

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087129.D
 Acq On : 20 Jun 2025 11:42
 Operator : JC\MD
 Sample : Q2354-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3321

Quant Time: Jun 20 23:02:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

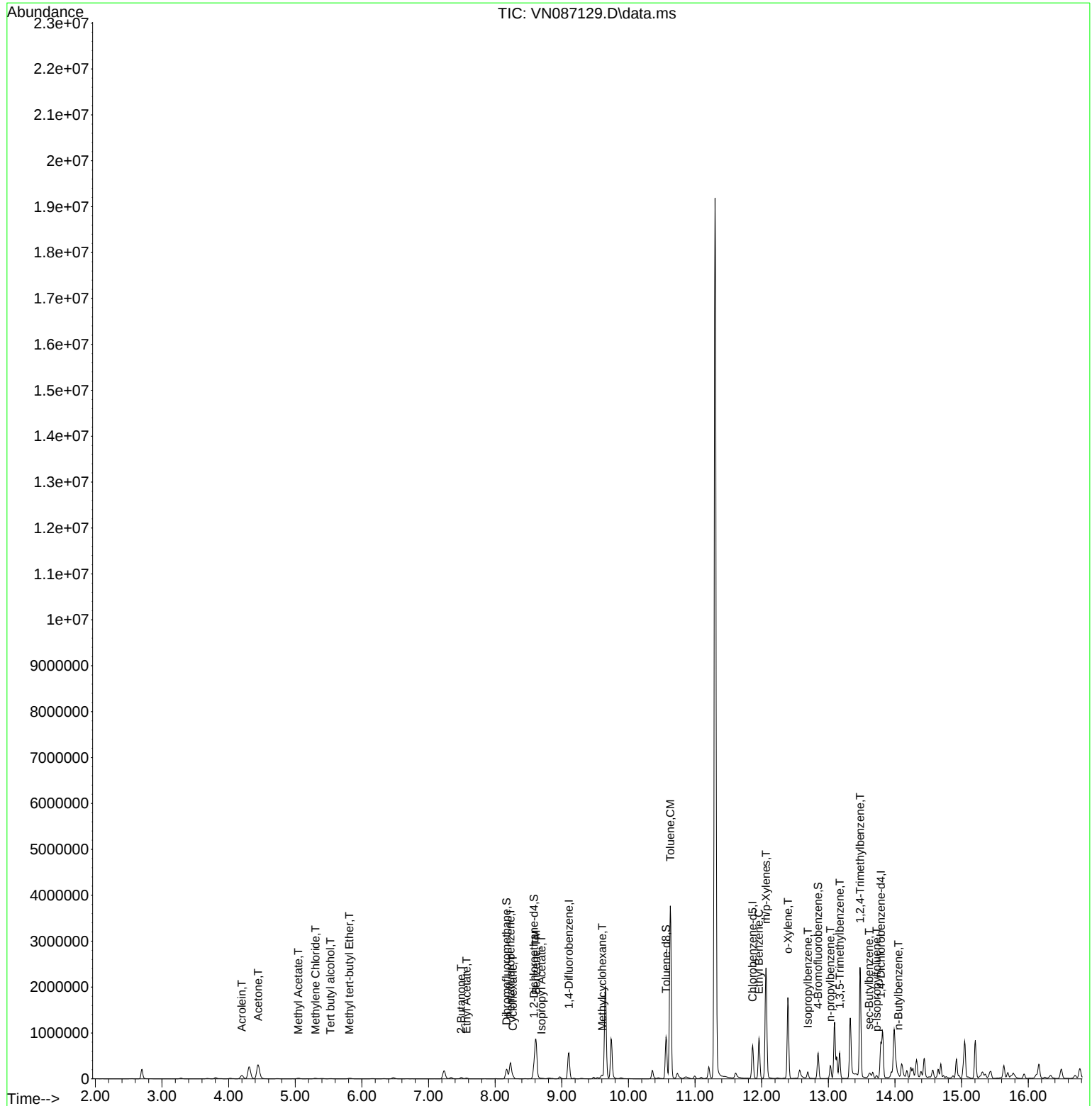
Internal Standards						
1) Pentafluorobenzene	8.230	168	265390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	539692	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	447089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	213690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	186769	52.562	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.120%	
35) Dibromofluoromethane	8.171	113	162627	50.847	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.700%	
50) Toluene-d8	10.565	98	652648	51.546	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.100%	
62) 4-Bromofluorobenzene	12.847	95	217510	46.239	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 92.480%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	11282	11.702	ug/l	95
13) Acrolein	4.200	56	104217	341.486	ug/l	88
16) Acetone	4.442	43	605370	321.265	ug/l	96
18) Methyl Acetate	5.047	43	33190	6.044	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	20531	1.920	ug/l #	73
20) Methylene Chloride	5.306	84	10148	2.877	ug/l	93
25) 2-Butanone	7.488	43	48978	15.991	ug/l	98
31) Cyclohexane	8.265	56	41103	7.132	ug/l	96
37) Ethyl Acetate	7.571	43	31227	5.147	ug/l	99
39) Methylcyclohexane	9.606	83	37821	5.792	ug/l	92
40) Benzene	8.612	78	932515	59.836	ug/l	99
43) Isopropyl Acetate	8.694	43	14820	1.522	ug/l #	84
52) Toluene	10.629	92	1782927	187.202	ug/l	99
67) Ethyl Benzene	11.959	91	685386	40.353	ug/l	99
68) m/p-Xylenes	12.065	106	835365	128.482	ug/l	98
69) o-Xylene	12.394	106	534218	85.790	ug/l	96
73) Isopropylbenzene	12.694	105	93716	6.020	ug/l	100
78) n-propylbenzene	13.029	91	236328	12.492	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	303819	23.638	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	1416229	109.884	ug/l	99
85) sec-Butylbenzene	13.612	105	43465	2.544	ug/l	82
86) p-Isopropyltoluene	13.723	119	27322	1.935	ug/l	99
89) n-Butylbenzene	14.053	91	36568	2.673	ug/l #	81

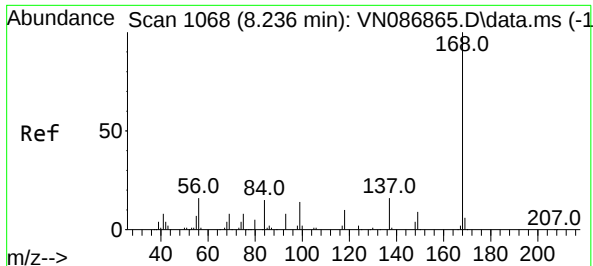
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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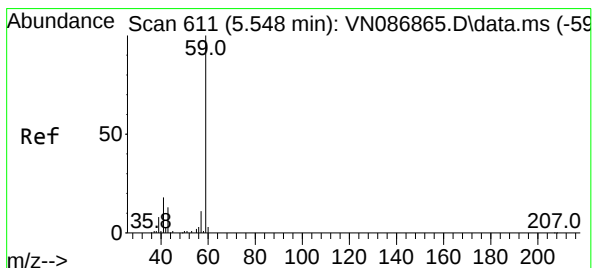
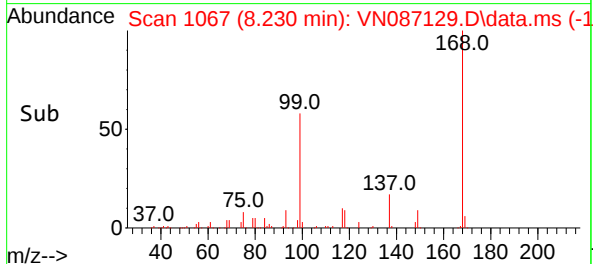
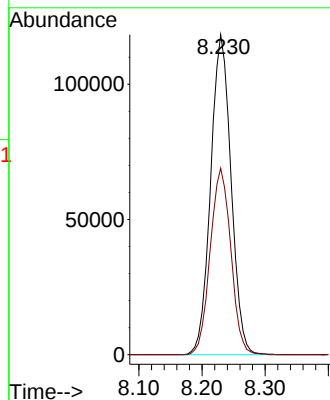
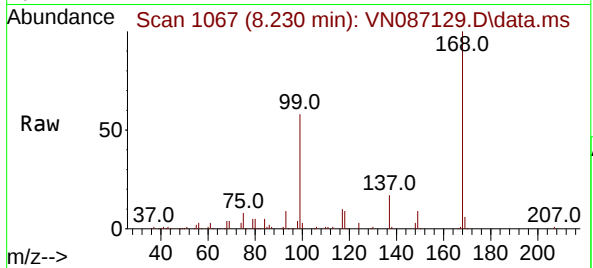




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

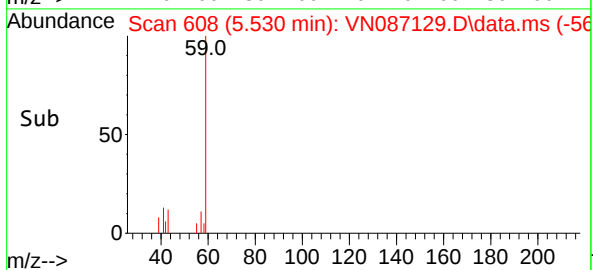
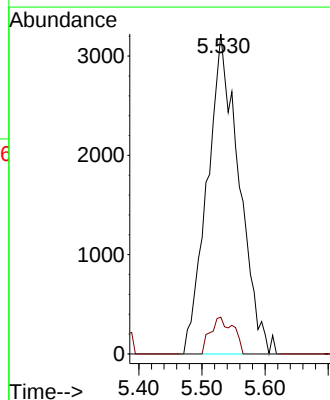
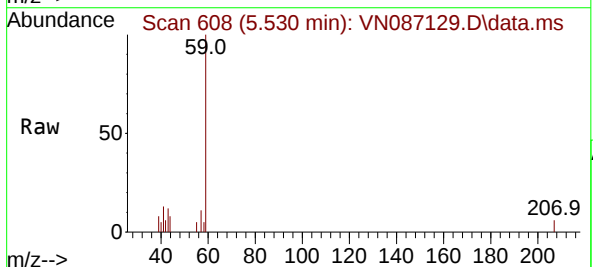
Instrument :
MSVOA_N
ClientSampleId :
3321

