

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR120425\
 Data File : VR026796.D
 Acq On : 4 Dec 2025 16:30
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5mL/MSVOA_R/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

Quant Time: Dec 05 04:08:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R120425S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 04:05:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.796	168	701221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.765	114	1273882	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.915	117	1253402	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.124	152	714960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.172	65	369494	43.311	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.620%	
35) Dibromofluoromethane	7.719	113	331425	45.910	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.820%	
50) Toluene-d8	10.428	98	1640975	48.269	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.540%	
62) 4-Bromofluorobenzene	13.043	95	625679	47.886	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.780%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.208	50	4470	0.409	ug/l #	68
8) Diethyl Ether	3.565	74	1342	0.300	ug/l	81
10) Methyl Iodide	4.124	142	8861	5.631	ug/l #	94
11) Tert butyl alcohol	5.011	59	1425	0.499	ug/l #	1
13) Acrolein	3.765	56	837	3.775	ug/l #	1
15) Acrylonitrile	5.140	53	5109	1.990	ug/l #	34
16) Acetone	3.983	43	19634	5.285	ug/l #	85
18) Methyl Acetate	4.482	43	3789	3.589	ug/l #	86
20) Methylene Chloride	4.699	84	22582	2.120	ug/l #	81
25) 2-Butanone	6.979	43	23633	5.164	ug/l	97
29) Tetrahydrofuran	7.349	42	4208	1.995	ug/l #	66
31) Cyclohexane	7.784	56	10166	0.518	ug/l #	60
36) 1,1-Dichloropropene	7.790	75	63936	4.796	ug/l #	51
37) Ethyl Acetate	7.067	43	4207	0.611	ug/l #	83
38) Carbon Tetrachloride	7.796	117	75737	6.393	ug/l #	13
41) Methacrylonitrile	7.302	41	5159	1.236	ug/l #	49
43) Isopropyl Acetate	8.336	43	6465	0.462	ug/l #	75
48) Methyl methacrylate	9.429	41	1445	0.210	ug/l #	1
49) 1,4-Dioxane	9.453	88	4084	41.432	ug/l #	64
51) 4-Methyl-2-Pentanone	10.299	43	52734	7.089	ug/l	93
56) Ethyl methacrylate	10.792	69	7623	0.712	ug/l #	75
58) 2-Chloroethyl Vinyl ether	9.711	63	548	0.854	ug/l	94
59) 2-Hexanone	11.162	43	69899	10.594	ug/l	95
68) m/p-Xylenes	12.155	106	7185	0.333	ug/l	91
70) Styrene	12.549	104	15235	0.428	ug/l #	71
74) N-amyl acetate	12.655	43	36388	2.690	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.143	83	1830	0.219	ug/l #	93
76) 1,2,3-Trichloropropane	13.049	75	338754	44.677	ug/l #	1
77) Bromobenzene	13.201	156	4542	0.430	ug/l	80
78) n-propylbenzene	13.260	91	26614	0.418	ug/l	90
80) 1,3,5-Trimethylbenzene	13.419	105	8991	0.208	ug/l	87
81) trans-1,4-Dichloro-2-b...	13.049	75	338754	117.657	ug/l #	13
82) 4-Chlorotoluene	13.477	91	14245	0.381	ug/l	82
84) 1,2,4-Trimethylbenzene	13.771	105	21211	0.458	ug/l #	61
85) sec-Butylbenzene	13.918	105	23692	0.386	ug/l	97
86) p-Isopropyltoluene	14.047	119	25030	0.463	ug/l	86

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Quant Title : SW846 8260
QLast Update : Fri Dec 05 04:05:32 2025
Response via : Initial Calibration

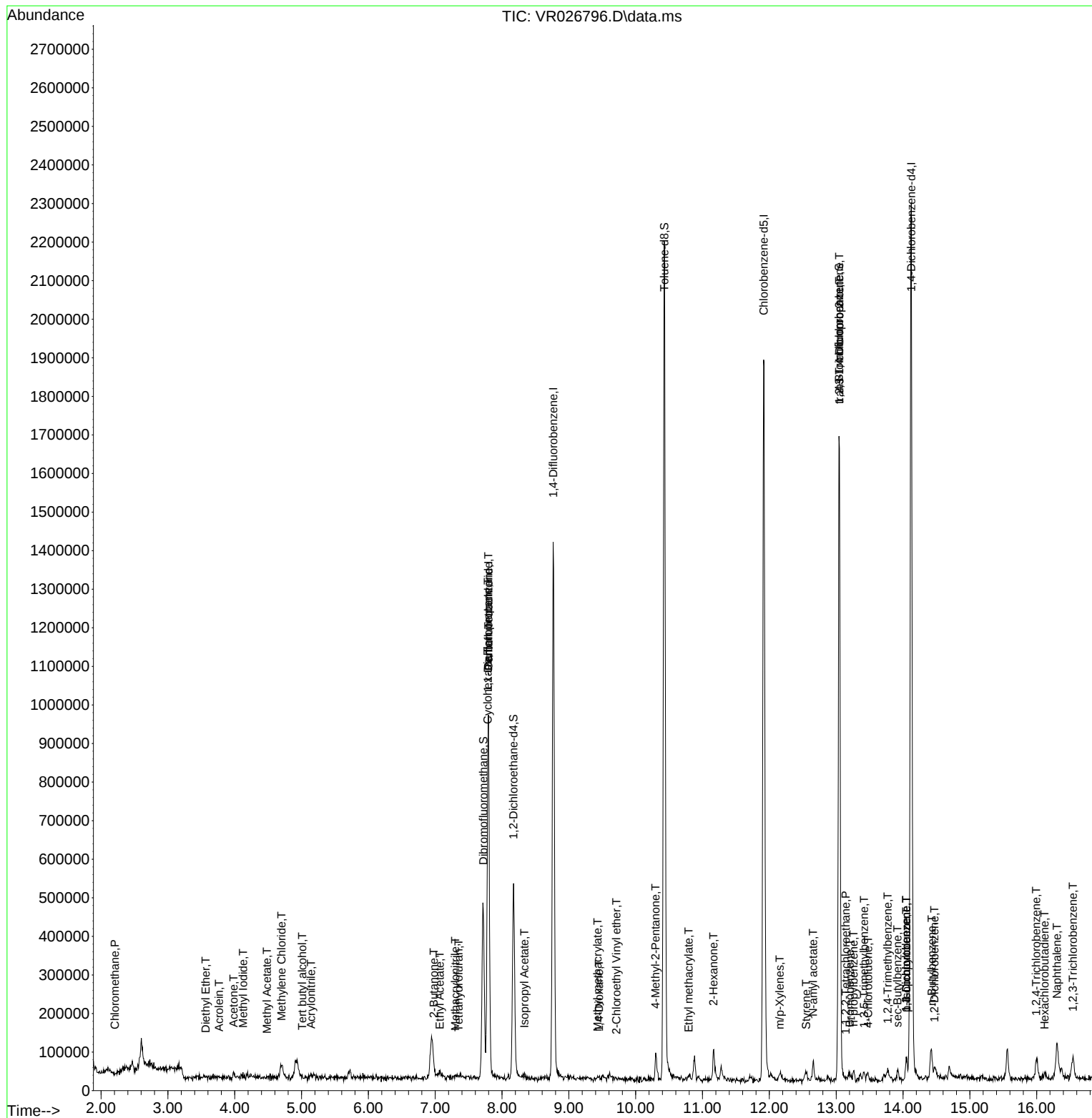
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) 1,3-Dichlorobenzene	14.047	146	13627	0.533	ug/l	96
88) 1,4-Dichlorobenzene	14.047	146	13627	0.505	ug/l	95
89) n-Butylbenzene	14.429	91	62190	1.117	ug/l	97
91) 1,2-Dichlorobenzene	14.470	146	7470	0.318	ug/l #	43
93) 1,2,4-Trichlorobenzene	15.992	180	12133	0.805	ug/l #	24
94) Hexachlorobutadiene	16.116	225	1789	0.257	ug/l #	56
95) Naphthalene	16.304	128	123195	7.400	ug/l #	90
96) 1,2,3-Trichlorobenzene	16.544	180	27986	2.184	ug/l	96

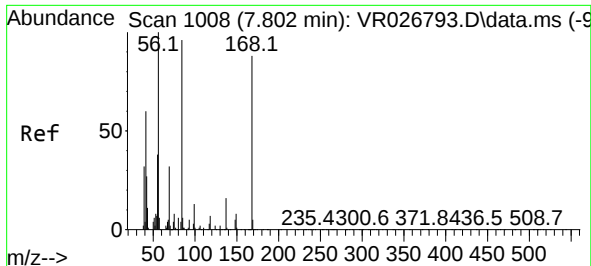
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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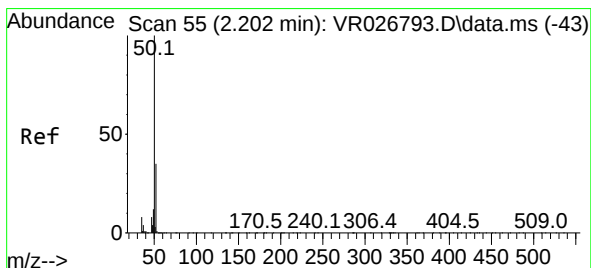
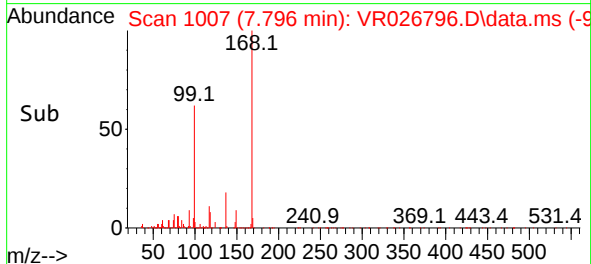
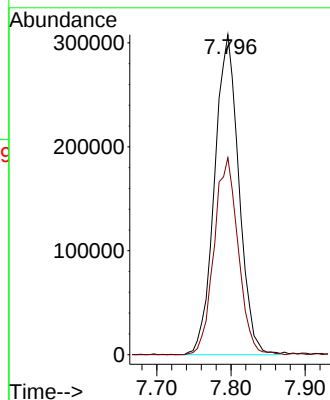
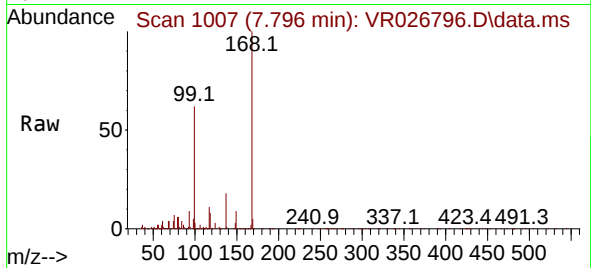




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.796 min Scan# 10
Delta R.T. -0.006 min
Lab File: VR026796.D
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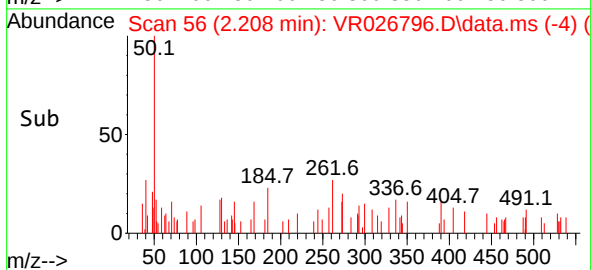
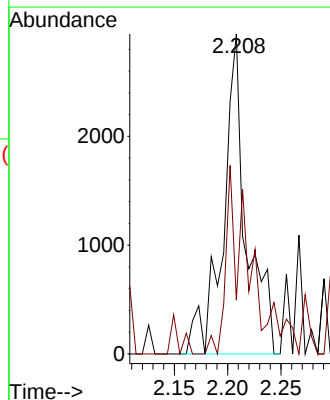
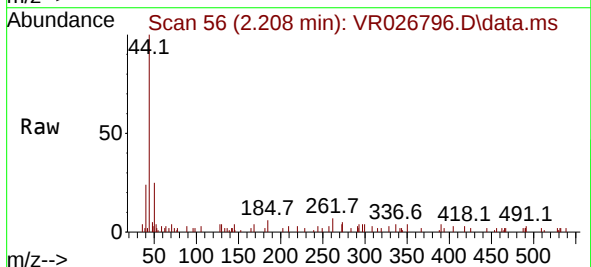
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

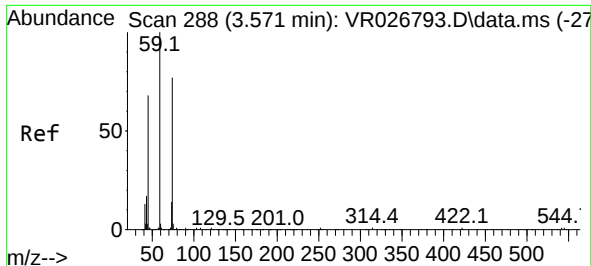
Tgt Ion:168 Resp: 701221
Ion Ratio Lower Upper
168 100
99 61.5 45.3 67.9



#3
Chloromethane
Concen: 0.409 ug/l
RT: 2.208 min Scan# 56
Delta R.T. 0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 50 Resp: 4470
Ion Ratio Lower Upper
50 100
52 16.8 28.2 42.4#

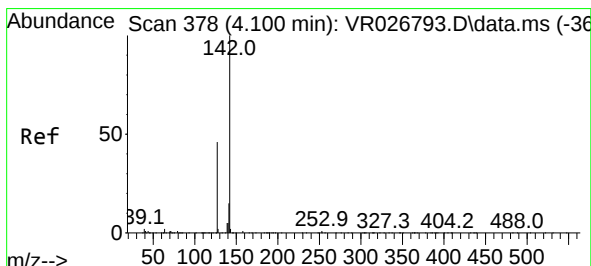
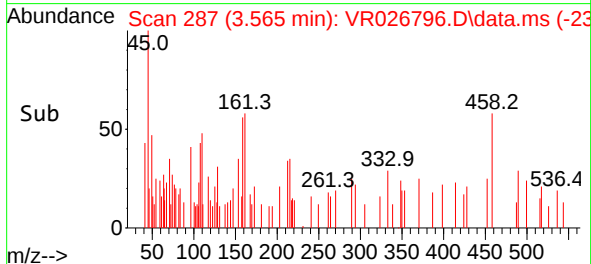
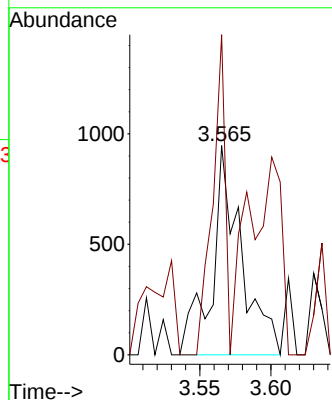
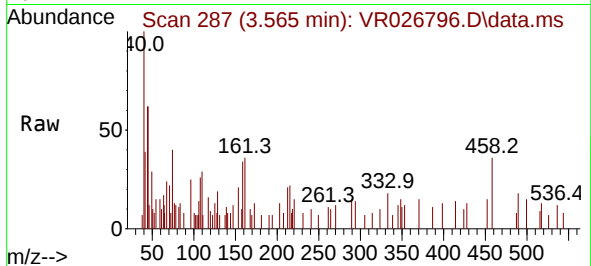




#8
Diethyl Ether
Concen: 0.300 ug/l
RT: 3.565 min Scan# 21
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

