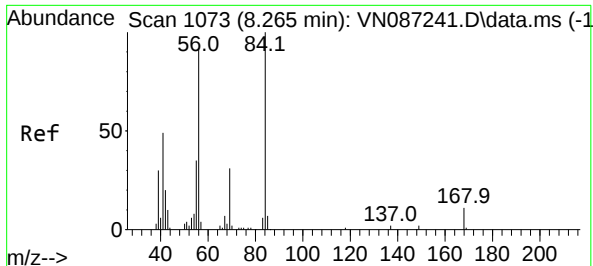
Tgt Ion:	84	Resp:	8221
Ion	Ratio	Lower	Upper
84	100		
49	98.9	82.1	123.1
51	24.5	23.5	35.3
86	58.0	49.7	74.5



#25
2-Butanone
Concen: 5.443 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion:	43	Resp:	7203
Ion	Ratio	Lower	Upper
43	100		
72	18.8	24.8	37.2#

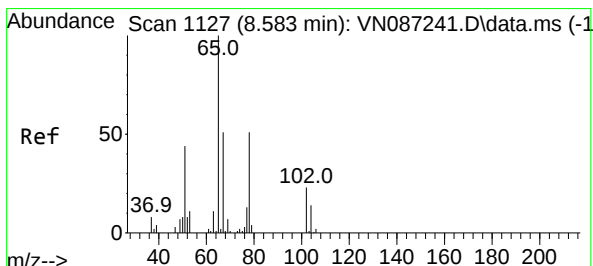
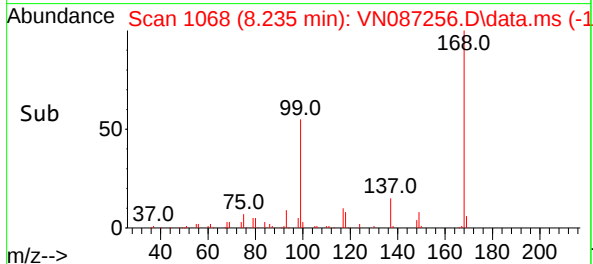
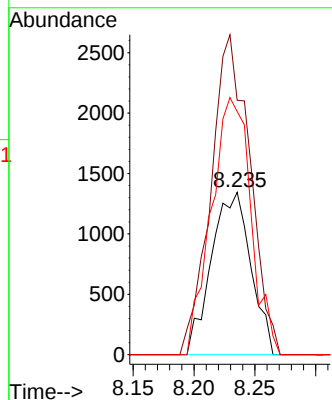
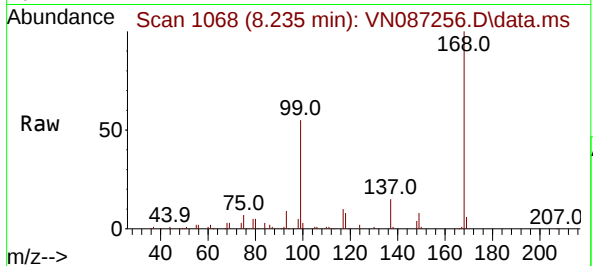




#31
Cyclohexane
Concen: 1.003 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

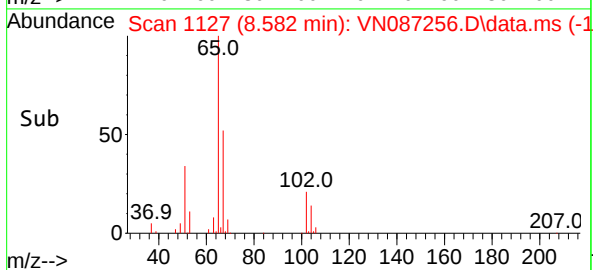
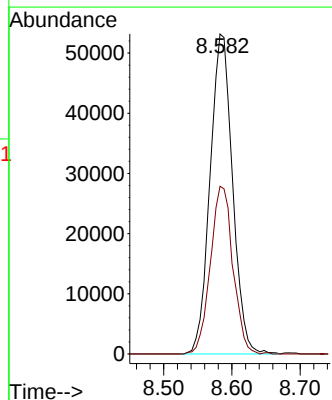
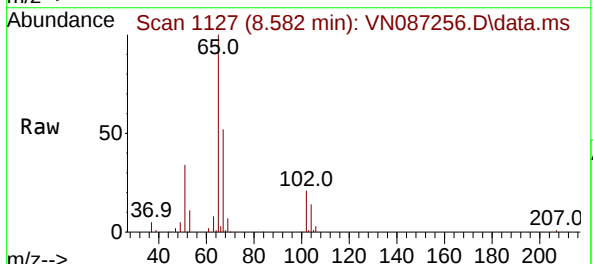
Instrument :
MSVOA_N
ClientSampleId :
TP-1

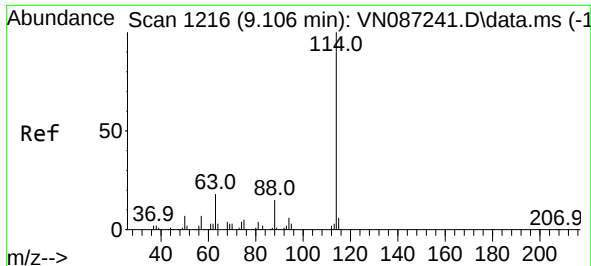
Tgt Ion: 56 Resp: 3026
Ion Ratio Lower Upper
56 100
69 156.6 27.0 40.6#
84 149.7 86.2 129.4#



#33
1,2-Dichloroethane-d4
Concen: 55.106 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion: 65 Resp: 122060
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.6

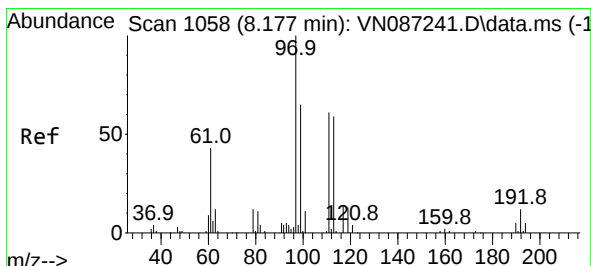
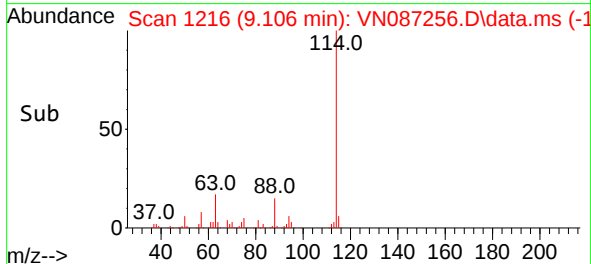
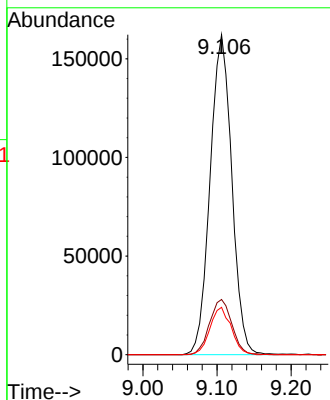
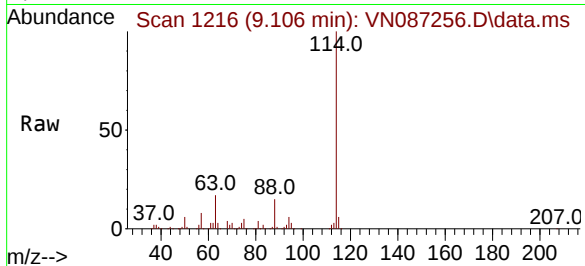