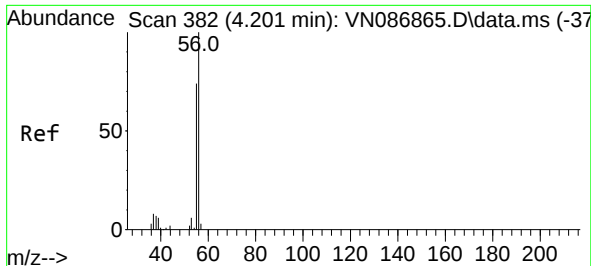
Tgt Ion:168 Resp: 265390
Ion Ratio Lower Upper
168 100
99 58.3 49.1 73.7



#11
Tert butyl alcohol
Concen: 11.702 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 59 Resp: 11282
Ion Ratio Lower Upper
59 100
57 8.2 8.1 12.1

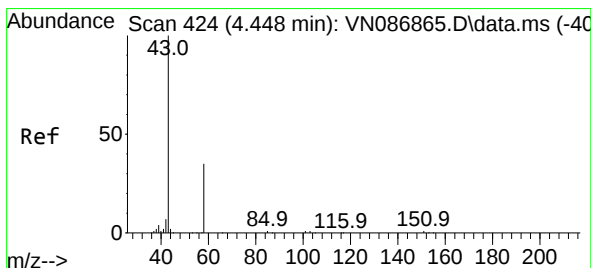
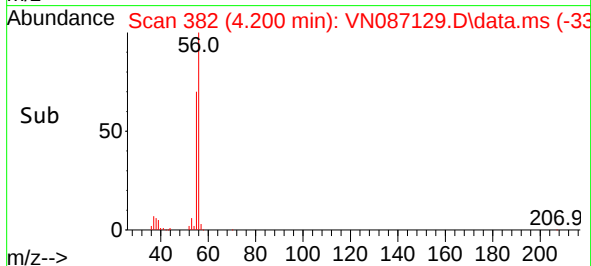
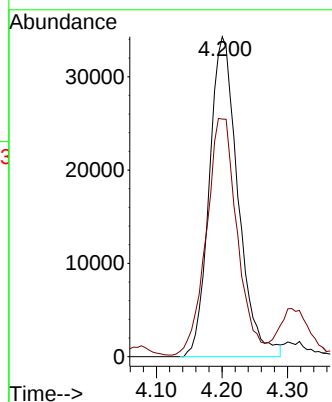
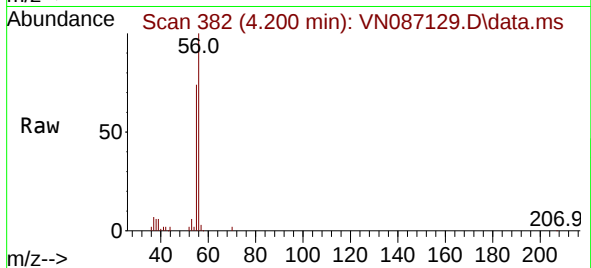




#13
Acrolein
Concen: 341.486 ug/l
RT: 4.200 min Scan# 382
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

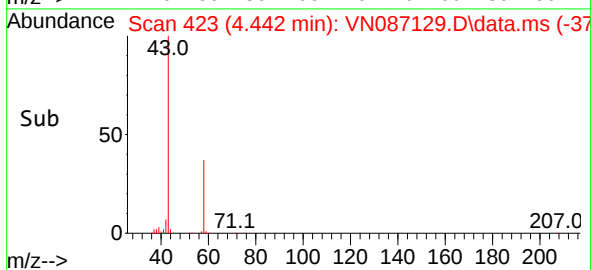
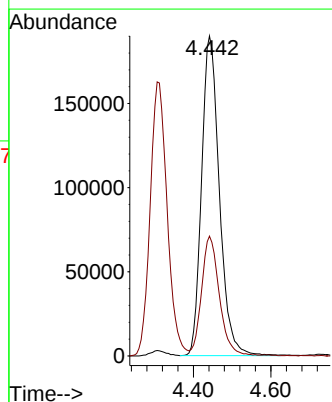
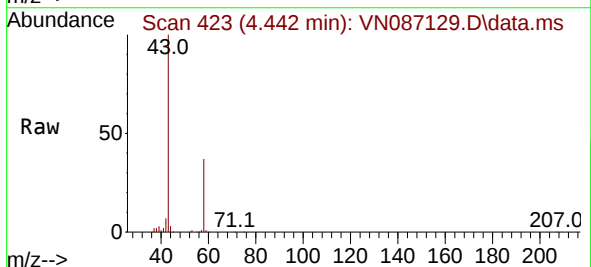
Instrument :
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ClientSampleId :
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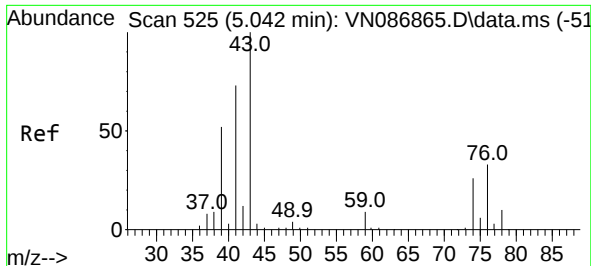
Tgt Ion: 56 Resp: 104217
Ion Ratio Lower Upper
56 100
55 79.4 55.6 83.4



#16
Acetone
Concen: 321.265 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 43 Resp: 605370
Ion Ratio Lower Upper
43 100
58 37.4 28.0 42.0

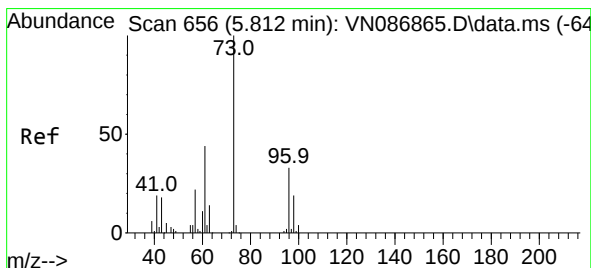
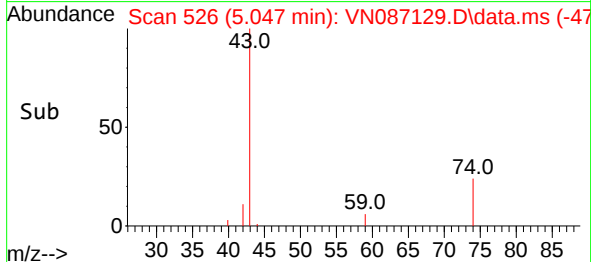
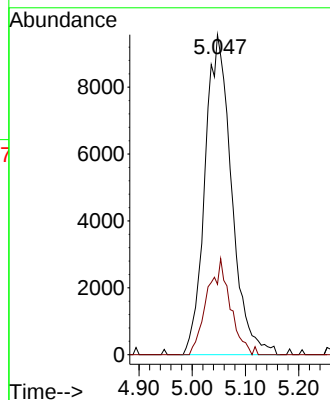
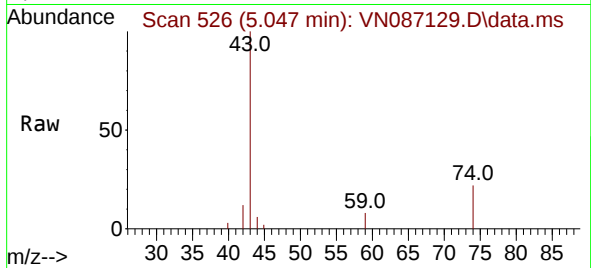




#18
Methyl Acetate
Concen: 6.044 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

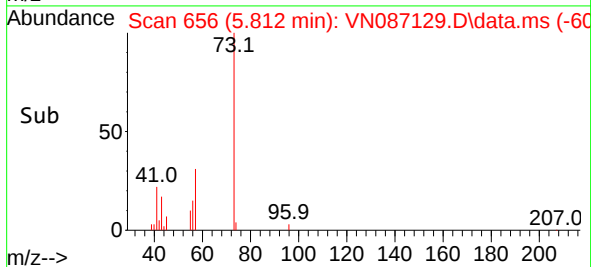
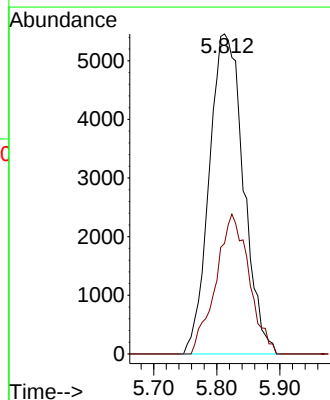
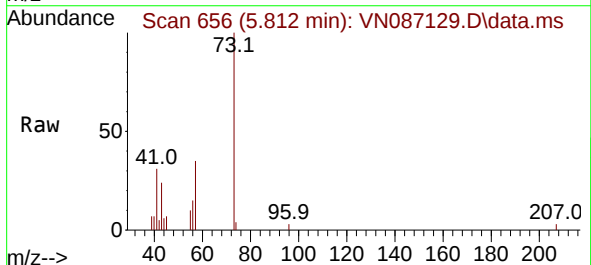
Instrument :
MSVOA_N
ClientSampleId :
3321