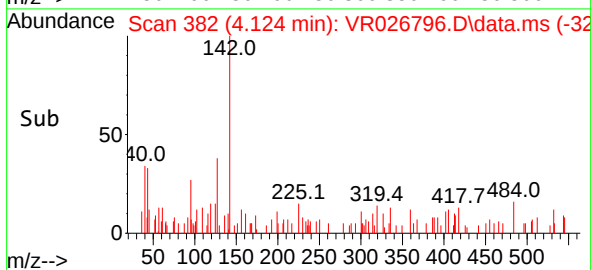
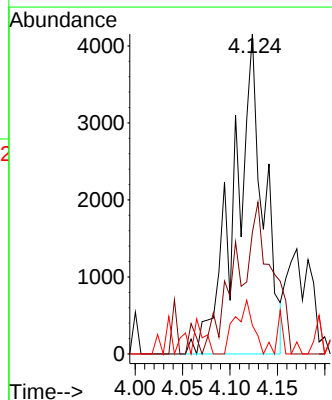
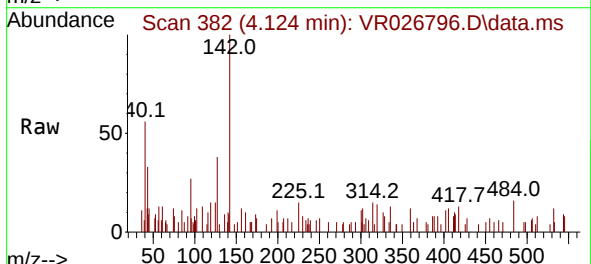
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

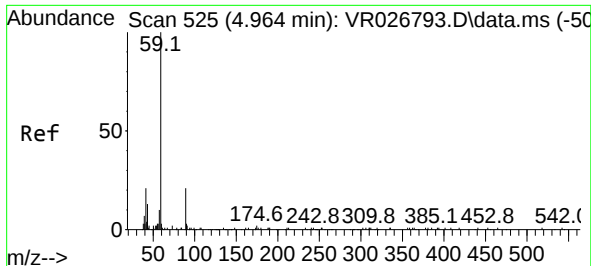
Tgt Ion: 74 Resp: 1342
Ion Ratio Lower Upper
74 100
45 80.8 49.9 149.7



#10
Methyl Iodide
Concen: 5.631 ug/l
RT: 4.124 min Scan# 382
Delta R.T. 0.024 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion:142 Resp: 8861
Ion Ratio Lower Upper
142 100
127 37.7 32.6 48.8
141 10.3 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.499 ug/l

RT: 5.011 min Scan# 51

Delta R.T. 0.047 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

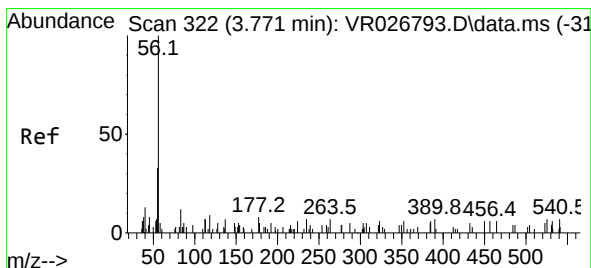
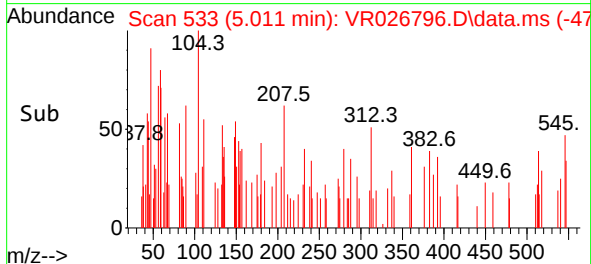
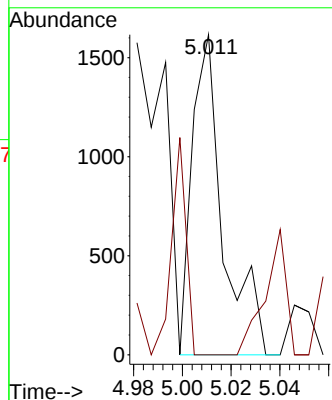
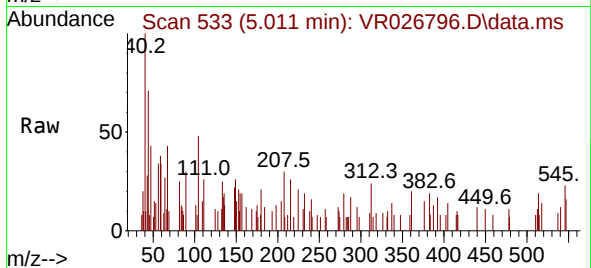
VIBLK

Tgt Ion: 59 Resp: 1425

Ion Ratio Lower Upper

59 100

57 38.1 3.1 4.7#



#13

Acrolein

Concen: 3.775 ug/l

RT: 3.765 min Scan# 321

Delta R.T. -0.006 min

Lab File: VR026796.D

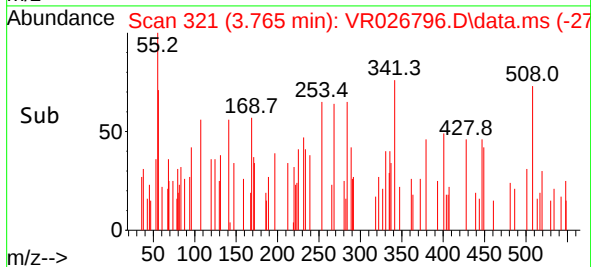
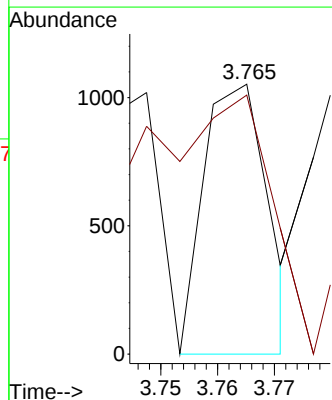
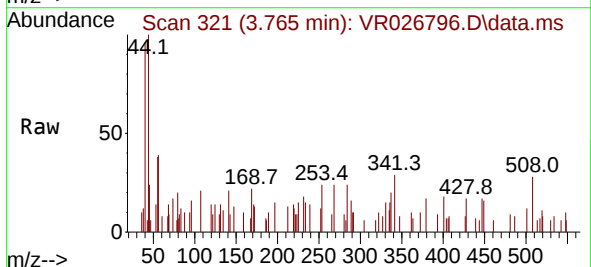
Acq: 4 Dec 2025 16:30

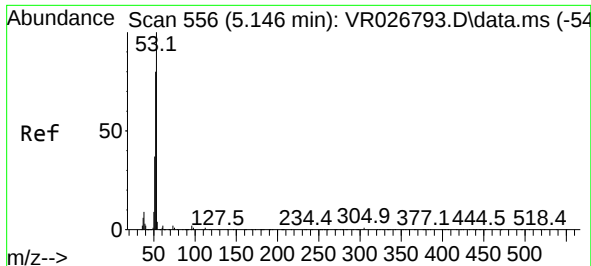
Tgt Ion: 56 Resp: 837

Ion Ratio Lower Upper

56 100

55 217.4 58.5 87.7#

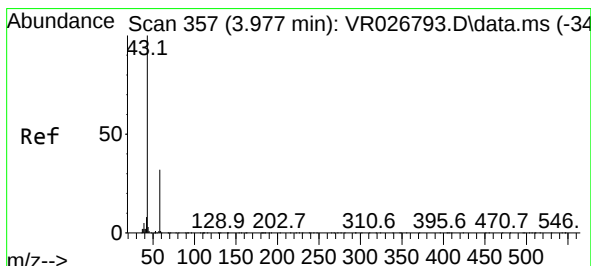
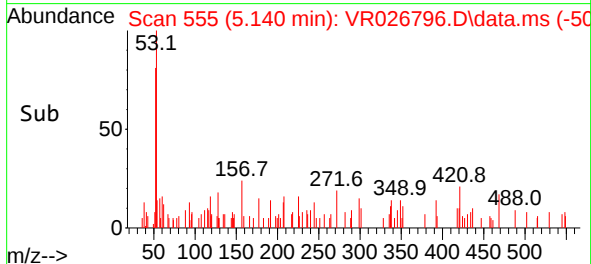
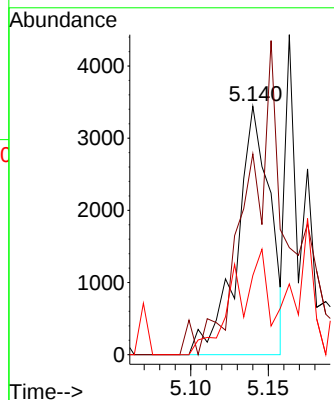
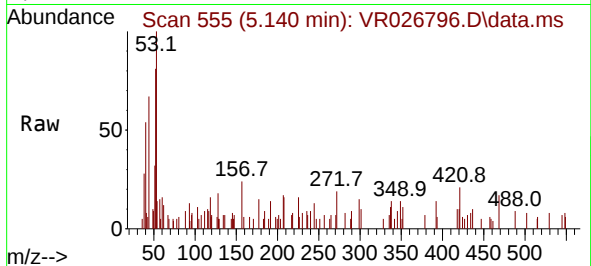




#15
Acrylonitrile
Concen: 1.990 ug/l
RT: 5.140 min Scan# 511
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

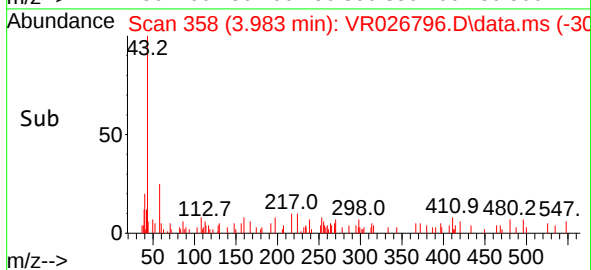
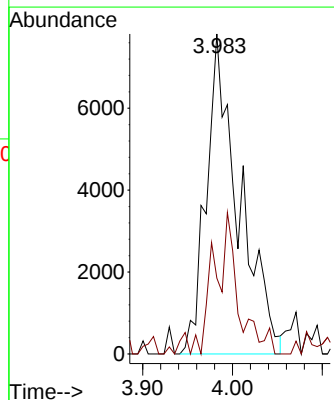
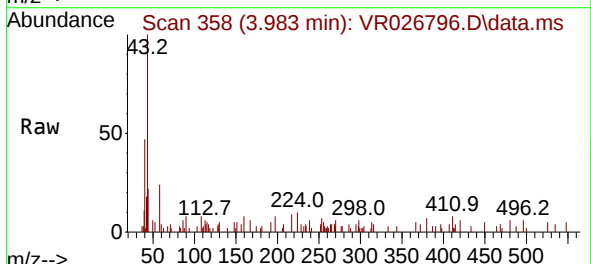
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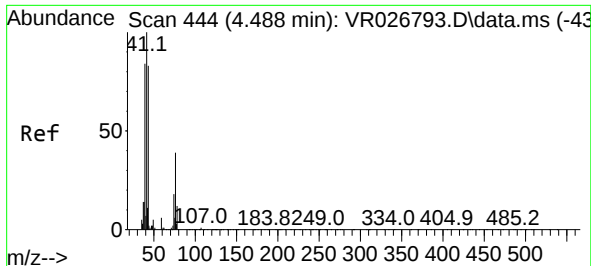
Tgt Ion: 53 Resp: 5109
Ion Ratio Lower Upper
53 100
52 160.2 65.9 98.9#
51 45.3 28.1 42.1#



#16
Acetone
Concen: 5.285 ug/l
RT: 3.983 min Scan# 358
Delta R.T. 0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 43 Resp: 19634
Ion Ratio Lower Upper
43 100
58 23.7 25.5 38.3#

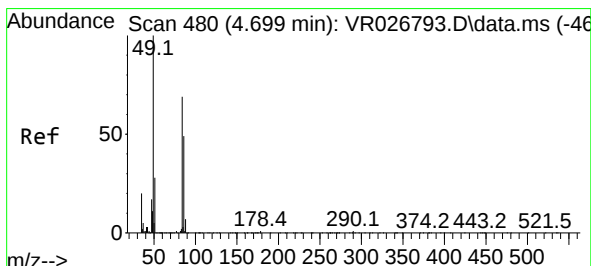
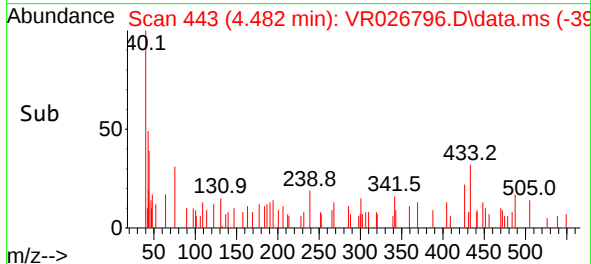
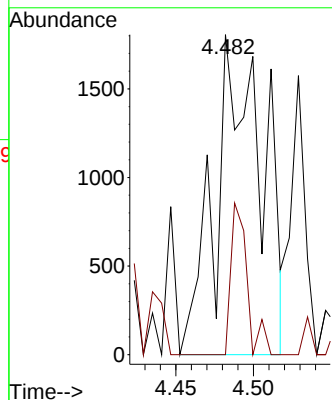
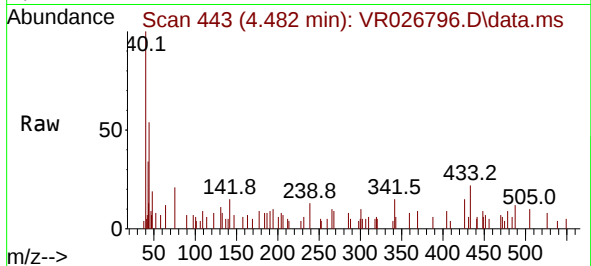




#18
Methyl Acetate
Concen: 3.589 ug/l
RT: 4.482 min Scan# 444
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

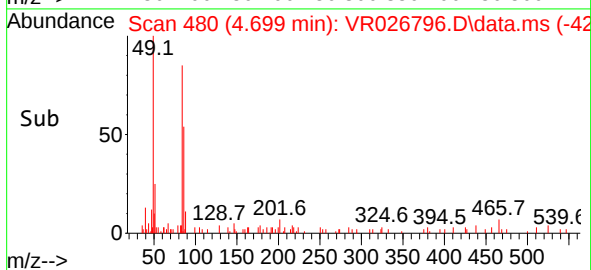
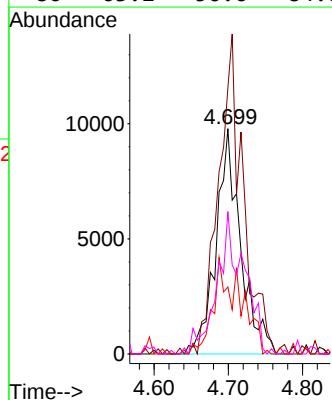
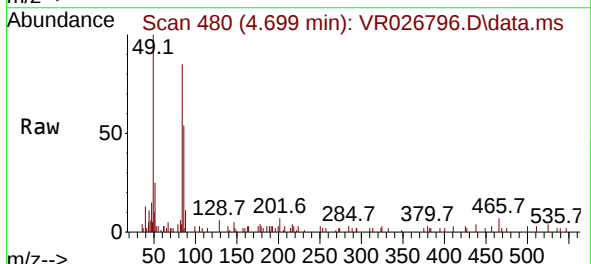
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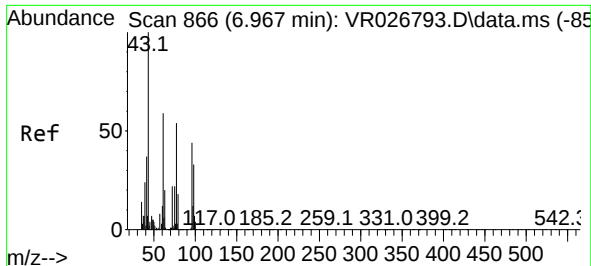
Tgt Ion: 43 Resp: 3789
Ion Ratio Lower Upper
43 100
74 16.3 18.3 27.5#



#20
Methylene Chloride
Concen: 2.120 ug/l
RT: 4.699 min Scan# 480
Delta R.T. 0.000 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 84 Resp: 22582
Ion Ratio Lower Upper
84 100
49 115.4 115.9 173.9#
51 29.7 31.9 47.9#
86 63.2 56.6 84.8