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

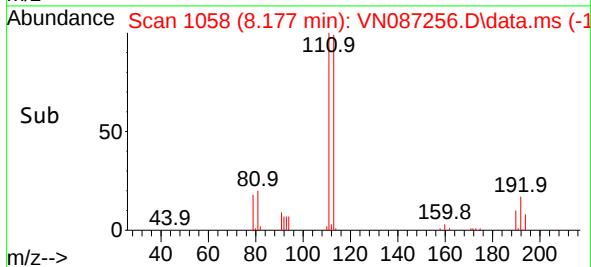
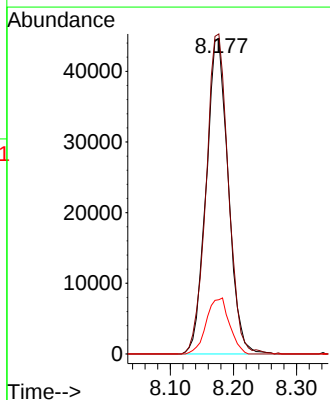
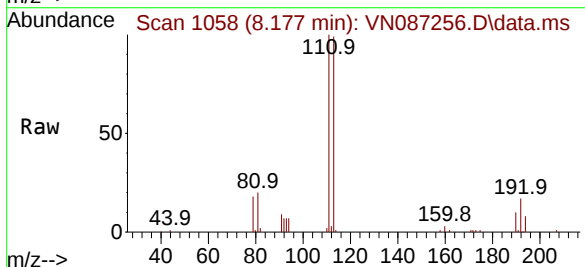
Instrument :
MSVOA_N
ClientSampleId :
TP-1

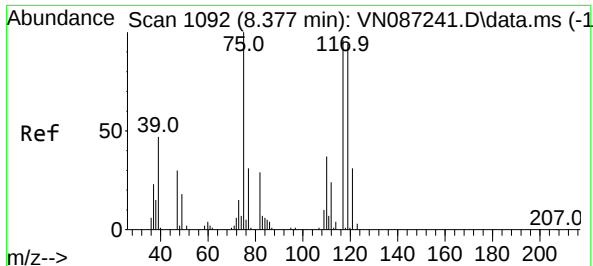
Tgt Ion:114 Resp: 329684
Ion Ratio Lower Upper
114 100
63 17.3 0.0 36.6
88 14.8 0.0 29.6



#35
Dibromofluoromethane
Concen: 51.307 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion:113 Resp: 108309
Ion Ratio Lower Upper
113 100
111 102.2 81.4 122.2
192 18.5 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.261 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

TP-1

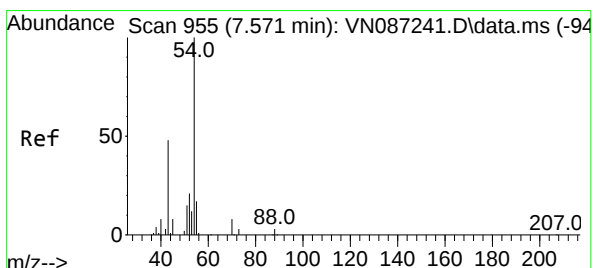
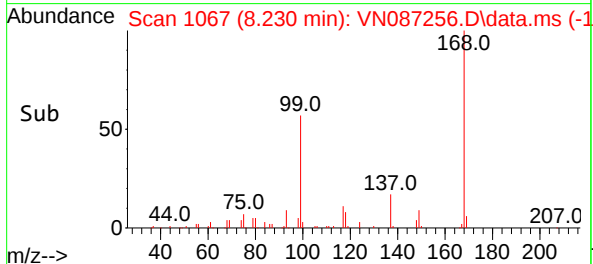
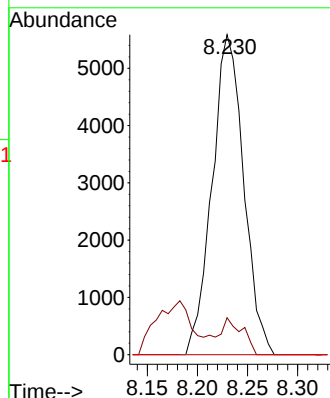
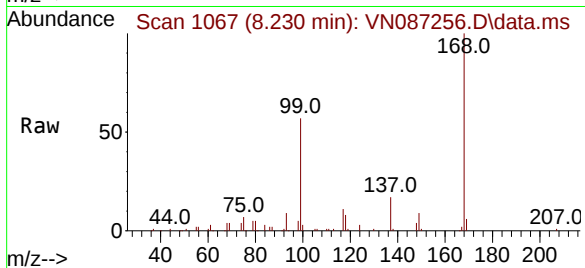
Tgt Ion: 75 Resp: 12231

Ion Ratio Lower Upper

75 100

110 7.5 18.7 56.1#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 3.869 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

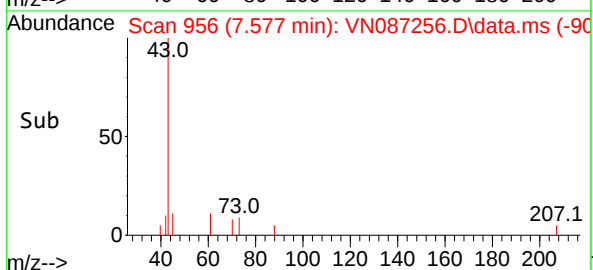
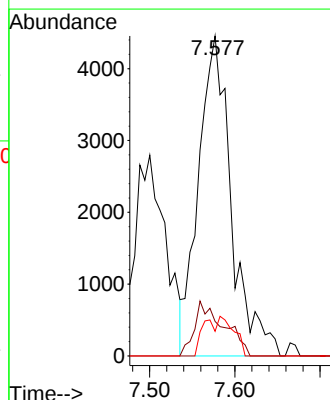
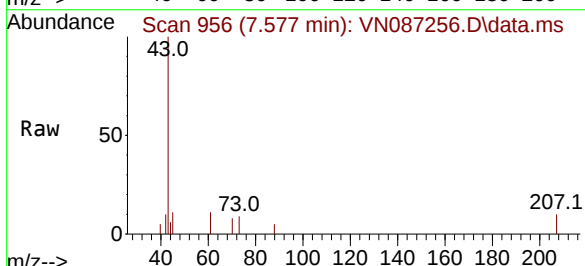
Tgt Ion: 43 Resp: 11941