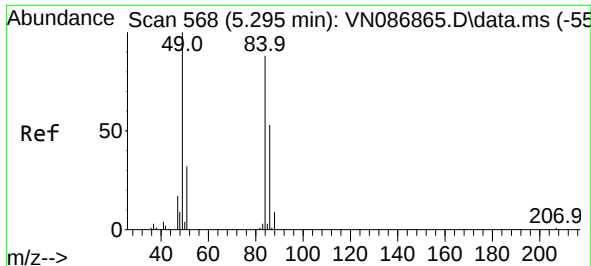
Tgt Ion: 43 Resp: 33190
Ion Ratio Lower Upper
43 100
74 26.0 20.7 31.1



#19
Methyl tert-butyl Ether
Concen: 1.920 ug/l
RT: 5.812 min Scan# 656
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 73 Resp: 20531
Ion Ratio Lower Upper
73 100
57 34.6 17.4 26.2#

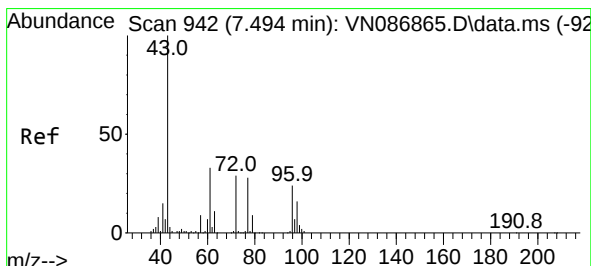
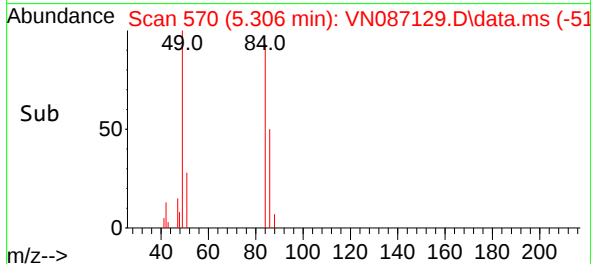
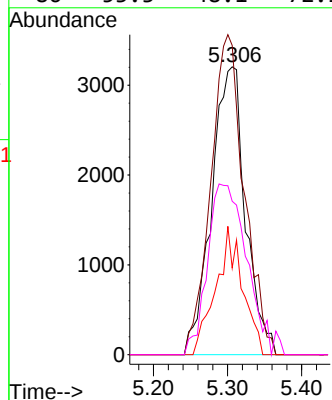
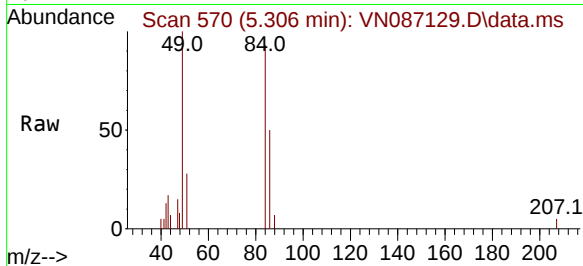




#20
Methylene Chloride
Concen: 2.877 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

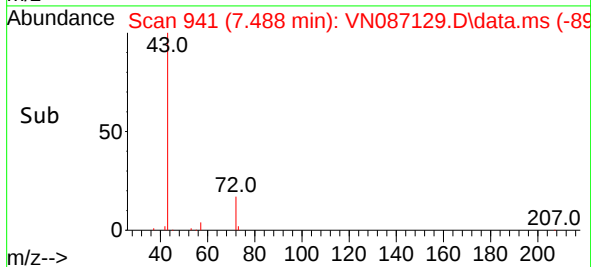
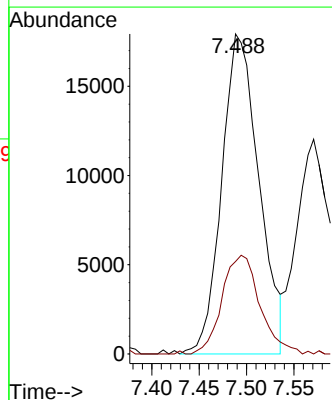
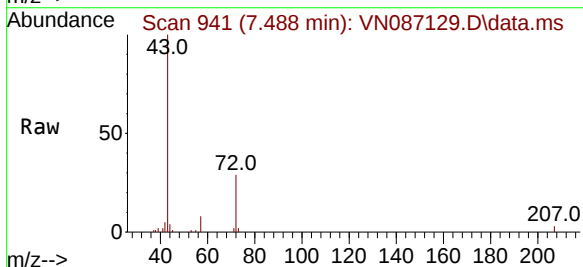
Instrument :
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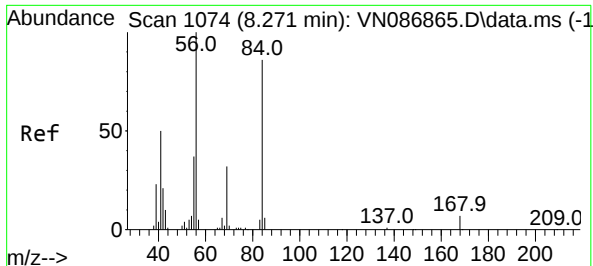
Tgt Ion:	84	Resp:	10148
Ion	Ratio	Lower	Upper
84	100		
49	107.5	90.5	135.7
51	30.1	28.5	42.7
86	53.3	48.1	72.1



#25
2-Butanone
Concen: 15.991 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion:	43	Resp:	48978
Ion	Ratio	Lower	Upper
43	100		
72	27.9	23.0	34.6

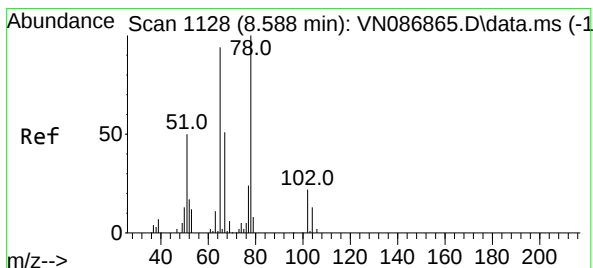
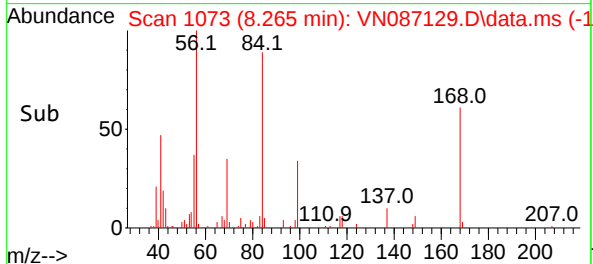
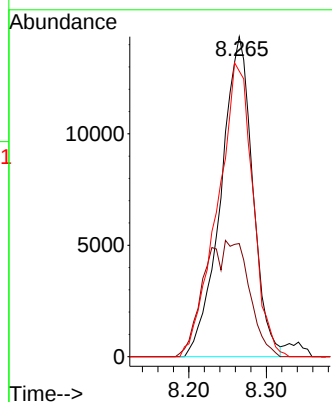
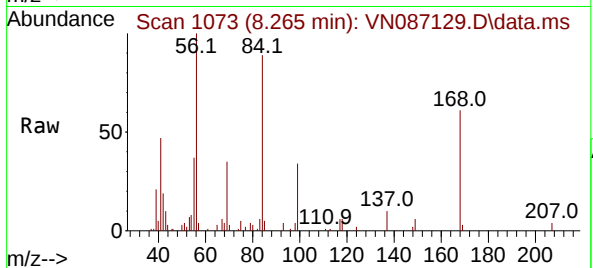




#31
Cyclohexane
Concen: 7.132 ug/l
RT: 8.265 min Scan# 1103
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

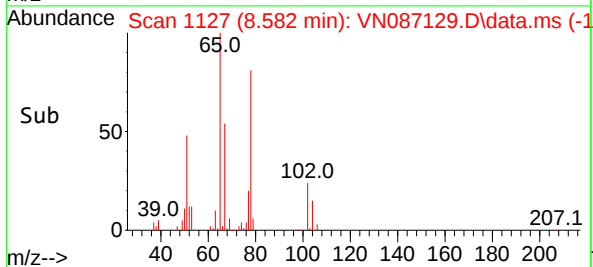
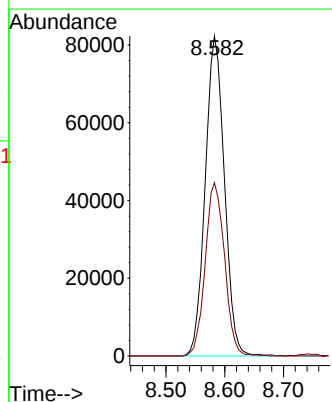
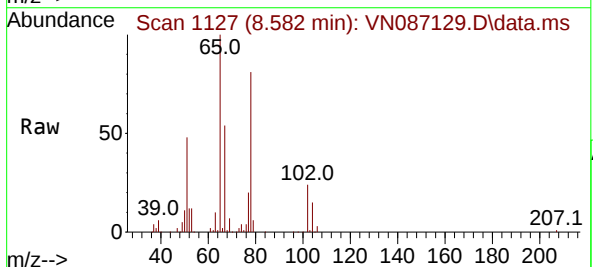
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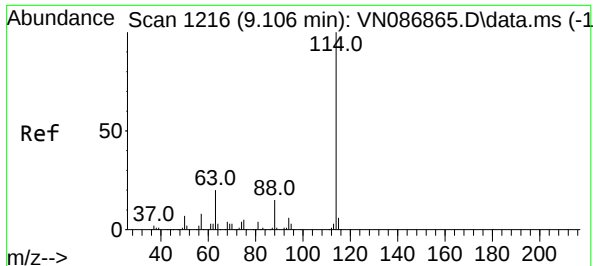
Tgt Ion: 56 Resp: 41103
Ion Ratio Lower Upper
56 100
69 35.4 25.4 38.0
84 89.2 68.8 103.2