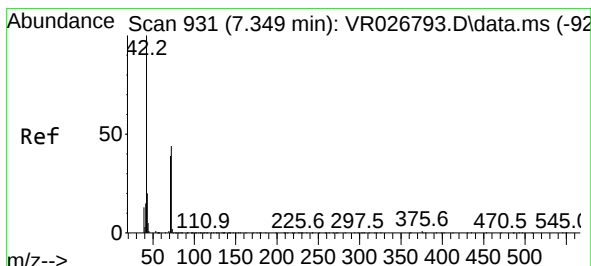
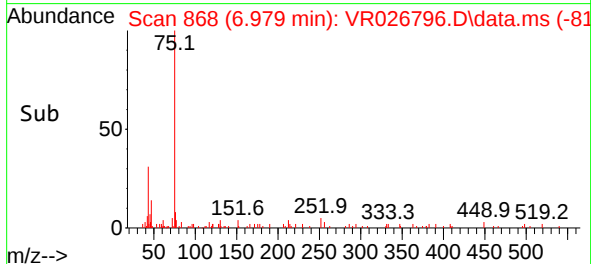
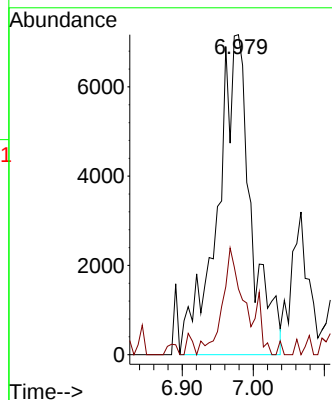
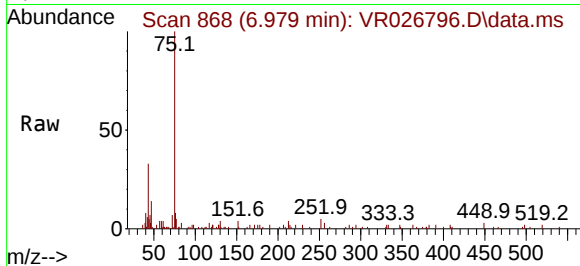




#25
2-Butanone
Concen: 5.164 ug/l
RT: 6.979 min Scan# 866
Delta R.T. 0.012 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

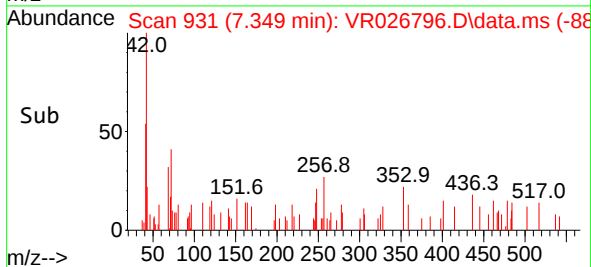
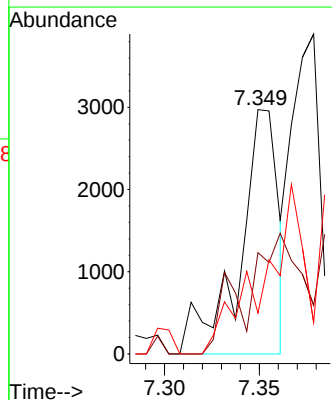
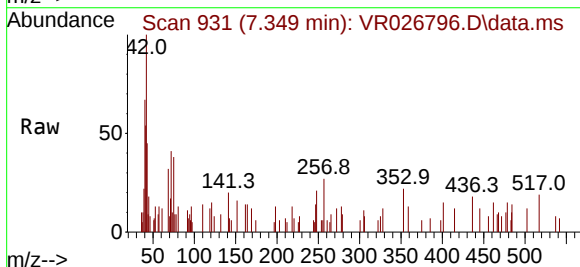
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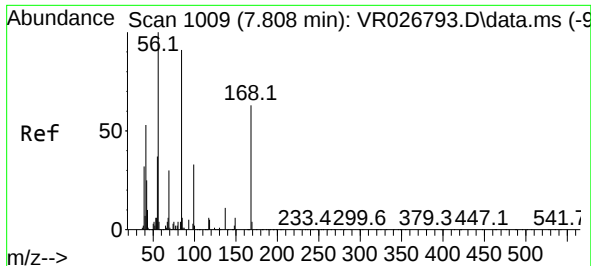
Tgt Ion: 43 Resp: 23633
Ion Ratio Lower Upper
43 100
72 20.6 17.4 26.2



#29
Tetrahydrofuran
Concen: 1.995 ug/l
RT: 7.349 min Scan# 931
Delta R.T. 0.000 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 42 Resp: 4208
Ion Ratio Lower Upper
42 100
72 54.5 35.4 53.2#
71 72.3 30.8 46.2#

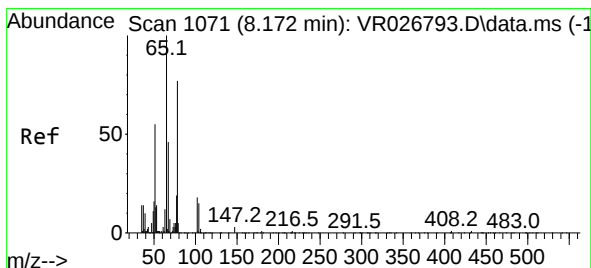
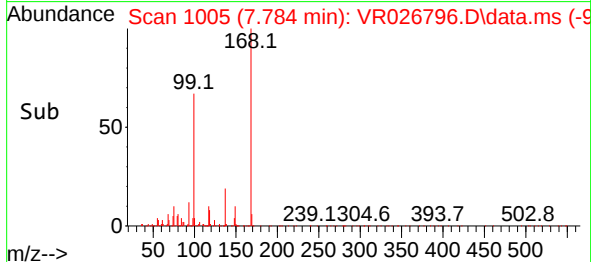
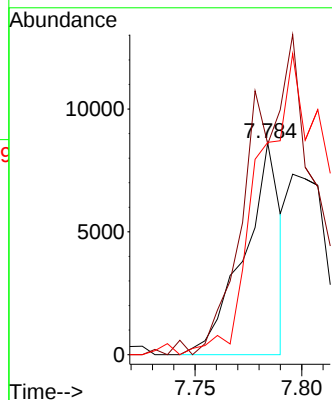
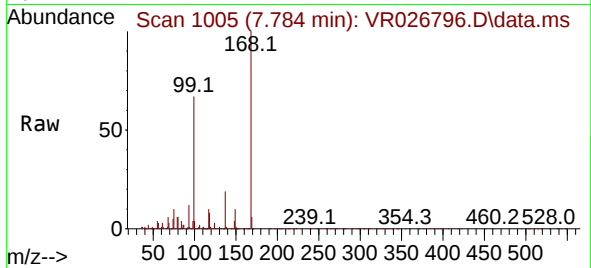




#31
Cyclohexane
Concen: 0.518 ug/l
RT: 7.784 min Scan# 1005
Delta R.T. -0.024 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

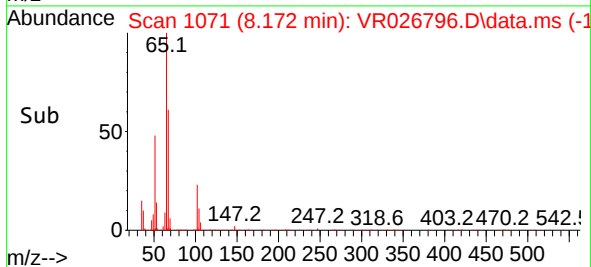
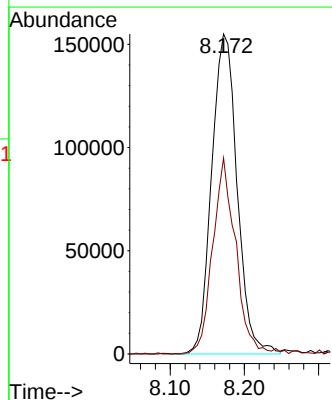
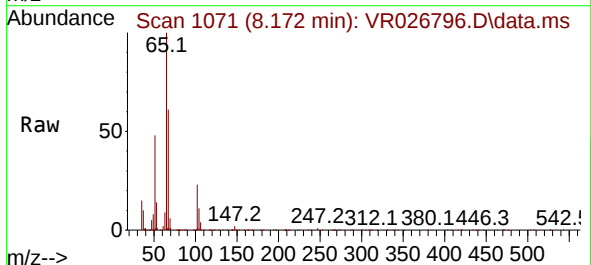
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

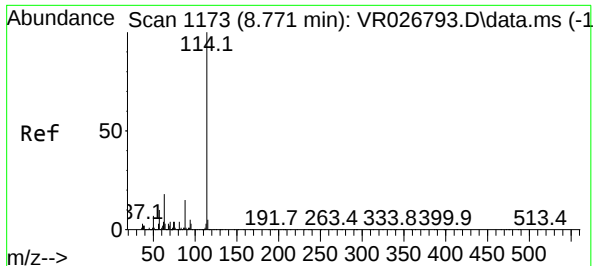
Tgt Ion: 56 Resp: 10166
Ion Ratio Lower Upper
56 100
69 92.8 23.8 35.6#
84 103.9 72.3 108.5



#33
1,2-Dichloroethane-d4
Concen: 43.311 ug/l
RT: 8.172 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 65 Resp: 369494
Ion Ratio Lower Upper
65 100
67 55.0 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.765 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

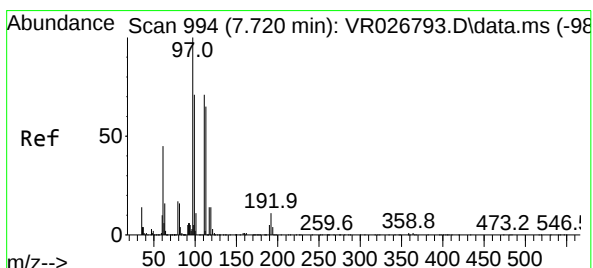
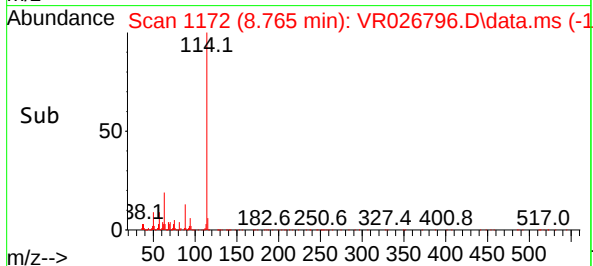
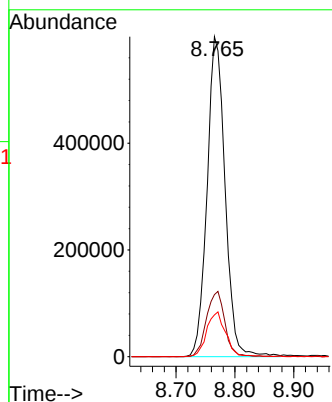
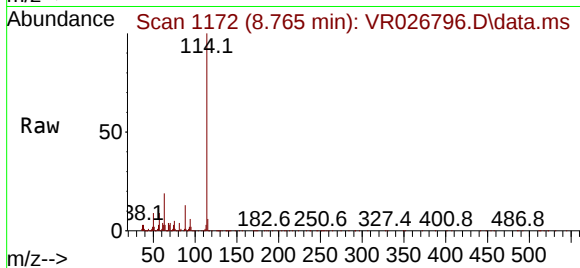
Tgt Ion:114 Resp: 1273882

Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.6

88 13.0 0.0 29.8



#35

Dibromofluoromethane

Concen: 45.910 ug/l

RT: 7.719 min Scan# 994

Delta R.T. -0.001 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

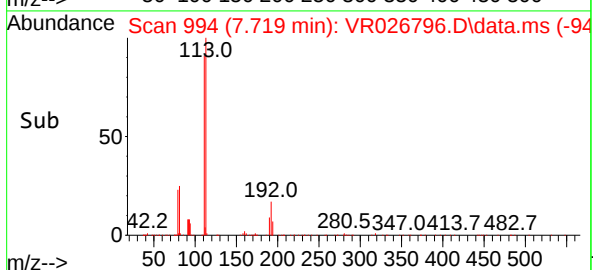
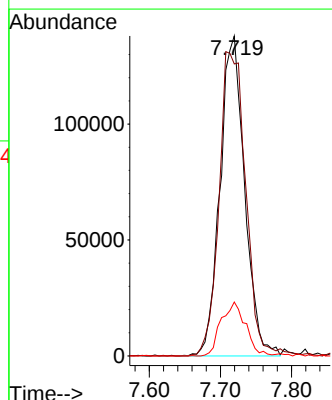
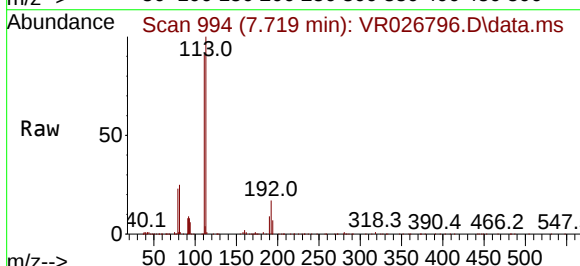
Tgt Ion:113 Resp: 331425

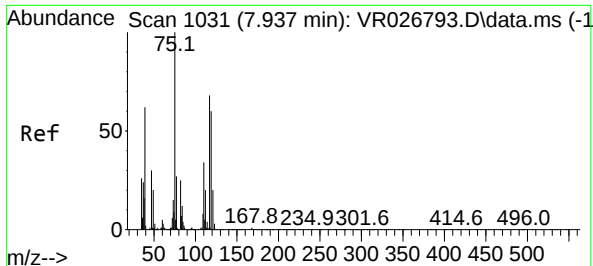
Ion Ratio Lower Upper

113 100

111 103.1 80.5 120.7

192 16.9 13.8 20.8

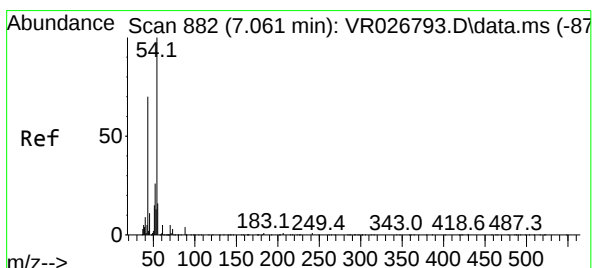
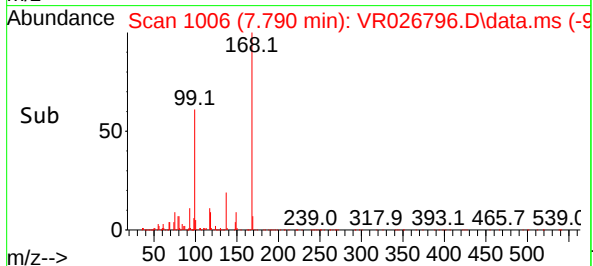
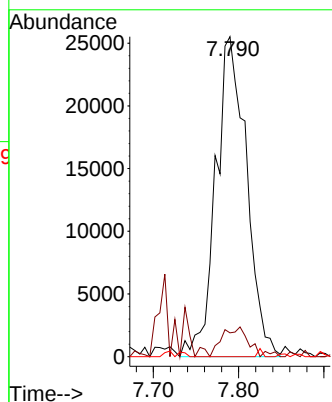
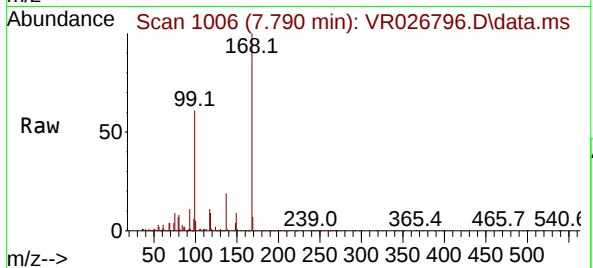




#36
1,1-Dichloropropene
Concen: 4.796 ug/l
RT: 7.790 min Scan# 1006
Delta R.T. -0.147 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