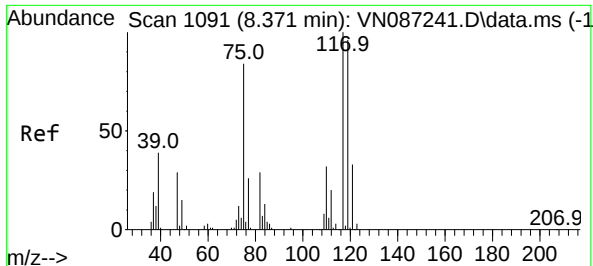
Ion Ratio Lower Upper

43 100

61 15.3 11.3 16.9

70 4.9 9.9 14.9#

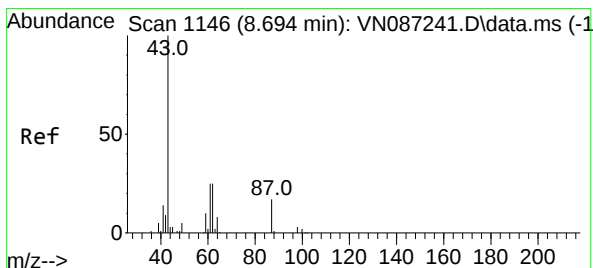
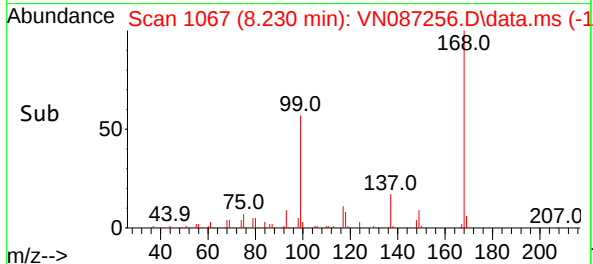
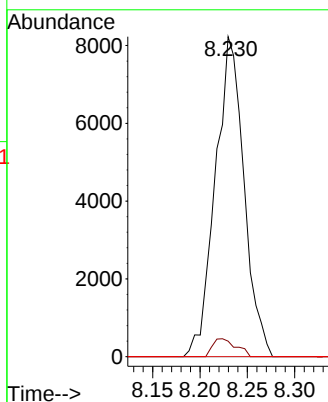
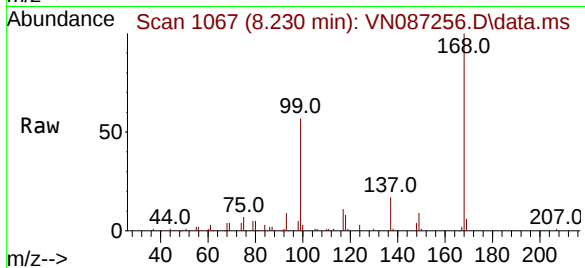




#38
Carbon Tetrachloride
Concen: 5.330 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

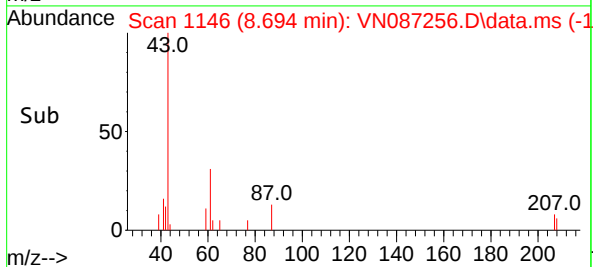
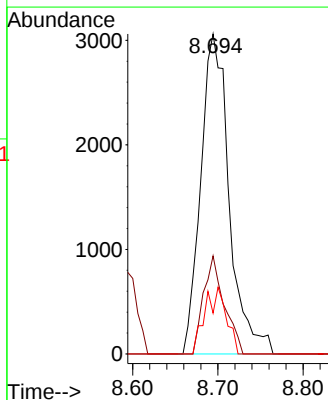
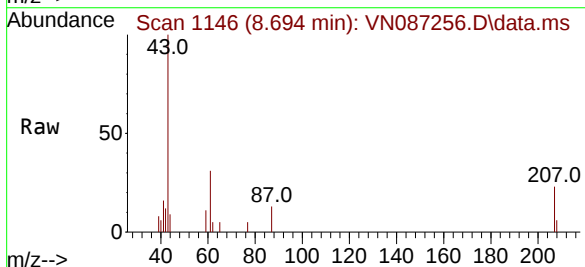
Instrument :
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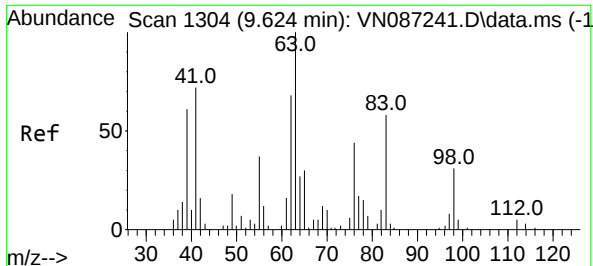
Tgt Ion:117 Resp: 17337
Ion Ratio Lower Upper
117 100
119 4.8 77.2 115.8#
121 0.0 26.6 39.8#



#43
Isopropyl Acetate
Concen: 1.483 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion: 43 Resp: 7098
Ion Ratio Lower Upper
43 100
61 22.3 22.4 33.6#
87 15.7 12.8 19.2





#45

1,2-Dichloropropane

Concen: 0.492 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.118 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

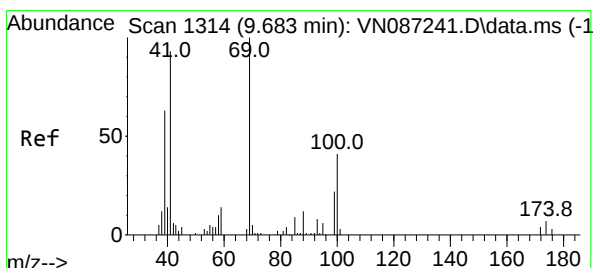
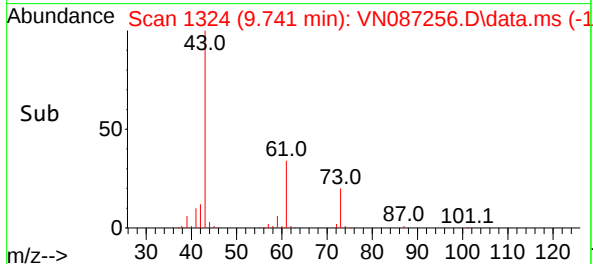
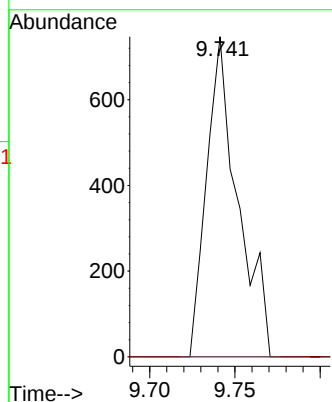
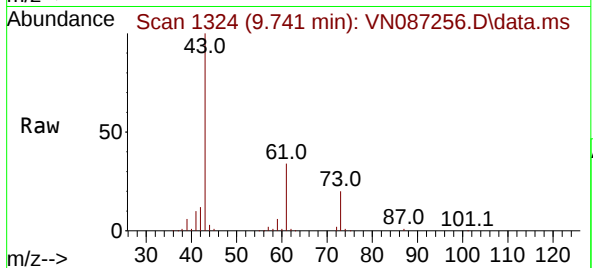
TP-1