#33
1,2-Dichloroethane-d4
Concen: 52.562 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 65 Resp: 186769
Ion Ratio Lower Upper
65 100
67 54.7 0.0 105.6

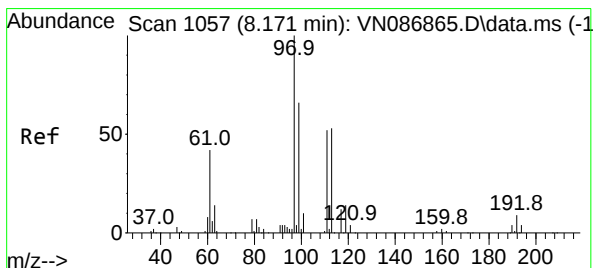
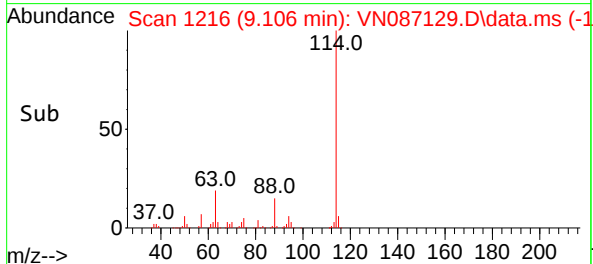
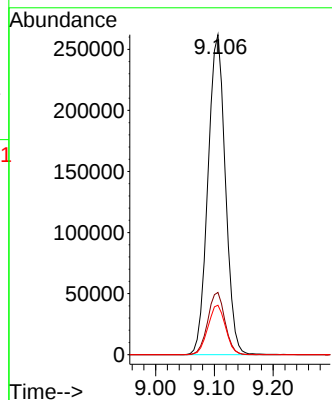
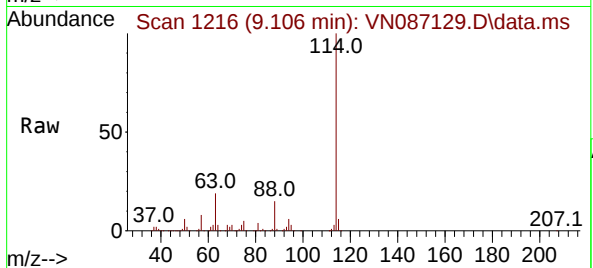




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

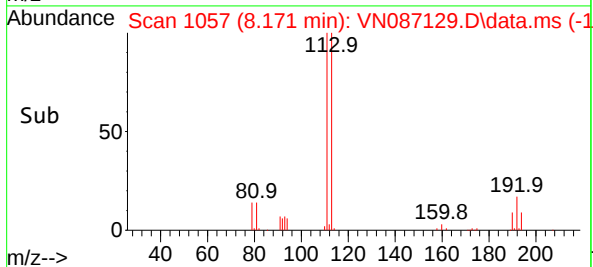
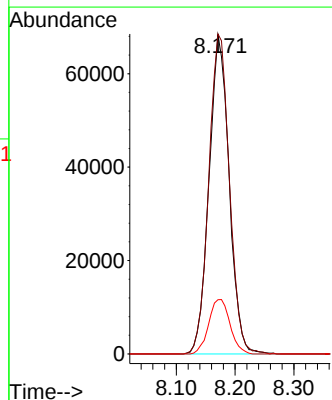
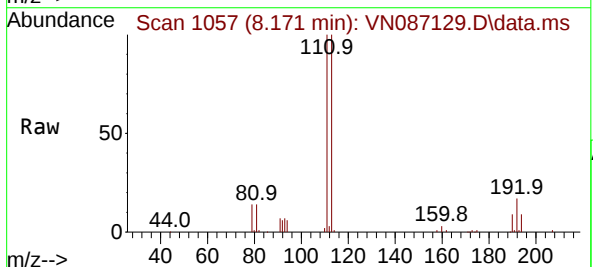
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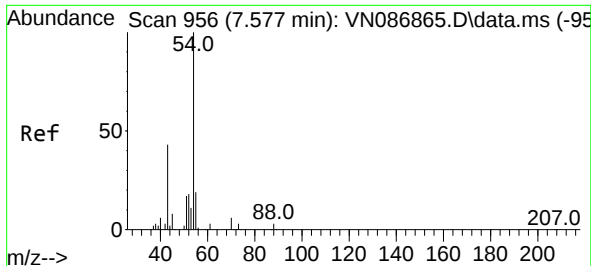
Tgt Ion:114 Resp: 539692
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.6
88 15.5 0.0 30.2



#35
Dibromofluoromethane
Concen: 50.847 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion:113 Resp: 162627
Ion Ratio Lower Upper
113 100
111 102.7 84.2 126.2
192 18.1 14.2 21.4





#37

Ethyl Acetate

Concen: 5.147 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087129.D

Acq: 20 Jun 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

3321

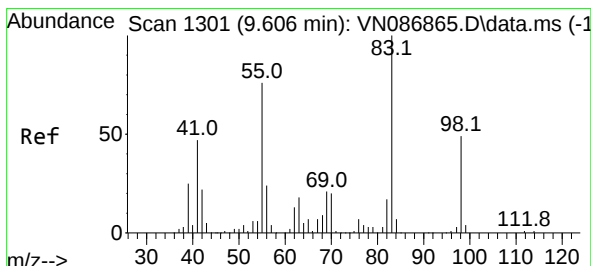
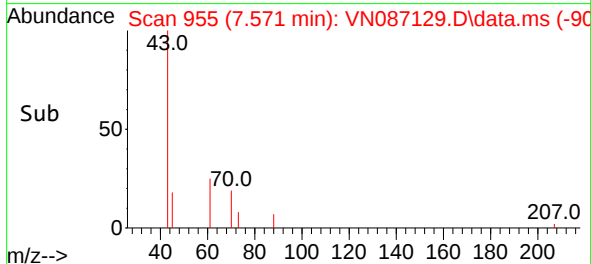
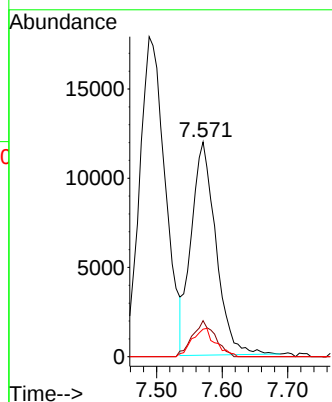
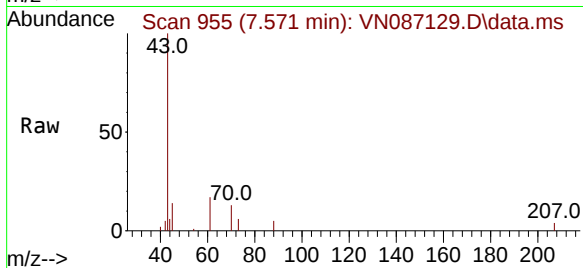
Tgt Ion: 43 Resp: 31227

Ion Ratio Lower Upper

43 100

61 15.5 12.1 18.1

70 12.5 9.8 14.6



#39

Methylcyclohexane

Concen: 5.792 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VN087129.D

Acq: 20 Jun 2025 11:42

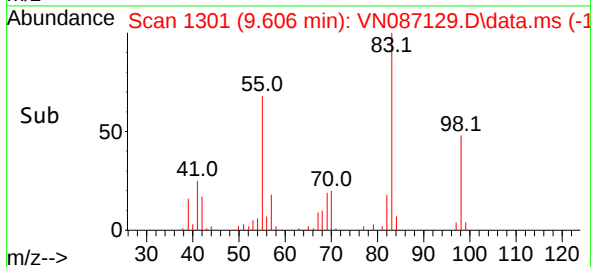
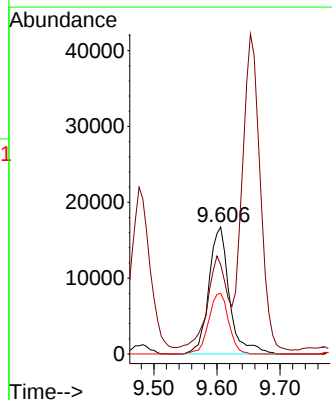
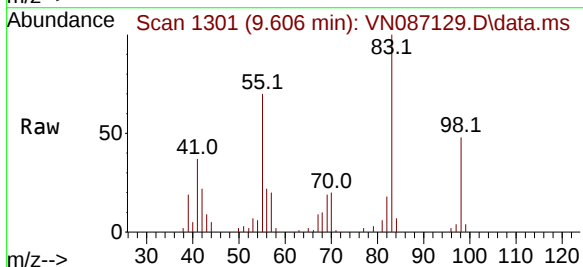
Tgt Ion: 83 Resp: 37821