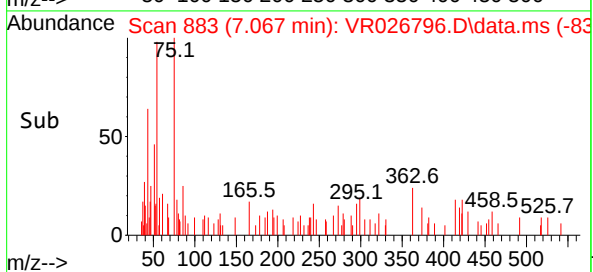
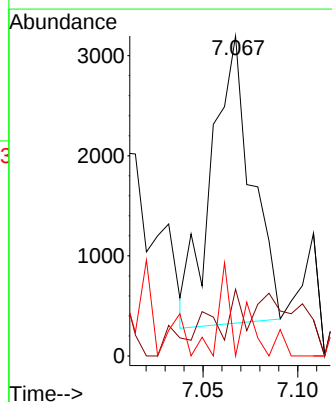
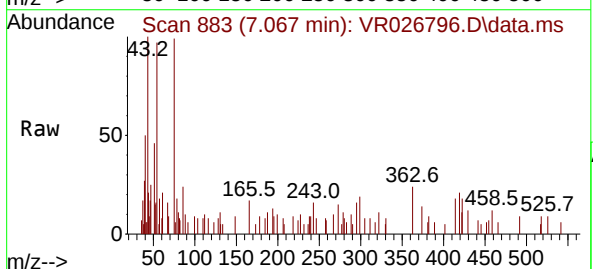
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

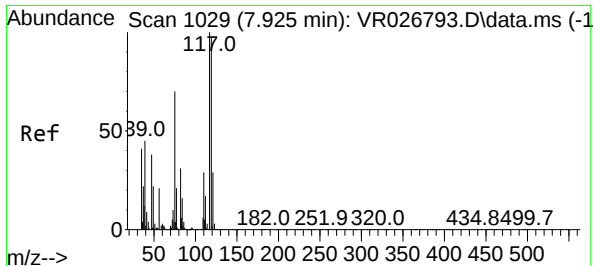
Tgt Ion: 75 Resp: 63936
Ion Ratio Lower Upper
75 100
110 8.3 17.5 52.6#
77 0.0 22.4 33.6#



#37
Ethyl Acetate
Concen: 0.611 ug/l
RT: 7.067 min Scan# 883
Delta R.T. 0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 43 Resp: 4207
Ion Ratio Lower Upper
43 100
61 7.7 12.0 18.0#
70 15.4 7.8 11.6#

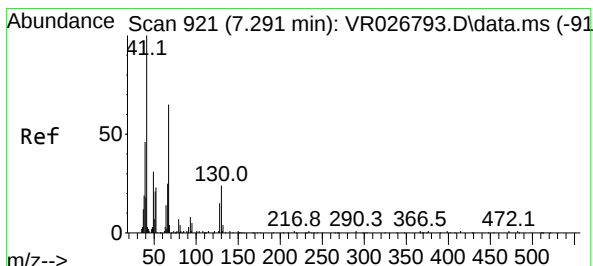
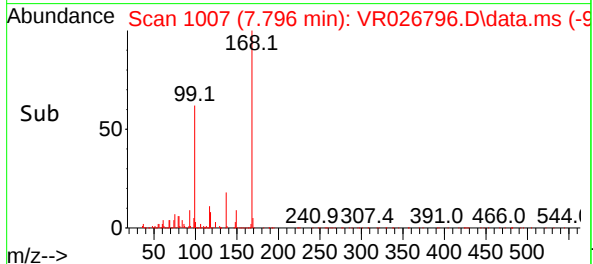
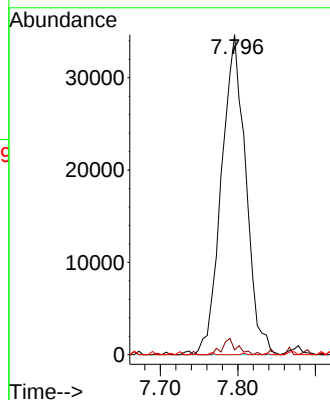
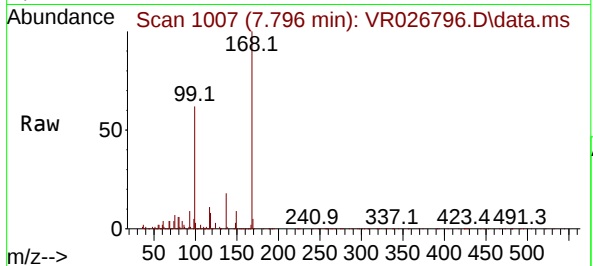




#38
Carbon Tetrachloride
Concen: 6.393 ug/l
RT: 7.796 min Scan# 1029
Delta R.T. -0.129 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

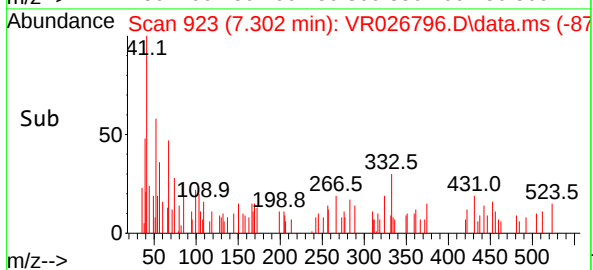
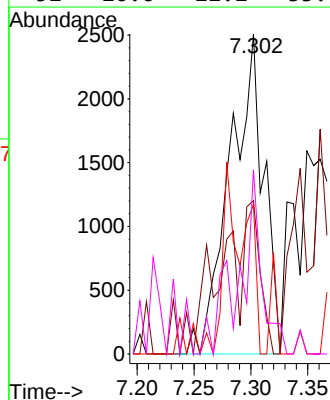
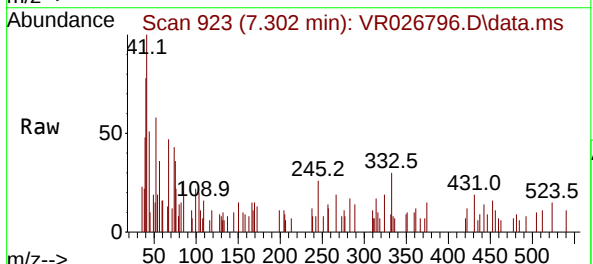
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

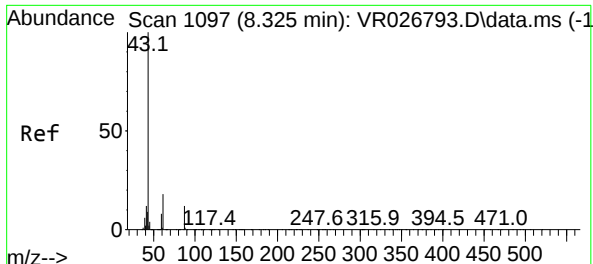
Tgt Ion:117 Resp: 75737
Ion Ratio Lower Upper
117 100
119 1.5 77.5 116.3#
121 0.0 23.4 35.2#



#41
Methacrylonitrile
Concen: 1.236 ug/l
RT: 7.302 min Scan# 923
Delta R.T. 0.011 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 41 Resp: 5159
Ion Ratio Lower Upper
41 100
39 22.4 40.4 60.6#
67 5.4 55.5 83.3#
52 26.6 22.2 33.4





#43

Isopropyl Acetate

Concen: 0.462 ug/l

RT: 8.336 min Scan# 1099

Delta R.T. 0.011 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

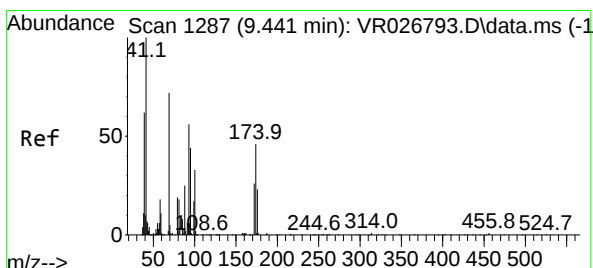
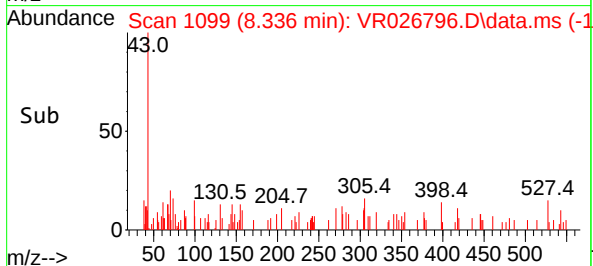
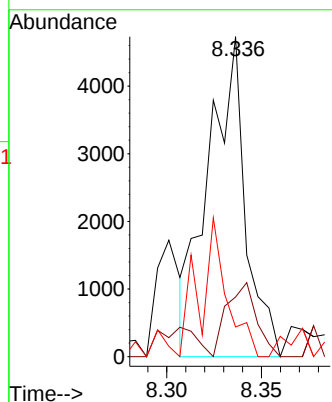
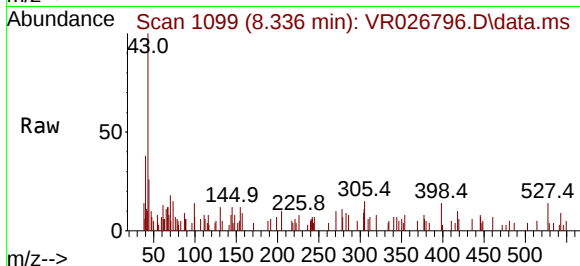
Instrument :

MSVOA_R

ClientSampleId :

VIBLK

Tgt Ion:	43	Resp:	6465
Ion	Ratio	Lower	Upper
43	100		
61	18.5	17.0	25.6
87	35.6	10.5	15.7#



#48

Methyl methacrylate

Concen: 0.210 ug/l

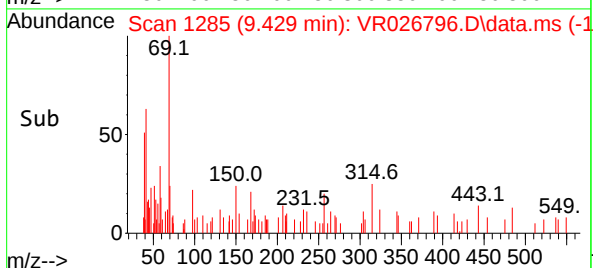
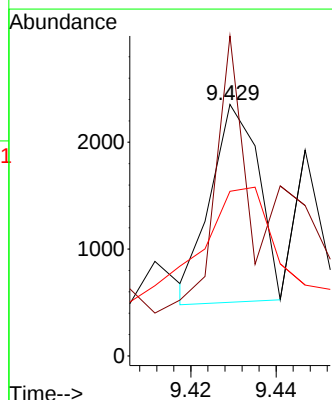
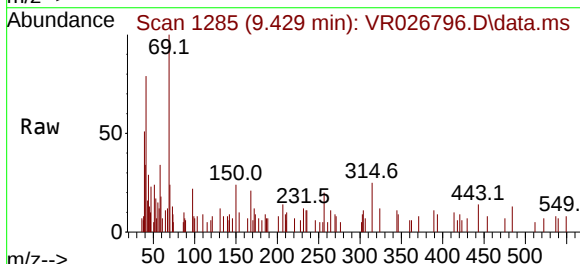
RT: 9.429 min Scan# 1285

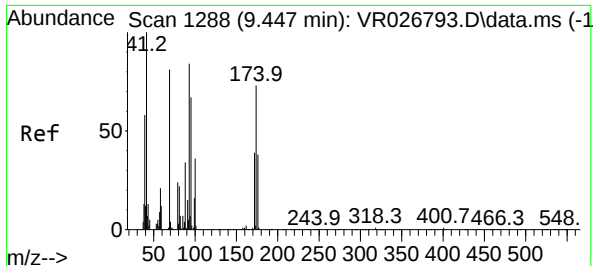
Delta R.T. -0.012 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Tgt Ion:	41	Resp:	1445
Ion	Ratio	Lower	Upper
41	100		
69	254.0	60.6	90.8#
39	207.0	48.2	72.2#

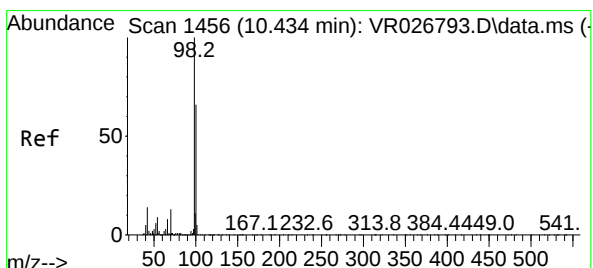
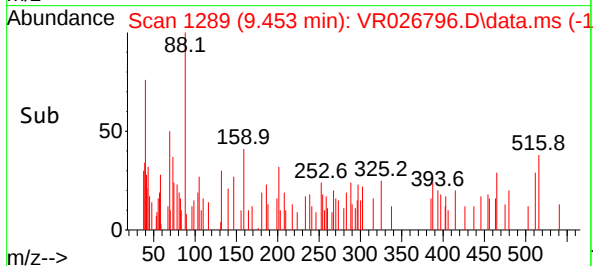
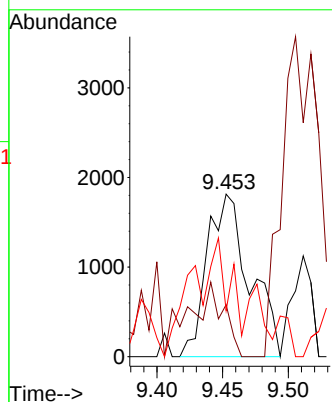
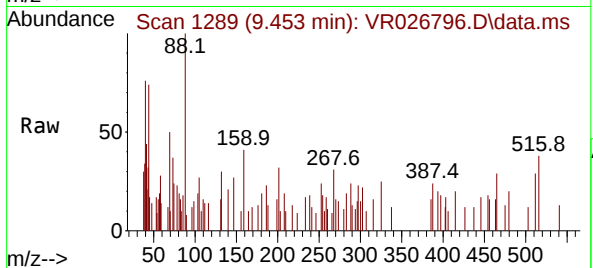




#49
1,4-Dioxane
Concen: 41.432 ug/l
RT: 9.453 min Scan# 11
Delta R.T. 0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

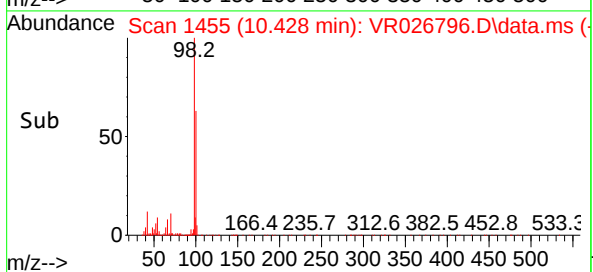
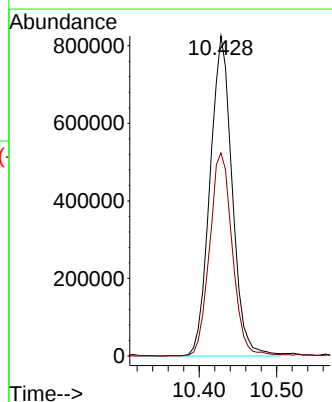
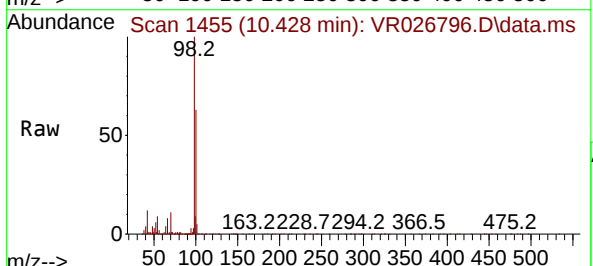
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

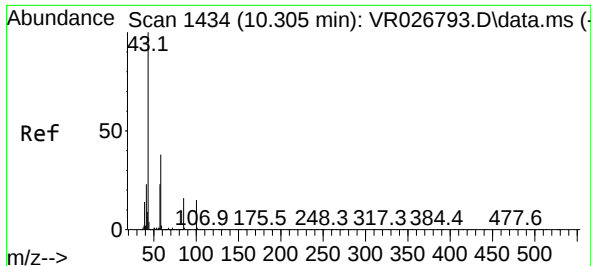
Tgt Ion: 88 Resp: 4084
Ion Ratio Lower Upper
88 100
43 30.2 14.1 21.1#
58 35.5 52.6 78.8#