Tgt Ion: 63 Resp: 954

Ion Ratio Lower Upper

63 100

65 0.0 23.8 35.8#



#48

Methyl methacrylate

Concen: 32.092 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

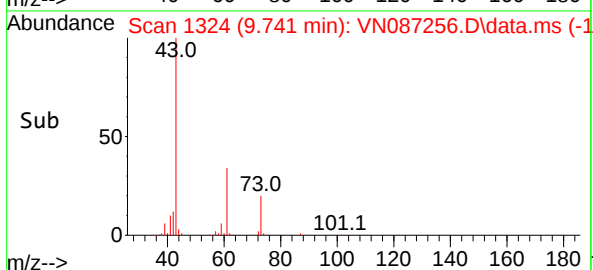
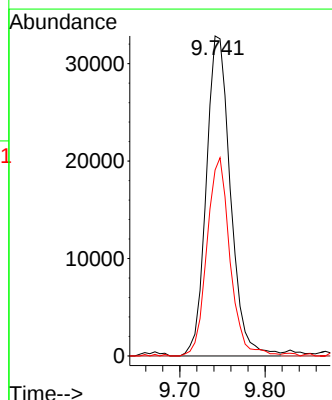
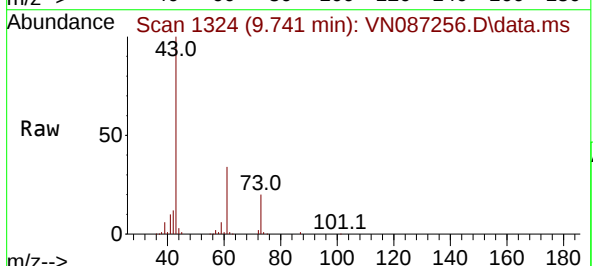
Tgt Ion: 41 Resp: 64731

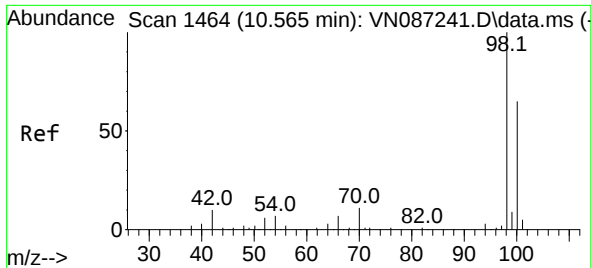
Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 59.1 56.9 85.3

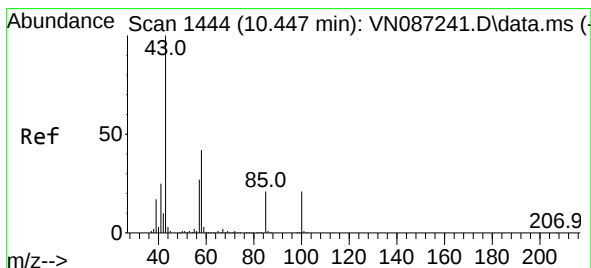
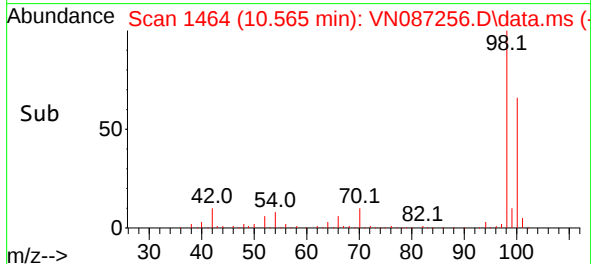
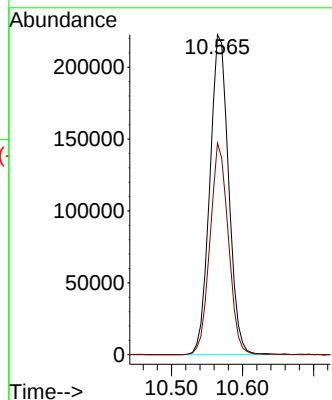
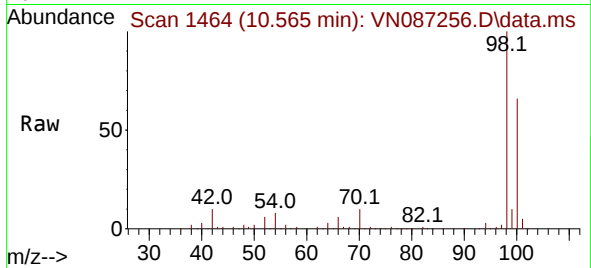




#50
Toluene-d8
Concen: 49.760 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

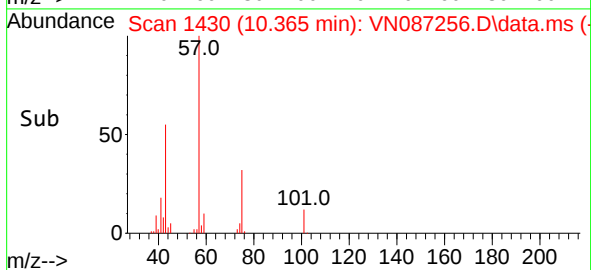
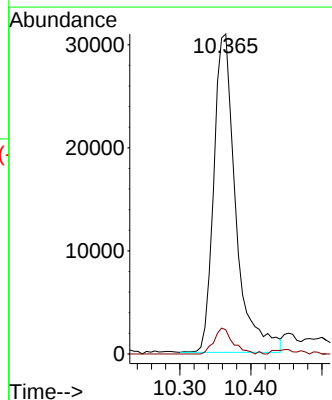
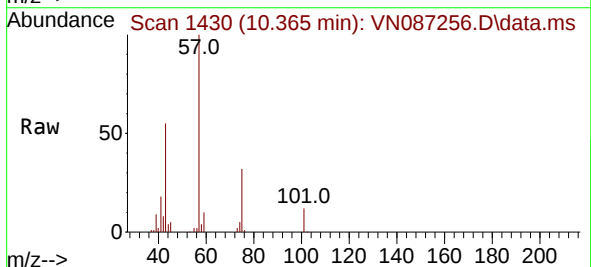
Instrument :
MSVOA_N
ClientSampleId :
TP-1

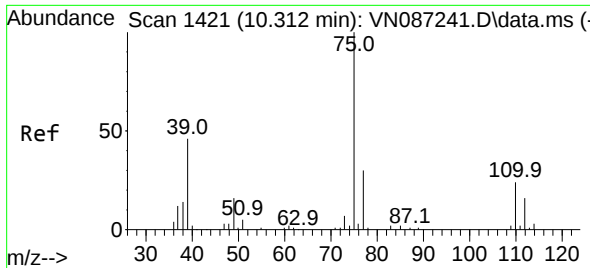
Tgt Ion: 98 Resp: 409435
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 22.634 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion: 43 Resp: 66275
Ion Ratio Lower Upper
43 100
58 7.0 34.2 51.2#