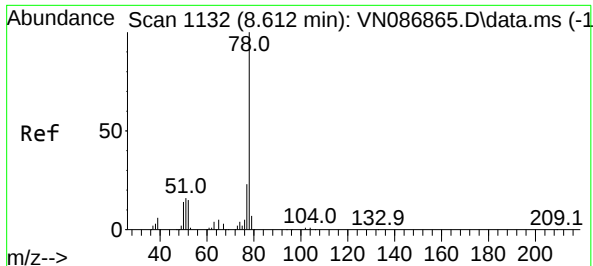
Ion Ratio Lower Upper

83 100

55 65.3 61.0 91.6

98 47.8 38.9 58.3

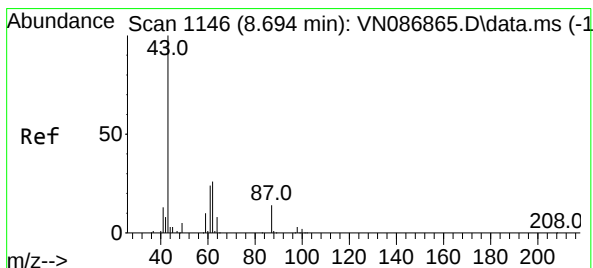
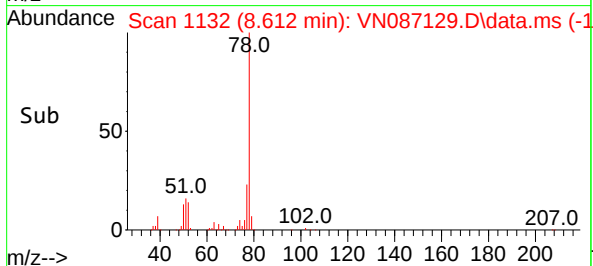
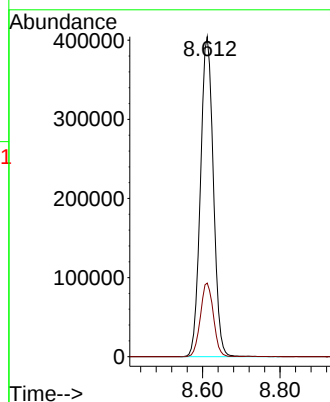
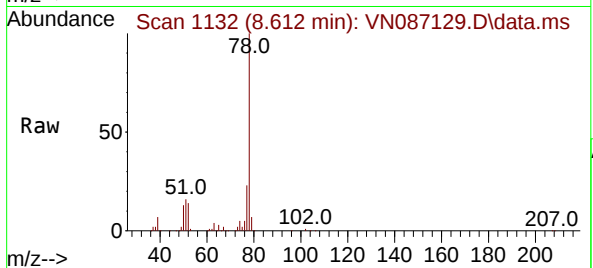




#40
Benzene
Concen: 59.836 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

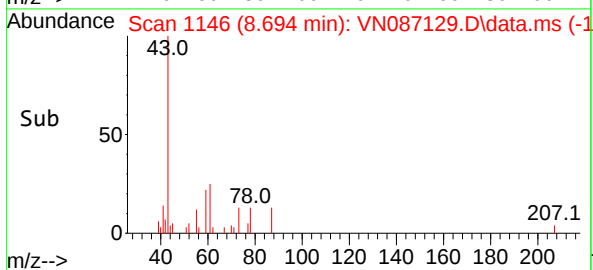
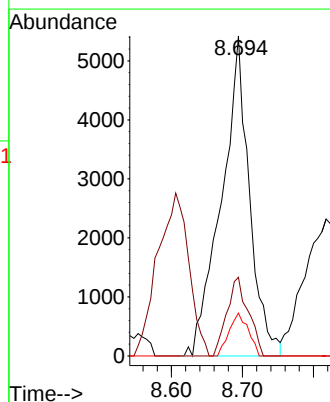
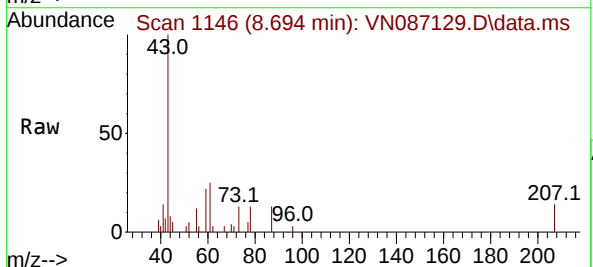
Instrument :
MSVOA_N
ClientSampleId :
3321

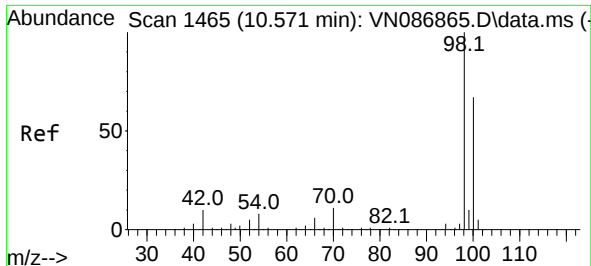
Tgt Ion: 78 Resp: 932515
Ion Ratio Lower Upper
78 100
77 23.0 18.7 28.1



#43
Isopropyl Acetate
Concen: 1.522 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 43 Resp: 14820
Ion Ratio Lower Upper
43 100
61 18.8 22.1 33.1#
87 9.2 11.8 17.6#

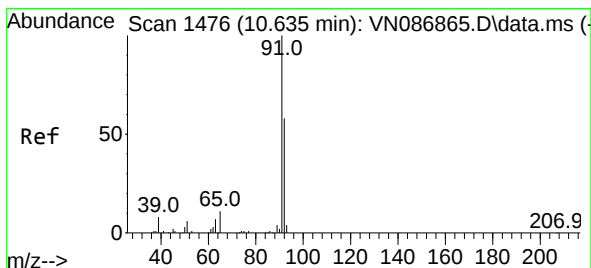
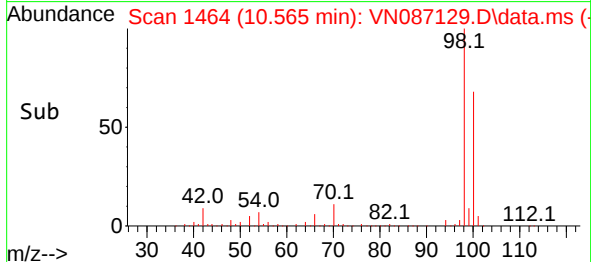
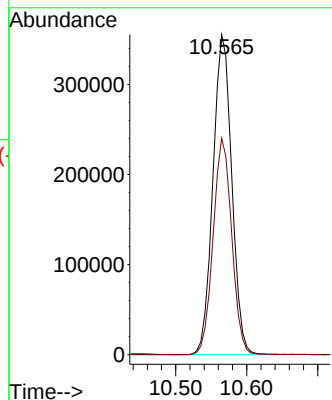
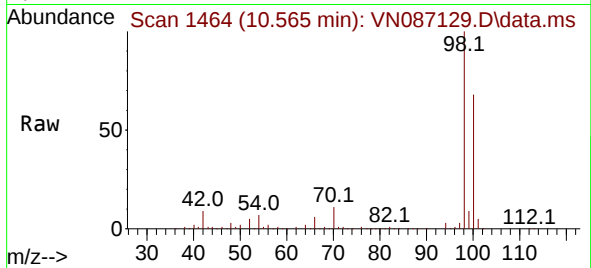




#50
Toluene-d8
Concen: 51.546 ug/l
RT: 10.565 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

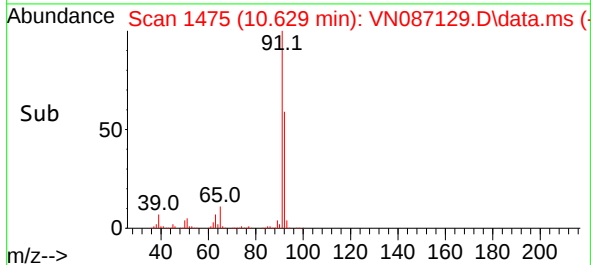
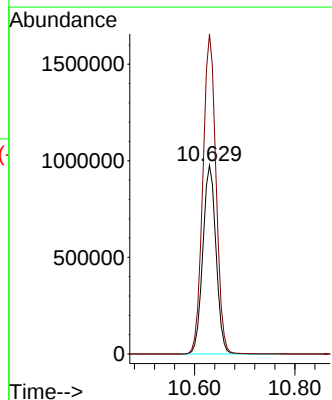
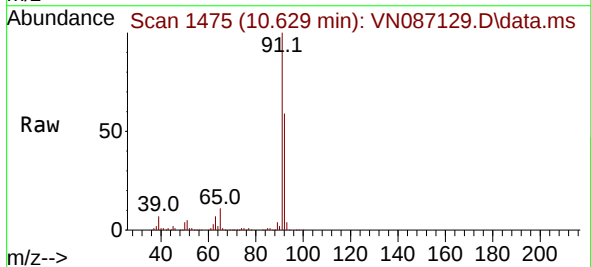
Instrument :
MSVOA_N
ClientSampleId :
3321