#50
Toluene-d8
Concen: 48.269 ug/l
RT: 10.428 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 98 Resp: 1640975
Ion Ratio Lower Upper
98 100
100 64.9 53.8 80.6

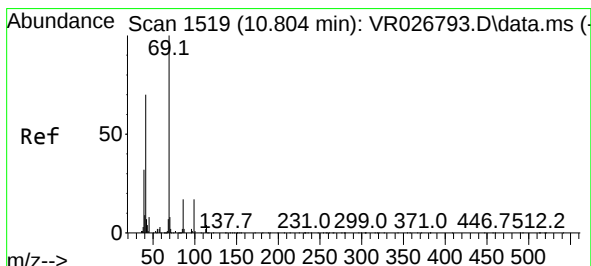
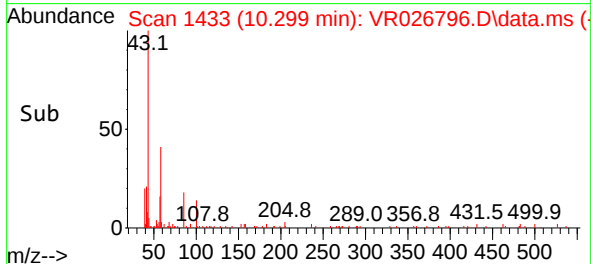
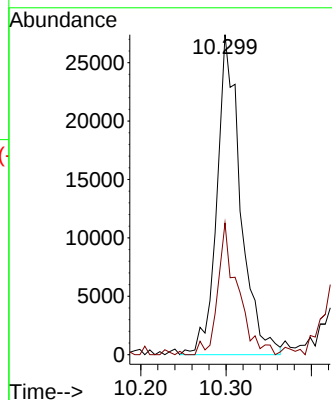
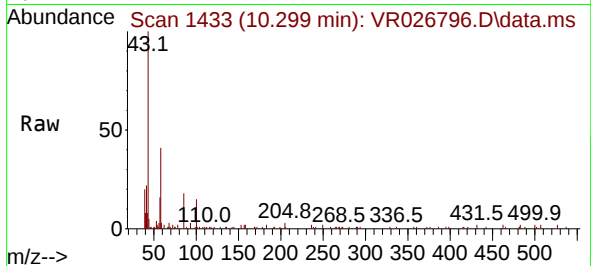




#51
4-Methyl-2-Pentanone
Concen: 7.089 ug/l
RT: 10.299 min Scan# 1433
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

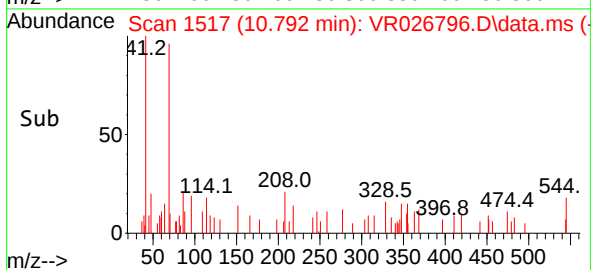
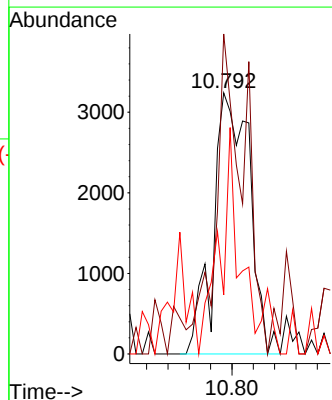
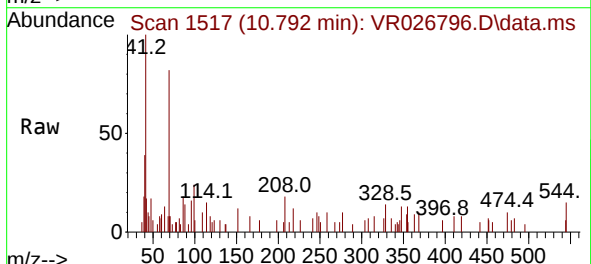
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

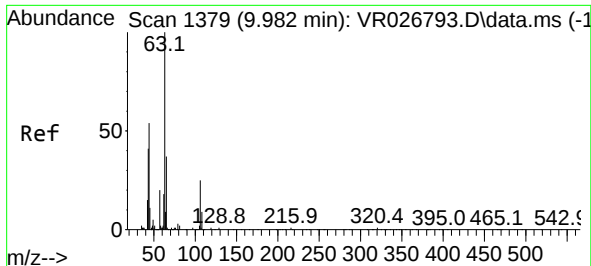
Tgt Ion: 43 Resp: 52734
Ion Ratio Lower Upper
43 100
58 34.5 31.1 46.7



#56
Ethyl methacrylate
Concen: 0.712 ug/l
RT: 10.792 min Scan# 1517
Delta R.T. -0.012 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 69 Resp: 7623
Ion Ratio Lower Upper
69 100
41 97.4 55.3 82.9#
39 47.7 33.7 50.5

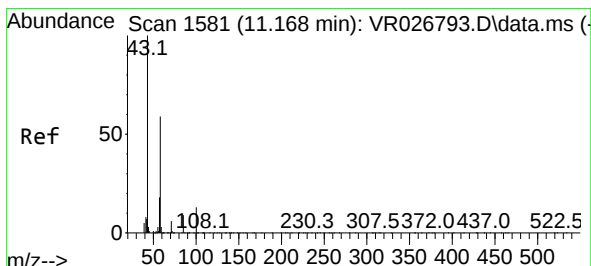
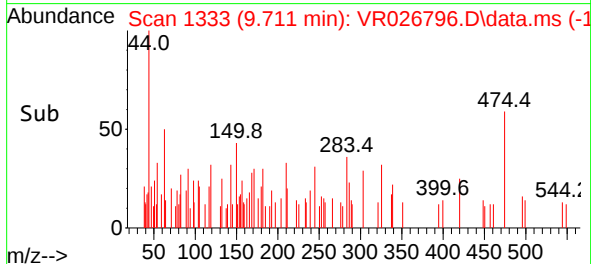
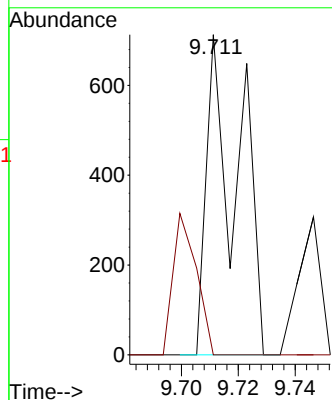
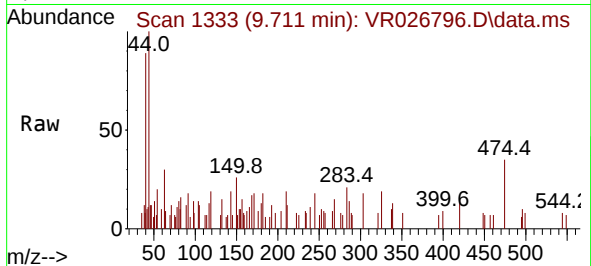




#58
2-Chloroethyl Vinyl ether
Concen: 0.854 ug/l
RT: 9.711 min Scan# 11
Delta R.T. -0.271 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

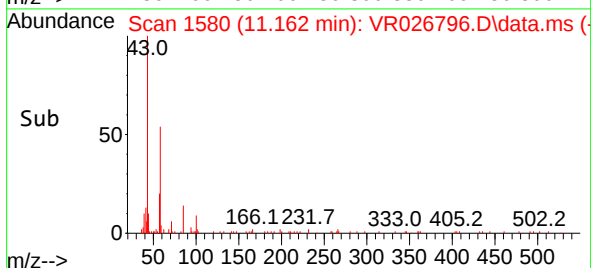
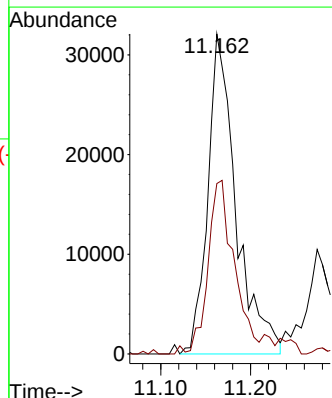
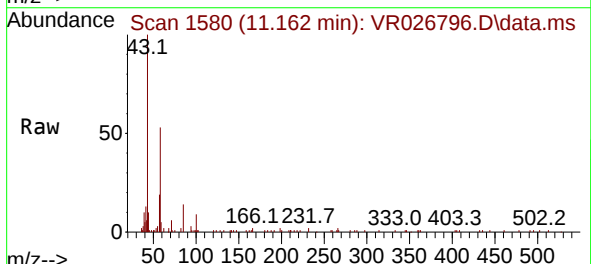
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

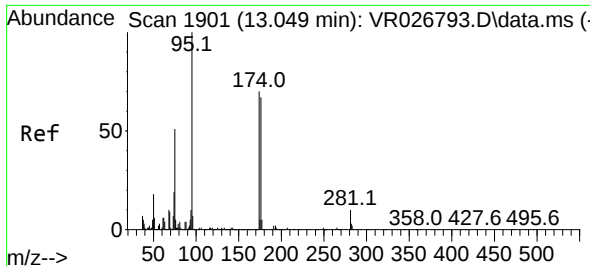
Tgt Ion: 63 Resp: 548
Ion Ratio Lower Upper
63 100
106 32.7 23.7 35.5



#59
2-Hexanone
Concen: 10.594 ug/l
RT: 11.162 min Scan# 1580
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 43 Resp: 69899
Ion Ratio Lower Upper
43 100
58 50.6 27.1 81.2

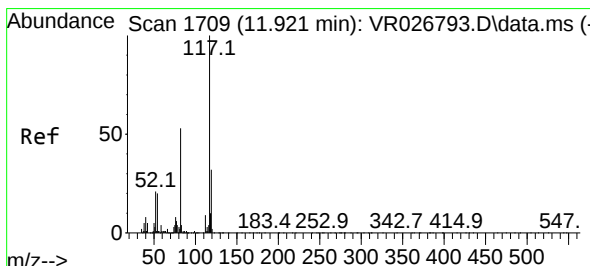
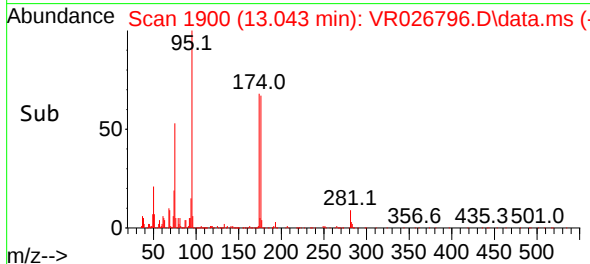
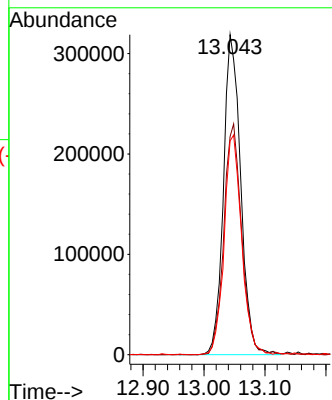
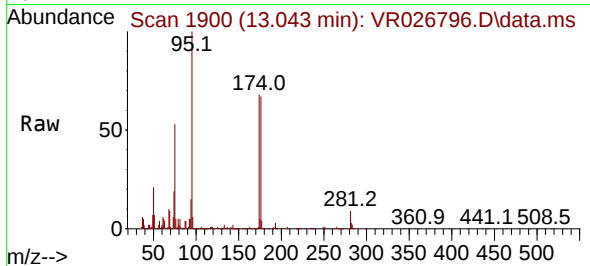




#62
4-Bromofluorobenzene
Concen: 47.886 ug/l
RT: 13.043 min Scan# 1901
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

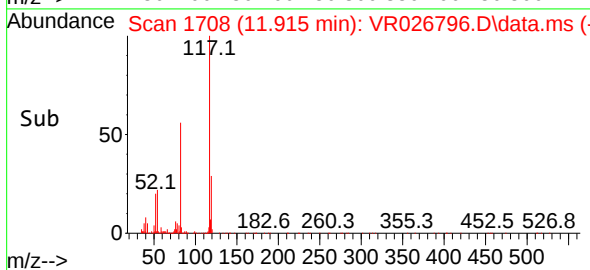
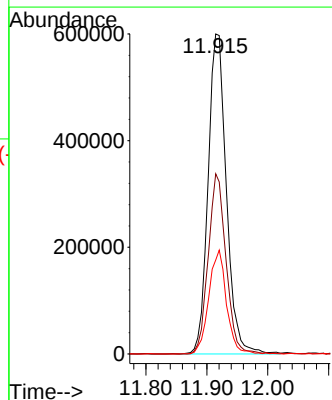
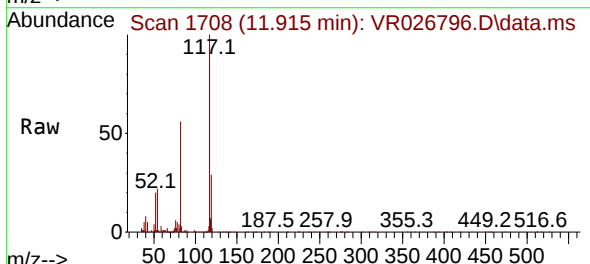
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

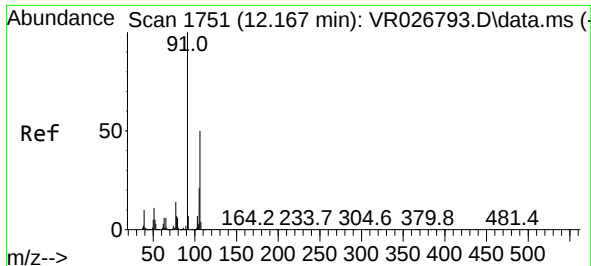
Tgt Ion: 95 Resp: 625679
Ion Ratio Lower Upper
95 100
174 74.4 0.0 145.6
176 70.0 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.915 min Scan# 1708
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 117 Resp: 1253402
Ion Ratio Lower Upper
117 100
82 56.3 42.3 63.5
119 29.4 25.8 38.6

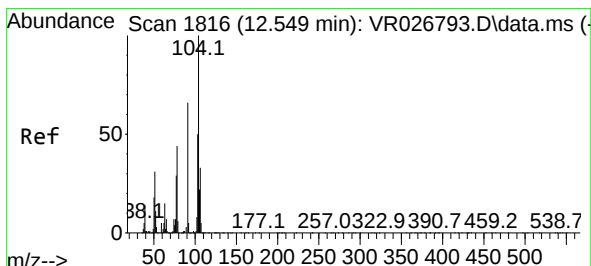
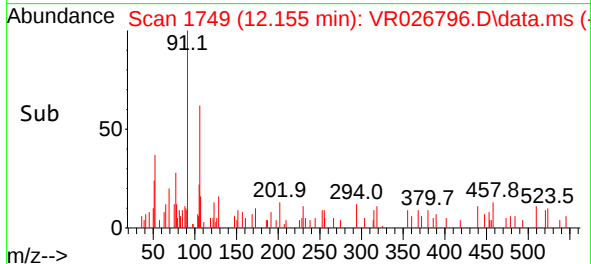
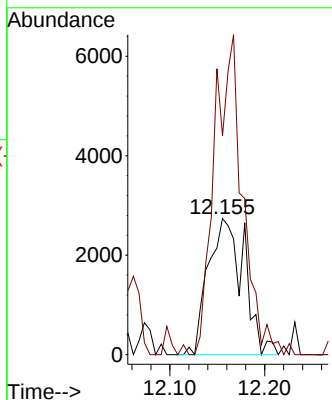
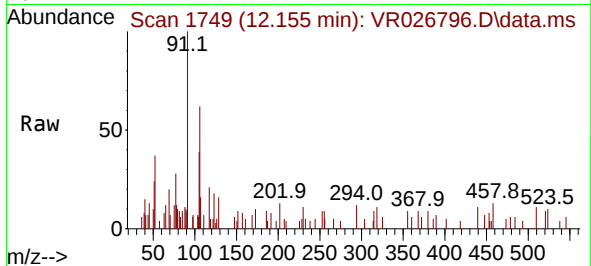