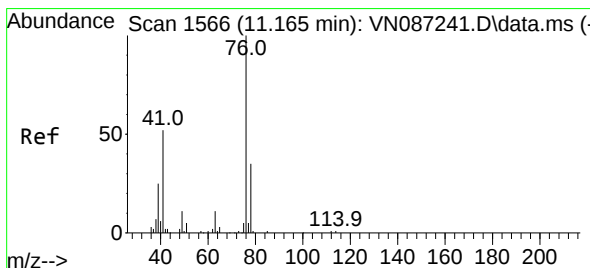
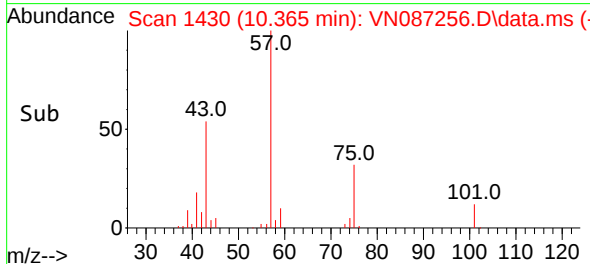
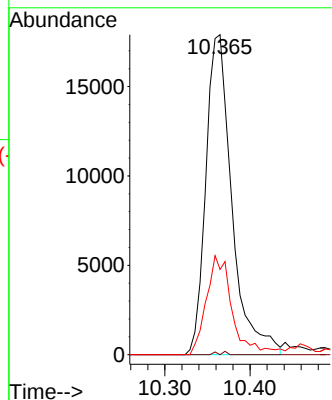
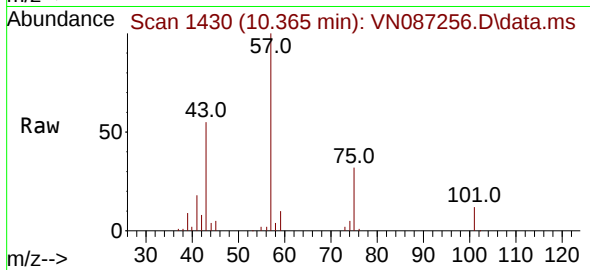




#54
 cis-1,3-Dichloropropene
 Concen: 11.064 ug/l
 RT: 10.365 min Scan# 1421
 Delta R.T. 0.053 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

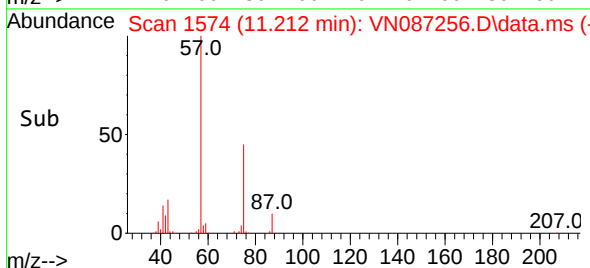
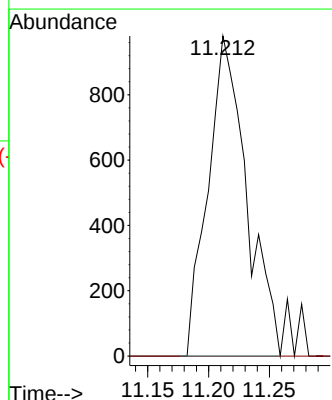
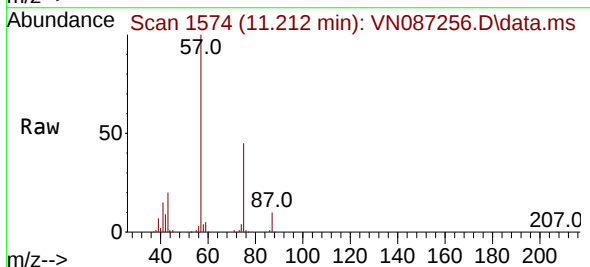
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

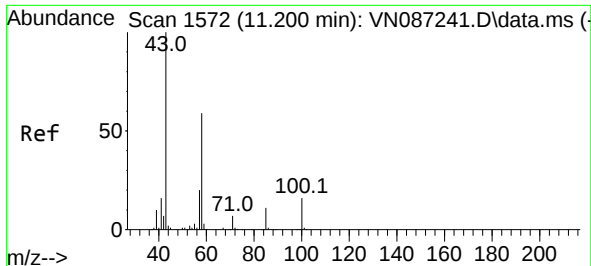
Tgt Ion: 75 Resp: 38039
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.1 36.1#
 39 26.6 36.7 55.1#



#57
 1,3-Dichloropropane
 Concen: 0.603 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

Tgt Ion: 76 Resp: 2167
 Ion Ratio Lower Upper
 76 100
 78 0.0 27.1 40.7#

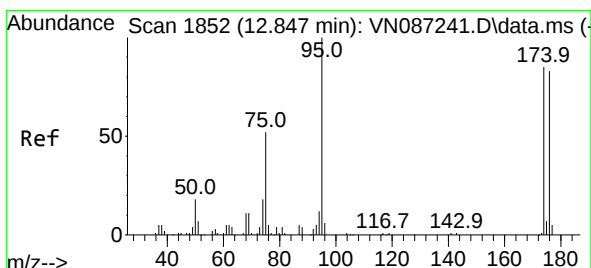
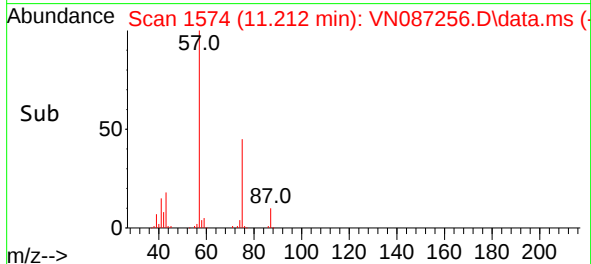
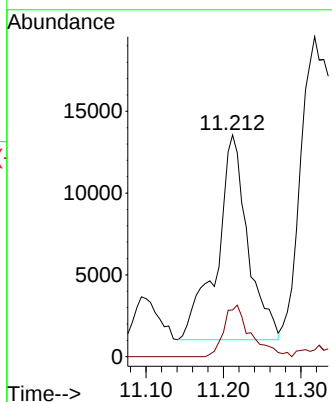
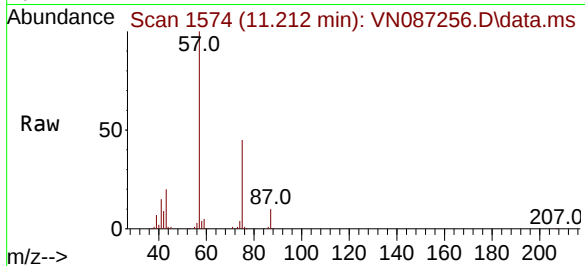




#59
2-Hexanone
Concen: 16.448 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

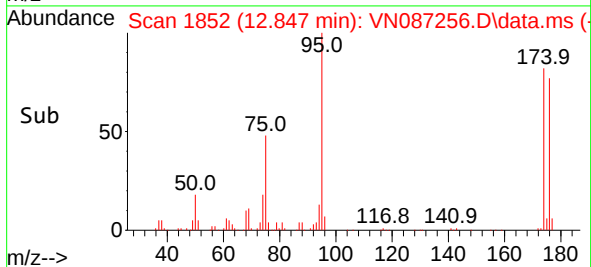
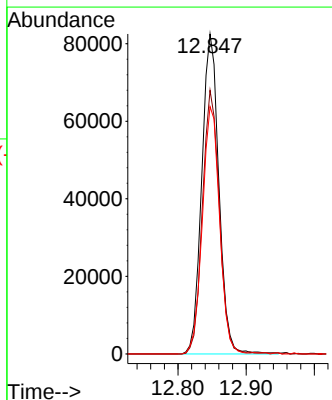
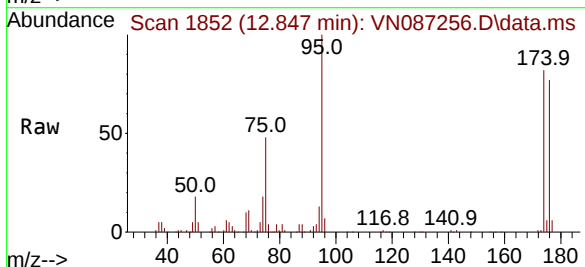
Instrument :
MSVOA_N
ClientSampleId :
TP-1