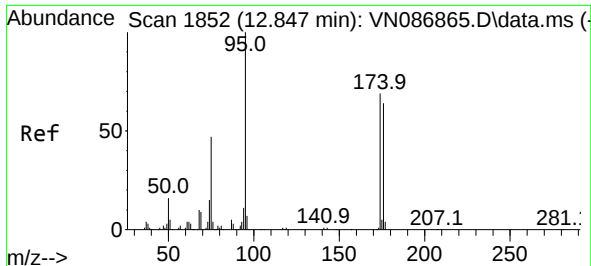
Tgt Ion: 98 Resp: 652648
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.0



#52
Toluene
Concen: 187.202 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 92 Resp: 1782927
Ion Ratio Lower Upper
92 100
91 169.4 136.5 204.7

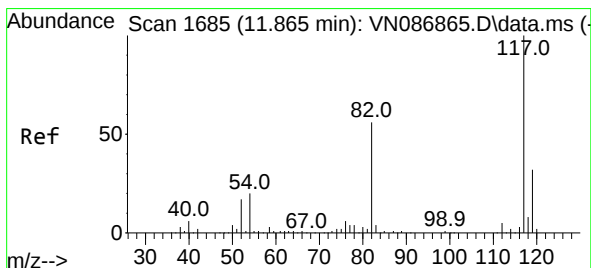
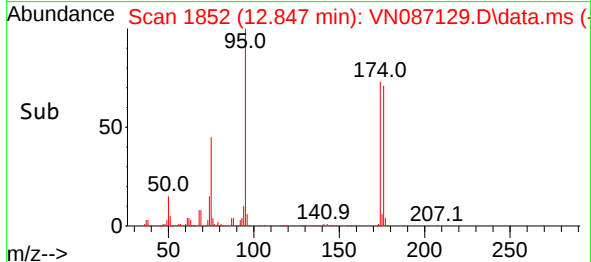
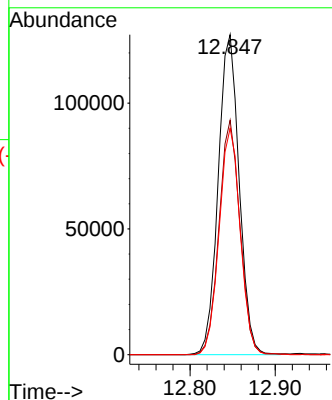
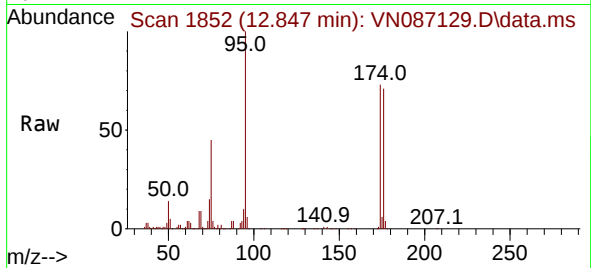




#62
4-Bromofluorobenzene
Concen: 46.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

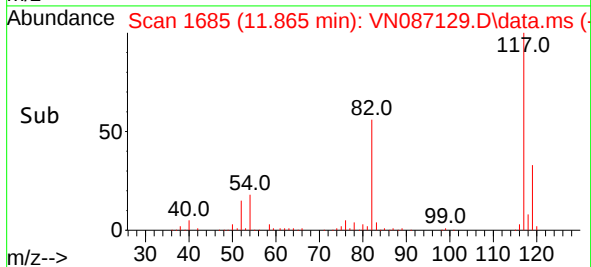
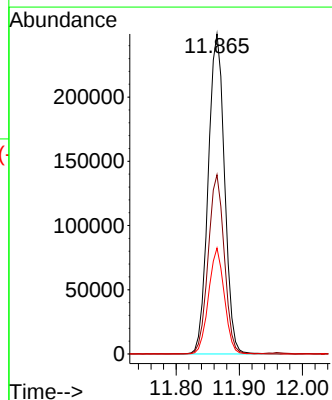
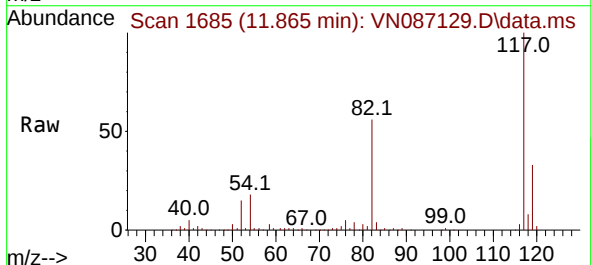
Instrument :
MSVOA_N
ClientSampleId :
3321

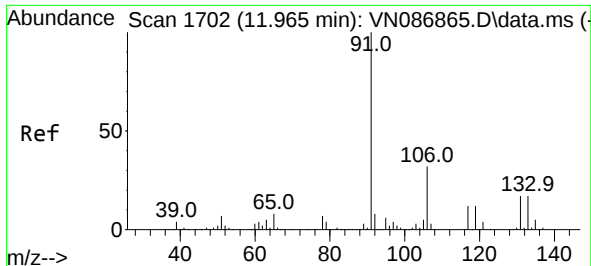
Tgt Ion: 95 Resp: 217510
Ion Ratio Lower Upper
95 100
174 73.4 0.0 141.8
176 71.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 117 Resp: 447089
Ion Ratio Lower Upper
117 100
82 55.9 44.6 67.0
119 33.1 25.5 38.3

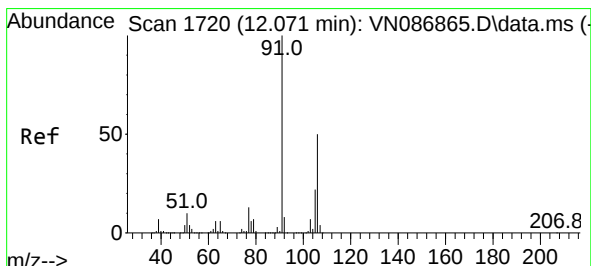
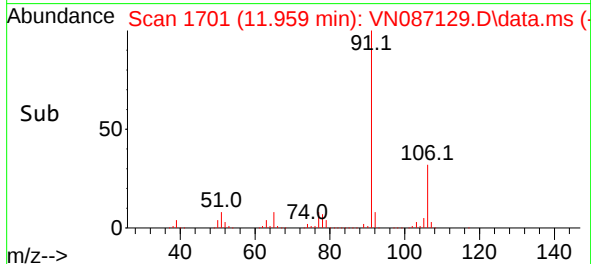
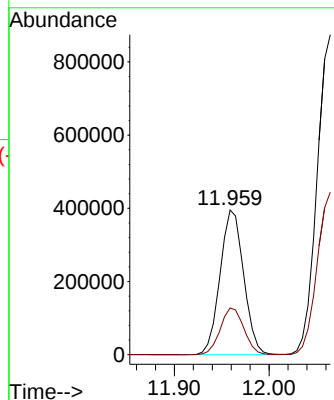
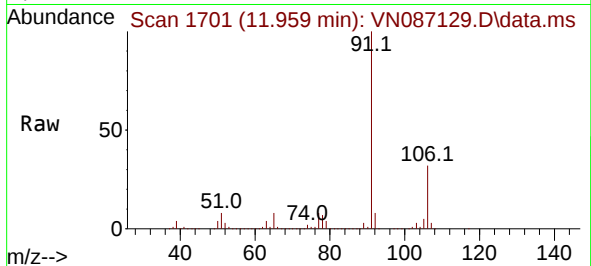




#67
Ethyl Benzene
Concen: 40.353 ug/l
RT: 11.959 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

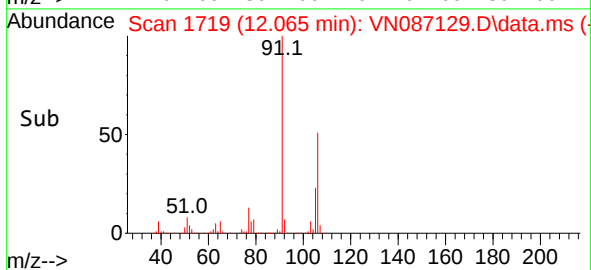
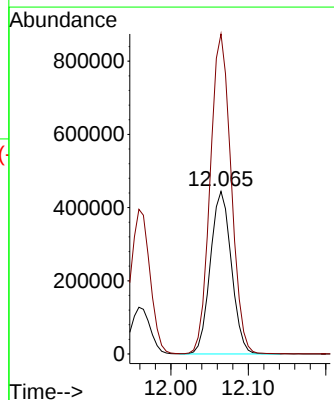
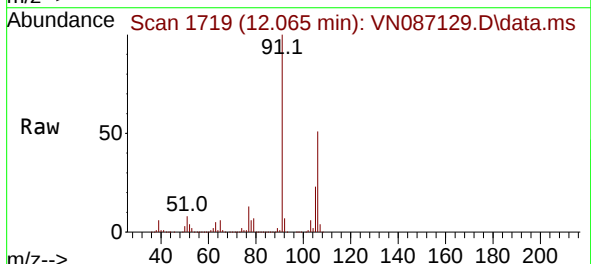
Instrument :
MSVOA_N
ClientSampleId :
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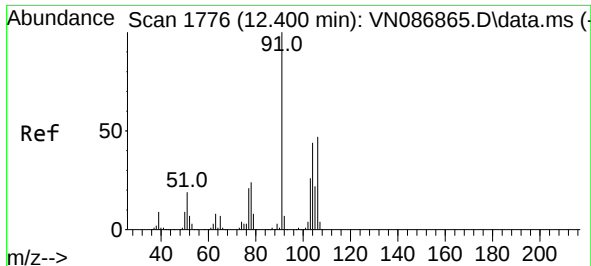
Tgt Ion: 91 Resp: 685386
Ion Ratio Lower Upper
91 100
106 32.3 25.4 38.2