#68
m/p-Xylenes
Concen: 0.333 ug/l
RT: 12.155 min Scan# 1749
Delta R.T. -0.012 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

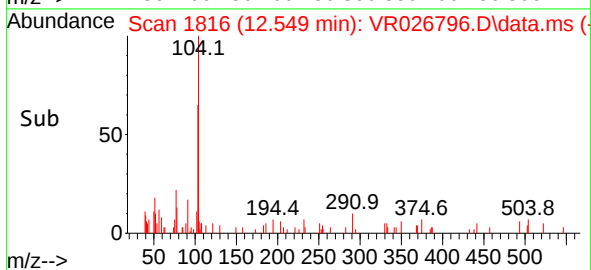
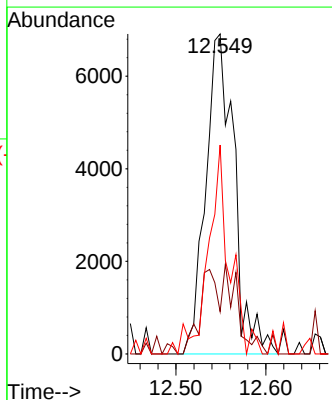
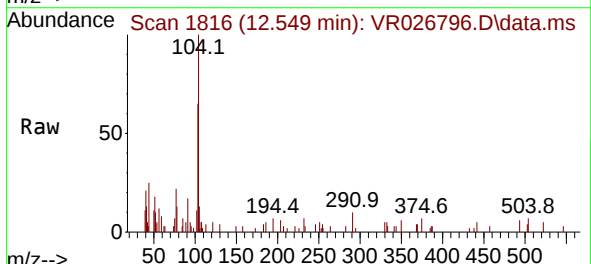
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

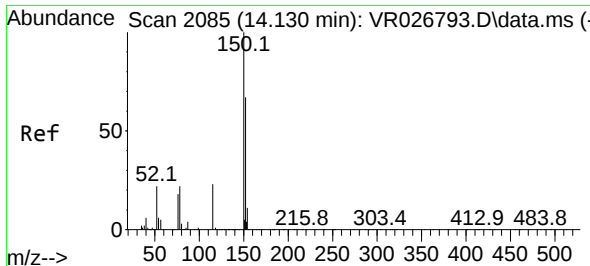
Tgt Ion:106 Resp: 7185
Ion Ratio Lower Upper
106 100
91 186.1 159.2 238.8



#70
Styrene
Concen: 0.428 ug/l
RT: 12.549 min Scan# 1816
Delta R.T. 0.000 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion:104 Resp: 15235
Ion Ratio Lower Upper
104 100
78 14.3 37.8 56.8#
103 46.4 43.3 64.9

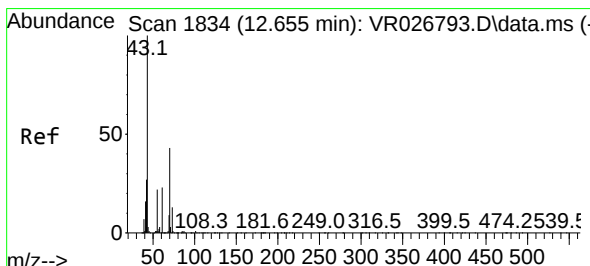
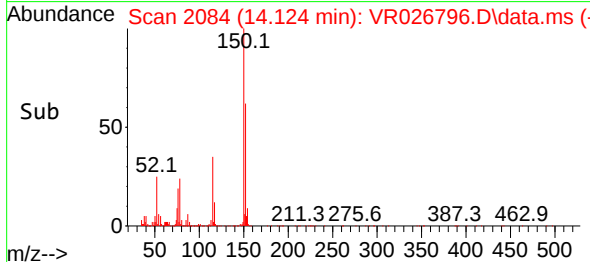
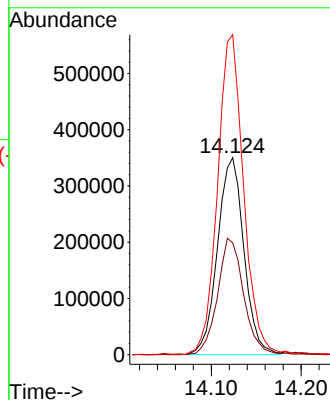
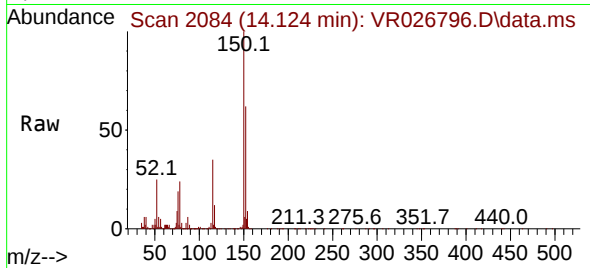




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.124 min Scan# 2085
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

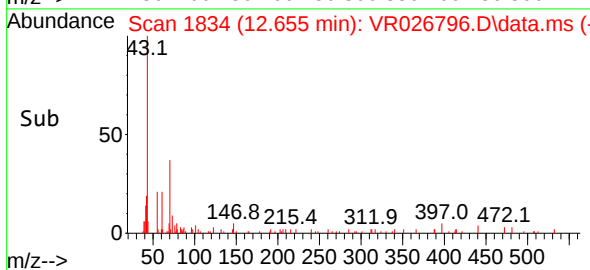
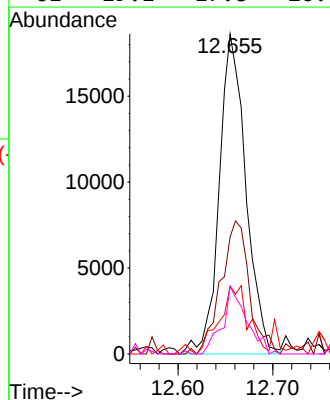
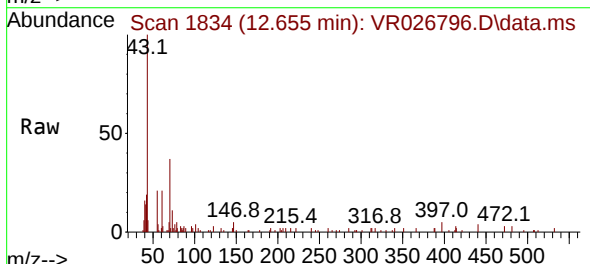
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

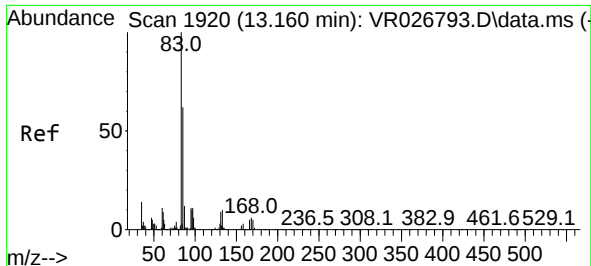
Tgt Ion:152 Resp: 714960
Ion Ratio Lower Upper
152 100
115 58.1 29.0 87.1
150 160.1 0.0 345.6



#74
N-ethyl acetate
Concen: 2.690 ug/l
RT: 12.655 min Scan# 1834
Delta R.T. -0.000 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 43 Resp: 36388
Ion Ratio Lower Upper
43 100
70 44.4 32.6 49.0
55 23.1 17.8 26.8
61 19.1 17.8 26.8

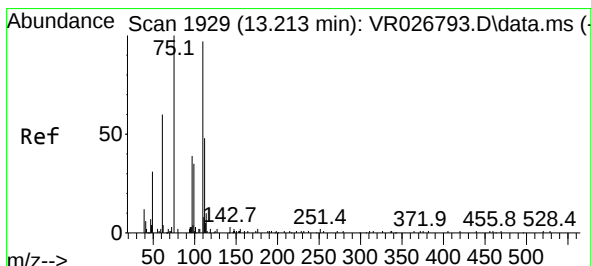
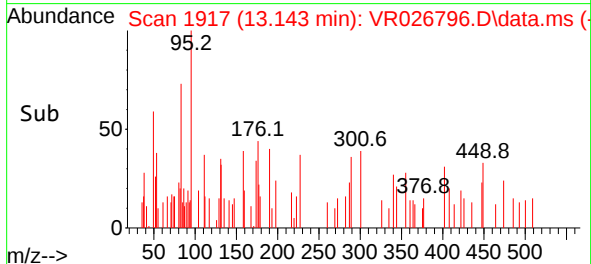
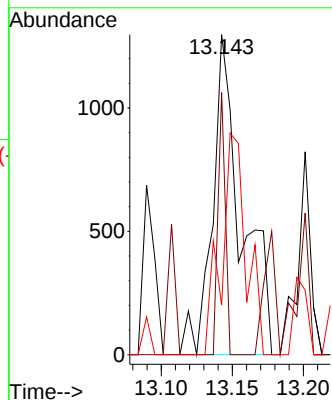
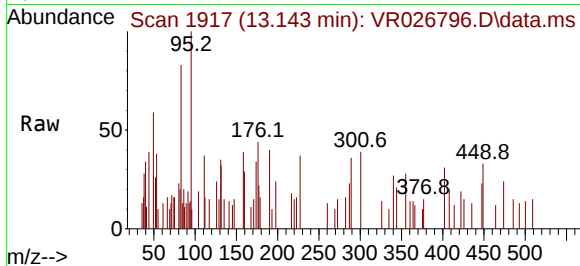




#75
1,1,2,2-Tetrachloroethane
Concen: 0.219 ug/l
RT: 13.143 min Scan# 1917
Delta R.T. -0.017 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

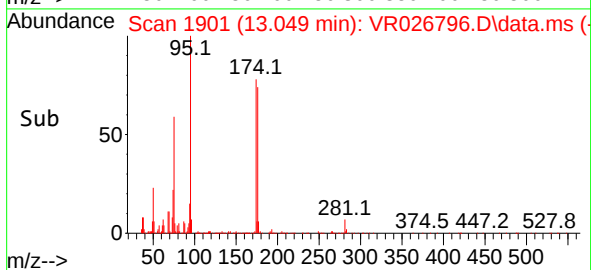
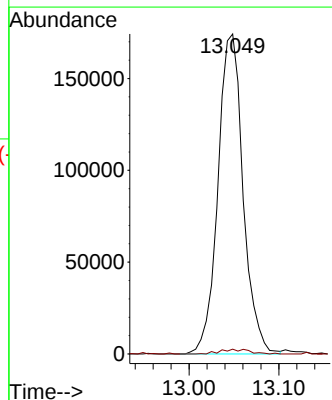
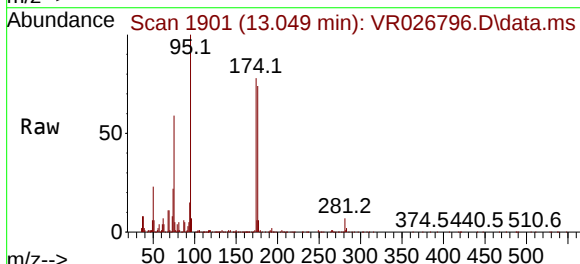
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

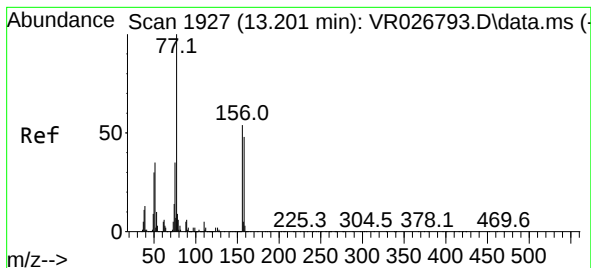
Tgt Ion: 83 Resp: 1830
Ion Ratio Lower Upper
83 100
131 20.4 4.5 13.5#
85 59.2 31.1 93.2



#76
1,2,3-Trichloropropane
Concen: 44.677 ug/l
RT: 13.049 min Scan# 1901
Delta R.T. -0.164 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 75 Resp: 338754
Ion Ratio Lower Upper
75 100
77 1.7 132.3 397.0#





#77

Bromobenzene

Concen: 0.430 ug/l

RT: 13.201 min Scan# 1927

Delta R.T. 0.000 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

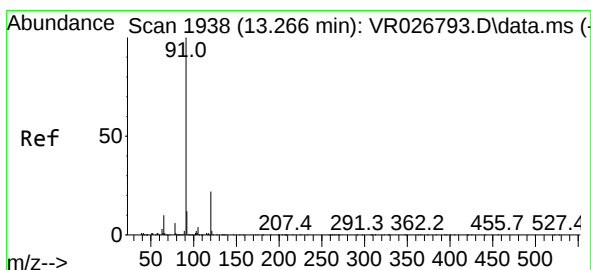
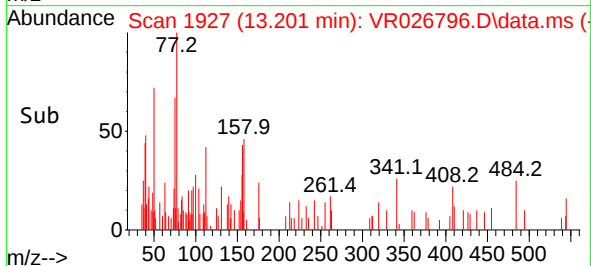
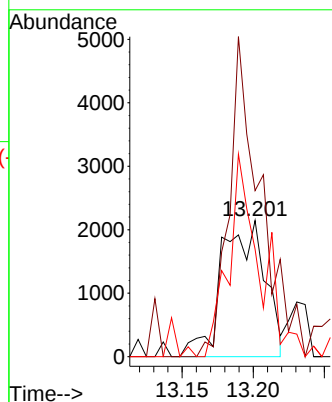
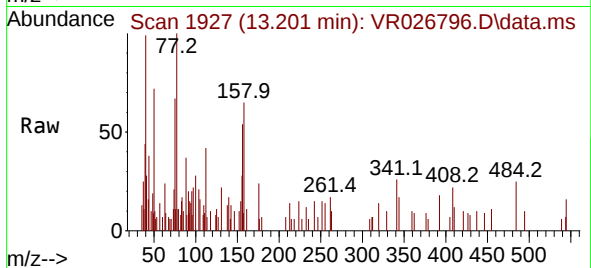
Tgt Ion:156 Resp: 4542

Ion Ratio Lower Upper

156 100

77 171.1 102.8 308.5

158 109.2 47.4 142.2



#78

n-propylbenzene

Concen: 0.418 ug/l

RT: 13.260 min Scan# 1937

Delta R.T. -0.006 min

Lab File: VR026796.D

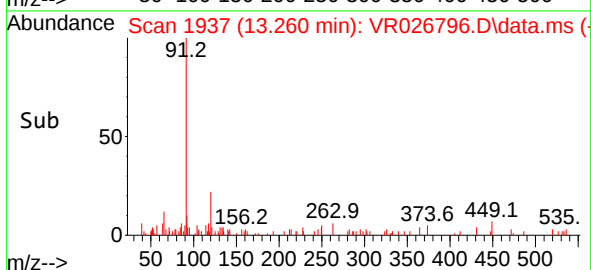
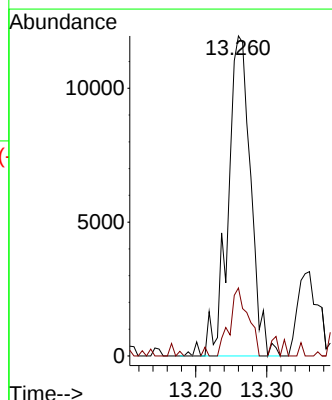
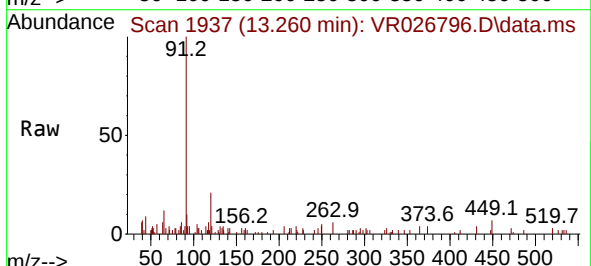
Acq: 4 Dec 2025 16:30