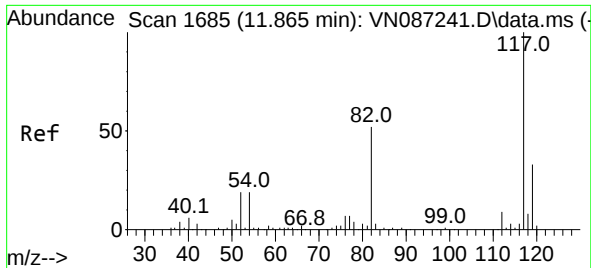
Tgt Ion: 43 Resp: 34499
Ion Ratio Lower Upper
43 100
58 21.9 31.1 93.3#



#62
4-Bromofluorobenzene
Concen: 49.167 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion: 95 Resp: 143945
Ion Ratio Lower Upper
95 100
174 81.5 0.0 169.6
176 77.7 0.0 161.6

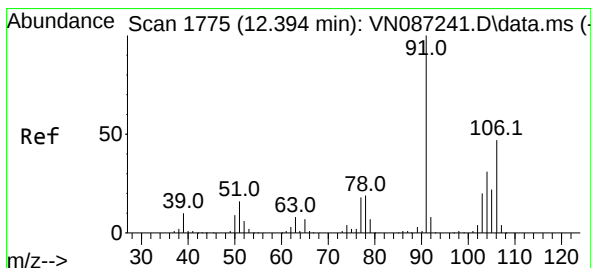
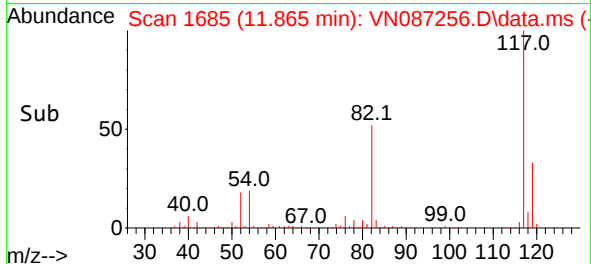
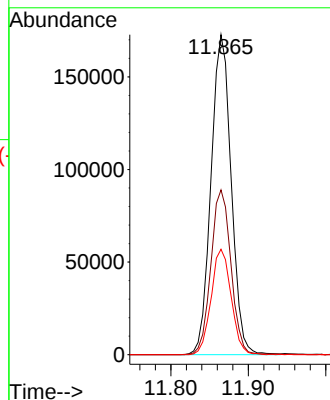
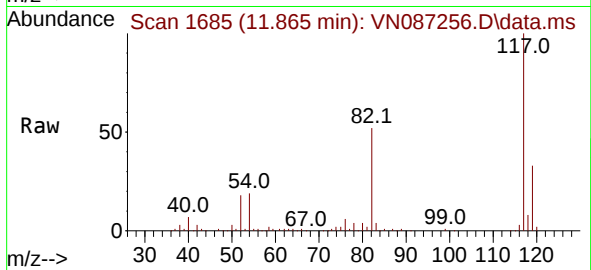




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

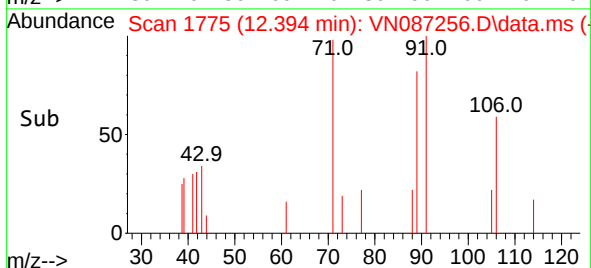
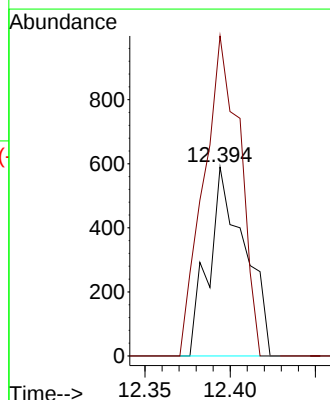
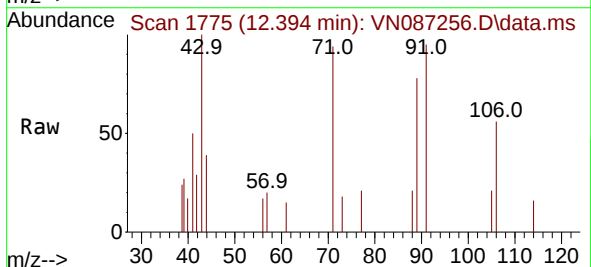
Instrument :
MSVOA_N
ClientSampleId :
TP-1

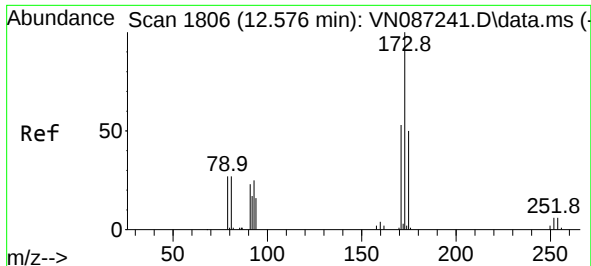
Tgt Ion:117 Resp: 313203
Ion Ratio Lower Upper
117 100
82 51.5 41.9 62.9
119 33.0 26.2 39.4



#69
o-Xylene
Concen: 0.204 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion:106 Resp: 865
Ion Ratio Lower Upper
106 100
91 170.2 105.4 316.1

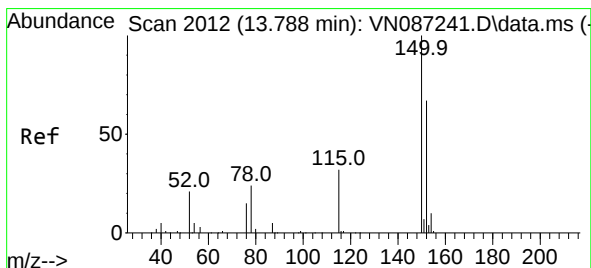
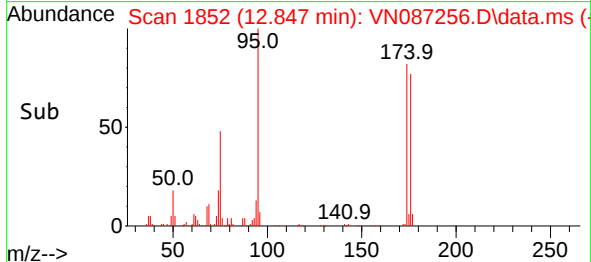
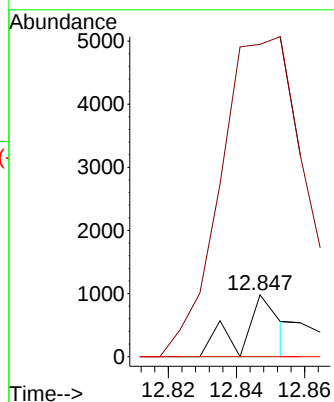
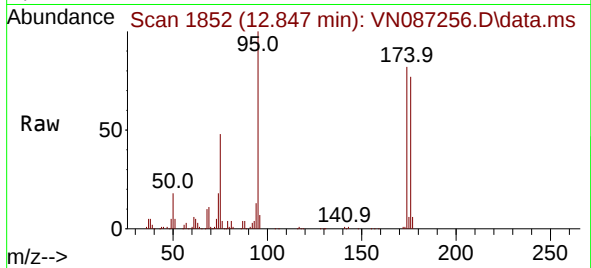