#68
m/p-Xylenes
Concen: 128.482 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion:106 Resp: 835365
Ion Ratio Lower Upper
106 100
91 196.2 159.4 239.0

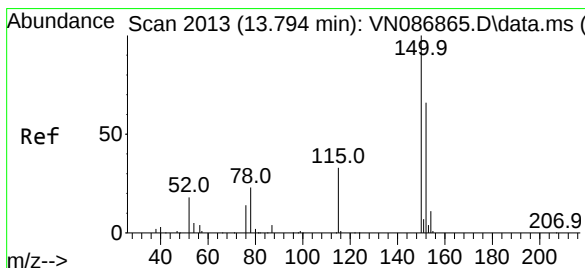
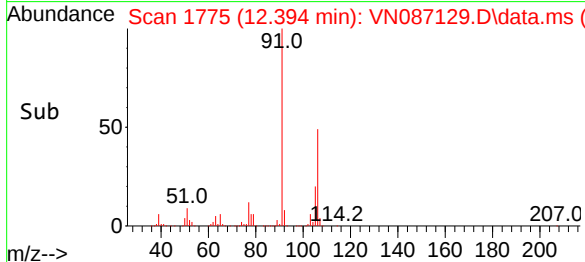
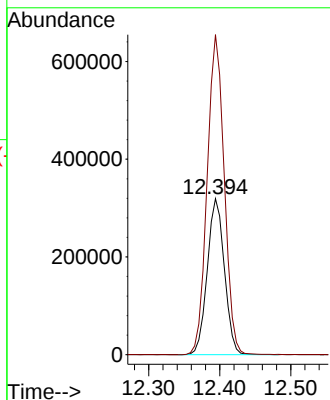
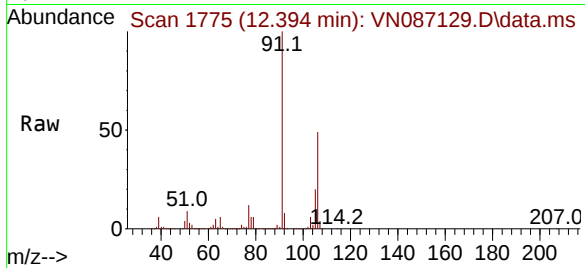




#69
o-Xylene
Concen: 85.790 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

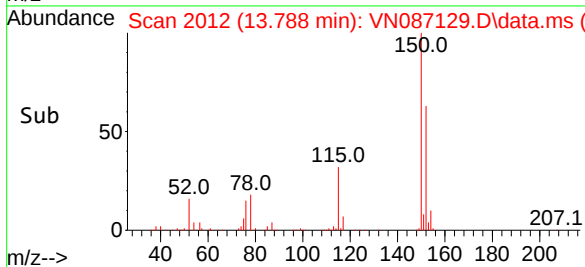
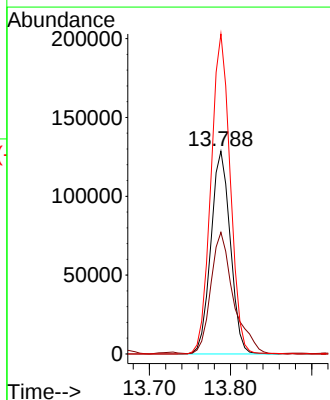
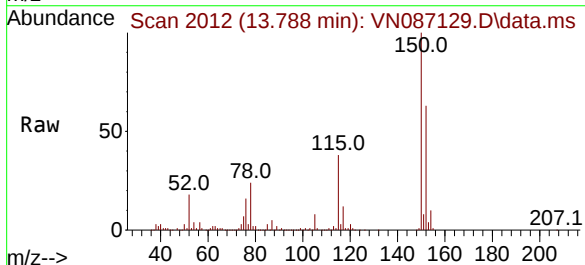
Instrument :
MSVOA_N
ClientSampleId :
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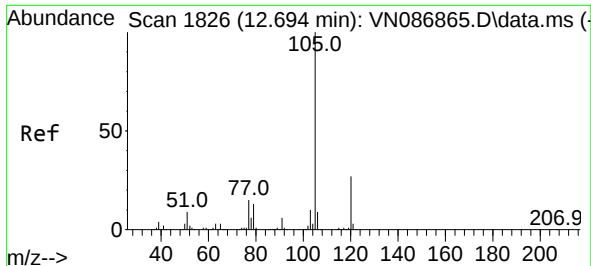
Tgt Ion:106 Resp: 534218
Ion Ratio Lower Upper
106 100
91 205.3 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion:152 Resp: 213690
Ion Ratio Lower Upper
152 100
115 69.5 30.1 90.5
150 156.7 0.0 345.0

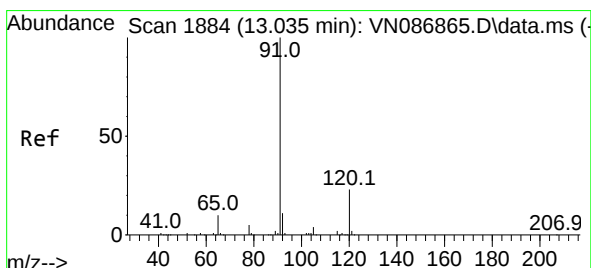
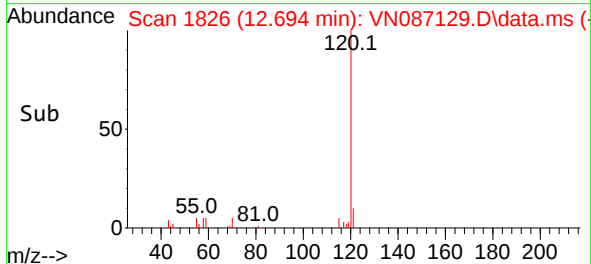
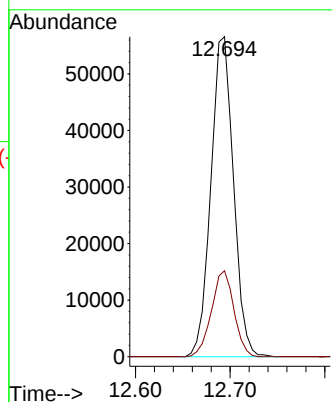
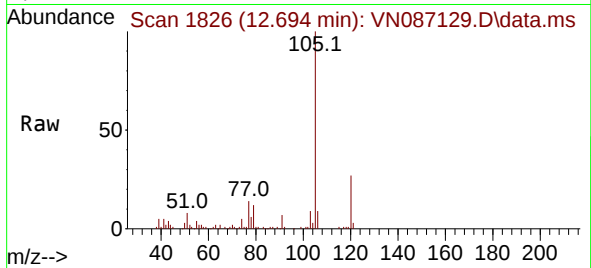




#73
Isopropylbenzene
Concen: 6.020 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

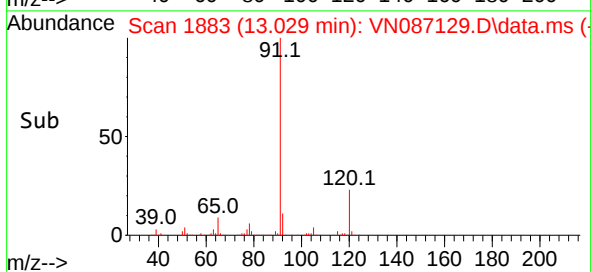
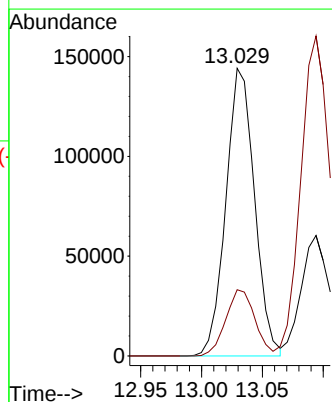
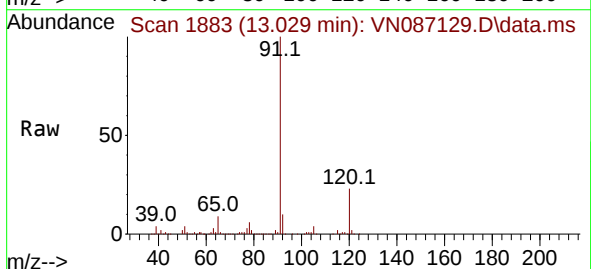
Instrument :
MSVOA_N
ClientSampleId :
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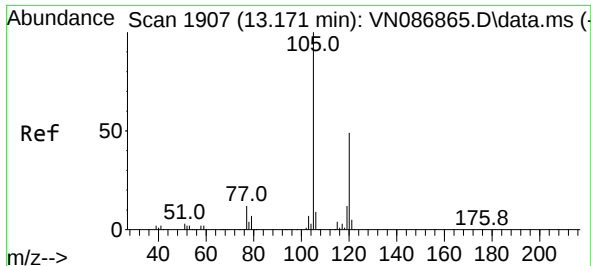
Tgt Ion:105 Resp: 93716
Ion Ratio Lower Upper
105 100
120 26.7 13.5 40.4



#78
n-propylbenzene
Concen: 12.492 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion: 91 Resp: 236328
Ion Ratio Lower Upper
91 100
120 23.4 11.4 34.2