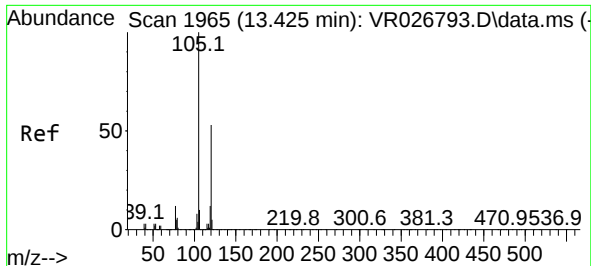
Tgt Ion: 91 Resp: 26614

Ion Ratio Lower Upper

91 100

120 17.2 11.1 33.1

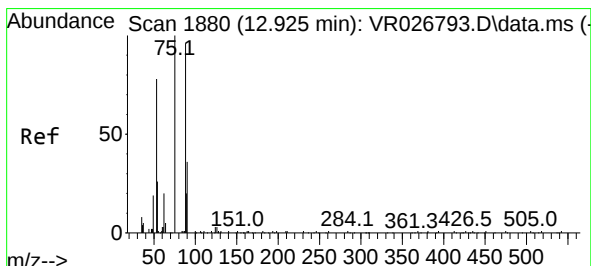
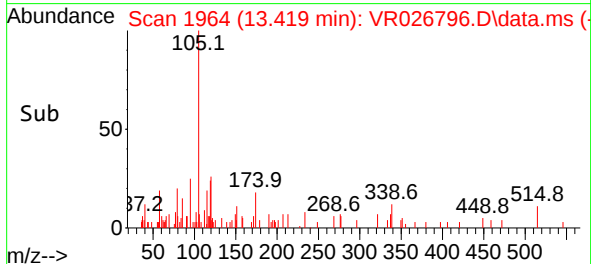
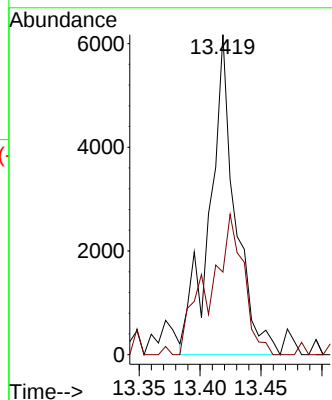
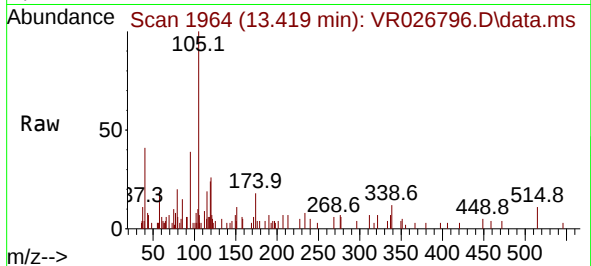




#80
1,3,5-Trimethylbenzene
Concen: 0.208 ug/l
RT: 13.419 min Scan# 1965
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

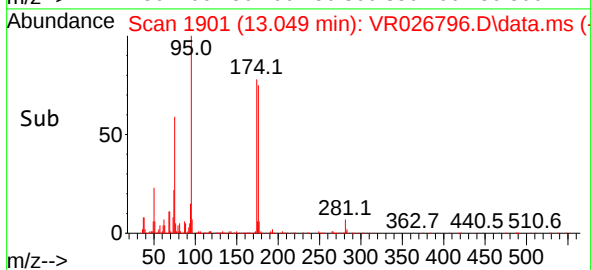
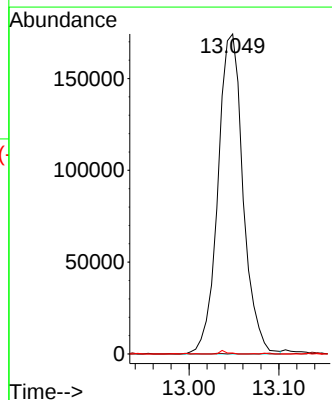
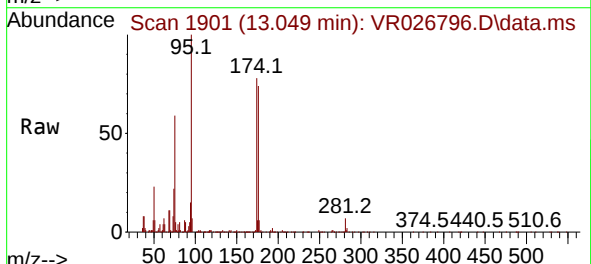
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

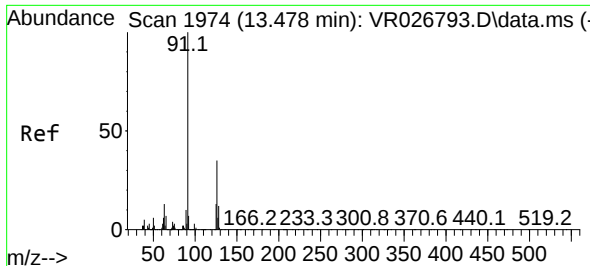
Tgt Ion:105 Resp: 8991
Ion Ratio Lower Upper
105 100
120 59.4 25.2 75.6



#81
trans-1,4-Dichloro-2-butene
Concen: 117.657 ug/l
RT: 13.049 min Scan# 1901
Delta R.T. 0.124 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 75 Resp: 338754
Ion Ratio Lower Upper
75 100
53 0.1 74.3 111.5#
89 0.3 35.9 53.9#

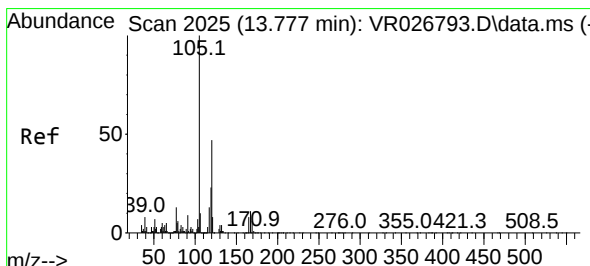
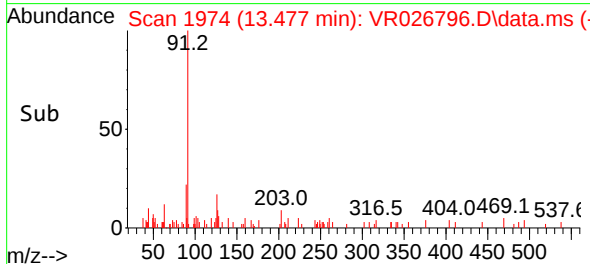
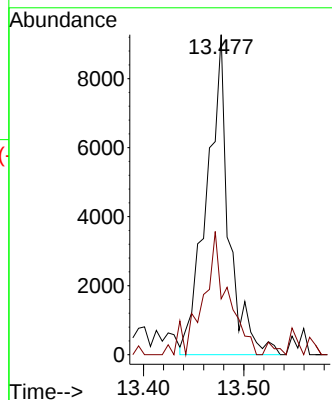
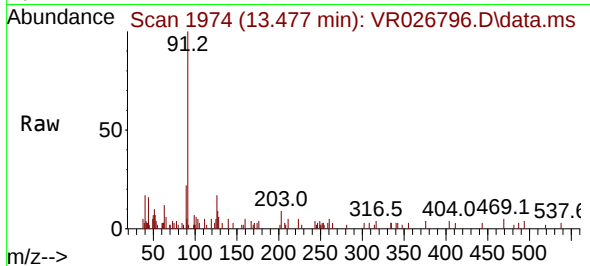




#82
4-Chlorotoluene
Concen: 0.381 ug/l
RT: 13.477 min Scan# 1974
Delta R.T. -0.001 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

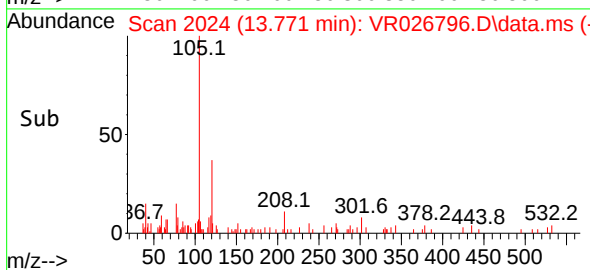
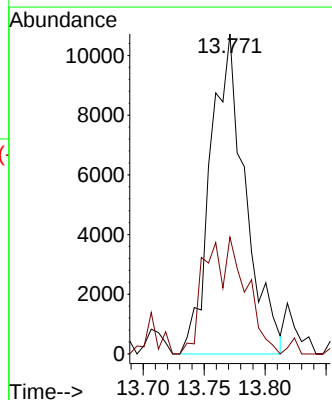
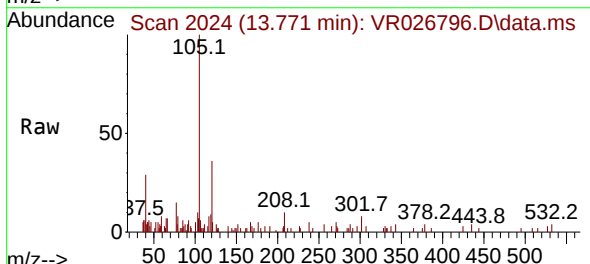
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

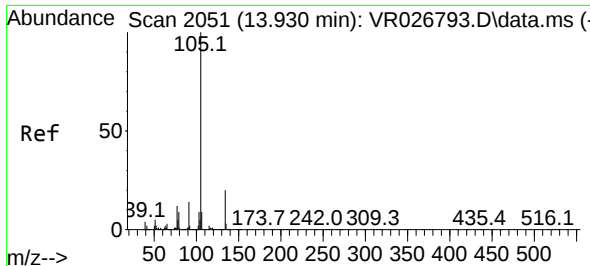
Tgt Ion: 91 Resp: 14245
Ion Ratio Lower Upper
91 100
126 43.4 16.7 50.0



#84
1,2,4-Trimethylbenzene
Concen: 0.458 ug/l
RT: 13.771 min Scan# 2024
Delta R.T. -0.006 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 105 Resp: 21211
Ion Ratio Lower Upper
105 100
120 21.5 23.7 71.1#

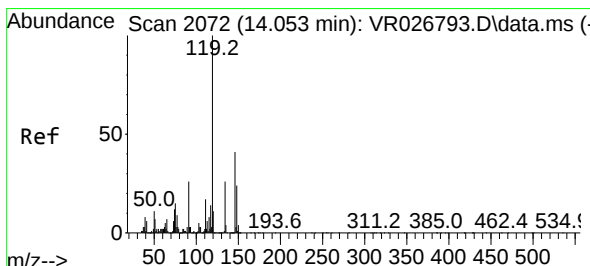
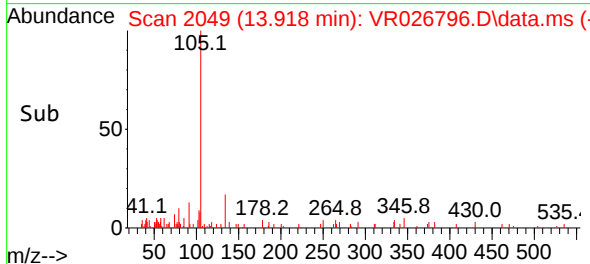
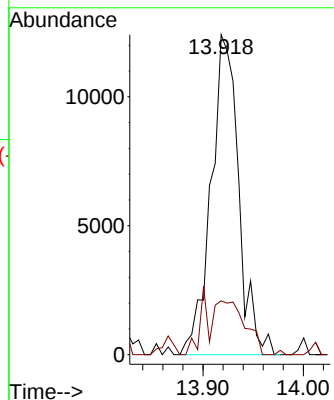
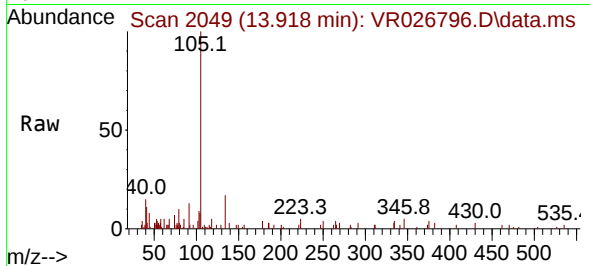




#85
 sec-Butylbenzene
 Concen: 0.386 ug/l
 RT: 13.918 min Scan# 2049
 Delta R.T. -0.012 min
 Lab File: VR026796.D
 Acq: 4 Dec 2025 16:30

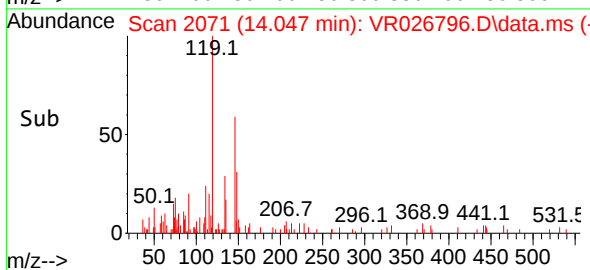
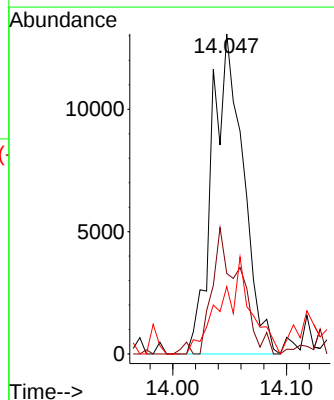
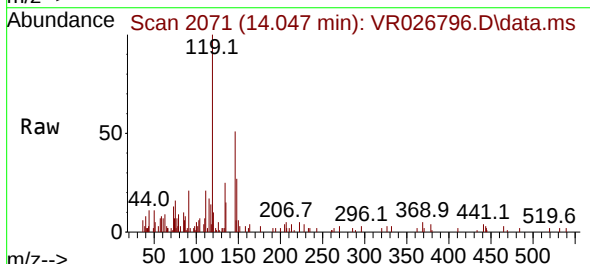
Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

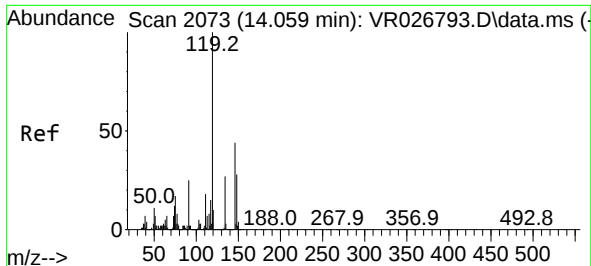
Tgt Ion:105 Resp: 23692
 Ion Ratio Lower Upper
 105 100
 134 18.8 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 0.463 ug/l
 RT: 14.047 min Scan# 2071
 Delta R.T. -0.006 min
 Lab File: VR026796.D
 Acq: 4 Dec 2025 16:30

Tgt Ion:119 Resp: 25030
 Ion Ratio Lower Upper
 119 100
 134 35.3 13.3 39.9
 91 29.0 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 0.533 ug/l