#71
Bromoform
Concen: 0.397 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

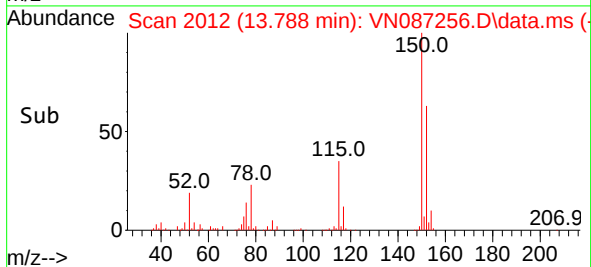
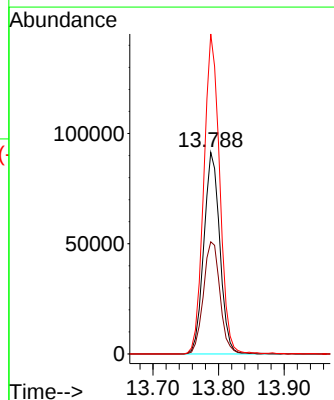
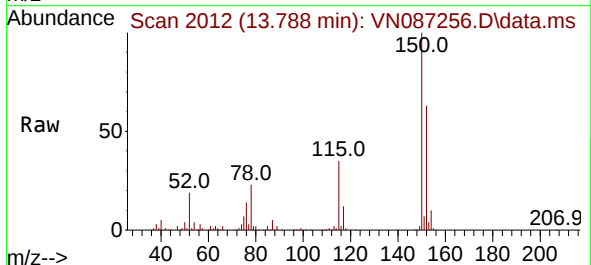
Instrument :
MSVOA_N
ClientSampleId :
TP-1

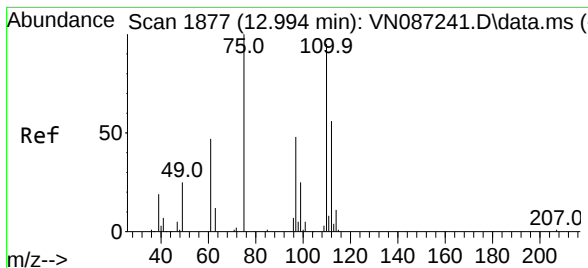
Tgt Ion:173 Resp: 744
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087256.D
Acq: 01 Jul 2025 12:39

Tgt Ion:152 Resp: 155219
Ion Ratio Lower Upper
152 100
115 57.9 28.3 84.9
150 157.8 0.0 344.6





#76

1,2,3-Trichloropropane

Concen: 23.486 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087256.D

Acq: 01 Jul 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

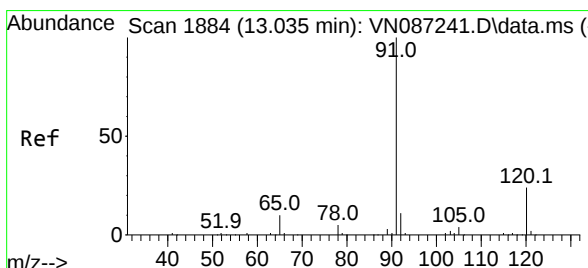
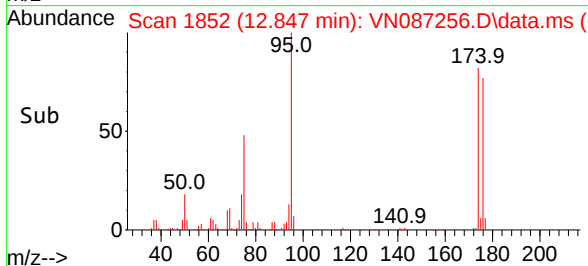
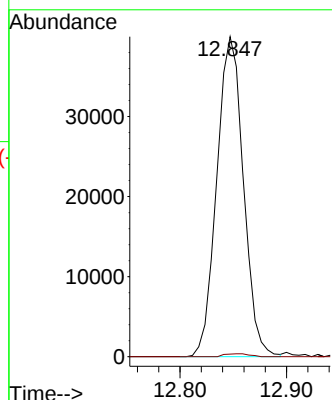
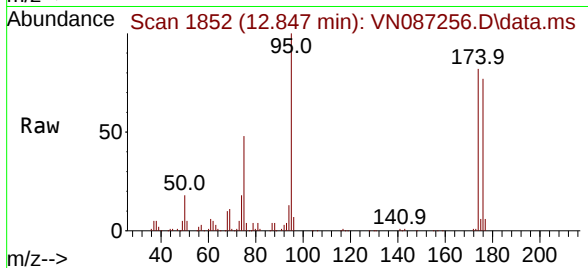
TP-1

Tgt Ion: 75 Resp: 69339

Ion Ratio Lower Upper

75 100

77 0.9 82.0 245.8#



#78

n-propylbenzene

Concen: 0.306 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN087256.D

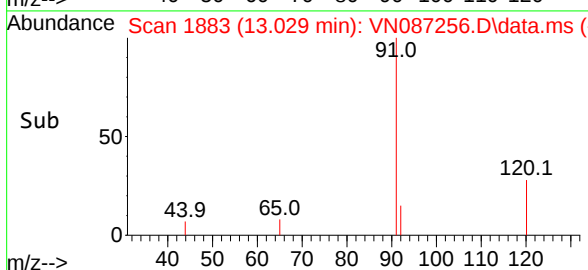
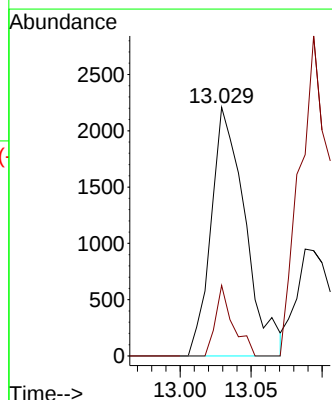
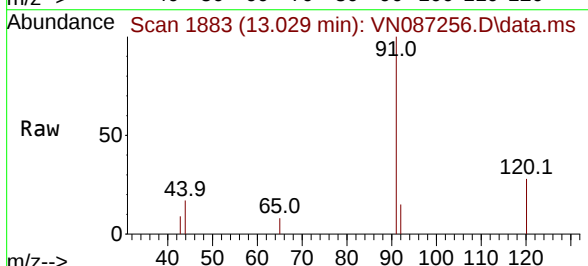
Acq: 01 Jul 2025 12:39