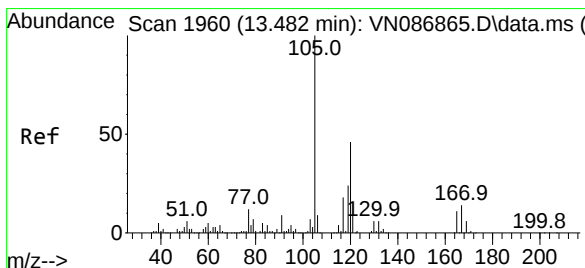
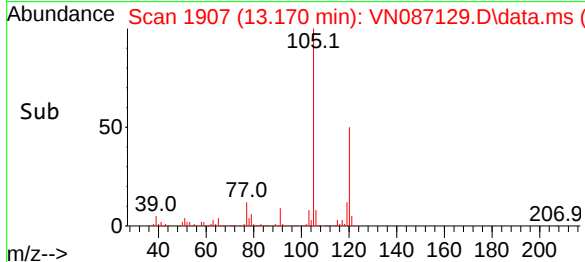
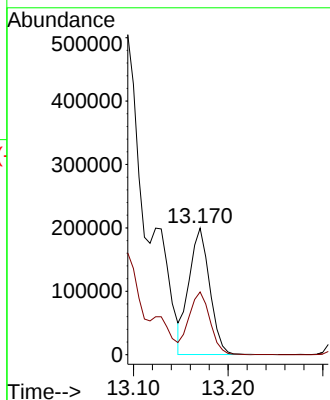
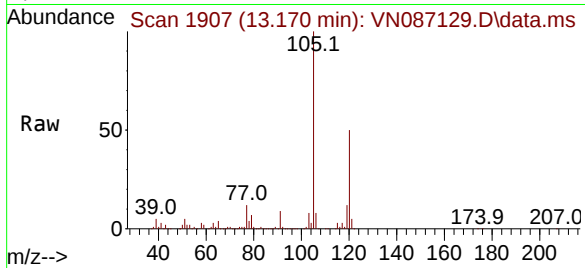




#80
1,3,5-Trimethylbenzene
Concen: 23.638 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

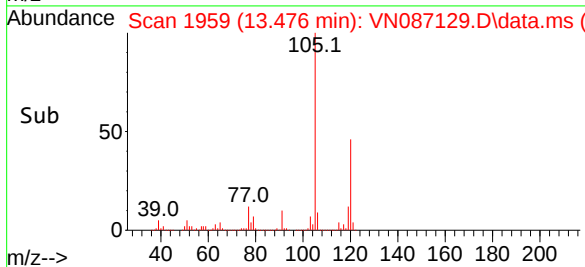
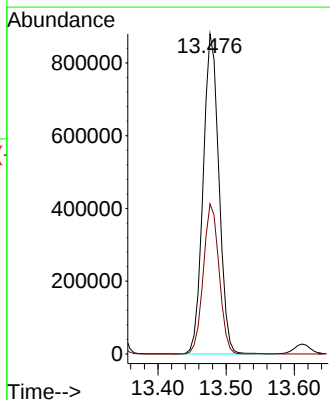
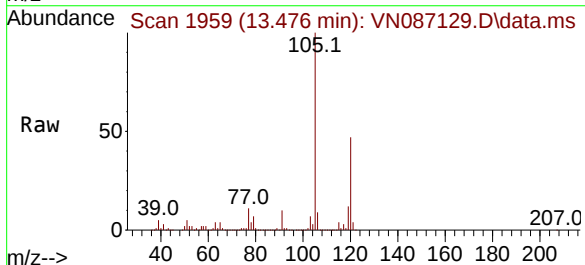
Instrument :
MSVOA_N
ClientSampleId :
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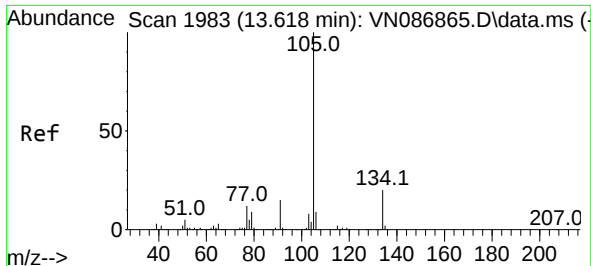
Tgt Ion:105 Resp: 303819
Ion Ratio Lower Upper
105 100
120 50.6 24.9 74.6



#84
1,2,4-Trimethylbenzene
Concen: 109.884 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN087129.D
Acq: 20 Jun 2025 11:42

Tgt Ion:105 Resp: 1416229
Ion Ratio Lower Upper
105 100
120 47.0 23.2 69.6

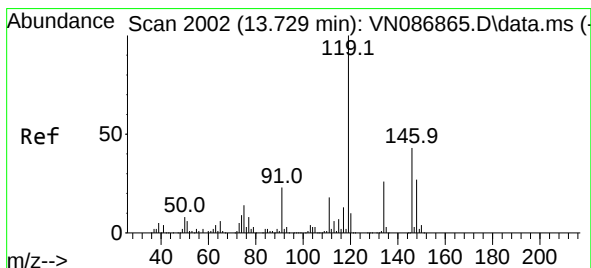
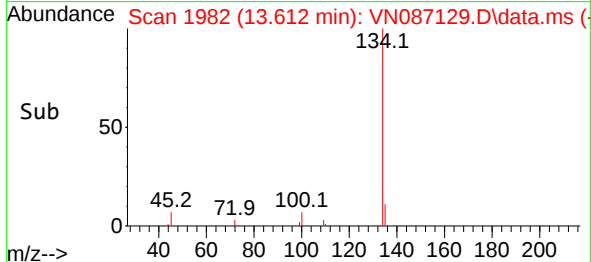
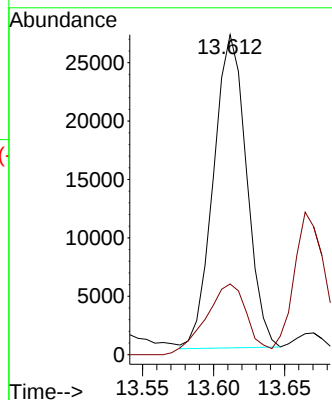
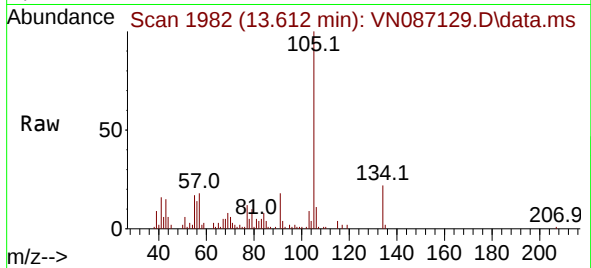




#85
 sec-Butylbenzene
 Concen: 2.544 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN087129.D
 Acq: 20 Jun 2025 11:42

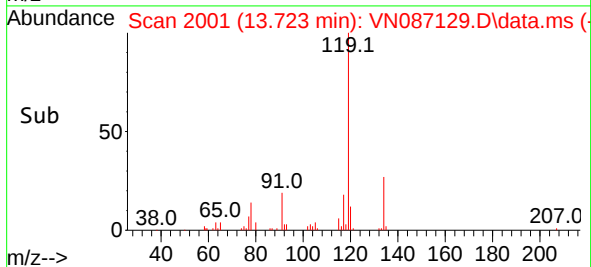
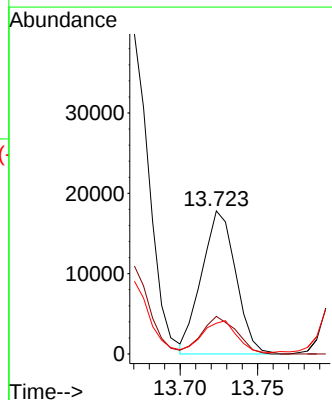
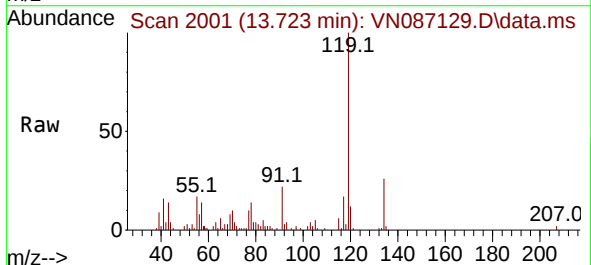
Instrument :
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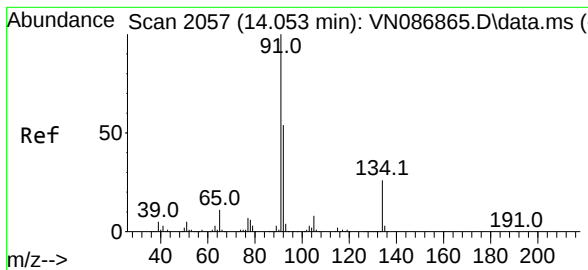
Tgt Ion:105 Resp: 43465
 Ion Ratio Lower Upper
 105 100
 134 28.2 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 1.935 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN087129.D
 Acq: 20 Jun 2025 11:42

Tgt Ion:119 Resp: 27322
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.5 40.4
 91 21.8 11.5 34.4





#89
 n-Butylbenzene
 Concen: 2.673 ug/l
 RT: 14.053 min Scan# 2057
 Delta R.T. -0.000 min
 Lab File: VN087129.D
 Acq: 20 Jun 2025 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 3321

Tgt Ion:	91	Resp:	36568
Ion	Ratio	Lower	Upper
91	100		
92	57.3	27.5	82.4
134	0.0	13.0	39.0#