RT: 14.047 min Scan# 2071

Delta R.T. -0.012 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

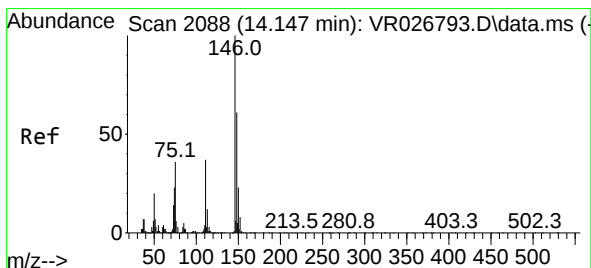
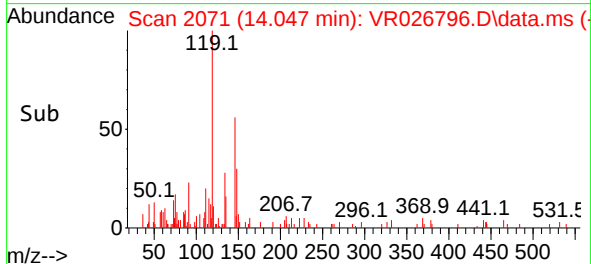
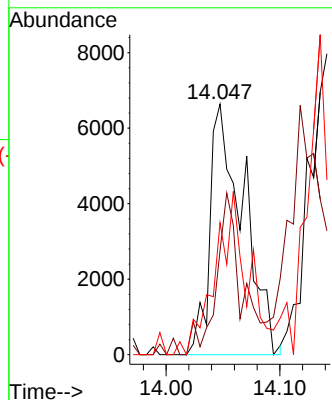
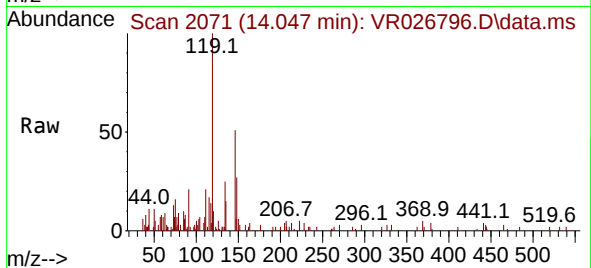
Tgt Ion:146 Resp: 13627

Ion Ratio Lower Upper

146 100

111 47.2 20.8 62.2

148 62.9 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.505 ug/l

RT: 14.047 min Scan# 2071

Delta R.T. -0.100 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

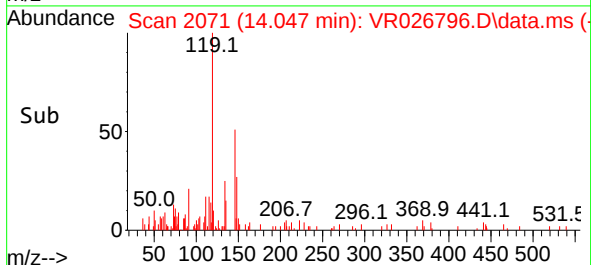
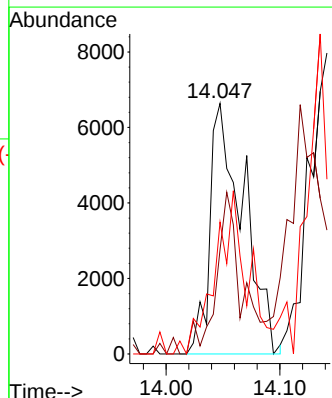
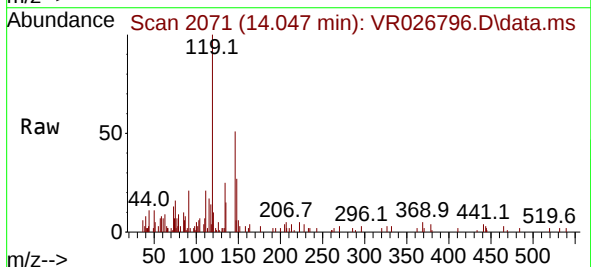
Tgt Ion:146 Resp: 13627

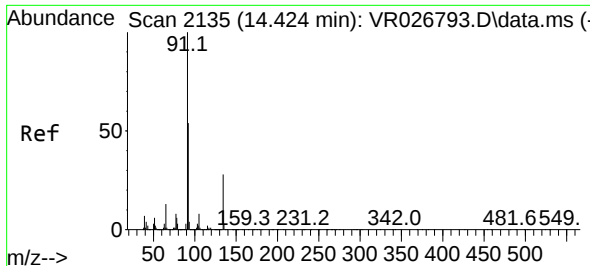
Ion Ratio Lower Upper

146 100

111 47.2 19.6 58.8

148 62.9 31.3 93.9

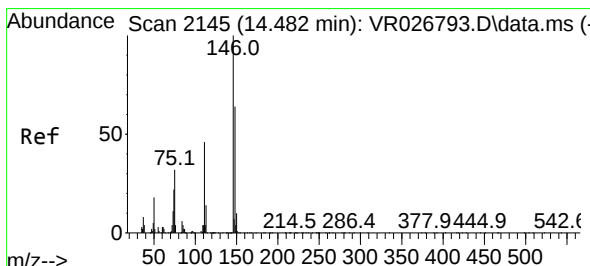
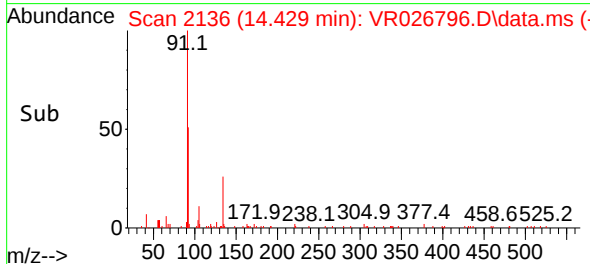
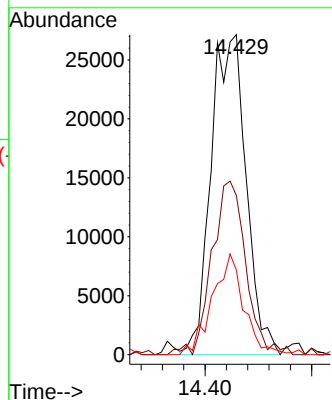
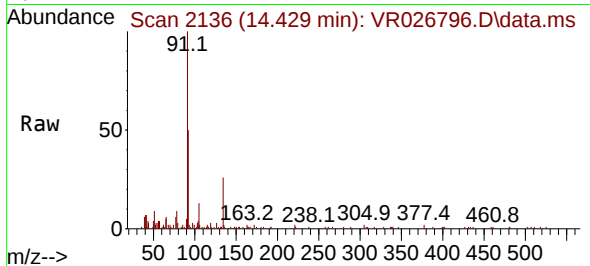




#89
n-Butylbenzene
Concen: 1.117 ug/l
RT: 14.429 min Scan# 2135
Delta R.T. 0.005 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

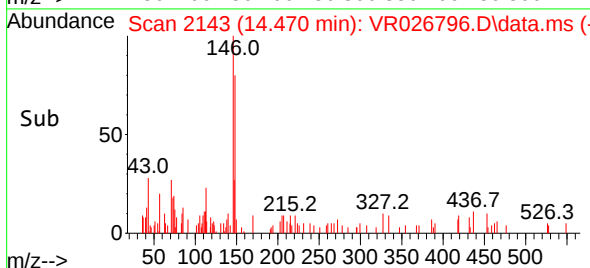
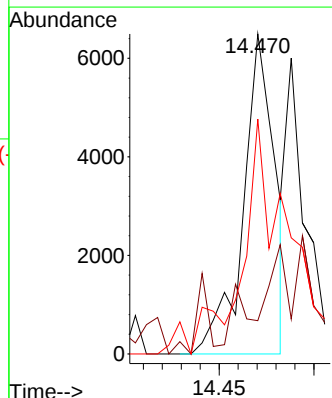
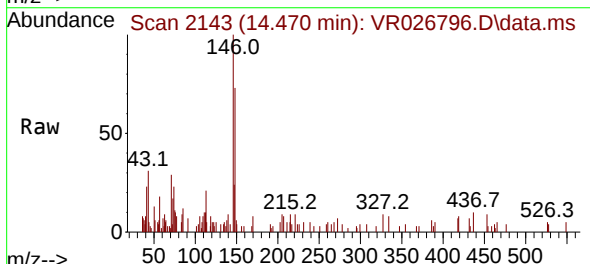
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

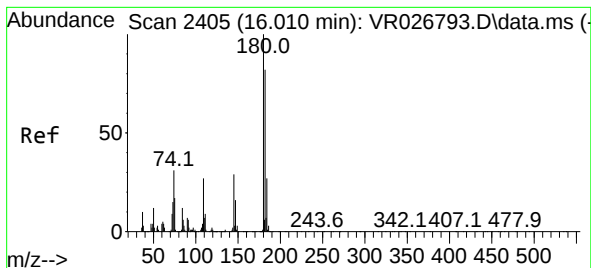
Tgt Ion: 91 Resp: 62190
Ion Ratio Lower Upper
91 100
92 52.0 26.7 80.1
134 28.2 12.9 38.7



#91
1,2-Dichlorobenzene
Concen: 0.318 ug/l
RT: 14.470 min Scan# 2143
Delta R.T. -0.012 min
Lab File: VR026796.D
Acq: 4 Dec 2025 16:30

Tgt Ion: 146 Resp: 7470
Ion Ratio Lower Upper
146 100
111 10.8 20.5 61.6#
148 111.8 31.5 94.5#





#93

1,2,4-Trichlorobenzene

Concen: 0.805 ug/l

RT: 15.992 min Scan# 2405

Delta R.T. -0.018 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

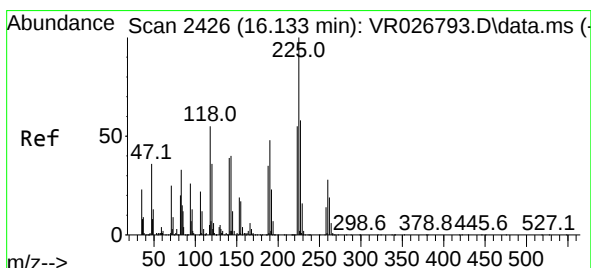
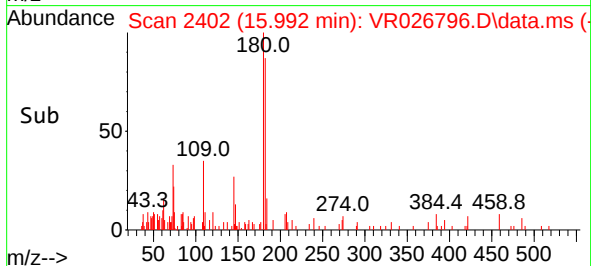
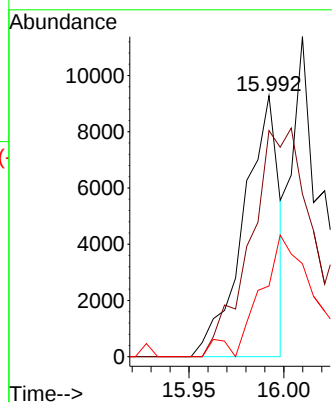
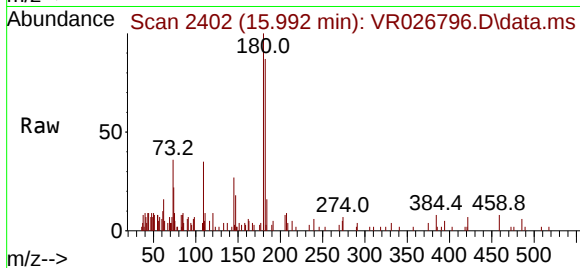
Tgt Ion:180 Resp: 12133

Ion Ratio Lower Upper

180 100

182 168.3 46.4 139.2#

145 69.6 16.1 48.2#



#94

Hexachlorobutadiene

Concen: 0.257 ug/l

RT: 16.116 min Scan# 2423

Delta R.T. -0.017 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

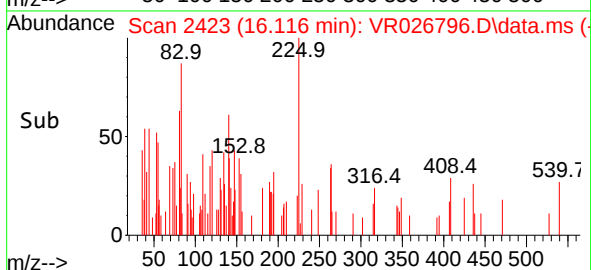
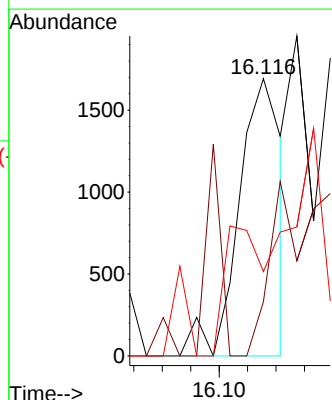
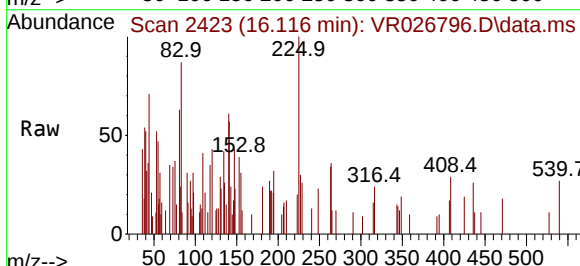
Tgt Ion:225 Resp: 1789

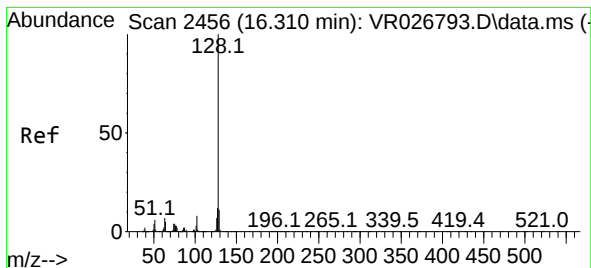
Ion Ratio Lower Upper

225 100

223 100.4 30.3 91.0#

227 92.8 32.3 96.9





#95

Naphthalene

Concen: 7.400 ug/l

RT: 16.304 min Scan# 2456

Delta R.T. -0.006 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

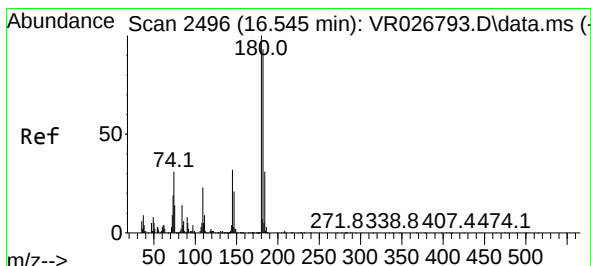
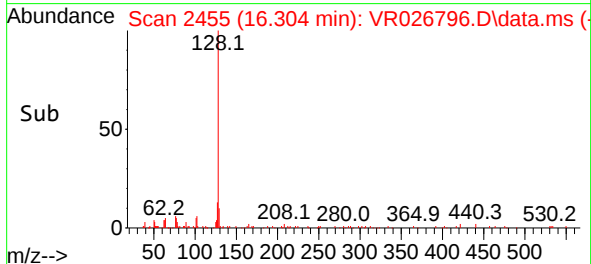
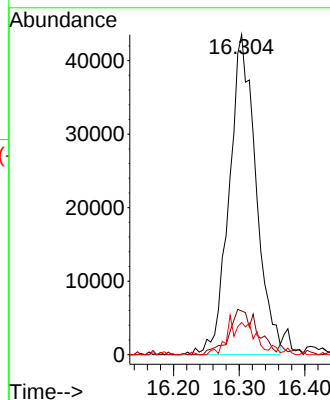
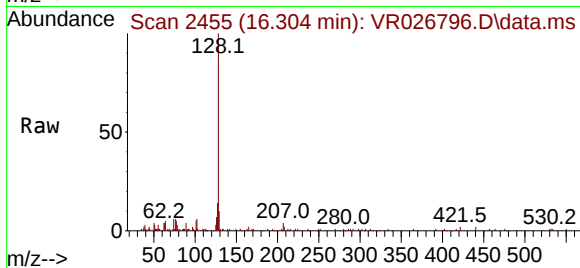
Tgt Ion:128 Resp: 123195

Ion Ratio Lower Upper

128 100

127 14.8 10.2 15.2

129 5.1 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 2.184 ug/l

RT: 16.544 min Scan# 2496

Delta R.T. -0.001 min

Lab File: VR026796.D

Acq: 4 Dec 2025 16:30

Tgt Ion:180 Resp: 27986

Ion Ratio Lower Upper

180 100

182 91.8 48.2 144.6

145 30.8 16.4 49.2