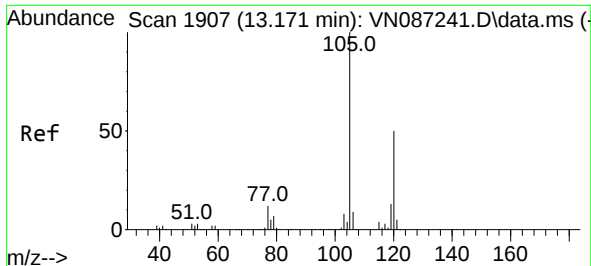
Tgt Ion: 91 Resp: 3696

Ion Ratio Lower Upper

91 100

120 14.6 12.0 36.0

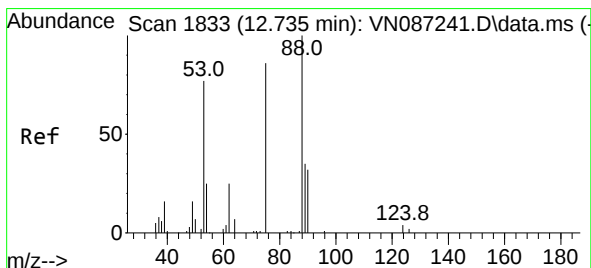
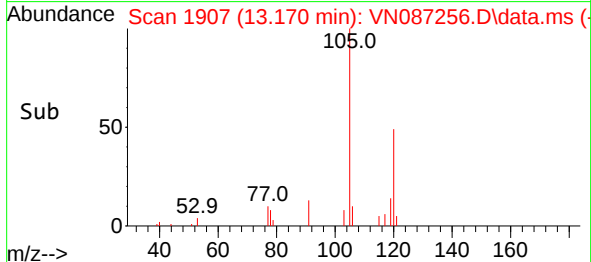
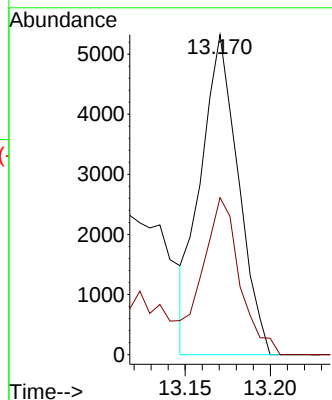
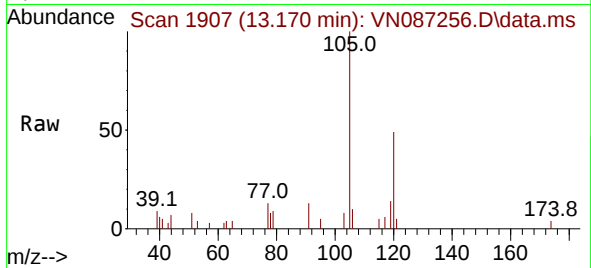




#80
 1,3,5-Trimethylbenzene
 Concen: 0.977 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

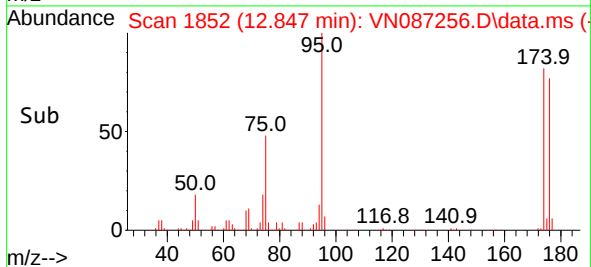
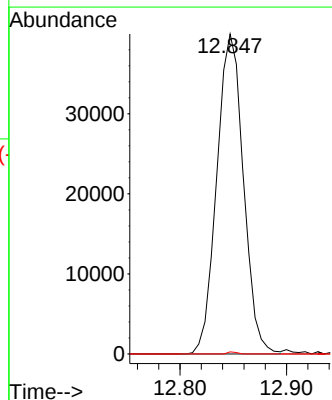
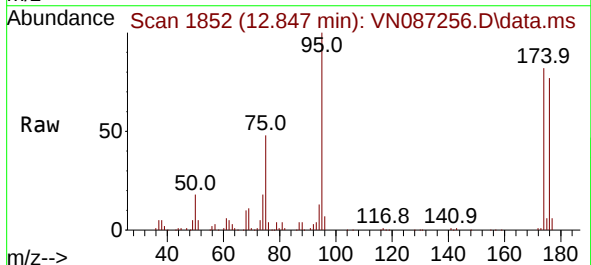
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

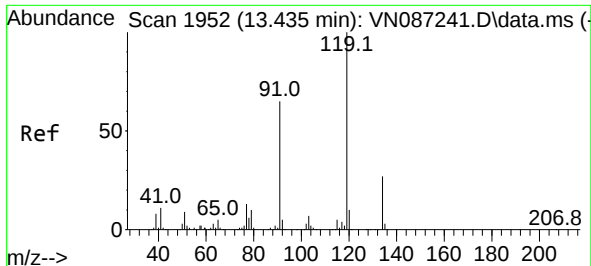
Tgt Ion:105 Resp: 8171
 Ion Ratio Lower Upper
 105 100
 120 50.5 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.166 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

Tgt Ion: 75 Resp: 69339
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 105.8#
 89 0.2 36.1 54.1#

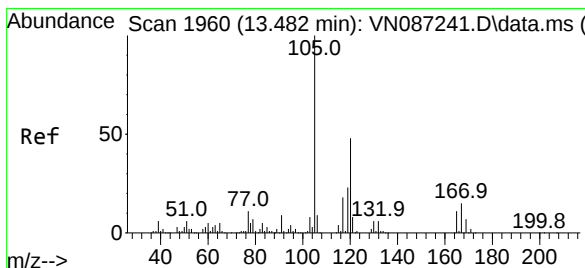
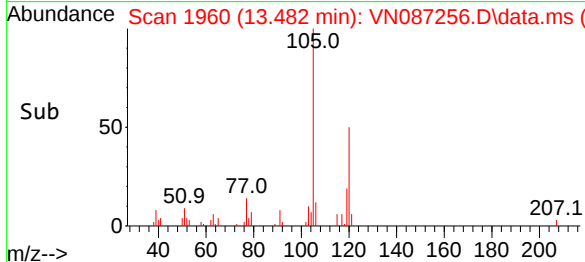
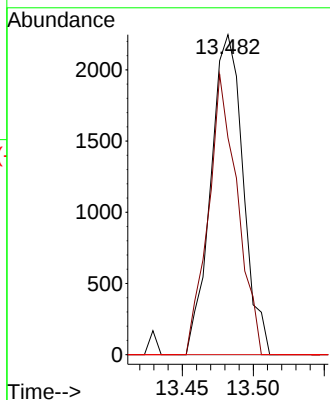
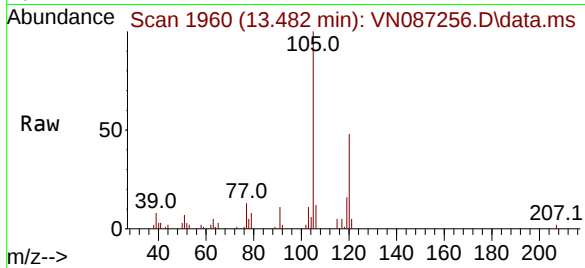




#83
 tert-Butylbenzene
 Concen: 0.487 ug/l
 RT: 13.482 min Scan# 1959
 Delta R.T. 0.047 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Tgt Ion:119 Resp: 3569
 Ion Ratio Lower Upper
 119 100
 91 78.4 32.5 97.4
 134 0.0 14.2 42.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.965 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. -0.006 min
 Lab File: VN087256.D
 Acq: 01 Jul 2025 12:39

Tgt Ion:105 Resp: 24829
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.3 69.9

